

G-EU-001; Silver Grey Granite



Reference Standard :

- ⇒EN 1341 Slabs of Natural Stone for external paving
- ⇒EN 1342 Setts of Natural Stone for external paving
- ⇒EN 1343 Kerbs of Natural Stone for external use

NB -The technical values specified are values according to the relevant testing standards. Due to natural variations of the stone, material deviations from the specified values can occur.



STONEP/VE

AN OUTHAUS GROUP COMPANY

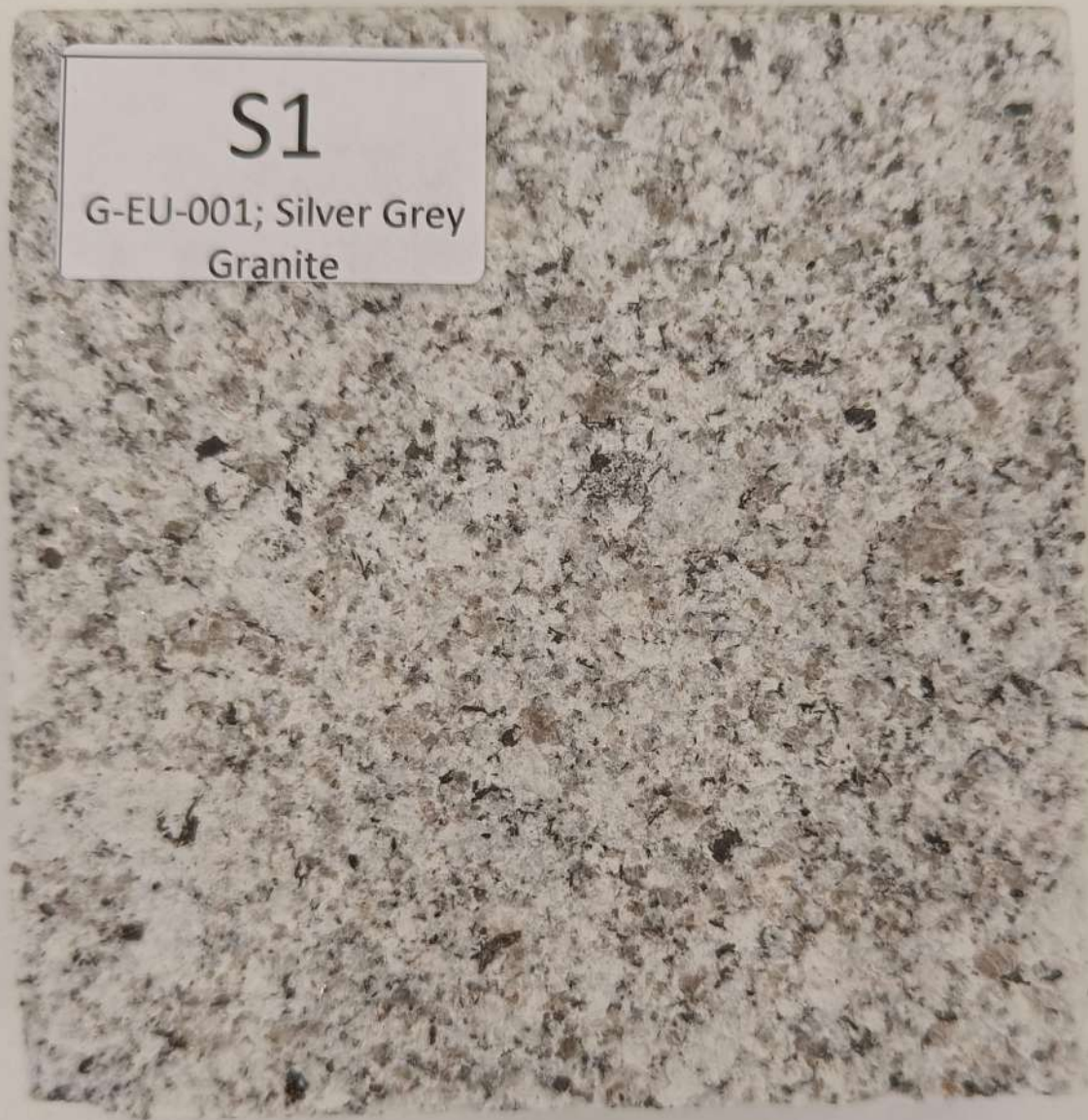
Characteristics	Test Method	Avg. Value
Apparent Density	EN 1936: 2006	2700Kg/M3
Water Absorption	EN 13755: 2008	0.1%
Flexural Strength	EN 12372: 2006	15.5Mpa
Compressive Strength	EN 1926: 2006	177Mpa
Abrasion Resistance	EN 14157: 2004	16.5mm
Slip Resistance (Dry)	EN 14231: 2003	68 URSV
Slip Resistance (Wet)	EN 14231: 2003	65 URSV
Open Porosity	EN 1936: 2006	0.4%
Petrographic description	EN 12407: 2007	Medium to fine grained, homogeneous, biotite, blue-gray granite, showing some sparse feldspar crystals
Country of Origin		Portugal



