



A Proud History



80 Years & counting

Behind every remarkable company lies a story of vision and exceptional determination.

At Tobermore our inspirational story began over 80 years ago when Sam Henderson returned from the war as a young man. His mother had saved £500 during his time away and this was quickly invested in a fledgling family business. Sam went on to lead the business into pioneering production of concrete products before subsequent developments laid the foundations for the Tobermore brand.

Today, Tobermore remains family owned and managed, with the same vision, determination and values which are driving the business forward as one of the UK and Ireland's leading manufacturers of concrete paving and walling products. We are now trusted suppliers to some of the country's most prestigious schemes in partnership with leading contractors and housebuilders.

At Tobermore "average" is never acceptable. Our recent £4m investment in the world's most advanced manufacturing equipment is indicative of our determination to always serve our chosen markets with excellent quality and service.

In 2019 we launched a fresh new face for Tobermore reflecting the energy and spirit which drives our people to bring market-beating solutions to designers and contractors across the country. Innovation fuels our growth as we find new ways to further enhance product performance, making us enthusiastic about Tobermore's future in a market which recognises the true value of our 'right first time', responsive service.



Our continual investment in people and new technology is securing Tobermore's excellence for both quality and service.

David Henderson

Managing Director





PrimeTop is the high performance feature which differentiates Tobermore from standard concrete paving. Tobermore's PrimeTop is manufactured with a premium, hard-wearing surface layer which adds significant performance benefits.

PrimeTop Layer

Hard-wearing Surface

The PrimeTop surface layer has a dense composition of finer aggregates, hard sand and a higher percentage of cement. This hardened surface layer has enhanced strength and increased resistance to wear and tear, for both pedestrian and vehicular traffic.

Aesthetic appeal & enhanced weathering

The PrimeTop surface layer contains a high concentration of pigment creating vibrant colour and exceptional UV performance, leading to enhanced weathering properties.

Tobemore PrimeTop is renowned for its superior long-term retention of colour and visual appeal.

We produce two different material mixes; the PrimeTop layer and a robust base layer formulated for optimum structural performance. Both layers are formed simultaneously, producing an inseparable bond that stands the test of time.



✓ PrimeTop* Look for products with the PrimeTop logo





















Product Performance



Combatting efflorescence

Every aspect of our product's performance is researched and optimised to provide an excellent long-lasting appearance. In respect to the challenge of efflorescence, we have invested in manufacturing technology which enables us to produce virtually efflorescence free paving.

Efflorescence is perhaps the single biggest problem encountered with decorative concrete paving products. The cause of efflorescence is simply a chemical reaction between the cement in the concrete and rainwater causing the formation of calcium carbonate. This white, crystalline substance stains the surface and spoils the appearance of the paving.

In the Tobermore manufacturing process, we cure our products in a warm vapour atmosphere for 12 hours, which ensures that efflorescence is dramatically reduced. Moreover, the vapour curing also enhances the colour, improves the strength and cures the products much faster, allowing products to be used almost immediately.



✓ Ef-Stop*
Look for products with the Ef-Stop logo



Competitor's paving



Reliable Partner

Unrivalled Availability

With more stock on the ground and a faster turnaround on batch controlled orders we offer market leading availability on a full range of paving and walling products. Because we manufacture everything on one site we can combine mixed product loads for customer friendly logistics.



ServiceSure is Tobermore's unique package of customer service benefits developed to ensure an efficient, consistent and streamlined experience. This unbeatable, seamless service follows your project from initial enquiry to delivery and beyond, keeping you fully informed at every stage.

Delivery Excellence

You can trust Tobermore to fulfil your order on time and in full as agreed. This industry leading service is proven week in week out and in 2018 we achieved outstanding delivery performance with 99.47% of orders on time and in full.

99.4% ON TIME IN FULL

Easy Spec -

Our specification team is on hand across the UK and Ireland to support you with technical advice, design support and samples. Tobermore's comprehensive website provides additional access to useful information. This is backed up by a package of the industry's leading specification tools including NBS Plus/Create and BIM level 2.

N55

NBS Plus & Create



BIM Level 2



Design Services

Fast Quote We always turn around quotes within one working day.



Intelligent Ordering

Every order placed with Tobermore is sense checked on receipt by one of our trusted advisors who will liaise with you directly to ensure quantity, format and delivery details are right first time. All orders will receive an Order Confirmation with clear product and pricing information.

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Fusion

Outstanding aesthetics and performance.

The Fusion range with natural granite aggregates offers exceptional choice with a wide variety of formats, sizing and colour options. Fusion is available in our permeable solution, Hydropave.

The combination of sparking natural granite aggregates and contemporary colourways provides a Fusion option for every project requiring a modern paving solution.

Every Fusion block is manufactured with Tobermore's PrimeTop construction for enhanced wear and colour retention while the Ef-Stop vapour treatment dramatically reduces the possibility of efflorescence.

Professionals across the UK and Ireland consistently rely on Fusion as their paving of choice due to its consistent performance and Tobermore's seamless support at every stage of the project, from specification to completion.







Fusion



Modern granite aggregate paving.

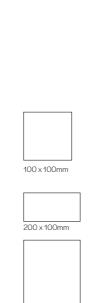
Fusion's granite appearance creates a striking, contemporary look. The Fusion range is ideal for the creation of unique paving patterns and designs.

