

Southwark Streetscape **Design Manual Materials Palette**



Contents

1	Introduction	2
2	Regulating Plan	2
	General Specification Area	
	General Area Surfacing Materials PaletteGeneral Area Street Furniture Palette	
4	Town Centre Specification Area	36
4.1	Town Centre Surfacing Materials Palette	37
5	Heritage Specification Area	64
5.1	Heritage Area Surfacing Materials Palette	65
6	World Centre Specification Area	92
6.1	World Centre- Option A - Surfacing Materials Palette	93
		120
7	Docks Specification Area1	46
	Docks Area Surfacing Materials Palette	
8	Village Specification Area 1	61
	Village Area Surfacing Materials Palette	
А р	pendix 1 Regulating Plan	179



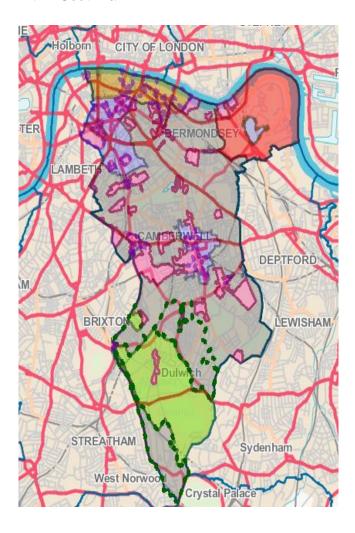


1 Introduction

The purpose of this Material Palette is to promote the consistent improvement of Southwark's streets and open spaces. It aims to achieve attractive, safe and accessible streets by setting out guidelines and specifications for materials, as well as complimenting the character and streetscape of the different areas in Southwark.

2 Regulating Plan

The Regulating Plan defines the basic default palettes of materials and street furniture for Southwark. They have been grouped according to their suitability for the different character areas within Southwark.



A live, on-line version of the Regulating Plan can found in the **SSDM** be pages www.southwark.gov.uk. This can be used to zoom in to identify individual streets and properties when proposing а scheme. Alternatively a larger foldout plan is included in Appendix 1 for quick reference.

There are six character areas:

- General Any area not in one of the other Specification Area designations.
- Docks Rotherhithe ward and Surrey Docks ward (as defined by their constitutional boundaries at the time of publishing).
- Village "conservation area" designations established under the Planning (Listed Buildings and Conservation Areas) Act 1990 by the council acting as Local Planning Authority that are within Dulwich Community Council area (as defined by its constitutional boundaries at the time of publishing), with the exception of the following:
- Heritage "conservation area" designation established under the Planning (Listed Buildings and Conservation Areas) Act 1990 by the council acting as Local Planning Authority, excluding areas within Dulwich which fall within the "Village" Specification Area designation.
- Town Centre "major town centre", "district town centre" and "local centre" policy designation boundaries defined within the adopted Local Development Framework Proposals Map.
- World Centre the "strategic cultural area" policy designation boundaries defined within the adopted Local Development Framework Proposals Map.

It is important to note that the requirement to comply with palettes linked to Regulating Plan designations does not currently apply to streets in Southwark that are not part of the Highway for which Southwark Council is the Highway Authority. As such parks, many estate roads and roads controlled by Transport for London are exempt. However, in the event that such roads are required for any reason to be constructed to the adoptable standards of the Council acting as Highway Authority (e.g. by requirement of a Planning Condition or Obligation) then the palette requirements for the relevant Regulating Plan designations shall apply.



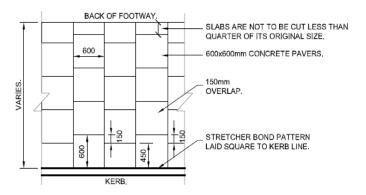
3 General Specification Area

In the General Specification areas of Southwark, the carriageways are bituminous, the footway is a single type of flag paving (including the plateaus of vehicle accesses) and a single type of block paver used to raised tables, cycle tracks, inset parking bays and the plateaus of heavily used vehicle accesses.

The standard flag is grey, dimensions: 600 x 600 x 72mm. Steel reinforced slabs are required in heavy overrun areas. Where the overrun is expected to be light, then the reinforcement can be dropped and the slab thickness reduced from 72mm to 63mm. The 50mm thick option is not used in Southwark.



Flags are laid to BS 7533-4:1998 Installation.



It may be permissible to utilise fibre reinforced concrete paving flags for heavy vehicle overrun areas as an alternative to the steel reinforced flags.

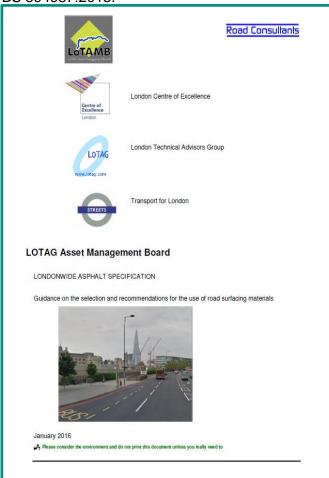
The standard block paver is 200x100x80mm mid grey colour. Where used in speed table ramps, they are laid bound in a stretcher bond perpendicular to the dominant carriageway edge.

Block pavers are laid to BS EN 1338:2003.



Alternative footway surfacing options are described in the Southwark Materials Palette. However, a level 1 departure will be required to use them instead of the preferred materials unless they are replacing like for like.

Carriageways are bituminous and the design is to the London Asphalt Specification and laid to BS 594987:2015.



The pavement design will depend on the traffic volume and the stiffness of the underlying formation (generally expressed as the CBR or *California Bearing Ratio*). See drawing LBS/700/10 for different standard pavement designs.





In General or Heritage areas any precast concrete kerb is to be replaced with granite kerbstone laid with a narrow top face (150mm wide).



It is important to retain and match the wide kerbs where they exist. Kerbs can be worked to specific radii, but standard radii stock should be used normally to avoid mistakes.



In all other areas 300mm wide granite kerbs are preferred between the footway and the carriageway.

Appearance: the colour, veining, texture, etc. of any natural stone shall be identified visually, typically by a reference sample of the same stone suitable for providing a general description of visual appearance. A reference sample shall be provided by the supplier of the stone according to BS EN 1341:2012.

A reference sample shall be an adequate number of pieces (typically three pieces) of natural stone of sufficient size to indicate the general appearance of the finished work. The dimensions of individual pieces shall be at around 300mm by 300mm and shall indicate the range of appearance regarding the colouring, the vein pattern, the physical structure and the surface finish. In particular the reference sample shall show specific characteristics of the stone, such as typical holes, glass seams, spots, crystalline veins and rusty spots. The reference sample does not imply strict uniformity between the sample itself and the actual supply; natural variations may always occur. If the processing of the stone involves the use of patching, fillers or other similar products for natural holes, faults or cracks, then the reference sample shall similarly display the impact of the same on the finished surface. All the characteristics as shown by the reference sample shall be considered typical of the stone and not as flaws, therefore they shall not become a reason for rejection, unless their concentration becomes excessive and the typical character of the stone is lost.

The name and address of the manufacturer or the supplier of the stone, as well as the denomination of the stone in accordance with Section 4.1 of BS EN 1341:2012 and/or information on the treatment in accordance with section 4.1.2 or the above standard shall be indicated on the reference sample. Any comparison between production sample and reference sample shall be carried out by placing the reference sample against the production samples and viewing them at a distance of about 2m under normal daylight conditions and recording any visible differences in the characteristics of the stones.



3.1	General Area Surfacing Materials Palette			
Heavy	Precast concrete		Dimensions	600mm wide x 600mm long x 70 or 72mm thick
overrun	paving slab,		Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L)
footway	pimple finish,		Upper arris	BS EN 1339:2003 Square with no bevel or beading
	grey, steel		Lower arris	BS EN 1339:2003 Square with no bevel or beading
	reinforced to BS		Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency
	EN 1339:2003		Appearance	No exposed aggregate in upper face
	600x600x70mm F-PC-B1(70)		Texture	Pimple textured upper face
	1-6-61(70)		Breaking load	BS EN 1339:2003 Class 140(14).≥ 20.65 KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering resistance	BS EN 1339:2003 Class 3(D)
			Special requirements	Units to be steel reinforced to reduce fragmentation in case of failure
			Method of manufacture	Units may be single layer or two-layer press with separate facing layer
	Precast concrete	The state of the s	Dimensions	600mm wide x 600mm long x 70mm thick
	paving slab,	V	Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L)
	pimple finish,		Upper arris	BS EN 1339:2003 Square with no bevel or beading
	grey, fibre		Lower arris	BS EN 1339:2003 Square with no bevel or beading
	reinforced to BS EN 1339:2003 600x600x70mm F-PC-B2(70)		Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency
			Appearance	No exposed aggregate in upper face
			Texture	Pimple textured upper face
	1-1 0-52(70)		Breaking load	BS EN 1339:2003 Class 140(14).≥ 15.1 KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering resistance	BS EN 1339:2003 Class 3(D)
			Special requirements	Units to be fibre reinforced to reduce fragmentation in case of failure
			Method of manufacture	Units may be single layer or two-layer press with separate facing layer
Light	Precast concrete		Dimensions	600mm wide x 600mm long x 63 or 65mm thick
overrun	paving slab,		Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L)
footway	pimple finish,		Upper arris	BS EN 1339:2003 Square with no bevel or beading
	grey, to BS EN	1	Lower arris	BS EN 1339:2003 Square with no bevel or beading
	1339:2003 600x600x63mm	() () () () () () () ()	Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency
	F-PC-B1(63)		Appearance	No exposed aggregate in upper face
	1 - F G-B 1(03)		Texture	Pimple textured upper face
			Breaking load	BS EN 1339:2003 Class 140(14).≥ 15.1 KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering resistance	BS EN 1339:2003 Class 3(D)
			Method of manufacture	Units may be single layer or two-layer press with separate facing layer



Footway Trim or	Precast concrete blocks – with		Dimensions	100mm wide x 200mm long x 80mm thick. Pencil chamfered division groove across width of upper face to divide into two 100 x 100mm areas
edging	face division, light grey to BS EN 1338:2003		Upper arris	BS EN 1338:2003 Chamfered (pencil chamfered) ≤ 1.5mm vertical chamfer dimension, ≤ 2.5mm horizontal chamfer dimension. Chamfer to be flat as moulded with no further texturisation
	200x100x80mm B-PC(80)-B2a		Lower arris	BS EN 1338:2003 Square
	B 1 0(00) B2a		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
		For use in all	Colour	Facing layer: light grey to Munsell colour 7.5YR 8.25/0.5. bed face and sides beneath facing layer: generic grey
		circumstances	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
		except those specified below.	Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
		specified below.	Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw resistance	
			Method of manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.
	Granite cube 80x80x80mm	For use as part of	Dimensions	80mm wide x 80mm long x 80mm thick (8/8/8 designation). For laying in stretcher bond or stack bond.
	grey to BS EN 1342:2012 B-NS-G2(80)- CR/STR		Tolerances	Normal plan dimensions and thickness, undercut of sides and deviations on face irregularity to BS EN 1342:2012 Class 2
			Colour	Silver grey, mid grey, dark grey or grey-red.
			Texture	Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by employer may be hewn/cropped as an alternative (only acceptable in areas not trafficked by pedestrians).
		raised kerb edge	Water absorption	Higher expected value BS EN 1342:2012 ≤ 0.35%
		to tree pits and planting areas or raised lip kerb edge to	Abrasion resistance	Higher expected value BS EN 1342:2012 ≤ 23mm
			Freeze/thaw resistance	Mean compressive strength (BS EN 1342:2012) results to be declared, Change between 0 cycles and 56 cycles to be ≤ 15%
		staggered	Density/porosity	BS EN 1342:2012 ≥ 2500kg/m ³ / ≤ 1.25%
		crossings.	Breaking strength	Lower expected value BS EN 1342:2012 ≥ 180 MPa
Footway	Precast concrete		Dimensions	600mm wide x 600mm long x 70 or 72mm thick
Surface	paving slab,		Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L)
Channel	pimple finish,		Upper arris	BS EN 1339:2003 Square with no bevel or beading
	grey, steel reinforced to BS		Lower arris	BS EN 1339:2003 Square with no bevel or beading
			Colour	Light grey upper face as Munsel colour SY 7 5/0.5 with no inconsistency



SSDIVI Kev 9.	EN 1339:2003		Appearance	No exposed aggregate in upper face
	600x600x70mm		Texture	Pimple textured upper face
	F-PC-B1(70)		Breaking load	BS EN 1339:2003 Class 140(14).≥ 20.65 KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering resistance	BS EN 1339:2003 Class 3(D)
		Slabs need to be	Special requirements	Units to be steel reinforced to reduce fragmentation in case of failure
		cut to widths as	Method of manufacture	
		described in		
		SSDM DS 130		
		and DS 118 to		
		form surface		
	Б ,	channel detail.	D: .	
	Precast concrete		Dimensions	600mm wide x 600mm long x 70 or 72mm thick regular plan and section.
	paving slab, pimple finish – V			However, upper face to have shallow 'V' profile with valley located down centre of unit. Depth of valley verses unit thickness at edges to be 15mm.
	profile channel			Gradient of valley sides to be ≥ 1:20. Except for upper face and base, all
	unit, grey			other opposing faces to be planar to one another and all adjacent faces
	F-PC-B1(X)			to be perpendicular to one another.
	()		Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L)
		Shallow V-profile	Upper arris	BS EN 1339:2003 Square with no bevel or rounding
		unit may be used	Lower arris	BS EN 1339:2003 Square with no bevel or rounding
		to avoid need for cutting slabs to	Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency
		width.	Appearance	No exposed aggregate in upper face
		widti.	Texture	Pimple textured upper face
			Breaking load	BS EN 1339:2003 Class 140(14).≥ 20.65 KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering resistance	BS EN 1339:2003 Class 3(D)
			Special requirements	Units to be steel reinforced to reduce fragmentation in case of failure
			Method of manufacture	Units may be single layer or two-layer press with separate facing layer
Vehicle	Precast concrete		Dimensions	600mm wide x 600mm long x 70 or 72mm thick
crossing	paving slab,	1-1-1-1-1	Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L)
plateau	pimple finish,		Upper arris	BS EN 1339:2003 Square with no bevel or beading
surface	grey, steel		Lower arris	BS EN 1339:2003 Square with no bevel or beading
Non-	reinforced to BS EN 1339:2003	See SSDM DS	Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency
Frequent	600x600x70mm	132 for traffic	Appearance	No exposed aggregate in upper face
riequent	F-PC-B1(70)	thresholds for	Texture	Pimple textured upper face
			Breaking load	BS EN 1339:2003 Class 140(14).≥ 20.65 KN



Use	November 2022	occasional use	Abrasion resistance	BS EN 1339:2003 Class 4(I)
access		vehicle accesses	Weathering resistance	BS EN 1339:2003 Class 3(D)
			Special requirements	Units to be steel reinforced to reduce fragmentation in case of failure
			Method of manufacture	Units may be single layer or two-layer press with separate facing layer
Vehicle crossing	Precast concrete blocks with face	San Car	Dimensions	100mm wide x 200mm long x 80mm thick. Pencil chamfered division groove across width of upper face to divide into two 100 x 100mm areas
plateau surface	division to BS EN 1338;2003. Mid grey		Upper arris	BS EN 1338:2003 Chamfered (pencil chamfered) \leq 1.5mm vertical chamfer dimension, \leq 2.5mm horizontal chamfer dimension. Chamfer to be flat as moulded with no further texturisation
Frequent	200x100x80mm		Lower arris	BS EN 1338:2003 Square
Use	B-PC(80)-B2b	See SSDM DS	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
access And		132 for traffic thresholds for	Colour	Facing layer: mid grey to Munsell colour (neutral scale) N 6.0 /_30.0% Bed face and sides beneath facing layer: generic grey
Alla		frequent use	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
Vehicle		vehicle accesses	Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
crossing			Water absorption	BS EN 1338:2003 Class 2(B)
ramp surface			Abrasion resistance	BS EN 1338:2003 Class 4(I)
Surface			Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
			Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing
Main C/way surface	Bituminous mixture surface course	Local Committee	different NRSWA road of	S 601 for details of permitted bituminous mixture surface materials for categories and trafficking circumstances. See also the London Asphalt of acceptable proprietary mixes for use across London.
	Imitation granite		Dimensions	150mm wide x 300mm long x 100mm thick.
	sett precast		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm
	concrete blocks. Anti-shift units.			horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.
	Mid grey to BS		Lower arris	BS EN 1338:2003 Square
	EN 1338:2003		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
			racing layer unckness	DO EN 1000.2000 ≥ OMM



B-PC(AS)-G1b		Spacer nibs Colour	To be SF-Kooperation VS units or similar approved. Side faces to include nibs located at regular ≤ 42mm centres so as to interlock between nibs of opposing units. Each nib to protrude 3mm from side of unit & be approx. 13mm wide with chamfered top & sides. Top of nibs recessed 5 -15mm beneath upper face. Method of interlock to be such that individual units may still be removed by vertical lifting following installation. Facing layer overall colour when viewed from a distance of 2m is mid
	To be laid in a distributed mix of 80% G1b and		grey as Munsell colour (neutral scale) N 6.0 /_30.0% Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey
	20% G1c in a	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	stretcher bond perpendicular to the dominant c/way edge.	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm in diameter.
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw resistance	
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing
		Traffic bonding requirement	Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.
Imitation granite	>	Dimensions	150mm wide x 300mm long x 100mm thick.
sett precast concrete blocks. Anti-shift units.		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.
Dark grey to BS		Lower arris	BS EN 1338:2003 Square
EN 1338:2003		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
B-PC(AS)-G1c	To be laid in a	Spacer nibs	To be SF-Kooperation VS units or similar approved. Side faces to include nibs located at regular ≤ 42mm centres so as to interlock between nibs of



SSDIM Rev 9:	November 2022	distributed mix of 80% G1b and 20% G1c in a stretcher bond perpendicular to the dominant c/way edge.	Colour Bulk density of facing Texture Water absorption Abrasion resistance Freeze/thaw resistance Method of manufacture	()
			Traffic bonding requirement	minimum of 12 hours to reduce risk of efflorescence before packing Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533- 1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.
Parking Bay Surface	Bituminous mix surface course	Linear Comm of Consenses Linear Comm of Consenses Linear Twinner Advance Group Transport for Linear LOTICAL Asset Management Board LOCOCOMIC Advance Management Board LOCOCOMIC Advance Management Board LOCOCOMIC Advance To Institute Consenses LOTICAL Asset Management Board LOCOCOMIC Advance Management Board	As described above for	Main Carriageway Surface



Imitation granite sett precast concrete blocks. Anti-shift units. B-PC(AS)-G1b B-PC(AS)-G1c		As described above for Mid grey and Dark grey	Main Carriageway Surface to BS EN 1338:2003
Imitation granite		Dimensions	BS EN 1338:2003 100mm wide x 200mm long x 80mm thick.
sett precast		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due
concrete blocks. Infiltration joint			to upper face texturisation process ≤ 4mm horizontal ≤ 2mm vertical
units. Mid grey to	Use only where	Lower arris	BS EN 1338:2003 Square
BS EN 1338:	rooting zones	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
2003 200x100x80mm B-PC(W80)-G1b	extend beneath parking bays. See SSDM DS	Spacer nibs	Spacer nibs to side. Specialist nibs to promote ingress of surface water whilst preventing migration of jointing material. Extent of protrusion to be ≤ 6mm.
D 1 3(W33) 3 13	601. To be laid in a distributed mix of 80% G1b and 20% G1c in a	Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as Munsell colour (neutral scale) N 6/_30%R. Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey
	stretcher bond	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	perpendicular to the dominant c/way edge.	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm in diameter.
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance Freeze/thaw resistance	BS EN 1338:2003 Class 3(H) or Class 4(I) BS EN 1338:2003 Class 3(D)
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a
		IVIGUIOU OI IIIAHUIACIUIE	minimum of 12 hours to reduce risk of efflorescence before packing
Imitation granite		Dimensions	BS EN 1338:2003 100mm wide x 200mm long x 80mm thick.
sett precast		Upper arris	BS EN 1339:2003 Moulded flat chamfer subsequently lightly abraded due
concrete blocks.		- ,	to upper face texturisation process ≤ 4mm horizontal ≤ 2mm vertical



332	November 2022	经国际中央部分 国际的企业和国际的。		O voimingue.
	Infiltration joint		Lower arris	BS EN 1338:2003 Square
	units. Dark grey		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	to BS EN 1338:2003 200x100x80mm	Use only where	Spacer nibs	Spacer nibs to side. Specialist nibs to promote ingress of surface water whilst preventing migration of jointing material. Extent of protrusion to be ≤ 6mm.
	B-PC(W80)-G1c	rooting zones extend beneath parking bays. See SSDM DS	Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as Munsell colour (neutral scale) N 5/_19.8%R. Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey
		601. To be laid in	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	a distributed m of 80% G1b ar 20% G1c in a stretcher bond	stretcher bond perpendicular to the dominant	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm in diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
			Freeze/thaw resistance	
			Method of manufacture	
Raised Table Plateau Surface and Traffic Carpet Surface	Bituminous mix surface course	Local Come of Control	As described above for	Main Carriageway Surface and Parking Bay Surface



	Imitation granite sett precast concrete blocks. Anti-shift units. B-PC(AS)-G1b B-PC(AS)-G1c		As described above for Mid grey and Dark grey	Main Carriageway Surface and Parking Bay Surface to BS EN 1338:2003
Raised Table Ramp Surface and Traffic Carpet Ramp Surface	Bituminous mixture surface course	Linear Commercial Contents Linear Commercial Contents Linear Commercial Contents The regard to Linear The regard to Linear Linear Commercial Contents Linear Commerc	As above.	
Tactile surface Blister crossing	Blister tactile precast concrete paving slab Dark grey 400x400x65mm		Dimensions Deviations Upper arris Lower arris Colour	400mm wide x 400mm long x 65mm thick (excluding profile features). BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3. BS EN 1339:2003 Square with no bevel or rounding. BS EN 1339:2003 Square with no bevel or rounding. Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency.
	T(B)-PC2	See SSDM DS 207 about the	Appearance Profile Feature Spacer nibs to sides	Smooth with no exposed aggregate in upper face. DD/CEN/TS 15209:2008 Type B1. Optional. Where provided ≤ 1.75mm
		use of tactile pavers.	Breaking load Abrasion resistance Weathering resistance Method of manufacture	BS EN 1339:2003 Class 140(14).≥ 17.7KN BS EN 1339:2003 Class 4(I) BS EN 1339:2003 Class 3(D) Units may be single layer or two-layer press with separate facing layer
Tactile surface Corduroy	Corduroy tactile precast concrete paving slab Dark grey 400x400x65mm T(C)-PC2	450 50 25 650.5 15	Dimensions Deviations Upper arris Lower arris Colour Appearance Profile Feature	400mm wide x 400mm long x 65mm thick (excluding profile features) BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3 BS EN 1339:2003 Square with no bevel or rounding BS EN 1339:2003 Square with no bevel or rounding Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency Smooth with no exposed aggregate in upper face DD/CEN/TS 15209:2008 Type R1
		See SSDM DS 207 about the	Spacer nibs to sides Breaking load	Optional. Where provided ≤ 1.75mm BS EN 1339:2003 Class 140(14).≥ 17.7KN



		use of tactile	Abrasion resistance	BS EN 1339:2003 Class 4(I)
		pavers.	Weathering resistance	BS EN 1339:2003 Class 3(D)
			Method of manufacture	Units may be single layer or two-layer press with separate facing layer
Tactile	Ladder/ tramline	"Ladder" pattern on the footway or footpath the cycle track	Dimensions	400mm wide x 400mm long x 65mm thick (excluding profile features)
surface	tactile precast		Deviations	BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3
Ladder/	concrete paving	35 30 70	Upper arris	BS EN 1339:2003 Square with no bevel or rounding
Tramline	slab		Lower arris	BS EN 1339:2003 Square with no bevel or rounding
	Dark grey 400x400x65mm		Colour	Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency
	T(L)-PC2	400	Appearance	Smooth with no exposed aggregate in upper face
	1(L)-PG2		Profile Feature	DD/CEN/TS 15209:2008 Type R3
			Spacer nibs to sides	Optional. Where provided ≤ 1.75mm
		400	Breaking load	BS EN 1339:2003 Class 140(14).≥ 17.7KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering resistance	BS EN 1339:2003 Class 3(D)
			Method of manufacture	Units may be single layer or two-layer press with separate facing layer
Reserve	Precast concrete	1	Dimensions	600mm wide x 750mm long x 70 or 72mm thick
Footway	paving slab,		Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L)
paving	pimple finish,		Upper arris	BS EN 1339:2003 Square with no bevel or rounding
materials	grey, to BS EN 1339:2003		Lower arris	BS EN 1339:2003 Square with no bevel or rounding
	750x600x70mm	Only appropriate	Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency
	F-PC-B2	for light overrun	Appearance	No exposed aggregate in upper face
		areas.	Texture	Pimple textured upper face
			Breaking load	BS EN 1339:2003 Class 140(14)
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering resistance	BS EN 1339:2003 Class 3(D)
			Method of manufacture	Units may be single layer or two-layer press with separate facing layer
	Precast concrete	7	Dimensions	450mm wide x 450mm long x 70mm thick
	paving slab,		Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L)
	pimple finish,		Upper arris	BS EN 1339:2003 Square with no bevel or rounding
	grey, to BS EN		Lower arris	BS EN 1339:2003 Square with no bevel or rounding
	1339:2003 450x450x70mm		Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency
	F-PC-B3		Appearance	No exposed aggregate in upper face
			Texture	Pimple textured upper face
			Breaking load	BS EN 1339:2003 Class 140(14)
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
				• • • • • • • • • • • • • • • • • • • •



		Weathering resistance	BS EN 1339:2003 Class 3(D)
		Method of manufacture	Units may be single layer or two-layer press with separate facing layer
Precast concrete		Dimensions	400mm wide x 400mm long x 70mm thick
paving slab,		Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L)
pimple finish,		Upper arris	BS EN 1339:2003 Square with no bevel or rounding
grey, to BS EN		Lower arris	BS EN 1339:2003 Square with no bevel or rounding
1339:2003	THE OWNER OF THE OWNER OWNER OF THE OWNER	Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency
400x400x70mm F-PC-B4	8	Appearance	No exposed aggregate in upper face
1-7-0-04		Texture	Pimple textured upper face
		Breaking load	BS EN 1339:2003 Class 140(14)
		Abrasion resistance	BS EN 1339:2003 Class 4(I)
		Weathering resistance	BS EN 1339:2003 Class 3(D)
		Method of manufacture	Units may be single layer or two-layer press with separate facing layer
Precast concrete		Dimensions	100mm wide x 200mm long x 60mm thick.
blocks to BS EN	The same of the sa	Upper arris	Pencil chamfered ≤ 1.5mm vertical chamfer dimension, ≤ 2.5mm horizontal
1338;2003.			chamfer dimension. Chamfer to be flat as moulded.
Light grey	May be laid as a	Lower arris	BS EN 1338:2003 Square
200x100x60mm B-PC(60)-B1a	single colour or	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
B-PC(60)-B1a	as a mix of two different colours	Colour	Facing layer: light grey to Munsell colour 7.5YR 8.25/0.5.
	different colours	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
		Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured
Precast concrete	CONTRACTOR OF THE PARTY OF THE	Dimensions	100mm wide x 200mm long x 60mm thick.
blocks to BS EN		Upper arris	Pencil chamfered ≤ 1.5mm vertical chamfer dimension, ≤ 2.5mm horizontal
1338;2003.			chamfer dimension. Chamfer to be flat as moulded.
Mid grey		Lower arris	BS EN 1338:2003 Square
200x100x60mm B-PC(60)-B1b	May be laid as a	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
B-PC(00)-B10	single colour or	Colour	Facing layer: mid grey to Munsell colour (Neutral scale) N6.0/_30%R.
	as a mix of two	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	different colours	Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)



			Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured
	Precast concrete blocks to BS EN		Dimensions	100mm wide x 200mm long x 60mm thick.
			Upper arris	Pencil chamfered ≤ 1.5mm vertical chamfer dimension, ≤ 2.5mm horizontal
	1338;2003.			chamfer dimension. Chamfer to be flat as moulded.
	Dark grey	May be laid as a	Lower arris	BS EN 1338:2003 Square
	200x100x60mm B-PC(60)-B1c	single colour or as	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
· ·	B-PC(00)-B1C	a mix of two	Colour	Facing layer: dark grey to Munsell colour (Neutral scale) N4.75/_17.6%R
		different colours	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
			Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
				BS EN 1338:2003 Class 3(D)
_			Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured
	Precast concrete		Dimensions	100mm wide x 200mm long x 80mm thick. Pencil chamfered division
	blocks with face			groove across width of upper face to divide into two 100 x 100mm areas
	division to BS EN	$\langle X \rangle \langle X \rangle \langle X \rangle$	Upper arris	BS EN 1338:2003 Chamfered (pencil chamfered) \leq 1.5mm vertical
	1338;2003.	$\times \times \times \times$		chamfer dimension, \leq 2.5mm horizontal chamfer dimension.
	Light grey 200x100x80mm	May be leid as a	Lower arris	BS EN 1338:2003 Square
	B-PC(80)-B2a	May be laid as a single colour or	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	B 1 0(00) B2u	as a mix of two	Colour	Facing layer: light grey to Munsell colour 7.5YR 8.25/0.5.
		different colours	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
		amoroni cologic	Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Manufacture method	Two-layer press with separate facing layer. Units to be vapour cured
	Precast concrete		Dimensions	100mm wide x 200mm long x 80mm thick. Pencil chamfered division
	blocks with face			groove across width of upper face to divide into two 100 x 100mm areas
	division to BS EN		Upper arris	BS EN 1338:2003 Chamfered (pencil chamfered) ≤ 1.5mm vertical
	1338;2003.			chamfer dimension, ≤ 2.5mm horizontal chamfer dimension.
	Mid grey 200x100x80mm	May be laid as a	Lower arris	BS EN 1338:2003 Square
	B-PC(80)-B2b	single colour or	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
•	D-F C(00)-D20	as a mix of two	Colour	Facing layer: mid grey to Munsell colour 7.5YR 8.25/0.5.
		different colours	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
			Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
			Water absorption	BS EN 1338:2003 Class 2(B)



		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw	BS EN 1338:2003 Class 3(D)
		Manufacture method	Two-layer press with separate facing layer. Units to be vapour cured
Precast concrete	May be laid as a	Dimensions	100mm wide x 200mm long x 80mm thick. Pencil chamfered division
blocks with face	single colour or		groove across width of upper face to divide into two 100 x 100mm areas
division to BS EN	as a mix of two	Upper arris	BS EN 1338:2003 Chamfered (pencil chamfered) ≤ 1.5mm vertical
1338;2003.	different colours		chamfer dimension, \leq 2.5mm horizontal chamfer dimension.
Dark grey	$\times\!\!\times\!\!\times\!\!\times$	Lower arris	BS EN 1338:2003 Square
200x100x80mm	$\times\!\!\times\!\!\times\!\!\times$	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
B-PC(80)-B2c		Colour	Facing layer: dark grey to Munsell colour 7.5YR 8.25/0.5.
	$\times \times \times \times$	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	$\langle X X X X \rangle$	Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured
Imitation Granite		Dimensions	200mm wide x 300mm long x 60mm thick.
Sett Precast		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm
concrete blocks			horizontal chamfer dimension. Chamfer to be flat as moulded then lightly
to BS EN			abraded due to texturisation for upper face of unit.
1338;2003.		Lower arris	BS EN 1338:2003 Square
Silver grey 300x200x60mm		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
B-PC(60)-G2a		Spacer nibs	To side ≤ 1.75mm
D-1 O(00)-02a		Colour	Facing layer overall colour when viewed from a distance of 2m is silver
			grey as Munsell colour (neutral scale) N 7.25 /_46.8%R. Grey, black and
	May be laid as a		white grains to stand out from back ground colour. Bed face and sides
	single colour or	Dully density of facing	beneath facing layer: generic grey
	as a mix of two different colours	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	different colours	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted.
			Facing layer to be ≥ 50% exposed stent (or other secondary granite
			aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and
			pepper appearance. Crushed granite and other face mix materials to be 1
			-3mm in diameter with none exceeding 5mm. Even overall distribution of
			different grain types. Close distribution of matic granules with typical
			spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter.
			opacing of c.1 c.7 cmm between made granded > min in diameter.



			Typical spacing between glinting mica imitation granules not to exceed
			10mm between granules > 0.5mm in diameter.
		Water absorption Abrasion resistance	BS EN 1338:2003 Class 2(B)
			BS EN 1338:2003 Class 4(I)
		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a
			minimum of 12 hours to reduce risk of efflorescence before packing
Imitation Granite		Dimensions	200mm wide x 300mm long x 60mm thick.
Sett Precast		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm
concrete blocks			horizontal chamfer dimension. Chamfer to be flat as moulded then lightly
to BS EN			abraded due to texturisation for upper face of unit.
1338;2003.		Lower arris	BS EN 1338:2003 Square
Mid grey 300x200x60mm		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
B-PC(60)-G2b		Spacer nibs	To side ≤ 1.75mm
B 1 3(00) 325		Colour	Facing layer overall colour when viewed from a distance of 2m is mid
	May be laid as a		grey as Munsell colour (neutral scale) N 6 /_30%R. Grey, black and white
	single colour or		grains to stand out from back ground colour. Bed face and sides beneath
	as a mix of two	Dulle describe of facing	facing layer: generic grey
	different colours	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
		Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted.
			Facing layer to be ≥ 50% exposed stent (or other secondary granite
			aggregates. Facing layer may also include blast furnace slag or recycled
			aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1
			-3mm in diameter with none exceeding 5mm. Even overall distribution of
			different grain types. Close distribution of matic granules with typical
			spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter.
			Typical spacing between glinting mica imitation granules not to exceed
			10mm between granules > 0.5mm in diameter.
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
		Method of manufacture	
			minimum of 12 hours to reduce risk of efflorescence before packing
		Dimensions	200mm wide x 300mm long x 60mm thick.



Imitation Granite Sett Precast concrete blocks		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.
to BS EN		Lower arris	BS EN 1338:2003 Square
1338;2003.		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
Dark grey		Spacer nibs	To side ≤ 1.75mm
300x200x60mm B-PC(60)-G2c	May be laid as a	Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as Munsell colour (neutral scale) N 5 /_19.8%R. Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey
	single colour or	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	as a mix of two different colours	Texture Water absorption Abrasion resistance Freeze/thaw resistance Method of manufacture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm in diameter. BS EN 1338:2003 Class 2(B) BS EN 1338:2003 Class 3(D) Two-layer press with separate facing layer. Units to be vapour cured for a
			minimum of 12 hours to reduce risk of efflorescence before packing
Imitation Granite		Dimensions	200mm wide x 300mm long x 80mm thick.
Sett Precast concrete blocks to BS EN		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.
1338;2003. Silver grey		Lower arris	BS EN 1338:2003 Square
		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
300x200x80mm B-PC(80)-G2a		Spacer nibs	To side ≤ 1.75mm
D-1 0(00)-02a		Colour	Facing layer overall colour when viewed from a distance of 2m is silver grey as Munsell colour (neutral scale) N 7.25 /_46.8%R. Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey

	Nev 9. November 2022	H	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
			Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted.
				Facing layer to be ≥ 50% exposed stent (or other secondary granite
				aggregates. Facing layer may also include blast furnace slag or recycled
				aggregates in imitation of natural stone granite. Monochrome salt and
		L		pepper appearance. Crushed granite and other face mix materials to be 1
				-3mm in diameter with none exceeding 5mm. Even overall distribution of
		18		different grain types. Close distribution of matic granules with typical
				spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter.
				Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm in diameter.
			Motor observion	BS EN 1338:2003 Class 2(B)
			Water absorption Abrasion resistance	BS EN 1338:2003 Class 2(B)
			Freeze/thaw resistance	BS EN 1338:2003 Class 4(1) BS EN 1338:2003 Class 3(D)
		May be laid as a	Method of manufacture	
		single colour or	Method of manufacture	minimum of 12 hours to reduce risk of efflorescence before packing
		as a mix of two		Thirming of 12 floars to reades flox of emerces series packing
		different colours		
	Imitation Granite	The second second	Dimensions	200mm wide x 300mm long x 80mm thick.
	Sett Precast		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm
	concrete blocks			horizontal chamfer dimension. Chamfer to be flat as moulded then lightly
	to BS EN			abraded due to texturisation for upper face of unit.
	1338;2003. Mid grey		Lower arris	BS EN 1338:2003 Square
300x200x80mm	May be laid as a	Facing layer thickness	BS EN 1338:2003 ≥ 6mm	
	B-PC(80)-G2b	single colour or	Spacer nibs	To side ≤ 1.75mm
		as a mix of two	Colour	Facing layer overall colour when viewed from a distance of 2m is mid
		different colours		grey as Munsell colour (neutral scale) N 6 /_30%R. Grey, black and white
				grains to stand out from back ground colour. Bed face and sides beneath
			Bulk density of facing	facing layer: generic grey BS EN 1338:2003.≥ 375kg/m³
			Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted.
			Texture	Facing layer to be ≥ 50% exposed stent (or other secondary granite
				aggregates. Facing layer may also include blast furnace slag or recycled
				aggregates in imitation of natural stone granite. Monochrome salt and
				pepper appearance. Crushed granite and other face mix materials to be 1
				-3mm in diameter with none exceeding 5mm. Even overall distribution of
				different grain types. Close distribution of matic granules with typical
				spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter.

Typical spacing between glinting mica imitation granu 10mm between granules > 0.5mm in diameter.	loc not to avacad
I 10mm hetween granules > 0.5mm in diameter	les not to exceed
· · ·	
Water absorption BS EN 1338:2003 Class 2(B)	
Abrasion resistance BS EN 1338:2003 Class 4(I)	
Freeze/thaw resistance BS EN 1338:2003 Class 3(D)	
Method of manufacture Two-layer press with separate facing layer. Units to be	e vapour cured for a
minimum of 12 hours to reduce risk of efflorescence by	efore packing
Imitation Granite May be laid as a Dimensions 200mm wide x 300mm long x 80mm thick.	
Sett Precast single colour or Upper arris BS EN 1338:2003 Chamfered 2mm vertical chamfer of	dimension, 4mm
concrete blocks as a mix of two horizontal chamfer dimension. Chamfer to be flat as n	noulded then lightly
to BS EN different colours abraded due to texturisation for upper face of unit.	
1338;2003. Lower arris BS EN 1338:2003 Square	
Dark grey Facing layer thickness BS EN 1338:2003 ≥ 6mm	
300x200x80mm Spacer nibs To side ≤ 1.75mm	
B-PC(80)-G2c Colour Facing layer overall colour when viewed from a distant	nce of 2m is dark
grey as Munsell colour (neutral scale) N 5 /_19.8%R.	
white grains to stand out from back ground colour. Be	d face and sides
beneath facing layer: generic grey	
Bulk density of facing BS EN 1338:2003.≥ 375kg/m³	
Texture Flat to all faces (except nibs). Facing layer to be lightly	y shot blasted.
Facing layer to be ≥ 50% exposed stent (or other second	ondary granite
aggregates. Facing layer may also include blast furna	ce slag or recycled
aggregates in imitation of natural stone granite. Mono	chrome salt and
pepper appearance. Crushed granite and other face r	nix materials to be 1
-3mm in diameter with none exceeding 5mm. Even ov	
different grain types. Close distribution of matic granu	
spacing of 0.4 - 0.75mm between matic granules > 1n	
Typical spacing between glinting mica imitation granu	les not to exceed
10mm between granules > 0.5mm in diameter.	
Water absorption BS EN 1338:2003 Class 2(B)	
Abrasion resistance BS EN 1338:2003 Class 4(I)	
Freeze/thaw resistance BS EN 1338:2003 Class 3(D)	
Method of manufacture Two-layer press with separate facing layer. Units to be	e vapour cured for a
minimum of 12 hours to reduce risk of efflorescence b	efore packing
Narrow pressed Dimensions 52mm wide x 215mm long x 70mm thick. Minor variar	nts (+/-4mm)
clay pavers to BS permitted. Rectangular plan and section.	·
EN 1344:2002	



Red brown		Upper and lower arris	Rounded /tumbled on all sides
215x52x70mm B-CP-1a	31	Colour	Subtly varying red-brown to all sides ranging through approx. Munsell colours SYR 6/2, SYR 6/3, SYR 6/4, SYR 5/2, SYR 5/3 and SYR 5/4
		Appearance	Flat faces with tumbled edges. No further texturisation.
		Breaking load	BS EN 1344:2002 Class T4
	Unit may be laid	Abrasion resistance	BS EN 1344:2002 Class A3(+)
	on alternate face	Weathering resistance	BS EN 1339:2003 Class 3(D)
	as either 50mm deep or 70mm	Water absorption	BS EN 711:2011 Class W3
	deep depending	Acid resistance	BS EN 1344:2002 Class C
	on trafficking.	Fire performance	BS EN 1344:2002 Class A1
	Ĭ	· · · · · · · · · · · · · · · · · · ·	Units to be CE marked to BS EN 1344:2002 for external paving
Tumbled	These units may	Dimensions	173mm wide x 208mm long x 80mm thick
imitation	only be laid in a	All arris	BS EN 1338:2003 Tumbled square edge (machine tumbled)
sandstone sett	stretcher bond.	Colour	Mid grey all sides to Munsell colour (neutral scale) 5.7/27.2% R. Variation
precast concrete	Unlikely to be		in pigmentation generally not to exceed 0.5 Value units either side of
block to BS EN	used in c/way,		general appearance colour.
1338:2003	limited to small	Appearance	Smooth with no exposed aggregate in all faces. Overall distressed
Mid grey 173x208x80mm	areas tightly constrained by		appearance due to machine tumbling with worn corners.
B-PC(80)-S1b	edge restraints.	Spacer nibs to sides	Nib protrusion to be ≤ 1.75mm
B-1 0(00)-018	cage restraints.	Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
			BS EN 1338:2003 Class 3(D)
		Method of manufacture	Units may be single layer or two-layer press with separate facing layer. Units to be vapour cured to reduce efflorescence before packing
Precast concrete	The state of the s	Dimensions	Mix of 208 and 173mm long x 173mm wide x 80mm thick.
blocks infiltration		Upper arris	BS EN 1338:2003 Chamfered (pencil chamfered) ≤ 1.5mm vertical
joint unit to BE			chamfer dimension, ≤ 2.5mm horizontal chamfer dimension. Chamfer to
EN 1388:2003			be flat as moulded with no further texturisation.
Light grey 208/173x173x80		Lower arris	BS EN 1338:2003 Square
B-PC(W60)-B1a		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
` ′	Only likely as a	Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing
	no dig pavement	·	migration of jointing material. Extent of nib protrusion ≥ 6mm
	construction over	Colour	Facing layer colour light grey to Munsell colour 7.5YR 8.25/0.5 Bed face
	rooting zones of		and sides beneath facing layer: generic grey
	existing trees.	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
		Texture	Flat to all faces (except nibs). No exposed aggregate or other texturisation