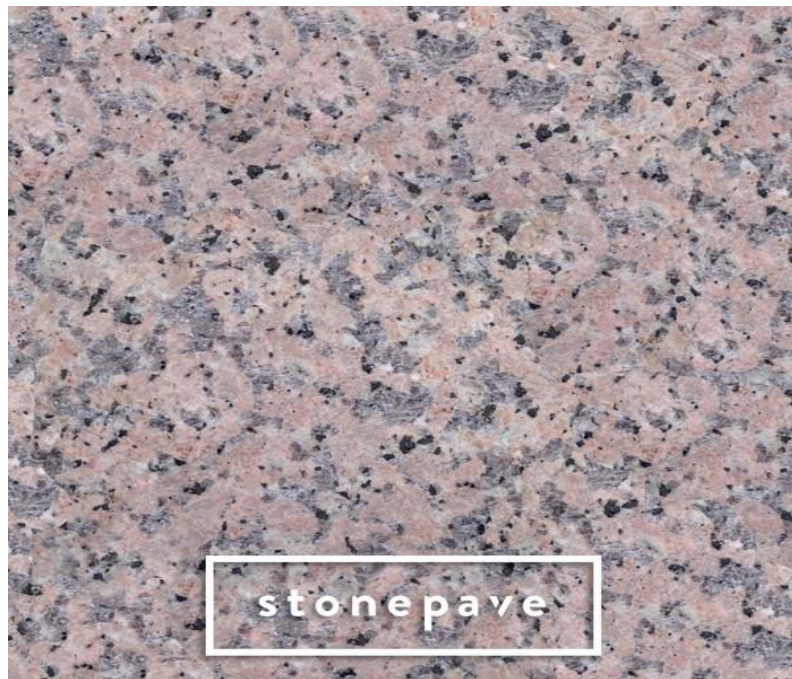
Stonepave Ltd.
 Hard Landscaping specialists
 UK: 01 455 2222 88
 Ireland: 01 844 1200
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S1

G-EU-001; Silver Grey
Granite



G-EU-006; Pink Granite



Reference Standard :

- ⇒EN 1341 Slabs of Natural Stone for external paving
- ⇒EN 1342 Setts of Natural Stone for external paving
- ⇒EN 1343 Kerbs of Natural Stone for external use

NB -The technical values specified are values according to the relevant testing standards. Due to natural variations of the stone, material deviations from the specified values can occur.

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Characteristics	Test Method	Avg. Value
Apparent Density	EN 1936: 2006	2630Kg/m3
Water Absorption	EN 13755: 2008	0.3%
Flexural Strength	EN 12372: 2006	11.9Mpa
Compressive Strength	EN 1926: 2006	137Mpa
Abrasion Resistance	EN 14157: 20041	15.2Mm
Slip Resistance (Dry)	EN 14231: 2003	87 USRV
Slip Resistance (Wet)	EN 14231: 2003	71 USRV
Open Porosity	EN 1936: 2006	0.7%
Petrographic description	EN 12407: 2007	Biontite Granite
Country of Origin		Spain



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S1

G-EU-006; Pink
Granite



G-EU-093; Yellow Grey Granite



Reference Standard :

- ⇒EN 1341 Slabs of Natural Stone for external paving
- ⇒EN 1342 Setts of Natural Stone for external paving
- ⇒EN 1343 Kerbs of Natural Stone for external use

NB -The technical values specified are values according to the relevant testing standards. Due to natural variations of the stone, material deviations from the specified values can occur.

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Characteristics	Test Method	Avg. Value
Apparent Density	EN 1936: 2006	2620Kg/m3
Water Absorption	EN 13755: 2008	0.3%
Flexural Strength	EN 12372: 2006	14.6Mpa
Compressive Strength	EN 1926: 2006	132Mpa
Abrasion Resistance	EN 14157: 2004	17.5mm
Slip Resistance (Dry)	EN 14231: 2003	72USRV
Slip Resistance (Wet)	EN 14231: 2003	69USRV
Open Porosity	EN 1936: 2006	0.8%
Petrographic description	EN 12407: 2007	Leucocratic rock, with grayish yellow hue, containing dispersed dark nodules and silver platelets.
Country of Origin		Portugal



