

Roofing product catalogue





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Services

Let ME lighten your load

Trust **ME** to take the hassle out of roofing. If you ever need advice on any roofing related issue, you can rely on our team to give you a helping hand.

Call
Email
Or visit

on 01283 722588 at info@marleyeternit.co.uk www.marleyeternit.co.uk/me

Introduction

Marley Eternit's extensive range of tile and slate profiles, dry fix and ventilation systems, fittings and fixings has been successfully enhancing and protecting our roofs for over 100 years.

The scope of product and design we offer is underpinned by the best in customer services. Knowledgeable and friendly staff are available to offer quotations, expert advice, deal with orders and all other enquiries.

Our free Technical Advisory Service provides technical expertise on all aspects of design and installation (see also page 58).

Commitment to our customers is further demonstrated by our Training Centre, at which stockists and roofing contractors learn more about Marley Eternit products and systems through a range of training courses.

Finally, we use a modern fleet of vehicles with mechanical off-loading facilities and professional drivers making sure the product arrives on schedule and in good condition, wherever the site, whatever the weather.

Authority

A⁺

An A+ rating (the lowest environmental impact) in the Building Research Establishment's Green Guide to

Specification 2008 can be achieved using Marley Eternit's clay plain tiles, concrete plain and interlocking tiles and fibre cement slates.

Marley Eternit concrete roof tiles and slates are Kitemark certified as being manufactured to the requirements of BS EN 490 and clay tiles to BS EN 1304. Fibre cement slates are kitemark certified as being manufactured to BS EN 492.

All Marley Eternit factories operate quality management systems to BS EN ISO 9001. They also operate environmental management systems to BS EN ISO 14001, registered by the BSI.

OHSAS 18001 – Certification specification for Occupational Health and Safety Management Systems enables an organisation to create an occupational health and safety (OH&S) management system, control its risks and improve its performance.







Minimum banded quantities

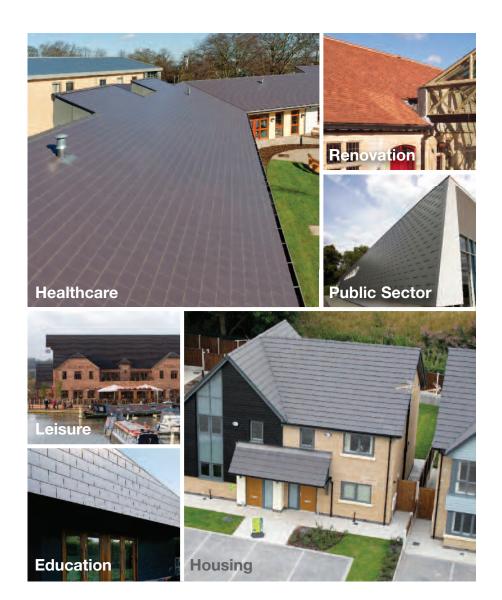
	No. per band	Bands per pallet	Quantity per pallet		No. per band	Bands per pallet	Quantity per pallet
Clay plain tiles				Concrete fittings			
Acme/Hawkins Tiles	12	105	1260	Segmental Ridge tiles	5	24	120
Acme/Hawkins Eaves	15	100	1500	Modern Ridge tiles	5	28	140
Acme/Hawkins Tile and Half	12	63	756	Fibre cement slates			
Ashdowne Tiles	10	105	1050	600 x 300mm slates	15	72	1080
Creasing Tiles*	12	105	1260	600 x 600mm doubles	10	32	320
Concrete tiles				Thrutone 500 x 250mm	20	70	1400
Plain tiles	10	90	900	Thrutone 500 x 500mm doubles	10	32	320
Plain Eaves/Top	10	120	1200				
Plain Tile and Half	10	54	540	Clay interlocking tiles			
Anglia	38	12	456	Sandringham tiles and fittings	48	4	192
Ashmore	6	46	276	Sandringham ridge tiles	2	20	40
Double Roman, Mendip and Wesse.	x 32	6	192	Left hand verge finishing tiles	4	15	60
Edgemere and Duo Edgemere	40	6	240	Domino tiles	4	60	240
Ludlow Major	36	6	216	Domino ridge tiles	5	12	60
Ludlow Plus	43	12	516	Domino Half tile	4	48	192
Melbourn	12	56	672	Left Hand verge finishing tiles	4	25	100
Melbourn Slate and Half	8	24	192	- 0			
Melbourn Double	8	20	160				
Modern and Duo Modern	32	6	192				

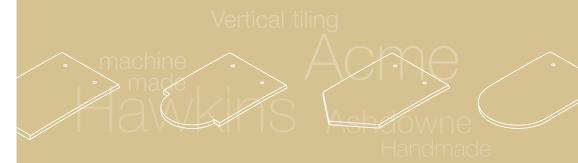
^{*} Available as full pallets only

2 | Introduction www.marleyeternit.co.uk www.marleyeternit.co.uk | 3

Market sectors

From housing to healthcare and education to sports centres, small element roofing can be used to create unique roofing solutions.





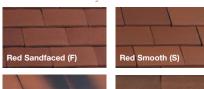
Clay plain tiles

Acme single camber

Natural clay, machine made, single cambered (longitudinal) plain tiles, offering crisp, contemporary lines and the warmth and character of clay at an affordable price.



Colour availability









Farmhouse Brown Sandfaced (F)



(S) Smooth finish



BS EN 1304

Acme single camber feature tiles

Available in a range of colours and shapes. For advice on the use of Feature tiles in main roof areas



† Made to order



Bullnose[†]

Technical data

Size of tile	265mm x 165mm
Minimum pitch*	30°
Maximum pitch	90°
Minimum headlap	65mm (roof) 37.5mm (vertical)
Maximum gauge	100mm (roof) 115mm (vertical)
Cover width	165mm (nominal)
Covering capacity (net)	60 tiles/m² at 100mm gauge (roof) 53 tiles/m² at 115mm gauge (vertical)
Weight of tiling (approx.)	64kg/m² (0.63 kN/m²) at 100mm gauge (roof) 56kg/m² (0.55 kN/m²) at 115mm gauge (vertical)
Battens required (net)	10.0 lin.m/m² at 100mm gauge (roof) 8.7 lin.m/m² at 115mm gauge (vertical)
Batten size recommended (fixed to BS 5534)	38 x 25mm for rafters/ supports not exceeding 600mm centres
Tile nails	38mm x 2.65mm
Authority	BS EN 1304

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



Hawkins

Single cambered (longitudinal), machine made clay tile, manufactured for over 150 years. This heritage, combined with modern firing techniques, gives a unique colour range.

Technical data

Size of tile	265mm x 165mm
Minimum pitch*	30°
Maximum pitch	90°
Minimum headlap	65mm (roof) 37.5mm (vertical)
Maximum gauge	100mm (roof) 115mm (vertical)
Cover width	165mm (nominal)
Covering capacity (net)	60 tiles/m² at 100mm gauge (roof) 53 tiles/m² at 115mm gauge (vertical)
Weight of tiling (approx.)	64kg/m² (0.63 kN/m²) at 100mm gauge (roof) 56kg/m² (0.55 kN/m²) at 115mm gauge (vertical)
Battens required (net)	10.0 lin.m/m² at 100mm gauge (roof) 8.7 lin.m/m² at 115mm gauge (vertical)
Batten size recommended (fixed to BS 5534)	38 x 25mm for rafters/ supports not exceeding 600mm centres
Tile nails	38mm x 2.65mm
Authority	BS EN 1304

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



Colour availability









Key (F) Fine Sanded finish (S) Smooth finish

Fired Sienna finish

Irregularities and imperfections in this new surface finish achieve the appearance of a weathered reclaimed tile with all the benefits of a precision-engineered clay tile.