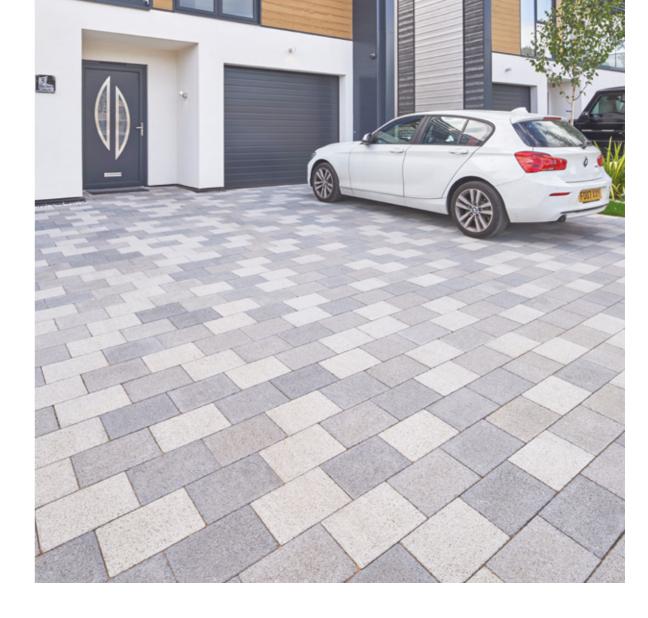
- Vibrant, granite appearance
- Manufactured with sparkling natural granite aggregates
- Superb hard-wearing granite surface
- Vibrant long-lasting colours
- Significantly reduced efflorescence
- Creates a striking, contemporary look

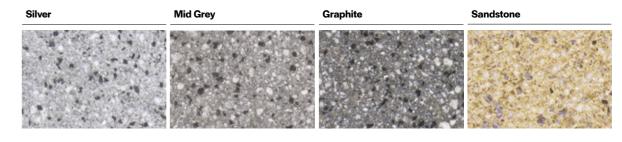












IMPORTANT INFORMATION

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

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.

Tobermore

Fusion



Specification

✓ PrimeTop[®] ✓ Ef-Stop[®]

Product type	Concrete Paving Block							
Manufactured to	BS EN 1338:2003	100x100x60mm 200x100x60mm 200x200x60mm 100x100x80mm	200x100x80mm 300x200x80mm					
	BS EN 1339:2003	300x200x60mm	600x300x60mm 600x300x80mm					
Surface Layer	Hard-wearing surface laye	r with a minimum of 4mm and >3	50kgs/m³ cement					
Surface Finish	Textured Granite Aggregate							
Granite Content in Surface Layer	53% Graphite, Mid Grey, Silver Sandstone							
(Not less than %)								
Chamfer	Square Edged							
Efflorescence		uring to significantly reduce the						
Tensile Splitting Strength	BS EN 1338:2003	Typical tensile splitting stre	ength of >3.6MPa,					
	BS EN 1339:2003	Typical tensile splitting stre	ength of >5MPa (Class 3)					
Slip/Skid Resistance	Mean polished skid resistance value (PSRV) >45							
	Mean unpolished skid res	istance value (USRV) >45						
Installed to	BS 7533-3:2005	100x100x60mm 200x100x60mm 200x200x60mm 100x100x80mm	200x100x80mm 300x200x80mm					
	BS 7533-4:2006	300x200x60mm	600x300x60mm 600x300x80mm					
೧೬೯	Plus Q24 110 Create 45-20-64/400	100x100x60mm 200x100x60mm 200x200x60mm 100x100x80mm	200x100x80mm 300x200x80mm					
	Plus Q25 315 Create 45-20-64/395	300x200x60mm	600x300x60mm 600x300x80mm					
Tolerances on Dimensions (mm)	Length ±2mm, width ±2m	m, thickness ±3mm						
Abrasion Resistance (mm)	≤23mm (Wide Wheel Ab	rasion Test) Class 3						
Durability (Freeze-thaw)	≤1.0 kg/m² as a mean with no individual value >1.5 kg/m² Class 3							
External Fire Performance	Deemed to satisfy when i	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 rain	nwater harvesting system and gro	oundwater bore hole					
Recycled content	Not less than 6%							
Carbon Footprint	EPD Verified (2020) 60mm 17.20kgCo²e/m² (+6.6% -2.0% depending on specific products) 80mm 23.47kgCo²e/m² (+8.4% -5.8% depending on specific products)							
Recyclable	100% of this product can l							
Manufacturing & Delivery	From one location within the	ne UK						
precom rating www.bre.co.uk	with a prepared recycled s	sub-base. ne Green Guide to Specification,	4 th Edition 2009. A+ , can be achieved when used in conjunction 4 th Edition 2009. A , can be achieved when used in conjunction with					

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.









BIM Level 2

sh Also available as

ble as Refer to relevant guidance in BS 7533



Stock

product	size (mm)	colours available	in stock	m² per pack	m² per slice	no. per m²	no. per pack	weight kg per pack GB	weight kg per pack NI/ROI
Fusion 60mm	100 x 100 x 60	Graphite, Silver	YES	11.52	0.96	100	1152	1630	1620
ВІМ	200 x 100 x 60	Graphite, Mid Grey, Sandstone, Silver	YES	13.44	2.24	50	672	1810	1800
	300 x 200 x 60	Graphite, Mid Grey, Sandstone, Silver	YES	12.48	3.12	16.66	208	1765	1755
	600 x 300 x 60	Graphite, Mid Grey, Sandstone, 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	1756	1746
	200 x 100 x 80	Graphite, Mid Grey, Sandstone, Silver	YES	9.6	1.6	50	480	1756	1746
	300 x 200 x 80	Graphite, Mid Grey, Sandstone, Silver	YES	9.6	2.4	16.66	160	1756	1746
	600 x 300 x 80	Graphite, Mid Grey, Sandstone, 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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Hydropave Fusion



