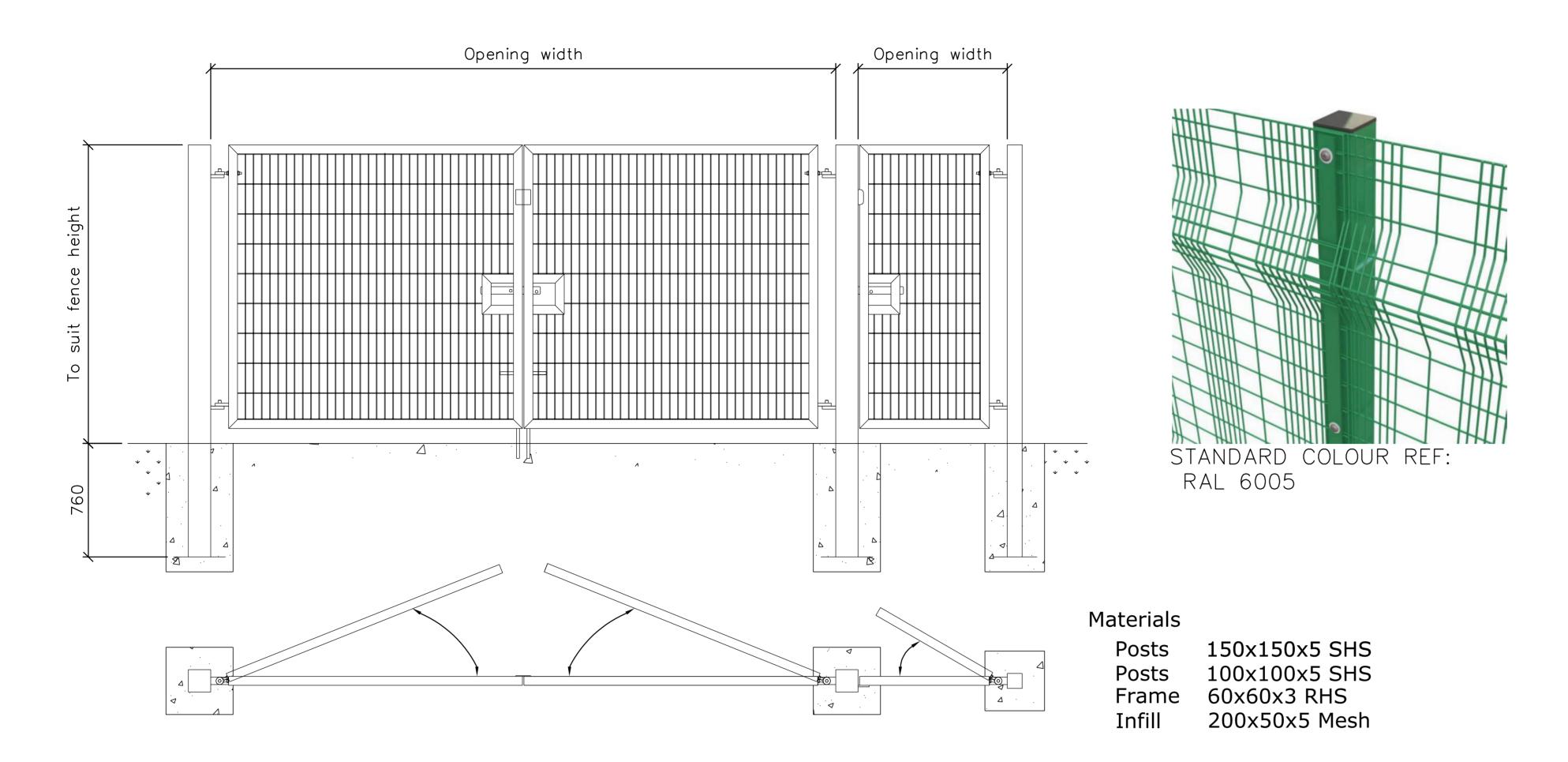
