

PRODUCT TECHNICAL INFORMATION SHEET

PRODUCT NAME : OLDE HENFIELD MULTI - DESIMPEL
REF. CODE : 24250170 (WARNHAM)
DESCRIPTION : RED MULTI
MANUFACTURE : SOFT MUD, MOULDED STOCK
APPEARANCE : SANDED STOCK
CONFIGURATION : FROGGED - MAX 15%
WORK SIZE* : 215 x 102.5 x 65mm


GUARANTEED PROPERTIES EN771-1 : 2003

COMPRESSIVE STRENGTH	:	MIN. 12N/mm²	
WATER ABSORPTION	:	MAX. 15%	
DURABILITY DESIGNATION	:	F2	
ACTIVE SOLUBLE SALTS	:	S2	
SIZE TOLERANCE * (/ RANGE)	:	T1 - R1	
GROSS DENSITY (Tolerance)	:	1630Kg/m³ (D1)	
NET DENSITY (Tolerance)	:	1920Kg/m³ (D1)	
THERMAL CONDUCTIVITY ($\lambda_{10,dry}$)	:	P=90% 0.60W/m.K	
INITIAL RATE OF WATER ABS.	:	1.0Kg/m².minute	
BOND STRENGTH (General Mortar)	:	0.15N/mm² (fixed value)	
REACTION TO FIRE	:	Class A1	
WATER VAPOUR PERMEABILITY (μ)	:	5/10 (tabulated)	
PACK QUANTITY	:	500 no	
PACK SIZE (APPROX. mm)	:	1080 x 860 x 830 H	
TYPICAL PACK WEIGHT	:	1276 Kg	
PACKAGING	:	Shrink Wrapping [YES]	Pallet [NO]

ISSUE : NOVEMBER 2011

Rivendale

fibre cement slates



Sustainability	
Green guide rating	A+ (Element ref. 812410008)
BES 6001	Very good – can achieve 3 credits
Credit uplift available with EPD	
Embodied carbon	Low carbon footprint of 13 CO ₂ e/m ²

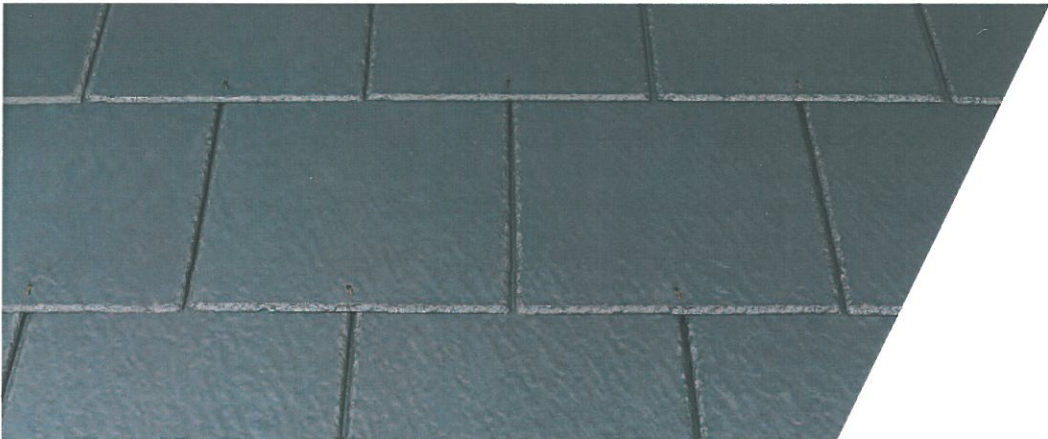


Rivendale, Oakland Village, Swadlincote

Technical data*		
Size of slate	600mm x 300mm	
Minimum pitch**	Moderate exposure	22.5° (100mm lap)
		20° (110mm lap)
	Severe exposure	25° (100mm lap) 22.5° (110mm lap)
Maximum pitch	90°	
Typical laps	100, 110mm	
Maximum gauge	245-250mm	
Slate thickness	4mm	
Covering capacity (net)	13.4 slates/m ² at 100mm lap	
	13.6 slates/m ² at 110mm lap	
Weight of slating (approx.)	20.4 kg/m ² (0.20 kN/m ²) at 100mm lap	
	20.9 kg/m ² (0.20 kN/m ²) at 110mm lap	
Battens required (net)	4.00 lin.m/m ² at 100mm lap	
	4.08 lin.m/m ² at 110mm lap	
Batten size recommended (fixed to BS 5534)	38 x 25mm for rafters/supports not exceeding 450mm centres	
	50 x 25mm for rafters/supports not exceeding 600mm centres	
Fixings	Slate nails (30 x 2.65mm)	
	Copper disc rivets (19mm dia. x 2mm stem)	
Fittings screws	14 gauge self sealing	
Authority	BS EN 492	

* Marley Eternit fibre cement slates meet the strength requirement of BS EN 492, achieving an average bending movement greater than 50 NM/M (Class B). The slates also have a minimum density of 1700 kg/m³ and a nominal thickness of 4mm.