BS EN 1304

Hawkins feature tiles

Available in Staffordshire Blue.

For advice on the use of Feature tiles in main roof areas contact the Technical Advisory Service.



Bullnose[†]

† Made to order

Clay plain tiles www.marleyeternit.co.uk www.marleyeternit.co.uk Clay plain tiles | 7

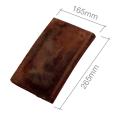
Acme double camber

Natural clay, machine made clay plain tiles with longitudinal and latitudinal camber able to create highly textured roofscapes with accentuated light and shade.



Ashdowne

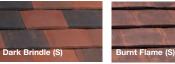
Handcrafted clay plain tiles offer a warm, mellow appearance, with a granular texture and slight random irregularities that make each tile unique.



Colour availability







Acme single camber feature tiles

Suitable for double camber and available in a

For advice on the use of Feature tiles in main roof areas

Bullnose[†]

burnished finish to suit all colours.

contact the Technical Advisory Service.

Key (F) Fine Sanded finish (S) Smooth finish

BS EN 1304

Club[†]

† Made to order

Technical data

room noar data	
Size of tile	265mm x 165mm
Minimum pitch*	35°
Maximum pitch	90°
Minimum headlap	65mm (roof) 37.5mm (vertical)
Maximum gauge	100mm (roof) 115mm (vertical)
Cover width	165mm (nominal)
Covering capacity (net)	60 tiles/m² at 100mm gauge (roof) 53 tiles/m² at 115mm gauge (vertical)
Weight of tiling (approx.)	64kg/m² (0.63 kN/m²) at 100mm gauge (roof) 56kg/m² (0.55 kN/m²) at 115mm gauge (vertical)
Battens required (net)	10.0 lin.m/m² at 100mm gauge (roof) 8.7 lin.m/m² at 115mm gauge (vertical)
Batten size recommended (fixed to BS 5534)	38 x 25mm for rafters/ supports not exceeding 600mm centres
Tile nails	38mm x 2.65mm
Authority	BS EN 1304

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



Technical data

16011110ai uata	
Size of tile	265mm x 165mm
Minimum pitch*	35°
Maximum pitch	90°
Minimum headlap	65mm (roof) 37.5mm (vertical)
Maximum gauge	100mm (roof) 115mm (vertical)
Cover width	165mm (nominal)
Covering capacity (net)	60 tiles/m² at 100mm gauge (roof)
	53 tiles/m² at 115mm gauge (vertical)
Weight of tiling (approx.)	75kg/m² (0.74 kN/m²) at 100mm gauge (roof)
	66kg/m² (0.65 kN/m²) at 115mm gauge (vertical)
Battens required (net)	10.0 lin.m/m² at 100mm gauge (roof)
	8.7 lin.m/m² at 115mm gauge (vertical)
Batten size recommended (fixed to BS 5534)	38 x 25mm for rafters/ supports not exceeding 600mm centres
Tile nails	38mm x 2.65mm
Authority	BS EN 1304

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



Colour availability









Key (F) Fine Sanded finish



Ashdowne feature tiles

Available in a range of colours and shapes.

For advice on the use of Feature tiles in main roof areas contact the Technical Advisory Service.

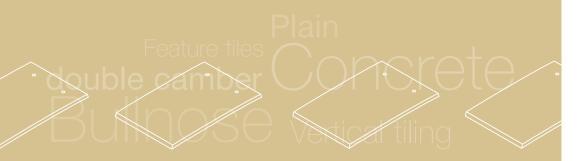


Bullnose[†] † Made to order



BS EN 1304

Clay plain tiles www.marleyeternit.co.uk www.marleyeternit.co.uk Clay plain tiles | 9



Concrete plain tiles

Plain

The authentic cross camber design of the Marley Etemit concrete plain tile gives it a look to match its outstanding versatility.



Technical data

rechnical data	
Size of tile	267mm x 168mm
Minimum pitch*	35°
Maximum pitch	90°
Minimum headlap	65mm (Roof) 37.5mm (Vertical)
Maximum gauge	100mm (Roof) 115mm (Vertical)
Profile depth	d < 5mm
Cover width (nomina	l) 168mm
Covering capacity (net)	60 tiles/m² at 100mm gauge (Roof)
	53 tiles/m² at 115mm gauge (Vertical)
Weight of tiling (approx.)	73.8kg/m² (0.72 kN/m²) at 100mm gauge (Roof)
	58kg/m² (0.57 kN/m²) at 115mm gauge (Vertical)
Battens required (net)	10 lin.m/m² at 100mm gauge (Roof)
	8.7 lin.m/m² at 115mm gauge (Vertical)
Batten size recommended (fixed to BS 5534)	38 x 25mm for rafters/ supports not exceeding 600mm centres
Tile nails	38mm x 2.65mm
Authority	BS EN 490

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



BS EN 490



Colour availability



















Key (G) Granular finish (S) Smooth finish (F) Fine Sanded finish

Clay plain feature tiles

Available in a range of colours and shapes.

Clay plain feature tiles can be used with concrete plain tiles. For advice on the use of Feature tiles in main roof areas contact the Technical Advisory Service.



p† Bulln

† Made to order

Concrete plain tiles www.marleyeternit.co.uk www.marleyeternit.co.uk Concrete plain tiles 11



Slates

Batch coding

The batch code printed onto the underside of the slates is in the following format:

Example: NT UG21WB 24/11/11 12:10 CE

NT Product type (i.e. non-asbestos technology)
UG21 Product code
W Manufacturing plant ID
B Class (for bending moment)
24/11/11 Date of manufacture
12:10 Time of manufacture
CE CE Mark

Rivendale

Fibre cement slates

A finely detailed surface and dressed edges that together reproduce the attractive appearance of natural slate.

Technical data

Size of slate	600mm x 300mm
Minimum pitch (100mm	lap)*
Moderate exposure	22.5°
Severe exposure	25°
Minimum pitch (110mm	lap)*
Moderate exposure	20°
Severe exposure	22.5°
Maximum pitch	90°
Typical laps (mm)	100, 110
Maximum gauge	245-250mm

100mm lap	13.4
110mm lap	13.6

Weight of slating (approx. kg/m²)

100mm lap	20.4 (0.20 kN/m²)
110mm lap	20.9 (0.20 kN/m²)

Battens required (net lin.m/m²)

100mm lap	4.00
110mm lap	4.08

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.

Slate nails	30mm x 2.65mm
(Copper to BS 1202-2)	

Copper disc rivets required

Fittings screws 14 gauge self sealing screws

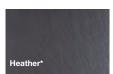
Authority BS EN 492

Marley Eternit fibre cement slates meet the strength requirements 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.



Colour availability







* Made to order





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



12 Slates www.marleyeternit.co.uk www.marleyeternit.co.uk lates | 13

Garsdale

Fibre cement slates

A detailed surface and square edge closely resembles natural slate, but is easier and faster to install.



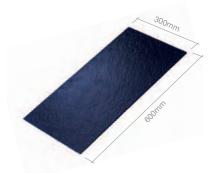


Edge profile

BS EN 492



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



Technical data

22.5° 25° 20° 20° 22.5°	
25° 20°	
o)* 20°	
20°	
22.5°	
90°	
100, 110	
245-250mm	
es/m²)	
13.4	
13.6	
g/m²)	
20.4 (0.20 kN/m²)	
20.9 (0.20 kN/m²)	
m²)	
4.00	
4.08	
	100, 110 245-250mm es/m²) 13.4 13.6 g/m²) 20.4 (0.20 kN/m²) 20.9 (0.20 kN/m²) 4.00

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.