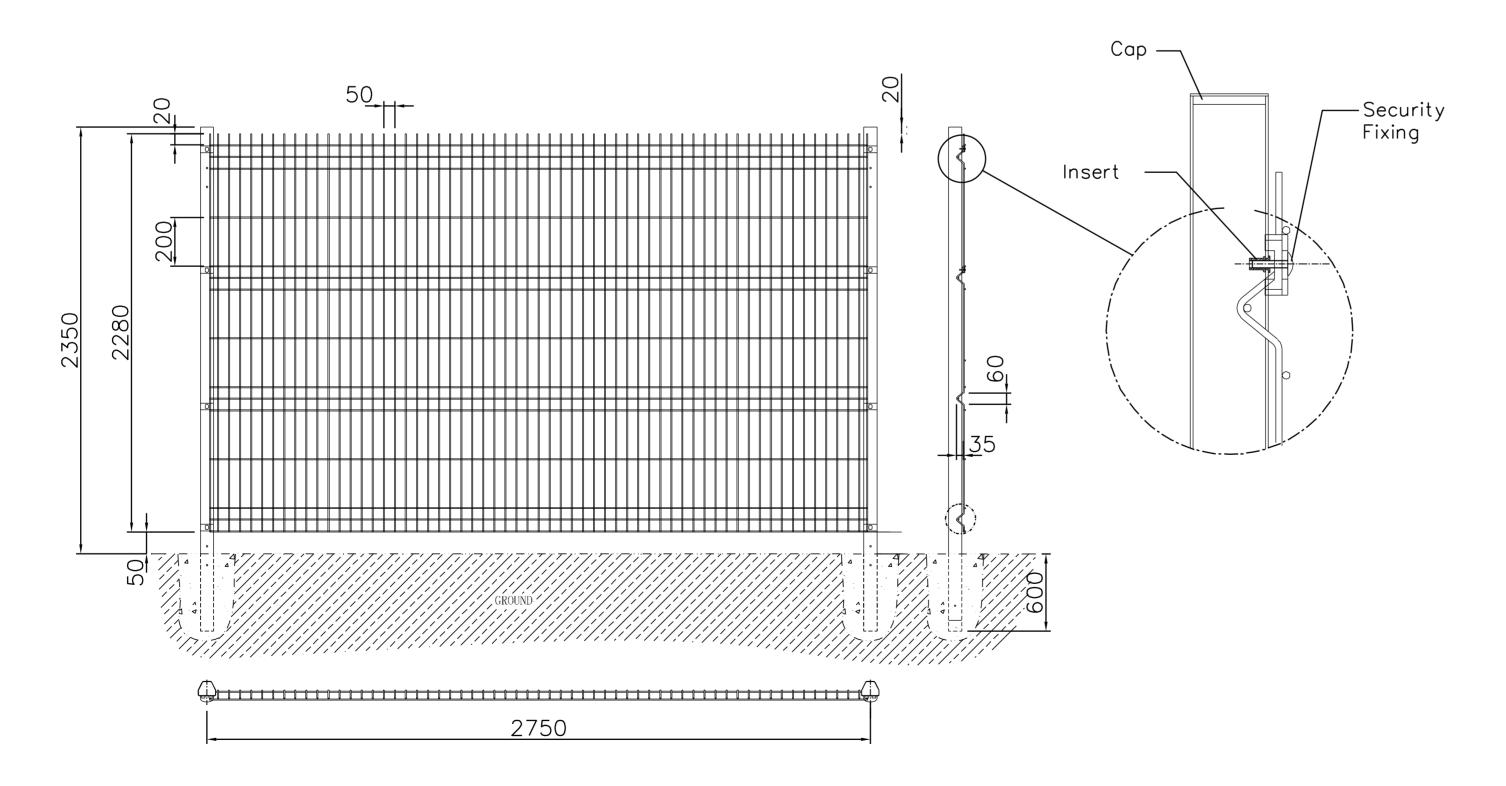
NYMNPA 11/04/2023