		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing
Precast concrete	Only likely as a	Dimensions	Mix of 208 and 173mm long x 173mm wide x 80mm thick.
blocks infiltration	no dig pavement	Upper arris	BS EN 1338:2003 Chamfered (pencil chamfered) ≤ 1.5mm vertical
joint unit to BE EN 1388:2003	construction over rooting zones of		chamfer dimension, ≤ 2.5mm horizontal chamfer dimension. Chamfer to be flat as moulded with no further texturisation.
Mid grey	existing trees.	Lower arris	BS EN 1338:2003 Square
208/173x173x80	7	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
B-PC(W60)-B1b		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing
	新发生物源	•	migration of jointing material. Extent of nib protrusion ≥ 6mm
		Colour	Facing layer colour mid grey to Munsell colour (neutral scale) N 6.0 /_30.0%R. Bed face and sides beneath facing layer: generic grey
	Control of the Contro	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
		Texture	Flat to all faces (except nibs). No exposed aggregate or other texturisation
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing
Imitation Granite		Dimensions	Mix of 208 and 173mm long x 173mm long x 60mm thick.
Setts precast concrete blocks	Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical	
Infiltration joint		Lower arris	BS EN 1338:2003 Square
units. Silver grey.		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
208/173x173x60 B-PC(W60)-G1a		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration of jointing material. Extent of nib protrusion ≥ 6mm
		Colour	Facing layer overall colour when viewed from a distance of 2m is silver
		Coloui	grey as Munsell colour (neutral scale) N 7.25/_46.8%R. Grey, black and
			white and glassy aggregate grains to stand out from back ground colour.
	Only likely as a		Bed face and sides beneath facing layer: generic grey
	no dig pavement construction over	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	CONSTRUCTION OVER	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted.
			Facing layer to be ≥ 50% exposed stent (or other secondary granite



	rooting zones of		aggregates. Facing layer may also include blast furnace slag or recycled
	existing trees.		aggregates in imitation of natural stone granite. Monochrome salt and
			pepper appearance. Crushed granite and other face mix materials to be 1
			-3mm in diameter with none exceeding 5mm. Even overall distribution of
			different grain types. Close distribution of matic granules with typical
			spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter.
			Typical spacing between glinting mica imitation granules not to exceed
			10mm between granules > 0.5mm in diameter.
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a
			minimum of 12 hours to reduce risk of efflorescence before packing.
Imitation Granite	STATE OF THE PARTY	Dimensions	Mix of 208 and 173mm long x 173mm long x 60mm thick.
Setts precast		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due
concrete blocks			to upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical
Infiltration joint		Lower arris	BS EN 1338:2003 Square
units. Mid grey.		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
208/173x173x60		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing
B-PC(W60)-G1b			migration of jointing material. Extent of nib protrusion ≥ 6mm
	Only likely as a no dig pavement	Colour	Facing layer overall colour when viewed from a distance of 2m is mid
			grey as Munsell colour (neutral scale) N 6/_30.0%R. Grey, black and
			white and glassy aggregate grains to stand out from back ground colour.
			Bed face and sides beneath facing layer: generic grey.
		Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
		Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted.
	construction over		Facing layer to be ≥ 50% exposed stent (or other secondary granite
	rooting zones of		aggregates. Facing layer may also include blast furnace slag or recycled
	existing trees.		aggregates in imitation of natural stone granite. Monochrome salt and
			pepper appearance. Crushed granite and other face mix materials to be 1
			-3mm in diameter with none exceeding 5mm. Even overall distribution of
			different grain types. Close distribution of matic granules with typical
			spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter.
			Typical spacing between glinting mica imitation granules not to exceed
			10mm between granules > 0.5mm in diameter.
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)

SSDIVI Rev 9.	November 2022		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
				Two-layer press with separate facing layer. Units to be vapour cured for a
				minimum of 12 hours to reduce risk of efflorescence before packing.
	Imitation Granite	Only likely as a no	Dimensions	Mix of 208 and 173mm long x 173mm long x 60mm thick.
	Setts precast	dig pavement	Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due
	concrete blocks	construction over		to upper face texturisation \leq 4mm horizontal \leq 2mm vertical.
	Infiltration joint	rooting zones of	Lower arris	BS EN 1338:2003 Square
	units. Dark grey.	existing trees.	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	208/173x173x60		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing
	B-PC(W60)-G1c			migration of jointing material. Extent of nib protrusion ≥ 6mm
			Colour	Facing layer overall colour when viewed from a distance of 2m is dark
				grey as Munsell colour (neutral scale) N 5/_19.8%R. Grey, black and
				white and glassy aggregate grains to stand out from back ground colour.
				Bed face and sides beneath facing layer: generic grey.
			Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
			Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted.
				Facing layer to be ≥ 50% exposed stent (or other secondary granite
				aggregates. Facing layer may also include blast furnace slag or recycled
		The State of the S		aggregates in imitation of natural stone granite. Monochrome salt and
				pepper appearance. Crushed granite and other face mix materials to be 1
				-3mm in diameter with none exceeding 5mm. Even overall distribution of
				different grain types. Close distribution of matic granules with typical
				spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter.
				Typical spacing between glinting mica imitation granules not to exceed
			10/	10mm between granules > 0.5mm in diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)	
		Freeze/thaw resistance	\ /	
			Method of manufacture	, , , , , , , , , , , , , , , , , , , ,
	lasitatian avanita		Dimensions	minimum of 12 hours to reduce risk of efflorescence before packing.
	Imitation granite sett precast		Dimensions	150mm wide x 300mm long x 100mm thick.
	concrete blocks.		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm
	Anti-shift units.			horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.
	Silver grey to BS		Lower arris	BS EN 1338:2003 Square
	EN 1338:2003			
	2.1 1000.2000		Facing layer thickness	BS EN 1338:2003 ≥ 6mm



SSDW Rev 9.	B-PC(AS)-G1a	Contraction of the Contraction o	Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to
	D-1 0(A0)-01a		Opacci filos	include substantial nibs located at regular ≤ 42mm centres so as to
				interlock between nibs of opposing units. Each nib to protrude by 3mm
				from side of unit and be approximately 13mm wide with chamfer to top
				and sides. Top of nibs to be 5 -15mm recessed beneath upper face.
				Method of interlock to be such that individual units may still be removed
				by vertical lifting following installation.
		Use may be	Colour	Facing layer overall colour when viewed from a distance of 2m is silver
		permitted either		grey as Munsell colour (neutral scale) N 7.25 /_46.8% Grey, black and
		alone or as a		white grains to stand out from back ground colour. Bed face and sides
		mixed surface	Delle deseite et te eine	beneath facing layer: generic grey
		with other anti- shift blocks.	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
		SHIIL DIOCKS.	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted.
				Facing layer to be ≥ 50% exposed stent (or other secondary granite
				aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and
				pepper appearance. Crushed granite and other face mix materials to be 1
				-3mm in diameter with none exceeding 5mm. Even overall distribution of
				different grain types. Close distribution of matic granules with typical
				spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter.
				Typical spacing between glinting mica imitation granules not to exceed
				10mm between granules > 0.5mm in diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
			Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a
				minimum of 12 hours to reduce risk of efflorescence before packing
Unbound	Sharp sand	The state of the	Particle size	0 – 4mm
bedding sand	bedding for unbound footway		Oven dried density	>2000kg/m ³
Sanu	concrete stabs,		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	natural stone		AIV	Aggregate Impact Value < 30%
	flags and	Primarily sea	Abrasion resistance	Los Angeles Value <30% loss
	concrete blocks	dredged coarse	Flakiness Value	< 30
	or clay pavers	sand or washed grit	Elongation Index	< 30
		sand with no	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
		organic matter to		
		BS EN 12620:2013		



SODIVI INEV 3.	Quartz arenite sand bedding for unbound		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. $< 1 - 2\%$ fines.
	carriageway		Particle size	1 – 4mm
	concrete blocks	通用的 被火焰等	Oven dried density	>2000kg/m ³
	or clay pavers L-QZ4		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	L-Q24		AIV	Aggregate Impact Value < 30%
			Abrasion resistance	Los Angeles Value <30% loss
			Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.
	Quartz arenite sand bedding for		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation.
	unbound		Particle size	2 – 6mm
	permeable	美国	Oven dried density	>2000kg/m ³
	carriageway concrete blocks	To be laid 50mm thick	Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	or clay pavers		AIV	Aggregate Impact Value < 30%
	L-QZ2/6		Abrasion resistance	Los Angeles Value <30% loss
			Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.
Unbound	Sharp sand	TOPE	Particle size	0 – 4mm
jointing	jointing sand for		Oven dried density	>2000kg/m ³
sand	unbound footway		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	concrete stabs,		AIV	Aggregate Impact Value < 30%
	natural stone		Abrasion resistance	Los Angeles Value <30% loss
	flags and concrete blocks	Primarily sea	Flakiness Value	< 30
or clay pavers L-SS1	dredged coarse sand or washed grit	Elongation Index	< 30	
		sand or washed grit sand with no organic matter to BS EN 12620:2013	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	Stabilised jointing sand for unbound	For use where there might be	2 options	Sharp sand as above with a water miscible stabilising jointing liquid.



	footway concrete stabs, natural stone flags and concrete blocks or clay pavers L-X1	cleansing issues (vacuum cleaners sucking out jointing sand).		A dry sharp sand and cement mix, brushed into the joints and then moistened with water
Stabilised jointing ravel for unbound footwate concrete stabs, natural stone flags & concrete blocks or clay pavers L-X2		For use with wider joints.	2 options	0 - 8mm gravel with a water miscible stabilising jointing liquid A dry 0 - 8mm gravel and cement mix, brushed into the joints and then moistened with water.
Bedding	Bedding mortar	Paining states/urm tiliga/cuitables privage motor tealstry motor "greening motor"	Minimum Flexural	30 MPa
mortar	for bound	Substrate	strength	FO NI/m 2
	I MILIA		Minimum Compressive Strength	50 N/mm²
		BS 7533-4/2006,	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	Table 4, clause 5.4.4.1		Chloride Ion content	≤ 0.1% of mass
			Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
	Bedding mortar for bound	Fore proceeding product First proceeding proc	Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
			Minimum Compressive strength	25 N/mm ²
	construction		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	L-MH2	BS 7533-10	Chloride Ion content	≤ 0.1% of mass
		/2004 Type B	Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.



	Temperature		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
	Bedding mortar for bound construction L-MH3	Printing the control of the control	Minimum Compressive strength	40 N/mm ²
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass
		/2004 Type A	Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
	Rapid set	International Age of the Control of	Curing time	1 hour to reach structural strength 40 N/mm ²
	bedding mortar		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	for bound		Chloride Ion content	\leq 0.1% of mass
	construction L-MHX		Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Weak bedding	For use where	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	mortar for bound	there is no	Chloride Ion content	≤ 0.1% of mass
	construction L-MWK12	vehicle overrun. Plastic Mortar:	Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
	L-IVIVVICIZ	Class M12 to BS	Cement	Portland Cement CEM1 complying with BSEN 197-1
		EN 998-2: 2005	Water cement ratio	≤ 0.4
		(e.g. a 1:3 cement:sand mix)	Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Bound jointing	Jointing mortar for bound	BS 7533-10 /2004	Minimum Compressive Strength	50 N/mm ²
mortar	construction	5 -8mm joint gap	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	J-MH1		Chloride Ion content	≤ 0.1% of mass



		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
	v		(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature of mixed mortar: 5 to 25 degrees centigrade.
		Water absorption	Of mixed mortar ≤ 0.4%
Jointing mor for bound	/2004	Minimum Compressive strength	
construction		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
J-MH2		Chloride Ion content	≤ 0.1% of mass
		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Jointing mor for bound	/2004	Minimum Compressive strength	
construction		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
J-MH3		Chloride Ion content	≤ 0.1% of mass
		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
Rapid set joi	inting BS 7533-10	Curing time	1 hour to reach structural strength 40 N/mm ²
mortar for bo		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
construction		Chloride Ion content	≤ 0.1% of mass
J-MHX		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.



			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Quartz Arenite jointing sand for	g sand for eable joints	Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation.
Sand	permeable joints		Particle size	2 – 4mm
	J-QZ2/4		Oven dried density	>2000kg/m ³
			Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
			AIV	Aggregate Impact Value < 30%
			Abrasion resistance	Los Angeles Value <30% loss
		—	Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.

3.2 General Area Street Furniture Palette

Long Seat	Simple style metal seat with		Dimensions	Sit height approximately 450mm . Back height between 700 – 850mm Length of approximately 1800mm
Seat	timber appearance slats and upright geometry. Arm rest at ends only,		Slats	Minimum 50mm width of seat slats with maximum 35mm gap between each. Wider gaps may be acceptable on backrest. Slats not to protrude beyond arm rests or back support. Slats to be capable of removal without need to de-root bench. Slats ideally to be single common size (and never more than two sizes) for ease of maintenance and replacement.
	backrest, both		Fixing	Root fixed or concealed bolt ground fixing. Security bolt fixing to slats.
	slightly inclined. Minimalist design with no non- structural or functional metal work or timber	Bailey International Delta Eco E Bench UM365-M FSC timber with security bolts	Materials	Legs armrests and back supports to be metal in one of the following: stainless steel, hot dipped galvanised steel, or ductile iron (where corrosion treated). Slats to be imitation timber recycled plastic (or composite recycled plastic and wood) or polyurethane coated galvanised steel or aluminium. Otherwise to be real hardwood timber slats (FSC certified, European source preferred) with a minimum 5-year guarantee.
	and no decoration.		Colour	Grey finish to metal ends. Maybe achieved either through polyester powder coating in RAL 7005 signal grey colour, exposure of natural metal where appropriately coloured and corrosion treated, or coating of the metal with a RAL 7005 signal grey coloured polyurethane outer (e.g. ferrocast/durocast or similar)
Street Chair	Simple style metal seat with		Dimensions	Sit height approximately 450mm. Back height between 700 – 850mm Length of approximately 1800mm



and uprigh geometry. rest at end	appearance slats and upright geometry. Arm rest at ends only,	南	Slats	Minimum 50mm width of seat slats with maximum 35mm gap between each. Wider gaps may be acceptable on backrest. Slats not to protrude beyond arm rests or back support. Slats to be capable of removal without need to de-root bench. Slats ideally to be single common size (and never more than two sizes) for ease of maintenance and replacement.
	backrest, both slightly inclined.	E.	Fixing	Root fixed or concealed bolt ground fixing. Security bolt fixing to slats.
Minimalist design with no non-structural or functional metal work or timber and no decoration.	Bailey International Delta Eco E Chair UM365-M FSC timber with security bolts	Materials	Legs armrests and back supports to be metal in one of the following: stainless steel, hot dipped galvanised steel, or ductile iron (where corrosion treated). Slats to be imitation timber recycled plastic (or composite recycled plastic and wood) or polyurethane coated galvanised steel or aluminium. Otherwise to be real hardwood timber slats (FSC certified, European source preferred) with a minimum 5-year guarantee.	
	association.		Colour	Grey finish to metal ends. Maybe achieved either through polyester powder coating in RAL 7005 signal grey colour, exposure of natural metal where appropriately coloured and corrosion treated, or coating of the metal with a RAL 7005 signal grey coloured polyurethane outer (e.g. ferrocast/durocast or similar).
Wide Bin	Wide Bin Simple square, rectangular or elliptical plan		Dimensions	Height 900 - 1150mm, Length 600 – 800mm, Depth 300 – 375mm
			Capacity	60 litres or greater
	plastic bin.		Fixing	Bolt or base plate fixed to the ground.
SSDM DS 222	Me Z	Materials	Durable recycled or new plastic to outer. Zinc coated galvanised steel to or polyurethane liner.	
	for use requirements	Plastic Omnium Elegant Charter, 110L	Colour	Black finish
			Appearance	Integrated hood with shallow domed or inclined profile to facilitate rain water run- off. Front opening door with secure hinge and locking system and industry standard security key. Stem lock mechanism. Removable liner. Fire resistant. Capable of accommodating an ash tray as a variant. Limited text or other decals on bin. Blank with either tidyman insignia or 'litter' text (preferred) but not both. Limited narrow gold horizontal detail bands around bin.
Narrow	Simple square,		Dimensions	Height 900 - 1150mm, Length 400 - 600mm, Depth 400 - 450mm
Bin	rectangular or		Capacity	80 litres or greater
	elliptical plan		Fixing	Bolt or base plate fixed to the ground.
	plastic bin.		Materials	Durable recycled or new plastic to outer. Zinc coated galvanised steel to or polyurethane liner.
			Colour	Black finish



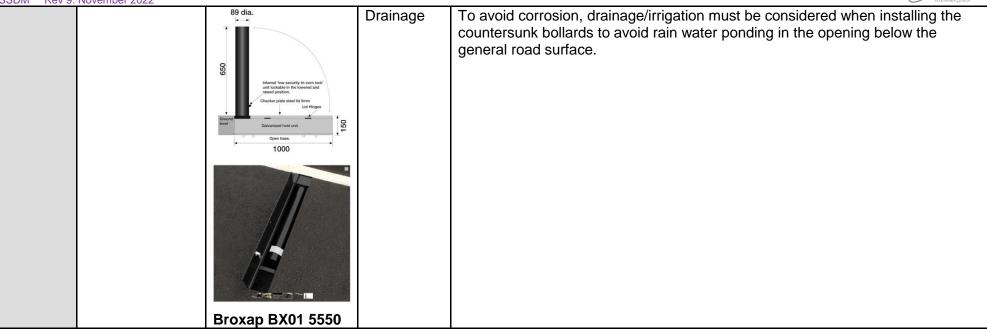
	SSDM DS 222 for use requirements		Appearance	Integrated hood with shallow domed or inclined profile to facilitate rain water runoff. Front opening door with secure hinge and locking system and industry standard security key. Stem lock mechanism. Removable liner. Fire resistant. Capable of accommodating an ash tray as a variant. Limited text or other decals on bin. Blank with either tidyman insignia or 'litter' text (preferred) but not both. Limited narrow gold horizontal detail bands around bin.
Pedal Cycle Stand	Simple unadorned 'n' stand design with	Broxap Sheffield stand BMXW/GS0	Dimensions	Height 700 - 750mm, Length 800 – 850mm. Overall diameter of main stand tubing to be 45 – 50mm. Outer radius of corners to be 100 – 150mm.
without tapping	orthogonal uprights and		Fixing	Root fixed minimum 230mm below ground.
bar	cross bar and small radius corners.		Materials	Solid steel core (to deter theft) with polyurethane outer finish to protect bicycle frames from damage (durocast/ferrocast or similar)
			Colour	Jet black finish RAL 9005
			Appearance	No signage, no visibility bands
Pedal Cycle Stand	Unadorned 'n' stand design with orthogonal	Broxap BMXW/GS0 Sheffield stand	Dimensions	Height 700 - 750mm, Length 800 – 850mm. Overall diameter of main stand tubing to be 45 – 50mm. Outer radius of corners to be 100 – 150mm. Tapping bar to be circular, 20mm in diameter and approximately 15mm above the ground.
with	uprights and cross bar, tapping bar and small radius corners.		Fixing	Root fixed minimum 230mm below ground.
tapping bar			Materials	Solid steel core (to deter theft) with polyurethane outer finish to protect bicycle frames from damage (durocast/ferrocast or similar)
			Colour	Jet black finish RAL 9005
			Appearance	No signage, no visibility bands
Footway	Recycled shorter		Dimensions	Height 700 - 750mm
bollard	version of the		Fixing	Root fixed minimum 300 - 350mm below ground.
without signage	classic Manchester cast	cast	Materials	Aluminium or galvanised steel core with polyurethane outer finish (durocast/ferrocast or similar)
iron bollard	iron bollard		Colour	To match area standard colour



SODIVI NEV 3.	SSDM DS 211 for use requirements	Broxap Manchester mini	Appearance	No colour contrast to detail bonds or any other areas.
Footway	To incorporate		Dimensions	Height 700 - 750mm
bollard	150mm diameter		Fixing	Root fixed minimum 300 - 350mm below ground.
with signage	moulding below bollard head for		Materials	Aluminium or galvanised steel core with polyurethane outer finish (durocast/ferrocast or similar)
	roundel sign		Colour	To match area standard colour
			Appearance	No colour contrast to detail bonds or any other areas.
C/way bollard without	Higher design to increase conspicouity to	<u>a</u>	Dimensions	Height 950 - 1100mm Diameter 100mm at narrowest point Retro reflective tape width 450 – 600mm
signage	motorists and to	000	Fixing	Root fixed minimum 300 - 350mm below ground.
	incorporate Class 2 reflective tape		Materials	Galvanised steel or ductile iron inner core with polyurethane outer finish (durocast/ferrocast or similar)
	around bollard		Colour	Jet Black RAL 9005. Retro reflective tape to be RAL 7004 signal grey
	positioned beneath its head		Appearance	No colour contrast to detail bonds or any other areas.
C/way bollard with signage	lard to accommodate sign	9	Dimensions	Height 950 - 1100mm Diameter 190mm at narrowest point Retro reflective tape width 450 – 600mm Sign diameter 270mm roundel
			Fixing	Root fixed minimum 300 - 350mm below ground.
			Materials	Galvanised steel or ductile iron inner core with polyurethane outer finish (durocast/ferrocast or similar)
			Colour	Jet Black RAL 9005. Retro reflective tape to be RAL 7004 signal grey
			Appearance	No colour contrast to detail bonds or any other areas.
Bollard and rail system			Dimensions	Height 700 -750mm. Rail height minimum 675mm above ground. Rail section approximately 45mm square. Bollards located at 1.8m spacing with overall minimum and maximum spacing to be 1.5 – 3m



	SSDM DS 112	Broxap Manchester bollard and rail combo Furnitube Manchester bollard and rail combo	Fixing	Root fixed minimum 300 - 350mm below ground. Bollards to be joined by square section metal rail, fixed to be diamond profile to deter climbing by children.
			Materials	Galvanised steel or ductile iron inner core with polyurethane outer finish (durocast/ferrocast or similar)
	for use		Colour	Polyurethane outer finish pigment to match area standard colour
			Appearance	To incorporate moulded rail aperture to receive 1x square section rail to either side of bollard. Apertures to be located immediately beneath the domed bollard head. Apertures to allow rails to pass through bollard where necessary.
High	Standard high		Dimensions	Rail section panel lengths 1–3m. Min. gap between vertical bars to be 200mm.
visibility panel	visibility railing with vertical		Fixing	To be mounted on top of root fixed stub posts rather than hung between interspacing posts.
guard	offset bars.	N. H. P. C.	Materials	Mill finished aluminium or galvanised steel
railing		Bridge Parapets Ltd Visiflex	Colour	Upright posts to ends of runs of panels to be polyester powder coated in Jet Black RAL 9005. Remainder of panel to be natural finish, corrosion treated as necessary.
			Appearance	To incorporate moulded rail aperture to receive 1x square section rail to either side of bollard. Apertures to be located immediately beneath the domed bollard head. Apertures to allow rails to pass through bollard where necessary.
Self-	Rebound Hi-		Dimensions	Height: 980mm, width 340mm, thickness: 88mm. Base: 200mmx200mm.
righting	visibility retro		Fixing	Root fixed minimum 300 - 350mm below ground.
post with	reflective bollard		Materials	Plastic with retro-reflective cover to BS 8442:2015
reflective material	reflective material		Colour	Yellow.
			Appearance	To incorporate directional arrow or other appropriate traffic sign.
Collaps-	Countersunk		Dimensions	Height: 650mm, length 1000mm, depth: 150mm. Diameter: 89mm.
ible	Fold Down		Materials	Zinc coated galvanised steel with retro-reflective bands.
Bollard	Bollard		Colour	Polyester powder coated in Jet Black RAL 9005.
			Appearance	To incorporate lockable cover to eliminate trip hazards when bollard is stored in the collapsed position.



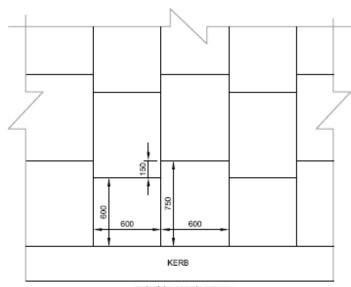


4 Town Centre Area

In the Town Centre Specification areas of Southwark, the carriageways are bituminous pavements and/or small modular paving unit surfaced carriageway. The footways are large element natural stone flags (including the plateaus of vehicle accesses), and one or more types of block paver used to raised tables, inset parking bays and the plateaus of heavily used vehicle accesses.



In the Town Centre, granite stone flags 600 x 750 x 80mm are used in light vehicle overrun areas. Laid to BS 7533-8:2003.

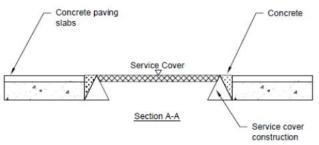


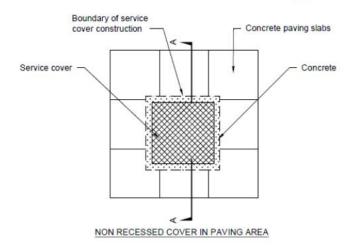
EXISTING CARRIAGEWAY.

As with World Centre and Heritage sites, in areas of heavy vehicle overrun the paving shall be reinforced by increasing the flag thickness to 90mm and its breaking load from 15 KN to 21KN.

In town centre footways (and other general areas), utility covers may be flush with a 50mm thick concrete surround.







In Town Centre areas any precast concrete kerb is to be replaced with 300mm wide granite kerbs.

Granite stone cubes are required at the rear of the footway/footpath to delineate between public highway and private land. In Heritage or World Centre areas the granite edging is to be replaced with Yorkstone cubes or possibly Yorkstone slabs, cut to 50x150mm and laid on end to BS 7533-4:1998.

Appearance: the colour, veining, texture, etc. of the natural stone shall be identified visually, typically by a reference sample of the same stone suitable for providing a general description of visual appearance. A reference sample shall



be provided by the supplier of the stone according to BS EN 1341:2012.

A reference sample shall be an adequate number of pieces (typically three pieces) of natural stone of sufficient size to indicate the general appearance of the finished work. The dimensions of individual pieces shall be at around 300mm by 300mm and shall indicate the range of appearance regarding the colouring, the vein pattern, the physical structure and the surface finish. In particular the reference sample shall show specific characteristics of the stone, such as typical holes, glass seams, spots, crystalline veins and rusty spots. The reference sample does not imply strict uniformity between the sample itself and the actual supply; natural variations may always occur. If the processing of the stone involves the use of patching, fillers or other similar products for natural holes, faults or cracks, then the reference sample shall similarly display the impact of the same on the finished surface. All the characteristics as shown by the reference sample shall be considered typical of the stone and not as flaws, therefore they shall not become a reason for rejection, unless their concentration becomes excessive and the typical character of the stone is lost.

The name and address of the manufacturer or the supplier of the stone, as well as the denomination of the stone in accordance with Section 4.1 of BS EN 1341:2012 and/or information on the treatment in accordance with section 4.1.2 or the above standard shall be indicated on the reference sample. Any comparison between production sample and reference sample shall be carried out by placing the reference sample against the production samples and viewing them at a distance of about 2m under normal daylight conditions and recording any visible differences in the characteristics of the stones.



4.1	Town Centre A	rea Surfacing Ma	aterials Palette	
Heavy	Granite natural	7 7 7 1 1 1 1	Dimensions	600mm wide x 750mm long x 90mm thick
overrun	stone slab		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).
footway	paving		Upper arris	Upper arris (BS EN 1341:2012): Square/sharp.
	(600x750x90).	Lower arris	Lower arris (BS EN 1341:2012): Square/sharp.	
	Silver Grey		Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral
	F-NS(90)-G1			grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided
				eye at a distance of 2m under natural light to be N8.25 - N8.5, though the
				material's composition from individual white, grey and black grains should
				remain visibly evident even when viewed in this way. Dark Mafic mineral
			A	grains to have lightness value of 0-1 on the Munsell Colour Scale.
			Appearance	Natural plutonic micro-granodiorite or micro-tonalite granitoid stone slab in accordance with BS EN 1341:2012. Other 'commercial' granites with less
				than 20% quartz may be accepted at the approving officer's discretion
				providing general finish requirements are met.
			Texture	Texture (BS EN 1341:2012): Fine textured (diamond sawn) to all sides.
			TOMOTO	Upper face subsequently coarse textured (flamed treatment).
			Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 12.5 MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Wet – mean (BS EN 1341:2012): ≥ 65 USRV.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
Light	Granite natural		Dimensions	600mm wide x 750mm long x 80mm thick
overrun	stone slab		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).
footway	paving	- 111	Upper arris	Upper arris (BS EN 1341:2012): Square/sharp.
	(600x750x80).		Lower arris	Lower arris (BS EN 1341:2012): Square/sharp.
	Silver Grey F-NS(80)-G1		Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral
	or			grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided
	F-NS(90)-G1			eye at a distance of 2m under natural light to be N8.25 - N8.5, though the
	1 110(00) 01			material's composition from individual white, grey and black grains should
				remain visibly evident even when viewed in this way. Dark Mafic mineral grains to have lightness value of 0-1 on the Munsell Colour Scale.
			Appearance	Natural plutonic micro-granodiorite or micro-tonalite granitoid stone slab in
			/ ippearance	accordance with BS EN 1341:2012. Other 'commercial' granites with less
				than 20% quartz may be accepted at the approving officer's discretion
				providing general finish requirements are met.
			Texture	Texture (BS EN 1341:2012): Fine textured (diamond sawn) to all sides.
				Upper face subsequently coarse textured (flamed treatment).



			Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 12.5 MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
			Slip resistance	Wet – mean (BS EN 1341:2012): ≥ 65 USRV.
Main	Granite natural		Dimensions	Various width x 750mm long x 90mm thick
footway/	stone slab		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).
footpath	paving		Upper arris	Upper arris (BS EN 1341:2012): Square/sharp.
surface	(600x750x90).	2257	Lower arris	Lower arris (BS EN 1341:2012): Square/sharp.
channel	Silver Grey F-NS(90)-G1 Slabs cut to appropriate width as		Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should remain visibly evident even when viewed in this way. Dark Mafic mineral grains to have lightness value of 0-1 on the Munsell Colour Scale.
	described in Design Standards 130 and 118 to form surface channel		Appearance	Natural plutonic micro-granodiorite or micro-tonalite granitoid stone slab in accordance with BS EN 1341:2012. Other 'commercial' granites with less than 20% quartz may be accepted at the approving officer's discretion providing general finish requirements are met.
	detail.		Texture	Texture (BS EN 1341:2012): Fine textured (diamond sawn) to all sides. Upper face subsequently coarse textured (flamed treatment).
			Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 12.5 MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Wet – mean (BS EN 1341:2012): ≥ 65 USRV.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
Trim	Granite cube (80x80x80).	0). to r	Dimensions	80mm wide x 80mm long x 80mm thick. No undersized units to be included in delivery as units intended to be laid in stretcher or stack bond not an arc.
	Cropped to sides. For laying in		Deviations	Deviations on face irregularity (BS EN 1342:2012): Class 2.
			Tolerance	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012) : Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2
	stretcher / stack bond. Silver	14.0	Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
	Grey, Mid Grey, Dark Grey or Grey-Red.		Appearance	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To be a true granite, granitoid or commercial granite. In the case of Dark Grey colour units may be an extrusive igneous rock basalt.
	B-NS-G2(80)- CR-STR		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer



				may be hewn/cropped as an alternative. Sides and base (BS EN 1342:2012): Hewn/cropped (generally only acceptable to areas not trafficked by pedestrians).
			Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 Mpa.
			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm
			Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
			Density	Apparent density and open porosity - means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Vehicle Crossing plateau surface (occasion al access)	Granite natural stone slab paving (600x750x90). Silver Grey F-NS(90)-G1		As above.	As above.
Vehicle	Imitation granite		Dimensions	Nominal (BS EN 1338:2003): 208mm wide x 173mm long x 80mm thick.
Crossing plateau	ateau concrete blocks	e blocks 73x80).	Upper arris	(BS EN 1339:2003): Moulded flat chamfer subsequently lightly abraded due to upper ace texturisation process. ≤4mm horizontal. ≤2mm vertical.
surface (frequent	(208x173x80). Silver grey.		Lower arris	(BS EN 1338:2003): Square.
use access)	use B-PC(80)-G1a	Mix of B-	Facing layer thickness	(BS EN 1338:2003): ≥6mm. Precast concrete block to BS EN 1338:2003. Facing layer to be ≥50% exposed stent (or other secondary granite aggregates). Facing layer to also include black blast furnace slag (or other secondary or recycled aggregates) in Imitation of mafic accessory minerals found in natural stone granite. Backing layer not to contain any stent (or other secondary granite aggregates).
		, ,	Spacer nibs	Spacer nibs to side: Yes ≤1.75mm.
		and B-PC(80)- G1c	Colour Bulk density of facing	Colour (facing layer): Overall colour when viewed by the naked eye at a distance of 2m under natural light to be silver grey as Munsell Colour (Neutral Scale) N 7.25/_46.8% R. Upon close visual inspection to be composed of grey, black, white and glassy aggregate grains as described below, though overall ground mass colour to be as described above. Colour (bed face and sides beneath facing layer): Generic grey. (BS EN 1338:2003): ≥375kg/m3.



		Texture Water absorption	Flat to all faces. Facing layer to be lightly shot blasted to the satisfaction of the approving officer to expose stent and other decorative aggregates in face mix and remove parent material from mould whilst avoiding excessive texturisation likely to promote substantial build up of surface grime. BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing
Imitation granite		Dimensions	Nominal (BS EN 1338:2003): 208mm wide x 173mm long x 80mm thick.
sett precast concrete blocks		Upper arris	(BS EN 1339:2003): Moulded flat chamfer subsequently lightly abraded due to upper ace texturisation process. ≤4mm horizontal. ≤2mm vertical.
(208x173x80).		Lower arris	(BS EN 1338:2003): Square.
Mid grey. B-PC(80)-G1b		Facing layer thickness	(BS EN 1338:2003): ≥6mm. Precast concrete block to BS EN 1338:2003. Facing layer to be ≥50% exposed stent (or other secondary granite aggregates). Facing layer to also include black blast furnace slag (or other secondary or recycled aggregates) in Imitation of mafic accessory minerals found in natural stone granite. Backing layer not to contain any stent (or other secondary granite aggregates).
		Spacer nibs	Spacer nibs to side: Yes ≤1.75mm.
F E a	Mix of B- PC(80)-G1a, BPC(80)-G1b and B-PC(80)- G1c	Colour	Colour (facing layer): Overall colour when viewed by the naked eye at a distance of 2m under natural light to be mid grey as Munsell Colour (Neutral Scale) N 6/_30.0% R. Upon close visual inspection to be composed of grey, black, white and glassy aggregate grains as described below, though overall ground mass colour to be as described above. Colour (bed face and sides beneath facing layer): Generic grey.
		Bulk density of facing	(BS EN 1338:2003): ≥375kg/m3.
		Texture	Flat to all faces. Facing layer to be lightly shot blasted to the satisfaction of the approving officer to expose stent and other decorative aggregates in face mix and remove parent material from mould whilst avoiding excessive texturisation likely to promote substantial build-up of surface grime.
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing

SSDM Rev	9: November 2022		1	southwark_poux
	Imitation granite		Dimensions	Nominal (BS EN 1338:2003): 208mm wide x 173mm long x 80mm thick.
	sett precast		Upper arris	(BS EN 1339:2003): Moulded flat chamfer subsequently lightly abraded due
	concrete blocks			to upper ace texturisation process. ≤4mm horizontal. ≤2mm vertical.
	(208x173x80).		Lower arris	(BS EN 1338:2003): Square.
	Mid grey.		Facing layer thickness	(BS EN 1338:2003): ≥6mm. Precast concrete block to BS EN 1338:2003.
	B-PC(80)-G1c			Facing layer to be ≥50% exposed stent (or other secondary granite
				aggregates). Facing layer to also include black blast furnace slag (or other
		(secondary or recycled aggregates) in Imitation of mafic accessory minerals
		\		found in natural stone granite. Backing layer not to contain any stent (or
				other secondary granite aggregates).
		Mix of B-	Spacer nibs	Spacer nibs to side: Yes ≤1.75mm.
		PC(80)-G1a,	Colour	Colour (facing layer): Overall colour when viewed by the naked eye at a
		BPC(80)- G1b		distance of 2m under natural light to be dark grey as Munsell Colour (Neutral
		and B-PC(80)-		Scale) N 5/_19.8% R Upon close visual inspection to be composed of grey,
		G1c		black, white and glassy aggregate grains as described below, though overall
		010		ground mass colour to be as described above. Colour (bed face and sides
				beneath facing layer): Generic grey.
			Bulk density of facing	(BS EN 1338:2003): ≥375kg/m3.
			Texture	Flat to all faces. Facing layer to be lightly shot blasted to the satisfaction of
				the approving officer to expose stent and other decorative aggregates in
				face mix and remove parent material from mould whilst avoiding excessive
				texturisation likely to promote substantial build-up of surface grime.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw resistance	BS EN 1338:2003 Class 3(D)
			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing
Vehicle	Imitation granite	Mix of B-	As above.	To be laid in an evenly distributed mix of proportions 20% G1a, 60% G1b
Crossing	sett precast	PC(80)-G1a,		and 20% G1c. Other colour mixes may be permitted by Level 1 Departure or
ramp	concrete blocks	BPC(80)- G1b		instructed by Approving Officers
surface	(208x173x80).	and B-PC(80)-		
	B-PC(80)-G1a	G1c		
	B-PC(80)-G1b			
	B-PC(80)-G1c			



Main Carriage way surface	Bituminous mixture surface course	Some Committee Some Some of Committee Some Some Some Some Some Some Some Some Some Some Some Some Some Some Some Some Some		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
	Imitation granite		Dimensions	150mm wide x 300mm long x 100mm thick.
	sett precast concrete blocks. Anti-		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.
	shift units.	THE REAL PROPERTY.	Lower arris	BS EN 1338:2003 Square
	Silver grey to		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	BS EN		Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include
	B-PC(AS)-G1c	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and		substantial nibs located at regular ≤ 42mm centres so as to interlock between nibs of opposing units. Each nib to protrude by 3mm from side of unit and be approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 -15mm recessed beneath upper face. Method of interlock to be such that individual units may still be removed by vertical lifting following installation.
			Colour	Facing layer overall colour when viewed from a distance of 2m is silver grey as Munsell Colour (Neutral Scale) N 7.25/_46.8% R Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey
			20% G1c in a	Bulk density of facing
		stretcher bond running perpendicular to the dominant carriageway edge.	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)



SSDIW Rev 8	s. November 2022		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing	
	Imitation granite		Dimensions	150mm wide x 300mm long x 100mm thick.	
	sett precast concrete blocks. Anti- shift units. Mid		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.	
	grey to BS EN	>	Lower arris	BS EN 1338:2003 Square	
	1338:2003 B-PC(AS)-G1b		Facing layer thickness	BS EN 1338:2003 ≥ 6mm	
	Mixed with	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher bond running perpendicular to the dominant carriageway edge.	evenly	Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include substantial nibs located at regular ≤ 42mm centres so as to interlock between nibs of opposing units. Each nib to protrude by 3mm from side of unit and be approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 -15mm recessed beneath upper face. Method of interlock to be such that individual units may still be removed by vertical lifting following installation.
			Colour	Facing layer overall colour when viewed from a distance of 2m is mid grey as Munsell colour (neutral scale) N 6.0 /_30.0% Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey.	
			Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³	
			Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter.	
			Water absorption	BS EN 1338:2003 Class 2(B)	
			Abrasion resistance	BS EN 1338:2003 Class 4(I)	
			Freeze/thaw	BS EN 1338:2003 Class 3(D)	
			Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing	



Imitation granite sett precast concrete blocks. Antishift units. Dark grey to BS EN 1338:2003 B-PC(AS)-G1c



To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher bond running perpendicular to the dominant carriageway edge.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Traffic bonding requirement Dimensions	Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints. 150mm wide x 300mm long x 100mm thick.
	Upper arris Lower arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit. BS EN 1338:2003 Square
	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include substantial nibs located at regular ≤ 42mm centres so as to interlock between nibs of opposing units. Each nib to protrude by 3mm from side of unit and be approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 -15mm recessed beneath upper face. Method of interlock to be such that individual units may still be removed by vertical lifting following installation.
,	Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as Munsell colour (neutral scale) N 5 /_19.8%R. Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey
	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m³
	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be \geq 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter.
	Water absorption	BS EN 1338:2003 Class 2(B)
	Abrasion resistance	BS EN 1338:2003 Class 4(I)
	Freeze/thaw	BS EN 1338:2003 Class 3(D)
	Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing.



Parking Bay Surface	Bituminous mixture surface course	Land Land Land Land Land Land Land Land	As above.	See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London
	Imitation granite sett precast concrete blocks. Anti- shift units.	B-PC(AS)-G1a B-PC(AS)-G1b B-PC(AS)-G1c	As above.	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge.
	Imitation granite	The state of the s	Dimensions	BS EN 1338:2003 100mm wide x 200mm long x 80mm thick.
	sett precast	<u>/</u>	Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to
	concrete			upper face texturisation process ≤ 4mm horizontal ≤ 2mm vertical
	blocks.	Use only where rooting zones extend beneath parking bays. See SSDM DS 601. To be laid in a distributed mix of 80% G1b	Lower arris	BS EN 1338:2003 Square
	Infiltration joint		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	units. Silver grey to BS EN 1338:2003 200x100x80mm B-PC(W80)- G1a		Spacer nibs	Spacer nibs to side. Specialist nibs to promote ingress of surface water whilst preventing migration of jointing material. Extent of protrusion to be ≤ 6mm.
20 B			parking bays. See SSDM DS 601. To be laid	Colour
			Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
		and 20% G1c in a stretcher bond perpendicular to the dominant c/way edge.	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter.



SSDM Rev S	3: November 2022	Г		SOURIER RADIO A
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
		Freeze/thaw	BS EN 1338:2003 Class 3(D)	
			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing
	Imitation granite		Dimensions	BS EN 1338:2003 100mm wide x 200mm long x 80mm thick.
	sett precast		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to
	concrete			upper face texturisation process ≤ 4mm horizontal ≤ 2mm vertical
	blocks.		Lower arris	BS EN 1338:2003 Square
	Infiltration joint		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	units. Mid grey		Spacer nibs	Spacer nibs to side. Specialist nibs to promote ingress of surface water whilst
	to BS EN		Spacer rilbe	preventing migration of jointing material. Extent of protrusion to be ≤ 6mm.
	1338:2003	Use only where	Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey
	200x100x80mm	rooting zones	Colodi	as Munsell colour (neutral scale) N 6/_30%R. Grey, black and white grains to
	B-PC(W80)-	extend beneath		stand out from back ground colour. Bed face and sides beneath facing layer:
	G1b	parking bays.		generic grey
		See SSDM DS	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
		601. To be laid	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
		in a distributed	Texture	layer to be ≥ 50% exposed stent (or other secondary granite aggregates.
		mix of 80% G1b and 20% G1c in		Facing layer may also include blast furnace slag or recycled aggregates in
		a stretcher bond		imitation of natural stone granite. Monochrome salt and pepper appearance.
		perpendicular to		Crushed granite and other face mix materials to be 1 -3mm in diameter with
		the dominant		none exceeding 5mm. Even overall distribution of different grain types. Close
		c/way edge.		distribution of matic granules with typical spacing of 0.4 - 0.75mm between
		o/way edge.		matic granules > 1mm in diameter. Typical spacing between glinting mica
				imitation granules not to exceed 10mm between granules > 0.5mm diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing
			manuracture	minimum of 12 hours to reduce risk of emorescence before packing
	Imitation granite		Dimensions	BS EN 1338:2003 100mm wide x 200mm long x 80mm thick.
	sett precast		Upper arris	BS EN 1339:2003 Moulded flat chamfer subsequently lightly abraided due to
	concrete			upper face texturisation process ≤ 4mm horizontal ≤ 2mm vertical
	blocks.		Lower arris	BS EN 1338:2003 Square
	Infiltration joint		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	•		i acing layer trickness	DO EN 1000.2000 2 011111



SSDIW Rev	units. Dark grey to BS EN 1338:2003 200x100x80mm B-PC(W80)-	Use only where rooting zones extend beneath parking bays. See SSDM DS	Spacer nibs Colour	Spacer nibs to side. Specialist nibs to promote ingress of surface water whilst preventing migration of jointing material. Extent of protrusion to be ≤ 6mm. Facing layer overall colour when viewed from a distance of 2m is dark grey as Munsell colour (neutral scale) N 5/_19.8%R. Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing	
	B-PC(W80)- G1c	parking bays. See SSDM DS 601. To be laid in a distributed mix of 80% G1b and 20% G1c in a stretcher bond perpendicular to the dominant c/way edge.	601. To be laid in a distributed mix of 80% G1b and 20% G1c in a stretcher bond perpendicular to the dominant c/way edge. Bulk density of Texture	Water absorption	layer: generic grey. BS EN 1338:2003.≥ 375kg/m³ Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. BS EN 1338:2003 Class 2(B)
			Abrasion resistance Freeze/thaw Method of manufacture	BS EN 1338:2003 Class 3(H) or Class 4(I) BS EN 1338:2003 Class 3(D) Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing.	
Raised Table Plateau Surface and Traffic Carpet Plateau Surface	Bituminous mixture surface course	Lotte Committee Lotte	As above.	See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.	
	Imitation granite sett precast concrete blocks. Anti-shift units. Silver, Mid and Dark grey to BS EN 1338:2003	B-PC(AS)-G1a B-PC(AS)-G1b B-PC(AS)-G1c	As above.	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge.	