** The minimum recommended pitch and lap may be influenced by special circumstances, please contact the Technical Advisory Service.





In profile

Take a closer look at the new OSMA StormLine profile.

A classic ogee shape: simple, attractive – but with innovative features for extra performance and visual appeal.

The leading edge

The high front edge of the gutter is specifically designed to ensure the safe capture of high volumes of roof run-off under storm conditions.

The upper edge shape also incorporates an inner rail for easy, concealed fixing of support brackets without impeding flow.

To contain and control

Even under extreme conditions, with unusually high run-off rates, the StormLine edge profile and internal ribs will quickly bring rainwater under control and guide it efficiently to the outlet.

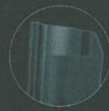


High front edge
To catch and control run-off, and prevent overshoot

Internal rail
To provide forward fixing point for concealed hanging brackets

High capacity
To cope with intense rainfall volumes

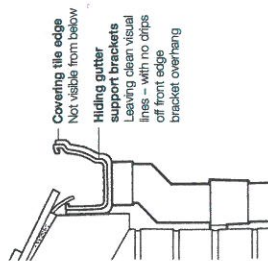
Internal ribs
To help flow through of leaves and debris – and reduce blockages



Visual complement

The high-fronted gutter profile conceals the edge of the roof tiles and also the hanging brackets. The result: clean attractive lines around the roof perimeter to complement and enhance the building's visual appearance.

OSMA StormLine is available in three colours: Black, Brown and White



Covering tile edge
Not visible from below

Hiding gutter support brackets
Leaving clean visual lines – with no dips off front edge

Leaving clean visual lines – with no dips off front edge
Leaving clean visual lines – with no dips off front edge



Meadowstone provides a fully bespoke service in the supply of wet cast products. The Company can also offer a full CAD design facility.

A range of different finishes is available including lightly-etched, sand-blasted and a more heavily exposed aggregate finish.

It is advisable to involve Meadowstone as early as possible in any project due to the longer lead times inherent in the wet cast manufacturing process.

Wet Cast

Applications

Wet cast (also known as precast) products are ideal for use in load-bearing situations or where there is a high degree of environmental exposure. Meadowstone can manufacture a range of large components such as columns and structural units.

Shades

Portland, Bathstone and Natural are usually available as standard shades.



01 Portland



02 Bathstone



08 Natural

As well as the range of the standard shades shown, we are also able to colour match with existing natural or cast stonework - allow an additional 4 weeks for colour matching and sample approval.

Please contact our Sales Office for details.

Colours are as close as the printing process will allow.
Please request colour samples prior to placing an order.

DRIVESETT DUO®

Complementary colours on each side can be blended to suit your property and give a bespoke look



DRIVEWAYS

Drivesett Duo

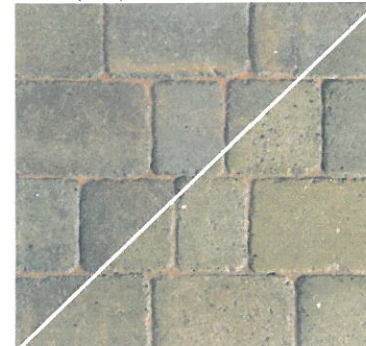
- Classic timeworn appearance creates a traditional look and enhances the character of any property
- Dual faced blocks have a different colour on each side allowing a wide variety of blends to break up the uniformity of colour over larger areas
- 3 block sizes means Drivesett Duo can be laid in random courses
- Suggested blend of sizes is a random mix of 13 large, 18 medium and 3 small blocks per square metre
- Blend blocks from a number of packs to ensure a variegated, multi-shade effect
- Blocks are supplied shrink wrapped. Each pack contains blocks of 1 size only
- Joint filling sand and Keybond are recommended (see p.153)
- You can buy less than full pack quantities if required – minimum quantity is 1 square metre (See 'Order Select' p.161)
- For kerbs and radials please see p.150-151

Cinder (CI)



Terracotta (T)

Heather (HTHR)



Cotswold (C)



Each block is reversible allowing individual design

Drivesett Duo	Sizes mm (nominal)	No./pack	Weight (kg/pack)	Area (m²/pack)	Colours	Order Select	kg CO ₂ per m²
Large	240 x 160 x 50	280	1260	10.76	CI/T, HTHR/C	✓	24
Medium	160 x 160 x 50	420	1260	10.76			
Small	120 x 160 x 50	560	1260	10.76			