DOUBLE LEAF GATES AND SINGLE LEAF GATE — WELDED MESH



2.4M HIGH PRO-MESH PANEL PALADIN FENCE

The InHaus Group

The InHaus Group Ltd
Architects & Interior Designers

89 Walkergate Beverley East Yorkshire <u>HU17 9BP</u>

Tel: 07974 402177 email: admin@inhausgroup.co.uk

Company Reg. No.: 12366438

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Revisions:

Client:Paul Clemitshaw

Project:ENTERPRISE WAY
WHITBY BUSINESS
PARK

Drawing Title:As Proposed:
EXTERNAL
FENCE & GATES
DETAILS

Scale : 1:20 @A1

Date :

Drawn: InHaus

Issue :













BIN STORE TO BE CONSTRUCTED USING GALVANISED METAL AND TREATED TIMBER. COLOURS WILL BE NATURAL TO HELP BLEND THE STRUCTURE IN TO ITS SURROUNDINGS.

SIZE WILL VARY DEPENDING ON REQUIREMENTS.







Tel: 07974 402177 email: admin@inhausgroup.co.uk

Company Reg. No.: 12366438

Revisions:

Client:-Paul Clemitshaw

Project:-

ENTERPRISE WAY WHITBY BUSINESS PARK

Drawing Title:-

As Proposed: COMMERCIAL TIMBER **BIN STORE** INFORMATION

Scale : NTS Date :

Drawn: InHaus

Issue :

Call now for a free visit and consultation on 0870 600 2425

Pluto



Pluto Cycle Shelter



Pluto Cycle Shelter



Pluto Cycle Shelter

Pluto is an extremely functional and robust shelter and can be installed in confined spaces. It can accommodate 10 cycles or motorcycles. The single shelter has a modular capability allowing it to be extended to create a compound for up to 100+ cycles.

- · Height: 2179mm
- · Length: 4000mm
- Width: 2127mm
- · Stores 10 cycles as a single shelter but can be extended to store 100+ cycles
- Available finishes are;
- galvanised
- · galvanised and powder coated or
- · zinc rich primer and powder coated (comes with 10 year warranty)
- Surface fixing available
- PET Cladding
- · For cycle stands and racks see page 11

Product supplied and installed from £1,537



11/04/2023

NYMNPA

Revisions:

Paul Clemitshaw

The InHaus Group Ltd Architects & Interior Designers

Beyerley East Yorkshire

Tel: 07974 402177

Company Reg. No.: 12366438

Project:-

ENTERPRISE WAY WHITBY BUSINESS PARK

Drawing Title:-

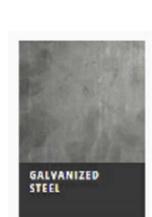
As Proposed: external BYCICLE SHELTER INFORMATION

Scale : NTS Date :

Drawn: InHaus

Issue :

Dwg No: EW / 415



PRODUCT SPECIFIED FROM MARSHALLS.



STANDARD CONCRETE KERB & BLACK TARMAC



LUNAR ICE

BLISTER TACTILE STANDARD -NATURAL



BLISTER TACTILE STANDARD -



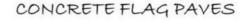
BLISTER TACTILE STANDARD - RED

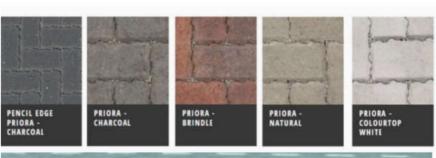


LUNAR SILVER DUST











PERMEABLE BLOCK PAVES - PRIORA

NYMNPA

11/04/2023

The InHaus Group
The InHaus Group Ltd
Architects & Interfor Designers

89 Walkergate Beyerley East Yorkshire HU17 9BP

Tel: 07974 402177

emaii : aamineinnausgroup.co.ui Company Reg. No.: 12366438

ng:-Drawing is conveight of InHaus Solutions and

or to the commencement of work.

Revisions:

Client:-Paul Clemitshaw

Proiect

ENTERPRISE WAY WHITBY BUSINESS PARK

Drawing Tifle:-As Proposed: EXTERNAL HARD

LANDSAPING MATERIALS

Scale : NTS
Date :

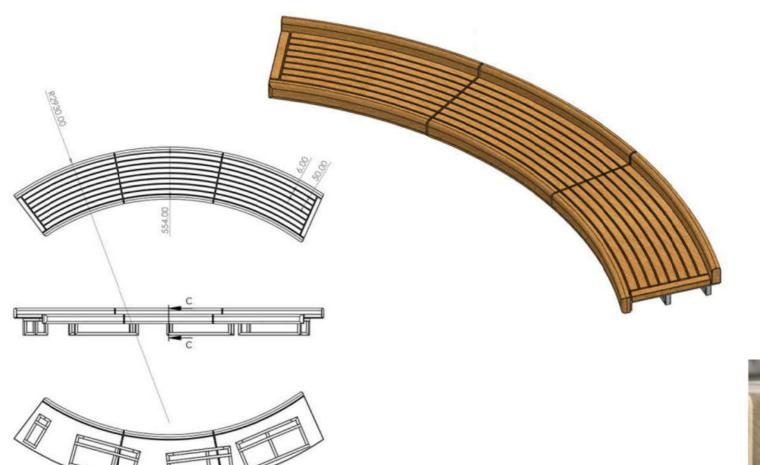
Drawn: InHaus

Issue :

Dwg No: EW / 418

All PRODUCTS ARE SPECIFIED FROM MARSHALLS. ALL AVAILABLE PRODUCT DATA SHEET SUBMITTED WITH PLANNING ISSUE..