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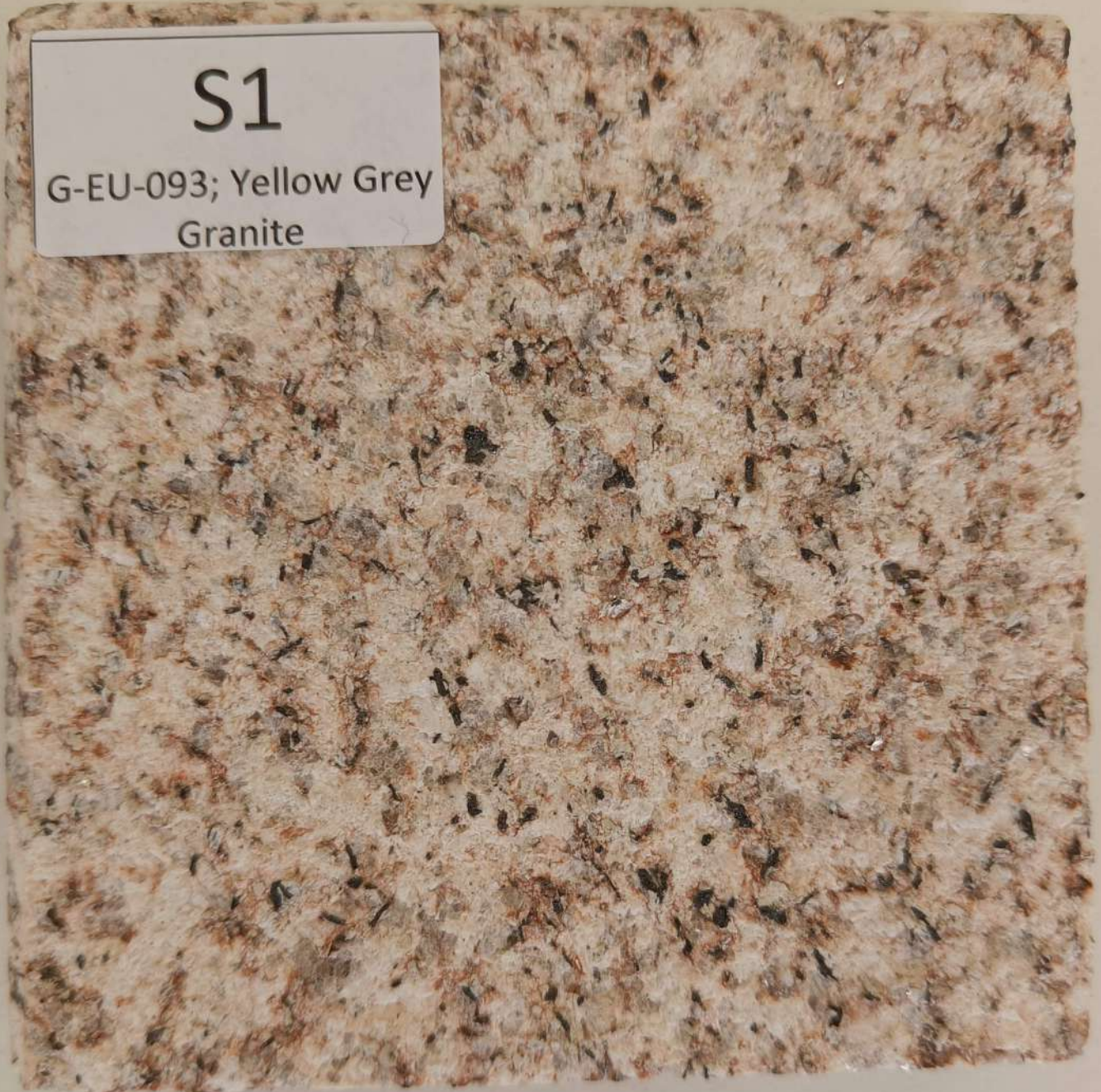
Email: enquiries@stonepave.co.uk

www.stonepave.co.uk

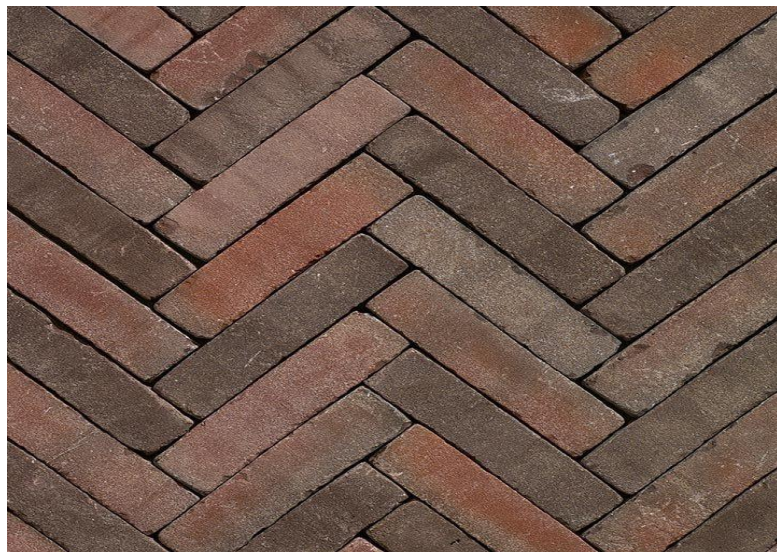
www.stonepave.ie

S1

G-EU-093; Yellow Grey
Granite



SP Clay Slimpave -Alf



Reference Standard :

BSEN -1344

Standard Size : 200x50x80

NB -The technical values specified are values according to the relevant testing standards. Due to natural variations of the stone, material deviations from the specified values can occur.