A Duo driveway can be as individual as you wish it to be and the colours will always blend perfectly



Tegula Kerb Sett

Concrete Sett Paving

- Single plan size with 6 variable laying configurations.
- Tegula Kerb Setts provide that finishing touch to complement developments where the kerb is both a functional item and critical design feature.
- Typical applications: Civil, Retail, Commercial and Residential Streetscapes.
- Compliant to BS EN 1338:2003.
- Often used to create steps and drainage channels in paved areas

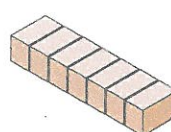
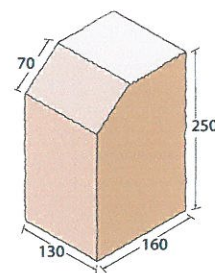
Colours

Precise colour and surface texture should be judged from actual materials rather than photographic representations.

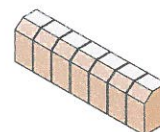


Traditional* Pennant Grey Red/Charcoal Multi Harvest

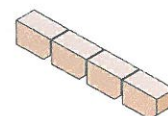
TEGULA KERB SETT LAYING CONFIGURATIONS



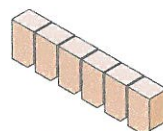
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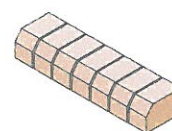
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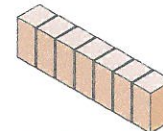
4 No./Lin m



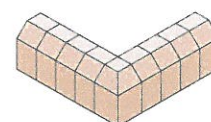
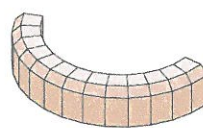
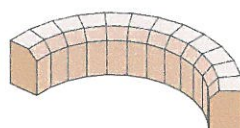
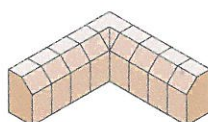
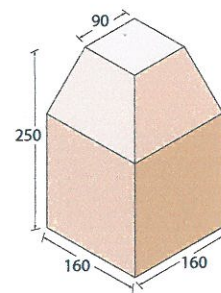
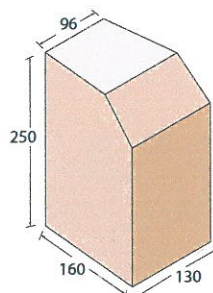
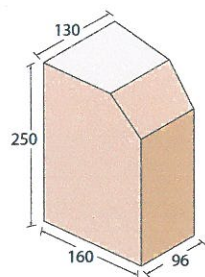
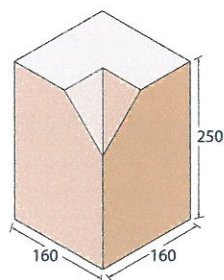
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7.69 No./Lin m



Tegula Kerb Sett	Splay	Plan Size (mm nom.)	Unit Weight (kg approx)	Pack Weight (kg approx)	Traditional (Ref No.)	Pennant Grey (Ref No.)	Red/Charcoal Multi (Ref No.)	Harvest (Ref No.)
	45°	250 x 160 x 130	11.21	1344	PV6360100	PV6360500	PV6360200	PV6360400
90° Angle – Internal	45°		11		PV637030	PV637430		
90° Angle – External	45°		11		PV637040	PV637440		
Radial – Internal	45°		11		PV637020	PV637420		
Radial – External	45°		11		PV637010	PV637410		

Tegula Kerb Sett available ex-stock.

*Suitable for use with Traditional and Burnt Ochre Tegula

FAIRSTONE SAWN SANDSTONE

ETHICALLY SOURCED STONE PAVING



GARDEN PAVING

A smooth contemporary sawn finish, lightly textured for non-slip practicality

- A lightly sandblasted finish improves the slip resistance of what is an apparently smooth surface
- A new fourth colour option, Caramel Cream Multi has been added to the Fairstone Sawn Sandstone range for 2012
- Fairstone Natural Sandstone is carefully sawn to a consistent thickness to ensure speed and precision in installation
- Because these are natural materials cut to size there are occasional minor plan size variations. This can normally be allowed for in the laying pattern but it is recommended that layout is checked 'dry' before jointing
- Though the natural origin of stone means variation in colour is inevitable, Marshalls strives through expert hand selection, to ensure the integrity of colour within each colour range
- The colours shown here are a representative sample and viewing the actual product is recommended
- Marshalls Fairstone Sawn Sandstone Paving is processed and supplied only by proven ethical sources - see page 5 for full details
- Marshalls recommends paving be laid on a full bed of mortar and recommends joint widths between 8-15mm, fully pointed with mortar or brush in Weatherpoint 365 (see p.75)
- Joint widths may vary due to the inherent size tolerance of Sawn Sandstone Paving
- Paving should never be butt jointed
- If used indoors, paving should be sealed with a proprietary water-based acrylic sealant
- If required, you can purchase less than full packs - minimum quantity, single units (see 'Order Select', p.161)