Raised Table Ramp Surface and Traffic Carpet Ramp Surface	Bituminous mixture surface course	COTAG Asset Management Suard COTAG	As above.	See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
Traffic Carpet Plateau Surface Reserve	Imitation granite sett precast concrete blocks.	B-PC(80)-G1a, BPC(80)-G1b and B-PC(80)- G1c	As above.	Use may be acceptable in place of anti-shift units if it can be demonstrated that achievable cover is limited. Use may also sometimes be permitted to compliment anti-shit units. However, as these units may only be laid in a stretcher bond, use is likely to be limited to small areas that are tightly constrained by edge or intermediary restraints.
Materials	Granite cube 80x80x80mm grey to BS EN 1342:2012 B-NS-G2(80)- CR/STR		As above. For laying in stretcher/ stack bond.	As above.
	Granite cube 80x80x80mm grey to BS EN 1342:2012 B-NS-G2(80)-		Dimensions	80mm wide x 80mm long x 80mm thick (8/8/8 designation). For laying in arcs. Undersize units: Units to be produced for laying in arc patterns with 5% of units included in delivery having lengths and widths smaller than the permitted minimums after applying permitted dimensional tolerances (e.g. smaller than 80mm).
	CR/ARC	For laying in arcs.	Tolerances	Normal plan dimensions and thickness, undercut of sides and deviations on face irregularity to BS EN 1342:2012 Class 2
		aroo.	Colour	Silver grey, mid grey, dark grey or grey-red.
			Texture	Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by employer may be hewn/cropped as an alternative (only acceptable in areas not trafficked by pedestrians).
			Water absorption	Higher expected value BS EN 1342:2012 ≤ 0.35%
			Abrasion resistance	Higher expected value BS EN 1342:2012 ≤ 23mm
			Freeze/thaw	Under normal conditions mean compressive strength (BS EN 1342:2012)
			resistance	results to be declared, Change between 0 cycles and 56 cycles to be ≤ 15%
			Density/porosity	BS EN 1342:2012 ≥ 2500kg/m³ / ≤ 1.25%
			Breaking strength	Lower expected value BS EN 1342:2012 ≥ 180 MPa



	Granite sett		Dimensions	Nominal (BS EN 1342:2012): 240mm long x 160mm wide x 160mm thick.
	(240x160x160).			Rectangular plan and section. All opposing faces planar to one another. All
	Sawn to sides.			adjacent faces perpendicular to one another.
	Silver grey, Mid		Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012):
	grey, Dark Grey			Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2.
	or Grey-Red	TVAH		Deviations on face irregularity (BS EN 1342:2012): Class 2.
	B-NS-G4(160)-	XXXII	Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
	SW		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn
		Natural intrusive		then bush hammered/fine picked). Where required by the Employer may be
		igneous rock sett		hewn/cropped as an alternative (generally only acceptable to areas not
		in accordance		trafficked by pedestrians) sides (BS EN 1342:2012): Coarse textured
		with BS EN		(diamond sawn then sand blasted or bush base (BS EN 1342:2012): May be
		1342:2012. To be		either hewn/cropped or fine textured (sawn).
		a true granite/	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
		granitoid or	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		commercial granite.	Freeze/thaw	Under normal conditions - mean compressive strength (BS EN 1342:2012):
		granile.	resistance	Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Density/porosity	Open porosity - means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Breaking strength	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
	Granite sett		Dimensions	(BS EN 1342:2012): 240mm long x 160mm wide x 160mm thickness.
	(240x160x160).		Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012):
	Cropped to			Class 2. Note that the associated +/- variation is a requirement rather than a
	sides. Silver			permissible tolerance in order to permit laying in arcs and avoid creation of a
	grey, Mid grey,			sheer plane. Tolerances on undercut of sides (BS EN 1342:2012): Class 2.
	Dark Grey or	HAM		Deviations on face irregularity (BS EN 1342:2012): Class 2.
	Grey-Red.	XXXX	Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
	B-NS-G4(160)-	Natural intrusive	Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond
	CR	igneous rock		sawn then bush hammered/fine picked). Where required by the Employer
		sett in		may be hewn/cropped as an alternative (generally only acceptable to areas
		accordance with		not trafficked by pedestrians).
		BS EN	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
		1342:2012. To	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		be a true	Freeze/thaw	Under normal conditions - mean compressive strength (BS EN 1342:2012):
		granite/	resistance	Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
		granitoid or	Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
		commercial	Breaking strength	Lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		granite.		



Granite sett (200x100x100).		Dimensions	Nominal (BS EN 1342:2012): 200mm long x 100mm wide x 100mm thickness (10/20/10 designation).
Sawn to sides. Silver Grey, Mid Grey, Mid Grey	id lid ly	Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
or Grey-Red.		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
B-NS-G3(100)- SW		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Texture - sides (BS EN 1342:2012): Coarse textured (diamond sawn then sand blasted or bush hammered/fine picked). Texture - base (BS EN 1342:2012): May be either hewn/cropped or fine textured (sawn).
	or commercial	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	granite. In the	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
	case of Dark	Freeze/thaw	Mean compressive strength (BS EN 1342:2012): Results to be declared.
	Grey colour units may be an extrusive igneous rock basalt.	resistance	Change between 0 cycles and 56 cycles to be ≤ 15%.
		Density/porosity Breaking strength	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25% Breaking strength, compressive strength - lower expected value (BS EN
		breaking strongth	1342:2012): ≥ 180 MPa.
		Skid resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
Granite sett (200x100x100).		Dimensions	Nominal (BS EN 1342:2012): 200mm long x 100mm wide x 100mm thickness (10/20/10 designation).
Cropped to sides. Silver grey, Mid Grey, Dark Grey or Grey-Red.	Natural intrusive	Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Note that the associated +/- variation is a requirement rather than a permissible tolerance in order to permit laying in arcs and avoid creation of a sheer plane. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
B-NS-G3(100)-	igneous rock sett in accordance with BS EN 1342:2012. To be a true granite/granitoid	Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
CR		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Texture - sides (BS EN 1342:2012): Hewn/cropped.
	or commercial	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%
	granite. In the	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
	case of Dark	Freeze/thaw resistance	Mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.



SSDIVI Rev 9. November 2022	Grey colour units	Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
	may be an	Breaking strength	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 Mpa.
	extrusive igneous rock basalt.	Skid resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
CED Temple Setts		Dimensions	Nominal (BS EN 1342:2012): 90mm wide x 150mm depth x Varies (325, 275,225,175 and 125)
Granite sett (9 x150 x Varies) Split sides.		Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
Flamed top.	Natural intrusive	Colour	Bluish Grey, Blue Grey, Basalt black, Green and Red mix.
Bluish Grey, Blue Grey,	igneous rock sett in	Texture	Split sides. Sawn top and bottom, Upper face subsequently coarse textured (flamed treatment).
Basalt black,	accordance with	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Green or Red	BS EN 1342:2012. To	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
mix.		Freeze/thaw	Mean compressive strength (BS EN 1342:2012): Results to be declared.
S816-300-AA	granite/granitoid	resistance	Change between 0 cycles and 56 cycles to be ≤ 15%.
	or commercial	Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
	granite.	Breaking strength	Breaking strength, compressive strength - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		Skid resistance	Wet mean (BS EN 1342:2012): ≥ 65 USRV
Narrow presse imitation cla pavers (215x52x70).		Dimensions	Nominal (BS EN 1344:2002): 215mm long x 52mm wide x 70mm thick. Minor variants (+/- 4mm) on these dimensions may be permitted by agreement with approving officers. Rectangular plan & section. All opposing faces planar to each other. All adjacent faces perpendicular to each other.
Red-brown. B-ICP-1a	Units should be	Tolerances	Dimensional tolerances range (BS EN 1344:2002): Class R1. Dimensional tolerances mean (BS EN 1344:2002): Class U3.
	laid on 50mm wide face so as	Colour	Subtly varying red-brown to all sides ranging through approximate Munsell Colours 5YR 6/2, 5YR 6/3, 5YR 6/4, 5YR 5/2, 5YR 5/3 and 5YR 5/4.
	to be 70mm	Texture	Flat faces with tumbled edges. No further texturisation.
	deep	Water absorption	(BS EN 771-1:2011): Class W3.
		Abrasion resistance	(BS EN 1344:2002): Class A3 (+).
		Freeze/thaw	(BS EN 1344:2002): Class FP100.
		Acid resistance	(BS EN 1344:2002): Class C.
		Breaking strength	Transverse breaking load (BS EN 1344:2002): Class T4
		Fire performance	(BS EN 1344:2002): Class A1.



	Narrow pressed imitation clay pavers (212x52x70). Grey-buff. B-ICP-1c	Units should be	Dimensions	Nominal (BS EN 1344:2002): 215mm long x 52mm wide x 70mm thick. Minor variants (+/- 4mm) on the preceding dimensions may be permitted by agreement with approving officers. Rectangular plan and section. All opposing faces planar to one another. All adjacent faces perpendicular to one another.
	B-ICF-IC	laid on 50mm wide face so as	Tolerances	Dimensional tolerances range (BS EN 1344:2002): Class R1. Dimensional tolerances mean (BS EN 1344:2002): Class U3.
		to be 70mm deep	Colour	Subtly varying grey-buff to all sides ranging through approximate Munsell Colours 2.5Y8/1, 2.5 7/1, 2.5Y 6/1, 2.5Y 6/2 and 2.5YR5/1
		l deep	Texture	Flat faces with tumbled edges. No further texturisation.
			Water absorption	(BS EN 771-1:2011): Class W3.
			Abrasion resistance	(BS EN 1344:2002): Class A3 (+).
			Freeze/thaw	(BS EN 1344:2002): Class FP100.
			Density/porosity	(BS EN 1344:2002): Class C.
			Breaking strength	Transverse breaking load (BS EN 1344:2002): Class T4
			Skid resistance	(BS EN 1344:2002): Class A1.
Tactile	Blister tactile		Dimensions	400mm wide x 400mm long x 65mm thick (excluding profile features)
surfacing	precast		Deviations	BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3
Controlled	concrete paving		Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
crossing	slab		Profile feature	(DD/CEN/TS 15209:2008): Type B1.
	Dark grey 400x400x65mm		Colour	Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency
	T(B)-PC2		Appearance	Smooth with no exposed aggregate in upper face
	I(B)-PG2	See SSDM DS	Profile Feature	DD/CEN/TS 15209:2008 Type B1
		207 about the	Spacer nibs to sides	Optional. Where provided ≤ 1.75mm
		use of tactile	Breaking load	BS EN 1339:2003 Class 140(14).≥ 17.7KN
		pavers.	Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering resistance	BS EN 1339:2003 Class 3(D)
			Method of manufacture	Units may be single layer or two-layer press with separate facing layer
Tactile	Blister tactile	1	Dimensions	Nominal (BS EN 1341:2012): 400mm wide x 400mm long x 90mm thick
surfacing	granite natural	+		(excluding profile features).
Un-	stone paving	一样感到对于	Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances
controlled crossing	slab (90mm thickness).	The state of the s		on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	Silver grey.		Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
	T(B)-NS/G(90)		Profile feature	(DD/CEN/TS 15209:2008): Type B1.



	Tactile surface Corduroy	Corduroy tactile precast concrete paving slab Dark grey 400x400x65mm T(C)-PC2	Natural plutonic micro- granodiorite or micro-tonalite granitoid stone slab in accordance with BS EN 1341: 2012. Other 'commercial' granites with less than 20% quartz may be accepted at the approving officer's discretion providing general finish requirements are met. See SSDM DS 207 about the use of tactile pavers.	Appearance Water absorption Apparent density Breaking load Abrasion resistance Weathering resistance Slip resistance Dimensions Deviations Upper/lower arris Profile Feature Colour Appearance Profile Feature Spacer nibs to sides Breaking load Abrasion resistance Weathering resistance Weathering resistance Weathering resistance Method of manufacture	Pale grey to off-white. No or extremely minimal coloured feldspar mineral grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaid eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should remain visibly evident even when viewed in this way. Dark Mafic mineral grains to have lightness value of 0-1 on the Munsell Colour Scale. Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed then unaided eye at a distance of 2m under natural light. On close inspection to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to 5mm. Size of grains to generally increase with lightnes with mafics typically in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm in size and feint quartz veining may be permissible subject to intensity and distribution. Overall distribution of different grain sizes and colours to be fairly even. Higher expected value (BS EN 1341:2012): ≤ 0.35%. Mean (BS EN 1341:2012): ≥ 2600kg/m³ /s1.25%. Flexural Strength − lower expected value (BS EN 1341:2012): ≥ 12.5Mpa Higher expected value (BS EN 1341:2012): ≥ 12.5Mpa Higher expected value (BS EN 1341:2012): ≥ 65USRV. 400mm wide x 400mm long x 65mm thick (excluding profile features) BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3 BS EN 1339:2003 Square with no bevel or rounding DD/CEN/TS 15209:2008 Type R1 Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency Smooth with no exposed aggregate in upper face DD/CEN/TS 15209:2008 Type R1 Optional. Where provided ≤ 1.75mm BS EN 1339:2003 Class 4(I) BS EN 1339:2003 Class 3(D) Units may be single layer or two-layer press with separate facing layer	ed ed by
Tactile Ladder/ Dimensions 400mm wide x 400mm long x 65mm thick (excluding profile feature					400mm wide x 400mm long x 65mm thick (excluding profile features)	
surface tramline tactile Deviations BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3				Deviations	BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3	
Ladder/ precast Upper/lower arris BS EN 1339:2003 Square with no bevel or rounding				Upper/lower arris	BS EN 1339:2003 Square with no bevel or rounding	
Tramline concrete paving Profile Feature DD/CFN/TS 15209:2008 Type R3	Tramline	concrete paving				
Con CCDM DC	Tramine		Soo SEDM DS		· · ·	
Coo CCDM DC Trome reducte BB/OET4/TO 10203.2000 Type NO	Tramilne		See SSDM DS		DD/CEN/TS 15209:2008 Type R3 Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency	



SSDIVI IVEV	Dark grey	207 about the	Appearance	Smooth with no exposed aggregate in upper face
	400x400x65mm	use of tactile	Profile Feature	DD/CEN/TS 15209:2008 Type R3
	T(L)-PC2	pavers.	Spacer nibs to sides	Optional. Where provided ≤ 1.75mm
			Breaking load	BS EN 1339:2003 Class 140(14).≥ 17.7KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering resistance	BS EN 1339:2003 Class 3(D)
			Method of manufacture	Units may be single layer or two-layer press with separate facing layer
Reserve	Granite natural		Dimensions	(BS EN 1341:2012): 450mm wide x 600mm long x 80mm thick.
Footway	stone slab		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).
Paving	paving			Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on
Materials	(450x600x80).			thickness (BS EN 1341:2012): Class 2 (T2).
	Silver Grey. F-NS(80)-G2	Use will only be	Upper arris	Upper arris (BS EN 1341:2012): Square/sharp.
	F-N3(00)-G2	appropriate	Lower arris	Lower arris (BS EN 1341:2012): Square/sharp.
		within light	Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral
		overrun areas		grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided
		unless use of a		eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should
		bound/rigid		remain visibly evident even when viewed in this way. Dark Mafic mineral
		construction is		grains to have lightness value of 0-1 on the Munsell Colour Scale.
		required /	Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed
		permitted	Appodiano	by the unaided eye at a distance of 2m under natural light. On close
				inspection to be verging on the porphyritic. Grain sizes to range from
				approx. 0.5mm to 5mm. Size of grains to generally increase with lightness,
				with mafics typically in the range of 0.5-1.0mm. Both occasional lighter
				phenocrysts of up to 10mm in size and feint quartz veining may be
				permissible subject to intensity and distribution. Overall distribution of
				different grain sizes and colours to be fairly even. Natural plutonic micro-
				granodiorite or micro-tonalite granitoid stone slab in accordance with BS
				EN 1341:2012. Other 'commercial' granites with less than 20% quartz may
				be accepted at the approving officer's discretion providing general finish
				requirements are met.
			Texture	Texture (BS EN 1341:2012): Fine textured (diamond sawn) to all sides.
			Olin Danistonas	Upper face subsequently coarse textured (flamed treatment).
			Slip Resistance	Wet - mean (BS EN 1341:2012): ≥ 65 USRV
			Breaking load	Breaking strength, flexural strength - lower expected value (BS EN 1341:2012): ≥ 12.5 Mpa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.



	Weathering resistance	Freeze/thaw mean flexural strength (BS EN 1341:2012): Results to be
	Materials and the	declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
	Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%
Granite natural	Dimensions	(BS EN 1341:2012): 200mm wide x 300mm long x 85mm thick.
stone slab paving (200x300x85).	Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
Silver Grey.	Upper arris	Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2).
F-NS(85)-G3	Lower arris	Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should remain visibly evident even when viewed in this way. Dark Mafic mineral grains to have lightness value of 0-1 on the Munsell Colour Scale
	Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed by the unaided eye at a distance of 2m under natural light. On close inspection to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to 5mm. Size of grains to generally increase with lightness, with mafics typically in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm in size and feint quartz veining may be permissible subject to intensity and distribution. Overall distribution of different grain sizes and colours to be fairly even. Natural plutonic microgranodiorite or micro-tonalite granitoid stone slab in accordance with BS EN 1341:2012. Other 'commercial' granites with less than 20% quartz may be accepted at the approving officer's discretion providing general finish requirements are met.
	Texture	(BS EN 1341:2012): Fine textured (diamond sawn) to all sides. Upper face subsequently coarse textured (flamed treatment).
	Slip Resistance	Wet - mean (BS EN 1341:2012): ≥ 65 USRV
	Breaking load	Breaking strength, flexural strength - lower expected value (BS EN 1341:2012): ≥ 12.5 MPa.
	Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
	Weathering resistance	Durability, freeze/thaw resistance - mean flexural strength (BS EN 1341:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
	Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.

SSDM Rev 9	9: November 2022			Southwark, govuk
	Granite cube 80x80x80mm grey to BS EN 1342:2012 B-NS-G2(80)- CR/STR		As above.	As above.
	Granite cube 80x80x80mm grey to BS EN 1342:2012 B-NS-G2(80)- CR/ARC	For laying in arcs.	As above.	As above.
	Granite sett (200x100x100). B-NS-G3(100)- SW or B-NS-G3(100)- CR		As above. Silver Grey, Mid Grey, Mid Grey or Grey-Red. Sawn or cropped to sides.	As above. Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To be a true granite/granitoid or commercial granite. In the case of Dark Grey colour units may be an extrusive igneous rock basalt.
	Granite sett (240x160x160). B-NS-G4(160)- SW or B-NS-G4(160)- CR		As above. Silver Grey, Mid Grey, Mid Grey or Grey-Red. Sawn or cropped to sides.	As above. Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To be a true granite/granitoid or commercial granite. In the case of Dark Grey colour units may be an extrusive igneous rock basalt.
	Narrow pressed imitation clay pavers (215x52x70). Red-brown. B-ICP-1a		As above. Units should be laid on 50mm wide face so as to be 70mm deep	As above.
	Narrow pressed imitation clay pavers (212x52x70). Grey-buff. B-ICP-1c		As above. Units should be laid on 50mm wide face so as to be 70mm deep	As above.



	Granite mosaic (50x50x50).		Dimensions	Work dimensions - nominal (BS EN 1342:2012): 50mm width x 50mm length x 50mm thick (5/5/5 designation).
	Silver Grey or Mid Grey. B-NS-G1(50)-		Deviations	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
	CR		Density and porosity	Means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
		Use will only be appropriate to	Colour	Silver Grey or Mid Grey
		lightly trafficked surfaces and will	Appearance	Natural plutonic igneous rock sett in accordance with BS EN 1342:2012. To be a true granite, granitoid or commercial granite.
		require the use of a bound/rigid construction. Having a cropped upper face - this		Texture - upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required, may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Texture – sides and base (BS EN 1342:2012): Hewn/cropped.
		surface is not	Slip Resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
		accessible. Alternative paths	Breaking load	Lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		for vulnerable	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		pedestrians need to be provided. May be laid as a single colour or	Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	Precast		Dimensions	100mm wide x 200mm long x 60mm thick.
	concrete blocks to BS EN 1338:2003. Light grey 200x100x60mm		Upper arris	Pencil chamfered \leq 1.5mm vertical chamfer dimension, \leq 2.5mm horizontal chamfer dimension. Chamfer to be flat as moulded.
			Lower arris	BS EN 1338:2003 Square
			Facing layer thickness	BS EN 1338:2003 ≥ 6mm
		as a mix of two	Colour	Facing layer: light grey to Munsell colour 7.5YR 8.25/0.5.
	B-PC(60)-B1a	B-PC(60)-B1a different colours	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	,		Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Manufacture method	Two-layer press with separate facing layer. Units to be vapour cured



SSDIM RE	ev 9: November 2022			- oxummangozer
	Precast	AND DESCRIPTION OF THE PARTY OF	Dimensions	100mm wide x 200mm long x 60mm thick.
	concrete blocks		Upper arris	Pencil chamfered ≤ 1.5mm vertical chamfer dimension, ≤ 2.5mm horizontal
	to BS EN			chamfer dimension. Chamfer to be flat as moulded.
	1338:2003.	Marchalaida	Lower arris	BS EN 1338:2003 Square
	Mid grey 200x100x60mm	May be laid as a	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	ZUUXTUUXOUITIM	single colour or	Colour	Facing layer: mid grey to Munsell colour (Neutral scale) N6.0/_30%R.
	B-PC(60)-B1b	as a mix of two	Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	2 : 0(00) 2 : 5	different colours	Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Manufacture method	Two-layer press with separate facing layer. Units to be vapour cured
	Precast		Dimensions	100mm wide x 200mm long x 60mm thick.
	concrete blocks		Upper arris	Pencil chamfered ≤ 1.5mm vertical chamfer dimension, ≤ 2.5mm horizontal
	to BS EN			chamfer dimension. Chamfer to be flat as moulded.
	1338:2003.	May be laid as a	Lower arris	BS EN 1338:2003 Square
	Dark grey	single colour or as a mix of two different colours	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	200x100x60mm		Colour	Facing layer: dark grey to Munsell colour (Neutral scale) N4.75/_17.6%R
	B-PC(60)-B1c		Bulk density of facing	BS EN 1338:2003.≥ 375kg/m ³
	2 : 5(66) 2 : 6		Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Manufacture method	Two-layer press with separate facing layer. Units to be vapour cured
Unbound			Particle size	0 – 4mm
bedding	bedding for		Oven dried density	>2000kg/m ³
sand	unbound		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	footway		AIV	Aggregate Impact Value < 30%
	concrete stabs,		Abrasion resistance	Los Angeles Value <30% loss
	natural stone flags and concrete blocks	Primarily sea dredged coarse	Flakiness Value	< 30
			Elongation Index	< 30
	or clay pavers	sand or washed	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	L-SS1	grit sand with no		
		organic matter		
		to BS EN 12620:2013		
		12020.2013		



GOSIII IXOV	Quartz arenite sand bedding		Description	Almost pure quartz sand composed of $> 90\%$ quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. $< 1 - 2\%$ fines.
	for unbound		Particle size	1 – 4mm
	carriageway		Oven dried density	>2000kg/m ³
	concrete blocks		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	or clay pavers		AIV	Aggregate Impact Value < 30%
	L-QZ4		Abrasion resistance	Los Angeles Value <30% loss
			Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.
	Quartz arenite sand bedding		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation.
	for unbound	The state of the s	Particle size	2 – 6mm
	permeable	ACCEPTED TO	Oven dried density	>2000kg/m ³
	carriageway	国产的公文	Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	concrete blocks		AIV	Aggregate Impact Value < 30%
	or clay pavers		Abrasion resistance	Los Angeles Value <30% loss
	L-QZ2/6	To be laid	Flakiness Value	< 30
		50mm thick	Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.
Unbound	Sharp sand		Particle size	0 – 4mm
jointing	jointing sand for		Oven dried density	>2000kg/m ³
sand	unbound		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	footway concrete stabs, natural stone		AIV	Aggregate Impact Value < 30%
	flags and	Primarily sea	Abrasion resistance	Los Angeles Value <30% loss
	concrete blocks	dredged coarse sand or washed	Flakiness Value	< 30
	or clay pavers	grit sand with no	Elongation Index	< 30
	L-SS1	organic matter to BS EN 12620:2013	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	Stabilised	For use where	2 options	Sharp sand as above with a water miscible stabilising jointing liquid.
	jointing sand for	there might be	_ 55	A dry sharp sand and cement mix, brushed into the joints and then moistened
	unbound	cleansing issues		with water
	footway	(vacuum		
	concrete stabs,	cleaners		
	natural stone			



	flags and concrete blocks or clay pavers L-X1 Stabilised jointing gravel for unbound footway concrete stabs, natural stone flags & concrete blocks or clay pavers L-X2	sucking out jointing sand). For use with wider joints.	options	0 - 8mm gravel with a water miscible stabilising jointing liquid. A dry 0 - 8mm gravel and cement mix, brushed into the joints and then moistened with water.
Beddi	for bound construction L-MH1	BS 7533- 4/2006, Table 4, clause 5.4.4.1	Minimum Flexural strength Minimum Compressive Strength Aggregate size Chloride Ion content Acid soluble sulphate Cement Water cement ratio Water sulphate content Temperature Water absorption	$\begin{array}{l} 30 \text{ MPa} \\ \\ 50 \text{ N/mm}^2 \\ \\ \\ \hline \\ \text{Maximum aggregate size in bedding mortar: 2.8mm} \\ \\ \leq 0.1\% \text{ of mass} \\ \\ (\text{SO}_4) \leq 5\% \text{ of mass of cement in mix} \\ \\ \hline \text{Portland Cement CEM1 complying with BSEN 197-1} \\ \\ \leq 0.4 \\ \\ \text{(As SO}_4) \leq 1.4 \text{gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.} \\ \hline \text{Temperature of mixed mortar: 5 to 25 degrees centigrade.} \\ \hline \text{Of mixed mortar} \leq 0.4\% \\ \\ \end{array}$
	Bedding mortar for bound construction L-MH2	BS 7533-10 /2004 Type B	Minimum Compressive strength Aggregate size Chloride Ion content Acid soluble sulphate Cement Water cement ratio Water sulphate content	Maximum aggregate size in bedding mortar: 2.8mm $\leq 0.1\%$ of mass $(SO_4) \leq 5\%$ of mass of cement in mix Portland Cement CEM1 complying with BSEN 197-1 ≤ 0.4 (As SO_4) ≤ 1.4 gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.



			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
	Bedding mortar for bound construction	BS 7533-10	Minimum	40 N/mm ²
			Compressive strength	
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	L-MH3		Chloride Ion content	≤ 0.1% of mass
		/2004 Type A	Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	$(As SO_4) \le 1.4$ gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
	Rapid set	Paving stones/sith, Magastable - paving mortal - bedding mortal	Curing time	1 hour to reach structural strength 40 N/mm ²
	bedding mortar	1-pneug noria	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	for bound		Chloride Ion content	≤ 0.1% of mass
	construction		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
	L-MHX		Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	$(As SO_4) \le 1.4$ gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Weak bedding	For use where	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	mortar for	there is no vehicle overrun.	Chloride Ion content	≤ 0.1% of mass
	bound		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
	construction	Plastic Mortar:	Cement	Portland Cement CEM1 complying with BSEN 197-1
	L-MWK12	Class M12 to BS EN 998-2: 2005	Water cement ratio	≤ 0.4
		(e.g. a 1:3 cement:sand mix)	Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Bound	Jointing mortar	BS 7533-10	Minimum	50 N/mm ²
jointing	for bound /2004 construction J-MH1 gap	Compressive		
mortar		_	Strength	
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass
			Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1



OSDIVI Nev 9. November 2022		Water cement ratio	≤ 0.4
		Water sulphate	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
		content	waters), to BS EN 1008.
		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
		Water absorption	Of mixed mortar ≤ 0.4%
Jointing mortal		Minimum	25 N/mm ²
for bound	/2004	Compressive strength	
construction J-MH2		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
J-IVIEZ		Chloride Ion content	≤ 0.1% of mass
		Acid soluble sulphate	(SO₄) ≤ 5%of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Jointing mortal		Minimum	40 N/mm ²
for bound	/2004	Compressive strength	
construction		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
J-MH3		Chloride Ion content	≤ 0.1% of mass
		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
Rapid set	BS 7533-10 /2004	Curing time	1 hour to reach structural strength 40 N/mm ²
jointing mortar		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
for bound		Chloride Ion content	≤ 0.1% of mass
construction		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
J-MHX		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
		content	waters), to BS EN 1008.
		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
		Water absorption	Of mixed mortar ≤ 0.4%



	auth	wark
\supset	south	Council wark,gov.uk

Permeable Jointing	jointing sand for permeable joints	Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation.
Sand		Particle size	2 – 4mm
		Oven dried dens	ity >2000kg/m ³
	J-QZ2/4	Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	AIV	Aggregate Impact Value < 30%	
	Abrasion resistar	nce Los Angeles Value <30% loss	
		Flakiness Value	< 30
		Elongation Index	< 30
		Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.



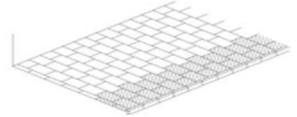
Heritage Specification

the Heritage Specification areas Southwark, the carriageways are bituminous or natural stone setts. The footway is a single type of flag paving (including the plateaus of vehicle accesses) and one or more types of block paver used to raised tables, inset parking bays and the plateaus of heavily used vehicle accesses.



Yorkstone paving is natural stone which has been quarried, cut and dressed into paving slabs. It is a fine-grained, hard sandstone and millstone. It is produced in a range of surface finishes and slab sizes containing buff and grey colour bands. Laid to BS 7533-4:2006, 63mm thick slabs, with a length to width ratio of 1.5 to 1, in random lengths of 300/450/600/750mm.

Due to its exceptional weathering qualities (with the material looking better as it ages) and its long life Yorkstone is an appropriate material in historic and sensitive high-profile Yorkstone is traditionally laid in random courses, which allows a range of stone sizes to be used. However, in streets with narrow footways or with vehicle overrun problems, 400 x 200 x 75 slabs to be used.



Where there may be heavy over-run the front two courses shall be reinforced by using thicker flags (up to 75mm) and increasing the cementitious bound base course to 200mm and the laying course to a 30MPA compressive strength 25mm thick bedding mortar.

Granite is a most hard, stain resistant and durable natural paving material. It has a long tradition of use in London for carriageways and kerbs. As with other paving bedded on concrete, utility company reinstatements and maintenance

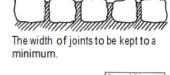
work does not affect the bond of the adjacent paving. Broken-out setts or kerb are difficult to damage and can normally be reused. Laid to BS 7533-7:1998.

Granite kerbs laid 300mm wide are preferred in the Heritage area, but as space in historic streets may be limited, 150mm wide granite kerbs may be used where appropriate.



Granite setts have excellent slip characteristics and, due to surface and joint variations, they slow up vehicles. Level or dressed granite setts are available second hand: these are as comfortable to walk on as brick or concrete block, but more slip-resistant, due to the quartz crystal composition of the material.

Dimensions: 100x100x100mm 200x100x100mm 240x160x160mm



Care is needed in certain locations with oil drips in the pointing and heavy vehicles "rocking" the granite ribbons containing the panel of setts. Setts can also be used in crossovers and barrel drops and as deterrent paving to discourage pedestrian use. Fine







specification is needed in footways and pedestrianised areas to give a surface smooth enough for some users. If historic setts are reused then an alternative smooth route should be available for people with mobility problems.

Appearance: the colour, veining, texture, etc. of the natural stone shall be identified visually, typically by a reference sample of the same stone suitable for providing a general description



of visual appearance. A reference sample shall be provided by the supplier of the stone according to BS EN 1341:2012.

A reference sample shall be an adequate number of pieces (typically three pieces) of natural stone of sufficient size to indicate the general appearance of the finished work. The dimensions of individual pieces shall be at around 300mm by 300mm and shall indicate the range of appearance regarding the colouring, the vein pattern, the physical structure and the surface finish. In particular the reference sample shall show specific characteristics of the stone, such as typical holes, glass seams, spots, crystalline veins and rusty spots. The reference sample does not imply strict uniformity between the sample itself and the actual supply; natural variations may always occur. If the processing of the stone involves the use of patching, fillers or other similar products for natural holes, faults or cracks, then the reference sample shall similarly display the impact of the same on the finished surface. All the characteristics as shown by the reference sample shall be considered typical of the stone and not as flaws, therefore they shall not become a reason for rejection, unless their concentration becomes excessive and the typical character of the stone is lost.

The name and address of the manufacturer or the supplier of the stone, as well as the denomination of the stone in accordance with Section 4.1 of BS EN 1341:2012 and/or information on the treatment in accordance with section 4.1.2 or the above standard shall be indicated on the reference sample. Any comparison between production sample and reference sample shall be carried out by placing the reference sample against the production samples and viewing them at a distance of about 2m under normal daylight conditions and recording any visible differences in the characteristics of the stones.



5.1	Heritage Area Surfacing Materials Palette				
Heavy overrun footway	Yorkstone natural stone slab paving		Dimensions	Work dimensions (BS EN 1341:2012): 75mm thick. Mixed width gauges of 300/450/600/750mm. Random length though with max length: width ratio to any unit of 1.5:1.0 and vice versa.	
	(mixed gauges and lengths, 75mm thick).		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).	
	Grey blue buff.	10-1	Upper arris	(BS EN 1341:2012): Square/sharp.	
	F-NS(75)-Y1		Lower arris	(BS EN 1341:2012): Square/sharp.	
	Or Yorkstone	cural stone b paving ngle size, 0x750x75mm ck). Grey blue if.	Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.	
	slab paving (single size, 600x750x75mm		Appearance	Transition between areas of different colour to be generally smooth though mild more banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.	
	buff.		Texture	(BS EN 1341:2012): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.	
	F-NS(75)-Y2		Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 19.0 MPa.	
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 23mm.	
			Weathering	Durability, freeze/thaw resistance - mean flexural strength (BS EN	
			resistance	1341:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.	
			Slip resistance	Slip resistance wet - mean (BS EN 1341:2012): ≥ 75 USRV	
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 2.0%.	
			Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%	
Light overrun footway	Yorkstone natural stone slab paving	natural stone	Dimensions	Work dimensions (BS EN 1341:2012): 63mm thick. Mixed width gauges of 300/450/600/750mm. Random length though with max length: width ratio to any unit of 1.5:1.0 and vice versa.	
	(mixed gauges and lengths, 63mm thick).	Use may be	Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).	
	Grey blue buff.	permitted if it can	Upper arris	(BS EN 1341:2012): Square/sharp.	
	F-NS(63)-Y1	be demonstrated		(BS EN 1341:2012): Square/sharp.	
		that achievable	Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey'	
	Or	cover is limited		dark grey swirls/wisps throughout. Blue-greys to be between Munsell colours:	



	Yorkstone natural stone slab paving (single-size 600x750x63). Grey blue buff.	stone unbound) a non-visually intrusive edge restraint can be designed into the	Appearance	GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2. Transition between areas of different colour to be generally smooth though mild more banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
	F-NS(63)-Y2	pavement to transition from	Texture	(BS EN 1341:2012): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
		the thicker slabs	Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 19.0 MPa.
		used to Heavy	Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 23mm
		Overrun areas. Unit aspect (e.g.	Weathering resistance	Freeze/thaw resistance - mean flexural strength (BS EN 1341:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
		Y1 or Y2) should match that used	Slip resistance	Slip resistance wet - mean (BS EN 1341:2012): ≥ 75 USRV
		to zone	Water absorption	Higher expected value (BS EN 1341:2012): ≤ 2.0%.
		10 20110	Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
Main	Yorkstone		Dimensions	Various width x 750mm long x 90mm thick
footway/	natural stone		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).
footpath	slab paving	Slabs cut to appropriate width to form surface channel detail.	Upper arris	Upper arris (BS EN 1341:2012): Square/sharp.
surface	(mixed gauges and lengths,		Lower arris	Lower arris (BS EN 1341:2012): Square/sharp.
75i Gro F-N Or Yo	75mm thick). Grey blue buff. F-NS(75)-Y1		Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should remain visibly evident even when viewed in this way. Dark Mafic mineral grains to have lightness value of 0-1 on the Munsell Colour Scale.
	slab paving (single size, 600x750x75mm thick). Grey blue buff. F-NS(75)-Y2		Appearance	Natural plutonic micro-granodiorite or micro-tonalite granitoid stone slab in accordance with BS EN 1341:2012. Other 'commercial' granites with less than 20% quartz may be accepted at the approving officer's discretion providing general finish requirements are met.
			Texture	Texture (BS EN 1341:2012): Fine textured (diamond sawn) to all sides. Upper
				face subsequently coarse textured (flamed treatment).
			Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 12.5 MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Wet – mean (BS EN 1341:2012): ≥ 65 USRV.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
			Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%



Trim	Yorkstone	1	Dimensions	Nominal (BS EN 1338:2003): 100mm long x 100mm wide x 75mm thick.
	natural stone cube		Deviations	Dimensional tolerances: As BS EN 1338:2003.
			Upper arris	(BS EN 1338:2003): Square/sharp.
	(100x100x75).		Lower arris	(BS EN 1338:2003): Square/sharp.
	Grey blue buff. B-NS(75)-Y1		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
			Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
			Texture	(BS EN 1338:2003): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
			Breaking load	Breaking strength, compressive strength - lower expected value (BS EN 1342:2012): ≥ 125 MPa.
			Abrasion resistance	higher expected value (BS EN 1342:2012): ≤ 23mm.
			Weathering	Freeze/thaw resistance, under normal conditions - mean compressive
			resistance	strength (BS EN1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV.
			Water absorption	Water absorption (BS EN 1342:2012): ≤ 2%.
			Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
	Granite cube 80x80x80mm	For use as part of raised kerb edge to tree pits and planting areas or raised lip kerb edge to staggered crossings	Dimensions	80mm wide x 80mm long x 80mm thick (8/8/8 designation). For laying in stretcher bond or stack bond.
	grey to BS EN 1342:2012		Tolerances	Normal plan dimensions and thickness, undercut of sides and deviations on face irregularity to BS EN 1342:2012 Class 2.
	B-NS-G2(80)-		Colour	Silver grey, mid grey, dark grey or grey-red.
	CR/STR		Texture	Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by employer may be hewn/cropped as an alternative (only acceptable in areas not trafficked by pedestrians).
			Water absorption	Higher expected value BS EN 1342:2012 ≤ 0.35%
			Abrasion resistance	Higher expected value BS EN 1342:2012 ≤ 23mm
			Freeze/thaw	Mean compressive strength (BS EN 1342:2012) results to be declared, Change
			resistance	between 0 cycles and 56 cycles to be ≤ 15%
			Density/porosity	BS EN 1342:2012 ≥ 2500kg/m ³ / ≤ 1.25%
			Breaking strength	Lower expected value BS EN 1342:2012 ≥ 180 MPa



	S. November 2022		Ι Δ Ι	
Vehicle	Yorkstone		As above.	As above.
crossing	natural stone	-		
plateau	slab paving			
surface	(mixed gauges	4		
Occasion	and lengths,			
al use	75mm thick) or	1,11		
	(single size,			
	600x750x75mm	- A-TIE		
	thick).Grey blue			
	buff.			
	F-NS(75)-Y1 Or			
	F-NS(75)-Y2			
	Yorkstone		A a abaya	An above
			As above.	As above.
	natural stone		Use may be	
	slab paving	1.01	permitted if a	
	(mixed gauges		bound/rigid	
	and lengths,		construction has	
	63mm thick) or	1	been permitted or is	
	(single-size	Ti	required. Unit aspect	
	600x750x63).	1	(e.g. Y1 or Y2)	
	Grey blue buff.	4	should match that	
	F-NS(63)-Y1 Or		used to footway.	
	F-NS(63)-Y2		·	
Vehicle	Imitation granite		Dimensions	Nominal (BS EN 1338:2003): 208mm wide x 173mm long x 80mm thick.
crossing	sett precast		Upper arris	(BS EN 1339:2003): Moulded flat chamfer subsequently lightly abraded due to
plateau	concrete blocks		• •	upper ace texturisation process. ≤4mm horizontal. ≤2mm vertical.
surface	(208x173x80).		Lower arris	(BS EN 1338:2003): Square.
Frequent	Silver grey.		Facing layer	(BS EN 1338:2003): ≥6mm. Precast concrete block to BS EN 1338:2003.
use .	B-PC(80)-G1a		thickness	Facing layer to be ≥50% exposed stent (or other secondary granite
	` ′		THORITOOD	aggregates). Facing layer to also include black blast furnace slag (or other
	To be laid in an			secondary or recycled aggregates) in Imitation of mafic accessory minerals
	evenly			found in natural stone granite. Backing layer not to contain any stent (or other
	distributed mix			
	of proportions	Mix of B-	Connect with -	secondary granite aggregates).
	60% G1a, 20%	PC(80)-G1a,	Spacer nibs	Spacer nibs to side: Yes ≤1.75mm.
	G1b and 20%	BPC(80)-G1b	Colour	Colour (facing layer): Overall colour when viewed by the naked eye at a
	G1c.	and B-PC(80)-		distance of 2m under natural light to be silver grey as Munsell Colour (Neutral
	G 16.	G1c		Scale) N 7.25/_46.8% R. Upon close visual inspection to be composed of
		GIU		grey, black, white and glassy aggregate grains as described below, though



			overall ground mass colour to be as described above. Colour (bed face and
			sides beneath facing layer): Generic grey.
		Density of facing	(BS EN 1338:2003): ≥375kg/m3.
		Texture	Flat to all faces. Facing layer to be lightly shot blasted to the satisfaction of
			the approving officer to expose stent and other decorative aggregates in face
			mix and remove parent material from mould whilst avoiding excessive
			texturisation likely to promote substantial build-up of surface grime.
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw	BS EN 1338:2003 Class 3(D)
		Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
		Manufacture	minimum of 12 hours to reduce risk of efflorescence before packing
Imitation granite		Dimensions	Nominal (BS EN 1338:2003): 208mm wide x 173mm long x 80mm thick.
sett precast		Upper arris	(BS EN 1339:2003): Moulded flat chamfer subsequently lightly abraded due to
concrete blocks			upper ace texturisation process. ≤4mm horizontal. ≤2mm vertical.
(208x173x80).		Lower arris	(BS EN 1338:2003): Square.
Mid grey.	(Facing layer	(BS EN 1338:2003): ≥6mm. Precast concrete block to BS EN 1338:2003.
B-PC(80)-G1b	\	thickness	Facing layer to be ≥50% exposed stent (or other secondary granite
Ta ba laidin an			aggregates). Facing layer to also include black blast furnace slag (or other
To be laid in an			secondary or recycled aggregates) in Imitation of mafic accessory minerals
evenly distributed mix			found in natural stone granite. Backing layer not to contain any stent (or other
of proportions			secondary granite aggregates).
60% G1a, 20%		Spacer nibs	Spacer nibs to side: Yes ≤1.75mm.
G1b and 20%	Mix of B-	Colour	Colour (facing layer): Overall colour when viewed by the naked eye at a
G1c.	PC(80)-G1a,		distance of 2m under natural light to be mid grey as Munsell Colour (Neutral
O 10.	BPC(80)-G1b		Scale) N 6/_30.0% R. Upon close visual inspection to be composed of grey,
	and B-PC(80)-		black, white and glassy aggregate grains as described below, though overall
	G1c		ground mass colour to be as described above. Colour (bed face and sides
		Developed	beneath facing layer): Generic grey.
		Density of facing	(BS EN 1338:2003): ≥375kg/m3.
		Texture	Flat to all faces. Facing layer to be lightly shot blasted to the satisfaction of
			the approving officer to expose stent and other decorative aggregates in face
			mix and remove parent material from mould whilst avoiding excessive texturisation likely to promote substantial build-up of surface grime.
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 2(b)
		Freeze/thaw	BS EN 1338:2003 Class 3(D)



			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			Manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.
	Imitation granite		Dimensions	Nominal (BS EN 1338:2003): 208mm wide x 173mm long x 80mm thick.
	sett precast	100000000000000000000000000000000000000	Upper arris	(BS EN 1339:2003): Moulded flat chamfer subsequently lightly abraded due to
	concrete blocks			upper ace texturisation process. ≤4mm horizontal. ≤2mm vertical.
	(208x173x80).		Lower arris	(BS EN 1338:2003): Square.
	Mid grey.		Facing layer	(BS EN 1338:2003): ≥6mm. Precast concrete block to BS EN 1338:2003.
	B-PC(80)-G1c		thickness	Facing layer to be ≥50% exposed stent (or other secondary granite
	-			aggregates). Facing layer to also include black blast furnace slag (or other
	To be laid in an			secondary or recycled aggregates) in Imitation of mafic accessory minerals
	evenly	\ <u> </u>		found in natural stone granite. Backing layer not to contain any stent (or other
	distributed mix			secondary granite aggregates).
	of proportions 60% G1a, 20%	Mix of B-	Spacer nibs	Spacer nibs to side: Yes ≤1.75mm.
	G1b and 20%	PC(80)-G1a,	Colour	Colour (facing layer): Overall colour when viewed by the naked eye at a
	G16 and 20 %	BPC(80)- G1b		distance of 2m under natural light to be dark grey as Munsell Colour (Neutral
	010.	and B-PC(80)-		Scale) N 5/_19.8% R Upon close visual inspection to be composed of grey,
		G1c `´		black, white and glassy aggregate grains as described below, though overall
				ground mass colour to be as described above. Colour (bed face and sides
			5	beneath facing layer): Generic grey.
			Density of facing	(BS EN 1338:2003): ≥375kg/m3.
			Texture	Flat to all faces. Facing layer to be lightly shot blasted to the satisfaction of the
				approving officer to expose stent and other decorative aggregates in face mix
				and remove parent material from mould whilst avoiding excessive texturisation
)A/ (1 ('	likely to promote substantial build-up of surface grime.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing
Vehicle	Mix of B-		As above.	As above.
Crossing	PC(80)-G1a,			To be laid in an evenly distributed mix of proportions 60% G1a, 20% G1b and
Ramp	BPC(20% G1c.
Surface	80)-G1b and B-			
	PC(80)- G1c			
	GIC		1	



Raised Table Plateau Surface and Traffic Carpet Surface	Bituminous mixture surface course	Long Lorenz State Lorenz St		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.	
	Imitation granite		Dimensions	150mm wide x 300mm long x 100mm thick.	
	sett precast concrete blocks. Anti-	,, <u> </u>	Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.	
	shift units.		Lower arris	BS EN 1338:2003 Square	
	Silver grey to		Facing layer thickness	BS EN 1338:2003 ≥ 6mm	
	BS EN 1338:2003 B-PC(AS)-G1a	SS EN 338:2003		Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include substantial nibs located at regular ≤ 42mm centres so as to interlock between nibs of opposing units. Each nib to protrude by 3mm from side of unit and be approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 - 15mm recessed beneath upper face. Method of interlock to be such that individual units may still be removed by vertical lifting following installation.
			Colour	Facing layer overall colour when viewed from a distance of 2m is silver grey as Munsell Colour (Neutral Scale) N 7.25/_46.8% R. Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey.	
		20% G1c in a	Density of facing	BS EN 1338:2003.≥ 375kg/m ³	
	Bond running perpendicular to	stretcher Bond running perpendicular to the dominant carriageway	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter.	
			Water absorption	BS EN 1338:2003 Class 2(B)	
			Abrasion resistance	BS EN 1338:2003 Class 4(I)	
			Freeze/thaw	BS EN 1338:2003 Class 3(D)	



SSDW Rev 9.	. November 2022		Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing
			Traffic bonding	Side face nib and base face treatments to achieve sufficient frictional interlock
			requirement	between units and laying course to permit laying as BS 7533-1:2001 in sites
				experiencing 3 million design life standard axles or greater in stretcher bond
_				and without intermediary restraints.
	Imitation granite		Dimensions	150mm wide x 300mm long x 100mm thick.
	sett precast		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm
	concrete			horizontal chamfer dimension. Chamfer to be flat as moulded then lightly
	blocks. Anti-			abraded due to texturisation for upper face of unit.
	shift units. Mid	V SECTION SECTION	Lower arris	BS EN 1338:2003 Square
	grey to BS EN 1338:2003		Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	B-PC(AS)-G1b		Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include
	D-1 O(AO)-O1D)		substantial nibs located at regular ≤ 42mm centres so as to interlock between
	Mixed with			nibs of opposing units. Each nib to protrude by 3mm from side of unit and be
	Wilkou With			approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 -
				15mm recessed beneath upper face. Method of interlock to be such that
		To be laid in an		individual units may still be removed by vertical lifting following installation.
		evenly	Colour	Facing layer overall colour when viewed from a distance of 2m is mid grey as
		distributed mix		Munsell colour (neutral scale) N 6.0 /_30.0% Grey, black and white grains to
		of 20% G1a,		stand out from back ground colour. Bed face and sides beneath facing layer:
		60% G1b and	Density of facing	generic grey.
		20% G1c in a	Density of facing	BS EN 1338:2003.≥ 375kg/m ³
		stretcher Bond running	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
		perpendicular to		layer to be ≥ 50% exposed stent (or other secondary granite aggregates.
		the dominant carriageway edge.		Facing layer may also include blast furnace slag or recycled aggregates in
				imitation of natural stone granite. Monochrome salt and pepper appearance.
				Crushed granite and other face mix materials to be 1 -3mm in diameter with
		ougo.		none exceeding 5mm. Even overall distribution of different grain types. Close
				distribution of matic granules with typical spacing of 0.4 - 0.75mm between
				matic granules > 1mm in diameter. Typical spacing between glinting mica
			\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	imitation granules not to exceed 10mm between granules > 0.5mm diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.