STONEPAVE

AN OUTHAUS
GROUP COMPANY



Characteristics

Value

Dimensional Deviation (Range)	R1 (BSEN1344)
Size	200x50x60mm
Durability (Freeze/Thaw Resistance)	FP100 (BSEN1344)
Transverse Breaking load	T4 (BSEN1344)
Individual Weight (Net)	1.18 KG
Abrasion Resistance	A1 (BSEN1344)
Unpolished Slip/Skid Resistance	U3 (BSEN1344)
Country of Origin	Netherlands



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S2/S3/S9

SP Clay Slimpave - ALF

S2/S3/S9

SP Clay Slimpave - ALF

Hydropave Fusion


SCAN HERE

Permeable paving with natural granite aggregates.

Hydropave Fusion is a popular permeable block paving product, manufactured with a natural granite appearance creating a striking, contemporary look.

- Functions as a SuDS paving system
- Granite appearance
- Manufactured with natural granite aggregates
- Superb hard-wearing granite surface
- Vibrant long-lasting colours
- Creates a striking, contemporary look



200 x 100mm

Sizes


80mm

Depths
 **PrimeTop®**
 **Ef-Stop®**
TGA

Textured
Granite Aggregate

Finish

Pedestrian
Use

Light
Traffic

Commercial
Traffic

Refer to relevant guidance in BS 7533



Hydropave Fusion



Specification

 **PrimeTop®**  **Ef-Stop®**

Product type	Concrete Paving Block
Manufactured to	BS EN 1338:2003
Surface Layer	Hard-wearing surface layer with a minimum of 4mm and >350kgs/m ³ cement
Surface Finish	Textured Granite Aggregate
Granite Content in Surface Layer (Not less than %)	53% Silver, Graphite, Mid Grey 45% Oat
Efflorescence	Minimum 12 hour vapour curing to significantly reduce the possibility of efflorescence
Drainage Void Width	5.5% to accommodate correct grit grading, reduce maintenance and maximise drainage flow rate
Tensile Splitting Strength	Typical tensile splitting strength of >3.6MPa
Slip/Skid Resistance	Mean polished skid resistance value (PSRV) >45 Mean unpolished skid resistance value (USRV) >45
Installed to	BS 7533-3:2005
NS	Plus Q24 115 Create 45-20-64/400 Plus Q24 117 Create 45-20-64/400 Plus Q24 119 Create 45-20-64/400
Tolerances on Dimensions (mm)	Length ±2mm, width ±2mm, thickness ±3mm
Abrasion Resistance	≤ 23mm (Wide Wheel Abrasion Test) Class 3
Durability (Freeze-thaw)	≤ 1.0 kg/m ² as a mean with no individual value > 1.5 kg/m ² Class 3
External Fire Performance	Deemed to satisfy when used for roofing
Reaction to fire	Class A1
Applications	Refer to the relevant part of BS 7533 for the correct sub-base design and the most suitable product size for your application. Available from www.bsigroup.com
Energy used	100% renewable energy
Water used	100% from our rainwater harvesting system and groundwater bore hole
Recycled content	Not less than 6%
 Carbon Footprint	EPD Verified (2020) 24.36kgCO ₂ e/m ²
Recyclable	100% of this product can be recycled
Manufacturing & Delivery	From one location within the UK
 Breeam rating www.bre.co.uk	B , according to the Green Guide to Specification, 4 th Edition 2009. A , can be achieved by using a recycled sub-base.

Tobermore products are manufactured in accordance with an accredited ISO 9001:2015 Quality Management. Manufacturing facilities are accredited to ISO14001:2015 Environmental Management. The company publish environmental labels and declarations in accordance with BES 6001.

