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Modal X is a premium, contemporary concrete range that offers a mix of different paving formats.

- Twelve versatile plan sizes
- Eight colours and two textures
- Inspired by high quality natural granite
- Higher levels of design flexibility
- Manufactured in Britain using Marshall's' concrete technology

DESCRIPTION	
Appearance	Solid unit with textured/smooth surface and integral spacers with Maxi-Mix Technology
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 1338:2003 (Block) All data where relevant to be established in accordance with BS EN 1339:2003 (Flag)
Installation standards	Laid in accordance with BS 7533-3: 2005+ A1:2009 (Block) & BS7533-4:2006 (Flag)
UKCA marking/DOP	https://www.marshalls.co.uk/dop

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PHYSICAL PROPERTIES

Dimensions (mm)	Work	Nominal
	99 x 99 x 80	100 x 100 x 80
	159 x 119 x 80	160 x 120 x 80*
	159 x 159 x 80	160 x 160 x 80*
	199 x 99 x 80	200 x 100 x 80*
	199 x 199 x 80	200 x 200 x 80*
	299 x 199 x 80	300 x 200 x 80*
	199 x 49 x 80	200 x 50 x 80
	599 x 199 x 80	600 x 200 x 80* (Flag)
	239 x 159 x 80	240 x 160 x 80*
	299 x 99 x 80	300 x 100 x 80
	299 x 299 x 80	300 x 300 x 80
	599 x 299 x 80	600 x 300 x 80 (Flag)

*Priora Available

Approx unit weight (kg)	Unit	Weight
	100 x 100 x 80	2
	160 x 120 x 80	4
	160 x 160 x 80	5
	200 x 100 x 80	4
	200 x 200 x 80	7
	300 x 200 x 80	11
	200 x 50 x 80	2
	600 x 200 x 80	23
	240 x 160 x 80	8
	300 x 100 x 80	6
	300 x 300 x 80	14
	600 x 300 x 80	32

Tolerances on work dimensions (mm)	Length ±2mm, width ±2mm, thickness ±3mm
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Loading classification	We are unable to give specific loading classification as the maximum loading suitability for this product is not applicable on every size and is subject to install method. For further guidance, please contact Technical Advisory Services Department on 0370 411 2233.
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Abrasion resistance (mm)	≤ 23mm (Wide Wheel Abrasion Test)
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Durability (freeze/thaw)	≤ 1.0 kg/m ² as a mean with no individual value ≥ 1.5 kg/m ²
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Material density	2300 kg/m ³ (typically)
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Slip/skid resistance (polished)	Mean polished skid resistance value (PSRV): > 45
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Slip/skid resistance (unpolished)	Mean unpolished skid resistance value (USRV): > 45
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Thermal conductivity (K value)	Design data as defined to BS EN 13369 : 2013
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Facing layer	4mm minimum thickness
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Tensile splitting strength (Block)	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 250 N/mm of splitting length
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Bending strength* (Flag)	Characteristics bending strength of 5.0 MPa with no individual result less than 4.0 MPa
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SPECIFICATION

Emission of asbestos	No content
External fire performance	Deemed to satisfy. See commission decision 2000/553/EU
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
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SITE WORKS

Coverage	Unit	Coverage
	100 x 100 x 80	100 no per m ²
	160 x 120 x 80	52 no per m ²
	160 x 160 x 80	39 no per m ²
	200 x 100 x 80	50 no per m ²
	200 x 200 x 80	25 no per m ²
	300 x 200 x 80	16 no per m ²
	200 x 50 x 80	105 no per m ²
	600 x 200 x 80	8 no per m ²
	240 x 160 x 80	26 no per m ²
	300 x 100 x 80	33 no per m ²
	300 x 300 x 80	11 no per m ²
	600 x 300 x 80	5 no per m ²

SUPPLY

Units per pack	Unit	Per pack
	100 x 100 x 80	576
	160 x 120 x 80	324
	160 x 160 x 80	252
	200 x 100 x 80	378
	200 x 200 x 80	180
	300 x 200 x 80	120
	200 x 50 x 80	528
	600 x 200 x 80	56
	240 x 160 x 80	180
	300 x 100 x 80	216
	300 x 300 x 80	84
	600 x 300 x 80	42

Av. pack weight (kg)	Unit	Weight
	100 x 100 x 80	1152
	160 x 120 x 80	1296
	160 x 160 x 80	1260
	200 x 100 x 80	1360
	200 x 200 x 80	1296
	300 x 200 x 80	1296
	200 x 50 x 80	1056
	600 x 200 x 80	828
	240 x 160 x 80	1440
	300 x 100 x 80	1296
	300 x 300 x 80	1176
	600 x 300 x 80	1344

Packaging	All packs are shrink wrapped onto pallets for fork off-load or crane off-load if necessary
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03704 11 22 33
www.marshall's.co.uk/commercial

T: 01422 312000
F: 01422 312 943
E: grouptechnicalservices@marshall's.co.uk

FURTHER INFORMATION	
Cleaning & maintenance	Cleaning and 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.

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