			Traffic bonding	Side face nib and base face treatments to achieve sufficient frictional interlock
			requirement	between units and laying course to permit laying as BS 7533-1:2001 in sites
				experiencing 3 million design life standard axles or greater in stretcher bond
_				and without intermediary restraints.
	Imitation granite		Dimensions	150mm wide x 300mm long x 100mm thick.
	sett precast		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm
	concrete			horizontal chamfer dimension. Chamfer to be flat as moulded then lightly
	blocks. Anti-			abraded due to texturisation for upper face of unit.
	shift units. Dark	SHIRATERENGERANDA	Lower arris	BS EN 1338:2003 Square
	grey to BS EN	/	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
	1338:2003		Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include
	B-PC(AS)-G1c			substantial nibs located at regular ≤ 42mm centres so as to interlock between
				nibs of opposing units. Each nib to protrude by 3mm from side of unit and be
		<u> </u>		approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 -
				15mm recessed beneath upper face. Method of interlock to be such that
		To be laid in an		individual units may still be removed by vertical lifting following installation.
		evenly	Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as
		distributed mix		Munsell colour (neutral scale) N 5 /_19.8%R. Grey, black and white grains to
		of 20% G1a,		stand out from back ground colour. Bed face and sides beneath facing layer:
		60% G1b and		generic grey.
		20% G1c in a stretcher Bond running perpendicular to the dominant carriageway	Density of facing	BS EN 1338:2003.≥ 375kg/m ³
			Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
				layer to be ≥ 50% exposed stent (or other secondary granite aggregates.
				Facing layer may also include blast furnace slag or recycled aggregates in
				imitation of natural stone granite. Monochrome salt and pepper appearance.
		edge.		Crushed granite and other face mix materials to be 1 -3mm in diameter with
		euge.		none exceeding 5mm. Even overall distribution of different grain types. Close
				distribution of matic granules with typical spacing of 0.4 - 0.75mm between
				matic granules > 1mm in diameter. Typical spacing between glinting mica
			NA () ()	imitation granules not to exceed 10mm between granules > 0.5mm diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.
			Traffic bonding	Side face nib and base face treatments to achieve sufficient frictional interlock
			requirement	between units and laying course to permit laying as BS 7533-1:2001 in sites



SSDIVI REV	3. November 2022			experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.
Parking Bay Surface	Bituminous mixture surface course	Local Communities Local Communi	As above.	As above.
	Imitation granite sett precast concrete blocks. Anti-shift units. Silver, Mid and Dark grey to BS EN 1338:2003	B-PC(AS)-G1a B-PC(AS)-G1b B-PC(AS)-G1c	As above.	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge.
Raised Table Ramp Surface and Traffic Carpet Ramp Surface	Bituminous mixture surface course	Local Consultation Local	As above.	As above.
Traffic Carpet Plateau Surface Reserve	Mix of B- PC(80)-G1a, B- PC(80)-G1b and B-PC(80)- G1c		As above.	As above. To be laid in an evenly distributed mix of proportions 60% G1a, 20% G1b and 20% G1c.
Materials	Granite sett (240x160x160). Sawn to sides.		Dimensions	Nominal (BS EN 1342:2012): 240mm long x 160mm wide x 160mm thick. Rectangular plan and section. All opposing faces planar to one another. All adjacent faces perpendicular to one another.
	Silver grey, Mid grey, Dark Grey or Grey-Red		Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.



B-NS-G4(160)-		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
SW	Natural intrusive igneous rock sett in accordance with	Texture Water absorption Abrasion resistance Freeze/thaw resistance	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians) sides (BS EN 1342:2012): Coarse textured (diamond sawn then sand blasted or bush base (BS EN 1342:2012): May be either hewn/cropped or fine textured (sawn). Higher expected value (BS EN 1342:2012): ≤ 0.35%. Higher expected value (BS EN 1342:2012): ≤ 23mm. Under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
	BS EN	Density/porosity	Open porosity - means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
	1342:2012. To be a true granite/granitoid or commercial granite.	Breaking strength	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
Granite sett (240x160x160).		Dimensions	Nominal (BS EN 1342:2012): 240mm long x 160mm wide x 160mm thickness.
Cropped to sides. Silver grey, Mid grey, Dark Grey or Grey-Red.	Natural intrusive igneous rock sett in accordance with	Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Note that the associated +/- variation is a requirement rather than a permissible tolerance in order to permit laying in arcs and avoid creation of a sheer plane. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
B-NS-G4(160)-		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
CR		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians).
	BS EN	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	1342:2012. To	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
	be a true granite/granitoid or commercial	Freeze/thaw resistance	Under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
	granite.	Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
	•	Breaking strength	Lower expected value (BS EN 1342:2012): ≥ 180 MPa.
CED Temple Setts		Dimensions	Nominal (BS EN 1342:2012): 90mm wide x 150mm depth x Varies (325, 275,225,175 and 125)



Granite sett (90 x150 x Varies) Split sides.	The state of the s	Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
Flamed top.		Colour	Bluish Grey, Blue Grey, Basalt black, Green and Red mix.
Bluish Grey, Blue Grey,	Natural intrusive	Texture	Split sides. Sawn top and bottom, Upper face subsequently coarse textured (flamed treatment).
Basalt black,	igneous rock	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Green or Red	sett in	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
mix.	accordance with BS EN	Freeze/thaw	Mean compressive strength (BS EN 1342:2012): Results to be declared.
S816-300-AAG	1342:2012. To	resistance	Change between 0 cycles and 56 cycles to be ≤ 15%.
	be a true	Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
	granite/granitoid or commercial	Breaking strength	Breaking strength, compressive strength - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
	granite.	Skid resistance	Wet mean (BS EN 1342:2012): ≥ 65 USRV
Granite sett (200x100x100).		Dimensions	Nominal (BS EN 1342:2012): 200mm long x 100mm wide x 100mm thickness (10/20/10 designation).
Sawn to sides. Silver Grey, Mid Grey, Mid Grey		Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
or Grey-Red.		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
B-NS-G3(100)-SW Granite sett (200x100x100). Cropped to sides. Silver grey, Mid Grey,	Natural intrusive igneous rock sett to BS EN 1342:2012. To be a true granite/granitoid or commercial	Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Texture - sides (BS EN 1342:2012): Coarse textured (diamond sawn then sand blasted or bush hammered/fine picked). Texture - base (BS EN 1342:2012): May be either hewn/cropped or fine textured (sawn).
Dark Grey or Grey-Red.	granite. In the case of Dark	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
B-NS-G3(100)-	Grey colour	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
CR	units may be an	Freeze/thaw	Under normal conditions - mean compressive strength (BS EN 1342:2012):
	extrusive igneous rock	resistance	Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
		Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
	basalt.	Breaking strength	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		Skid resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
		Dimensions	Nominal (BS EN 1342:2012): 200mm long x 100mm wide x 100mm thickness (10/20/10 designation).



SSDIVI Kev s	Granite sett	· BETTERSON	Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012):
	(200x100x100).		Tolcranocs	Class 2. Note that the associated +/- variation is a requirement rather than a
	Sawn to sides.			permissible tolerance in order to permit laying in arcs and avoid creation of a
	Silver Grey, Mid			sheer plane. Tolerances on undercut of sides (BS EN 1342:2012): Class 2.
	Grey, Mid Grey			Deviations on face irregularity (BS EN 1342:2012): Class 2.
	or Grey-Red.		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
	B-NS-G3(100)-	Natural intrusive	Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn
	SW	igneous rock		then bush hammered/fine picked). Where required by the Employer may be
		sett in		hewn/cropped as an alternative (generally only acceptable to areas not
		accordance with		trafficked by pedestrians). Texture - sides (BS EN 1342:2012): Hewn/cropped.
		BS EN		Texture - base (BS EN 1342:2012): Hewn/cropped.
		1342:2012.	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%
			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
			Freeze/thaw	Under normal conditions - mean compressive strength (BS EN 1342:2012):
			resistance	Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Breaking strength	Lower expected value (BS EN 1342:2012): ≥ 180 MPa.
			Skid resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
	Granite cube		Dimensions	80mm wide x 80mm long x 80mm thick. No undersized units to be included in
	(80x80x80).			delivery as units intended to be laid in stretcher or stack bond not an arc.
	Cropped to		Deviations	Deviations on face irregularity (BS EN 1342:2012): Class 2.
	sides. For	- 11 11	Tolerance	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012) :
	laying in stretcher / stack bond. Silver			Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2
			Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
	Grey, Mid Grey,		Appearance	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To
	Dark Grey or			be a true granite, granitoid or commercial granite. In the case of Dark Grey
	Grey-Red.			colour units may be an extrusive igneous rock basalt.
	B-NS-G2(80)-		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn
	CR-STR			then bush hammered/fine picked). Where required by the Employer may be
				hewn/cropped as an alternative. Sides and base (BS EN 1342:2012):
				Hewn/cropped (generally only acceptable to areas not trafficked by
			Drooking lood	pedestrians).
			Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm Freeze/thaw resistance, under normal conditions - mean compressive strength
			Weathering resistance	(BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56
			I COIOLAI IUC	cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
			Slip resistance	Wet theat (DO LN 1042.2012). 2 10 OORV



			Density	Apparent density and open porosity - means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
80x80	te cube 0x80mm to BS EN 2012		Dimensions	80mm wide x 80mm long x 80mm thick (8/8/8 designation). For laying in arcs. Undersize units: Units to be produced for laying in arc patterns with 5% of units included in delivery having lengths and widths smaller than the permitted minimums dimensional tolerances (e.g. smaller than 80mm).
B-NS- CR/AF	-G2(80)- RC	For laying in arcs.	Tolerances	Normal plan dimensions and thickness, undercut of sides and deviations on face irregularity to BS EN 1342:2012 Class 2
		S. 55.	Colour	Silver grey, mid grey, dark grey or grey-red.
			Texture	Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by employer may be hewn/cropped as an alternative (only acceptable in areas not trafficked by pedestrians).
			Water absorption	Higher expected value BS EN 1342:2012 ≤ 0.35%
			Abrasion resistance	Higher expected value BS EN 1342:2012 ≤ 23mm
			Freeze/thaw	Under normal conditions mean compressive strength (BS EN 1342:2012)
			resistance	results to be declared, Change between 0 cycles and 56 cycles to be ≤ 15%
		Density/porosity	BS EN 1342:2012 ≥ 2500kg/m ³ / ≤ 1.25%	
			Breaking strength	Lower expected value BS EN 1342:2012 ≥ 180 MPa
Yorkst		Sedimentary carboniferous sandstone sett to	Dimensions	Nominal (BS EN 1338:2003): 100mm long x 100mm wide x 75mm thick.
	al stone		Upper/lower arris	(BS EN 1338:2003): Square/sharp.
cube	400-75)		Tolerance	Dimensional tolerances: As BS EN 1338:2003.
Grey b	100x75). blue buff. (75)-Y81		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
			Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
	BS EN 1342: 2012. Caution should be exercised using these units within carriageway areas as York	Texture	(BS EN 1338:2003): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.	
		Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 125 MPa.	
		Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.	
		Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.	
		stone tends to	Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV

	stain heavily with	Density	Means (BS EN 1342:2012): ≥ 2400 kg/m3 / ≤ 5.75%.
	vehicle over-run.	Water absorption	(BS EN 1342:2012): ≤ 2%.
Yorkstone		Dimensions	Nominal (BS EN 1338:2003): 200mm long x 100mm wide x 75mm thick.
natural stone		Upper/lower arris	(BS EN 1338:2003): Square/sharp.
cube		Tolerance	Dimensional tolerances: As BS EN 1338:2003.
(200x100x75). Grey blue buff. B-NS(75)-Y2	Sedimentary carboniferous	Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
	sandstone sett to BS EN 1342:2012	Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
	Caution should be exercised	Texture	(BS EN 1338:2003): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
	using these units within	Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 125 MPa.
	carriageway	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
	areas as yorkstone tends	Weathering resistance	(BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
	to stain heavily	Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
	with vehicle	Density	Means (BS EN 1342:2012): ≥ 2400 kg/m3 / ≤ 5.75%.
	over-run.	Water absorption	(BS EN 1342:2012): ≤ 2%.
Narrow pressed Imitation clay pavers (212x52x70).	pavers (212x52x70). Grey-buff. B-ICP-1c Units should be	Dimensions	Nominal (BS EN 1344:2002): 215mm long x 52mm wide x 70mm thick. Minor variants (+/- 4mm) on the preceding dimensions may be permitted by approving officers. Rectangular plan and section. All opposing faces planar to one another. All adjacent faces perpendicular to one another.
		Tolerances	Dimensional tolerances range (BS EN 1344:2002): Class R1. Dimensional tolerances mean (BS EN 1344:2002): Class U3.
	laid on 50mm wide face so as	Colour	Subtly varying grey-buff to all sides ranging through approximate Munsell Colours 2.5Y8/1, 2.5 7/1, 2.5Y 6/1, 2.5Y 6/2 and 2.5YR5/1
	to be 70mm	Texture	Flat faces with tumbled edges. No further texturisation.
	deep	Water absorption	(BS EN 771-1:2011): Class W3.
		Abrasion resistance	(BS EN 1344:2002): Class A3 (+).
		Freeze/thaw	(BS EN 1344:2002): Class FP100.
		Density/porosity	(BS EN 1344:2002): Class C.
		Breaking strength	Transverse breaking load (BS EN 1344:2002): Class T4
		Skid resistance	(BS EN 1344:2002): Class A1.



		Narrow	PROPERTY AND PERSONS NAMED IN	Dimensions	Nominal (BS EN 1344:2002): 185mm long x 45mm wide x 90mm thick.
		pressed	123-123-12		Minor variants (+/- 4mm) on the preceding dimensions may be permitted by
		imitation clay			approving officers. Rectangular plan and section. All opposing faces planar
		pavers	Units should be		to one another. All adjacent faces perpendicular to one another.
		(185x45x90).	laid on 50mm	Arris	Rounded/tumbled to all sides.
		Bronze.	wide face so as	Colour	Subtly varying through buff-yellow and gold within and between units, all
		B-ICP-2a	to be 70mm		with a grey patina, to approx. Munsell Colours 2.5Y 8/2, 2.5Y 8/3, 2.5Y 7/3,
			deep		2.5 Y 7/4, 2.5y 7/6 and 2.5YR 7/4.
			-	Texture	Flat faces with tumbled edges. No further texturisation.
				Water absorption	(BS EN 771-1:2011): Class W3.
				Abrasion resistance	(BS EN 1344:2002): Class A3 (+).
				Freeze/thaw	(BS EN 1344:2002): Class FP100.
				Density/porosity	(BS EN 1344:2002): Class C.
				Breaking strength	Transverse breaking load (BS EN 1344:2002): Class T3
				Acid resistance	(BS EN 1344:2002): Class C.
	Tactile	Blister tactile		Dimensions	Nominal (BS EN 1341:2012): 400mm wide x 400mm long x 80mm thick
	surfacing	granite natural			(excluding profile features).
	Controlled	stone paving		Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances
	crossing	slab (90mm			on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS
		thickness).	The state of the		EN 1341:2012): Class 2 (T2).
		Silver grey.	Natural plutonic	Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
		T(B)-NS/G(80)	micro-	Profile feature	(DD/CEN/TS 15209:2008): Type B1.
			granodiorite or	Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral
			micro-tonalite		grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided
			granitoid stone		eye at a distance of 2m under natural light to be N8.25 - N8.5, though the
			slab in accordance with		material's composition from individual white, grey and black grains should
					remain visibly evident even when viewed in this way. Dark Mafic mineral grains
			BS EN 1341:		to have lightness value of 0-1 on the Munsell Colour Scale.
			2012. Other	Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed by
			'commercial'		then unaided eye at a distance of 2m under natural light. On close inspection
			granites with less		to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to
			than 20% quartz		5mm. Size of grains to generally increase with lightness, with mafics typically
			may be accepted at the approving officer's discretion		in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm
					in size and feint quartz veining may be permissible subject to intensity and distribution. Overall distribution of grain sizes and colours to be fairly even.
				Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
			finish	Apparent density	Mean (BS EN 1341:2012): ≥ 2600kg/m³ /≤1.25%.
L			11111311	Breaking load	Flexural Strength – lower expected value (BS EN 1341:2012): ≥ 12.5Mpa.





		requirements are	Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
		met.	Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Mean (BS EN 1341:2012): ≥ 65USRV.
Tactile	Blister tactile	The seathers	Dimensions	(400mm wide x 400mm long x 75mm thick (excluding profile features).
surfacing Un - Controlled	yorkstone natural stone paving slab (75		Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
crossing	mm thickness).		Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
	Blue grey buff.	The second of	Profile feature	(DD/CEN/TS 15209:2008): Type B1.
	T(B)-NS/Y(75)		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey'
				dark grey swirls/wisps throughout. Blue-greys to be between Munsell
				Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be
				between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
			Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
			Texture	(BS EN 1341:2012): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 2.0%.
			Density & Porosity	means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
			Breaking load	Breaking strength, flexural strength - lower expected value (BS EN 1341:2012): ≥ 19.0 MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 23mm.
			Durability, freeze/	Mean flexural strength (BS EN 1341:2012): Results to be declared. Change
			thaw resistance	between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Wet - mean (BS EN 1341:2012): ≥ 75 USRV
Tactile surface	Corduroy tactile granite		Dimensions	Nominal (BS EN 1341:2012): 400mm wide x 400mm long x 80mm thick (excluding profile features).
Corduroy	natural stone paving slab (80mm		Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	thickness).		Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
	Silver grey.		Profile feature	(DD/CEN/TS 15209:2008): Type R1.
	T(C)-NS/G(80)		Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should



			remain visibly evident even when viewed in this way. Dark Mafic mineral grains
			to have lightness value of 0-1 on the Munsell Colour Scale.
		Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed by
		, ippoarance	then unaided eye at a distance of 2m under natural light. On close inspection
			to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to
			5mm. Size of grains to generally increase with lightness, with mafics typically
			in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm
			in size and feint quartz veining may be permissible subject to intensity and
			distribution. Overall distribution of grain sizes and colours to be fairly even.
		Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
		Apparent density	Mean (BS EN 1341:2012): ≥ 2600kg/m³ /≤1.25%.
		Breaking load	Flexural Strength – lower expected value (BS EN 1341:2012): ≥ 12.5Mpa.
		Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
		Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
		Slip resistance	Mean (BS EN 1341:2012): ≥ 65USRV.
Tactile	Ladder/tram	Dimensions	Nominal (BS EN 1341:2012): 400mm wide x 400mm long x 80mm thick
Surface	line tactile		(excluding profile features).
Ladder /	granite natural	Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances
Tramline	stone paving		on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS
	slab (80mm		EN 1341:2012): Class 2 (T2).
	thick). Silver	Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
	grey.	Profile feature	(DD/CEN/TS 15209:2008): Type R3.
	T(L)-NS/G(80)	Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral
			grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided
			eye at a distance of 2m under natural light to be N8.25 - N8.5, though the
			material's composition from individual white, grey and black grains should
			remain visibly evident even when viewed in this way. Dark Mafic mineral grains
			to have lightness value of 0-1 on the Munsell Colour Scale.
		Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed by
			then unaided eye at a distance of 2m under natural light. On close inspection
			to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to
			5mm. Size of grains to generally increase with lightness, with mafics typically
			in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm
			in size and feint quartz veining may be permissible subject to intensity and
		Motor observation	distribution. Overall distribution of grain sizes and colours to be fairly even.
		Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
		Apparent density	Mean (BS EN 1341:2012): ≥ 2600kg/m³ /≤1.25%.
		Breaking load	Flexural Strength – lower expected value (BS EN 1341:2012): ≥ 12.5Mpa.



			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Mean (BS EN 1341:2012): ≥ 65USRV.
Reser Footw Mater	ay Multi Yorkstone		Dimensions	Work dimensions (BS EN 1341:2012): 75mm thick. Mixed width gauges of 300/450/600/750mm. Random length though with max length: width ratio to any unit of 1.5:1.0 and vice versa.
	paving (mixed gauges and lengths, 75mm		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	thick). Grey		Upper arris	(BS EN 1341:2012): Square/sharp.
	blue buff.	This alternative	Lower arris	(BS EN 1341:2012): Square/sharp.
	F-NS(75)-Y4	natural stone	Colour	Predominantly (85-90%) blue-grey with some (10-15%) buff highlights.
	or Westfield Buff	may be used	Appearance	Hard, fine grained sandstone.
	Multi Yorkstone	instead of the Scoutmoor	Texture	Hard, fine grained sandstone.
	natural stone	Yorkstones	Compressive strength	
	paving (mixed	F-NS(75)-Y1 Or	Flexural strength	16.4 MPa
	gauges and	F-NS(75)-Y2	Weathering resistance	Freeze/thaw resistance - mean flexural strength (BS EN 1341:2012): Results
	lengths, 63mm	and		to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
	thick). Grey	F-NS(63)-Y1 Or	Slip resistance	74 wet – TLR slider test
	blue buff.	F-NS(63)-Y2 as	Water absorption	2.40%
	F-NS(63)-Y4	appropriate	Density and porosity	2473 kg/m3 typically
	Yorkstone natural stone slab paving		Dimensions	(BS EN 1341:2012): 300mm wide x 200/300/450mm random length x 75mm thick. May be used in 300x450x75mm single size where agreed in advance with approving officer.
	(300 wide x variable 200-450 length x 75		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	thick). Grey	7 4 1	Upper arris	(BS EN 1341:2012): Square/sharp.
	blue buff.		Lower arris	(BS EN 1341:2012): Square/sharp.
	F-NS(75)-Y3		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
			Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.



OCDIVI	NCV C	9. November 2022		Texture	(BS EN 1341:2012): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
				Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 19.0 MPa.
				Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 23mm.
			Weathering	Freeze/thaw resistance - mean flexural strength (BS EN 1341:2012): Results	
				resistance	to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
				Slip resistance	Slip resistance wet - mean (BS EN 1341:2012): ≥ 75 USRV
				Water absorption	Higher expected value (BS EN 1341:2012): ≤ 2.0%.
				Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
		Yorkstone natural stone cube (100x100x75). Grey blue buff. B-NS(75)-Y1		As above.	As above.
		Yorkstone natural stone cube (200x100x75). Grey blue buff. B-NS(75)-Y2		As above. Sedimentary carboniferous sandstone sett to BS EN 1342:2012	As above.
		Granite cube (80x80x80). Cropped sides. B-NS-G2(80)- CR-STR		As above.	As above. For laying in stretcher / stack bond. Silver Grey, Mid Grey, Dark Grey or Grey-Red.
		Granite sett (200x100x100). Sawn or cropped to sides. B-NS-G3(100)-SW or B-NS-G3(100)-CR		As above.	As above.



SSDIVI Rev S	Granite sett (240x160x160). Sawn or cropped to sides.		B-NS-G4(160)-SW or B-NS-G4(160)-CR.	As above.
	Narrow pressed imitations clay pavers (212x52x70). Grey-buff. B-ICP-1c		As above. Units should be laid on 50mm wide face so as to be 70mm deep	As above.
	Narrow pressed imitation clay pavers (185x45x90). Bronze. B-ICP-2a		As above. Units should be laid on 50mm wide face so as to be 70mm deep	As above.
	Granite mosaic (50x50x50).		Dimensions	Work dimensions - nominal (BS EN 1342:2012): 50mm width x 50mm length x 50mm thick (5/5/5 designation).
	Silver Grey or Mid Grey. B-NS-G1(50)-		Deviations	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
	CR		Density and porosity	Means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
		Use will only be	Colour	Silver Grey or Mid Grey
		appropriate to lightly trafficked	Appearance	Natural plutonic igneous rock sett in accordance with BS EN 1342:2012. To be a true granite, granitoid or commercial granite.
		surfaces and will require the use of a bound/rigid construction. The cropped	Texture	Texture - upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Texture – sides and base (BS EN 1342:2012): Hewn/cropped.
		upper face is not	Slip Resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
		accessible so	Breaking load	Lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		alternative paths	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		for vulnerable pedestrians.	Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.



		Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Imitation Granite	Only likely as a	Dimensions	Mix of 208 and 173mm long x 173mm long x 60mm thick.
Setts precast	no dig pavement	Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to
concrete blocks	construction		upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical.
Infiltration joint	over rooting	Facing layer	BS EN 1338:2003 ≥ 6mm
units. Silver	zones of existing	Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
grey. 208/173x173x60	trees.		of jointing material. Extent of nib protrusion ≥ 6mm
B-PC(W60)-G1a	The state of the s	Colour	Facing layer overall colour when viewed from a distance of 2m is silver grey as Munsell colour (neutral scale) N 7.25/_46.8%R. Grey, black and white and glassy aggregate grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey
		Density of facing	BS EN 1338:2003.≥ 375kg/m ³
		Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted & to be ≥ 50% exposed stent. Facing layer may also include blast furnace slag/recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite face mix materials to be 1-3mm diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter.
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
		Freeze/thaw	BS EN 1338:2003 Class 3(D)
		Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
		manufacture	minimum of 12 hours to reduce risk of efflorescence before packing
Imitation Granite		Dimensions	Mix of 208 and 173mm long x 173mm long x 60mm thick.
Setts precast		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to
concrete blocks			upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical
Infiltration joint		Facing layer	BS EN 1338:2003 ≥ 6mm
units. Mid grey.		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
208/173x173x60 B-PC(W60)-G1b			of jointing material. Extent of nib protrusion ≥ 6mm
B-PC(4400)-G1D		Colour	Facing layer overall colour when viewed from a distance of 2m is mid grey as
			Munsell colour (neutral scale) N 6/_30.0%R. Grey, black and white and glassy
			aggregate grains to stand out from back ground colour. Bed face and sides
	Only likely as a	Density of C	beneath facing layer: generic grey
		Density of facing	BS EN 1338:2003.≥ 375kg/m ³



SSDM Rev 3.	NOVEMBEL 2022	no dig pavement construction over rooting zones of existing trees.	Water absorption Abrasion resistance Freeze/thaw	Flat to all faces (except nibs). Facing layer to be lightly shot blasted & to be ≥ 50% exposed stent. Facing layer may also include blast furnace slag/recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite face mix materials to be 1-3mm diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. BS EN 1338:2003 Class 2(B) BS EN 1338:2003 Class 3(H) or Class 4(I) BS EN 1338:2003 Class 3(D)
			Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing
	Imitation Granite		Dimensions	Mix of 208 and 173mm long x 173mm long x 60mm thick.
	Setts precast concrete blocks		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical
	Infiltration joint		Facing layer	BS EN 1338:2003 ≥ 6mm
	units. Dark grey.		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
	208/173x173x60	TOTAL CONTRACTOR STATE OF THE PARTY OF THE P	•	of jointing material. Extent of nib protrusion ≥ 6mm.
	B-PC(W60)-G1c		Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as Munsell colour (neutral scale) N 5/_19.8%R. Grey, black and white and glassy aggregate grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey.
		Only likely as a	Density of facing	BS EN 1338:2003.≥ 375kg/m ³
		no dig pavement construction over rooting zones of existing trees.	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted & to be ≥ 50% exposed stent. Facing layer may also include blast furnace slag/recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite face mix materials to be 1-3mm diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing.





Sharp sand bedding sand Sharp sand bedding for unbound footway concrete stabs, natural stone flags and concrete blocks or clay pavers L-SS1 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ6 Quartz arenit		9: November 2022			SUIIIMA ALYACA
sand drootway concrete stabs, natural stone flags and concrete blocks or clay pavers L-SS1 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-Q24 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q24 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-Q24 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-Q24 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-Q24 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-Q24 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-Q256 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q266 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q266 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q286 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q286 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q296 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q296 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q296 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q296 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q296 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q296 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-Q296		•			
footway concrete stabs, natural stone flags and concrete blocks or clay pavers L-SS1 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 ADZ Sulphur Content (and density) Sulphur content (by mass)				,	
concrete stabs, natural stone flags and concrete blocks or clay pavers L-SS1 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Abrasion resistance Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. < 1 - 2% fines. Alv Aggregate Impact Value < 30% loss Flakiness Value - 2000kg/m³ Sulphur Content - 2000kg/m³ Sulphur Con	sand			Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
natural stone flags and concrete blocks or clay pavers L-SS1 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ276 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ276 Quartz ar		,		AIV	Aggregate Impact Value < 30%
flags and concrete blocks or clay pavers L-SS1 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 To be laid 50mm thick Flakiness Value Light final as BS EN 12620, less than 1% passing 0.063mm sieve. Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. < 1 - 2% fines. Alv Aggregate Impact Value < 30% loss Flakiness Value Los Angeles Value < 30% loss Flakiness Value Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size Particle size 2 - 6mm Oven dried density 22000kg/m³ Sulphur Content Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size 2 - 6mm Oven dried density 2 2000kg/m³ Sulphur Content 4 Aggregate Impact Value < 30% Abrasion resistance Los Angeles Value < 30% loss Flakiness Value Flakiness V		•	12	Abrasion resistance	Los Angeles Value <30% loss
concrete blocks or clay pavers L-SS1 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 I Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. < 1 - 2% fines. Alv Aggregate Impact Value < 30% Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size 1 - 4mm Oven dried density < 30 Fines Value 51,0 as BS EN 12620, less than 1- 2% passing 0.063mm sieve. Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size 2 - 6mm Oven dried density >2000kg/m³ Sulphur Content Alv Aggregate Impact Value < 30% Abrasion resistance Los Angeles Value < 30% Filakiness Value 530				Flakiness Value	< 30
or clay pavers L-SS1 Salt with no organic matter to BS EN 12620.2013 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ60 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks			dredged coarse	Elongation Index	< 30
Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ2/6 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ2/6 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ2/6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 AlV AlV Aggregate Impact Value < 30% (and soluble sulphur content < 0.8% by mass) AlV Aggregate Impact Value vartz sand composed of > 90% quartz, chert or quartose rock flakiness Value Fines Value 1,0 as BS EN 12620, less than 1- 2% passing 0.063mm sieve.		or clay pavers		Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ26 Quartz arenite sand bedding for unbound for the clay by mass (Acid soluble suppart content <0.8% by mass) Quartz arenite sand bedding for unbound for the clay by mass (Acid soluble suppart content <0.8% by mass) Quartz arenite sand bedding for unbound for the clay by mass (Acid soluble suppart content <0.8% by mass (Acid soluble		L-SS1	organic matter to		
sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 Capta			_		
for unbound carriageway concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 To be laid 50mm thick Particle size 1 - 4mm				Description	
Carriageway concrete blocks or clay pavers L-QZ4 April				5	
concrete blocks or clay pavers L-QZ4 Sulphur Content < 1% by mass. (Acid soluble sulphur content <0.8% by mass)					
or clay pavers L-QZ4 AlV Aggregate Impact Value < 30% Los Angeles Value <30% loss Flakiness Value Elongation Index Sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 AlV Abrasion resistance Elongation Index Aggregate Impact Value < 30% Elongation Index Aggregate Impact Value < 30% Fines Value Flakiness Value Flakiness Value Flakiness Value Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hards particles to prevent fragmentation. Particle size Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hards particles to prevent fragmentation. Particle size Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hards particles to prevent fragmentation. Particle size Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hards particles to prevent fragme			其是"水"从"高	,	<u> </u>
Abrasion resistance Los Angeles Value <30% loss Flakiness Value Cuartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 L-QZ2/6 Abrasion resistance Los Angeles Value <30% loss Flakiness Value Cos Angeles Value <30% loss					
Abrasion resistance Flakiness Value Cuartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 Abrasion resistance Flakiness Value Flakiness Value Flakiness Value Cuartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 To be laid 50mm thick Abrasion resistance Los Angeles Value < 30 Flakiness Value Flakiness Value Core fragments. Very hard particles to prevent fragmentation. Particle size Comm Oven dried density Sulphur Content Coven dried density Aggregate Impact Value < 30% Abrasion resistance Los Angeles Value < 30% Flakiness Value F					
Elongation Index < 30 Fines Value		L-QLT	CATHER 1		
Fines Value Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 Fines Value Fines					
Quartz arenite sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 To be laid 50mm thick Description Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. Particle size 2 - 6mm Oven dried density >2000kg/m³ Sulphur Content <1% by mass. (Acid soluble sulphur content <0.8% by mass) AlV Aggregate Impact Value < 30% Abrasion resistance Los Angeles Value <30% loss Flakiness Value Elongation Index 5 - 6mm Coven dried density Sulphur Content Content				Ü	
sand bedding for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 To be laid 50mm thick fragments. Very hard particles to prevent fragmentation. Particle size 2 - 6mm Oven dried density >2000kg/m³ Sulphur Content < 1% by mass. (Acid soluble sulphur content <0.8% by mass) AlV Abgregate Impact Value < 30% Abrasion resistance Los Angeles Value <30% loss Flakiness Value Elongation Index Fines Value f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.					
for unbound permeable carriageway concrete blocks or clay pavers L-QZ2/6 To be laid 50mm thick Particle size 2 - 6mm Oven dried density >2000kg/m³ Sulphur Content < 1% by mass. (Acid soluble sulphur content <0.8% by mass) AlV Aggregate Impact Value < 30% Abrasion resistance Los Angeles Value <30% loss Flakiness Value				Description	
permeable carriageway concrete blocks or clay pavers L-QZ2/6 To be laid 50mm thick Elongation Index					
carriageway concrete blocks or clay pavers L-QZ2/6 To be laid 50mm thick Sulphur Content			Tara Janes		
concrete blocks or clay pavers L-QZ2/6 To be laid 50mm thick AlV Abrasion resistance Los Angeles Value < 30% loss Flakiness Value Flongation Index Fines Value Fines V		•	基础内部 加强		Ÿ
or clay pavers L-QZ2/6 To be laid 50mm thick Abrasion resistance Flakiness Value 41V Aggregate impact Value < 30% Los Angeles Value <30% loss Flakiness Value Elongation Index Fines Value f_{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve. 					
To be laid 50mm thick Flakiness Value					
thick Flakiness Value < 30					
Fines Value f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.		L-QZZIO			
			TNICK	ŭ	< 30
	Unbound	Sharp sand		Particle size	0 – 4mm
jointing jointing sand for Oven dried density >2000kg/m³					Ŭ
sand unbound Sulphur Content < 1% by mass. (Acid soluble sulphur content <0.8% by mass)	sand				< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
footway AIV Aggregate Impact Value < 30%		_		AIV	
concrete stabs, Abrasion resistance Los Angeles Value <30% loss		concrete stabs,		Abrasion resistance	Los Angeles Value <30% loss



SSDW K	natural stone		Flakiness Value	< 30
	flags and	and the	Elongation Index	< 30
	concrete blocks		Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	or clay pavers			3 · · · · · · · · · · · · · · · · · · ·
	L-SS1			
		Primarily sea		
		dredged coarse		
		sand or washed grit sand with no		
		organic matter to		
		BS EN		
		12620:2013		
	Stabilised	For use where	2 options	Sharp sand as above with a water miscible stabilising jointing liquid.
	jointing sand for	there might be		A dry sharp sand and cement mix, brushed into the joints and then moistened
	unbound footway	cleansing issues (vacuum		with water
	concrete stabs,	cleaners sucking		
	natural stone	out jointing		
	flags and	sand).		
	concrete blocks	,		
	or clay pavers			
	L-X1			
	Stabilised jointing gravel	For use with wider joints.	options	0 - 8mm gravel with a water miscible stabilising jointing liquid.
	for unbound	-		A dry 0 - 8mm gravel and cement mix, brushed into the joints and then
	footway			moistened with water.
	concrete stabs,			
	natural stone flags &			
	concrete blocks			
	or clay pavers			
	L-X2			
Bedding	Bedding mortar	Paving stooms instal Talgoli cinhilas - geometry storius	Minimum Flexural	30 MPa
mortar	for bound	bodding motion - preneg worlar - SubVision	strength	
	construction		Minimum	50 N/mm ²
	L-MH1		Compressive	
			Strength	
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm



November 2022	BS 7533-	Chloride Ion content	≤ 0.1% of mass
	4/2006, Table 4, clause 5.4.4.1	Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
		Water absorption	Of mixed mortar ≤ 0.4%
Bedding mortar for bound construction	Hong drawn burst. January store. January store. January store. January store. January store. January store.	Minimum Compressive strength	25 N/mm ²
L-MH2	BS 7533-10	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	/2004 Type B	Chloride Ion content	≤ 0.1% of mass
	72004 Type D	Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Bedding mortar for bound	Peolig uteres-lusted - peolig partie - bedding marter - peoling partie - peoling partie - Substate	Min. Compressive strength	40 N/mm ²
construction		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
L-MH3	BS 7533-10	Chloride Ion content	≤ 0.1% of mass
	/2004 Type A	Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Rapid set		Curing time	1 hour to reach structural strength 40 N/mm ²
bedding mortar		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
		Chloride Ion content	≤ 0.1% of mass



CODIN TOV	for bound	Paving stones/setts/flags/sobb	Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
	construction	bedding morter	Cement	Portland Cement CEM1 complying with BSEN 197-1
	L-MHX		Water cement ratio	≤ 0.4
			Water sulphate	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
			content	waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Weak bedding	For use where	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	mortar for	there is no vehicle overrun. Plastic Mortar: Class M12 to BS	Chloride Ion content	≤ 0.1% of mass
	bound		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
	construction		Cement	Portland Cement CEM1 complying with BSEN 197-1
	L-MWK12		Water cement ratio	≤ 0.4
		EN 998-2: 2005 (e.g. a 1:3	Water sulphate	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
		(e.g. a 1:3 cement:sand	content	waters), to BS EN 1008.
		mix)	Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Bound	Jointing mortar	BS 7533-10	Min. Compressive	50 N/mm ²
jointing	for bound	/2004	Strength	
mortar	construction	5 -8mm joint gap	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	J-MH1		Chloride Ion content	\leq 0.1% of mass
			Acid soluble sulphate	(SO ₄) ≤ 5% of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Jointing mortar	BS 7533-10	Min. Compressive	25 N/mm ²
	for bound	/2004	strength	
	construction		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	J-MH2		Chloride Ion content	\leq 0.1% of mass
			Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate	(As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
			content	waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.



	Cout	hwarK
(> 50 m	Council wark novuk

SSDIVI Rev	lointing mortar	BS	7533-10	Min. Compressive	40 N/mm ²
	Jointing mortar for bound	/2004		strength	40 N/IIIII-
	construction	72001		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	J-MH3			Chloride Ion content	≤ 0.1% of mass
				Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
				Cement	Portland Cement CEM1 complying with BSEN 197-1
				Water cement ratio	≤ 0.4
				Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
	Rapid set	BS	7533-10	Curing time	1 hour to reach structural strength 40 N/mm ²
	jointing mortar	/2004		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	for bound			Chloride Ion content	≤ 0.1% of mass
	construction J-MHX			Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
	J-IVITA			Cement	Portland Cement CEM1 complying with BSEN 197-1
				Water cement ratio	≤ 0.4
				Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
				Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
				Water absorption	Of mixed mortar ≤ 0.4%
Permeabl e Jointing	Quartz Arenite jointing sand for			Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation.
Sand	permeable	,		Particle size	2 – 4mm
C G. 1 G.	joints J-QZ2/4			Oven dried density	>2000kg/m ³
				Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
				AIV	Aggregate Impact Value < 30%
				Abrasion resistance	Los Angeles Value <30% loss
				Flakiness Value	< 30
				Elongation Index	< 30
				Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.



6 World Centre **Specification Area**

In the World Centre Specification areas of Southwark, the carriageways are bituminous or natural stone setts. The footway is a single type of flag paving (including the plateaus of vehicle accesses) and one or more types of block paver used to raised tables, inset parking bays and the plateaus of heavily used vehicle accesses. There are two options for the paving flags, Yorkstone Flag paving, which is also the preferred paving material for Heritage Areas, or natural granite flag paving.

The World Centre areas can often coincide with Heritage areas, for example historic areas of the Thames waterfront subjected to significant tourist volumes. Where this occurs the World Centre Option A Surfacing Materials Palette shall always be preferred.