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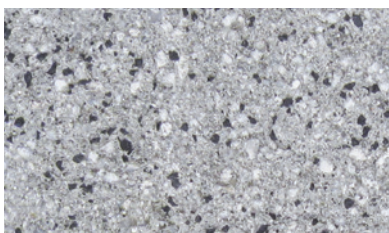
Hydropave Fusion



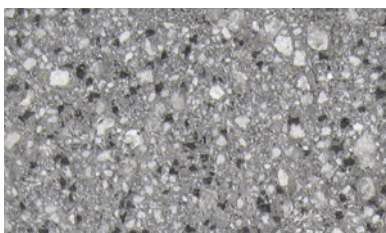
Stock

product	size (mm)	colours available	in stock	m ² per pack	m ² per slice	no. per m ²	no. per pack	weight kg per pack GB	weight kg per pack NI/ROI
Hydropave Fusion	200 x 100 x 80	Graphite, Mid Grey, Oat, Silver	YES	9.6	1.6	50	480	1739	1729

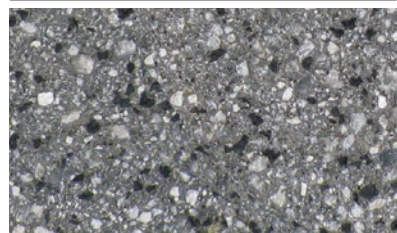
Silver



Mid Grey



Graphite



Oat



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Fusion

Modern granite aggregate paving.

Fusion's granite appearance creates a striking, contemporary look. The Fusion range is ideal for the creation of unique paving patterns and designs.

- Vibrant, granite appearance
- Manufactured with sparkling natural granite aggregates
- Superb hard-wearing granite surface
- Vibrant long-lasting colours
- Significantly reduced efflorescence
- Creates a striking, contemporary look

 **PrimeTop®**  **Ef-Stop®**

TGA
Textured
Granite Aggregate
Finish


Permeable
Also available as

 Pedestrian
Use

 Light
Traffic

 Commercial
Traffic

Refer to relevant guidance in BS 7533


**BIM
Level 2**



SCAN HERE



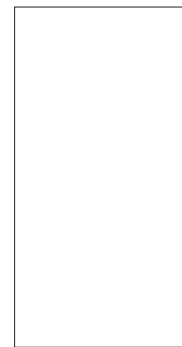
100 x 100mm



200 x 100mm



300 x 200mm



600 x 300mm

Sizes



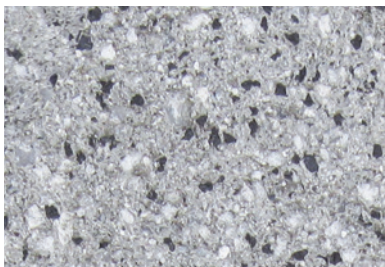
60mm
80mm

Depths

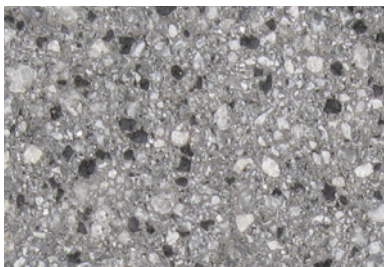
Fusion



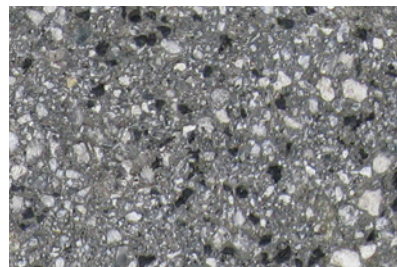
Silver



Mid Grey



Graphite



Oat



IMPORTANT INFORMATION

Tobermore recommend that you separate product groups using contrasting bands of colour as each product is manufactured separately and may have slight variations in colour.

Inevitably on light coloured units any contamination caused by vehicle tyres, leaves, beverages / food etc will be more visible compared to darker coloured units. Therefore careful consideration should be applied when specifying colours in specific applications. If light coloured units are specified it must be accepted that these will require more maintenance if the overall appearance is to be maintained.