COLLECTION







The InHaus Group Ltd Architects & Interior Designers

Tel: 07974 402177 email: admin@inhausgroup.co.uk

Company Reg. No.: 12366438

NYMNPA

11/04/2023



All EXTERNAL SEATING WILL BE CONSTRUCTED FROM TIMBER AND GALVANISED METAL. EXACT DETAILING AND MEASUREMENTS WILL BE PRODUCED AT A LATER STAGE, BUT WILL INCLUDE THE AESTHETIC STYLE OF THE SEATING CONTAINED WITHIN THIS DOCUMENT.



Revisions:

Paul Clemitshaw

Project:-

ENTERPRISE WAY WHITBY BUSINESS PARK

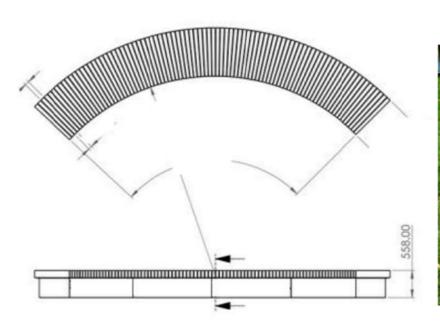
Drawing Title:-

As Proposed: EXTERNAL SEATING TYPICAL DESIGN INFORMATION

Scale : NTS Date :

Drawn: InHaus

Issue :





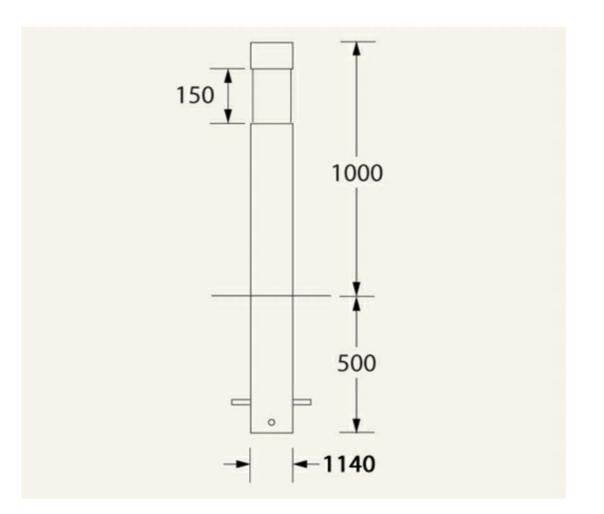


NYMNPA

11/04/2023



PRODUCT SPECIFIED FROM MARSHALLS.
COLOUR SPEC: STAINLESS STEEL AND REFLECTIVE YELLOW.





The InHaus Group Ltd Architects & Interior Designers

> 89 Walkergate Beyerley East Yorkshire <u>HU17 9BP</u>

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Revisions:

Client:-

Paul Clemitshaw

Project:-

ENTERPRISE WAY WHITBY BUSINESS PARK

Drawing Title:-

As Proposed: EXTERNAL BOLLARD DETAILS

Scale : NTS

Date :

Drawn: InHaus

Issue :



Landscape House, Premier Way, Lowfields Business Park, Elland HX5 9HT Tel: 0333 000 20 50 www.marshalls.co.uk/commercial

T: 01422 312000 F: 01422 312943 E: advisoryservices@marshalls.co.uk

125 x 150 Bullnosed Kerb

Date Created: 10/05/18



British Standard Grey Kerb

This sleek, highly durable and precision-manufactured concrete kerb system has been incorporated into highway schemes up and down the UK. British Standard Kerb uses hydraulic pressing in the manufacture of standard natural kerb, channel and edging to provide consistent long-term performance.

Manufactured to the dimensions required in BS EN 1340:2003, this product is available with a wide range of ancillary products to allow for seamless integration with a minimum of cuts.

Marshalls' commitment to quality means you can be confident that you're installing concrete kerb units that adhere to strict guidelines as well as having great aesthetics.