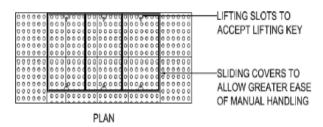


Where the World Centre area does not coincide with a Heritage Area (i.e. where the buildings are more modern and not historic), then the World Centre Option B Surfacing materials Palette may be used as well as the Option A Surfacing Materials Palette providing the agreement is given by approving officers of Southwark Council.



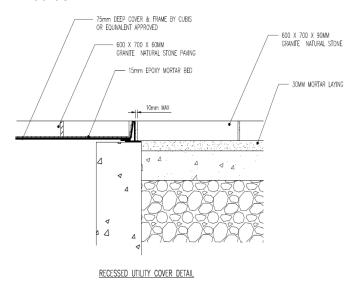
In these higher profile footways there is always a preference for recessed covers and frames to be used.





UTILITY COVER ARRANGEMENTS IN BLISTER PAVING

It should be noted that there may be an additional maintenance cost when requiring recessed covers for statutory undertakers' apparatus. Some utility companies will only undertake to maintain the standard covers, and not the recessed frames. A commuted sum may be required to cover the additional maintenance burden.



Granite kerbs laid 300mm wide are preferred for the World centre area.



Appearance: the colour, veining, texture, etc. of the natural stone shall be identified visually, typically by a reference sample of the same stone suitable for providing a general description of visual appearance. A reference sample shall be provided by the supplier of the stone according to BS EN 1341:2012.

A reference sample shall be an adequate number of pieces (typically three pieces) of natural stone of sufficient size to indicate the general appearance of the finished work. The dimensions of individual pieces shall be at around 300mm by 300mm and shall indicate the range of appearance regarding the colouring. the vein pattern, the physical structure and the surface finish. In particular the reference sample shall show specific characteristics of the stone, such as typical holes, glass seams, spots, crystalline veins and rusty spots. The reference sample does not imply strict uniformity between the sample itself and the actual supply; natural variations may always occur. If the processing of the stone involves the use of patching, fillers or other similar products for natural holes, faults or cracks, then the reference sample shall similarly display the impact of the same on the finished surface. All the characteristics as shown by the reference sample shall be considered typical of the stone and not as flaws, therefore they shall not become a reason for rejection, unless their concentration becomes excessive and the typical character of the stone is lost.

The name and address of the manufacturer or the supplier of the stone, as well as the denomination of the stone in accordance with Section 4.1 of BS EN 1341:2012 and/or information on the treatment in accordance with section 4.1.2 or the above standard shall be indicated on the reference sample. Any comparison between production sample and reference sample shall be carried out by placing the reference sample against the production samples and viewing them at a distance of about 2m under normal daylight conditions and recording any visible differences in the characteristics of the stones.



6.1	World Centre - Option A - Surfacing Materials Palette			
Heavy overrun footway	Yorkstone natural stone slab paving		Dimensions	Work dimensions (BS EN 1341:2012): 75mm thick. Mixed width gauges of 300/450/600/750mm. Random length though with max length: width ratio to any unit of 1.5:1.0 and vice versa.
	(mixed gauges and lengths, 75mm thick).		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	Grey blue buff.	1	Upper arris	(BS EN 1341:2012): Square/sharp.
	F-NS(75)-Y1	10-1	Lower arris	(BS EN 1341:2012): Square/sharp.
	Or Yorkstone		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
	natural stone slab paving (single size, 600x750x75mm thick). Grey blue buff.		Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
			Texture	(BS EN 1341:2012): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
	F-NS(75)-Y2		Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 19.0 Mpa.
	1 -143(73)-12		Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 23mm.
			Weathering	Durability, freeze/thaw resistance - mean flexural strength (BS EN 1341:2012):
			resistance	Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Slip resistance wet - mean (BS EN 1341:2012): ≥ 75 USRV
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 2.0%.
			Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
Light overrun footway	Yorkstone natural stone slab paving		Dimensions	Work dimensions (BS EN 1341:2012): 63mm thick. Mixed width gauges of 300/450/600/750mm. Random length though with max length: width ratio to any unit of 1.5:1.0 and vice versa.
	(mixed gauges and lengths, 63mm thick).	Use may be	Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	Grey blue buff.	permitted if it can		(BS EN 1341:2012): Square/sharp.
	F-NS(63)-Y1	be demonstrated	Lower arris	(BS EN 1341:2012): Square/sharp.
	Or	that achievable	Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey'
	Yorkstone natural stone	cover is limited and a non-visual		dark grey swirls/wisps throughout. Blue-greys to be between Munsell colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between
	slab paving	intrusive edge		Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.



GODIN TOO	(single-size 600x750x63). Grey blue buff. F-NS(63)-Y2	restraint can be designed into the pavement to transition from the thicker slabs used to Heavy Overrun areas. Unit aspect (e.g. Y1 or Y2) should match that used to zone	Appearance Texture Breaking load Abrasion resistance Weathering resistance Slip resistance Water absorption	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout. (BS EN 1341:2012): Fine textured (sawn to all sides). Shall not be flamed or shot blasted. Flexural strength - lower expected value (BS EN 1341:2012): ≥ 19.0 Mpa. Higher expected value (BS EN 1341:2012): ≤ 23mm Freeze/thaw resistance - mean flexural strength (BS EN 1341:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%. Slip resistance wet - mean (BS EN 1341:2012): ≥ 75 USRV Higher expected value (BS EN 1341:2012): ≤ 2.0%.
Main footway/	Yorkstone natural stone		Density and porosity Dimensions Deviations	Means (BS EN 1341:2012): \geq 2400 kg/m3 / \leq 5.75% Various width x 750mm long x 90mm thick Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).
footpath surface	slab paving (mixed gauges		Upper arris Lower arris	Upper arris (BS EN 1341:2012): Square/sharp. Lower arris (BS EN 1341:2012): Square/sharp.
channel	75mm thick). Grey blue buff. F-NS(75)-Y1 Or Yorkstone natural stone slab paving (single size, 600x750x75mm	Slabs cut to appropriate width to form surface channel detail.	Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should remain visibly evident even when viewed in this way. Dark Mafic mineral grains to have lightness value of 0-1 on the Munsell Colour Scale.
			Appearance	Natural plutonic micro-granodiorite or micro-tonalite granitoid stone slab in accordance with BS EN 1341:2012. Other 'commercial' granites with less than 20% quartz may be accepted at the approving officer's discretion providing general finish requirements are met.
	thick). Grey blue buff.		Texture	Texture (BS EN 1341:2012): Fine textured (diamond sawn) to all sides. Upper face subsequently coarse textured (flamed treatment).
	F-NS(75)-Y2		Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 12.5 MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Wet – mean (BS EN 1341:2012): ≥ 65 USRV.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
			Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
Trim	Yorkstone		Dimensions	Nominal (BS EN 1338:2003): 100mm long x 100mm wide x 75mm thick.
	natural stone cube		Deviations	Dimensional tolerances: As BS EN 1338:2003.
	Cube		Upper arris	(BS EN 1338:2003): Square/sharp.



	00x100x75).		Lower arris	(BS EN 1338:2003): Square/sharp.
	rey blue		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey'
	uff.			dark grey swirls/wisps throughout. Blue-greys to be between Munsell
B-I	NS(75)-Y1	NEE S		Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be
		A DOMESTIC		between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
			Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
			Texture	(BS EN 1338:2003): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
			Breaking load	Breaking strength, compressive strength - lower expected value (BS EN 1342:2012): ≥ 125 MPa.
			Abrasion resistance	higher expected value (BS EN 1342:2012): ≤ 23mm.
			Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV.
			Water absorption	Water absorption (BS EN 1342:2012): ≤ 2%.
			Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
	ranite cube 0x80x80mm		Dimensions	80mm wide x 80mm long x 80mm thick (8/8/8 designation). For laying in stretcher bond or stack bond.
134	ey to BS EN 342:2012		Tolerances	Normal plan dimensions and thickness, undercut of sides and deviations on face irregularity to BS EN 1342:2012 Class 2
	NS-G2(80)-	2 3 4 5 4 6 E	Colour	Silver grey, mid grey, dark grey or grey-red.
CR	R/STR	For use as part of raised kerb	Texture	Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by employer may be hewn/cropped as an alternative (only acceptable in areas not trafficked by pedestrians).
		edge to tree pits	Water absorption	Higher expected value BS EN 1342:2012 ≤ 0.35%
		and planting	Abrasion resistance	Higher expected value BS EN 1342:2012 ≤ 23mm
		areas or raised	Freeze/thaw	Mean compressive strength (BS EN 1342:2012) results to be declared,
		lip kerb edge to	resistance	Change between 0 cycles and 56 cycles to be ≤ 15%
		staggered	Density/porosity	BS EN 1342:2012 ≥ 2500kg/m ³ / ≤ 1.25%
		crossings	Breaking strength	Lower expected value BS EN 1342:2012 ≥ 180 MPa



Vehicle crossing plateau surface Occasion al use	Yorkstone natural stone slab paving F-NS(75)-Y1 Or F-NS(75)-Y2		As above (mixed gauges and lengths, or (single size, 600x750x75mm thick). Grey blue buff.	As above.
Vehicle crossing plateau	Granite sett (200x100x100). Sawn to sides.		Dimensions Tolerances	Nominal (BS EN 1342:2012): 200mm long x 100mm wide x 100mm thickness (10/20/10 designation). Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012):
surface Frequent	Silver Grey, Mid Grey, Mid Grey			Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
use	or Grey-Red.		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
	B-NS-G3(100)- SW To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To be a true	Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Texture - sides (BS EN 1342:2012): Coarse textured (diamond sawn then sand blasted or bush hammered/fine picked). Texture - base (BS EN 1342:2012): May be either hewn/cropped or fine textured (sawn).
	Grey and 20%	granite/granitoid or commercial	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	Dark Grey.	granite. In the	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		case of Dark Grey colour units	Freeze/thaw resistance	Under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
		may be an	Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
		extrusive igneous	Broaking off origin	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		rock basalt.	Skid resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
	Granite sett (200x100x100).	Natural intrusive igneous rock	Dimensions	Nominal (BS EN 1342:2012): 200mm long x 100mm wide x 100mm thickness (10/20/10 designation).
	Cropped to sides. Silver grey, Mid Grey, Dark Grey or Grey-Red.		Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Note that the associated +/- variation is a requirement rather than a permissible tolerance in order to permit laying in arcs and avoid creation of a sheer plane. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
	B-NS-G3(100)-		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
	CR To be laid in an evenly	sett in accordance with	Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not



	distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.	BS EN 1342:2012.	Water absorption Abrasion resistance Freeze/thaw resistance Density/porosity Breaking strength Skid resistance	trafficked by pedestrians). Texture - sides (BS EN 1342:2012): Coarse textured (diamond sawn then sand blasted or bush hammered/fine picked). Texture - base (BS EN 1342:2012): May be either hewn/cropped or fine textured (sawn). Higher expected value (BS EN 1342:2012): ≤ 0.35%. Higher expected value (BS EN 1342:2012): ≤ 23mm. Under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%. (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25% Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa. Wet mean (BS EN 1342:2012): ≥ 70 USRV
Vehicle crossing ramp surface	Granite sett (200x100x100). B-NS-G3(100)- CR or B-NS-G3(100)- SW		As above. Cropped or sawn to sides.	As above. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey. Natural intrusive igneous rock sett in accordance with BS EN 1342:2012.
Main Carriage way surface	Bituminous mixture surface course	Local Commission Local Commis		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
	Granite sett (240x160x160). Sawn to sides.		Dimensions	Nominal (BS EN 1342:2012): 240mm long x 160mm wide x 160mm thick. Rectangular plan and section. All opposing faces planar to one another. All adjacent faces perpendicular to one another.
	Silver grey, Mid grey, Dark Grey or Grey-Red		Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
	B-NS-G4(160)- SW	Natural intrusive	Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey. Other colour mixtures may be permitted or instructed by Approving Officers.
		igneous rock sett in accordance with BS EN	Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not



CODIVI TROVE	3. November 2022	1342:2012. To be		trofficked by podestrions) sides (BC EN 4343:3043). Coorse touture delicated
				trafficked by pedestrians) sides (BS EN 1342:2012): Coarse textured (diamond
		a true		sawn then sand blasted or bush base (BS EN 1342:2012): May be either
		granite/granitoid		hewn/cropped or fine textured (sawn).
		or commercial	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
		granite. In the	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		case of Dark	Freeze/thaw	Under normal conditions - mean compressive strength (BS EN 1342:2012):
		Grey colour units	resistance	Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
		may be an	Density/porosity	Open porosity - means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
		extrusive igneous	Breaking strength	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		rock basalt.	Dimensions	Nominal (BS EN 1342:2012): 240mm long x 160mm wide x 160mm thick.
				Rectangular plan and section. All opposing faces planar to one another. All
				adjacent faces perpendicular to one another.
	Granite sett		Dimensions	Nominal (BS EN 1342:2012): 240mm long x 160mm wide x 160mm thickness.
	(240x160x160).		Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012):
	Cropped to			Class 2. Note that the associated +/- variation is a requirement rather than a
	sides. Silver			permissible tolerance in order to permit laying in arcs and avoid creation of a
	grey, Mid grey,			sheer plane. Tolerances on undercut of sides (BS EN 1342:2012): Class 2.
	Dark Grey or	TV/AH		Deviations on face irregularity (BS EN 1342:2012): Class 2.
	Grey-Red.	Natural intrusive igneous rock sett	Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red. To be laid in an evenly
	B-NS-G4(160)-			distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey. Other
	CR			colour mixtures may be permitted or instructed by Approving Officers.
			Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn
		in accordance		then bush hammered/fine picked). Where required by the Employer may be
		with BS EN		hewn/cropped as an alternative (generally only acceptable to areas not
	1342	1342:2012. To be		trafficked by pedestrians).
		a true	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
		granite/granitoid	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		or commercial granite. In the case of Dark Grey colour units may be an extrusive igneous	Freeze/thaw	Under normal conditions - mean compressive strength (BS EN 1342:2012):
			resistance	Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Breaking strength	Lower expected value (BS EN 1342:2012): ≥ 180 MPa.
			Dimensions	Nominal (BS EN 1342:2012): 240mm long x 160mm wide x 160mm
			פווטופווטוווט	thickness.
		rock basalt.		UIIONIIGOS.



SSDW Rev S	Granite sett (200x100x100). B-NS-G3(100)- CR or B-NS-G3(100)- SW		As above. Cropped or sawn to sides. Natural intrusive igneous rock sett in accordance with BS EN 1342:2012.	As above. Use may be acceptable if it can be demonstrated that achievable cover is limited and prevents use of deeper items. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.	
	Imitation granite sett precast concrete blocks. Anti-		Dimensions Upper arris	150mm wide x 300mm long x 100mm thick. BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.	
	shift units.		Lower arris	BS EN 1338:2003 Square	
	Silver grey to		Facing layer thickness	BS EN 1338:2003 ≥ 6mm	
	BS EN 1338:2003 B-PC(AS)-G1 a	003		Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include substantial nibs located at regular ≤ 42mm centres so as to interlock between nibs of opposing units. Each nib to protrude by 3mm from side of unit and be approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 - 15mm recessed beneath upper face. Method of interlock to be such that individual units may still be removed by vertical lifting following installation.
	evenly distribut mix of 20% G1a 60% G1b and		Colour	Facing layer overall colour when viewed from a distance of 2m is silver grey as Munsell Colour (Neutral Scale) N 7.25/_46.8% R. Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey.	
			Density of facing	BS EN 1338:2003.≥ 375kg/m ³	
	running perpendi the domi	running perpendicular to the dominant carriageway	rpendicular to e dominant rriageway ge.	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be \geq 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules $>$ 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules $>$ 0.5mm diameter.	
			Water absorption	BS EN 1338:2003 Class 2(B)	
			Abrasion resistance	BS EN 1338:2003 Class 4(I)	
			Freeze/thaw	BS EN 1338:2003 Class 3(D)	
			Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing	



Initiation granite set precast concrete blocks. Antistift units. Mid grey to BS EN 1338:2003 Charafter due to texturisation for upper face of unit. Upper arris BS EN 1338:2003 Square Facing layer thickness Spacer nibs To be laid in an evenly distributed mix of 20% G1a. 60% G1b and 20% G1a in a stretcher Bond running perpendicular to the dominant carriageway edge. Colour Density of facing layer thickness BS EN 1338:2003.2 \$\frac{1}{2}\$ Spacer nibs Density of facing layer overall colour when viewed from a distance of 2m is mid grey as Munsell colour (neutral scale) N 6.0 / 3.00% Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey. Density of facing BS EN 1338:2003.2 \$\frac{1}{2}\$ Spacer nibs Density of facing layer overall colour when viewed from a distance of 2m is mid grey as Munsell colour (neutral scale) N 6.0 / 3.00% Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey. Density of facing BS EN 1338:2003.2 \$\frac{1}{2}\$ Spacer nibs is stand out from back ground colour. Bed face and sides beneath facing layer: generic grey. Density of facing layer may also include blast furnace slag or recycled aggregates in imitation or natural stone grainite. Monochrome salt and pepper appearance. Crushed grainite and other face mix materials to be 1.3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules may be specially speci	SSDIVI Rev S			T	
concrete blocks. Anti- shift units. Mid grey to BS EN 1338:2003 B-PC(AS)-G1b Mixed with Mixed with I to be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1a,		Imitation granite		Dimensions	150mm wide x 300mm long x 100mm thick.
blocks. Antishift units. Mid grey to BS EN 1338:2003 B-PC(AS)-G1b Mixed with Mixed with Description Engineering Enginee		-		Upper arris	· ·
shift units. Mid grey to Bs EN 1338:2003 B-PC(AS)-G1b Mixed with To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G					
grey to BS EN 1338:2003 B-PC(AS)-G1b Mixed with To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge. Density of facing a provided per la to the dominant carriageway edge. Facing layer thickness SE EN 1338:2003 ≥ 6mm To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge. Facing layer overall colour (heutral scale) N 6.0 / 30.0% Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey. Density of facing BS EN 1338:2003.≥ 375kg/m³ Texture Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be 2 60% exposed stent (or other secondary granite aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1-3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing of 0.4 - 0.75mm between matic granules > 1 mm in diameter. Typical spacing of 0.4 - 0.75mm between matic granules with typical spacing of 0.4 - 0.75mm between matic granules with typical spacing of 0.4 - 0.75mm between matic granules with typical spacing of 0.4 - 0.75mm between matic granules with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing requirement every look for the decimal page of the page o					abraded due to texturisation for upper face of unit.
Spacer nibs			SUSTINGUISHER	Lower arris	BS EN 1338:2003 Square
B-PC(AS)-G1b Mixed with To be laid in an evenly distributed mix of 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge. Density of facing agerate degrees and agerate degree degrees degree degrees degree degre			/	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
Mixed with Mixed with Mix				Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include
To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge. Density of facing Texture Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer may also include blast furnace slag or recycled aggregates in imitation granites of granules > 1mm in diameter. Typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing of 0.4 - 0.75mm diameter. Water absorption BS EN 1338:2003 Class 2(B) Method of manufacture Imitation granite set precast concrete blocks. Anti-		B-PC(AS)-G1b		·	substantial nibs located at regular ≤ 42mm centres so as to interlock between
To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge. Density of facing Perpendicular to the dominant carriageway edge. Density of perpendicular to the dominant carriageway edge. Water absorption Abrasion resistance B SE N 1338:2003 Class 2(B) Water absorption B SE N 1338:2003 Class 3(D) Method of manufacture Imitation granite set precast concrete blocks. Anti-		N divers al conitila			nibs of opposing units. Each nib to protrude by 3mm from side of unit and be
To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge. Density of facing layer overall colour when viewed from a distance of 2m is mid grey as Munsell colour. Bed face and sides beneath facing layer: generic grey. Density of facing BS EN 1338:2003.≥ 375kg/m³ Texture Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules on the typical spacing of 0.4 - 0.75mm between matic granules > 1 - 0.75mm between matic granules on to exceed 10mm between granules > 0.5mm diameter. BS EN 1338:2003 Class 2(B) Abrasion resistance BS EN 1338:2003 Class 3(D) Method of manufacture Freeze/thaw BS EN 1338:2003 Class 3(D) Imitation granite sett precast concrete blocks. Anti-		iviixea with			approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 -
evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge. Density of facing BS EN 1338:2003.≥ 375kg/m³ Texture Density of facing BS EN 1338:2003.≥ 375kg/m³ Texture Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer may also include blast furnace slag or recycled aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1-3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. Water absorption Abrasion resistance Freeze/thaw BS EN 1338:2003 Class 2(B) Abrasion resistance BS EN 1338:2003 Class 3(D) Method of manufacture Traffic bonding requirement Traffic bonding requirement Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.					15mm recessed beneath upper face. Method of interlock to be such that
distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge. Density of facing BEN 1338:2003.≥ 375kg/m³ Texture Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer may also include blast furnace slag or recycled aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules > 1mm in diameter. Typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing of 0.4 - 0.75mm diameter. Water absorption BS EN 1338:2003 Class 2(B) Abrasion resistance BS EN 1338:2003 Class 3(D) Method of manufacture minimum of 12 hours to reduce risk of efflorescence before packing Imitation granite sett precast concrete blocks. Anti-			To be laid in an		individual units may still be removed by vertical lifting following installation.
of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge. Density of facing BS EN 1338:2003.≥ 375kg/m³ Texture Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing of 0.4 - 0.75mm between matic granules not to exceed 10mm between granules > 0.5mm diameter. Water absorption BS EN 1338:2003 Class 2(B) Abrasion resistance BS EN 1338:2003 Class 3(D) Tereeze/thaw BS EN 1338:2003 Class 3(D) Method of manufacture BS EN 1338:2003 Class 4(I) Traffic bonding requirement Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.			evenly	Colour	Facing layer overall colour when viewed from a distance of 2m is mid grey as
Bond running perpendicular to the dominant carriageway edge. Density of facing BS EN 1338:2003.≥ 375kg/m³			distributed mix		Munsell colour (neutral scale) N 6.0 /_30.0% Grey, black and white grains to
Density of facing BS EN 1338:2003.≥ 375kg/m³ Texture Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. Water absorption BS EN 1338:2003 Class 2(B) Water absorption BS EN 1338:2003 Class 4(I) Freeze/thaw BS EN 1338:2003 Class 3(D) Method of manufacture BS EN 1338:2003 Class 3(D) Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing Traffic bonding requirement Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.					stand out from back ground colour. Bed face and sides beneath facing layer:
tretcher Bond running perpendicular to the dominant carriageway edge. Texture Texture Texture Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. BS EN 1338:2003 Class 2(B) Abrasion resistance BS EN 1338:2003 Class 4(I) Freeze/thaw BS EN 1338:2003 Class 3(D) Method of manufacture Tro-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing Traffic bonding requirement Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.					generic grey.
Bond running perpendicular to the dominant carriageway edge. Bond running perpendicular to the dominant carriageway edge.				Density of facing	
perpendicular to the dominant carriageway edge. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. Water absorption BS EN 1338:2003 Class 2(B) Abrasion resistance BS EN 1338:2003 Class 4(I) Freeze/thaw BS EN 1338:2003 Class 3(D) Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing Traffic bonding requirement Traffic bonding requirement Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.				Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
the dominant carriageway edge. Traffic bonding Imitation granite Set precast Concrete Imitation granite Imitation					
carriageway edge. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. Water absorption BS EN 1338:2003 Class 2(B) Abrasion resistance BS EN 1338:2003 Class 4(I) Freeze/thaw BS EN 1338:2003 Class 3(D) Method of manufacture minimum of 12 hours to reduce risk of efflorescence before packing Imitation granite sett precast concrete blocks. Anti- Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.					
edge. Description Preze/thaw Preze/thaw Preze/thaw Preze/thaw Preze/thaw Prezer Prezest					
distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. Water absorption BS EN 1338:2003 Class 2(B) Abrasion resistance Freeze/thaw BS EN 1338:2003 Class 4(I) Freeze/thaw BS EN 1338:2003 Class 3(D) Method of manufacture Imitation granite sett precast concrete blocks. Anti-					
matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. Water absorption BS EN 1338:2003 Class 2(B) Abrasion resistance BS EN 1338:2003 Class 4(I) Freeze/thaw BS EN 1338:2003 Class 3(D) Method of manufacture Imitation granite sett precast concrete blocks. Anti-			eage.		
Mater absorption BS EN 1338:2003 Class 2(B)					
Water absorption BS EN 1338:2003 Class 2(B) Abrasion resistance BS EN 1338:2003 Class 4(I) Freeze/thaw BS EN 1338:2003 Class 3(D) Method of manufacture Traffic bonding requirement Sett precast concrete blocks. Anti- Water absorption BS EN 1338:2003 Class 2(B) BS EN 1338:2003 Class 3(D) Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.					
Abrasion resistance BS EN 1338:2003 Class 4(I) Freeze/thaw BS EN 1338:2003 Class 3(D) Method of manufacture Traffic bonding requirement Set precast concrete blocks. Anti- Abrasion resistance BS EN 1338:2003 Class 4(I) Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.					<u> </u>
Freeze/thaw BS EN 1338:2003 Class 3(D) Method of manufacture Imitation granite sett precast concrete blocks. Anti- BS EN 1338:2003 Class 3(D) Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.				•	\
Method of manufacture Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing Imitation granite sett precast concrete blocks. Anti- Method of manufacture Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.					\sqrt{I}
Imitation granite sett precast concrete blocks. Anti- manufacture minimum of 12 hours to reduce risk of efflorescence before packing Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.				Freeze/thaw	BS EN 1338:2003 Class 3(D)
Imitation granite sett precast concrete blocks. Anti- Traffic bonding requirement Side face nib and base face treatments to achieve sufficient frictional interlock between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.					
sett precast concrete blocks. Anti- sett precast concrete blocks. Anti- requirement between units and laying course to permit laying as BS 7533-1:2001 in sites experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.					· •
concrete experiencing 3 million design life standard axles or greater in stretcher bond and without intermediary restraints.					
blocks. Anti- and without intermediary restraints.				requirement	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
shift units. Dark Dimensions 150mm wide x 300mm long x 100mm thick.					
		shitt units. Dark		Dimensions	150mm wide x 300mm long x 100mm thick.

SSDM Rev	9: November 2022		T	SOUTHWEAK, GOOD
	grey to BS EN		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm
	1338:2003			horizontal chamfer dimension. Chamfer to be flat as moulded then lightly
	B-PC(AS)-G1c			abraded due to texturisation for upper face of unit.
			Lower arris	BS EN 1338:2003 Square
		SGEDANGERUNGSTA	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
		7	Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include
				substantial nibs located at regular ≤ 42mm centres so as to interlock between
				nibs of opposing units. Each nib to protrude by 3mm from side of unit and be
				approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 -
				15mm recessed beneath upper face. Method of interlock to be such that
				individual units may still be removed by vertical lifting following installation.
		To be laid in an	Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as
		evenly		Munsell colour (neutral scale) N 5 /_19.8%R. Grey, black and white grains to
		distributed mix		stand out from back ground colour. Bed face and sides beneath facing layer:
		of 20% G1a,		generic grey.
		60% G1b and	Density of facing	BS EN 1338:2003.≥ 375kg/m ³
		20% G1c in a	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
		stretcher		layer to be ≥ 50% exposed stent (or other secondary granite aggregates.
		Bond running		Facing layer may also include blast furnace slag or recycled aggregates in
		perpendicular to		imitation of natural stone granite. Monochrome salt and pepper appearance.
		the dominant		Crushed granite and other face mix materials to be 1 -3mm in diameter with
		carriageway		none exceeding 5mm. Even overall distribution of different grain types. Close
		edge.		distribution of matic granules with typical spacing of 0.4 - 0.75mm between
				matic granules > 1mm in diameter. Typical spacing between glinting mica
				imitation granules not to exceed 10mm between granules > 0.5mm diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
Parking	Bituminous	Series Control		See SSDM Standard DS 601 for details of permitted bituminous mixture
Bay	mixture surface	Section of the Contract of Con		surface materials for different NRSWA road categories and trafficking
Surface	course	€€. → Temporarions		circumstances. See also the London Asphalt Specification for details of
		COTAG Asset Microgenees than d Unicomes; entry; representation Section of a section or converse ables for the set find analog manner.		acceptable proprietary mixes for use across London.
		description And the contract of the contract is being the contract of the con		



	Granite sett (240x160x160). B-NS-G4(160)- SW or B-NS-G4(160)- CR		As above. Cropped or sawn to sides.	As above. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.
	Granite sett (200x100x100). B-NS-G3(100)- CR or B-NS-G3(100)- SW		As above. Cropped or sawn to sides. Natural intrusive igneous rock sett in accordance with BS EN 1342:2012.	As above. Use may be acceptable if it can be demonstrated that achievable cover is limited and prevents use of deeper items. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.
	Imitation granite sett precast concrete blocks. Anti-shift units. Silver, Mid and Dark grey to BS EN 1338:2003	B-PC(AS)-G1a B-PC(AS)-G1b B-PC(AS)-G1c	As above.	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge.
	Imitation Granite		Dimensions	Mix of 208 and 173mm long x 173mm long x 80mm thick.
	Setts precast concrete blocks		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical
	Infiltration joint		Lower arris	BS EN 1338:2003 Square
	units. Silver		Facing layer	BS EN 1338:2003 ≥ 6mm
	grey. 208/173x173x60		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
	B-PC(W80)-G1a	The second second		of jointing material. Extent of nib protrusion ≥ 6mm
	, ,		Colour	Facing layer overall colour when viewed from a distance of 2m is silver grey as Munsell colour (neutral scale) N 7.25/_46.8%R. Grey, black and white and
	To be laid in an evenly distributed mix			glassy aggregate grains to stand out from back ground colour. Bed face and
		N. Company		sides beneath facing layer: generic grey
	of 60% G1a,	Only likely as a	Density of facing	BS EN 1338:2003.≥ 375kg/m ³
	20% G1b and construction aver reating	no dig pavement	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
				layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in
	stretcher bond running	zones of		imitation of natural stone granite. Monochrome salt and pepper appearance.
	perpendicular to	existing trees.		Crushed granite and other face mix materials to be 1 -3mm in diameter with
	•			none exceeding 5mm. Even overall distribution of different grain types. Close

	the dominant			distribution of matic granules with typical spacing of 0.4 - 0.75mm between
	carriageway			matic granules > 1mm in diameter. Typical spacing between glinting mica
	edge. Other			imitation granules not to exceed 10mm between granules > 0.5mm diameter.
	colour mixes		Water absorption	BS EN 1338:2003 Class 2(B)
	may be or		Abrasion resistance	BS EN 1338:2003 Class 2(b) BS EN 1338:2003 Class 3(H) or Class 4(I)
	instructed by			
	Approving		Freeze/thaw	BS EN 1338:2003 Class 3(D)
	Officers.		Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing
	Imitation Granite		Dimensions	Mix of 208 and 173mm long x 173mm long x 80mm thick.
	Setts precast		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to
	concrete blocks			upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical
	Infiltration joint		Lower arris	BS EN 1338:2003 Square
	units. Mid grey.		Facing layer	BS EN 1338:2003 ≥ 6mm
	208/173x173x60		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
	B-PC(W80)-G1b			of jointing material. Extent of nib protrusion ≥ 6mm
	To be loid in on		Colour	Facing layer overall colour when viewed from a distance of 2m is mid grey as
	To be laid in an			Munsell colour (neutral scale) N 6/_30.0%R. Grey, black and white and
	evenly distributed mix			glassy aggregate grains to stand out from back ground colour. Bed face and
	of 60% G1a,	Only likely as a		sides beneath facing layer: generic grey
	20% G1b and	no dig pavement	Density of facing	BS EN 1338:2003.≥ 375kg/m ³
	20% G1b and 20% G1c in a	construction	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
	stretcher bond	over rooting		layer to be ≥ 50% exposed stent (or other secondary granite aggregates.
	running	zones of existing trees.		Facing layer may also include blast furnace slag or recycled aggregates in
	perpendicular to			imitation of natural stone granite. Monochrome salt and pepper appearance.
	the dominant			Crushed granite and other face mix materials to be 1 -3mm in diameter with
	carriageway			none exceeding 5mm. Even overall distribution of different grain types. Close
	edge. Other			distribution of matic granules with typical spacing of 0.4 - 0.75mm between
	colour mixes			matic granules > 1mm in diameter. Typical spacing between glinting mica
	may be or			imitation granules not to exceed 10mm between granules > 0.5mm diameter.
	instructed by		Water absorption	BS EN 1338:2003 Class 2(B)
	Approving Officers.		Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.
	Imitation Granite	Only likely as a	Dimensions	Mix of 208 and 173mm long x 173mm long x 80mm thick.
	Setts precast	no dig pavement	Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to
	concrete blocks	construction	Opper arris	upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical.
	CONTROL DIOUNG	0011311 4011011		upper race texturisation > 4mm nonzontal > 2mm vertical.



CODINI TOV	Infiltration joint	over rooting	Lower arris	BS EN 1338:2003 Square
	units. Dark grey.		Facing layer	BS EN 1338:2003 ≥ 6mm
	208/173x173x60		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
	B-PC(W80)-G1c			of jointing material. Extent of nib protrusion ≥ 6mm.
	To be laid in an evenly distributed mix of 60% G1a,		Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as Munsell colour (neutral scale) N 5/_19.8%R. Grey, black and white and glassy aggregate grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey.
	,		Density of facing	BS EN 1338:2003.≥ 375kg/m ³
20% G1b and 20% G1c in a stretcher bond running perpendicular to the dominant carriageway edge. Other colour mixes may be or instructed by Approving Officers.		Water absorption Abrasion resistance Freeze/thaw Method of	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. BS EN 1338:2003 Class 2(B) BS EN 1338:2003 Class 3(H) or Class 4(I) BS EN 1338:2003 Class 3(D) Two-layer press with separate facing layer. Units to be vapour cured for a	
	5		manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.
Raised Table Plateau Surface and Traffic Carpet Surface	Bituminous mixture surface course	The control of the co		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
	Granite sett (240x160x160). B-NS-G4(160)- SW or B-NS-G4(160)- CR		As above. Cropped or sawn to sides.	As above. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.



	Granite sett (200x100x100). B-NS-G3(100)- CR or B-NS-G3(100)- SW		As above. Cropped or sawn to sides. Natural intrusive igneous rock sett in accordance with BS EN 1342:2012.	As above. Use may be acceptable if it can be demonstrated that achievable cover is limited and prevents use of deeper items. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.
	Imitation granite sett precast concrete blocks. Anti-shift units. Silver, Mid and Dark grey to BS EN 1338:2003	B-PC(AS)-G1a B-PC(AS)-G1b B-PC(AS)-G1c	As above.	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge.
Raised Table Ramp Surface/ Traffic Carpet Ramp Surface	Bituminous mixture surface course	Local Consultation Local	As above.	See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
Traffic Carpet	Granite cube (80x80x80).		Dimensions	80mm wide x 80mm long x 80mm thick. No undersized units to be included in delivery as units intended to be laid in stretcher or stack bond not an arc.
Plateau	Cropped to		Deviations	Deviations on face irregularity (BS EN 1342:2012): Class 2.
Reserve Materials	sides. For laying in		Tolerance	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2
	stretcher / stack		Colour	Silver Grey as oil stains should not be as conspicuous on small units.
	bond. Silver Grey, Mid Grey, Dark Grey or		Appearance	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To be a true granite, granitoid or commercial granite. In the case of Dark Grey colour units may be an extrusive igneous rock basalt.
	Grey-Red. B-NS-G2(80)- CR-STR		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative. Sides and base (BS EN 1342:2012): Hewn/cropped (generally only acceptable to areas not trafficked by pedestrians).
			Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.



			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm
			Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
			Density and porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	Granite cube 80x80x80mm grey to BS EN 1342:2012 B-NS-G2(80)-	For laying in	Dimensions	80mm wide x 80mm long x 80mm thick (8/8/8 designation). For laying in arcs. Undersize units: Units to be produced for laying in arc patterns with 5% of units included in delivery having lengths and widths smaller than the permitted minimums after applying permitted dimensional tolerances (e.g. smaller than 80mm).
	CR/ARC	arcs.	Tolerances	Normal plan dimensions and thickness, undercut of sides and deviations on face irregularity to BS EN 1342:2012 Class 2.
			Colour	Silver grey, mid grey, dark grey or grey-red.
			Texture	Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by employer may be hewn/cropped as an alternative (only acceptable in areas not trafficked by pedestrians).
			Water absorption	Higher expected value BS EN 1342:2012 ≤ 0.35%
			Abrasion resistance	Higher expected value BS EN 1342:2012 ≤ 23mm
			Freeze/thaw	Under normal conditions mean compressive strength (BS EN 1342:2012)
			resistance	results to be declared, Change between 0 cycles and 56 cycles to be ≤ 15%
			Density/porosity	BS EN 1342:2012 ≥ 2500kg/m ³ / ≤ 1.25%
			Breaking strength	Lower expected value BS EN 1342:2012 ≥ 180 MPa
	CED Temple Setts		Dimensions	Nominal (BS EN 1342:2012): 90mm wide x 150mm depth x Varies (325, 275,225,175 and 125)
	Bluish Grey, Blue Grey,	Natural intrusive igneous rock sett in accordance with	Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
			Colour	Bluish Grey, Blue Grey, Basalt black, Green and Red mix.
			Texture	Split sides. Sawn top and bottom, Upper face subsequently coarse textured (flamed treatment).
	Green or Red	BS EN	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	mix.	1342:2012. To	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.

S816-300-AAC	granite/granitoid	Freeze/thaw resistance	Mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
	or commercial	Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
	granite.	Breaking strength	Breaking strength, compressive strength - lower expected value (BS EN 1342:2012): ≥ 80 MPa.
		Skid resistance	Wet mean (BS EN 1342:2012): ≥ 65 USRV
Yorkstone natural stone slab paving		Dimensions	Work dimensions (BS EN 1341:2012): 75mm thick. Mixed width gauges of 300/450/600/750mm. Random length though with max length:width ratio to any unit of 1.5:1.0 and vice versa.
(mixed gauges and lengths, 75mm thick).		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
Grey blue buff.	1-1	Upper arris	(BS EN 1341:2012): Square/sharp.
F-NS(75)-Y1 Or	4 7	Lower arris	(BS EN 1341:2012): Square/sharp.
Yorkstone natural stone slab paving		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
(single size, 600x750x75mr thick). Grey blu		Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
buff. F-NS(75)-Y2	Caution should be exercised in	Texture	(BS EN 1341:2012): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
	the use of York-	Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 19.0 Mpa.
	stone within	Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 23mm.
	carriageway areas as it tends	Weathering	Durability, freeze/thaw resistance - mean flexural strength (BS EN 1341:2012):
	to stain heavily	Tesisiance	Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
	from vehicle	Slip resistance	Slip resistance wet - mean (BS EN 1341:2012): ≥ 75 USRV
	over-run.	Water absorption Density and porosity	Higher expected value (BS EN 1341:2012): ≤ 2.0%. Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
Namana			, ,
Narrow presse imitation clay		Dimensions	Nominal (BS EN 1344:2002): 215mm long x 52mm wide x 70mm thick. Minor variants (+/- 4mm) on the preceding dimensions may be permitted by
pavers			approving officers. Rectangular plan and section. All opposing faces planar to
(212x52x70).			one another. All adjacent faces perpendicular to one another.
Grey-buff. B-ICP-1c	Units should be	Tolerances	Dimensional tolerances range (BS EN 1344:2002): Class R1. Dimensional tolerances mean (BS EN 1344:2002): Class U3.



	5. NOVERIDE 2022	laid on 50mm wide face so as	Colour	Subtly varying grey-buff to all sides ranging through approximate Munsell Colours 2.5Y8/1, 2.5 7/1, 2.5Y 6/1, 2.5Y 6/2 and 2.5YR5/1
		to be 70mm	Texture	Flat faces with tumbled edges. No further texturisation.
		deep	Water absorption	(BS EN 771-1:2011): Class W3.
			Abrasion resistance	(BS EN 1344:2002): Class A3 (+).
			Freeze/thaw	(BS EN 1344:2002): Class FP100.
			Density/porosity	(BS EN 1344:2002): Class C.
			Breaking strength	Transverse breaking load (BS EN 1344:2002): Class T4
			Skid resistance	(BS EN 1344:2002): Class A1.
	Narrow pressed imitation clay pavers	Units should be	Dimensions	Nominal (BS EN 1344:2002): 185mm long x 45mm wide x 90mm thick. Minor variants (+/- 4mm) on the preceding dimensions may be permitted by approving officers. Rectangular plan and section. All opposing faces planar to one another. All adjacent faces perpendicular to one another.
	(185x45x90).	laid on 50mm	Arris	Rounded/tumbled to all sides.
	Bronze. B-ICP-2a	wide face so as to be 70mm deep	Colour	Subtly varying through buff-yellow and gold within and between units, all with a grey patina, to approx. Munsell Colours 2.5Y 8/2, 2.5Y 8/3, 2.5Y 7/3, 2.5 Y 7/4, 2.5y 7/6 and 2.5YR 7/4.
			Texture	Flat faces with tumbled edges. No further texturisation.
			Water absorption	(BS EN 771-1:2011): Class W3.
			Abrasion resistance	(BS EN 1344:2002): Class A3 (+).
			Freeze/thaw	(BS EN 1344:2002): Class FP100.
			Density/porosity	(BS EN 1344:2002): Class C.
			Breaking strength	Transverse breaking load (BS EN 1344:2002): Class T3
			Acid resistance	(BS EN 1344:2002): Class C.
Tactile	Blister tactile		Dimensions	Nominal (BS EN 1341:2012): 400mm wide x 400mm long x 80mm thick
surfacing	granite natural	1	- .	(excluding profile features).
Controlled crossing	stone paving slab (90mm	一个	Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances
Crossing	thickness).	the Barton		on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	Silver grey.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
	T(B)-NS/G(80)	Natural plutonic	Profile feature	(DD/CEN/TS 15209:2008): Type B1.
	, , ,	micro-	Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral
		granodiorite or micro-tonalite	Coloui	grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided
		granitoid stone		eye at a distance of 2m under natural light to be N8.25 - N8.5, though the
		slab in		material's composition from individual white, grey and black grains should
		accordance with		remain visibly evident even when viewed in this way. Dark Mafic mineral
				grains to have lightness value of 0-1 on the Munsell Colour Scale.



SSDW Rev s	7. November 2022	BS EN 1341:	Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed by
		2012. Other	Appearance	then unaided eye at a distance of 2m under natural light. On close inspection
		'commercial'		to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to
		granites with less		5mm. Size of grains to generally increase with lightness, with mafics typically
		than 20% quartz		in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm
		may be accepted		in size and feint quartz veining may be permissible subject to intensity and
		at the approving		distribution. Overall distribution of grain sizes and colours to be fairly even.
		officer's	Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
		discretion.	Apparent density	Mean (BS EN 1341:2012): ≥ 2600kg/m³ /≤1.25%.
			Breaking load	Flexural Strength – lower expected value (BS EN 1341:2012): ≥ 12.5MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Mean (BS EN 1341:2012): ≥ 65USRV.
Tactile	Blister tactile		Dimensions	(400mm wide x 400mm long x 75mm thick (excluding profile features).
surfacing	yorkstone		Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).
Un -	natural stone		TOIETATICES	Tolerances on diagonals (BS EN 1341:2012): Class 2 (P2).
Controlled	paving slab (75			thickness (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
crossing	mm thickness).	The state of the s	Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
Crossing	Blue grey buff.		Profile feature	(DD/CEN/TS 15209:2008): Type B1.
	T(B)-NS/Y(75)			, , ,
	(2) 110/1 (10)		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell
				Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be
				between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
			Appearance	Transition between areas of different colour to be generally smooth though
			Appearance	mild banding to occasional units acceptable subject to visual assessment.
				As above, to include faint 'smokey' dark grey swirls/wisps throughout.
			Texture	(BS EN 1341:2012): Fine textured (sawn to all sides). Shall not be flamed
			TOXIGIO	or shot blasted.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 2.0%.
			Density & Porosity	means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
			Breaking load	Lower expected value (BS EN 1341:2012): ≥ 19.0 MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 23mm.
			Durability, freeze/	Mean flexural strength (BS EN 1341:2012): Results to be declared. Change
			thaw resistance	between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Wet - mean (BS EN 1341:2012): ≥ 75 USRV
				400mm wide x 400mm long x 80mm thick (excluding profile features).
			Dimensions	400mm wide x 400mm long x 60mm thick (excluding profile features).