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Fusion



Specification

 **PrimeTop®**  **Ef-Stop®**

Product type	Concrete Paving Block		
Manufactured to	BS EN 1338:2003	100x100x60mm 200x100x60mm 100x100x80mm	200x100x80mm 300x200x80mm
	BS EN 1339:2003	300x200x60mm	600x300x60mm 600x300x80mm
Surface Layer	Hard-wearing surface layer with a minimum of 4mm and >350kgs/m ³ cement		
Surface Finish	Textured Granite Aggregate		
Granite Content in Surface Layer (Not less than %)	53% 45%	Graphite, Mid Grey, Silver Oat	
Chamfer	Square Edged		
Efflorescence	Minimum 12 hour vapour curing to significantly reduce the possibility of efflorescence		
Tensile Splitting Strength	BS EN 1338:2003	Typical tensile splitting strength of >3.6MPa,	
	BS EN 1339:2003	Typical tensile splitting strength of >5MPa (Class 3)	
Slip/Skid Resistance	Mean polished skid resistance value (PSRV) >45		
	Mean unpolished skid resistance value (USRV) >45		
Installed to	BS 7533-3:2005	100x100x60mm 200x100x60mm 100x100x80mm	200x100x80mm 300x200x80mm
	BS 7533-4:2006	300x200x60mm	600x300x60mm 600x300x80mm
NSF	Plus Q24 110 Create 45-20-64/400	100x100x60mm 200x100x60mm 100x100x80mm	200x100x80mm 300x200x80mm
	Plus Q25 315 Create 45-20-64/395	300x200x60mm	600x300x60mm 600x300x80mm
Tolerances on Dimensions (mm)	Length ±2mm, width ±2mm, thickness ±3mm		
Abrasion Resistance (mm)	≤ 23mm (Wide Wheel Abrasion Test) Class 3		
Durability (Freeze-thaw)	≤ 1.0 kg/m ² as a mean with no individual value > 1.5 kg/m ² Class 3		
External Fire Performance	Deemed to satisfy when used for roofing		
Reaction to Fire	Class A1		
Applications	Refer to the relevant part of BS 7533 for the correct sub-base design and the most suitable product size for your application. Available from www.bsigroup.com		
Energy used	100% renewable energy		
Water used	100% water used from rainwater harvesting system and groundwater bore hole		
Recycled content	Not less than 6%		
 Carbon Footprint	EPD Verified (2020) 60mm 17.20kgCo ² e/m ² (+6.6% -2.0% depending on specific products) 80mm 23.47kgCo ² e/m ² (+8.4% -5.8% depending on specific products)		
Recyclable	100% of this product can be recycled		
Manufacturing & Delivery	From one location within the UK		
 rating www.bre.co.uk	60mm: A , according to the Green Guide to Specification, 4 th Edition 2009. A+ , can be achieved when used in conjunction with a prepared recycled sub-base. 80mm: B , according to the Green Guide to Specification, 4 th Edition 2009. A , can be achieved when used in conjunction with a prepared recycled sub-base.		

Tobermore products are manufactured in accordance with an accredited ISO 9001:2015 Quality Management. Manufacturing facilities are accredited to ISO14001:2015 Environmental Management. The company publish environmental labels and declarations in accordance with BES 6001.

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Fusion



Stock

product	size (mm)	colours available	in stock	m ² per pack	m ² per slice	no. per m ²	no. per pack	weight kg per pack GB	weight kg per pack NI/ROI
Fusion 60mm BIM	100 x 100 x 60	Graphite, Silver	YES	11.52	0.96	100	1152	1620	1620
	200 x 100 x 60	Graphite, Mid Grey, Oat, Silver	YES	13.44	2.24	50	672	1810	1800
	300 x 200 x 60	Graphite, Mid Grey, Oat, Silver	YES	12.48	3.12	16.66	208	1765	1755
	600 x 300 x 60	Graphite, Mid Grey, Oat, Silver	YES	9.36	4.68	5.55	52	1325	1315
Fusion 80mm BIM	100 x 100 x 80	Graphite, Silver	YES	9.6	0.96	100	960	1746	1746
	200 x 100 x 80	Graphite, Mid Grey, Oat, Silver	YES	9.6	1.6	50	480	1756	1746
	300 x 200 x 80	Graphite, Mid Grey, Oat, Silver	YES	9.6	2.4	16.66	160	1756	1746
	600 x 300 x 80	Graphite, Mid Grey, Oat, Silver	YES	7.2	3.6	5.55	40	1319	1309

BIM - This product is available to download from our website in BIM Level 2 format.

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S4/S11
Hydropave Fusion

S10

Technical Information Sheet

GB Sandstone



Reference Standard :

- ⇒ EN 1341 Slabs of Natural Stone for external paving
- ⇒ EN 1342 Setts of Natural Stone for external paving
- ⇒ EN 1343 Kerbs of Natural Stone for external use

NB - The technical values specified are values according to the relevant testing standards. Due to natural variations of the stone, material deviations from the specified values can occur.

STONEPAVE

AN OUTHAUS
GROUP COMPANY

STONEPAVE



DONE BY DESIGN

Avg. Value

Characteristics Test Method

Apparent Density	EN 1936: 2006	2452Kg/m3
Water Absorption	EN 13755: 2008	1.5%
Flexural Strength	EN 12372: 2006	6.6 Mpa
Compressive Strength	EN 12371: 2010	52 Mpa
Abrasion Resistance	EN 14157: 2004	20.6 mm
Slip Resistance (Dry)	EN 14231: 2013	>70
Slip Resistance (Wet)	EN 14231: 2013	>50
Frost Resistant		YES
Country of Origin		Spain

CE



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www.stonepave.ie

Downtown Victoria North

GB Sandstone Paving



Technical Information Sheet

GB Sandstone



Reference Standard :
⇒EN 1341 Slabs of Natural Stone for external paving
⇒EN 1342 Setts of Natural Stone for external paving
⇒EN 1343 Kerbs of Natural Stone for external use

NB - The technical values specified are values according to the relevant testing standards. Due to natural variations of the stone, material deviations from the specified values can occur.

