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SPECIFICATION FOR SLAB/BRICK/SETT/COBBLE PAVINGS

SECTION Q25/ Q24 INTERLOCKING BRICK/ BLOCK ROADS/ PAVINGS

To be read with Preliminaries/General conditions.

GENERALLY

120 UN-BOUND SUB BASE DETAIL

(To be considered in event of services etc. requiring access)

Granular sub-base: Highways Agency Specification for Highway Works Type 1.

- Thickness: 120mm to 150mm.

Base/ bedding: 3mm bedding grit or to engineers detail

- Thickness: 50mm.

Paving units: As detailed below

120 BOUND SUB BASE DETAIL

(Pedestrian, Vehicular traffic and Services allowed for)

CBM sub-base: Highways Agency Specification for Highway Works.

- Thickness: 120mm to 150mm reinforced concrete slab

Base/ bedding: BS 7533 recommended pure hydraulic bedding mortar which must include up to 70% crushed igneous rock, free of polymer & resin. Flexural strength 7N/mm²

- Thickness: 40mm. (can be 30mm to 70mm depending on engineer detail)

Refer to Alan Smyth Consultancy 00353 86 1730156

Design Standard: BS 7533-1:2001 (Heavy Traffic) or BS 7533-2:2001 (Light Traffic)

Laying Standard: BS 7533-3:2005

390 UNBOUND PAVING JOINTING MATERIAL

Standard: To BS 7533-4, Kiln dried jointing material brushed to joints of paving.

BOUND PAVING JOINTING MATERIAL

Hydraulic naturally free flowing grout mortar, free of polymer and resin activated by water and squeezed to joints of paving. Resistant to frost and de-icing salts.

Product Information

Blended layers of multiple colour shades of natural granite particles, Cornish sand, white cement and UV resistant colour pigments*. The 3 stage high pressure water etched process which is unique to AG exposes the embedded aggregates to reveal a 90%+ natural granite high performance surface which is colourfast, durable and will not peel or delaminate. Plaza is a textured surface which resembles the natural granite bush hammered and pineapple finish. Plaza outperforms all others as its unique water etched process allows the surface finish to be durable. The colour retention is achieved by the controlled mix of natural granite grain sizes and colours, AG can offer Plaza in multiple shades and colours to meet any design specification

Blocks: BS EN 1338:2003
Laying Standard: BS 7533-3:2005

Design Standard: BS 7533-1:2001 (Heavy Traffic) or BS 7533-2:2001 (Light Traffic)

Block Manufacturer: Acheson & Glover, 64 Old Moy Road, Dungannon, Co.Tyrone, BT71 6PU. Tel: 028 8778 4208. Fax: 028 8778 4805. Email: solutions@acheson-glover.com Web: www.acheson-glover.com



Product reference: Plaza

Colour: Silver / Slate / Sandstone/ Graphite/ Cream/ Arno Green/
 Pearl Blue/ Cashel Red/ Natural

Surface: 3 Stage Water Etched Textured Aggregate

Nominal Sizes:	600 x 200 x 80mm	300 x 150 x 60mm
	400 x 400 x 80mm	200 x 150 x 60mm
	400 x 200 x 80mm	150 x 150 x 60mm
	200 x 200 x 80mm	150 x 100 x 60mm
	200 x 100 x 80mm	200 x 100 x 60mm

Jointing Material: Silver granite or Natural sand for colours, buff sand for Sandstone & Cream colours.

Manufacturing & Performance

Manufacturer. AG Ltd – www.acheson-glover.com

Product Type. Concrete Paving Block

Manufactured to. BS EN 1338:2003

Surface Layer. Durable high performance hard wearing easy maintenance layer of minimum 4mm and >350kgs/m² cement

Granite Content. Not less than 90% of granite aggregate in surface layer with Water-Etching process

Efflorescence. Minimum 12 hour vapour curing too significantly reduce the risk of Efflorescence

Strength. >3.6MPa

Slip/ Skid Resistance. Extremely Low (>75 USRV)

Spacer. Unique spacer design to increase interlocking shift protection

LRV Rating. AG Technical Dept can provide colours that meet regulation

Installation. BS 7533-3:2005

Application. These products are suitable for public realm pedestrian and traffic use. With correct technical guidance on sub base design occasional heavy duty vehicle access can be considered. The latest British Standard data on sub base design should be consulted prior to installation.

Referencing Inter-pave for paving unit selection, the 60mm Plaza units are suitable for use in what Inter-pave call a 'Vehicular 3' environment.

They define a 'Vehicular 3' environment as;

- Footways where cars and occasional commercial vehicles run over;
- Unprotected pedestrian precincts with about 25 or fewer commercial vehicles per day
- Fire tender access

Units to be laid in an unbound application as stated above.

Sustainability

Energy Used. 100% renewable

Water Used. 100% Harvested

Carbon Footprint

Value. 32 to 34kg @ unit of Co2/m2

Recyclable. 100% of this product is recyclable

Recycled Content. Not less than 60% recycled material

Manufacturing Location. Located in UK using locally sourced material

BREEM Rating. A+B, in accordance with the Green Guide to Specification, 4th Edition 2009. A full A rating can be secured using a recycled sub base design as per guidance from the Green Guide to Specification 4th Edition 2009. www.bre.co.uk

Ancillary products:

Xflo permeable paving blocks 255x170 & 170x170 (80mm thick) are also available in finish and colours – specify in clause Q24 115.

A range of textured Natural Aggregate Kerbs are available that compliment - specify in clause Q10 110.

Bedding Information

640/ 660 - Spread and level 30-50mm of bedding material and compact using a vibrating plate or roller, then spread and level approx. 15mm of loose bedding material.

Or : Spread and level 65-70mm of bedding material and compact using a vibrator plate then loosen the top 10mm with a rake and re-level.

Guidance should be sought from a suitable qualified person prior to installation on sub base design

For further advice or design specification advice please contact

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