Т	actile	Corduroy	Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances
s	urface	tactile granite		on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS
C	Corduroy	natural stone		EN 1341:2012): Class 2 (T2).
		paving slab	Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
		(80mm	Profile feature	(DD/CEN/TS 15209:2008): Type R1.
		thickness).	Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral
		Silver grey.		grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided
		T(C)-NS/G(80)		eye at a distance of 2m under natural light to be N8.25 - N8.5, though the
				material's composition from individual white, grey and black grains should
				remain visibly evident even when viewed in this way. Dark Mafic mineral
				grains to have lightness value of 0-1 on the Munsell Colour Scale.
			Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed by
				then unaided eye at a distance of 2m under natural light. On close inspection
				to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to
				5mm. Size of grains to generally increase with lightness, with mafics typically
				in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm
				in size and feint quartz veining may be permissible subject to intensity and
			Matan alaanutian	distribution. Overall distribution of grain sizes and colours to be fairly even.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
			Apparent density	Mean (BS EN 1341:2012): ≥ 2600kg/m³ /≤1.25%.
			Breaking load	Flexural Strength – lower expected value (BS EN 1341:2012): ≥ 12.5MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
_			Slip resistance	Wet - mean (BS EN 1341:2012): ≥ 75 USRV
	actile	Ladder/tram	Dimensions	400mm wide x 400mm long x 80mm thick (excluding profile features).
	Surface	line tactile	Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances
	adder / ramline	granite natural		on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS
'	ramine	stone paving slab (80mm	11	EN 1341:2012): Class 2 (T2).
		thick). Silver	Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
		grey.	Profile feature	(DD/CEN/TS 15209:2008): Type R3.
		T(L)-NS/G(80)	Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral
		1(=) 110/0(00)		grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided
				eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should
				remain visibly evident even when viewed in this way. Dark Mafic mineral
				grains to have lightness value of 0-1 on the Munsell Colour Scale.
			Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed by
			/ ippearane	then unaided eye at a distance of 2m under natural light. On close inspection
				Then analog by at a distance of 2m ander natural light. On close inspection



Dogwood	Mantiald Duff		Water absorption Apparent density Breaking load Abrasion resistance Weathering resistance Slip resistance	to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to 5mm. Size of grains to generally increase with lightness, with mafics typically in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm in size and feint quartz veining may be permissible subject to intensity and distribution. Overall distribution of grain sizes and colours to be fairly even. Higher expected value (BS EN 1341:2012): ≤ 0.35%. Mean (BS EN 1341:2012): ≥ 2600kg/m³ /≤1.25%. Flexural Strength – lower expected value (BS EN 1341:2012): ≥ 12.5MPa. Higher expected value (BS EN 1341:2012): ≤ 18mm. Change between 0 cycles and 56 cycles to be ≤ 20%. Wet - mean (BS EN 1341:2012): ≥ 75 USRV
Reserve Footway Material	Westfield Buff Multi Yorkstone natural stone		Dimensions	Work dimensions (BS EN 1341:2012): 75mm thick. Mixed width gauges of 300/450/600/750mm. Random length though with max length: width ratio to any unit of 1.5:1.0 and vice versa.
S	paving (mixed gauges and lengths, 75mm	Average and the second	Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	thick). Grey		Upper arris	(BS EN 1341:2012): Square/sharp.
	blue buff.	This alternative	Lower arris	(BS EN 1341:2012): Square/sharp.
	F-NS(75)-Y4	natural stone	Colour	Predominantly (85-90%) blue-grey with some (10-15%) buff highlights.
	or Westfield Buff	may be used instead of the	Appearance	Hard, fine grained sandstone.
	Multi Yorkstone	Scoutmoor	Texture	Hard, fine grained sandstone.
	natural stone	Yorkstones	Compressive strength	
	paving (mixed	F-NS(75)-Y1 Or	Flexural strength	16.4 MPa
	gauges and	F-NS(75)-Y2	Weathering	Freeze/thaw resistance - mean flexural strength (BS EN 1341:2012): Results
	lengths, 63mm	and	resistance	to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
	thick). Grey	F-NS(63)-Y1 Or	Slip resistance	74 wet – TLR slider test
	blue buff.	F-NS(63)-Y2 as	Water absorption	2.40%
	F-NS(63)-Y4 appropriate Yorkstone natural stone slab paving	Density and porosity	2473 kg/m3 typically	
			Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	(300 wide x		Upper arris	(BS EN 1341:2012): Square/sharp.
	variable 200- 450 length x 75	7	Lower arris	(BS EN 1341:2012): Square/sharp.
			Colour	Predominantly (85-90%) blue-grey with some (10-15%) buff highlights.
	thick). Grey blue buff.		Appearance	Hard, fine grained sandstone.
	Dide Dull.		Texture	Hard, fine grained sandstone.



SSDIVI Rev s	F-NS(75)-Y3		Compressive strength	139 MPa
			Flexural strength	16.4 MPa
			Weathering	Freeze/thaw resistance - mean flexural strength (BS EN 1341:2012): Results
			resistance	to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	74 wet – TLR slider test
			Water absorption	2.40%
			Density and porosity	2473 kg/m3 typically
			Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
	Yorkstone		Dimensions	Nominal (BS EN 1338:2003): 100mm long x 100mm wide x 75mm thick.
	natural stone		Deviations	Dimensional tolerances: As BS EN 1338:2003.
	cube		Upper arris	(BS EN 1338:2003): Square/sharp.
	(100x100x75).		Lower arris	(BS EN 1338:2003): Square/sharp.
	Grey blue buff. B-NS(75)-Y1		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
			Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
			Texture	(BS EN 1338:2003): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
			Breaking load	Breaking strength, compressive strength - lower expected value (BS EN 1342:2012): ≥ 125 MPa.
			Abrasion resistance	higher expected value (BS EN 1342:2012): ≤ 23mm.
			Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV.
			Water absorption	Water absorption (BS EN 1342:2012): ≤ 2%.
	Yorkstone natural stone cube (200x100x75). Grey blue buff.		Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
			Dimensions	Nominal (BS EN 1338:2003): 200mm long x 100mm wide x 75mm thick.
			Upper/lower arris	(BS EN 1338:2003): Square/sharp.
			Tolerance	Dimensional tolerances: As BS EN 1338:2003.
			Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell



SODIVI KEV	9: November 2022			Southwark,goodk
	B-NS(75)-Y2			Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
			Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
		Sedimentary carboniferous	Texture	(BS EN 1338:2003): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
		sandstone sett	Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 125 MPa.
		to BS EN	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		1342:2012 Caution should	Weathering resistance	(BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
		be exercised	Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
		using these units within	Density	Means (BS EN 1342:2012): ≥ 2400 kg/m3 / ≤ 5.75%.
		carriageway areas as yorkstone tends to stain heavily with vehicle over-run.	Water absorption As above.	(BS EN 1342:2012): ≤ 2%. As above.
	(80x80x80). B- NS-G2(80)-CR- STR		Cropped sides. Silver Grey, Mid Grey, Dark Grey or Grey-Red.	
	Granite sett (200x100x100). B-NS-G3(100)- SW or B-NS-G3(100)- CR		As above. Sawn or cropped sides.	As above.



	Granite sett (240x160x160). Sawn or cropped sides.		B-NS-G4(160)-SW or B-NS-G4(160)-CR.	As above.
	Narrow pressed clay pavers (212x52x70). Grey-buff. B-CP-1c		As above. Units should be laid on 50mm wide face so as to be 70mm deep	As above.
	Narrow pressed clay pavers (185x45x90). Bronze. B-CP-2a		As above. Units should be laid on 50mm wide face so as to be 70mm deep	As above.
	Granite mosaic (50x50x50).		Dimensions	Work dimensions - nominal (BS EN 1342:2012): 50mm width x 50mm length x 50mm thick (5/5/5 designation).
	Silver Grey or Mid Grey. B-NS-G1(50)-		Deviations	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
	CR		Density and porosity	Means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
		Use will only be	Colour	Silver Grey or Mid Grey
	appropriate to lightly trafficked surfaces and will require the use of a bound/rigid construction. The cropped	Appearance	Natural plutonic igneous rock sett in accordance with BS EN 1342:2012. To be a true granite, granitoid or commercial granite.	
		Texture	Texture - upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Texture – sides and base (BS EN 1342:2012): Hewn/cropped.	
		upper face is not	Slip Resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
		accessible so	Breaking load	Lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		alternative paths	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		for vulnerable pedestrians.	Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.



			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Unbound	Sharp sand	708	Particle size	0 – 4mm
bedding	bedding for		Oven dried density	>2000kg/m ³
sand	unbound		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	footway		AIV	Aggregate Impact Value < 30%
	concrete stabs,		Abrasion resistance	Los Angeles Value <30% loss
	natural stone	Primarily sea	Flakiness Value	< 30
	flags and concrete blocks	dredged coarse	Elongation Index	< 30
	or clay pavers L-SS1	sand or washed grit sand with no organic matter to BS EN 12620:2013	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	Quartz arenite sand bedding		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. $< 1 - 2\%$ fines.
	for unbound	Chan have a	Particle size	1 – 4mm
	carriageway	数据表示。	Oven dried density	>2000kg/m ³
	concrete blocks		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	or clay pavers L-QZ4		AIV	Aggregate Impact Value < 30%
	L-QZ4	excusar and the second	Abrasion resistance	Los Angeles Value <30% loss
			Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.
	Quartz arenite		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock
	sand bedding for unbound		Particle size	fragments. Very hard particles to prevent fragmentation. 2 – 6mm
	permeable	AND PARTY AND THE SAME OF THE	Oven dried density	2 - 6mm >2000kg/m ³
	carriageway	我是 对 第二次	Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	concrete blocks		AIV	Aggregate Impact Value < 30%
	or clay pavers		Abrasion resistance	Los Angeles Value < 30% loss
	L-QZ2/6	To be laid	Flakiness Value	< 30
		50mm thick	Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.
			i iiios valu c	11.0 43 DO LIV 12020, 1633 than 1- 270 passing 0.000mm sieve.
Unbound jointing sand	Sharp sand jointing sand for unbound		Particle size	0 – 4mm
			Oven dried density	>2000kg/m ³



	I		0.1.1.0.4.4	40/1 /4 / 1 / 1 / 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2
footw	,	The state of the	Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	rete stabs,		AIV	Aggregate Impact Value < 30%
	ral stone		Abrasion resistance	Los Angeles Value <30% loss
flags		The same of the same	Flakiness Value	< 30
	rete blocks		Elongation Index	< 30
L-SS		Primarily sea dredged coarse sand or washed grit sand with no organic matter to BS EN 12620:2013	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
unbou footw concr natura flags concr	ng sand for bund vay rete stabs, ral stone and rete blocks ay pavers	For use where there might be cleansing issues (vacuum cleaners sucking out jointing sand).	2 options	Sharp sand as above with a water miscible stabilising jointing liquid. A dry sharp sand and cement mix, brushed into the joints and then moistened with water
Stabil jointir	ilised ng gravel	For use with wider joints.	options	0 - 8mm gravel with a water miscible stabilising jointing liquid.
for un footw concrusture flags concr	nbound vay rete stabs, ral stone & rete blocks ay pavers			A dry 0 - 8mm gravel and cement mix, brushed into the joints and then moistened with water.
Bedding Bedd mortar for bo	ling mortar	Pacing stolen-lens Regulabilities - george southe - booksing montar - "preveng nontir - "preveng nontir	Minimum Flexural strength	30 MPa
	truction	- Selvices	Minimum	50 N/mm ²
L-MH			Compressive Strength	
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm



4/2006, Table 4, clause 5.4.4.1 Acid soluble (SO₁) ≤ 5%of mass of cement in mix sulphate cement ratio Water cement ratio Water sulphate (As SO₁) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Water absorption Of mixed mortar: 0.4%. Minimum Construction L-MH2 BS 7533-10 /2004 Type B Bedding mortar for bound construction L-MH3 BS 7533-10 /2004 Type B Bedding mortar for bound construction L-MH3 BS 7533-10 /2004 Type A Bedding mortar for bound construction L-MH3 BR 7533-10 /2004 Type A BR 7533-10 /2004 Type A BR 7533-10 /2004 Type A Acid soluble (SO₁) ≤ 5%of mass of cement in mix waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. Water sulphate content (As SO₁) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. Winimum Construction L-MH3 BR 7533-10 /2004 Type A Acid soluble (SO₄) ≤ 5%of mass of cement in mix waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. Water cement water of mixed mortar: 5 to 25 degrees centigrade. Chloride lon content (As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Cement Portland Cement CEM1 complying with BSEN 197-1. Water cement ratio (SO₄) ≤ 5%of mass of cement in mix waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. Cement Water sulphate (As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. Cuing time 1 hour to reach structural strength 40 N/mm² Aggregate size (Chloride lon content) ≤ 0.4 waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. Chloride lon content ≤ 0.4 waters), to BS EN 1008. Temperature of mixed mortar: 2 to 25 degrees centigrade. Chloride lon content ≤ 0.4 waters), to BS EN	. November 2022	BS 7533-	Chloride Ion content	≤ 0.1% of mass
Clause 5.4.4.1 Sulphate Cement Portland Cement CEM1 complying with BSEN 197-1 Water cement ratio ≤ 0.4 Water sulphate (As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal content of bound construction L-MH2 BS 7533-10 Z004 Type B Bedding mortar for bound construction L-MH3 BS 7533-10 Z004 Type B Bodding mortar for bound construction L-MH3 BS 7533-10 Z004 Type A Experiment S004 Type A Experim			Acid soluble	(SO ₄) ≤ 5%of mass of cement in mix
Water cement ratio 4.0.4 Water sulphate (As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Water absorption Of mixed mortar ≤ 0.4%		clause 5.4.4.1	sulphate	
Water sulphate content Waters), to BS EN 1008. S E			Cement	Portland Cement CEM1 complying with BSEN 197-1
Content Waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. Minimum Compressive strength Bedding mortar for bound construction L-MH2 Bedding mortar for bound construction L-MH3 Bedding mortar for bound construction for for mixed mortar: 5 to 25 degrees centigrade. Bedding mortar for bound for mixed for mixed mortar: 5 to 25 degrees centigrade. Bedding mortar for bound for mixed for mixed mortar: 5 to 25 degrees centigrade. Bedding mortar for bound for mixed for mixed for mixed mortar: 5 to 25 degrees centigrade. Bedding mortar for bound for mixed for mixed for mixed mortar: 5 to 25 degrees centigrade. Bedding mortar for bound for mixed for mixed for mixed for mixed for mortar for bound for mixed for mixed for mortar for bound for mixed for mixed for mixed for mixed for mortar for bound for mixed for mixed for mixed for mixed			Water cement ratio	≤ 0.4
Temperature Water absorption Bedding mortar for bound construction L-MH2 BS 7533-10			Water sulphate	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
Bedding mortar for bound construction L-MH2 BS 7533-10 /2004 Type B Bedding mortar for bound construction L-MH2 BS 7533-10 /2004 Type B BS 7533-10 /2004 Type B Bedding mortar for bound construction L-MH3 BS 7533-10 /2004 Type A BS 7533			content	waters), to BS EN 1008.
Bedding mortar for bound construction L-MH2 By 7533-10 /2004 Type B Bedding mortar for bound construction L-MH3 Bedding mortar for bound construction bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Compressive strength			Water absorption	Of mixed mortar ≤ 0.4%
the particular and the particul		Pering stores hells if promag stores bedding moster	-	25 N/mm ²
L-MH2 BS 7533-10 /2004 Type B Aggregate size		1-pomey exite - Substrate	-	
BS 7533-10 /2004 Type B Chloride Ion content Acid soluble sulphate CDement Water cement ratio Content Vater sulphate Construction L-MH3 BS 7533-10 /2004 Type A BS 7533-10 /2004 Type A Water sulphate Chloride Ion content Acid soluble Sulphate Chloride Ion content Vater sulphate Compensive Strength Acid soluble Sulphate Chloride Ion content Acid soluble Sulphate Chloride Ion content Vater sulphate Coment Vater cement ratio Vater sulphate Content Vater cement ratio Vater sulphate Content Vater from water company (not sea or tidal waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. Curing time 1 hour to reach structural strength 40 N/mm² Aggregate size Maximum aggregate size in bedding mortar: 2.8mm			~	
Acid soluble sulphate Cement Water cement ratio Uniform pound construction L-MH3 Bedding mortar for bound construction L-MH3 By 7533-10 /2004 Type A Acid soluble sulphate Cement Water sulphate Content By 7533-10 /2004 Type A Acid soluble sulphate Content Water sulphate Content Compressive Strength Aggregate size Chloride lon content Acid soluble sulphate Cement Portland Cement CEM1 complying with BSEN 197-1 Water from water company (not sea or tidal waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. Winimum Compressive Strength Aggregate size Chloride lon content Acid soluble sulphate Cement Portland Cement CEM1 complying with BSEN 197-1. Water cement ratio (As SO ₄) ≤ 5%of mass of cement in mix (SO ₄) ≤ 5%of mass of cement in mix (SO ₄) ≤ 5%of mass of cement in mix (SO ₄) ≤ 5%of mass of cement in mix (SO	L-IVIH2	BS 7533-10		
Sulphate Cement Portland Cement CEM1 complying with BSEN 197-1		/2004 Type B		
Water cement ratio ≤ 0.4 Water sulphate content Water sulphate content Waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Winimum Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Cloride lon content Acid soluble sulphate Cement Water sulphate Cement Water cement ratio ≤ 0.4 Water sulphate Cement Water cement ratio ≤ 0.1% of mass (SO ₄) ≤ 5% of mass of cement in mix Water cement ratio ≤ 0.4 Water sulphate (As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Curing time 1 hour to reach structural strength 40 N/mm² Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Temperature of mixed mortar: 5 to 25 degrees centigrade. Curing time 1 hour to reach structural strength 40 N/mm² Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Aggregate size Aggregate size in bedding mortar: 2.8mm Aggregate size in bedding				(SO ₄) ≤ 5%of mass of cement in mix
Water sulphate content waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade.			Cement	Portland Cement CEM1 complying with BSEN 197-1
Bedding mortar for bound construction L-MH3 BS 7533-10 /2004 Type A Aggregate size Maximum aggregate size in bedding mortar: 5 to 25 degrees centigrade. Curing time Aggregate size BS 7533-10 /2004 Type A BS 753-10 /2004 Type A BS 7533-10			Water cement ratio	≤ 0.4
Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Bedding mortar for bound construction BS 7533-10 /2004 Type A BS 7533-10 /2004 Type A Aggregate size Maximum aggregate size in bedding mortar: 2.8mm			•	
Bedding mortar for bound construction L-MH3 BS 7533-10 /2004 Type A BS 7533-10 /2004 Type A Minimum Compressive strength Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Chloride Ion content ≤ 0.1% of mass Acid soluble sulphate Cement Portland Cement CEM1 complying with BSEN 197-1. Water cement ratio ≤ 0.4 Water sulphate content Waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Rapid set bedding mortar Rapid set bedding mortar Aggregate size Maximum aggregate size in bedding mortar: 2.8mm				
for bound construction L-MH3 BS 7533-10 /2004 Type A BS 7533-10 /2004 Type A Aggregate size				
tonstruction L-MH3 BS 7533-10 /2004 Type A Strength Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Chloride lon content ≤ 0.1% of mass Acid soluble sulphate Cement Portland Cement CEM1 complying with BSEN 197-1. Water cement ratio ≤ 0.4 Water sulphate (As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Rapid set bedding mortar Rapid set bedding mortar Aggregate size Maximum aggregate size in bedding mortar: 2.8mm		Pering stoses/with III operany mode bedding minter to consult make		40 N/mm ²
L-MH3 BS 7533-10 /2004 Type A Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Chloride Ion content ≤ 0.1% of mass Acid soluble Sulphate Cement Portland Cement CEM1 complying with BSEN 197-1. Water cement ratio ≤ 0.4 Water sulphate (As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Rapid set bedding mortar Rapid set bedding mortar Aggregate size Maximum aggregate size in bedding mortar: 2.8mm		-Submore		
BS 7533-10 /2004 Type A Chloride Ion content			·	Mayimum agaragata sina in hadding martari 2 0mm
Acid soluble sulphate Cement Portland Cement CEM1 complying with BSEN 197-1. Water cement ratio ∀ Mater sulphate content Water sulphate content Vaters), to BS EN 1008. Rapid set bedding mortar Acid soluble sulphate (SO₄) ≤ 5%of mass of cement in mix (SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Curing time 1 hour to reach structural strength 40 N/mm² Aggregate size Maximum aggregate size in bedding mortar: 2.8mm	L-IVII 13		<u> </u>	
Sulphate Cement Portland Cement CEM1 complying with BSEN 197-1. Water cement ratio ≤ 0.4 Water sulphate content vaters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Rapid set bedding mortar Curing time Aggregate size Maximum aggregate size in bedding mortar: 2.8mm		/2004 Type A		
Cement Portland Cement CEM1 complying with BSEN 197-1. Water cement ratio ≤ 0.4 Water sulphate content (As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Rapid set bedding mortar Curing time 1 hour to reach structural strength 40 N/mm² Aggregate size Maximum aggregate size in bedding mortar: 2.8mm				$(SO_4) \le 5\%$ of mass of cement in mix
Water cement ratio ≤ 0.4 Water sulphate (As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Rapid set bedding mortar Curing time 1 hour to reach structural strength 40 N/mm² Aggregate size Maximum aggregate size in bedding mortar: 2.8mm			·	Portland Cement CEM1 complying with BSEN 197-1.
content waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Rapid set bedding mortar Curing time 1 hour to reach structural strength 40 N/mm² Aggregate size Maximum aggregate size in bedding mortar: 2.8mm			Water cement ratio	1 2 2
Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Rapid set bedding mortar Curing time 1 hour to reach structural strength 40 N/mm² Aggregate size Maximum aggregate size in bedding mortar: 2.8mm				
Rapid set bedding mortar Curing time 1 hour to reach structural strength 40 N/mm² Aggregate size Maximum aggregate size in bedding mortar: 2.8mm			Temperature	
bedding mortar Aggregate size Maximum aggregate size in bedding mortar: 2.8mm	Rapid set			
				5
	Ü		Chloride Ion content	≤ 0.1% of mass



SSDIVI KEV	for bound construction	Pluring stronklerts Ragikulia - (veren printe - badding marke - badding marke - try preven marke	Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
	L-MHX	- Suburate	Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Weak bedding	For use where	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	mortar for	there is no	Chloride Ion content	≤ 0.1% of mass
	bound construction	vehicle overrun. Plastic Mortar:	Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
	L-MWK12	Class M12 to	Cement	Portland Cement CEM1 complying with BSEN 197-1
		BS EN 998-2:	Water cement ratio	≤ 0.4
		2005 (e.g. a 1:3 cement:sand mix)	Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Bound jointing mortar	Jointing mortar for bound construction	BS 7533-10 /2004 5 -8mm joint	Minimum Compressive Strength	50 N/mm ²
	J-MH1	gap	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass
			Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Jointing mortar for bound construction	BS 7533-10 /2004	Minimum Compressive strength	25 N/mm ²
	J-MH2		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass



			Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
	Jointing mortar for bound	BS 7533-10 /2004	Min. Compressive strength	40 N/mm ²
	construction		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	J-MH3		Chloride Ion content	≤ 0.1% of mass
			Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
	Rapid set	BS 7533-10	Curing time	1 hour to reach structural strength 40 N/mm ²
	jointing mortar	/2004	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	for bound		Chloride Ion content	≤ 0.1% of mass
	construction		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
	J-MHX		Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
Permeable Jointing	Quartz Arenite jointing sand for		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation.
Sand	permeable		Particle size	2 – 4mm
	joints		Oven dried density	>2000kg/m ³
	J-QZ2/4		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
			AIV	Aggregate Impact Value < 30%
			Abrasion resistance	Los Angeles Value <30% loss
			Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.



6.2	World Centre - Option B - Surfacing Materials Palette				
Heavy	Granite natural		Dimensions	600mm wide x 750mm long x 90mm thick	
overrun	stone slab		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).	
footway	paving		Upper arris	Upper arris (BS EN 1341:2012): Square/sharp.	
	(600x750x90).		Lower arris	Lower arris (BS EN 1341:2012): Square/sharp.	
	Silver Grey F-NS(90)-G1		Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should remain visibly evident even when viewed in this way. Dark Mafic mineral grains	
			Appearance	to have lightness value of 0-1 on the Munsell Colour Scale. Natural plutonic micro-granodiorite or micro-tonalite granitoid stone slab in accordance with BS EN 1341:2012. Other 'commercial' granites with less than 20% quartz may be accepted at the approving officer's discretion providing general finish requirements are met.	
			Texture	Texture (BS EN 1341:2012): Fine textured (diamond sawn) to all sides. Upper face subsequently coarse textured (flamed treatment).	
			Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 12.5 MPa.	
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.	
			Weathering	Change between 0 cycles and 56 cycles to be ≤ 20%.	
			Slip resistance	Wet – mean (BS EN 1341:2012): ≥ 65 USRV.	
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.	
Light	Granite natural		Dimensions	600mm wide x 750mm long x 80mm thick	
overrun	stone slab		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).	
footway	paving		Upper arris	Upper arris (BS EN 1341:2012): Square/sharp.	
	(600x750x80).		Lower arris	Lower arris (BS EN 1341:2012): Square/sharp.	
	Silver Grey F-NS(80)-G1 or F-NS(90)-G1		Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should remain visibly evident even when viewed in this way. Dark Mafic mineral grains to have lightness value of 0-1 on the Munsell Colour Scale.	
			Appearance	Natural plutonic micro-granodiorite or micro-tonalite granitoid stone slab in accordance with BS EN 1341:2012. Other 'commercial' granites with less than 20% quartz may be accepted at the approving officer's discretion providing general finish requirements are met.	



			Texture	Texture (BS EN 1341:2012): Fine textured (diamond sawn) to all sides. Upper
			Dracking lood	face subsequently coarse textured (flamed treatment).
			Breaking load Abrasion resistance	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 12.5 MPa.
				Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
			Slip resistance	Wet – mean (BS EN 1341:2012): ≥ 65 USRV.
			Dimensions	600mm wide x 750mm long x 80mm thick
			Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).
Main	Granite natural		Dimensions	Various width x 750mm long x 90mm thick
footway/	stone slab		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2).
footpath	paving		Upper arris	Upper arris (BS EN 1341:2012): Square/sharp.
surface	(600x750x90).		Lower arris	Lower arris (BS EN 1341:2012): Square/sharp.
channel	Silver Grey		Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral
	F-NS(90)-G1	Slabs cut to	•	grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided
		appropriate		eye at a distance of 2m under natural light to be N8.25 - N8.5, though the
		width as		material's composition from individual white, grey and black grains should
		described in		remain visibly evident even when viewed in this way. Dark Mafic mineral grains
		Design		to have lightness value of 0-1 on the Munsell Colour Scale.
		Standards 130	Appearance	Natural plutonic micro-granodiorite or micro-tonalite granitoid stone slab in
		and 118 to form		accordance with BS EN 1341:2012. Other 'commercial' granites with less
		surface channel		than 20% quartz may be accepted at the approving officer's discretion
		detail.	Taxetima	providing general finish requirements are met.
			Texture	Texture (BS EN 1341:2012): Fine textured (diamond sawn) to all sides. Upper
			Drooking load	face subsequently coarse textured (flamed treatment).
			Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 12.5 MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Weathering	Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Wet – mean (BS EN 1341:2012): ≥ 65 USRV.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
		Dimensions	Various width x 750mm long x 90mm thick	
Trim	Granite cube		Dimensions	80mm wide x 80mm long x 80mm thick. No undersized units to be included in
	(80x80x80).			delivery as units intended to be laid in stretcher or stack bond not an arc.
	Cropped to		Deviations	Deviations on face irregularity (BS EN 1342:2012): Class 2.
	sides. For		Tolerance	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012):
	laying in			Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2
	stretcher / stack		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red



	bond. Silver Grey, Mid Grey, Dark Grey or		Appearance	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To be a true granite, granitoid or commercial granite. In the case of Dark Grey colour units may be an extrusive igneous rock basalt.
	Grey-Red. B-NS-G2(80)- CR-STR		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative. Sides and base (BS EN 1342:2012): Hewn/cropped (generally only acceptable to areas not trafficked by pedestrians).
			Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm
			Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
			Density	Apparent density and open porosity - means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Vehicle crossing plateau surface Occasion al use	Granite natural stone slab paving (600x750x90). Silver Grey F-NS(90)-G1		As above.	As above.
Vehicle crossing	Granite sett (200x100x100).		Dimensions	Nominal (BS EN 1342:2012): 200mm long x 100mm wide x 100mm thickness (10/20/10 designation).
plateau surface Frequent	Sawn to sides. Silver Grey, Mid Grey, Mid Grey		Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
use	or Grey-Red.		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
	B-NS-G3(100)- SW To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20%	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To be a true granite/granitoid		Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Texture - sides (BS EN 1342:2012): Coarse textured (diamond sawn then sand blasted or bush hammered/fine picked). Texture - base (BS EN 1342:2012): May be either hewn/cropped or fine textured (sawn).
	Dark Grey.	or commercial	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	Daik Oley.		Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.



SSDIW K	Granite sett (200x100x100). Cropped to sides. Silver grey, Mid Grey, Dark Grey or Grey-Red. B-NS-G3(100)- CR To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.	granite. In the case of Dark Grey colour units may be an extrusive igneous rock basalt. ranite sett (00x100x100). The color of the col	Freeze/thaw resistance Density/porosity Breaking strength Skid resistance Dimensions Tolerances Colour Texture Water absorption Abrasion resistance	Under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%. (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25% Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa. Wet mean (BS EN 1342:2012): ≥ 70 USRV Nominal (BS EN 1342:2012): 200mm long x 100mm wide x 100mm thickness (10/20/10 designation). Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Note that the associated +/- variation is a requirement rather than a permissible tolerance in order to permit laying in arcs and avoid creation of a sheer plane. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2. Silver Grey, Mid Grey, Dark Grey or Grey-Red Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Texture - sides (BS EN 1342:2012): Coarse textured (diamond sawn then sand blasted or bush hammered/fine picked). Texture - base (BS EN 1342:2012): May be either hewn/cropped or fine textured (sawn). Higher expected value (BS EN 1342:2012): ≤ 0.35%. Higher expected value (BS EN 1342:2012): ≤ 23mm.
			Freeze/thaw resistance Density/porosity Breaking strength Skid resistance	Under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%. (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25% Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa. Wet mean (BS EN 1342:2012): ≥ 70 USRV
Vehicle crossing ramp surface	Granite sett (200x100x100). Cropped or sawn to sides. Silver grey, Mid Grey, Dark Grey or Grey-Red. B-NS-G3(100)- CR or		As above. Natural intrusive igneous rock sett in accordance with BS EN 1342:2012.	As above. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.



	B-NS-G3(100)- SW			
Main Carriage way surface	Bituminous mixture surface course.	Control of the contro		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
	Granite sett (240x160x160). Sawn to sides.		Dimensions	Nominal (BS EN 1342:2012): 240mm long x 160mm wide x 160mm thick. Rectangular plan and section. All opposing faces planar to one another. All adjacent faces perpendicular to one another.
	Silver grey, Mid grey, Dark Grey or Grey-Red		Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
	B-NS-G4(160)- SW	Natural intrusive igneous rock sett	Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey. Other colour mixtures may be permitted or instructed by Approving Officers.
	in accordance with BS EN 1342:2012. To be a true granite/ granitoid or commercial	Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians) sides (BS EN 1342:2012): Coarse textured (diamond sawn then sand blasted or bush base (BS EN 1342:2012): May be either hewn/cropped or fine textured (sawn).	
		granite. In the	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
		case of Dark	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
	Grey colour units may be an	Grey colour units may be an	Freeze/thaw resistance	Under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
		extrusive igneous		Open porosity - means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
		rock basalt.	Breaking strength	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
	Granite sett		Dimensions	Nominal (BS EN 1342:2012): 240mm long x 160mm wide x 160mm thick.
	(240x160x160). Cropped to sides. Silver grey, Mid grey, Dark Grey or	Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Note that the associated +/- variation is a requirement rather than a permissible tolerance in order to permit laying in arcs and avoid creation of a sheer plane. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.	
	Grey-Red. B-NS-G4(160)- CR	Natural intrusive	Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey. Other colour mixtures may be permitted or instructed by Approving Officers.



OGDINI NEV	9: November 2022	igneous rock sett in accordance with BS EN 1342:2012. To be a true granite/ granitoid or commercial granite. In the case of Dark Grey colour units may be an extrusive igneous rock basalt.		Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Higher expected value (BS EN 1342:2012): ≤ 0.35%. Higher expected value (BS EN 1342:2012): ≤ 23mm. Under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%. (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25% Lower expected value (BS EN 1342:2012): ≥ 180 MPa. Nominal (BS EN 1342:2012): 240mm long x 160mm wide x 160mm thick.
	Granite sett (200x100x100) B-NS-G3(100)- CR or B-NS-G3(100)- SW		As above. Natural intrusive igneous rock sett in accordance with BS EN 1342:2012.	As above. Use may be acceptable if it can be demonstrated that achievable cover is limited and prevents use of deeper items. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey
	Imitation granite sett precast concrete blocks. Anti- shift units. Silver grey to BS EN 1338:2003		Dimensions Upper arris Lower arris Facing layer thickness Spacer nibs	150mm wide x 300mm long x 100mm thick. BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit. BS EN 1338:2003 Square BS EN 1338:2003 ≥ 6mm To be as SF-Kooperation VS units or similar approved. Side faces to include substantial nibs located at regular ≤ 42mm centres so as to interlock between
	B-PC(AS)-G1a		Colour	nibs of opposing units. Each nib to protrude by 3mm from side of unit and be approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 - 15mm recessed beneath upper face. Method of interlock to be such that individual units may still be removed by vertical lifting following installation. Facing layer overall colour when viewed from a distance of 2m is silver grey as Munsell Colour (Neutral Scale) N 7.25/_46.8% R. Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath
			Density of facing Texture	facing layer: generic grey. BS EN 1338:2003.≥ 375kg/m³ Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates.



	perpendicular to the dominant carriageway edge.	Water absorption Abrasion resistance Freeze/thaw	Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. BS EN 1338:2003 Class 2(B) BS EN 1338:2003 Class 3(D)	
		Method of manufacture	Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing	
Imitation granite		Dimensions	150mm wide x 300mm long x 100mm thick.	
sett precast concrete blocks. Anti-	-, 16	Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.	
shift units. Mid	CHARLESTON	Lower arris	BS EN 1338:2003 Square	
grey to BS EN	/	Facing layer thickness	BS EN 1338:2003 ≥ 6mm	
1338:2003 B-PC(AS)-G1b Mixed with	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and	To be laid in an	Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include substantial nibs located at regular ≤ 42mm centres so as to interlock between nibs of opposing units. Each nib to protrude by 3mm from side of unit and be approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 - 15mm recessed beneath upper face. Method of interlock to be such that individual units may still be removed by vertical lifting following installation.
		Colour	Facing layer overall colour when viewed from a distance of 2m is mid grey as Munsell colour (neutral scale) N 6.0 /_30.0% Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey.	
	20% G1c in a	Density of facing	BS EN 1338:2003.≥ 375kg/m ³	
	stretcher Bond running perpendicular to the dominant carriageway edge.	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be \geq 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules $>$ 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules $>$ 0.5mm diameter.	



SSDIVI NEV S	9: November 2022	T	I sar	SOLUTION ACCOUNT
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing
	Imitation granite		Traffic bonding	Side face nib and base face treatments to achieve sufficient frictional interlock
	sett precast		requirement	between units and laying course to permit laying as BS 7533-1:2001 in sites
	concrete			experiencing 3 million design life standard axles or greater in stretcher bond
	blocks. Anti-			and without intermediary restraints.
	shift units. Dark	The same of the sa	Dimensions	150mm wide x 300mm long x 100mm thick.
	grey to BS EN		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm
	1338:2003			horizontal chamfer dimension. Chamfer to be flat as moulded then lightly
	B-PC(AS)-G1c			abraded due to texturisation for upper face of unit.
			Lower arris	BS EN 1338:2003 Square
			Facing layer thickness	BS EN 1338:2003 ≥ 6mm
			Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include
		To be laid in an	·	substantial nibs located at regular ≤ 42mm centres so as to interlock between
		evenly		nibs of opposing units. Each nib to protrude by 3mm from side of unit and be
		distributed mix		approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 -
		of 20% G1a,		15mm recessed beneath upper face. Method of interlock to be such that
		60% G1b and		individual units may still be removed by vertical lifting following installation.
		20% G1c in a	Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as
		stretcher		Munsell colour (neutral scale) N 5 /_19.8%R. Grey, black and white grains to
		Bond running		stand out from back ground colour. Bed face and sides beneath facing layer:
		perpendicular to		generic grey.
		the dominant	Density of facing	BS EN 1338:2003.≥ 375kg/m ³
		carriageway	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
		edge.		layer to be ≥ 50% exposed stent (or other secondary granite aggregates.
				Facing layer may also include blast furnace slag or recycled aggregates in
				imitation of natural stone granite. Monochrome salt and pepper appearance.
				Crushed granite and other face mix materials to be 1 -3mm in diameter with
				none exceeding 5mm. Even overall distribution of different grain types. Close
				distribution of matic granules with typical spacing of 0.4 - 0.75mm between
				matic granules > 1mm in diameter. Typical spacing between glinting mica
				imitation granules not to exceed 10mm between granules > 0.5mm diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)



Parking Bay Surface	Bituminous mixture surface course	TO THE PROPERTY OF THE PROPERT		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
	Granite sett (240x160x160). B-NS-G4(160)- SW or B-NS-G4(160)- CR		As above. Cropped or sawn to sides.	As above. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.
	Granite sett (200x100x100). B-NS-G3(100)- CR or B-NS-G3(100)- SW		As above. Cropped or sawn to sides. Natural intrusive igneous rock sett in accordance with BS EN 1342:2012.	As above. Use may be acceptable if it can be demonstrated that achievable cover is limited and prevents use of deeper items. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.
	Imitation granite sett precast concrete blocks. Anti-shift units. Silver, Mid and Dark grey to BS EN 1338:2003	B-PC(AS)-G1a B-PC(AS)-G1b B-PC(AS)-G1c	As above.	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge.
	Imitation Granite		Dimensions	Mix of 208 and 173mm long x 173mm long x 80mm thick.
	Setts precast concrete blocks		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical
	Infiltration joint		Lower arris	BS EN 1338:2003 Square
	units. Silver		Facing layer	BS EN 1338:2003 ≥ 6mm
	grey. 208/173x173x60		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
	B-PC(W80)-G1a			of jointing material. Extent of nib protrusion ≥ 6mm
	, ,		Colour	Facing layer overall colour when viewed from a distance of 2m is silver grey as Munsell colour (neutral scale) N 7.25/_46.8%R. Grey, black and white and
	To be laid in an			glassy aggregate grains to stand out from back ground colour. Bed face and
	evenly distributed mix			sides beneath facing layer: generic grey
	uistributea IIIIX		Density of facing	BS EN 1338:2003.≥ 375kg/m³



ODM NOV	of 60% G1a, 20% G1b and 20% G1c in a stretcher bond running perpendicular to the dominant carriageway edge. Other colour mixes may be or	G1b and G1c in a cher bond ng endicular to ominant igeway Other r mixes be or oted by oving Only likely as a	Texture Water absorption Abrasion resistance	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter. BS EN 1338:2003 Class 2(B) BS EN 1338:2003 Class 3(H) or Class 4(I)
	instructed by Approving Officers.		Freeze/thaw Method of manufacture	BS EN 1338:2003 Class 3(D) Two-layer press with separate facing layer. Units to be vapour cured for a minimum of 12 hours to reduce risk of efflorescence before packing.
	Imitation Granite Setts precast concrete blocks Infiltration joint units. Mid grey. 208/173x173x60 B-PC(W80)-G1b To be laid in an evenly distributed mix	ion Granite precast ete blocks ation joint Mid grey. 73x173x60 (W80)-G1b e laid in an expected mix 2% G1a, G1b and G1c in a exher bonding endicular to comminant Only likely as a no dig pavement construction over rooting zones of existing trees.	Dimensions Upper arris Lower arris Facing layer Spacer nibs Colour	Mix of 208 and 173mm long x 173mm long x 80mm thick. BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to upper face texturisation \leq 4mm horizontal \leq 2mm vertical. BS EN 1338:2003 Square BS EN 1338:2003 \geq 6mm Specialist nibs to side to promote ingress of water whilst preventing migration of jointing material. Extent of nib protrusion \geq 6mm. Facing layer overall colour when viewed from a distance of 2m is mid grey as Munsell colour (neutral scale) N 6/_30.0%R. Grey, black and white and glassy aggregate grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey.
	of 60% G1a, 20% G1b and 20% G1c in a stretcher bond running perpendicular to the dominant carriageway		Density of facing Texture	BS EN 1338:2003.≥ 375kg/m³ Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between



edge. Other			i manc orannes z imm in orannerer i voicar spacino neiween oinnino mica
colour mixes			matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter.
may be or		Water absorption	BS EN 1338:2003 Class 2(B)
			BS EN 1338:2003 Class 3(H) or Class 4(I)
			BS EN 1338:2003 Class 3(1) of Class 4(1)
Officers.			
			Two-layer press with separate facing layer. Units to be vapour cured for a
Imitation Cranita			minimum of 12 hours to reduce risk of efflorescence before packing.
			Mix of 208 and 173mm long x 173mm long x 80mm thick.
		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to
			upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical.
			BS EN 1338:2003 Square
			BS EN 1338:2003 ≥ 6mm
		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
D-1 C(VV 00)-G1C			of jointing material. Extent of nib protrusion ≥ 6mm
To be laid in an		Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as
			Munsell colour (neutral scale) N 5/_19.8%R. Grey, black and white and
			glassy aggregate grains to stand out from back ground colour. Bed face and
			sides beneath facing layer: generic grey.
20% G1b and		Density of facing	BS EN 1338:2003.≥ 375kg/m ³
20% G1c in a	construction over rooting zones of	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
stretcher bond			layer to be ≥ 50% exposed stent (or other secondary granite aggregates.
running			Facing layer may also include blast furnace slag or recycled aggregates in
perpendicular to	existing trees.		imitation of natural stone granite. Monochrome salt and pepper appearance.
the dominant			Crushed granite and other face mix materials to be 1 -3mm in diameter with
carriageway edge. Other colour mixes			none exceeding 5mm. Even overall distribution of different grain types. Close
			distribution of matic granules with typical spacing of 0.4 - 0.75mm between
			matic granules > 1mm in diameter. Typical spacing between glinting mica
	d by		imitation granules not to exceed 10mm between granules > 0.5mm diameter.
,		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
Officers.		Freeze/thaw	BS EN 1338:2003 Class 3(D)
		Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
		manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.
	instructed by Approving Officers. Imitation Granite Setts precast concrete blocks Infiltration joint units. Dark grey. 208/173x173x60 B-PC(W80)-G1c To be laid in an evenly distributed mix of 60% G1a, 20% G1b and 20% G1c in a stretcher bond running perpendicular to the dominant carriageway edge. Other colour mixes may be or instructed by Approving	instructed by Approving Officers. Imitation Granite Setts precast concrete blocks Infiltration joint units. Dark grey. 208/173x173x60 B-PC(W80)-G1c To be laid in an evenly distributed mix of 60% G1a, 20% G1b and 20% G1c in a stretcher bond running perpendicular to the dominant carriageway edge. Other colour mixes may be or instructed by Approving	instructed by Approving Officers. Abrasion resistance Freeze/thaw Method of manufacture Imitation Granite Setts precast concrete blocks Infiltration joint units. Dark grey. 208/173x173x60 B-PC(W80)-G1c To be laid in an evenly distributed mix of 60% G1a, 20% G1b and 20% G1c in a stretcher bond running perpendicular to the dominant carriageway edge. Other colour mixes may be or instructed by Approving Officers. Abrasion resistance Freeze/thaw Method of manufacture Dimensions Upper arris Lower arris Facing layer Spacer nibs Colour Texture Water absorption Abrasion resistance Freeze/thaw Method of



Raised Table Plateau Surface and Traffic Carpet Surface	Bituminous mixture surface course	Some Consideration Some Transit Frame Some Transit Frame Some Transit Frame Some Transit Frame Transit Fra		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
	Granite sett (240x160x160). B-NS-G4(160)- SW or B-NS-G4(160)- CR		As above. Cropped or sawn to sides.	As above. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.
	Granite sett (200x100x100). B-NS-G3(100)- CR or B-NS-G3(100)- SW		As above. Cropped or sawn to sides. Natural intrusive igneous rock sett in accordance with BS EN 1342:2012.	As above. Use may be acceptable if it can be demonstrated that achievable cover is limited and prevents use of deeper items. To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.
	Imitation granite sett precast concrete blocks. Anti-shift units. Silver, Mid and Dark grey to BS EN 1338:2003	B-PC(AS)-G1a B-PC(AS)-G1b B-PC(AS)-G1c	As above.	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge.
Raised Table Ramp Surface/ Traffic Carpet Ramp Surface	Bituminous mixture surface course	CONTROL OF THE PROPERTY OF THE	As above.	See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.