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STONEPAVE
DONE BY DESIGN

Characteristics	Test Method	Avg. Value
Apparent Density	EN 1936: 2006	2452Kg/m ³
Water Absorption	EN 13755: 2008	1.5%
Flexural Strength	EN 12372: 2006	6.6 Mpa
Compressive Strength	EN 12371: 2010	52 Mpa
Abrasion Resistance	EN 14157: 2004	20.6 mm
Slip Resistance (Dry)	EN 14231: 2013	>70
Slip Resistance (Wet)	EN 14231: 2013	>50
Frost Resistant		YES
Country of Origin		Spain

CE    

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www.stonepave.ie

G-EU-024; Black Granite



Reference Standard :

- ⇒EN 1341 Slabs of Natural Stone for external paving
- ⇒EN 1342 Setts of Natural Stone for external paving
- ⇒EN 1343 Kerbs of Natural Stone for external use

NB -The technical values specified are values according to the relevant testing standards. Due to natural variations of the stone, material deviations from the specified values can occur.

STONEP/VE

**AN OUTHAUS
GROUP COMPANY**

STONEP/VE

**AN OUTHAUS
GROUP COMPANY**

Characteristics	Test Method	Avg. Value
Apparent Density	EN 1936: 2006	2790Kg/M3
Water Absorption	EN 13755: 2008	0.1%
Flexural Strength	EN 12372: 2006	13.6Mpa
Compressive Strength	EN 1926: 2006	176Mpa
Abrasion Resistance	EN 14157: 2004	16.7mm
Slip Resistance (Dry)	EN 14231: 2003	92 USRV
Slip Resistance (Wet)	EN 14231: 2003	75 USRV
Open Porosity	EN 1936: 2006	0.3%
Petrographic description	EN 12407: 2007	Olivino-Gabro. Black coloured rock, medium to coarse grain, granitic texture
Country of Origin		Angola



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Hard Landscaping specialists

