Marshalls
Creating Better Spaces

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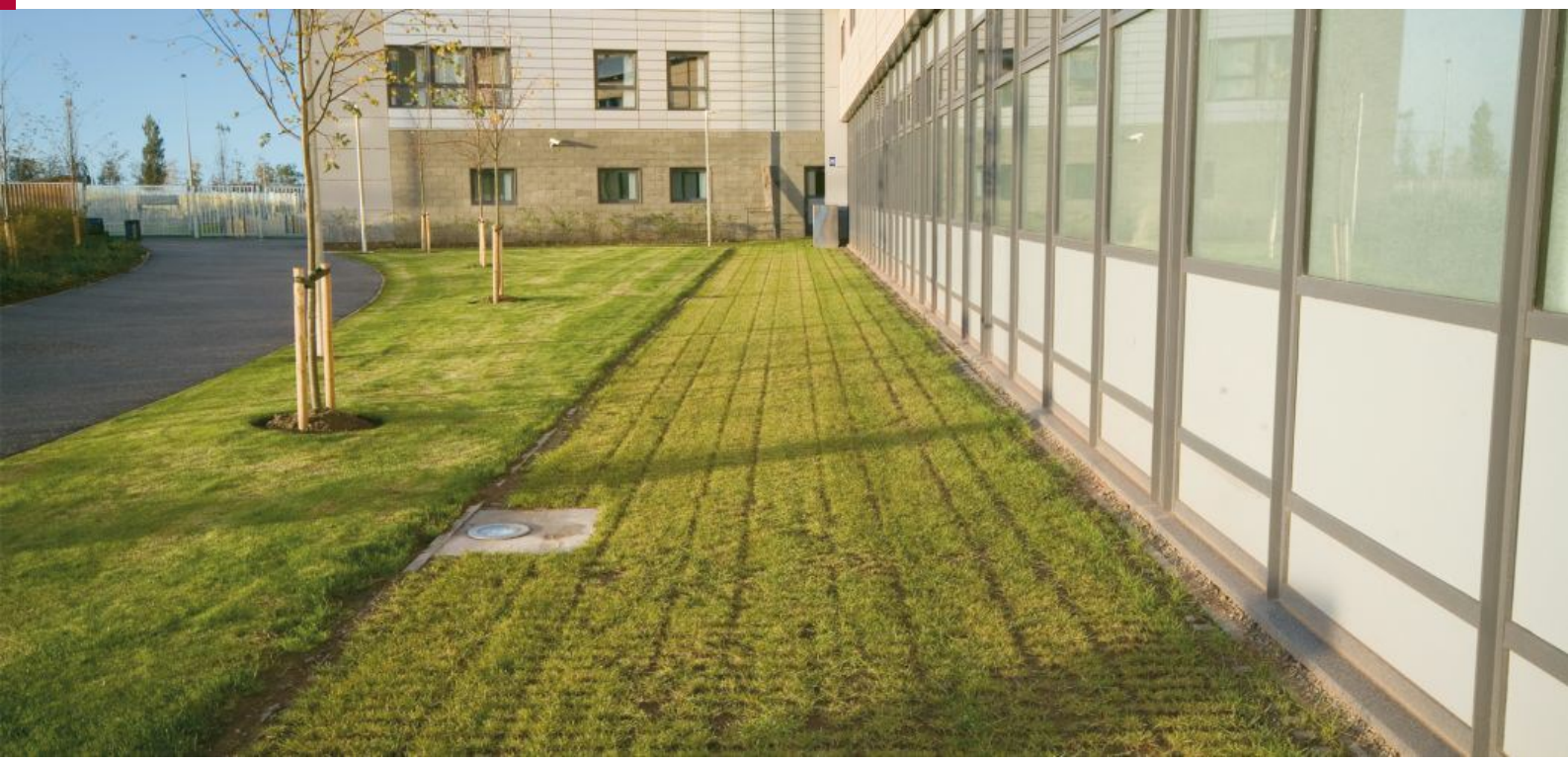
Grassguard 160 600 x 400 x 120

Date Created: 03/05/19



Grassguard Earth Brown

*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.

Combining the strength of concrete with the natural visual appeal of grass, Marshalls' Grassguard Paving minimises soil erosion caused by wheels, wind, water and pedestrian traffic to create a robust and long-lasting paving solution.

An innovative and aesthetically creative paving option, Grassguard not only aids the creative design of a project, but also improves the overall environmental impact.

The ratio of grass to concrete on the surface ensures a pleasing natural aesthetic, while the interlocking concrete grid structure protects the grass as it forms and ensures maximum structural support.

The inherent strength of Grassguard paving improves over time as grass growth becomes established and binds the paving and subgrade together to effectively support heavier loads and ensure the paving retains its durability.

DESCRIPTION		
Appearance	Solid unit with profiled surface	
Manufacturing Process	Semi dry pressed & vibrated concrete	
Base Raw Material	Concrete	
Governing Manufacturing Standards	In-house Company Specification	
NBS Specification	Q24 124 Q24 128	Q24 126

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PHYSICAL PROPERTIES

Tolerances	Minimum (mm)	Maximum (mm)
Length		
Width	397	403
Thickness	115mm	125mm
Work Dimensions (mm)	600 x 400 x 120	
Nominal Dimensions (mm)	600 x 400 x 120	
Tolerances on Work Dimensions (mm)	Length +3 -5mm, width +3 -5mm, height +3 -5mm	
Abrasion Resistance (mm)	≤ 23mm (Wide Wheel Abrasion Test)	
Durability (Freeze-thaw)	≤ 1.0 kg/m² as a mean with no individual value > 1.5 kg/m²	
Material Density	2300 kg/m³ (typically)	
Slip/Skid Resistance (polished)	NAMean 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	
Tensile Splitting Strength	Characteristic tensile splitting strength not less than 3.6 MPa. None of the individual results shall be less than 2.9 MPa, nor have a failure load less than 250N/mm of splitting length	

SPECIFICATION

Emission of Asbestos	No content
External Fire Performance	Deemed to satisfy. See commission decision 2000/553/ECU
Reaction to fire	Class A1, see commission decision 2000/605/EC

SUSTAINABILITY

Breeam	These units can achieve an "A" rated system when used in conjunction with the correct sub-base components
Carbon Footprint	19 kg CO2 m²

SUPPLY

Packaging	All packs are shrinkwrapped onto pallets for fork off-load or crane off-load if necessary

FURTHER INFORMATION

Cleaning & Maintenance	Cleaning & maintenance details are 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	Marshalls reserve the right to amend the technical information as deemed necessary and in accordance with the relevant national and international standards without notice. 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
Contact Us	For technical information on the design, specification and construction when utilising the product, contact the Technical Advisory Services Department on 0370 411 2233