DESCRIPTION	
Appearance	Solis unit with pimple 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
CE Marking/DOP	https://www.marshalls.co.uk/dop
NBS Specification	Q10 112 Q10 10 Q10 510

NYMNPA 11/04/2023













BUSINESS IN THE COMMUNITY















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T: 01422 312000 F: 01422 312943 E: advisoryservices@marshalls.co.uk

125 x 150 Bullnosed Kerb

Date Created: 10/05/18

PHYSICAL PROPERTIES	
Work Dimensions (mm)	125 x 150 x 915
Tolerances on Work Dimensions (mm)	Length ±3mm, width ±3mm, thickness ±3mm
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)	Mean polished skid resistance value (PSRV) : > 45
Slip/Skid Resistance (unpolished)	Mean unpolished skid resistance value (USRV) : > 45.
Transverse/FlexuralSplit/Breaking	Characteristic bending strength of 3.5 MPa with no individual result less than 2.8 MPa

SPECIFICATION		
Approx unit weight (kg)	42	
Emission of Asbestos	No content	
External Fire Performance	Deemed to satisfy. See commission decision 2000/553/ECU	
Reaction to fire	Class A1, see commisson decision 2000/605/EC	

APPLICATION	
Suitability	Laid in accordance with BS 7533-6 : 1999

FURTHER INFORMATION	1
Cleaning & Maintenance	Information regarding the cleaning & maintenance of this product may be obtained 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. Marshalls 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 the Technical Advisory Services Department on 0370 411 2233







Fair Tax



















Landscape House, Premier Way, Lowfields Business Park, Elland HX5 9HT Tel: 03704 11 22 33

F: 01422 312943 E: grouptechnicalservices@marshalls.co.uk W: www.marshalls.co.uk/commercial

T: 01422 312000

Lunar 600 x 400 x 80

Date Created: 23/09/22











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.

Lunar is an innovative, contemporary addition to our established concrete paving portfolio, available in a carefully curated range of four colours and five sizes. Developed with UK designers, our unique granite-inspired blends are brought to life through a patented colour application - creating a multi-hued, subtle and elegant asethetic. Lunar block pavers are available in a smooth finish with pencil chamfered edges, creating a modern yet timeless classic look, perfect for both pedestrianised and trafficked areas.

DESCRIPTION	
Manufacturing Process	Semi dry pressed & vibrated concrete
Base Raw Material	Concrete
Governing Manufacturing Standards	All data where relevant to be established in accordance with BS EN 1339 : 2003
Туре	Two part unit with standard finish surface integral spacers and straight edge
UKCA Marking/DOP	https://www.marshalls.co.uk/declarations
NBS Specification	Q24 10,Q24 110,Q24 112,Q24 113,Q25 120,Q25 125,Q25 220,Q25 315



Date Created: 23/09/22



Lunar 600 x 400 x 80

PHYSICAL PROPERTIES	
Work Dimensions (mm)	599 x 399 x 80
Nominal Dimensions (mm)	600 x 400 x 80
Tolerances on Work Dimensions (mm)	Length ±2mm, width ±2mm, thickness ±3mm
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)	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
Transverse/FlexuralSplit/Breaking	Characteristic bending strength of 5.0 MPa with no individual result less than 4.0 MPa

SPECIFICATION	
Approx unit weight (kg)	44
External Fire Performance	Deemed to satisfy when used for roofing
Reaction to fire	Class A1 when used for internal flooring
Materials Control	UKCA Marked to BS EN 1338 : 2003 and 1339 : 2003

SUSTAINABILITY	
Breeam	These units can achieve an "A" rated
	system when used in conjunction with
	the correct sub-base components

APPLICATION

Suitability

For any given application, any resulting soiling (whether vehicular or pedestrian origin) will be more apparent on the Ice and Rosa colours than any darker shades and alternative colours, so careful consideration should be given when selecting colour in relation to application. Therefore, consideration should be given to any possible additional maintenance requirements, to ensure a desirable and acceptable appearance is provided.