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Ireland: 01 844 1200

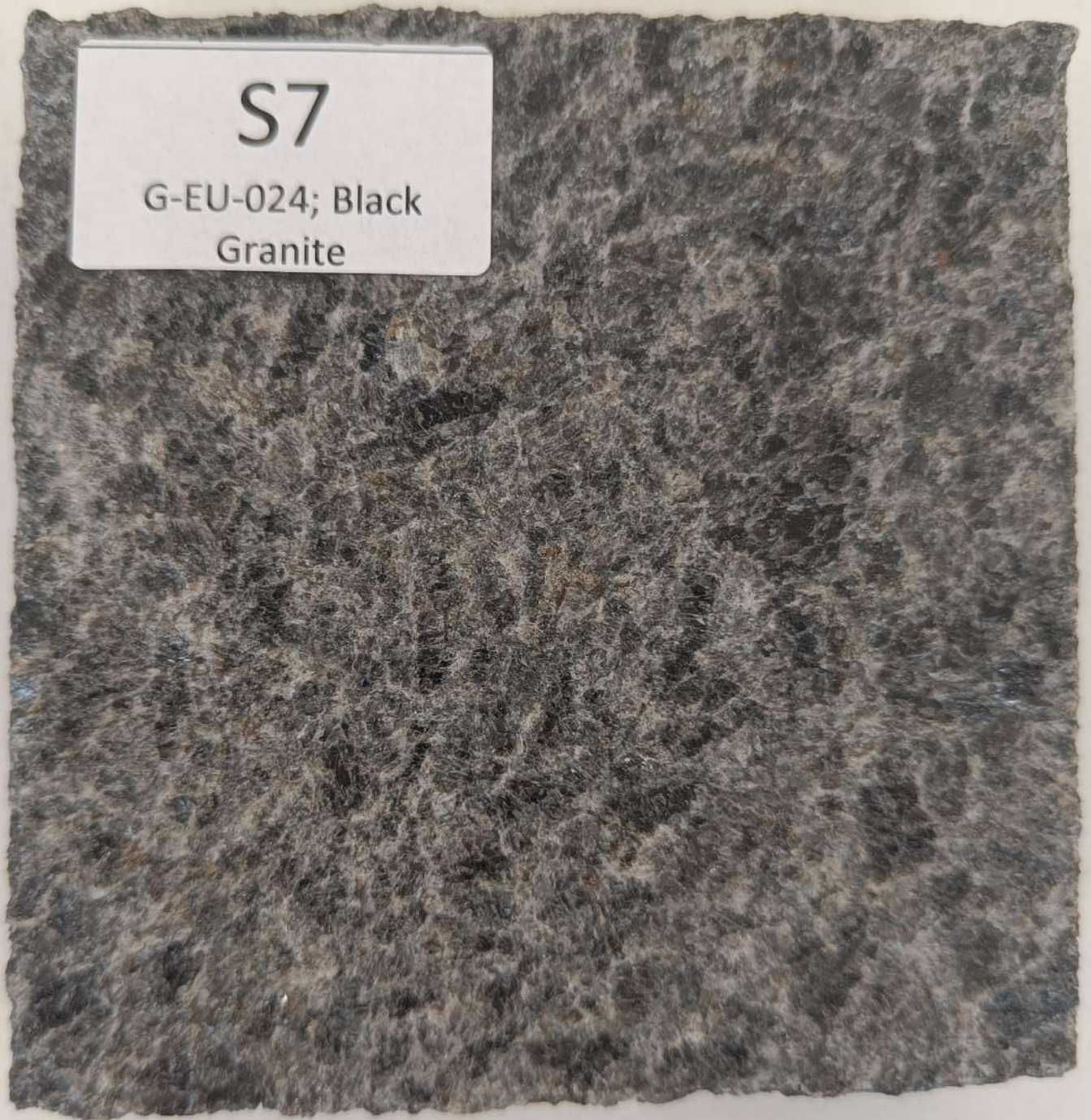
Email: enquiries@stonepave.co.uk

www.stonepave.co.uk

www.stonepave.ie

S7

G-EU-024; Black
Granite



145 x 145 Conservation X Kerb Centre Stone



Consevation
X Kerb - Silver

Conservation X
Kerb - Chacoal

*Natural products are manufactured from aggregates sourced locally to the works and contain no pigmentation, therefore colour variation between products from different works is possible.

For a striking and modern kerb system, the Conservation X Kerb offers a slightly wider profile than a standard kerb, delivering modern design aesthetics in any application.

Marshall's Conservation X Kerb is high in strength and precision-manufactured before going through a unique secondary texturing process, helping it achieve a granite-look finish.

Manufactured in mainland Britain, the beauty of our Conservation X Kerb is the wide range of supporting ancillaries, making it an all-rounded kerb solution. It can be used in a whole host of projects, including pavements, pedestrian areas within busy urban spaces, car parks and more.

Download the **EPD** for Conservation X Kerb & Edging [here](#). Available in Charcoal and Silver Grey colour, these kerbs complement the rest of our Conservation X ranges perfectly.

DESCRIPTION	
Appearance	Solid unit with textured surface
Manufacturing Process	Hydraulically pressed concrete
Base Raw Material	Concrete
Governing Manufacturing Standards	All data where relevant to be established in accordance with BS EN 1340 : 2003
UKCA Marking/DOP	www.marshalls.co.uk/declarations
NBS Specification	Q10 112,Q10 10,Q10 510



145 x 145 Conservation X Kerb Centre Stone

PHYSICAL PROPERTIES

Work Dimensions (mm)	143 x 143 x 915
Nominal Dimensions (mm)	145 x 145 x 915
Tolerances on Work Dimensions (mm)	Width ± 3 mm, height ± 3 mm, length ± 3 mm
Abrasion Resistance (mm)	≤ 23 mm (Wide Wheel Abrasion Test)
Durability (Freeze-thaw)	≤ 1.0 kg/m ² as a mean with no individual value > 1.5 kg/m ²
Material Density	2300 kg/m ³ (typically)
Slip/Skid Resistance (polished)	Mean polished skid resistance value (PSRV) : > 45
Slip/Skid Resistance (unpolished)	Mean unpolished skid resistance value (USRV) : > 45
Thermal Conductivity (K value)	Design data as defined to BS EN 13369 : 2013
Bending Strength MPa	Characteristic bending strength of 3.5 MPa with no individual result less than 2.8 MPa

SPECIFICATION

Approx unit weight (kg)	51
Emission of Asbestos	No content
External Fire Performance	Deemed to satisfy when used for roofing
Reaction to fire	Class A1 when used for internal flooring

SUSTAINABILITY

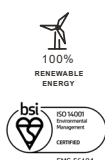
Breeam	0
Carbon Footprint	11

SUPPLY

Units Per Pack	21
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FURTHER INFORMATION

Cleaning & Maintenance	Available on request
Efflorescence	Any product containing cement during its early life may exhibit a temporary white discolouration known as efflorescence. This is not a product fault and will gradually disappear with exposure to natural weathering and trafficking
Weathering	It should be appreciated that with all products weathering and site conditions can cause shade variation to appear across the surface of individual units. This does not in any way affect the performance of the units and any such variation will diminish over a period of time as the product matures.
Product Evolution	The evolution of new product design is continuous and information is subject to change without notice. Customers should check with the supplier to ensure that they have the latest details. Marshall's reserve the right to amend the technical information as deemed necessary and in accordance with the relevant national and international standards without notice
Contact Us	For technical information on the design, specification and construction when utilising the product, contact Group Technical Services on 0370 411 2233



Downtown Victoria North

Marshalls Conservation X kerb