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

✓ PrimeTop° ✓ Ef-Stop°











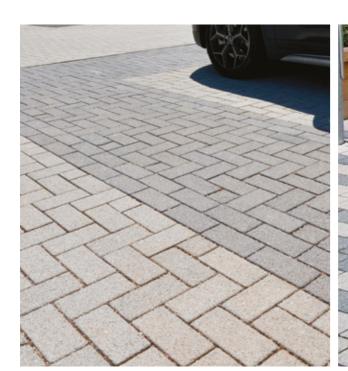
Hydropave Fusion



Pedestrian

Finish

se Traffic Traffic







Specification

✓ PrimeTop^{*} ✓ Ef-Stop^{*}

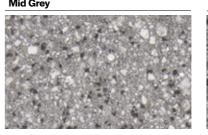
Product type	Concrete Paving Block
Manufactured to	BS EN 1338:2003
Surface Layer	Hard-wearing surface layer with a minimum of 4mm and >350kgs/m³ cement
Surface Finish	Textured Granite Aggregate
Granite Content in Surface Layer	53% Silver, Graphite, Mid Grey
(Not less than %)	45% Sandstone
Efflorescence	Minimum 12 hour vapour curing to significantly reduce the possibility of efflorescence
Frost Protection	Yes
Drainage Void Width	5.5% to accommodate correct grit grading, reduce maintenance and maximise drainage flow rate
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
NSS	Plus Q24115 Create 45-20-64/400 Plus Q24117 Create 45-20-64/400 Plus Q24119 Create 45-20-64/400
Tolerances on Dimensions (mm)	Length ±2mm, width ±2mm, thickness ±3mm
Abrasion Resistance	Class 3
Durability (Freeze-thaw)	
, (Class 3
External Fire Performance	Class 3 Deemed to satisfy. See Commission Decision 2000/553/EC
• •	
External Fire Performance	Deemed to satisfy. See Commission Decision 2000/553/EC
External Fire Performance Reaction to fire	Deemed to satisfy. See Commission Decision 2000/553/EC Class A1 Refer to the relevant part of BS 7533 for the correct sub-base design and the most suitable product size for your application.
External Fire Performance Reaction to fire Applications	Deemed to satisfy. See Commission Decision 2000/553/EC Class A1 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
External Fire Performance Reaction to fire Applications Energy used	Deemed to satisfy. See Commission Decision 2000/553/EC Class A1 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 100% renewable energy
External Fire Performance Reaction to fire Applications Energy used Water used	Deemed to satisfy. See Commission Decision 2000/553/EC Class A1 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 100% renewable energy 100% from our rainwater harvesting system and groundwater bore hole
External Fire Performance Reaction to fire Applications Energy used Water used Recycled content	Deemed to satisfy. See Commission Decision 2000/553/EC Class A1 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 100% renewable energy 100% from our rainwater harvesting system and groundwater bore hole Not less than 6%
External Fire Performance Reaction to fire Applications Energy used Water used Recycled content Carbon Footprint	Deemed to satisfy. See Commission Decision 2000/553/EC Class A1 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 100% renewable energy 100% from our rainwater harvesting system and groundwater bore hole Not less than 6% 34kgCo²e/m²

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.

Stock

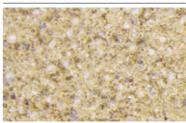
product	size (mm)	colours available	in stock	m² per pack	m² per slice	no. per m²	no. per pack	weight kg per pack GB	weight kg per pack NI/ROI
Hydropave Fusion	200 x 100 x 80	Graphite, Mid Grey, Sandstone, Silver	YES	9.6	1.6	50	480	1739	1729

Oliver





Sanastone







Striking granite aggregate permeable paving.

Hydropave Fusion Duo is a contemporary permeable block paving with granite aggregates available in our Duo mixed size format. Fusion is an attractive and practical block paving solution.

- 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

✓ PrimeTop[®] ✓ Ef-Stop[®]





Duo Sizes





Hydropave Fusion Duo





Refer to relevant guidance in BS 7533







Specification

PrimeTop*

Ef-Stop*

Product type	Concrete Paving Block
Manufactured to	BS EN 1338.2003
Surface Layer	Hard-wearing surface layer with a minimum layer of 4mm and >350kgs/m³ cement
Surface Finish	Textured Granite Aggregate
Granite Content	Not less than 53% of granite aggregate in surface layer for Silver and Graphite; not less than 45% of granite aggregate in surface layer for Sandstone.
Efflorescence	Minimum 12 hour vapour curing to significantly reduce the possibility of efflorescence
Frost Protection	Yes
Drainage Void Width	5% to accommodate correct grit grading, reduce maintenance and maximise drainage flow rate
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
በሄና	Plus Q24115 Create 45-20-64/400 Plus Q24117 Create 45-20-64/400 Plus Q24119 Create 45-20-64/400
Tolerances on Dimensions (mm)	Length ±2mm, width ±2mm, thickness ±3mm
Abrasion Resistance	Class 3
Durability (Freeze-thaw)	Class 3
External Fire Performance	Deemed to satisfy. See Commission Decision 2000/553/EC
Reaction to fire	Class A1
Applications	Refer to the relevant part of BS 7533 for the correct sub-base design 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	Silver 24kgCo²e/m² Sandstone 26kgCo²e/m² Graphite 26kgCo²e/m²
Recyclable	100% of this product can be recycled
Manufacturing & Delivery	From one location within the UK
breedin rating	A, according to the Green Guide to Specification, 4th Edition 2009. A+, can be achieved by using a recycled sub-base.

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Stock

product	size (mm)	colours available	in stock	m² per pack	m² per slice	no. per m²	no. per pack	weight kg per pack GB	weight kg per pack NI/ROI
Hydropave Fusion Duo (both sizes in one pack) BIM	208 x 173 x 60 173 x 173 x 60	Graphite, Sandstone, Silver	YES	12.87	0.99	30	195 195	1800	1790

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



Graphite'



*Swatches are for colour reference only.



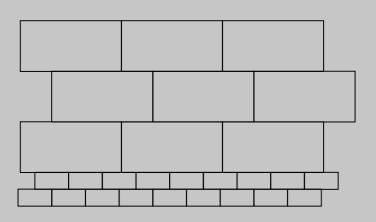
Sandstone

IMPORTANT INFORMATION

spills. It must be accepted that these products will need more maintenance if the overall appearance is to be maintained.