SITE WORKS		
Coverage (m2)		4 no per m ²
SUPPLY		
Pack Size (m ²)		8.64
Units Per Pack		36
Av. pack weigh	t (kg)	1656
FURTHER INFORMATION		
Cleaning & Maintenance	Available on i	request

FORTIER 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

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 Marshalls reserve the right to amend the technical Evolution 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 Group Technical Services on 0370 411 2233

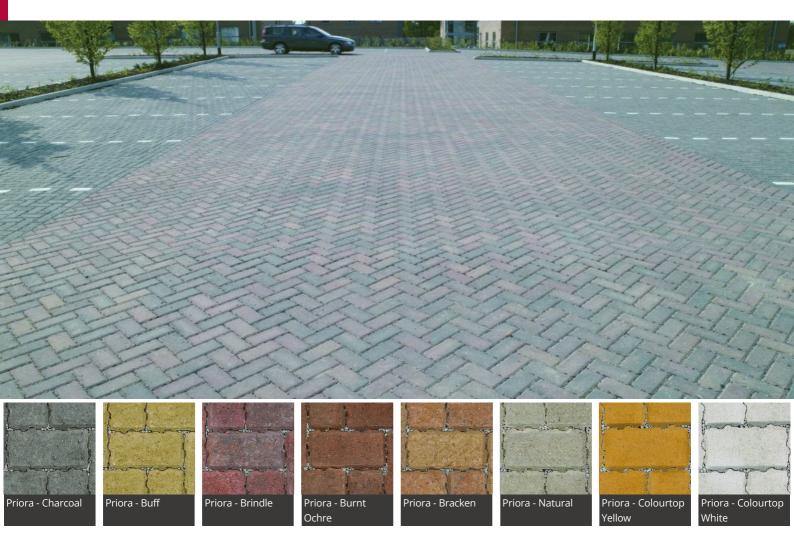
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T: 01422 312000

Priora 200 x 100 x 80

Date Created: 03/08/22



Priora is Marshalls original Concrete Block Permeable Paving (CBPP) system, and the best-selling system of its type in the UK. Combining the ever-popular aesthetics of Keyblok block paving with a source-control SuDS solution, Priora paving not only looks great but also mitigates flood risk, removes surface water, and improves water quality without the need for additional linear drainage systems.

Manufactured in Mainland Britain, the Priora system from Marshalls has been proven for over 15 years of successfully installed projects. The innovative nib on the edge of the Priora blocks creates voids for the water to fall into a specially prepared sub-base. The block design also provides 40% more interlock than standard block paving, helping to enhance surface stability. A variety of laying patterns can be achieved using the 200x100 blocks, and as long as the sub-base is installed to Marshalls specification, Priora is suitable for all loading requirements.

There are different surface profiles available, each with their own properties to suit your requirements; these include Standard, Pencil Edge, and Colourtop. Standard Priora has chamfered edges to minimise spalling and create a classical aesthetic. Pencil Edge Priora minimises the chamfer to provide a smoother, flatter surface, which helps to minimise vibration and surface noise from the wheeled traffic that uses it, making

DESCRIPTION	
Appearance	Solid unit with integral spacers intended to create 6mm drainage apertures
Governing Manufacturing Standards	All data where relevant to be established in accordance with BS EN 1338 : 2003
Туре	Solid permeable unit with integral spacers
UKCA Marking/DOP	https://www.marshalls.co.uk/declarations
NBS Specification	Q24 115

Date Created: 03/08/22



Priora 200 x 100 x 80

it an ideal paving product for car parks and cycleways. Colourtop Priora is perfect for delineation between parking bays and road lanes, as well as for permanent floor signage.

- Manufactured in Mainland Britain.
- Part of UK's best-selling permeable block paving range.
- 40% more interlock than standard blocks.
- Also available in a non-permeable option.

PHYSICAL PROPERTIES	
Work Dimensions (mm)	199 x 99 x 80
Nominal Dimensions (mm)	200 x 100 x 80
Tolerances on Work Dimensions (mm)	Length ±2mm, width ±2mm, thickness ±3mm
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
Slip/Skid Resistance (polished)	PSRV > 45
Slip/Skid Resistance (unpolished)	USRV > 45.
Thermal Conductivity (K value)	Design data as defined to BS EN 13369
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

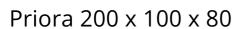
SPECIFICATION	
Approx unit weight (kg)	3.5
External Fire Performance	Deemed to satisfy when used for roofing
Reaction to fire	Class A1 when used for internal flooring

SUPPLY	
Pack size (m ²)	6.2
Av. pack weight (kg)	1040
Packaging	All packs are shrinkwrapped onto pallets for fork off-load or crane off-load if necessary
FURTHER INFORMATION	١
FURTHER INFORMATION 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

specification and construction when utilising the product, contact Group Technical Services on 0370 411 2233