Slate nails	30mm x 2.65mm
(Copper to BS 1202-2)	

Copper disc rivets	required	
Fittings screws	14 gauge self sealing screws	
Authority	BS EN 492	

Marley Eternit fibre cement slates meet the strength requirements 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.

Birkdale

Fibre cement slates

A smooth surface and dressed edges offer a traditional and pleasing look.

Technical data

lechnical data	
Size of slate 600mm x 300mm	
Minimum pitch (100mm	lap)*
Moderate exposure	22.5°
Severe exposure	25°
Minimum pitch (110mm	lap)*
Moderate exposure	20°
Severe exposure	22.5°
Maximum pitch	90°
Typical laps (mm)	100, 110
Maximum gauge	245-250mm
Covering capacity (net s	slates/m²)
100mm lap	13.4
110mm lap	13.6
Weight of slating (approx	x. kg/m²)
100mm lap	20.4 (0.20 kN/m²)
110mm lap	20.9 (0.20 kN/m²)
Battens required (net lin	m/m²)
100mm lap	4.00

Batten size recommended (fixed to BS 5534).

110mm lap

Slate nails

38 x 25mm for rafters/supports not exceeding 450mm centres.

4.08

30mm x 2.65mm

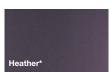
50 x 25mm for rafters/supports not exceeding 600mm centres.

(Copper to BS 1202-2)
Copper disc rivets	required
Fittings screws	14 gauge self sealing screw

Authority BS EN 492

Marley Eternit fibre cement slates meet the strength requirements 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.







* Made to order

Edge profile



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

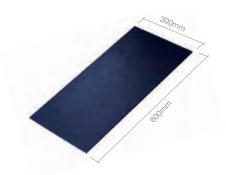


14 Slates www.marleyeternit.co.uk www.marleyeternit.co.uk slates

Thrutone

Fibre cement slates

A smooth surface and square cut edges give a low profile slate at an economical price which is particularly suited to complex roof geometries.



Colour availability



Edge profile



Size of slate	600mm x 300mm	500mm x 250mm
Minimum pitch (100m	nm lap)*	
Moderate exposure	22.5°	22.5°
Severe exposure	25°	25°
Minimum pitch (110m	nm lap)*	
Moderate exposure	20°	=
Severe exposure	22.5°	_
Maximum pitch	90°	90°
Typical laps (mm)	100, 110	100
Maximum gauge	245-250mm	200mm
Covering capacity (ne	et slates/m²)	
100mm lap	13.4	20.0
110mm lap	13.6	=
Weight of slating (app	rox. kg/m²)	
100mm lap	20.4 (0.20 kN/m²)	21.3 (0.21 kN/m²)
110mm lap	20.9 (0.20 kN/m²)	_
Battens required (net	lin.m/m²)	
100mm lap	4.00	5.00
110mm lap	4.08	_
Batten size recomme	nded (fixed to BS 55)	34)

38 x 25mm for rafters/supports not exceeding

Slate nails	30mm x 2.65mm	30mm x 2.65mm
(Copper to BS 1202-2)	

Copper disc rivets	required	required
Fittings screws	14 gauge self s	sealing screws
Authority	BS EN 492	BS EN 492

4mm.



Size of slate	600mm x 300mm	500mm x 250mm
Minimum pitch (100m	ım lap)*	
Moderate exposure	22.5°	22.5°
Severe exposure	25°	25°
Minimum pitch (110m	ım lap)*	
Moderate exposure	20°	-
Severe exposure	22.5°	_
Maximum pitch	90°	90°
Typical laps (mm)	100, 110	100
Maximum gauge	245-250mm	200mm
Covering capacity (ne	t slates/m²)	
100mm lap	13.4	20.0
110mm lap	13.6	=
Weight of slating (app	rox. kg/m²)	
100mm lap	20.4 (0.20 kN/m²)	21.3 (0.21 kN/m²)
110mm lap	20.9 (0.20 kN/m²)	=
Battens required (net	lin.m/m²)	
100mm lap	4.00	5.00
110mm lap	4.08	_

450mm centres.

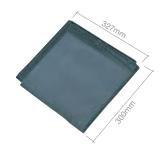
50 x 25mm for rafters/supports not exceeding 600mm centres.

Slate nails	30mm x 2.65mm	30mm x 2.65mm
(Copper to BS 1202-	2)	
Conner disc rivets	required	required

Fittings screws	14 gauge seit s	sealing screws
Authority	BS EN 492	BS EN 492
Marley Eternit fibre cen	nent slates meet the	strength require-
ments of BS EN 492, a	achieving an average	e bending move-
ment greater than 50 N	NM/M (class B). The	slates also have a
minimum density of 17	'00 ka/m³ and a non	ninal thickness of

Melbourn interlocking slates

A lightweight product that closely resembles natural slate, but is easier and faster to install,



Technical data

100111110ai date	A
Size of slate	300mm x 327mm
Effective cover	300mm x 250mm
Minimum pitch*	15°
Maximum pitch	90°
Minimum headlap	50mm (20° and above) 65mm (below 20°)
Maximum gauge	250mm (50mm headlap) 235mm (65mm headlap)
Cover width	300mm (nominal)
Hanging length	296mm (nominal)
Covering capacity (net)	13.3 slates/m ² at 50mm headlap
	14.2 slates/m² at 65mm headlap
Weight of slating (approx.)	15.3kg/m² (0.15 kN/m²) at 50mm headlap
	16.5kg/m² (0.16 kN/m²) at 65mm headlap
Battens required	4.0 lin.m/m² at 50mm headlap
(net)	4.4 lin.m/m² at 65mm headlap
Batten size recommended (fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Slate nails	35mm x 2.65mm stainless steel ring shank
Fixing clips	Eaves, verge and valley clips

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

All Melbourn slates laid on roof pitches 15°-24° should be twice nailed and on roof pitches 25°-90° should be twice nailed in accordance with the recommended fixing procedure. This specification is the minimum requirement and should be confirmed for specific projects by contacting the Technical Advisory Service or by reference to the Melbourn Fixing Tables in the Marley Eternit Zonal Fixing Methods User's Guide. For a copy of the fixing tables, visit www.marleyeternit.co.uk/downloads

Colour availability

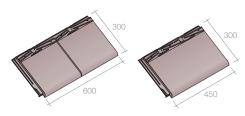


Key (R) Riven finish

Melbourn fittings

To match main slates.

Melbourn should be laid broken bond. The required broken bond pattern is created by the introduction of slate-and-a-half slates, to form verges in alternate courses.



Melbourn double slate

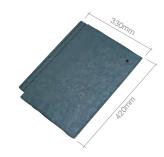
Melbourn Slate and Half



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

Edgemere interlocking slates

A clean and precise slate-like appearance is enhanced by the thin leading edge and the broken-bond laying technique.



Colour availability







Key (S) Smooth finish

Edgemere fittings

Available in all colours to match main slates.

Edgemere should be laid broken bond. The required broken bond pattern is created by the introduction of half slates, to form verges in alternate courses. Half slates are formed on-site by cutting along the scoreline.