Laying Patterns

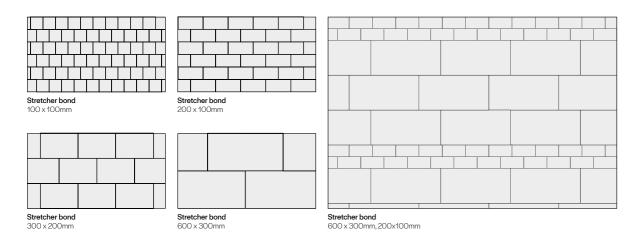
As a modular paving product, with a variety of soft and contemporary colours available, Fusion offers an array of design possibilities. A variety of laying patterns can be achieved through the careful selection of sizes and colours to create a truly unique space.



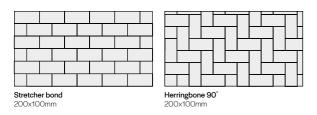


Laying Patterns

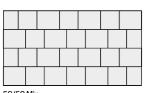
Fusion



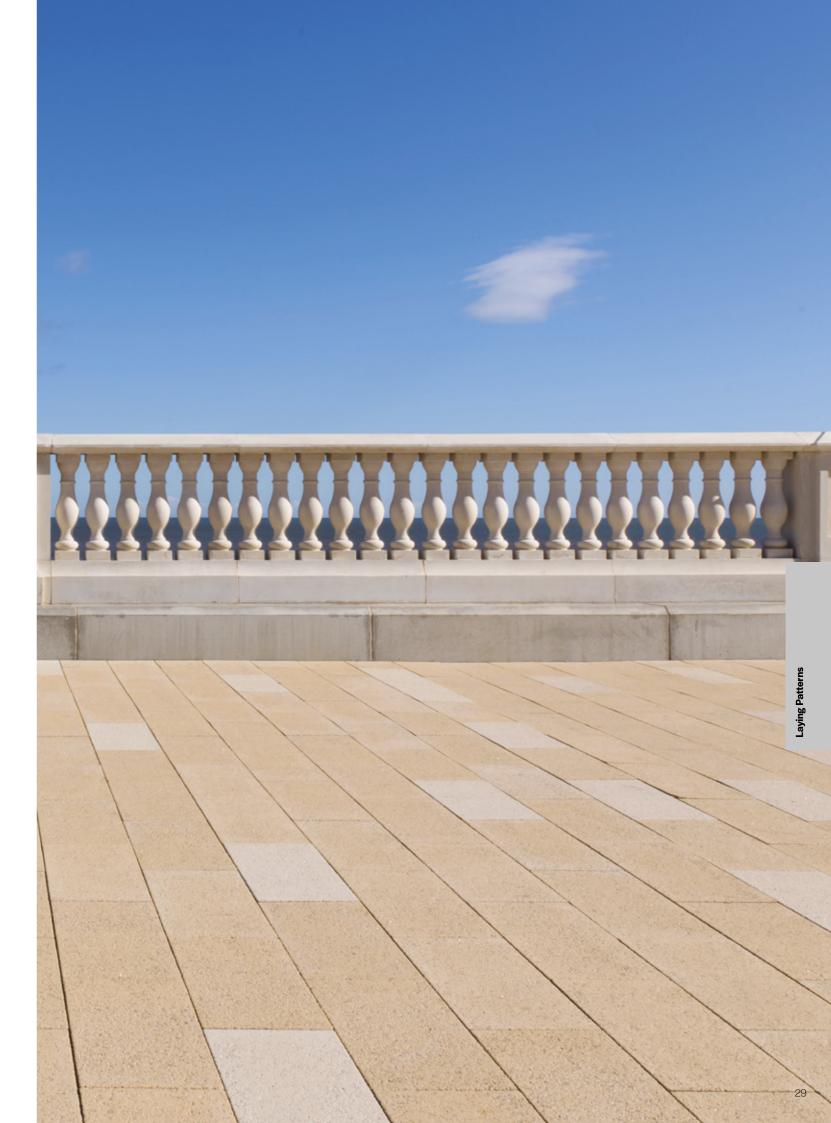
Hydropave Fusion



Hydropave Fusion Duo



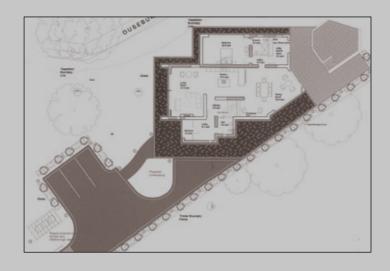
50/50 Mix 173 x 173mm , 208 x 173mm





Hard Landscape Proposal

Tobermore's team of qualified landscape designers offer a Hard Landscape Proposal to help select the most suitable products and design concept for any type of project, helping to achieve the best results possible.