Traffic	Granite cube		Dimensions	80mm wide x 80mm long x 80mm thick. No undersized units to be included in
Carpet	(80x80x80).			delivery as units intended to be laid in stretcher or stack bond not an arc.
Plateau	Cropped to		Deviations	Deviations on face irregularity (BS EN 1342:2012): Class 2.
Reserve	sides. For laying		Tolerance	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012):
Materials	in stretcher /			Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2
	stack bond.		Colour	Silver Grey as oil stains should not be as conspicuous on small units.
	Silver Grey, Mid	100 mg	Appearance	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To
	Grey, Dark Grey			be a true granite, granitoid or commercial granite. In the case of Dark Grey
	or Grey-Red. B-NS-G2(80)-			colour units may be an extrusive igneous rock basalt.
	CR-STR		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn
	CK-STK			then bush hammered/fine picked). Where required by the Employer may be
				hewn/cropped as an alternative. Sides and base (BS EN 1342:2012):
				Hewn/cropped (generally only acceptable to areas not trafficked by
				pedestrians).
			Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm
			Weathering	Mean compressive strength (BS EN 1342:2012): Results to be declared.
			resistance	Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
			Density and porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	Granite cube 80x80x80mm	建造基金	Dimensions	80mm wide x 80mm long x 80mm thick (8/8/8 designation). For laying in arcs.
				Undersize units: Units to be produced for laying in arc patterns with 5% of
	grey to BS EN			units included in delivery having lengths and widths smaller than the
	1342:2012 B-NS-G2(80)-	49/141499		permitted minimums after applying permitted dimensional tolerances (e.g.
		For laying in		smaller than 80mm).
	CR/ARC	arcs.	Tolerances	Normal plan dimensions and thickness, undercut of sides and deviations on
				face irregularity to BS EN 1342:2012 Class 2.
			Colour	Silver grey, mid grey, dark grey or grey-red.
			Texture	Coarse textured as standard (diamond sawn then bush hammered/fine
				picked). Where required by employer may be hewn/cropped as an alternative
			144	(only acceptable in areas not trafficked by pedestrians).
			Water absorption	Higher expected value BS EN 1342:2012 ≤ 0.35%
			Abrasion resistance	Higher expected value BS EN 1342:2012 ≤ 23mm
			Freeze/thaw	Under normal conditions mean compressive strength (BS EN 1342:2012)
			resistance	results to be declared, Change between 0 cycles and 56 cycles to be ≤ 15%
			Density/porosity	BS EN 1342:2012 ≥ 2500kg/m ³ / ≤ 1.25%



			Breaking strength	Lower expected value BS EN 1342:2012 ≥ 180 MPa
	CED Temple Setts Granite sett (90 x150 x Varies) Split sides.	Dimensions	Nominal (BS EN 1342:2012): 90mm wide x 150mm depth x Varies (325, 275,225,175 and 125).	
			Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
	Flamed top.	Natural intrusive	Colour	Bluish Grey, Blue Grey, Basalt black, Green and Red mix.
	Bluish Grey, Blue Grey,	igneous rock sett in	Texture	Split sides. Sawn top and bottom, Upper face subsequently coarse textured (flamed treatment).
	Basalt black,	accordance with BS EN	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	Green or Red mix.	1342:2012. To	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
	S816-300-AAG	be a true	Freeze/thaw resistance	Mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
		granite/granitoid	Density/porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
		or commercial granite.	Breaking strength	Breaking strength, compressive strength - lower expected value (BS EN 1342:2012): ≥ 80 MPa.
			Skid resistance	Wet mean (BS EN 1342:2012): ≥ 65 USRV
	thick). Grey blue be exercis the use of stone with		Dimensions	Work dimensions (BS EN 1341:2012): 75mm thick. Mixed width gauges of 300/450/600/750mm. Random length though with max length: width ratio to any unit of 1.5:1.0 and vice versa.
			Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
		10,1	Upper arris	(BS EN 1341:2012): Square/sharp.
			Lower arris	(BS EN 1341:2012): Square/sharp.
			Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
			Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
			Texture	Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
			Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 19.0 MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 23mm.
		carriageway	Weathering	Durability, freeze/thaw resistance - mean flexural strength (BS EN 1341:2012):
		areas as it tends	resistance	Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Slip resistance wet - mean (BS EN 1341:2012): ≥ 75 USRV.



		to stain heavily	Water absorption	Higher expected value (BS EN 1341:2012): ≤ 2.0%.
		from vehicle over-run.	Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
	Narrow pressed clay pavers (212x52x70). Grey-buff.		Dimensions	Nominal (BS EN 1344:2002): 215mm long x 52mm wide x 70mm thick. Minor variants (+/- 4mm) on the preceding dimensions may be permitted by approving officers. Rectangular plan and section. All opposing faces planar to one another. All adjacent faces perpendicular to one another.
	B-CP-1c	Units should be	Tolerances	Dimensional tolerances range (BS EN 1344:2002): Class R1. Dimensional tolerances mean (BS EN 1344:2002): Class U3.
		laid on 50mm wide face so as	Colour	Subtly varying grey-buff to all sides ranging through approximate Munsell Colours 2.5Y8/1, 2.5 7/1, 2.5Y 6/1, 2.5Y 6/2 and 2.5YR5/1
		to be 70mm deep	Texture	Flat faces with tumbled edges. No further texturisation.
		deep	Water absorption	(BS EN 771-1:2011): Class W3.
			Abrasion resistance	(BS EN 1344:2002): Class A3 (+).
			Freeze/thaw	(BS EN 1344:2002): Class FP100.
			Density/porosity	(BS EN 1344:2002): Class C.
			Breaking strength	Transverse breaking load (BS EN 1344:2002): Class T4
			Skid resistance	(BS EN 1344:2002): Class A1.
	Narrow pressed clay pavers (185x45x90).	Units should be	Dimensions	Nominal (BS EN 1344:2002): 185mm long x 45mm wide x 90mm thick. Minor variants (+/- 4mm) on the preceding dimensions may be permitted by approving officers. Rectangular plan and section. All opposing faces planar to one another. All adjacent faces perpendicular to one another.
	Bronze.	laid on 50mm	Arris	Rounded/tumbled to all sides.
	B-CP-2a	B-CP-2a wide face so as to be 70mm deep	Colour	Subtly varying through buff-yellow and gold within and between units, all with a grey patina, to approx. Munsell Colours 2.5Y 8/2, 2.5Y 8/3, 2.5Y 7/3, 2.5 Y 7/4, 2.5y 7/6 and 2.5YR 7/4.
			Texture	Flat faces with tumbled edges. No further texturisation.
			Water absorption	(BS EN 771-1:2011): Class W3.
			Abrasion resistance	(BS EN 1344:2002): Class A3 (+).
			Freeze/thaw	(BS EN 1344:2002): Class FP100.
			Density/porosity	(BS EN 1344:2002): Class C.
			Breaking strength	Transverse breaking load (BS EN 1344:2002): Class T3
			Acid resistance	(BS EN 1344:2002): Class C.
Tactile surfacing	Blister tactile granite natural		Dimensions	Nominal (BS EN 1341:2012): 400mm wide x 400mm long x 80mm thick (excluding profile features).
Controlled crossing	stone paving slab (90mm		Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).



	thickness).	The state of	Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
	Silver grey.	And the second	Profile feature	(DD/CEN/TS 15209:2008): Type B1.
	micro- granodiorite micro-tonali granitoid ste slab in accordance BS EN 134 2012. Othe 'commercia granites wit		Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should remain visibly evident even when viewed in this way. Dark Mafic mineral grains to have lightness value of 0-1 on the Munsell Colour Scale.
		micro-tonalite granitoid stone	Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed by then unaided eye at a distance of 2m under natural light. On close inspection to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to 5mm. Size of grains to generally increase with lightness, with mafics typically in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm in size and feint quartz veining may be permissible subject to intensity and distribution. Overall distribution of grain sizes and colours to be fairly even.
		granites with	Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
		less than 20%	Apparent density	Mean (BS EN 1341:2012): ≥ 2600kg/m³ /≤1.25%.
	quartz may b accepted at the approving officer's	accepted at the	Breaking load	Flexural Strength – lower expected value (BS EN 1341:2012): ≥ 12.5Mpa.
		approving	Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
		discretion	Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
	general f	providing general finish requirements are met.	Slip resistance	Mean (BS EN 1341:2012): ≥ 65USRV.
Tactile	Blister tactile		Dimensions	(400mm wide x 400mm long x 75mm thick (excluding profile features).
surfacing Jn - Controlled	natural stone paving slab (75		Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
crossing		the state of the s	Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
			Profile feature	(DD/CEN/TS 15209:2008): Type B1.
			Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.



		Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
		Texture	(BS EN 1341:2012): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
		Water absorption	Higher expected value (BS EN 1341:2012): ≤ 2.0%.
		Density & Porosity	means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
		Breaking load	Breaking strength, flexural strength - lower expected value (BS EN 1341:2012): ≥ 19.0 MPa.
		Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 23mm.
		Durability, freeze/ thaw resistance	Mean flexural strength (BS EN 1341:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
		Slip resistance	Wet - mean (BS EN 1341:2012): ≥ 75 USRV
Tactile surface	Corduroy tactile granite	Dimensions	Nominal (BS EN 1341:2012): 400mm wide x 400mm long x 80mm thick (excluding profile features).
Corduroy	Corduroy natural stone paving slab (80mm	Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS EN 1341:2012): Class 2 (T2).
	thickness).	Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
	Silver grey.	Profile feature	(DD/CEN/TS 15209:2008): Type R1.
T(C)-NS/G(80)	Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided eye at a distance of 2m under natural light to be N8.25 - N8.5, though the material's composition from individual white, grey and black grains should remain visibly evident even when viewed in this way. Dark Mafic mineral grains to have lightness value of 0-1 on the Munsell Colour Scale.	
		Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed by then unaided eye at a distance of 2m under natural light. On close inspection to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to 5mm. Size of grains to generally increase with lightness, with mafics typically in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm in size and feint quartz veining may be permissible subject to intensity and distribution. Overall distribution of grain sizes and colours to be fairly even.
		Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
		Apparent density	Mean (BS EN 1341:2012): ≥ 2600kg/m³ /≤1.25%.
		Breaking load	Flexural Strength – lower expected value (BS EN 1341:2012): ≥ 12.5MPa.
		Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.



			Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Wet - mean (BS EN 1341:2012): ≥ 75 USRV
Tactile	Ladder/tram		Dimensions	Nominal (BS EN 1341:2012): 400mm wide x 400mm long x 80mm thick
Surface	line tactile			(excluding profile features).
Ladder /	granite natural		Tolerances	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances
Tramline	stone paving			on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS
	slab (80mm			EN 1341:2012): Class 2 (T2).
	thick). Silver		Upper/ lower arris	(BS EN 1341:2012): Square/sharp.
	grey.		Profile feature	(DD/CEN/TS 15209:2008): Type R3.
	T(L)-NS/G(80)		Colour	Pale grey to off-white. No or extremely minimal coloured feldspar mineral
				grains. Overall Munsell Colour (Neutral Scale) when viewed by the unaided
				eye at a distance of 2m under natural light to be N8.25 - N8.5, though the
				material's composition from individual white, grey and black grains should
				remain visibly evident even when viewed in this way. Dark Mafic mineral
			_	grains to have lightness value of 0-1 on the Munsell Colour Scale.
			Appearance	Cloudy/glassy finish due to flaming. Visibly coarse textured when viewed by
				then unaided eye at a distance of 2m under natural light. On close inspection
				to be verging on the porphyritic. Grain sizes to range from approx. 0.5mm to
				5mm. Size of grains to generally increase with lightness, with mafics typically in the range of 0.5-1.0mm. Both occasional lighter phenocrysts of up to 10mm
				in size and feint quartz veining may be permissible subject to intensity and
				distribution. Overall distribution of grain sizes and colours to be fairly even.
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 0.35%.
			Apparent density	Mean (BS EN 1341:2012): ≥ 2600kg/m³ /≤1.25%.
			Breaking load	Flexural Strength – lower expected value (BS EN 1341:2012): ≥ 12.5MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 18mm.
			Weathering resistance	Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Wet - mean (BS EN 1341:2012): ≥ 75 USRV
Reserve	Yorkstone	pt 1	Dimensions	(BS EN 1341:2012): 300mm wide x 200/300/450mm random length x 75mm
Footway	natural stone		Diffictions	thick. May be used in 300x450x75mm single size where agreed in advance
Materials	slab paving	ATA		with approving officer.
Materiale	(300 wide x		Deviations	Tolerances on plan dimensions (BS EN 1341:2012): Class 2 (P2). Tolerances
	variable 200-		Deviations	on diagonals (BS EN 1341:2012): Class 2 (D2). Tolerances on thickness (BS
	450 length x 75	711		EN 1341:2012): Class 2 (T2).
	thick). Grey		Upper arris	(BS EN 1341:2012): Square/sharp.
	blue buff.		Lower arris	(BS EN 1341:2012): Square/sharp.
	F-NS(75)-Y3		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey'
				dark grey swirls/wisps throughout. Blue-greys to be between Munsell colours:
				dark grey swirls/wisps throughout. Blue-greys to be between Munsell colours:



	Verriber 2022			CLEV 4 9/N CLEV 4 7/N and N CE/ 20 20/ D. Cray by #6 to be between
			GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.	
			Appearance	Transition between areas of different colour to be generally smooth though mild more banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
			Texture	(BS EN 1341:2012): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
			Breaking load	Flexural strength - lower expected value (BS EN 1341:2012): ≥ 19.0 MPa.
			Abrasion resistance	Higher expected value (BS EN 1341:2012): ≤ 23mm.
			Weathering	Feeze/thaw resistance - mean flexural strength (BS EN 1341:2012): Results
			resistance	to be declared. Change between 0 cycles and 56 cycles to be ≤ 20%.
			Slip resistance	Slip resistance wet - mean (BS EN 1341:2012): ≥ 75 USRV
			Water absorption	Higher expected value (BS EN 1341:2012): ≤ 2.0%.
			Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
	rkstone		Dimensions	Nominal (BS EN 1338:2003): 100mm long x 100mm wide x 75mm thick.
	tural stone	NIE S	Deviations	Dimensional tolerances: As BS EN 1338:2003.
cub			Upper arris	(BS EN 1338:2003): Square/sharp.
`	00x100x75).		Lower arris	(BS EN 1338:2003): Square/sharp.
	Grey blue buff. B-NS(75)-Y1		Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsel Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
			Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
			Texture	Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
			Breaking load	Breaking strength, compressive strength - lower expected value (BS EN 1342:2012): ≥ 125 MPa.
			Abrasion resistance	higher expected value (BS EN 1342:2012): ≤ 23mm.
			Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV.
			Water absorption	Water absorption (BS EN 1342:2012): ≤ 2%.
			Density and porosity	Means (BS EN 1341:2012): ≥ 2400 kg/m3 / ≤ 5.75%
			Dimensions	Nominal (BS EN 1338:2003): 200mm long x 100mm wide x 75mm thick.



SSDIVI Rev	Yorkstone		Upper/lower arris	(BS EN 1338:2003): Square/sharp.
	natural stone		Tolerance	Dimensional tolerances: As BS EN 1338:2003.
	cube (200x100x75). Grey blue buff. B-NS(75)-Y2 Sedimentary	Sedimentary	Colour	Predominantly (80-85%) blue-grey with some (15-20%) buff. Faint 'smokey' dark grey swirls/wisps throughout. Blue-greys to be between Munsell Colours: GLEY 1_8/N, GLEY 1_7/N, and N 6.5/_36.2% R. Grey-buffs to be between Munsell Colours: 2.5Y 7/1, 2.5Y 6/1, 2.5 Y 7/2 and 2.5Y 6/2.
		carboniferous sandstone sett to BS EN	Appearance	Transition between areas of different colour to be generally smooth though mild banding to occasional units acceptable subject to visual assessment. As above, to include faint 'smokey' dark grey swirls/wisps throughout.
		1342:2012 Caution should	Texture	(BS EN 1338:2003): Fine textured (sawn to all sides). Shall not be flamed or shot blasted.
		be exercised	Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 125 MPa.
		using these units within	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		carriageway	Weathering resistance	(BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
		areas as	Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
		yorkstone tends	Density	Means (BS EN 1342:2012): ≥ 2400 kg/m3 / ≤ 5.75%.
	to stain heavily with vehicle over-run.	Water absorption	(BS EN 1342:2012): ≤ 2%.	
	Granite cube (80x80x80). Cropped sides. Silver Grey, Mid Grey, Dark Grey or Grey-Red. B-NS-G2(80)- CR-STR		As above.	As above.
	Granite sett (200x100x100). Sawn or cropped sides. B-NS-G3(100)- SW or B-NS-G3(100)- CR		As above.	As above.

SSDW Nev S	Granite sett (240x160x160). Sawn or cropped sides.		B-NS-G4(160)-SW or B-NS-G4(160)-CR	As above.
	Narrow pressed clay pavers (212x52x70). Grey-buff. B-CP-1c		As above. Units should be laid on 50mm wide face so as to be 70mm deep	As above.
	Narrow pressed clay pavers (185x45x90). Bronze. B-CP-2a		As above. Units should be laid on 50mm wide face so as to be 70mm deep	As above.
	Granite mosaic (50x50x50).		Dimensions	Work dimensions - nominal (BS EN 1342:2012): 50mm width x 50mm length x 50mm thick (5/5/5 designation).
	Silver Grey or Mid Grey. B-NS-G1(50)-	ilver Grey or id GreyNS-G1(50)-R Use will only be appropriate to lightly trafficked surfaces and will require the use of a bound/rigid construction. The cropped	Deviations	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
	CR		Density and porosity	Means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Colour	Silver Grey or Mid Grey
			Appearance	Natural plutonic igneous rock sett in accordance with BS EN 1342:2012. To be a true granite, granitoid or commercial granite.
			Texture	Texture - upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Texture – sides and base (BS EN 1342:2012): Hewn/cropped.
		upper face is not accessible so	Slip Resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
		alternative paths	Breaking load	Lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		for vulnerable	Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
		pedestrians.	Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.



			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Unbound bedding sand	bedding for		Particle size	0 – 4mm
	concrete stabs,		Oven dried density	>2000kg/m³
	natural stone	Primarily sea	Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	flags and concrete blocks	dredged coarse sand or washed	AIV	Aggregate Impact Value < 30%
	or clay pavers L-SS1	grit sand with no	Abrasion resistance	Los Angeles Value <30% loss
	L-331	organic matter	Flakiness Value	< 30
		to BS EN	Elongation Index	< 30
		12620:2013	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	Quartz arenite sand bedding		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. < 1 – 2% fines.
	for unbound	The state of the state of	Particle size	1 – 4mm
	carriageway	社会主义	Oven dried density	>2000kg/m ³
	concrete blocks or clay pavers L-QZ4 Quartz arenite sand bedding		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
			AIV	Aggregate Impact Value < 30%
			Abrasion resistance	Los Angeles Value <30% loss
			Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.
			Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation.
	for unbound	unbound rmeable riageway ncrete blocks clay pavers	Particle size	2 – 6mm
	permeable		Oven dried density	>2000kg/m ³
	carriageway concrete blocks or clay pavers L-QZ2/6		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
			AIV	Aggregate Impact Value < 30%
			Abrasion resistance	Los Angeles Value <30% loss
			Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.
Unbound	Sharp sand		Particle size	0 – 4mm
jointing	jointing sand for		Oven dried density	>2000kg/m ³
sand	unbound		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)



	footway		AIV	Aggregate Impact Value < 30%
	concrete stabs, natural stone		Abrasion resistance	Los Angeles Value <30% loss
	flags and		Flakiness Value	< 30
	concrete blocks		Elongation Index	< 30
	or clay pavers L-SS1	Primarily sea dredged coarse sand or washed grit sand with no organic matter to BS EN 12620:2013	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	Stabilised jointing sand for unbound footway concrete stabs, natural stone flags and concrete blocks or clay pavers L-X1	For use where there might be cleansing issues (vacuum cleaners sucking out jointing sand).	2 options	Sharp sand as above with a water miscible stabilising jointing liquid. A dry sharp sand and cement mix, brushed into the joints and then moistened with water.
	Stabilised jointing gravel for unbound footway concrete stabs, natural stone flags &	For use with wider joints.	options	0 - 8mm gravel with a water miscible stabilising jointing liquid. A dry 0 - 8mm gravel and cement mix, brushed into the joints and then moistened with water.
	concrete blocks or clay pavers L-X2			
Bedding mortar	Bedding mortar for bound	Pang states with Republish	Minimum Flexural strength	30 MPa
	construction L-MH1	BS 7533- 4/2006, Table 4,	Minimum Compressive Strength	50 N/mm ²
		clause 5.4.4.1	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass



Sulphate Cement Portland Cement CEM1 complying with BSEN 197-1 Water cement ratio ≤ 0.4 Water sulphate (As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Water absorption Of mixed mortar ≤ 0.4%	SSDIVI REV	9. November 2022			Southwark.goods
Dedding mortar for bound construction L-MH2 Bedding mortar Bedding mortar Bedding mortar Bedding mortar Bedding mortar Compressive strength Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Chloride Ion content ≤ 0.1% of mass (SO₄) ≤ 5% of mass of cement in mix South Selection South Se				Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
Water cement ratio ≤ 0.4 Water sulphate content					Portland Cement CEM1 complying with BSEN 197-1
Bedding mortar for bound construction L-MH2 Bedding mortar for bound construction L-MH3 Bedding mortar for b				Water cement ratio	
Bedding mortar for bound construction L-MH2 BS 7533-10 /2004 Type B Bedding mortar for bound construction L-MH2 BS 7533-10 /2004 Type B BS 7533-10 /2004 Type A Water absorption Of mixed mortar ≤ 0.4% Minimum aggregate size in bedding mortar: 2.8mm 25 N/mm² S N/mm²				•	
Bedding mortar for bound construction L-MH2 BS 7533-10 /2004 Type B Bedding mortar for bound construction L-MH2 BS 7533-10 /2004 Type B Bedding mortar for bound construction L-MH3 Bedding mortar for bound for bound construction L-MH3 Bedding mortar for bound for b				Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
for bound construction L-MH2 BS 7533-10 /2004 Type B Bedding mortar for bound construction L-MH3 For bound construction L-MH3 Compressive strength Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Sequence Size Maximum aggregate size in bedding mortar: 2.8mm Sequence Size Maximum aggregate size in bedding mortar: 2.8mm (As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Minimum (Compressive strength) Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Chloride Ion content ≤ 0.1% of mass Acid soluble (SO₄) ≤ 5% of mass of cement in mix				Water absorption	Of mixed mortar ≤ 0.4%
L-MH2 BS 7533-10 /2004 Type B Aggregate size		for bound	Post American Post Service Control of the Control	Compressive	25 N/mm ²
BS 7533-10		L-MH2	DO 7500 40		Maximum aggregate size in bedding mortar: 2.8mm
Acid soluble sulphate Cement Portland Cement CEM1 complying with BSEN 197-1 Water cement ratio ✓ 0.4 Water sulphate content Femperature Bedding mortar for bound construction L-MH3 BS 7533-10 /2004 Type A Acid soluble Sulphate (SO ₄) ≤ 5%of mass of cement in mix (As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. Minimum Compressive strength Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Chloride Ion content Acid soluble (SO ₄) ≤ 5%of mass of cement in mix					
Water cement ratio ≤ 0.4 Water sulphate (As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Minimum Compressive strength BS 7533-10 /2004 Type A Water cement ratio ≤ 0.4 Water sulphate (As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. 40 N/mm² Aggregate size in bedding mortar: 2.8mm Chloride Ion content ≤ 0.1% of mass Acid soluble (SO₄) ≤ 5% of mass of cement in mix			/2004 Type B		(SO ₄) ≤ 5%of mass of cement in mix
Water sulphate content (As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade. Minimum Compressive strength BS 7533-10 /2004 Type A Water sulphate (As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. 40 N/mm² Water sulphate (As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008. Temperature of mixed mortar: 5 to 25 degrees centigrade. 40 N/mm² Compressive strength Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Chloride Ion content ≤ 0.1% of mass Acid soluble (SO ₄) ≤ 5%of mass of cement in mix				Cement	Portland Cement CEM1 complying with BSEN 197-1
Bedding mortar for bound construction L-MH3 Bedding mortar for bound 2004 Type A Bedding mortar for bound 2004 Type A Compressive 3004 Soluble Compressive 3004 Soluble Compressive 3005 Soluble Comp				Water cement ratio	≤ 0.4
Bedding mortar for bound construction L-MH3 BS 7533-10 /2004 Type A Minimum Compressive strength Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Chloride Ion content ≤ 0.1% of mass Acid soluble (SO₄) ≤ 5% of mass of cement in mix				•	
for bound construction L-MH3 BS 7533-10 /2004 Type A Compressive strength Aggregate size Maximum aggregate size in bedding mortar: 2.8mm Chloride Ion content ≤ 0.1% of mass Acid soluble (SO ₄) ≤ 5%of mass of cement in mix				Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
BS 7533-10 /2004 Type A Chloride Ion content $\leq 0.1\%$ of mass Acid soluble (SO ₄) $\leq 5\%$ of mass of cement in mix		for bound	First control of the	Compressive	40 N/mm ²
		L-MH3			Maximum aggregate size in bedding mortar: 2.8mm
Acid soluble $(SO_4) \le 5\%$ of mass of cement in mix				Chloride Ion content	≤ 0.1% of mass
sulphate				Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
Cement Portland Cement CEM1 complying with BSEN 197-1				Cement	Portland Cement CEM1 complying with BSEN 197-1
Water cement ratio ≤ 0.4				Water cement ratio	≤ 0.4
Water sulphate (As SO₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal				•	
content waters), to BS EN 1008.					
Temperature Temperature of mixed mortar: 5 to 25 degrees centigrade.				Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Rapid set Curing time 1 hour to reach structural strength 40 N/mm²		Rapid set		Curing time	1 hour to reach structural strength 40 N/mm ²
bedding mortar Aggregate size Maximum aggregate size in bedding mortar: 2.8mm		bedding mortar			Maximum aggregate size in bedding mortar: 2.8mm
Chloride Ion content ≤ 0.1% of mass				Chloride Ion content	≤ 0.1% of mass



SSDIVI INEV	for bound	Paving stones/setts/flags/cob	Acid soluble	(SO ₄) ≤ 5%of mass of cement in mix
	construction L-MHX	bedding noter Typering noter Substitute	sulphate	(OC4) = 07001 mass of ocment in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Weak bedding	For use where	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	mortar for	there is no	Chloride Ion content	≤ 0.1% of mass
	bound construction	vehicle overrun. Plastic Mortar:	Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
	L-MWK12	Class M12 to BS EN 998-2: 2005 (e.g. a 1:3 cement:sand mix)	Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Bound jointing mortar	Jointing mortar for bound construction	BS 7533-10 /2004 5 -8mm joint	Minimum Compressive Strength	50 N/mm ²
	J-MH1	gap	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass
			Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Jointing mortar	BS 7533-10	Minimum	25 N/mm ²
	for bound	/2004	Compressive	
	construction		strength	
	J-MH2		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass



			Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
	Jointing mortar for bound	BS 7533-10 /2004	Min. Compressive strength	40 N/mm ²
	construction	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm	
	J-MH3		Chloride Ion content	≤ 0.1% of mass
		Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix	
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
	Rapid set	BS 7533-10	Curing time	1 hour to reach structural strength 40 N/mm ²
	jointing mortar for bound construction J-MHX	Chloride Acid solu Cement Water ce	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass
			Acid soluble sulphate	(SO ₄) ≤ 5% of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
Permeabl e Jointing	Quartz Arenite jointing sand for		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation.
Sand permeable joints		Particle size	2 – 4mm	
		Oven dried density	>2000kg/m ³	
	J-QZ2/4		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
			AIV	Aggregate Impact Value < 30%
			Abrasion resistance	Los Angeles Value <30% loss
			Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.



7 Docks Specification Areas

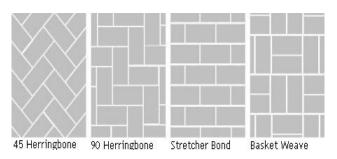
In the Docks Specification areas of Southwark, the carriageways are historically block pavers, but may also be bituminous pavements. The footways are either concrete or imitation clay pavers (including the plateaus of vehicle accesses). And one type of block paver used to raised tables; inset parking bays and the plateaus of heavily used vehicle accesses.



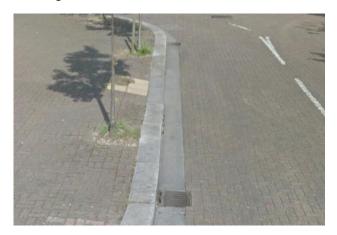
Red coloured narrow pressed clay block pavers, 212 x 52 x 70mm were the preferred surfacing material, laid on the 52mm wide face so as to be 70mm deep to reinforce the character of the redevelopment in this Dockland area, although in recognition of the increased "carbon cost" of baking clay pavers, and imitation red concrete "clay paver" would be preferred. However, red brindle coloured precast concrete block pavers, 200 x 100 x 80mm are a frequently utilised alternative.



Block pavers are typically laid in Basket weave bond to BS 7533-6:2006 on the footways and in a Herringbone bond to BS 7533-3:2006 on carriageways.



To ensure that concrete blocks last longer in future (e.g. surfaces do not abrade so quickly and colour doesn't bleach out); their method of manufacture should be to BS EN 1338:2003, incorporating a two layer press, with a separate facing layer. The units should be vapour cured for a minimum of 12 hours to reduce the risk of efflorescence before packing. The facing layer should be ≥6mm and have a bulk density ≥375kg/m³.



Kerbs are laid to present a 300mm wide face and are made from granite.

A reference sample of the imitation clay pavers or the red brindle concrete blocks shall be provided by the supplier (typically three pieces).



7.1	Docks Area - Surfacing Materials Palette				
Heavy overrun footway	Narrow concrete imitation clay pavers		Dimensions	Nominal (BS EN 1344:2002): 215mm long x 52mm wide x 70mm thick. Minor variants (+/- 4mm) on the preceding dimensions may be permitted by approving officers. Rectangular plan and section. All opposing faces planar to one another. All adjacent faces perpendicular to one another.	
	(212x52x70). Red	Units should be	Tolerances	Dimensional tolerances range (BS EN 1344:2002): Class R1. Dimensional tolerances mean (BS EN 1344:2002): Class U3.	
	B-ICP-1a	laid on 50mm	Colour	Red to all sides to approximate. Munsell Colour System 7.5R5/4.	
		wide face so as	Texture	Flat faces with tumbled edges. No further texturisation.	
		to be 70mm	Water absorption	(BS EN 771-1:2011): Class W3.	
		deep	Abrasion resistance	(BS EN 1344:2002): Class A3 (+).	
			Freeze/thaw	(BS EN 1344:2002): Class FP100.	
			Density/porosity	(BS EN 1344:2002): Class C.	
			Breaking strength	Transverse breaking load (BS EN 1344:2002): Class T4	
			Skid resistance	(BS EN 1344:2002): Class A1.	
Light overrun footway	Narrow concrete imitation clay pavers (212x52x70). Red B-ICP-1a		As above. Units should be laid on 50mm wide face so as to be 70mm deep.	As above.	
Main footway/ footpath surface channel	Narrow concrete imitation clay pavers (212x52x70). Red B-ICP-1a		As above. Units should be laid on 50mm wide face so as to be 70mm deep.	As above.	
Trim	Granite cube (80x80x80).	Front boundary	Dimensions	80mm wide x 80mm long x 80mm thick. No undersized units to be included in delivery as units intended to be laid in stretcher or stack bond not an arc.	
	Cropped to		Deviations	Deviations on face irregularity (BS EN 1342:2012): Class 2.	



	sides. For		Tolerance	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012):
	laying in stretcher / stack			Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2
		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red	
	bond. Silver		Appearance	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To
	Grey, Mid Grey,			be a true granite, granitoid or commercial granite. In the case of Dark Grey
	Dark Grey or Grey-Red.	Name and Control of the Control of t		colour units may be an extrusive igneous rock basalt.
	B-NS-G2(80)- CR-STR		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative. Sides and base (BS EN 1342:2012): Hewn/cropped (generally only acceptable to areas not trafficked by pedestrians).
			Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm
			Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
		aic	Density	Apparent density and open porosity - means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Street Furniture	Granite mosaic (50x50x50).		Dimensions	Work dimensions - nominal (BS EN 1342:2012): 50mm width x 50mm length x 50mm thick (5/5/5 designation).
Base	Mid Grey. B-NS-G1(50)-		Deviations	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
	CR		Density and porosity	Means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
		Colour	Silver Grey or Mid Grey	
			Appearance	Natural plutonic igneous rock sett in accordance with BS EN 1342:2012. To be a true granite, granitoid or commercial granite.
			Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to non-pedestrian areas). Sides and base (BS EN 1342:2012): Hewn/ cropped.
			Slip Resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
			Breaking load	Lower expected value (BS EN 1342:2012): ≥ 180 MPa.
			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
			Weathering	Mean compressive strength (BS EN 1342:2012): Results to be declared.
			resistance	Change between 0 cycles and 56 cycles to be ≤ 15%.



OODIVI IXCV	9: November 2022	1		southwark.gou/x
			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Vehicle crossing plateau surface Occasion al use	Narrow concrete imitation clay pavers (212x52x70). Red B-ICP-1a		As above. Units should be laid on 50mm wide face so as to be 70mm deep.	As above.
Vehicle crossing plateau surface Frequent use	Narrow concrete imitation clay pavers (212x52x70). Red B-ICP-1a		As above. Units should be laid on 50mm wide face so as to be 70mm deep.	As above.
Vehicle crossing ramp surface	Narrow concrete imitation clay pavers (212x52x70). Red B-ICP-1a		As above. Units should be laid on 50mm wide face so as to be 70mm deep.	As above.
Main Carriage way surface	Bituminous mixture surface course.	Series Variables Series Varia		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.



Narrow concrete imitation pavers (212x52) Red B-ICP-1a	clay (x70).	As above. Units should be laid on 50mm wide face so as to be 70mm deep.	As above.
Parking Bitumino mixture course	LOTAMB		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
Precast		Dimensions	100mm wide x 200mm long x 80mm thick.
concrete to BS EN		Upper arris	Pencil chamfered \leq 1.5mm vertical chamfer dimension, \leq 2.5mm horizontal chamfer dimension. Chamfer to be flat as moulded.
1338:200	CONTRACTOR OF THE PARTY OF THE	Lower arris	BS EN 1338:2003 Square
Red Brin (200x100	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN	Facing layer	BS EN 1338:2003 ≥ 6mm
B-PC(80	, I	Colour	Facing layer: red family colour brindle, comprising of a blend of brick-reds, browns and a few greys, and sometimes orange blocks.
		Density of facing	BS EN 1338:2003.≥ 375kg/m ³
		Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing
		Water absorption	BS EN 1338:2003 Class 2(B)
		Abrasion resistance	BS EN 1338:2003 Class 4(I)
		Freeze/thaw	BS EN 1338:2003 Class 3(D)
		Manufacture method	Two-layer press with separate facing layer. Units to be vapour cured



Raised Table Plateau Surface and Traffic Carpet Surface	Bituminous mixture surface course	Consideration of the second of		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
	Narrow concrete imitation clay pavers (212x52x70). Red B-ICP-1a	- 21	As above. Units should be laid on 50mm wide face so as to be 70mm deep.	As above.
	Precast concrete blocks to BS EN 1338:2003 Red Brindle (200x100x80). B-PC(80)- B1		As above.	As above.
Raised Table Ramp Surface/ Traffic Carpet Ramp Surface	Bituminous mixture surface course	Lorent Committee Lorent Annua Annua Ompe Lorent Annua Annua Ompe Temporal Annua Annua Ompe Lorent Annua Annua Ompe Temporal Annua Annua Ompe Lorent Annua Annua Ompe Temporal Annua Annua Ompe Lorent Annua Annua Omp	As above.	See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
Traffic Carpet	Granite cube (80x80x80).		Dimensions	80mm wide x 80mm long x 80mm thick. No undersized units to be included in delivery as units intended to be laid in stretcher or stack bond not an arc.
Plateau	Cropped to		Deviations	Deviations on face irregularity (BS EN 1342:2012): Class 2.
Reserve Materials	sides. For laying in stretcher /		Tolerance	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2



stack bond.	第一条 安全 经 债	Colour	Silver Grey as oil stains should not be as conspicuous on small units.
Silver Grey, Mid		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn
Grey, Dark Grey			then bush hammered/fine picked). Where required by the Employer may be
or Grey-Red.			hewn/cropped as an alternative. Sides and base (BS EN 1342:2012):
B-NS-G2(80)-			Hewn/cropped (generally only acceptable to non-pedestrian areas).
CR-STR		Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm
	Natural intrusive	Weathering	Mean compressive strength (BS EN 1342:2012): Results to be declared.
	igneous rock sett		Change between 0 cycles and 56 cycles to be ≤ 15%.
	in accordance	Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
	with BS EN 1342:2012. To be	Density and porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
	a true granite/	Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	granitoid or		
	commercial		
	granite		
	9		
Granite cube		Dimensions	80mm wide x 80mm long x 80mm thick (8/8/8 designation). For laying in arcs.
80x80x80mm	大学共身		Undersize units: Units to be produced for laying in arc patterns with 5% of
grey to BS EN	《公里公》		units included in delivery having lengths and widths smaller than the
1342:2012			permitted minimums after applying permitted dimensional tolerances (e.g.
B-NS-G2(80)-	For laying in		smaller than 80mm).
CR/ARC	arcs.	Tolerances	Normal plan dimensions and thickness, undercut of sides and deviations on
			face irregularity to BS EN 1342:2012 Class 2
		Colour	Silver grey, mid grey, dark grey or grey-red.
		Texture	Coarse textured as standard (diamond sawn then bush hammered/fine
			picked). Where required by employer may be hewn/cropped as an alternative
		Motor observation	(only acceptable in areas not trafficked by pedestrians).
		Water absorption	Higher expected value BS EN 1342:2012 ≤ 0.35%
		Abrasion resistance	Higher expected value BS EN 1342:2012 ≤ 23mm
		Freeze/thaw	Under normal conditions mean compressive strength (BS EN 1342:2012)
		resistance	results to be declared, Change between 0 cycles and 56 cycles to be ≤ 15%.
		Density/porosity	BS EN 1342:2012 ≥ 2500kg/m ³ / ≤ 1.25%
		Breaking strength	Lower expected value BS EN 1342:2012 ≥ 180 MPa.
Granite sett	Natural intrusive	Dimensions	Nominal (BS EN 1342:2012): 200mm long x 100mm wide x 100mm thickness
(200x100x100).	igneous rock sett		(10/20/10 designation).



Sawn to sides. Silver Grey, Mid Grey, Mid Grey	in accordance with BS EN	Tolerances	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
or Grey-Red.	AND A SHARE	Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
B-NS-G3(100)- SW To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.		Texture Water absorption Abrasion resistance Freeze/thaw resistance Density/porosity Breaking strength Skid resistance	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only non-pedestrians areas). Texture - sides (BS EN 1342:2012): Coarse textured (diamond sawn then sand blasted or bush hammered/fine picked). Texture - base (BS EN 1342:2012): May be either hewn/cropped or fine textured (sawn). Higher expected value (BS EN 1342:2012): ≤ 0.35%. Higher expected value (BS EN 1342:2012): ≤ 23mm. Under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%. (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25% Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa. Wet mean (BS EN 1342:2012): ≥ 70 USRV
Granite sett (200x100x100). Sawn to sides. Silver Grey, Mid Grey, Mid Grey		Dimensions Tolerances	Nominal (BS EN 1342:2012): 200mm long x 100mm wide x 100mm thickness (10/20/10 designation). Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
or Grey-Red.		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red
B-NS-G3(100)-CR To be laid in an evenly distributed mix of 60% Silver Grey, 20% Mid Grey and 20% Dark Grey.	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012.	Texture Water absorption Abrasion resistance Freeze/thaw resistance Density/porosity Breaking strength	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to non-pedestrian areas). Texture - sides (BS EN 1342:2012): Coarse textured (diamond sawn then sand blasted or bush hammered/fine picked). Texture - base (BS EN 1342:2012): May be either hewn/cropped or fine textured (sawn). Higher expected value (BS EN 1342:2012): ≤ 0.35%. Higher expected value (BS EN 1342:2012): ≤ 23mm. Under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%. (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25% Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
		Skid resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV



	Narrow pressed imitation clay pavers (185x45x90). Bronze. B-ICP-2a	Units should be laid on 50mm wide face so as to be 70mm deep	Arris Colour Texture Water absorption Abrasion resistance Freeze/thaw Density/porosity Breaking strength Acid resistance	Nominal (BS EN 1344:2002): 185mm long x 45mm wide x 90mm thick. Minor variants (+/- 4mm) on the preceding dimensions may be permitted by approving officers. Rectangular plan and section. All opposing faces planar to one another. All adjacent faces perpendicular to one another. Rounded/tumbled to all sides. Subtly varying through buff-yellow and gold within and between units, all with a grey patina, to approx. Munsell Colours 2.5Y 8/2, 2.5Y 8/3, 2.5Y 7/3, 2.5 Y 7/4, 2.5y 7/6 and 2.5YR 7/4. Flat faces with tumbled edges. No further texturisation. (BS EN 771-1:2011): Class W3. (BS EN 1344:2002): Class A3 (+). (BS EN 1344:2002): Class FP100. (BS EN 1344:2002): Class C. Transverse breaking load (BS EN 1344:2002): Class T3 (BS EN 1344:2002): Class C.
Tactile surfacin Controll crossing	concrete paving	See SSDM DS 207 about the use of tactile pavers.	Dimensions Deviations Upper arris Lower arris Colour Appearance Profile Feature Spacer nibs to sides Breaking load Abrasion resistance Weathering Manufacture method	400mm wide x 400mm long x 65mm thick (excluding profile features). BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3. BS EN 1339:2003 Square with no bevel or rounding. BS EN 1339:2003 Square with no bevel or rounding. Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency. Smooth with no exposed aggregate in upper face. DD/CEN/TS 15209:2008 Type B1. Optional. Where provided ≤ 1.75mm BS EN 1339:2003 Class 140(14).≥ 17.7KN BS EN 1339:2003 Class 4(I) BS EN 1339:2003 Class 3(D) Units may be single layer or two-layer press with separate facing layer
Factile surfacing Jn - Controlled crossing	Blister tactile precast concrete paving slab Buff colour 400x400x65mm T(B)-PC2	See SSDM DS 207 about the use of tactile pavers.	Dimensions Deviations Upper arris Lower arris Colour Appearance Profile Feature Spacer nibs to sides	400mm wide x 400mm long x 65mm thick (excluding profile features). BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3. BS EN 1339:2003 Square with no bevel or rounding. BS EN 1339:2003 Square with no bevel or rounding. Buff upper face. Smooth with no exposed aggregate in upper face. DD/CEN/TS 15209:2008 Type B1. Optional. Where provided ≤ 1.75mm



			Breaking load	BS EN 1339:2003 Class 140(14).≥ 17.7KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering	BS EN 1339:2003 Class 3(D)
			Manufacture method	Units may be single layer or two-layer press with separate facing layer
Tactile	Corduroy tactile	400	Dimensions	400mm wide x 400mm long x 65mm thick (excluding profile features)
surface	precast		Deviations	BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3
Corduroy	concrete paving		Upper arris	BS EN 1339:2003 Square with no bevel or rounding
	slab		Lower arris	BS EN 1339:2003 Square with no bevel or rounding
	Dark grey		Colour	Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency
	400x400x65mm	50 20 6±0.5 15	Appearance	Smooth with no exposed aggregate in upper face
	T(C)-PC2		Profile Feature	DD/CEN/TS 15209:2008 Type R1
			Spacer nibs to sides	Optional. Where provided ≤ 1.75mm
			Breaking load	BS EN 1339:2003 Class 140(14).≥ 17.7KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering	BS EN 1339:2003 Class 3(D)
			Manufacture Method	Units may be single layer or two-layer press with separate facing layer
Tactile	Ladder/tram	"Ladder" pattern on the footway or footpath "Tramline" pattern on the cycle track	Deviations	BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3.
Surface	line tactile		Upper arris	BS EN 1339:2003 Square with no bevel or rounding.
Ladder /	granite natural	35 30 <u>70</u>	Lower arris	BS EN 1339:2003 Square with no bevel or rounding.
Tramline	stone paving		Colour	Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency.
	slab (80mm		Appearance	Smooth with no exposed aggregate in upper face.
	thick). Silver	Profile Feature	DD/CEN/TS 15209:2008 Type B1.	
	grey. T(L)-NS/G(80)	ney.	Spacer nibs to sides	Optional. Where provided ≤ 1.75mm
	1(2) 110/0(00)		Breaking load	BS EN 1339:2003 Class 140(14).≥ 17.7KN
		400	Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering	BS EN 1339:2003 Class 3(D)
			Manufacture method	Units may be single layer or two-layer press with separate facing layer
Reserve	Precast	100	Dimensions	100mm wide x 200mm long x 60mm thick.
Footway			Upper arris	Pencil chamfered ≤ 1.5mm vertical chamfer dimension, ≤ 2.5mm horizontal
Materials	to BS EN			chamfer dimension. Chamfer to be flat as moulded.
	1338:2003		Lower arris	BS EN 1338:2003 Square
	Red Brindle		Facing layer	BS EN 1338:2003 ≥ 6mm
	(200x100x80). B-PC(60)- B1		Colour	Facing layer: red family colour brindle, comprising of a blend of brick-reds,
	D-1 O(00)- D1			browns and a few greys, and sometimes orange blocks.
			Density of facing	BS EN 1338:2003.≥ 375kg/m ³



			Texture	Flat to all faces (except nibs ≤ 1.75mm to sides). No decorative texturing.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Manufacture method	Two-layer press with separate facing layer. Units to be vapour cured.
Unbound	Sharp sand		Particle size	0 – 4mm
bedding	bedding for		Oven dried density	>2000kg/m ³
sand	unbound		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass).
	footway		AIV	Aggregate Impact Value < 30%
	concrete stabs,		Abrasion resistance	Los Angeles Value <30% loss
	natural stone	Primarily sea	Flakiness Value	< 30
	flags and	dredged coarse	Elongation Index	< 30
	concrete blocks or clay pavers	sand or washed grit sand with no	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	L-SS1	organic matter to		
		BS EN 12620:2013		
	Quartz arenite		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock
	sand bedding		'	fragments. Very hard particles to prevent fragmentation. < 1 – 2% fines.
	for unbound	计划形式数	Particle size	1 – 4mm
	carriageway	从设工大型	Oven dried density	>2000kg/m ³
	concrete blocks	发热报 类48	Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
	or clay pavers		AIV	Aggregate Impact Value < 30%
	L-QZ4	Application of the second	Abrasion resistance	Los Angeles Value <30% loss
			Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.
	Quartz arenite		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock
	sand bedding for unbound	AND STANKE	Dartiala aina	fragments. Very hard particles to prevent fragmentation.
	permeable		Particle size	2 – 6mm
	carriageway	表型形态性	Oven dried density	>2000kg/m ³
	concrete blocks	的是是一个	Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass).
	or clay pavers		AlV	Aggregate Impact Value < 30%
	L-QZ2/6	To be laid 50mm	Abrasion resistance	Los Angeles Value <30% loss
		thick	Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.