Edgemere Half Tile

Technical data

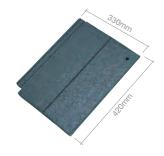
Size of slate	420mm x 330mm
Minimum pitch*	22.5° Smooth (75mm headlap) 17.5° Smooth (100mm headlap)
Maximum pitch	90°
Minimum headlap	75mm (22.5° and above) 100mm (below 22.5°)
Maximum gauge	345mm
Profile depth	d < 5mm
Cover width	298mm (nominal)
Hanging length	395mm (nominal)
Covering capacity (net)	9.7 slates/m ² at 75mm headlap
	10.5 slates/m² at 100mm headlap
Weight of slating (approx.)	44kg/m² (0.43 kN/m²) at 75mm headlap
	47.5kg/m² (0.47 kN/m²) at 100mm headlap
Battens required (net)	2.9 lin.m/m² at 75mm headlap 3.1 lin.m/m² at 100mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Slate nails	45mm x 3.35mm
Fixing clips	Eaves, verge and slate clips
Authority	BS EN 490

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

Duo Edgemere

interlocking slates

An interlocking slate designed to look like and blend in with small format slates.



Technical data

Size of slate	420mm x 330mm
0.20 01 0.00	
Minimum pitch*	22.5° Smooth (75mm headlap) 17.5° Smooth (100mm headlap)
Maximum pitch	90°
Minimum headlap	75mm (22.5° and above) 100mm (below 22.5°)
Maximum gauge	345mm
Profile depth	d < 5mm
Cover width	298mm (nominal)
Hanging length	395mm (nominal)
Covering capacity (net)	9.7 slates/m² at 75mm headlap
	10.5 slates/m² at 100mm headlap
Weight of slating (approx.)	44kg/m² (0.43 kN/m²) at 75mm headlap
	47.5kg/m² (0.47 kN/m²) at 100mm headlap
Battens required (net)	2.9 lin.m/m² at 75mm headlap 3.1 lin.m/m² at 100mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Slate nails	45mm x 3.35mm
Fixing clips	Eaves, verge and slate clips
Authority	BS EN 490

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

Colour availability





Key (S) Smooth finish

Duo Edgemere fittings

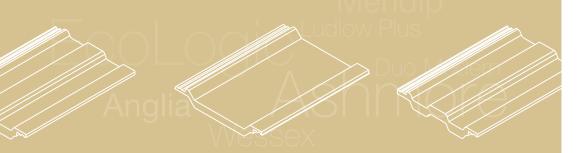
Duo Edgemere should be laid a quarter broken bond. The required broken bond pattern is created by the introduction of three quarter width slates, cut from standard slates on site to form verge slates in alternate courses.







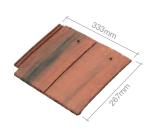
www.marleyeternit.co.uk 18 Slates www.marleyeternit.co.uk Slates



Concrete interlocking tiles

Ashmore

A single lap, interlocking double plain tile, with the engineered precision and ease of installation of an interlocking tile.



Technical data

rechnical data	a de la companya de
Size of tile	267mm x 333mm
Minimum pitch*	22.5°
Maximum pitch	90°
Minimum headlap	77mm
Maximum gauge	190mm
Profile depth	d < 5mm
Cover width	302mm (nominal)
Hanging length	235mm (nominal)
Covering capacity (net)	17.5 tiles/m² at 77mm headlap 19 tiles/m² at 92mm headlap
Weight of tiling (approx.)	48 kg/m² (0.47 kN/m²) at 77mm headlap
	52 kg/m^2 (0.51 kN/m²) at 92mm headlap
Battens required (net)	5.3 lin.m/m² at 77mm headlap 5.8 lin.m/m² at 92mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Tile nails	45mm x 3.35mm
Fixing clips	Eaves, verge and tile clips
Authority	BS EN 490

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

Colour availability









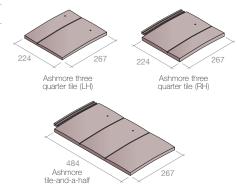


Key (S) Smooth finish (CL) Manufactured using ColourLogic™ technology

Ashmore fittings

Available in all colours to match main tiles.

Ashmore tiles should be laid broken bond. The required broken bond pattern is created by the introduction of three quarter width tiles in alternate courses. Tile-and-a-half tiles are available for use at hips and valleys.

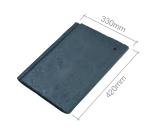




Concrete interlocking tiles www.marleyeternit.co.uk www.marleyeternit.co.uk Concrete interlocking tiles

Modern

A flat, smooth, single-lap interlocking design whose slate-like appearance is enhanced by the required broken bond laying pattern.



Colour availability



Kev

Dark Red (S)

(S) Smooth finish (G) Granular finish

† Only available without nail holes

Modern fittings

Available in all colours to match main tiles.

Modern should be laid broken bond. The required broken bond pattern is created by the introduction of half tiles to form verges in alternate courses. Half tiles are formed on-site by cutting along the scoreline.

Technical data

reci il lical date	٨
Size of tile	420mm x 330mm
Minimum pitch*	22.5° Smooth (75mm headlap) 17.5° Smooth (100mm headlap) 30° Granular (75mm headlap) 25° Granular (100mm headlap)
Maximum pitch	90°
Minimum headlap	75mm
Maximum gauge	345mm
Profile depth	d < 5mm
Cover width	292mm (nominal)
Hanging length	397mm (nominal)
Covering capacity (net)	9.9 tiles/m² at 75mm headlap 10.7 tiles/m² at 100mm headlap
Weight of tiling (approx.)	50kg/m² (0.49 kN/m²) at 75mm headlap 54kg/m² (0.53 kN/m²) at 100mm headlap
Battens required (net)	2.9 lin.m/m² at 75mm headlap 3.1 lin.m/m² at 100mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Tile nails	50mm x 3.35mm
Fixing clips	Eaves, verge and tile clips
Authority	BS EN 490

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



BS EN 490

Solesia integrated solar roof systems Solesia Compatible with Modern interlocking tiles.

Modern Half Tile

web marleyeternit.co.uk/solar advice Tel 01283 722588



Duo Modern

A flat, smooth, single lap, interlocking tile with a 'mock bond' joint is enhanced by the required broken-bond laying technique.



Technical data

16CH HCal Gate	ı
Size of tile	420mm x 330mm
Minimum pitch*	22.5° Smooth (75mm headlap) 17.5° Smooth (100mm headlap)
Maximum pitch	90°
Minimum headlap	75mm
Maximum gauge	345mm
Profile depth	d < 5mm
Cover width	292mm (nominal)
Hanging length	397mm (nominal)
Covering capacity (net)	9.9 tiles/m² at 75mm headlap 10.7 tiles/m² at 100mm headlap
Weight of tiling (approx.)	50kg/m² (0.49 kN/m²) at 75mm headlap
	54kg/m² (0.53 kN/m²) at 100mm headlap
Battens required (net)	2.9 lin.m/m² at 75mm headlap 3.1 lin.m/m² at 100mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Tile nails	50mm x 3.35mm
Fixing clips	Eaves, verge and tile clips
Authority	BS EN 490

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

Colour availability





Key (S) Smooth finish

Duo Modern fittings

Duo Modern should be laid broken bond. The required broken bond pattern is created by the introduction of three quarter width tiles, cut from standard tiles on site to form verge tiles in alternate courses.



Concrete interlocking tiles www.marleyeternit.co.uk www.marleyeternit.co.uk Concrete interlocking tiles

Low partie design

A double pantile design with elegant flowing lines, instant visual appeal and exceptional strength.



A single-lap interlocking concrete tile with the classic clay pantile profile and a bullnosed leading edge design.