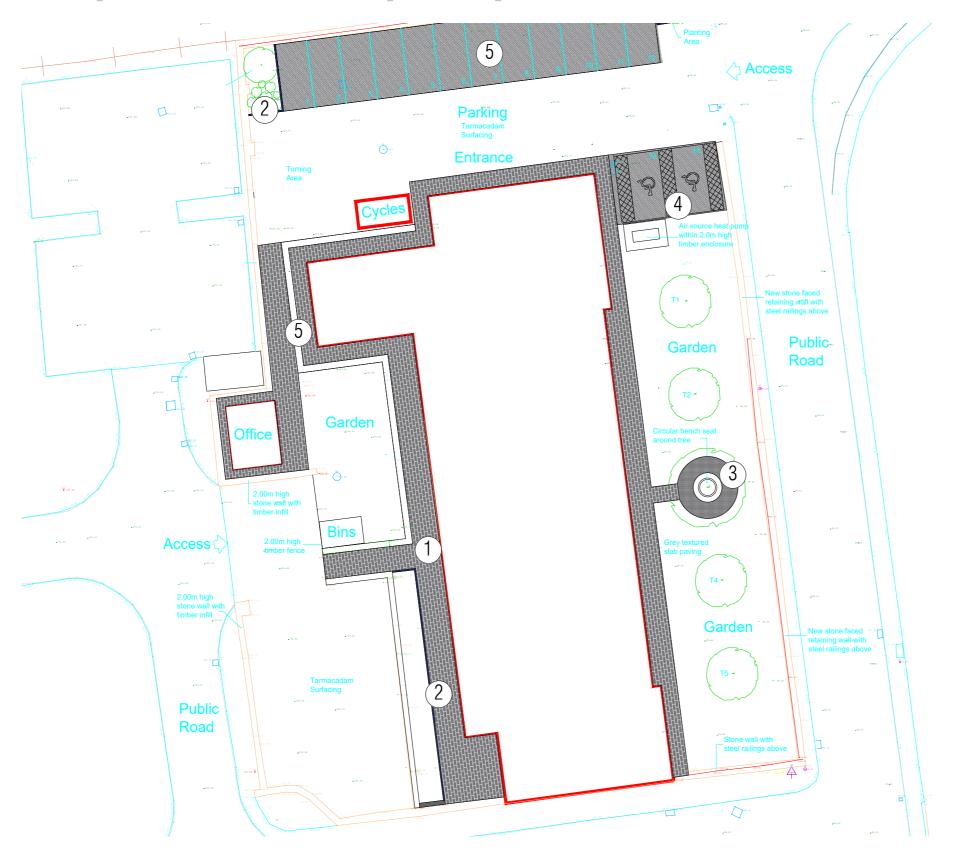




30



Example Hard Landscape Proposal

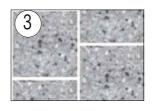




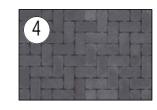
MAIN TERRACE; PRODUCT; STANZA COLOUR; 'SLATE', SIZE; 450X225X50MM LAID STACKED



MAIN TERRACE & CARPARK EDGE KERBS; PRODUCT; ,KERBSTONE; COLOUR; 'CHARCOAL', SIZE; 190X160X100MM



TREE SURROUND SEATING AREA; PRODUCT; FUSION, COLOUR; 'SILVER', SIZE; 100X100X60MM LAID STAGGERED WITH A CIRCULAR PATTERN



PARKING BAY OPTION; PRODUCT; PEDESTA, COLOUR; 'CHARCOAL WITH NATURAL DELINEATION', SIZE; 200X100X80MM LAID 90 DEGREE HERRINGBONE



RETAINING WALL OPTION; PRODUCT; SECURA LITE, COLOUR; 'SLATE', SIZE; 3 SIZES PLUS COPING 320, 280, 240, X 200X80MM

The Elms Community Hub

Richardson Surveying & Architecture

Products: Stanza

Kerbstone Charcoal

Fusion Silver Secura Lite

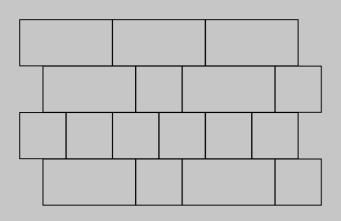
32

Pedesta

Featured Projects

Tobermore's world class collection of Featured Projects are designed to provide a look at some of our most beautiful and impressive commercial schemes.

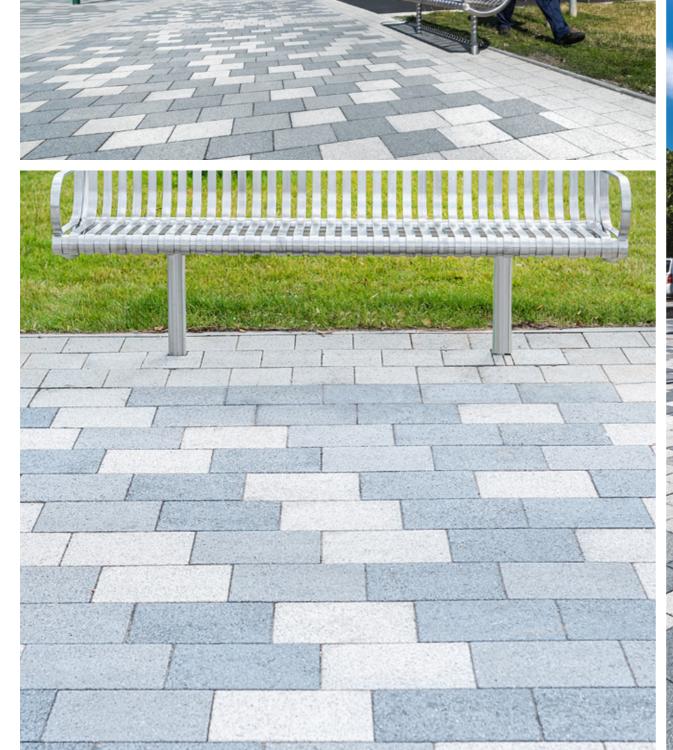
Our Featured Projects represent quality projects from the Public Realm, Commercial, Hotel, Leisure, Retail, Education, Housing, Heritage and Healthcare sectors in each region of the UK and Ireland, as well as showcasing the paving and walling products supplied by Tobermore.







Public Realm





Hurst Lane Place

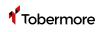
Solihull

Products: Fusion Graphite, Mid Grey & Silver

Client Solihull Council **Landscape Architect**Raquel Leonardo, Urban Designer at Wiltshire Council

Contractor
Balfour Beatty Living Places

GroundworkerKelbec Civils Ltd



Retail







LIDLPortadown

Products: FUSION Silver, Mid Grey, Sandstone, Noir Architect
SDS (Structural Design Solutions) Ltd

ContractorJH Turkington



Commercial



RAL Space

Space & Technology Facilities Council

Didcot, Oxfordshire

Products:
Fusion
Silver, Sandstone, Mid Grey & Graphite

Client
Rutherford Appleton Laboratory
& Science and Technology Facilities Council