Date Created: 03/08/22



SUSTAINABILITY	
Breeam	These units can achieve an "A" rated system when used in conjunction with the correct sub-base components
Carbon Footprint	
Priora 200 x 100 x 80 Charcoal	20 kg CO2 m²
Priora 200 x 100 x 80 Buff	20 kg CO2 m²
Priora 200 x 100 x 80 Brindle	20 kg CO2 m ²
Priora 200 x 100 x 80 Burnt Ochre	20 kg CO2 m ²
Priora 200 x 100 x 80 Bracken	20 kg CO2 m ²
Priora 200 x 100 x 80 Natural	kg CO2
Priora Colourtop 200 x 100 x 80 Yellow	24 kg CO2 m²
Priora Colourtop 200 x 100 x 80 White	24 kg CO2 m²

APPLICATION

Loading Classification

Marshalls Priora Design Category 10: 1000 HGVs per week or 15 msa. This is subject to using the appropriate installation method, bond pattern and sub base design.

Landscape House, Premier Way, Lowfields Business Park, Elland HX5 9HT

F: 01422 312943 E: grouptechnicalservices@marshalls.co.uk W: www.marshalls.co.uk/commercial

T: 01422 312000

Standard Pimple 300 x 300 x 50

Date Created: 24/11/22





Available in a range of colour and size options, Marshalls' Standard Pimple Paving provides a durable, functional and flexible paving solution that excels in urban environments.

With innovative fibre technology and raised pimples on its surface, Marshalls' Standard Pimple Paving offers maximum skid and slip resistance, and goes beyond industry standards for hardwearing stone.

Available in a range of thicknesses catering for different loading requirements, Standard Pimple Paving is an ideal choice for areas with high pedestrian traffic - such as train stations and urban park spaces. Marshalls' Standard Pimple Paving complies with BS EN 1339:2003.

DESCRIPTION	
Appearance	Solid unit with pimple 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 1339 : 2003
Туре	Solid unit with pimple surface
UKCA Marking/DOP	https://www.marshalls.co.uk/declarations
NBS Specification	Q25 315

SITE WORKS



Date Created: 24/11/22



Standard Pimple 300 x 300 x 50

PHYSICAL PROPERTIES	
Work Dimensions (mm)	298 x 298 x 50
Nominal Dimensions (mm)	300 x 300 x 50
Tolerances on Work Dimensions (mm)	Length ±2mm, width ±2mm, thickness ±3mm
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)	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
Transverse/FlexuralSplit/Breaking	Characteristic bending strength of 4.0 MPa with no individual result less than 3.2 MPa

SPECIFICATION	
Approx unit weight (kg)	11
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
Materials Control	UKCA Marked to BS EN 1339 : 2003 Concrete Flags

SUSTAINABILITY	
Breeam	These units can achieve an "A" rated system when used in conjunction with the correct sub-base components
Carbon Footprint	13 kg CO2

Suitability Laid in accordance with BS7533-4 : 2006 Category 6 - 0.5msa Adopted highways and commercial/industrial developments used by a moderate number of commercial vehicles. Pedestrian areas subjected to regular overrun of commercial vehicles. Industrial premises. Petrol station forecourts.	APPLICATION	
and commercial/industrial developments used by a moderate number of commercial vehicles. Pedestrian areas subjected to regular overrun of commercial vehicles. Industrial premises.	Suitability	Laid in accordance with BS7533-4: 2006
	Loading Classification	and commercial/industrial developments used by a moderate number of commercial vehicles. Pedestrian areas subjected to regular overrun of commercial vehicles. Industrial premises.

Coverage (m2)	11
SUPPLY	
Units Per Pack	40
Av. pack weight (kg)	440
Packaging	All packs are suitable for crane off-load
FURTHER INFORMATION	l
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. Marshalls 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

Landscape House, Premier Way, Lowfields Business Park, Elland HX5 9HT Tel: 03704 11 22 33 https://www.marshalls.co.uk/commercial

T: 01422 312000 F: 01422 312943

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Tactile Blister 400 x 400 x 50

Date Created: 08/02/19











Created to aid visually impaired and blind people as they navigate towns and cities on foot, Blister Tactile Flag Paving makes it easier to identify where drop kerbs and appropriate road-crossing places are located.

The raised blister pattern can be felt underfoot, while those with less severe sight loss can also use the product's colour coding to access extra information about their surroundings.

Red Blister Tactile Flag Paving is laid at controlled crossing points, while the same product in buff is found at uncontrolled crossing points. Alternatively, natural and charcoal units are permitted in some types of conservation areas.