Colour availability













Key G) Granular finish (S) Smooth finish

Technical data

16011110ai uata	a
Size of tile	420mm x 330mm
Minimum pitch*	17.5° Smooth (75mm headlap) 15° Smooth (100mm headlap) 30° Granular (75mm headlap) 25° Granular (100mm headlap)
Maximum pitch	90°
Minimum headlap	75mm
Maximum gauge	345mm
Profile depth	d > 20mm
Cover width	298mm (nominal)
Hanging length	397mm (nominal)
Covering capacity (net)	9.7 tiles/m² at 75mm headlap 10.5 tiles/m² at 100mm headlap
Weight of tiling (approx.)	46 kg/m² (0.45 kN/m²) at 75mm headlap 49 kg/m² (0.48 kN/m²) at 100mm headlap
Battens required (net)	2.9 lin.m/m² at 75mm headlap 3.1 lin.m/m² at 100mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Tile nails	70mm x 3.35mm
Fixing clips	Eaves, verge and tile clips
Authority	BS EN 490

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

Technical data

lechnical data	d
Size of tile	387mm x 230mm
Minimum pitch*	30° Smooth (75mm headlap) 30° Granular (75mm headlap) 25° Smooth (100mm headlap)
Maximum pitch	90°
Minimum headlap	75mm
Maximum gauge	312mm
Profile depth	d > 20mm
Cover width	204mm (nominal)
Hanging length	370mm (nominal)
Covering capacity (net)	15.7 tiles/m² at 75mm headlap 17.1 tiles/m² at 100mm headlap
Weight of tiling (approx.)	47 kg/m² (0.46 kN/m²) at 75mm headlap
	51 kg/m² (0.50 kN/m²) at 100mm headlap
Battens required (net)	3.2 lin.m/m² at 75mm headlap 3.5 lin.m/m² at 100mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Tile nails	38mm x 3.35mm
Fixing clips	Eaves, verge and tile clips
Authority	BS EN 490
* The minimum recomm	nandad pitah and lan may ba inflyance

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

Colour availability











Key (G) Granular finish (S) Smooth finish





Double Roman

A 2000 year old profile with precision-engineered functionality.



Ludlow Plus

Ideal for refurbishment applications, where its smaller format reduces wastage.

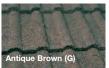


Colour availability















Key (G) Granular finish (S) Smooth finish

Technical data

Size of tile	420mm x 330mm
Minimum pitch*	25° Smooth (75mm headlap) 30° Granular (75mm headlap) 22.5° Smooth (100mm headlap)
Maximum pitch	90°
Minimum headlap	75mm
Maximum gauge	345mm
Profile depth	d > 20mm
Cover width	300mm (nominal)
Hanging length	397mm (nominal)
Covering capacity (net)	9.7 tiles/m² at 75mm headlap 10.4 tiles/m² at 100mm headlap
Weight of tiling (approx.)	44 kg/m² (0.43 kN/m²) at 75mm headlap
	47 kg/m² (0.46 kN/m²) at 100mm headlap
Battens required (net)	2.9 lin.m/m² at 75mm headlap 3.1 lin.m/m² at 100mm headlap
	· ·
(net) Batten size	3.1 lin.m/m² at 100mm headlap 38 x 25mm for rafters/supports
(net) Batten size recommended	3.1 lin.m/m² at 100mm headiap 38 x 25mm for rafters/supports not exceeding 450mm centres 50 x 25mm for rafters/supports
(net) Batten size recommended (fixed to BS 5534)	3.1 lin.m/m² at 100mm headiap 38 x 25mm for rafters/supports not exceeding 450mm centres 50 x 25mm for rafters/supports not exceeding 600mm centres
(net) Batten size recommended (fixed to BS 5534) Tile nails	3.1 lin.m/m² at 100mm headlap 38 x 25mm for rafters/supports not exceeding 450mm centres 50 x 25mm for rafters/supports not exceeding 600mm centres 65mm x 3.35mm

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

Technical data

recrimical data	d
Size of tile	387mm x 229mm
Minimum pitch*	25° Smooth (75mm headlap) 30° Granular (75mm headlap) 22.5° Smooth (100mm headlap)
Maximum pitch	90°
Minimum headlap	75mm
Maximum gauge	312mm
Profile depth	$20mm \ge d \ge 5mm$
Cover width	204mm (nominal)
Hanging length	361mm (nominal)
Covering capacity (net)	15.7 tiles/m² at 75mm headlap 17.1 tiles/m² at 100mm headlap
Weight of tiling (approx.)	47 kg/m² (0.46 kN/m²) at 75mm headlap
	51 kg/m² (0.50 kN/m²) at 100mm headlap
Battens required (net)	3.2 lin.m/m² at 75mm headlap 3.5 lin.m/m² at 100mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Tile nails	50mm x 3.35mm
Fixing clips	Eaves, verge and tile clips
Authority	BS EN 490

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

Colour availability













Key (G) Granular finish (S) Smooth finish

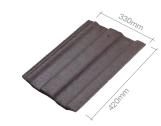




Concrete interlocking tiles www.marleyeternit.co.uk www.marleyeternit.co.uk Concrete interlocking tiles | 27

Ludlow Major

Simple, strong lines exploit the interplay between light and shade.



Colour availability













Mosborough Red (S)

Key (G) Granular finish (S) Smooth finish

Technical data

16011110ai uata	2
Size of tile	420mm x 330mm
Minimum pitch*	25° Smooth (75mm headlap) 30° Granular (75mm headlap) 22.5° Smooth (100mm headlap)
Maximum pitch	90°
Minimum headlap	75mm
Maximum gauge	345mm
Profile depth	20 mm \geq d \geq 5 mm
Cover width	295mm (nominal)
Hanging length	399mm (nominal)
Covering capacity (net)	9.8 tiles/m² at 75mm headlap 10.6 tiles/m² at 100mm headlap
Weight of tiling (approx.)	45 kg/m² (0.44 kN/m²) at 75mm headlap
	49 kg/m² (0.48 kN/m²) at 100mm headlap
Battens required (net)	2.9 lin.m/m² at 75mm headlap 3.1 lin.m/m² at 100mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Tile nails	55mm x 3.35mm
Fixing clips	Eaves, verge and tile clips
Authority	BS EN 490

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

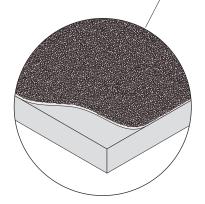


This unique EcoLogic coating applied to the Ludlow Major tile, removes nitrogen oxides and other pollutants from the atmosphere. The tile also includes much higher levels of recycled content.

Technical data

Size of tile	420mm x 330mm
Minimum pitch*	30° Granular (75mm headlap)
Maximum pitch	90°
Minimum headlap	75mm
Maximum gauge	345mm
Profile depth	20mm ≥ d ≥ 5mm
Cover width	295mm (nominal)
Hanging length	399mm (nominal)
Covering capacity (net)	9.8 tiles/m² at 75mm headlap 10.6 tiles/m² at 100mm headlap
Weight of tiling (approx.)	45 kg/m² (0.44 kN/m²) at 75mm headlap
	49 kg/m² (0.48 kN/m²) at 100mm headlap
Battens required (net)	2.9 lin.m/m² at 75mm headlap 3.1 lin.m/m² at 100mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Tile nails	55mm x 3.35mm
Fixing clips	Eaves, verge and tile clips
Authority	BS EN 490

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



EcoLogic composition

Photocatalytic granules stimulated by sunlight to remove NOx
Photocatalytic pigmented slurry adhesive
Concrete body containing nearly 50%



recycled material



Key (G) Granular finish

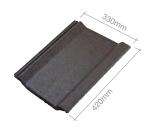




Concrete interlocking tiles www.marleyeternit.co.uk www.marleyeternit.co.uk Concrete interlocking tiles

Wessex

Designed to shed water efficiently at pitches down to 15°, the Wessex has clean, simple lines with a pleasing minimalist style.