ArchitectFairhursts Design Group

ContractorWillmott Dixon



Education









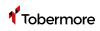
Peel Park Quarter University of Salford

Products: Hydropave Fusion Fusion Kerb Silver & Graphite Fusion Kerb

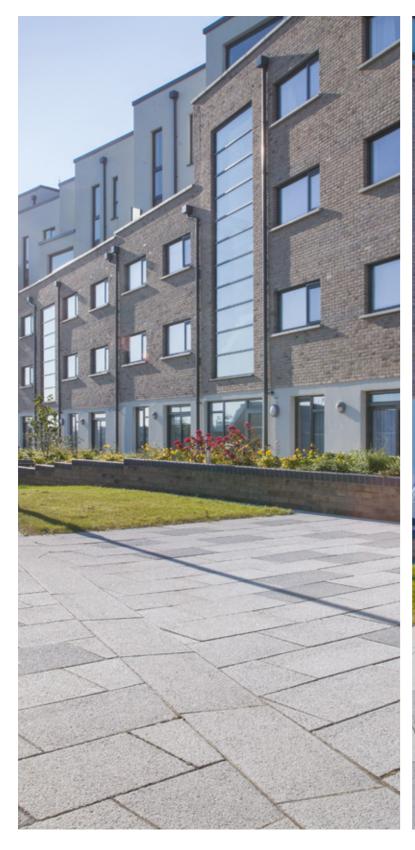
Landscape Architect Gillespies

Main Contractor Graham Construction

Groundworker Gibson Paving



Housing





New Priory

Donaghmeade, Dublin

Products: Fusion Mid Grey & Silver **Architect**Dublin City Council

Groundworker
C&A Excavations Ltd



Sports & Leisure





Oak Park Active LivingWalsall, West Midlands

Products:
Fusion
Silver, Graphite & Sandstone

Client
Lichfield District Council

Architect NORR Main Contractor

GroundworkerChurngold Construction



Healthcare







Queen Elizabeth University Hospital Glasgow

Products:

Hydropave Fusion Hydropave Fusion Duo Silver

NHS Greater Glasgow & Clyde

Nightingales Associates

Landscape Architect Gillespies / BMJ

Groundworker Brookfield Multiplex



Instructions & Warnings

As referred to in Tobermore's Conditions of Sale

CORE TERMS (PAVING & WALLING)

All products should be carefully inspected for defects or damage upon delivery and prior to being laid or fitted.

Within Tobermore, design and development of products is a continuing process, and product information is subject to change without notice. Accordingly, please check with Tobermore to ensure that the product information you have represents the most up-to-date product information.

Prior to Installation

Prior to opening the packs check that all the batch code labels match. The batch code labels can be found on the outer packaging. For example, 04D22N.

It is good practice to sort products to ensure consistency of colour, texture and dimensional tolerance. Any defects must be reported without delay. If products are installed with any form of defect which was clearly apparent prior to installation the installer will be responsible for all costs incurred to rectify the issue.

All products should be installed in accordance with the latest British Standard.

Colour/Shade & Texture

Tobermore produces paving and walling products with excellent density and durability. All products are manufactured in batches using naturally extracted raw materials including aggregates, pigments and cement etc. Products such Braemar, Sienna, Fusion, Mayfair Flags, Manhattan, City Pave and Fusion Kerbs are manufactured using premium naturally occurring granite aggregates. To achieve their final appearance some products undergo secondary processes, this involves shot blasting or grinding the surface of the product.

Whilst we have several factory procedures in place to help control shade, colour and texture within and between batches we cannot guarantee consistency. This is due to the natural materials and secondary processes. Therefore, slight variations in the finished products is normal between and within batches. These variations actually enhance the character and natural beauty of the products.

To achieve the best possible finish we recommend the following advice is followed to evenly distribute any slight variations in shade, colour and texture over a large area. When the circumstances allow complete one area of paving, one retaining wall or one

house / building by using products taken from the same batch. This is achieved by checking the batch code label displayed on the packs.

Always, thoroughly mix products from a minimum of three packs.

Where products are supplied in packs with vertical slices always take them "vertically slice by slice" this ensures that colours are distributed evenly.

When the circumstances do not allow the use of products from the same batch then it is extremely important to minimise possible colour banding /shading by always. thoroughly mixing products from a minimum of three packs concurrently with some overlap between deliveries / batches.

Where products from different batches are being installed in the same area of paving, wall or building it is the installers responsibility to carry out a colour match check by comparing colours from each batch. If a noticeable variance in colour / shade or texture is visible, do not proceed with the installation and contact your supplier for

Mixing thoroughly from a minimum of three packs is of particular importance when installing single colours such as Golden, Buff, Natural, Charcoal, Graphite, Silver, Mid-Grey, Sandstone, Alto Silver, Aaron Stone, Jura Grey and Innis Black.

During installation the installer must make regular visual checks to ensure the blending of colours is consistent.

We would always recommend that when purchasing products, especially in larger quantities, that they are all ordered at the same time.

Please note that the colour of new products will inevitably vary compared to those that have been installed for a period of time as weathering does take place.

All colour illustrations are as accurate as the printing process will allow. For a more accurate colour match please refer to actual product samples, which can be provided Colours and textures illustrated are representations and therefore should not be expected to be an exact match.

The overall visual appearance of a completed installation should only be assessed from the normal viewing distance. Variations in colour/shade and texture are technically harmless, do not affect the products performance and are not deemed to be a product defect.

We will not be held liable for any discolouration or staining caused to product which has been stored incorrectly.

Note: Whilst we strive to ensure consistency, complimentary products such as Kerb Specials, Step Flags, Facing Brick Specials, Historic Circles etc. may not be an exact colour / texture or shade match to the standard version of the product as they will have been manufactured at varying times using different processes.

Tegula is manufactured using a secondary process that distresses the edges and corners of the blocks to give the desired aged antique appearance. The process randomly distresses the blocks, therefore some blocks will be more distressed than others will, this is completely normal and does not affect the product performance.

Some chemicals that are commonly used in gardens such as lawn feed containing Ferrous Sulphate can stain concrete products. Any chemicals that are spilt must be remo immediately by rinsing away with clean water. Please check the information on the instruction label of the container holding the chemical.