Unbound	Sharp sand		Particle size	0 – 4mm
jointing	jointing sand for	1	Oven dried density	>2000kg/m³
sand	unbound		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)
555	footway		AIV	Aggregate Impact Value < 30%
	concrete stabs,		Abrasion resistance	Los Angeles Value <30% loss
	natural stone	Primarily sea	Flakiness Value	< 30
	flags and	dredged coarse	Elongation Index	< 30
	concrete blocks	sand or washed	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	or clay pavers	grit sand with no	rilles value	11.0 as B3 EN 12020, less than 1% passing 0.003mm sieve.
	L-SS1	organic matter to		
		BS EN		
	Stabilised	12620:2013 For use where	2 options	Chara and as shows with a water missible stabilising is inting liquid
	jointing sand for	there might be	2 options	Sharp sand as above with a water miscible stabilising jointing liquid. A dry sharp sand and cement mix, brushed into the joints and then moistened
	unbound	cleansing issues		with water.
	footway	(vacuum		with water.
	concrete stabs,	cleaners		
	natural stone	sucking out		
	flags and	jointing sand).		
	concrete blocks	, ,		
	or clay pavers			
	L-X1			
	Stabilised	For use with	options	0 - 8mm gravel with a water miscible stabilising jointing liquid.
	jointing gravel	wider joints.		
	for unbound			A dry 0 - 8mm gravel and cement mix, brushed into the joints and then
	footway			moistened with water.
	concrete stabs,			
	natural stone			
	flags &			
	concrete blocks			
	or clay pavers L-X2			
Bedding	Bedding mortar	Plung stores visto ffugiciobles	Minimum Flexural	30 MPa
mortar	for bound	booking monter	strength	υνιτα
mortal	construction	- Subdysk	Min. Compressive	50 N/mm ²
	L-MH1		Strength	30 N/IIIII
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass
			Chionae fon content	≥ 0.1 /0 01 111a55



. November 2022	BS 7533- 4/2006, Table 4,	Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
	clause 5.4.4.1	Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
		Water absorption	Of mixed mortar ≤ 0.4%
Bedding mortar for bound construction	Pring plant and a facility of the facility of	Minimum Compressive strength	25 N/mm ²
L-MH2	BS 7533-10	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	/2004 Type B	Chloride Ion content	≤ 0.1% of mass
	72004 Type D	Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Bedding mortar for bound	Pering street virtue! - group years - bedding mater - bedding mater - substance - substance	Min. Compressive strength	40 N/mm ²
construction		Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
L-MH3	BS 7533-10	Chloride Ion content	≤ 0.1% of mass
	/2004 Type A	Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1
		Water cement ratio	≤ 0.4
		Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Rapid set	Pholing states (significant flags/cobb copyrights) provided to the company that is a constant of the company that is a constant of the company that is a constant of the const	Curing time	1 hour to reach structural strength 40 N/mm ²
bedding mortar	Typerag note: - Substale	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
for bound		Chloride Ion content	≤ 0.1% of mass
construction L-MHX		Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
		Cement	Portland Cement CEM1 complying with BSEN 197-1



			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Weak bedding	For use where	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	mortar for	there is no	Chloride Ion content	≤ 0.1% of mass
	bound construction	vehicle overrun. Plastic Mortar:	Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
	L-MWK12	Class M12 to	Cement	Portland Cement CEM1 complying with BSEN 197-1
		BS EN 998-2:	Water cement ratio	≤ 0.4
		2005 (e.g. a 1:3 cement:sand mix)	Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
		,	Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
Bound jointing	Jointing mortar for bound	BS 7533-10 /2004	Min. Compressive Strength	50 N/mm ²
mortar	construction	5 -8mm joint	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
Bound	J-MH1	gap	Chloride Ion content	≤ 0.1% of mass
jointing mortar	Jointing mortar for bound	BS 7533-10 /2004	Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix.
	construction J-MH2		Cement	Portland Cement CEM1 complying with BSEN 197-1
	J-IVITIZ		Water cement ratio	≤ 0.4
			Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
			Min. Compressive	25 N/mm ²
			strength	
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	Jointing mortar	BS 7533-10	Chloride Ion content	≤ 0.1% of mass
	for bound construction	/2004	Acid soluble sulphate	(SO ₄) ≤ 5%of mass of cement in mix
	J-MH3		Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.



	3. November 2022		Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Min. Compressive	40 N/mm ²
			strength	
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	Rapid set	BS 7533-10	Chloride Ion content	≤ 0.1% of mass
	jointing mortar	/2004	Acid soluble	(SO ₄) ≤ 5%of mass of cement in mix
	for bound		sulphate	
	construction J-MHX		Cement	Portland Cement CEM1 complying with BSEN 197-1
	J-IVIDA		Water cement ratio	≤ 0.4
			Water sulphate	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
			content	waters), to BS EN 1008.
			Curing time	1 hour to reach structural strength 40 N/mm ²
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	Jointing mortar	BS 7533-10	Chloride Ion content	≤ 0.1% of mass
	for bound	/2004	Acid soluble	(SO ₄) ≤ 5%of mass of cement in mix.
	construction		sulphate	
	J-MH1		Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
			Min. Compressive	50 N/mm ²
			Strength	
Permeabl	Quartz Arenite		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock
e Jointing	jointing sand for			fragments. Very hard particles to prevent fragmentation.
Sand	nd permeable joints J-QZ2/4		Particle size	2 – 4mm
			Oven dried density	>2000kg/m ³
			Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass).
			AIV	Aggregate Impact Value < 30%
			Abrasion resistance	Los Angeles Value <30% loss.
			Flakiness Value	< 30
			Elongation Index	< 30
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.



8 Village Specification Areas

In the Village Specification areas of Southwark, the carriageways are bituminous; the footways are either bituminous or a single type of flag paving (including the plateaus of vehicle accesses) and one type of block paver used to raised tables, inset parking bays and the plateaus of heavily used vehicle accesses.

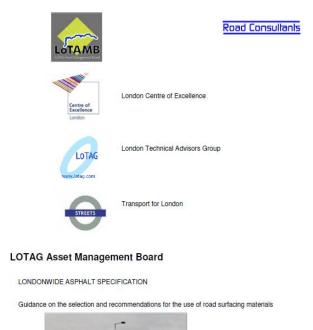


Asphalt is a generic name applied to all road and pavement materials produced by mixing bitumen with various aggregates. It is generally a black material that provides a level, non-slip surface for pedestrians and vehicles. The product offers good value for money, durability and waterproofing characteristics.



It is used in the Village because it is an existing distinctive part of the look and feel of the area.

Southwark has adopted the London wide asphalt specification 2016 promoted by LOTAG and TfL.





January 2016

Please consider the environment and do not print this document unless you really need to

Kerbs are granite and generally laid to present a 300mm wide face.



8.1	Village Area - Surfacing Materials Palette				
Heavy overrun footway	Bituminous mixture surface course	Local Acres diseases Local Color of Galance Local Co		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.	
Light overrun footway	Bituminous mixture surface course.	Section 1 Across the Committee of Committee	As above.	As above.	
Main footway/ footpath surface channel	Precast concrete paving slab, pimple finish, grey, steel reinforced to BS EN 1339:2003 600x600x70mm F-PC-B1(70)	Slabs need to be cut to widths as described in SSDM DS 130 and DS 118 to form surface channel detail.	Dimensions Deviations Upper arris Lower arris Colour Appearance Texture Breaking load Abrasion resistance Weathering Special requirements Manufacture method Dimensions	600mm wide x 600mm long x 70 or 72mm thick. BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L) BS EN 1339:2003 Square with no bevel or beading. BS EN 1339:2003 Square with no bevel or beading. Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency. No exposed aggregate in upper face. Pimple textured upper face BS EN 1339:2003 Class 140(14).≥ 20.65 KN BS EN 1339:2003 Class 3(D) Units to be steel reinforced to reduce fragmentation in case of failure. Units may be single layer or two-layer press with separate facing layer. 600mm wide x 600mm long x 70 or 72mm thick regular plan and section. However, upper face to have shallow 'V' profile with valley located down centre of unit. Depth of valley verses unit thickness at edges to be 15mm. Gradient of valley sides to be ≥ 1:20. Except for upper face and base, all other opposing faces to be planar to one another and all adjacent faces to be perpendicular to one another.	



	Precast concrete paving slab, pimple finish – V profile channel unit, grey Shallow V-	Dimensions	600mm wide x 600mm long x 70 or 72mm thick regular plan and section. However, upper face to have shallow 'V' profile with valley located down centre of unit. Depth of valley verses unit thickness at edges to be 15mm. Gradient of valley sides to be \geq 1:20. Except for upper face and base, all other opposing faces to be planar to one another and all adjacent faces to be perpendicular to one another.	
	F-PC-B1(X)	profile unit may be used to avoid	Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L)
		need for cutting	Upper arris	BS EN 1339:2003 Square with no bevel or rounding.
		slabs to width	Lower arris	BS EN 1339:2003 Square with no bevel or rounding.
			Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency.
			Appearance	No exposed aggregate in upper face.
			Texture	Pimple textured upper face.
			Breaking load	BS EN 1339:2003 Class 140(14).≥ 20.65 KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering	BS EN 1339:2003 Class 3(D)
			Special requirements	Units to be steel reinforced to reduce fragmentation in case of failure.
			Manufacture method	Units may be single layer or two-layer press with separate facing layer.
Trim	Granite cube (80x80x80).		Dimensions	80mm wide x 80mm long x 80mm thick. No undersized units to be included in delivery as units intended to be laid in stretcher or stack bond not an arc.
	Cropped to		Deviations	Deviations on face irregularity (BS EN 1342:2012): Class 2.
	sides. For laying in		Tolerance	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2.
	stretcher / stack bond. Silver		Colour	Silver Grey, Mid Grey, Dark Grey or Grey-Red.
			Appearance	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To
	Grey, Mid Grey,		r r · · · · · · ·	be a true granite, granitoid or commercial granite. In the case of Dark Grey
	Dark Grey or Grey-Red.			colour units may be an extrusive igneous rock basalt.
	B-NS-G2(80)- CR-STR		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative. Sides and base (BS EN 1342:2012): Hewn/cropped (generally only acceptable to areas not trafficked by pedestrians).
			Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm
			Weathering resistance	Freeze/thaw resistance, under normal conditions - mean compressive strength (BS EN 1342:2012): Results to be declared. Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV



CODIN ROY	9: November 2022		Density	Apparent density and open porosity - means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Street Furniture	Granite mosaic (50x50x50).		Dimensions	Work dimensions - nominal (BS EN 1342:2012): 50mm width x 50mm length x 50mm thick (5/5/5 designation).
Base	Silver Grey or Mid Grey. B-NS-G1(50)-		Deviations	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2. Deviations on face irregularity (BS EN 1342:2012): Class 2.
	CR		Density and porosity	Means (BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
			Colour	Silver Grey or Mid Grey.
			Appearance	Natural plutonic igneous rock sett in accordance with BS EN 1342:2012. To be a true granite, granitoid or commercial granite.
			Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative (generally only acceptable to areas not trafficked by pedestrians). Sides and base (BS EN 1342:2012): Hewn/cropped.
			Slip Resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
			Breaking load	Lower expected value (BS EN 1342:2012): ≥ 180 MPa.
			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm.
			Weathering	Mean compressive strength (BS EN 1342:2012): Results to be declared.
			resistance	Change between 0 cycles and 56 cycles to be ≤ 15%.
			Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
Vehicle crossing plateau surface Occasion al use	Bituminous mixture surface course.	And the second s	As above.	As above.
Vehicle crossing plateau surface Frequent use	Bituminous mixture surface course.	Learn Service Construction Le	As above.	As above.



Vehicle crossing ramp surface	Bituminous mixture surface course.	TATIONS TO THE CONTROL OF THE CONTR	As above.	As above.				
Main Carriage way surface	Bituminous mixture surface course.	Section 1.		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.				
	Imitation granite	>	Dimensions	150mm wide x 300mm long x 100mm thick.				
	sett precast concrete blocks. Anti-						Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm horizontal chamfer dimension. Chamfer to be flat as moulded then lightly abraded due to texturisation for upper face of unit.
	shift units. Mid		Lower arris	BS EN 1338:2003 Square				
	grey to BS EN		Facing layer thickness	BS EN 1338:2003 ≥ 6mm				
	1338:2003	To be laid in a	Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include				
	B-PC(AS)-G1b Mixed with Mixed with To be laid in a distributed mix of 80% G1b and 20% G1c in a stretcher bond perpendicular to the dominant c/way edge.	distributed mix of 80% G1b and 20% G1c in a stretcher bond		substantial nibs located at regular ≤ 42mm centres so as to interlock between nibs of opposing units. Each nib to protrude by 3mm from side of unit and be approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 - 15mm recessed beneath upper face. Method of interlock to be such that individual units may still be removed by vertical lifting following installation.				
		Colour	Facing layer overall colour when viewed from a distance of 2m is mid grey as Munsell colour (neutral scale) N 6.0 /_30.0% Grey, black and white grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey.					
			Density of facing	BS EN 1338:2003.≥ 375kg/m ³				
			Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing layer to be ≥ 50% exposed stent (or other secondary granite aggregates. Facing layer may also include blast furnace slag or recycled aggregates in imitation of natural stone granite. Monochrome salt and pepper appearance. Crushed granite and other face mix materials to be 1 -3mm in diameter with none exceeding 5mm. Even overall distribution of different grain types. Close distribution of matic granules with typical spacing of 0.4 - 0.75mm between matic granules > 1mm in diameter. Typical spacing between glinting mica imitation granules not to exceed 10mm between granules > 0.5mm diameter.				



OODW RCV S	: November 2022		Water absorption	BS EN 1338:2003 Class 2(B)
			•	\
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.
	Imitation granite	> = = = = = = = = = = = = = = = = = = =	Traffic bonding	Side face nib and base face treatments to achieve sufficient frictional interlock
	sett precast		requirement	between units and laying course to permit laying as BS 7533-1:2001 in sites
	concrete		-	experiencing 3 million design life standard axles or greater in stretcher bond
	blocks. Anti-			and without intermediary restraints.
	shift units. Dark		Dimensions	150mm wide x 300mm long x 100mm thick.
	grey to BS EN		Upper arris	BS EN 1338:2003 Chamfered 2mm vertical chamfer dimension, 4mm
	1338:2003		oppor anno	horizontal chamfer dimension. Chamfer to be flat as moulded then lightly
	B-PC(AS)-G1c	To be laid in a		abraded due to texturisation for upper face of unit.
	` ,	distributed mix	Lower arris	BS EN 1338:2003 Square
		of 80% G1b and	Facing layer thickness	BS EN 1338:2003 ≥ 6mm
		20% G1c in a	Spacer nibs	To be as SF-Kooperation VS units or similar approved. Side faces to include
		stretcher bond	Spacer fillus	substantial nibs located at regular ≤ 42mm centres so as to interlock between
		perpendicular to		nibs of opposing units. Each nib to protrude by 3mm from side of unit and be
		the dominant		approximately 13mm wide with chamfer to top and sides. Top of nibs to be 5 -
		c/way edge.		15mm recessed beneath upper face. Method of interlock to be such that
				individual units may still be removed by vertical lifting following installation.
			Colour	
			Coloui	Facing layer overall colour when viewed from a distance of 2m is dark grey as Munsell colour (neutral scale) N 5 /_19.8%R. Grey, black and white grains to
				stand out from back ground colour. Bed face and sides beneath facing layer:
			Danaity of facing	generic grey.
			Density of facing	BS EN 1338:2003.≥ 375kg/m ³
			Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
				layer to be \geq 50% exposed stent (or other secondary granite aggregates.
				Facing layer may also include blast furnace slag or recycled aggregates in
				imitation of natural stone granite. Monochrome salt and pepper appearance.
				Crushed granite and other face mix materials to be 1 -3mm in diameter with
				none exceeding 5mm. Even overall distribution of different grain types. Close
				distribution of matic granules with typical spacing of 0.4 - 0.75mm between
				matic granules > 1mm in diameter. Typical spacing between glinting mica
				imitation granules not to exceed 10mm between granules > 0.5mm diameter.
			Water absorption	BS EN 1338:2003 Class 2(B)
			Abrasion resistance	BS EN 1338:2003 Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)
		l .		



Parking Bay Surface	Bituminous mixture surface course	THE ADMINISTRATION OF		See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
	Imitation granite sett precast concrete blocks. Anti-shift units. Silver, Mid and Dark grey to BS EN 1338:2003	B-PC(AS)-G1c	As above.	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in a stretcher Bond running perpendicular to the dominant carriageway edge.
	Imitation Granite	Manual State of the State of th	Dimensions	Mix of 208 and 173mm long x 173mm long x 80mm thick.
	Setts precast		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to
	concrete blocks			upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical.
	Infiltration joint		Lower arris	BS EN 1338:2003 Square
	units. Silver		Facing layer	BS EN 1338:2003 ≥ 6mm
	grey.		Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
	208/173x173x60		·	of jointing material. Extent of nib protrusion ≥ 6mm.
	B-PC(W80)-G1a		Colour	Facing layer overall colour when viewed from a distance of 2m is silver grey
	To be laid in an evenly			as Munsell colour (neutral scale) N 7.25/_46.8%R. Grey, black and white and glassy aggregate grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey.
	distributed mix	Only likely as a	Density of facing	BS EN 1338:2003.≥ 375kg/m ³
	of 60% G1a,	no dig pavement	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
	20% G1b and 20% G1c in a	construction	TORIGIO	layer to be ≥ 50% exposed stent (or other secondary granite aggregates.
	stretcher bond	over rooting		Facing layer may also include blast furnace slag or recycled aggregates in
	running	zones of		imitation of natural stone granite. Monochrome salt and pepper appearance.
	perpendicular to	existing trees.		Crushed granite and other face mix materials to be 1 -3mm in diameter with
	the dominant			none exceeding 5mm. Even overall distribution of different grain types. Close
	carriageway			distribution of matic granules with typical spacing of 0.4 - 0.75mm between
	edge. Other			matic granules > 1mm in diameter. Typical spacing between glinting mica
	colour mixes			imitation granules not to exceed 10mm between granules > 0.5mm diameter.
	may be or		Water absorption	BS EN 1338:2003 Class 2(B)
	instructed by		Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
			Freeze/thaw	BS EN 1338:2003 Class 3(D)



	Approving		Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
	Officers.		manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.
	Imitation Granite		Dimensions	Mix of 208 and 173mm long x 173mm long x 80mm thick.
	Setts precast		Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to
	concrete blocks			upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical
	Infiltration joint		Lower arris	BS EN 1338:2003 Square
	units. Mid grey.		Facing layer	BS EN 1338:2003 ≥ 6mm
	208/173x173x60	<u> </u>	Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
	B-PC(W80)-G1b		•	of jointing material. Extent of nib protrusion ≥ 6mm.
	To be laid in an		Colour	Facing layer overall colour when viewed from a distance of 2m is mid grey as
	evenly			Munsell colour (neutral scale) N 6/_30.0%R. Grey, black and white and
	distributed mix	Only likely as a		glassy aggregate grains to stand out from back ground colour. Bed face and
	of 60% G1a,	no dig pavement		sides beneath facing layer: generic grey.
	20% G1b and	construction	Density of facing	BS EN 1338:2003.≥ 375kg/m ³
	20% G1c in a	over rooting	Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
	stretcher bond	zones of		layer to be ≥ 50% exposed stent (or other secondary granite aggregates.
	running	existing trees.		Facing layer may also include blast furnace slag or recycled aggregates in
	perpendicular to	Ü		imitation of natural stone granite. Monochrome salt and pepper appearance.
	the dominant			Crushed granite and other face mix materials to be 1 -3mm in diameter with
	carriageway			none exceeding 5mm. Even overall distribution of different grain types. Close
	edge. Other			distribution of matic granules with typical spacing of 0.4 - 0.75mm between
	colour mixes			matic granules > 1mm in diameter. Typical spacing between glinting mica
	may be or		144 d 1 d	imitation granules not to exceed 10mm between granules > 0.5mm diameter.
	instructed by		Water absorption	BS EN 1338:2003 Class 2(B)
	Approving Officers.		Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
	Officers.	-	Freeze/thaw	BS EN 1338:2003 Class 3(D)
			Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
-	1 ' ' 0 '	0 1 111 1	manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.
	Imitation Granite	Only likely as a	Dimensions	Mix of 208 and 173mm long x 173mm long x 80mm thick.
	Setts precast	crete blocks construction	Upper arris	BS EN 1338:2003 Moulded flat chamfer subsequently lightly abraded due to
				upper face texturisation ≤ 4mm horizontal ≤ 2mm vertical.
	units. Dark grey. zone:	zones of	Lower arris	BS EN 1338:2003 Square
		existing trees.	Facing layer	BS EN 1338:2003 ≥ 6mm
		existing trees.	Spacer nibs	Specialist nibs to side to promote ingress of water whilst preventing migration
	_ : 5(1100) 5 10			of jointing material. Extent of nib protrusion ≥ 6mm.
			Colour	Facing layer overall colour when viewed from a distance of 2m is dark grey as
				Munsell colour (neutral scale) N 5/_19.8%R. Grey, black and white and

SSDM Rev	9: November 2022			southwark.goulk
	To be laid in an evenly			glassy aggregate grains to stand out from back ground colour. Bed face and sides beneath facing layer: generic grey.
	distributed mix		Density of facing	BS EN 1338:2003.≥ 375kg/m³
	of 60% G1a,		Texture	Flat to all faces (except nibs). Facing layer to be lightly shot blasted. Facing
	20% G1b and			layer to be ≥ 50% exposed stent (or other secondary granite aggregates.
	20% G1c in a			Facing layer may also include blast furnace slag or recycled aggregates in
	stretcher bond			imitation of natural stone granite. Monochrome salt and pepper appearance.
	running			Crushed granite and other face mix materials to be 1 -3mm in diameter with
	perpendicular to			none exceeding 5mm. Even overall distribution of different grain types. Close
	the dominant			distribution of matic granules with typical spacing of 0.4 - 0.75mm between
	carriageway			matic granules > 1mm in diameter. Typical spacing between glinting mica
	edge. Other colour mixes			imitation granules not to exceed 10mm between granules > 0.5mm diameter.
	may be or		Water absorption	BS EN 1338:2003 Class 2(B)
	instructed by		Abrasion resistance	BS EN 1338:2003 Class 3(H) or Class 4(I)
	Approving		Freeze/thaw	BS EN 1338:2003 Class 3(D)
	Officers.		Method of	Two-layer press with separate facing layer. Units to be vapour cured for a
			manufacture	minimum of 12 hours to reduce risk of efflorescence before packing.
Raised	Bituminous	Lotans		See SSDM Standard DS 601 for details of permitted bituminous mixture
Table	mixture surface	London-Carden of Excellence		surface materials for different NRSWA road categories and trafficking
Plateau	course	Lariton Technical Advisors Group		circumstances. See also the London Asphalt Specification for details of
Surface		Tompor for Lambin		acceptable proprietary mixes for use across London.
and		LOTAG Asset Management Board		
Traffic		Such or at the section and recommendations for the use of road surbany nations.		
Carpet Surface				
Surface		anuary gene		
	Imitation granite	A first total is more existent of the most and delivers common exist set in	As above.	To be laid in an evenly distributed mix of 20% G1a, 60% G1b and 20% G1c in
	sett precast		710 00000.	a stretcher Bond running perpendicular to the dominant carriageway edge.
	concrete blocks.			a chicago.
	Anti-shift units.			
	Silver, Mid and			
	Dark grey to BS	B-PC(AS)-G1a		
	EN 4220,0002	B-PC(AS)-G1b		
	EN 1338:2003	` ,		
	EN 1338:2003	B-PC(AS)-G1c		



Raised Table Ramp Surface/ Traffic Carpet Ramp Surface	Bituminous mixture surface course	LOTAG Asset Management Board LOTAG	As above.	See SSDM Standard DS 601 for details of permitted bituminous mixture surface materials for different NRSWA road categories and trafficking circumstances. See also the London Asphalt Specification for details of acceptable proprietary mixes for use across London.
Traffic Carpet	Granite cube (80x80x80).		Dimensions	80mm wide x 80mm long x 80mm thick. No undersized units to be included in delivery as units intended to be laid in stretcher or stack bond not an arc.
Plateau	Cropped to		Deviations	Deviations on face irregularity (BS EN 1342:2012): Class 2.
Reserve Materials	sides. For laying in stretcher /		Tolerance	Tolerances on nominal plan dimensions and thickness (BS EN 1342:2012): Class 2. Tolerances on undercut of sides (BS EN 1342:2012): Class 2
	stack bond.		Colour	Silver Grey as oil stains should not be as conspicuous on small units.
	Silver Grey, Mid Grey, Dark Grey or Grey-Red.		Appearance	Natural intrusive igneous rock sett in accordance with BS EN 1342:2012. To be a true granite, granitoid or commercial granite. In the case of Dark Grey colour units may be an extrusive igneous rock basalt.
	B-NS-G2(80)- CR-STR		Texture	Upper face (BS EN 1342:2012): Coarse textured as standard (diamond sawn then bush hammered/fine picked). Where required by the Employer may be hewn/cropped as an alternative. Sides and base (BS EN 1342:2012): Hewn/cropped (generally only acceptable to areas not trafficked by pedestrians).
			Breaking load	Compressive - lower expected value (BS EN 1342:2012): ≥ 180 MPa.
			Abrasion resistance	Higher expected value (BS EN 1342:2012): ≤ 23mm
			Weathering	Mean compressive strength (BS EN 1342:2012): Results to be declared.
			resistance	Change between 0 cycles and 56 cycles to be ≤ 15%.
			Slip resistance	Wet mean (BS EN 1342:2012): ≥ 70 USRV
			Density and porosity	(BS EN 1342:2012): ≥ 2600 kg/m3 / ≤ 1.25%
	_		Water absorption	Higher expected value (BS EN 1342:2012): ≤ 0.35%.
	Granite cube 80x80x80mm grey to BS EN 1342:2012 B-NS-G2(80)-	For laying in	Dimensions	80mm wide x 80mm long x 80mm thick (8/8/8 designation). For laying in arcs. Undersize units: Units to be produced for laying in arc patterns with 5% of units included in delivery having lengths and widths smaller than the permitted minimums after applying permitted dimensional tolerances (e.g. smaller than 80mm).
	CR/ARC	arcs.	Tolerances	Normal plan dimensions and thickness, undercut of sides and deviations on face irregularity to BS EN 1342:2012 Class 2.
			Colour	Silver grey, mid grey, dark grey or grey-red.

John Have	5. November 2022		Texture	Coarse textured as standard, (diamond sawn then bush hammered/fine picked).
			Water absorption	Higher expected value BS EN 1342:2012 ≤ 0.35%
			Abrasion resistance	Higher expected value BS EN 1342:2012 ≤ 23mm
			Freeze/thaw resistance	Under normal conditions mean compressive strength (BS EN 1342:2012) results to be declared, Change between 0 cycles and 56 cycles to be ≤ 15%.
			Density/porosity	BS EN 1342:2012 ≥ 2500kg/m³ / ≤ 1.25%
			Breaking strength	Lower expected value BS EN 1342:2012 ≥ 180 MPa
Tactile	Blister tactile	00000	Dimensions	400mm wide x 400mm long x 65mm thick (excluding profile features).
surfacing	precast		Deviations	BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3.
Controlled	concrete paving		Upper arris	BS EN 1339:2003 Square with no bevel or rounding.
crossing	slab		Lower arris	BS EN 1339:2003 Square with no bevel or rounding.
	Dark grey		Colour	Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency.
	400x400x65mm T(B)-PC2		Appearance	Smooth with no exposed aggregate in upper face.
	1(B)-PC2	See SSDM DS	Profile Feature	DD/CEN/TS 15209:2008 Type B1.
		207 about the	Spacer nibs to sides	Optional. Where provided ≤ 1.75mm
		use of tactile pavers.	Breaking load	BS EN 1339:2003 Class 140(14).≥ 17.7KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering	BS EN 1339:2003 Class 3(D)
			Manufacture method	Units may be single layer or two-layer press with separate facing layer.
Tactile	Blister tactile	Hill Harry and the	Dimensions	400mm wide x 400mm long x 65mm thick (excluding profile features).
surfacing	precast		Deviations	BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3.
Un -	concrete paving		Upper arris	BS EN 1339:2003 Square with no bevel or rounding.
Controlled	slab Buff colour	See SSDM DS	Lower arris	BS EN 1339:2003 Square with no bevel or rounding.
crossing	400x400x65mm	207 about the	Colour	Buff upper face.
	T(B)-PC2	use of tactile	Appearance	Smooth with no exposed aggregate in upper face.
		pavers.	Profile Feature	DD/CEN/TS 15209:2008 Type B1.
			Spacer nibs to sides	Optional. Where provided ≤ 1.75mm
			Breaking load	BS EN 1339:2003 Class 140(14).≥ 17.7KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering	BS EN 1339:2003 Class 3(D)
			Manufacture method	Units may be single layer or two-layer press with separate facing layer.



Tactile	Corduroy tactile	400	Dimensions	400mm wide x 400mm long x 65mm thick (excluding profile features).
surface	precast		Deviations	BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3.
Corduroy	concrete paving		Upper arris	BS EN 1339:2003 Square with no bevel or rounding.
	slab	40	Lower arris	BS EN 1339:2003 Square with no bevel or rounding.
	Dark grey		Colour	Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency.
	400x400x65mm	50 20 6±0.5 15	Appearance	Smooth with no exposed aggregate in upper face.
	T(C)-PC2		Profile Feature	DD/CEN/TS 15209:2008 Type R1
			Spacer nibs to sides	Optional. Where provided ≤ 1.75mm
			Breaking load	BS EN 1339:2003 Class 140(14).≥ 17.7KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering	BS EN 1339:2003 Class 3(D)
			Manufacture method	Units may be single layer or two-layer press with separate facing layer.
Tactile	Ladder/tram	"Ladder" pattern on the footway or footpath the cycle track	Deviations	BS EN 1339:2003 Table 1, Class 3 and Table 2, Class 3.
Surface	line tactile		Upper arris	BS EN 1339:2003 Square with no bevel or rounding.
Ladder /	granite natural	35 30 70	Lower arris	BS EN 1339:2003 Square with no bevel or rounding.
Tramline	stone paving	35 30 70	Colour	Dark grey upper face as Munsell colour 2.5Y 4/1 with no inconsistency.
	slab (80mm		Appearance	Smooth with no exposed aggregate in upper face.
	thick). Silver	400	Profile Feature	DD/CEN/TS 15209:2008 Type B1.
	grey. T(L)-NS/G(80)		Spacer nibs to sides	Optional. Where provided ≤ 1.75mm
	1(2) 110/0(00)		Breaking load	BS EN 1339:2003 Class 140(14).≥ 17.7KN
		400	Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering	BS EN 1339:2003 Class 3(D)
			Manufacture method	Units may be single layer or two-layer press with separate facing layer.
Reserve	Precast	77	Dimensions	600mm wide x 600mm long x 70 or 72mm thick.
Footway	concrete paving		Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L).
Materials	slab, pimple		Upper arris	BS EN 1339:2003 Square with no bevel or beading.
	finish, grey,		Lower arris	BS EN 1339:2003 Square with no bevel or beading.
	steel reinforced		Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency.
	to BS EN 1339:2003		Appearance	No exposed aggregate in upper face.
	600x600x70mm		Texture	Pimple textured upper face
	F-PC-B1(70)		Breaking load	BS EN 1339:2003 Class 140(14).≥ 20.65 KN
	()		Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering	BS EN 1339:2003 Class 3(D)
			Special requirements	Units to be steel reinforced to reduce fragmentation in case of failure.
			Manufacture method	Units may be single layer or two-layer press with separate facing layer.



	Precast	THE PERSON NAMED IN	Dimensions	600mm wide x 600mm long x 70mm thick.
	concrete paving		Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L).
	slab, pimple		Upper arris	BS EN 1339:2003 Square with no bevel or beading.
	finish, grey,		Lower arris	BS EN 1339:2003 Square with no bevel or beading.
	fibre reinforced	1/2	Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency.
	to BS EN	4	Appearance	No exposed aggregate in upper face.
	1339:2003		Texture	Pimple textured upper face
	600x600x70mm		Breaking load	BS EN 1339:2003 Class 140(14).≥ 15.1 KN
			Abrasion resistance	BS EN 1339:2003 Class 4(I)
			Weathering	BS EN 1339:2003 Class 3(D)
			Special requirements	Units to be fibre reinforced to reduce fragmentation in case of failure.
			Manufacture method	Units may be single layer or two-layer press with separate facing layer.
	F-PC-B2(70)		Dimensions	600mm wide x 600mm long x 63mm thick.
	Precast	T	Deviations	BS EN 1339:2003 Table 1, Class 3(R) and Table 2, Class 3(L).
	concrete paving		Upper arris	BS EN 1339:2003 Square with no bevel or beading.
	slab, pimple	1	Lower arris	BS EN 1339:2003 Square with no bevel or beading.
	finish, grey, to BS EN		Colour	Light grey upper face as Munsell colour SY 7 5/0.5 with no inconsistency.
	1339:2003		Appearance	No exposed aggregate in upper face.
	600x600x63mm		Texture	Pimple textured upper face
	F-PC-B1(63)	For use in areas	Breaking load	BS EN 1339:2003 Class 140(14).≥ 15.1 KN
	1 1 0 1 1 (00)	of light over-run	Abrasion resistance	BS EN 1339:2003 Class 4(I)
		only.	Weathering	BS EN 1339:2003 Class 3(D)
			Special requirements	Units to be fibre reinforced to reduce fragmentation in case of failure.
			Manufacture method	Units may be single layer or two-layer press with separate facing layer.
Unbou		708	Particle size	0 – 4mm
beddir			Oven dried density	>2000kg/m ³
sand	unbound		Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass).
	footway		AIV	Aggregate Impact Value < 30%
	concrete stabs,		Abrasion resistance	Los Angeles Value <30% loss
	natural stone flags and concrete blocks	Primarily sea	Flakiness Value	< 30
		dredged coarse	Elongation Index	< 30
		sand or washed	Fines Value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	or clay pavers L-SS1	grit sand with no		
	L-001	organic matter		
		to BS EN		
		12620:2013		



SSDIVI Rev	Quartz arenite sand bedding for unbound carriageway concrete blocks or clay pavers L-QZ4	Description Particle size Oven dried density Sulphur Content AIV Abrasion resistance Flakiness Value	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation. < 1 – 2% fines. 1 – 4mm >2000kg/m³ < 1% by mass. (Acid soluble sulphur content <0.8% by mass). Aggregate Impact Value < 30% Los Angeles Value <30% loss < 30	
	Quartz arenite		Elongation Index Fines Value Description	< 30 f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve. Almost pure quartz sand composed of > 90% quartz, chert or quartose rock
	sand bedding for unbound permeable carriageway		Particle size Oven dried density Sulphur Content	fragments. Very hard particles to prevent fragmentation. 2 – 6mm >2000kg/m³ < 1% by mass. (Acid soluble sulphur content <0.8% by mass).
	concrete blocks or clay pavers L-QZ2/6	To be laid 50mm	AIV Abrasion resistance Flakiness Value	Aggregate Impact Value < 30% Los Angeles Value <30% loss < 30
		thick	Elongation Index Fines Value	< 30 f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.
Unbound jointing sand	Sharp sand jointing sand for unbound	Primarily sea dredged coarse sand or washed	Particle size Oven dried density Sulphur Content	0 – 4mm >2000kg/m³ < 1% by mass. (Acid soluble sulphur content <0.8% by mass).
	footway concrete stabs, natural stone		AIV Abrasion resistance	Aggregate Impact Value < 30% Los Angeles Value <30% loss
	flags and concrete blocks		Flakiness Value Elongation Index Fines Value	< 30 < 30
	or clay pavers L-SS1		Fines value	f _{1.0} as BS EN 12620, less than 1% passing 0.063mm sieve.
	Stabilised jointing sand for unbound footway concrete stabs, natural stone	For use where there might be cleansing issues (vacuum cleaners	2 options	Sharp sand as above with a water miscible stabilising jointing liquid. A dry sharp sand and cement mix, brushed into the joints and then moistened with water.



SSDIM KEV	flags and concrete blocks or clay pavers L-X1 Stabilised jointing gravel for unbound footway concrete stabs, natural stone flags & concrete blocks or clay pavers	sucking out jointing sand). For use with wider joints.	options	0 - 8mm gravel with a water miscible stabilising jointing liquid. A dry 0 - 8mm gravel and cement mix, brushed into the joints and then moistened with water.
Bedding mortar	L-X2 Bedding mortar for bound construction L-MH1	BS 7533- 4/2006, Table 4, clause 5.4.4.1	Minimum Flexural strength Minimum Compressive Strength Aggregate size Chloride Ion content Acid soluble sulphate Cement Water cement ratio Water sulphate content Temperature Water absorption	30 MPa
	Bedding mortar for bound construction L-MH2	BS 7533-10 /2004 Type B	Minimum Compressive strength Aggregate size Chloride Ion content Acid soluble sulphate Cement Water cement ratio	



			Water sulphate	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
			content	waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
	Bedding mortar	Pering stores/sitts/	Minimum	40 N/mm ²
	for bound	Triporeira monte: - Substrate	Compressive	
	construction		strength	
	L-MH3	BS 7533-10	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
		/2004 Type A	Chloride Ion content	≤ 0.1% of mass
		,2001.1907.	Acid soluble	(SO ₄) ≤ 5%of mass of cement in mix
			sulphate	
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
			content	waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
	Rapid set	Paving stones letts (flags to b	Curing time	1 hour to reach structural strength 40 N/mm ²
	bedding mortar	1-pareira estia.	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	for bound		Chloride Ion content	≤ 0.1% of mass
	construction		Acid soluble	(SO ₄) ≤ 5%of mass of cement in mix
	L-MHX		sulphate	· ·
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
			content	waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Weak bedding	For use where	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
	mortar for	there is no	Chloride Ion content	≤ 0.1% of mass
	bound	vehicle overrun.	Acid soluble	$(SO_4) \le 5\%$ of mass of cement in mix.
	construction L-MWK12	Plastic Mortar:	sulphate	
		Class M12 to	Cement	Portland Cement CEM1 complying with BSEN 197-1
		BS EN 998-2:	Water cement ratio	≤ 0.4
		2005 (e.g. a 1:3 cement:sand	Water sulphate	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal
		mix)	content	waters), to BS EN 1008.
		11117)	Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.



Bound jointing mortar	Jointing mortar for bound construction	BS 7533-10 /2004 5 -8mm joint	Minimum Compressive Strength	50 N/mm²
	J-MH1	gap	Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass
			Acid soluble	$(SO_4) \le 5\%$ of mass of cement in mix.
			sulphate	
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
			Water absorption	Of mixed mortar ≤ 0.4%
	Jointing mortar	BS 7533-10	Minimum	25 N/mm ²
	for bound	/2004	Compressive	
	construction J-MH2		strength	Maximum aggregate size in bedding mortar: 2.8mm
			Aggregate size Chloride Ion content	Solution aggregate size in bedding monar, z.omin ≤ 0.1% of mass
			Acid soluble	
			sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO ₄) ≤ 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.
	Jointing mortar for bound construction J-MH3	BS 7533-10 /2004	Minimum Compressive strength	40 N/mm ²
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm
			Chloride Ion content	≤ 0.1% of mass
			Acid soluble sulphate	$(SO_4) \le 5\%$ of mass of cement in mix
			Cement	Portland Cement CEM1 complying with BSEN 197-1
			Water cement ratio	≤ 0.4
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.



SSDM Rev	SSDM Rev 9: November 2022						
	Rapid set jointing mortar for bound	BS 7533-10 /2004	Curing time	1 hour to reach structural strength 40 N/mm ²			
			Aggregate size	Maximum aggregate size in bedding mortar: 2.8mm			
			Chloride Ion content	≤ 0.1% of mass			
	construction		Acid soluble	(SO ₄) ≤ 5%of mass of cement in mix			
	J-MHX		sulphate	•			
			Cement	Portland Cement CEM1 complying with BSEN 197-1			
			Water cement ratio	≤ 0.4			
			Water sulphate content	(As SO_4) \leq 1.4gramme/litre. Water from water company (not sea or tidal waters), to BS EN 1008.			
			Temperature	Temperature of mixed mortar: 5 to 25 degrees centigrade.			
			Water absorption	Of mixed mortar ≤ 0.4%			
Permeabl e Jointing	Quartz Arenite jointing sand for permeable joints J-QZ2/4		Description	Almost pure quartz sand composed of > 90% quartz, chert or quartose rock fragments. Very hard particles to prevent fragmentation.			
Sand			Particle size	2 – 4mm			
			Oven dried density	>2000kg/m ³			
			Sulphur Content	< 1% by mass. (Acid soluble sulphur content <0.8% by mass)			
			AIV	Aggregate Impact Value < 30%			
			Abrasion resistance	Los Angeles Value <30% loss			
			Flakiness Value	< 30			
			Elongation Index	< 30			
			Fines Value	f _{1.0} as BS EN 12620, less than 1- 2% passing 0.063mm sieve.			



Appendix 1 - Regulating Plan (see website https://geo.southwark.gov.uk/connect/analyst/mobile/#/main?mapcfg=Southwark%20Streetscape%20Design%20Manual%20-%20SSDM)