Colour availability





Key (S) Smooth finish

Technical data

Size of tile	420mm x 330mm
Minimum pitch*	15°
Maximum pitch	44°
Minimum headlap	75mm
Maximum gauge	345mm
Profile depth	d > 20mm
Cover width	298mm (nominal)
Hanging length	403mm (nominal)
Covering capacity (net)	9.7 tiles/m² at 75mm headlap 10.4 tiles/m² at 100mm headlap
Weight of tiling (approx.)	50 kg/m² (0.49 kN/m²) at 75mm headlap
	53 kg/m² (0.52 kN/m²) at 100mm headlap
Battens required (net)	2.9 lin.m/m² at 75mm headlap 3.1 lin.m/m² at 100mm headlap
Batten size recommended	38 x 25mm for rafters/supports not exceeding 450mm centres
(fixed to BS 5534)	50 x 25mm for rafters/supports not exceeding 600mm centres
Fixing clips	Eaves, verge and tile clips
Authority	BS EN 490

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



Clay interlocking tiles



Domino

A flat interlocking clay tile, with a simple and strong shape providing a unique, aesthetic appeal.

Domino tiles and fittings are made to order.



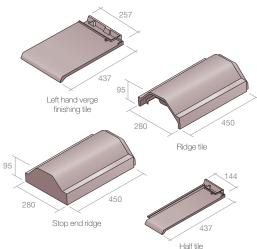
Colour availability





Domino fittings and accessories

A bespoke range of fittings is available for Sandringham and Domino. For more information, please contact the Technical Advisory Service.



Technical data

16011110al uata	
Size of tile	437mm x 257mm
Minimum pitch*	25°
Maximum pitch	60°
Minimum headlap	83mm
Maximum gauge	354mm
Cover width (nomina	al) 224mm
Covering capacity (net)	12.4 tiles/m² at 354mm max. gauge 13.1 tiles/m² at 342mm min. gauge
Weight of tiling (approx.)	43.4 kg/m² (0.42 kN/m²)
Battens required (net)	2.82 lin.m/m² (max. gauge)
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
Tile nails	45mm x 3.35mm
Fixings	Tile clip and nail Eaves clip Verge clip

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

→ Solesia integrated solar roof systems ***solesia

Compatible with Domino clay interlocking tiles.

web marleyeternit.co.uk/solar advice Tel 01283 722588



Sandringham

An interlocking, large format pantile available in Terracotta Red to provide the warm, traditional look associated with clay. Available with variable headlock for ease of laying.

325mm

Technical data

recrimical data	
Size of tile	403mm x 325mm
Minimum pitch*	22°
Maximum pitch	60°
Minimum headlap	47mm
Maximum gauge	356mm
Cover width	282mm (nominal)
Cover length	351mm (nominal)
Covering capacity (net)	9.9 tiles/m² at 47mm headlap
Weight of tiling (approx.)	40.6kg/m² (0.40 kN/m²) at 47mm headlap
Battens required (net)	2.8 lin.m/m² at 47mm headlap
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
Tile nails	38mm x 3.35mm
Fixing clips	Tile clip and nail Eaves clip Verge clip

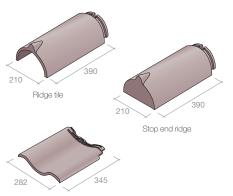
The minimum recommended pitch and lap may be influenced by special circumstances, please contact the Technical Advisory Service.

Colour availability



Sandringham clay fittings

A bespoke range of fittings is available for Sandringham and Domino. For more information, please contact the Technical Advisory Service.



Left hand verge finishing tile

Clay interlocking tiles www.marleyeternit.co.uk www.marleyeternit.co.uk Clay interlocking tiles | 33



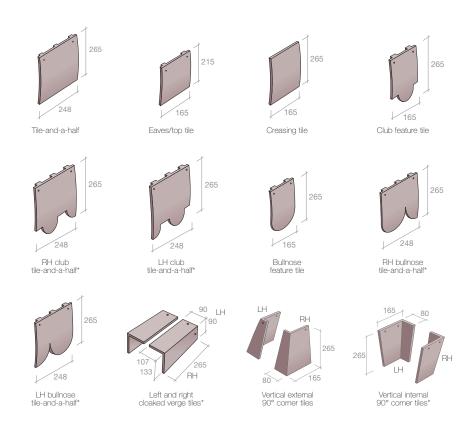
Fittings & accessories

Clay fittings & accessories

Clay plain tile fittings

Available in a range of colours.

* Made to order.



Fittings & accessories www.marleyeternit.co.uk www.marleyeternit.co.uk saccessories 35

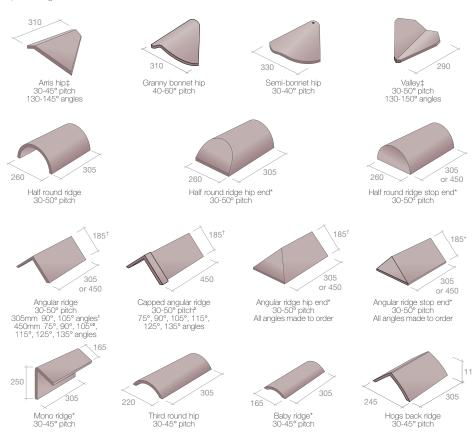
Clay fittings & accessories

Clay ridges, hips and valleys

Available in a range of colours and angles. Security fixing is available for all ridges.

For details of the full range of fittings, please contact the Technical Advisory Service.

- * Made to a minimum order quantity and subject to a lead time, please contact Customer Services for more information.
- † Angle ridge wing length will vary depending on ridge angle
- ‡ Other angles made to order

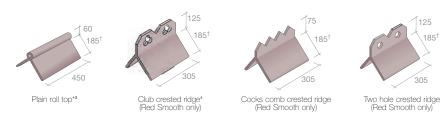


Important note: Fittings for use with Acme double camber and Ashdowne clay plain tiles should not be used on a rafter pitch below 35°.

Clay crested ridges

Available in a range of colours and angles. Security fixing is available for all ridges. Certain fittings are made to order, contact Customer Services for more information.

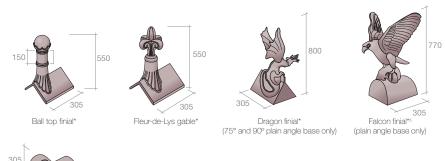
† Angle ridge wing length will vary depending on ridge angle.



Clay finials

Available in a range of colours.

* Made to a minimum order quantity and subject to a lead time, please contact Customer Services for more information.





Half round ridge scroll finial* (plain angle bases available)

- ¹ MTO in Ashdowne colours (305mm)
- ² MTO apart from Smooth and Slate Black (450mm)
- ³ MTO apart from Smooth and Slate Black
- $^4\,90^{\rm o}$ and 105° are standard. All others are MTO
- ⁵ Available in 90° and 105° only

The components shown on this page and page 39 opposite, are dedicated clay plain tile and fibre cement dry fix and/or ventilation components.

The following systems can also be used with clay plain tiles and fibre cement slates:

- UNIVERSAL 10mm eaves vent system UNIVERSAL RidgeFast system[†]
- UNIVERSAL 25mm eaves vent system
- UNIVERSAL HipFast system[†]

† Subject to ridge/hip tile angle.

Clay ridge ventilators

Available in a range of colours and angles. Clay ridge ventilators provide a net ventilation area of 10,000mm²/m per vent. They should be installed at 2 metre centres to achieve a ventilation area of 5,000mm²/m at the ridge. Suitable for natural, mechanical or soil pipe ventilation.

* Made to a minimum order quantity and subject to a lead time, please contact Customer Services for more information.