DESCRIPTION		
Appearance	Solid unit with profiled surface	
Manufacturing Process	Hydraulically pressed concrete	
Base Raw Material	Concrete	
Governing Manufacturing Standards	All data where relevant manufactured, but not in compliance, to BS EN 1339 : 2003, as the tactility of paving is excluded from the Scope	
NBS Specification	Q25 31 Q25 320	





















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Date Created: 08/02/19

Tactile Blister 400 x 400 x 50

Tolerances Minimum (mm) Maximum (mm) Length 396 400 Width 396 400 Thickness 47 53 Work Dimensions (mm) Nominal Dimensions (mm) Tolerances on Work Dimensions (mm) Abrasion Resistance (mm) Abrasion Resistance (mm) Silp/Skid Resistance (polished) Slip/Skid Resistance (unpolished) Mean unpolished skid resistance value (USRV): > 45 Thermal Conductivity (K value) Transverse/FlexuralSplit/Breaking Minimum (mm) Maximum (mm) Length 20 Maximum (mm) Length ±2m, width ±2mm, width ±2mm, thickness ±3mm Length ±2mm, width ±2mm, width ±2mm, thickness ±3mm Maximum (Michael Salama) Maximum (Pill Salama) Maximum (mm) Maximum			
Length 396 400 Width 396 400 Thickness 47 53 Work Dimensions (mm) 398 × 398 × 50 Nominal Dimensions (mm) 400 × 400 × 50 Tolerances on Work Dimensions (mm) Abrasion Resistance (mm) 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) 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 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	PHYSICAL PROPERTIES		
Width 396 400 Thickness 47 53 Work Dimensions (mm) 398 x 398 x 50 Nominal Dimensions (mm) 400 x 400 x 50 Tolerances on Work Dimensions (mm) Length ±2mm, width ±2mm, thickness ±3mm 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) 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 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	Tolerances	Minimum (mm)	Maximum (mm)
Thickness 47 53 Work Dimensions (mm) 398 x 398 x 50 Nominal Dimensions (mm) 400 x 400 x 50 Tolerances on Work Dimensions (mm) Length ±2mm, width ±2mm, thickness ±3mm 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) 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 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	Length	396	400
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Nominal Dimensions (mm) 400 x 400 x 50 Tolerances on Work Dimensions (mm) Length ±2mm, width ±2mm, thickness ±3mm 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) 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 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	Thickness	47	53
Tolerances on Work Dimensions (mm) Abrasion Resistance (mm) Solip/Skid Resistance (polished) Slip/Skid Resistance (unpolished) Slip/Skid Resistance (unpolished) Thermal Conductivity (K value) Transverse/FlexuralSplit/Breaking Length ±2mm, width ±2mm, thickness ±3mm Solip ± 23mm (Wide Wheel Abrasion Test) 1.0 kg/m² as a mean with no individual value > 1.5 kg/m² 2300 kg/m³ (typically) 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 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	Work Dimensions (mm)	398 x 398 x 50	
(mm) thickness ±3mm 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) 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 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	Nominal Dimensions (mm)	400 x 400 x 50	
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) 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 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result		8	
individual value > 1.5 kg/m² Material Density 2300 kg/m³ (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 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	Abrasion Resistance (mm)	•	/heel Abrasion
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 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	Durability (Freeze-thaw)	8	
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 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	Material Density	2300 kg/m³ (typically)	
value (USRV): > 45. Thermal Conductivity (K value) Design data as defined to BS EN 13369: 2013 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	Slip/Skid Resistance (polished)	!	
13369 : 2013 Transverse/FlexuralSplit/Breaking Characteristic bending strength of 4.0 MPa with no individual result	Slip/Skid Resistance (unpolished)	·	
4.0 MPa with no individual result	Thermal Conductivity (K value)		
less than 3.2 MPa	Transverse/FlexuralSplit/Breaking	9 9	

SPECIFICATION	
Approx unit weight (kg)	19
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	13 kg CO2 m²

APPLICATION	
Loading Classification	Category 1 - Pedestrian and domestic
	driveways

SITE WORKS	
Coverage	6.25 no per m²
SUPPLY	
Av. pack size (m²)	5.8
Units Per Pack	36
Av. pack weight (kg)	684
Packaging	All packs are suitable for crane off-load Fork lift off-load on request

	Fork lift off-load on request
FURTHER INFORMATION	l .
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	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. Marshalls 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 the Technical Advisory Services Department















on 0370 411 2233