Occasionally, after installation, some units may show variations in shade and have a patchy appearance. This is due to the varying amounts of moisture within the concrete and the ground. The drying out process of concrete continues in-situ after installation. Some units may also retain more moisture than neighbouring units and take longer to dry out. This is caused by the variations in density of the naturally extracted aggregates used in the manufacturing process. Given time and natural weathering, the capillaries within the surface of the concrete will gradually close and any patches or moisture retention will dissipate as the product matures. This does not affect long-term performance.

Efflorescence is a crystalline deposit that occurs naturally on the surface of concrete materials. It usually appears as a white deposit but can also be brown or yellow in appearance. Tobermore use market-leading technology to significantly suppress the occurrence of efflorescence, however, if it occurs, it may mask the colour of the product for a period of time, but tends to be washed away gradually by rain. Tobermore do not replace products with efflorescence. Packs of products which have had packaging removed should always be re-covered with appropriate packaging to prevent the occurrence of

Minor scuffs or bruises may occur during delivery, movement onsite, and installation (for example, during any plate vibrating process). In Tobermore's experience, these marks usually weather off through time.

To reduce the risk of surface scratches we strongly recommend the use of a vibrating plate with a rubber protective mat.

To avoid waste, please ensure that your contractor accurately measures the area on site before ordering products. In Tobermore's experience, dimensions taken from a project plan can vary significantly from the final layout.

Depending on the layout of the project, we recommend ordering an additional 2 - 5% of material to allow for cutting, detailing and wastage.

Manufacturing & Quality Systems

Tobermore is a BS EN ISO 9001, BS EN ISO 14001 and BES 6001 registered company. Tobermore uses an integrated management system to manage all health & safety and

Routine cleaning and maintenance is required to keep the overall appearance of products

All concrete products can develop algae, lichen, and moss growths due to environmental conditions and may require cleaning. Areas adjacent to plant borders and trees may discolour from transfer of plant-life. Tobermore cannot accept responsibility for any of

Please contact one of Tobermore's Paving & Walling Centres or offices (contact details at www.tobermore.co.uk) with any queries or complaints. Any complaints must be notified to Tobermore without delay

CORF TERMS (PAVING ONLY)

Paving installed unbound should have a close joint width of 2-5mm to allow for the dimensional tolerances of products and to create a gap to allow the brushing in of kiln $\,$ dried jointing sand. The straightness of lines will be dependent on workmanship and product tolerances. String lines must be used to help achieve straight lines. Tobermore do not recommend Butt jointing as this will make achieving straight lines more

Light coloured paving blocks and flags emphasise tyre marks and oil spills on the driveway. Please note that these products will need more maintenance if overall appearance is to

When an area has just been paved, allow it to settle for a few days. After this, you may wish to lightly hose down the paving to remove any excess sand or dirt. The area should then be treated with a weed killer suppressant 2-3 times per year as required.

Paving requires regular maintenance, including regular sweeping to prevent the build up of detritus. Tobermore recommends that paving is cleaned 2-3 times per year.

For general cleaning of dirt and algae, vigorous brushing with a stiff yard brush with plenty are not recommended. It is vital that all horizontal and vertical joints between Country of hot detergent solution (washing up liquid or non-bio washing powder), thoroughly rinsed with clean water, should suffice. Repeated treatment may be required for paved areas sited beneath trees or in permanent/near permanent shade.

A light power hose at medium pressure is generally all that is required to clean general dirt and grime. Any jointing material which is removed must be replaced. Do not use high pressure powerwashers as aggressive power-washing can damage the product surface. A trial area should be tested before large scale powerwashing takes place.

Moss, Lichen and Algae
Thick growths of moss or lichen must be removed first by scraping out the joints and then treating the area with a moss killer such as anti-moss paving cleaner. Anti-moss is designed to remove moss, lichens and algae. It is best applied in dry weather. After being applied it will take a few days to be fully effective. Once the moss and lichens have been killed. they can easily be brushed off. Anti-moss also leaves a residue in the sand joint which will help reduce the likelihood of re-growth. The manufacturer's instructions should always be followed when using any cleaning agent.

Large weeds should be removed by hand and then the area treated with a weed killer (available from any good garden centre). Smaller weeds can then be treated directly with weed killer and these weeds should start to die within days. The manufacturer's instructions should always be followed when using any weed killing agent.

Block Paving Sealer

It is possible to seal block paving with a resin material which combats staining and weed growth and which also enhances colour and appearance. The acrylic sealer is sprayed onto the block paving and forms a 'skin' on top of the paving and the jointing material giving an easily maintained finish. The manufacturer's instructions should always be followed when using any sealing agent.

FOR HYDROPAVE PRODUCTS

Installation - Hydropave

Tobermore recommends that its Hydropave products be installed in conjunction with a BS EN 7533-13:2009 designed permeable paving system.

Note: A permeable paving design relies heavily on using the correct aggregates. Prior to installation, we would ask you to test both the 4/20mm coarse graded aggregate and also the 6.3-2mm bedding and jointing grit as per the relevant British Standard specification (BS EN 13242:2002). In particular, the material should be categorised as LA20 according to Table 9, SZ18 according to Table 10 and MDE15 according to Table 11 within this standard. The grit should be insoluble in dilute hydrochloric acid and should be naturally occurring material. In our experience, incorrect use of aggregates is one of the most common reasons for failure of a permeable paving system.

All joints must be filled to the top with 6.3 – 2mm grit to prevent movement and spalling of the blocks. We recommend that after a few weeks use, any joints which have settled and are not full, are topped up with grit. Joints should be kept filled at all times. You will need approximately one tonne of grit for every 100m2 of 80mm paving.

Note: Care should be taken that the permeable joints do not become contaminated as work on the scheme is completed. Special care needs to be taken when soft landscaping is carried out so that soil does not enter the joints. When this type of work is being carried out, the surface of the permeable paving should be protected by an appropriate cover to protect the joints from being contaminated.

Hydropave Maintenance

Please refer to Tobermore's detailed 'Permeable Paving Maintenance Guidelines' available on our website: www.tobermore.co.uk

FOR EASYCLEAN PRODUCTS

Handling & Installation

During installation, the surface should be protected at all times from scratching and

Once the protective glue dot has been removed do not stack flags directly on top of each

Use a plate vibrator with a rubber mat.