Plain angle ridge vent*



Half round ridge vent*





(Red Smooth only)

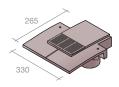


Hogs back ridge vent*

Ridge vent pipe adaptor

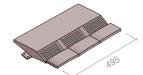
UNIVERSAL Plain tile contour vent

Ventilation area of 10,000mm². (High impact resistant PVC in Terracotta, Grey and Brown)



Clay in-line tile vent

Available in a range of bases with real clay tile slips on the visible edge (3 tiles wide). The clay tile vent provides a net ventilation area of 7,500mm² per vent. It should be installed at 1.5m centres to achieve a ventilation area of 5,000mm²/m at high level or at 0.75m centres to achieve a ventilation area of 10,000mm²/m at low level. Suitable for natural, mechanical or soil pipe ventilation.



Accessories







Flexible pipe

Fibre cement fittings & accessories

Fibre cement fittings

Increments are in 5° where ranges of angle are indicated.

Available in Blue/Black.

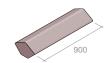
† 6m ventilated Ridge Roll is available to provide continous ventilation.

Also available:

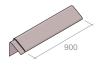
In-line ridge ventilator stepped adaptor, Flexible pipe.



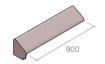
Duo pitch ridge*



Stop end for duo pitch ridge*



Monopitch ridge*



Stop end for monopitch ridge*



Roll top ridge*



Stop end for roll top ridge*



In-line ridge ventilator plus extension sleeve (20° to 45°)



Right angle return ridge (20° to 45°)

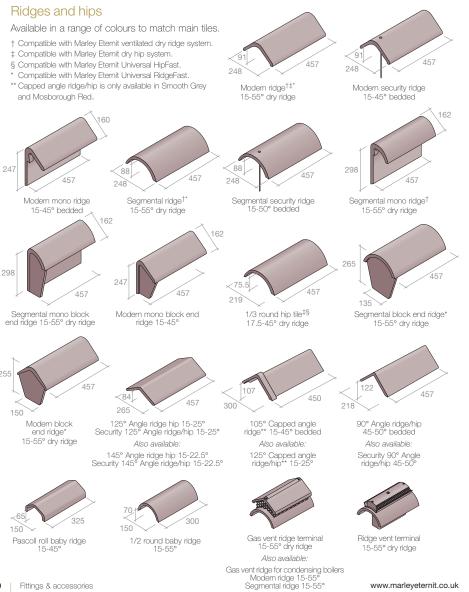




Fibre cement ridge roll†

Fittings & accessories www.marleyeternit.co.uk www.marleyeternit.co.uk Fittings & accessories

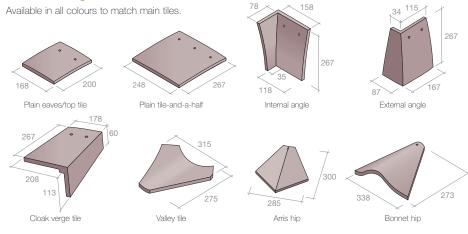
Concrete fittings



Crested ridges and finials Available in Smooth Grey, Smooth Brown, Old English Dark Red and Mosborough Red. † Compatible with Marley Eternit ventilated dry ridge system. Cocks comb[†] Fleur-de-Lys† Three hole[†] 4 hole bullnose[†] Scroll end[†] 310 395 360 Small ball top[†] Ball top[†] Fleur-de-Lys†

Plain tile fittings

www.marleyeternit.co.uk



Fixings

Clip and nail packs

The table below shows the quantities packaged together with the correct sized nails.

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	, ,,							v \-	•				
	Code	Pack	Code	Pack	Code	Pack	Code	Pack	Code	Pack	Code		Approx.
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	Count
Aluminium alloy													
Ludlow Plus	30265	1	30266	6	30290	33	30290	33	30277	22	30350	27	396
Anglia	30269	3	30270	8	30284	12	30286	14	30274	19	30349	26	520
Ludlow Major	30265	1	30266	6	30287	15	30287	15	30277	22	30371	32	373
Mendip	30267	2	30268	7	30288	16	30287	15	30276	21	30352	29	287
Double Roman	30271	4	30272	9	30289	17	30290	33	30275	20	30351	28	308
Wessex	30267	2	30268	7	30286	14	30286	14	30278	23	-	-	-
Modern	30265	1	30266	6	30290	33	30290	33	30273	18	30350	27	396
Duo Modern	30265	1	30266	6	30290	33	30290	33	30273	18	30350	27	396
Edgemere	30295	5	30296	10	30263	11	30263	11	30297	24	30398	31	432
Duo Edgemere	30295	5	30296	10	30263	11	30263	11	30297	24	30398	31	432
Ashmore*	-	-	-	-	30263	11	30263	11	30297	24	30398	31	432
Plain	-	-	-	-	-	-	-	-	-	-	30348	25	793
Stainless steel													
Anglia	-	-	30102	41	-	-	-	-	30111	51	30121	61	182
Mendip	-	-	30103	42	-	-	-	-	30112	52	30123	63	99
Double Roman	-	-	30104	43	-	-	-	-	30116	56	30124	64	109
Wessex [†]	-	-	30103	42	-	-	-	-	-	-	-	-	-
Edgemere	-	-	30105	44	-	-	-	-	30115	55	30125	65	109
Duo Edgemere	-	-	30105	44	-	-	-	-	30115	55	30125	65	109
Ashmore	30130	34	30131	35	-	-	-	-	-	-	30125	65	109
Plain	-	-	-	-	-	-	-	-	-	-	30126	66	302
Ludlow Plus					-	-	-	-	30110	50	30120	60	137
Ludlow Major	For tile	clip and r	nail solution	ns for	-	-	-	-	30110	50	30127	67	137
Modern	these p	rofiles, us	se 'Solo-Fi	x'	-	-	-	-	30114	54	30120	60	137
Duo Modern					-	-	-	-	30114	54	30120	60	137

^{*} Clips only

Interlocking slate clips and nails

All slate clips and nails are provided in stainless steel.

Profile	Code No.	Code No.
Melbourn	S50023*	30260

^{*} Eaves fixing kit (box of 50)

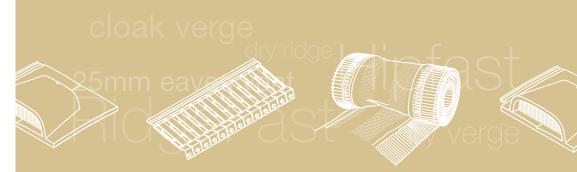
Solo-Fix

An integrated one-piece clip and nail manufactured from zial coated steel for strength and durability.

Profile	Code No.	Quantity
Ludlow Plus/Ludlow Major/		
Modern/Duo Modern	30430	500 per pack

Fibre cement slate fixings

Description	Colour	Quantity
Copper disc rivets		1000
Copper nails		1000
60mm x 14 Gauge Self-sealing screws	Blue/Black	100
60mm x 14 Gauge Self-sealing screws	Clay Red	100



Dry fix & ventilation

[†] Wessex eaves clip and nail pack only available in aluminium alloy.