NEW

Fairstone Sawn
Caramel Cream Multi (CCM)Fairstone Sawn
Antique Silver Multi (ASM)Fairstone Sawn
Golden Sand Multi (GSM)Fairstone Sawn
Autumn Bronze Multi (ABM)

The superior stone quality used by Marshalls particularly tolerates a fine grained surface texture that resists dirt, grime and moisture

Fairstone Sawn Paving	Sizes mm (nominal)	No./pack	Weight (kg/each)	Weight (kg/pack)	No./m² *	Colours	Order Select	kg CO ₂ per m²
Sawn Sandstone	845 x 560 x 22	35	29.2	1100	2.1	ABM	✓	45
	560 x 560 x 22	60	19.4	1250	3.1	ASM	✓	
	560 x 275 x 22	120	9.8	1230	6.2	GSM	✓	
	275 x 275 x 22	210	4.8	1060	12.3	CCM	✓	

NEW

11m²*
Project Pack

	Sizes mm (nominal)	No./pack	Weight (kg/each)	Weight (kg/pack)	Colours	kg CO ₂ per m²
	845 x 560 x 22	10	29.2	700	ABM	45
	560 x 560 x 22	13	19.4		ASM	
	560 x 275 x 22	11	9.8		GSM	
	275 x 275 x 22	10	4.8		CCM	

*Assumes nominal 10mm joint width

FAIRSTONE SAWN STEPS

ETHICALLY SOURCED SAWN STONE



GARDEN PAVING

It is the attention to detail that can make the difference to any installation. The Fairstone Sawn Sandstone Steps are introduced to make such a difference

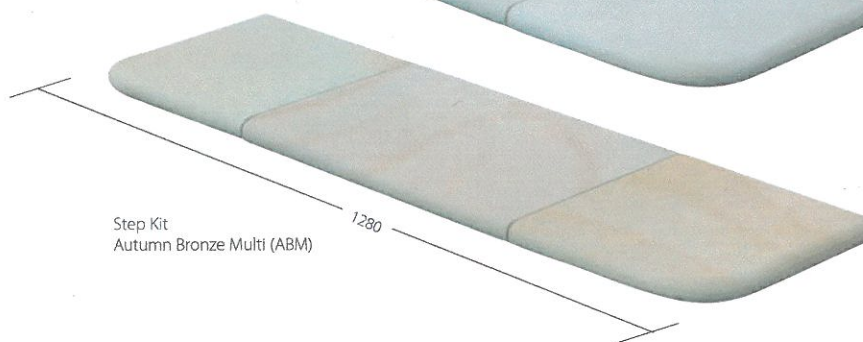
- Each Step Kit comprises 3 pieces, 2 x 350mm x 350mm end pieces with radius corners, a bullnosed front edge and a wider centre stone of 560mm
- Overall standard dimension of each step is therefore 1280mm x 350mm (including nominal 10mm joint)
- Because these are natural materials cut to size there are occasional minor plan size variations. This can normally be allowed for in the laying pattern but it is recommended that layout is checked 'dry' before jointing
- Though the natural origin of stone means variation in colour is inevitable, Marshalls strives through expert hand selection, to ensure the integrity of colour within each colour range
- The colours shown here are a representative sample and viewing the actual product is recommended
- If required you can purchase less than full packs via 'Order Select' (see p.161). (Minimum quantity, single Central Step Pieces or 3 Piece Step Kits)
- Marshalls Fairstone is processed and supplied only by proven ethical sources, see page 5 for more details



Step Kit
Golden Sand Multi (GSM)



Step Kit
Antique Silver Multi (ASM)



Step Kit
Autumn Bronze Multi (ABM)

Beautifully finished Fairstone steps really make a statement with a hand crafted bullnosed edge



Fairstone 10 Step Kit Pack	Sizes mm (nominal)	No./pack	Weight (kg/each)	Weight (kg/pack)	Colours	Order Select	kg CO ₂ per Step
Centre Stone	560 x 350 x 50	10	27	670	ABM	✓	32
Corner Radius	350 x 350 x 50	20	17		ASM GSM		

Step Centre Stone	Sizes mm (nominal)	No./pack	Weight (kg/each)	Weight (kg/pack)	Colours	Order Select	kg CO ₂ per Step
Centre Stone	560 x 350 x 50	30	27	870	ABM ASM GSM	✓	32