Do not scratch the surface with tools. (Spade, trowel etc.)

User advice

Do not drag garden furniture across the surface of the flags.

Do not use chemical cleaning products (e.g. solvents/acids).

FOR FACING BRICK & COUNTRY STONE PRODUCTS

Where the circumstances allow, it is beneficial to complete one building / structure using bricks taken from one batch and mixed on site from a minimum of 3 packs to avoid colour banding / shading. If the circumstances do not allow for this then it is important to minimise the possibility of banding / shading by always mixing bricks from 3 packs concurrently with some overlap between deliveries

Where the site conditions allow, it will also be beneficial to take receipt of as many bricks as FOR SECURA PRODUCTS possible at an early stage to maximise colour consistency throughout the site.

Please refer to Tobermore's detailed 'Guide to the use of Tobermore Concrete Bricks' scheme engineer. available on our website: www.tobermore.co.uk

Installation - Country Stone

Tobermore's Country Stone products are designed to recreate traditional stone sizes and to co-ordinate with standard cavity wall construction. When used in housing projects, a clear cavity must be retained

All work must be protected during construction and must be designed and built in accordance with accepted industry standards and practice. Builders familiar with conventional brickwork will find that similar installation principles apply.

Joints can be finished flush or tooled depending on the overall effect required. Raked joints

Stone blocks must be compacted and free from voids. Shell bedding should not be used.

Good Practice during Construction - Facing Bricks & Country Stone

- If mortar dry's on the surface of the bricks it will stain the product and may not be
- Mortar extruding from joints should be removed when the mortar is wet and during the process of laying.
- Any mortar smears on the brick surface should be removed by dry or wet brushing.
- · Scaffolding should be installed as per regulatory instructions. Please note that mortar can drop and hit the scaffolding and then also go onto the wall. You should inspect the work area at all times to ensure the brick surface remains mortar free
- When it rains be careful that any wet mortar on the scaffolding does not get 'splashed' onto the wall.
- When work stops or is interrupted by inclement weather conditions, brickwork should be protected immediately with polythene sheeting that is held in place with a suitable fixing. If new brickwork is not protected efflorescence, patchy mortar colour, patchy brickwork and staining can occur.
- Bricks should always be covered with polythene sheets to avoid getting damp or dirty. when not being used.

General Cleaning Advice - Facing Bricks & Country Stone

- . It is always important to keep bricks as clean as possible while laying and tooling. See Good Practice above.
- If mortar has been allowed to dry on the surface of the bricks the options you have to clean it off are as follows; Each process should be tested first and should ensure the facing bricks are not damaged - Dry brushing b. Wet brushing c. Using a 'like coloured' brick to rub the stained brick d. Pressure washing - should only be used as a last resort as it will damage the surface and the mortar joint if not completed correctly (this method cannot be attempted until the area has been allowed to set for a minimum of 7 days).
- Acid cleaning should be avoided.

Movement Joints and Mortar Guidance - Facing Bricks & Country Stone

- 1. NHBC recommends that walls constructed of concrete facing bricks should have vertical movement joints included every 6m to allow for drying/shrinkage, see PD6697:2010 section 6.2.6.3.4, maximum ratio for brickwork panels is to be 3:1 length : height. PD6697:2010 section 6.2.6.4 gives advice on joint positions, the benefit of brickwork reinforcement at window openings is covered in section 6.2.6.7 of the same document. Movement joints should be planned prior to commencing any construction to enable them to be concealed behind down pipes etc. and ensure the aesthetic of the building
- 2. It is important to ensure that the mortar specified for the construction is suitable for the contract, see table 15 of PD6697:2010 - class M4 is the maximum recommended for normal external facing brick walls. This should not be exceeded when using Tobermore Concrete facing bricks 3. We would recommend that you discuss this guidance with all parties involved in the
- design, construction and installation of this scheme. We also recommend that you refer to BS EN 1996-1-1 and PD6697:2010.
- 4. Specific professional advice should be obtained at all times before commencing

Important Guidance Information: Tobermore Concrete Facing

1. Professional advice, specific to the project, should be sought before commencement of

- 2. Tobermore Facing Bricks have different properties to clay bricks especially in relation to moisture movement. Please refer to 'Guide to the Use of Tobermore Concrete Facing Bricks', which is available on request or at www.tobermore.co.uk
- 3. Tobermore recommends that vertical movement joints be spaced at no more than 6m apart. Panels of brickwork where the length: height ratio exceeds 3 are particularly vulnerable to cracking; if they cannot be avoided they should include movement joints
- 4. Movement joints should be planned prior to any construction so that they can be concealed behind drainpipes etc. Further guidance on moisture movement is available in the 'Guide to the Use of Tobermore Concrete Facing Bricks' and BSI documents BS EN 1996 (Eurocode 6) and PD 6697 (Recommendations for Design).
- 5. It is important to ensure that the mortar specified is suitable for the construction, see Table 15 of PD 6697. Mortar of strength class M4 will generally be suitable. Please refer to 'Guide to the use of Tobermore concrete facing bricks', which is available on request.
- 6. When building with dissimilar materials allowances should be made for differential movement. Design guidance from a structural engineer should be sought when combining dissimilar materials such as clay and concrete facing bricks. Examples of using dissimilar materials would be where a clay brick is used to build up to the dpc level and then Tobermore concrete facing bricks are used above the dpc. In some circumstances the doc acts as a slip plane to separate the two materials which helps to dissipate tensile stress. However expert guidance should always be sought as to ensure structural stability as further slip planes or bed reinforcement may need to be incorporated into the design.
- 7. It is recommended that this guidance is discussed with all persons involved in the design and construction of the building work.

Installation - Secura

All Secura products should be installed in accordance with British Standard BS8002. When constructing a retaining wall, ensure that you follow the design provided by the



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Paving



Walling & Retaining Walls



Facing Brick



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