Dry fix & ventilation system selector

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		M Diain tiles	nctele plain	Ne cellent e	A STORES	Juo Edgene	and indian	ASTINO	o Judow	ing.	Double Ros	half Mail	4 Frontos	, set
	Q ₆	y, Co	Vic City	_{γ₀} ¢ _ç	18° 18°	St.	Indinghic Oc	PS,II.	Ludic	Projig	Oone	Lidio	Very 7/	sset (
UNIVERSAL roofing accessories														
10mm eaves vent system	✓	✓	✓	✓	✓	√	✓	✓	√	/ /	✓	√	✓	√
25mm eaves vent system	✓	✓	✓	√	√	✓	✓	√		/ /			✓	√
Dry verge										✓			✓	1
HipFast	✓	✓	✓	✓	✓			✓	✓	/ /	✓		✓	√
RidgeFast	✓	✓	✓	√	√			√	✓	/ /	✓	✓	✓	√
Tile vent				✓				✓	✓	/ /	✓	✓	✓	✓
GRP dry valley system		✓		✓				✓	✓	/ /	✓	✓	✓	✓
Ridge Roll			✓											
Dry verge														
Cloak verge system	✓	✓								✓		✓		√ *
Slate verge trim			✓		✓									
Edgemere dry verge				✓										
Ashmore dry verge								✓						
Dry hip														
Dry hip system		✓		✓	✓			✓	✓	/ /	✓	✓	✓	✓
Dry hip with duo pitch ridges			✓											
Dry valley														
Plain tile valley	✓	✓												
GRP interlocking slate dry valley system			✓		✓									
Ventilated dry ridge														
Ventilated dry ridge	✓	✓	✓	✓	✓			✓	√	/ /	√	✓	✓	✓
Ventilated mono dry ridge		✓	✓	√	✓			√		/ /			✓	1
Fibre cement ventilated ridges			✓											
Ventilation terminals														
Gas vent ridge terminals		✓		✓	✓			✓	✓	/ /	✓	✓	✓	✓
Ridge vent terminals	✓	✓	✓	✓	✓			✓	✓	/ /	✓	✓	✓	✓
In-line vents and contour vents	✓	✓	✓	✓	✓			✓	✓	/ /	✓	✓	✓	✓
Tile vent terminals				✓						✓	✓	✓	✓	✓
Ventilation roof tile								✓						
Ridge vent for condensing boiler		✓	✓	✓	✓			✓	✓	/ /	✓	✓	✓	✓

* Suitable for Modern only

UNIVERSAL roofing accessories

Suitable for use with Marley Eternit roofing products and those of other manufacturers.

UNIVERSAL

10mm/25mm

eaves vent

Designed for use with all tiles and slates. The over fascia strip ventilator satisfies requirement for 10mm or 25mm continuous eaves ventilation.



10 and 25mm eaves ventilation

Universal 10mm eaves vent system (6m pack) 46350

- 6m eaves rafter roll
- 10 No. felt support tray
- 6 No. strip ventilator

Universal 25mm eaves vent system (6m pack) 46351 - 6m eaves rafter roll

- 10 No. felt support tray
- 10 No. leit support tray
- 6 No. strip ventilator

 Comb filler strip
 30425

 Roll duct tray (2 No. 6m)
 46323

UNIVERSAL

Dry verge

Designed for use with large format interlocking tiles installed at 75mm-115mm head lap and rafter pitches from 12.5° to 45° (suitable up to 55° subject to ridge system).



Dry verge system	
28 No. left hand units	391*
28 No. right hand units	392*
Fixing kit (also available)	39300
End caps	
Modern ridge	394*
Segmental ridge	395*
Modern mono-ridge	
Left hand	408*
Right hand	409*
Segmental mono-ridge	
Left hand	427*

* Suffix with colour code 01 Grey, 03 Brown, 04 Terracotta

Dry verge refurbishment kit

UNIVERSAL

HipFast

Simple and rapidly installed dry fix system compatible with all tiles and slates up to 45° (suitable up to 60° subject to tile/slate profile).



Universal HipFast system (6m pack)

- 6m length hip roll
- 6 No. batten brackets
- 13 No. hip unions

HipFast fixing kit 34001
- 24 No. tile head 'C' clips

- 24 No. tile Head G Cil

- 36 No. tile tail clips

Hip support trays

428*

35800

- 9 No. 715mm

34002

UNIVERSAL

RidgeFast

Simple and rapidly installed dry fix system providing 5mm continuous ridge ventilation and compatible with all tiles and slates up to 40° (suitable up to 60° subject to tile/slate profile).



Universal RidgeFast system (6m pack)

- 6m length ridge roll
- 10 No. ridge batten brackets
- 13 No. ridge union straps
- 13 No. ridge union clamps
- 13 No. 75mm x 4.8mm s/s screws
- TO THE PERMIT A HEIMIT OF COLONE
- 40 No. 25mm x 2.65mm s/s ARS nails

RidgeFast roll applicator	33002
(optional)	
RidgeFast blanking tape	33001

UNIVERSAL

Tile vent

Designed for roof void ventilation and connection to 110mm soil/ mechanical extract system. Compatible with large format interlocking tiles (including "15 x 9" tiles) and roof pitches 20° and above.



Universal Tile vent	
Grey	3670
Brown	3670
Terracotta	3670
Flexible pipe	3909

UNIVERSAL

GRP dry valley

Mortar free solution suitable for use with concrete interlocking tiles/slates and concrete/clay plain tiles.

Suitable on rafter pitches from 17.5° to 60° and accommodates up to 20° pitch difference either side of valley.



Universal GRP dry valley					
(3m lengths)					
low profile	30422				
high profile	30421				



→ More

For further details on the technical performance of these systems, please contact the Technical Advisory Service:

el 01283 722588

e-Mail info@marleyeternit.co.uk

literature 'Dry fix and ventilation systems'



Right hand

Dry fix & ventilation www.marleyeternit.co.uk www.marleyeternit.co.uk Dry fix & ventilation 47

UNIVERSAL

in-line plain tile vent

Designed for natural, mechanical or soil pipe ventilation. Provides 10,000mm² free area of ventilation and suitable for roof pitches 20° and above.



Universal tile vent terminal		
Grey	45501	
Brown	45502	
Terracotta	45503	
Red	45504	
Clay Red	45505	
Clay Brown	45506	
Flexible pipe		
ID 110mm (sold separately)	30001	

Pressure resistance va	lues		
Pa (litres/sec airflow)	15	30	60
Free air area 10000m ²	13.6	53.7	21

UNIVERSAL Ridge Roll

Simple and rapidly installed dry fix system providing 5mm continuous ridge ventilation. Compatible with fibre cement slates and ridges.



Ridge Roll	33010
Fibre cement ventilated	
dry ridge (illustrated above)	
Duo pitch ridge	(no code)
Stop end for duo pitch ridge	(no code)
Roll top ridge	(no code)
Stop end for roll top ridge	(no code)
Ventilated ridge roll	(no code)

Continuous dry verge systems

For both new and refurbishment work and provides a mechanically fixed, durable, maintenance free verge solution for rafter pitches up to 55° with Melbourn slates, fibre cement slates and natural slates.



Slate verge trim (illustrated abo	ove)
Melbourn slates (3 metre)	MA42203
Fibre cement slates (3 metre)	MA42206
Ashmore dry verge	
Verge section (3 metre)	38501
Fixing kit	38510

Provides a mechanically fixed, durable, maintenance free verge solution. Suitable up to 45° for Mendip, Modern, Double Roman tiles and 55° for plain tiles.

Cloak verge

systems



Manadia ala ala ang Gili atanta ala	-1
Mendip cloak verge (illustrated a	,
Left hand	245
Right hand	246
Mendip half tile	147
Mendip fixing kit	42520
Double Roman cloak verge	
Left hand	265
Right hand	266
Double Roman half tile	102
Double Roman fixing kit	42520
Concrete plain tile cloak verge	
Left hand	249
Right hand	250
Segmental block end ridge	191
Segmental mono block end rid	ge
Left hand	189
Right hand	190
Modern cloak verge	
Left hand	371
Right hand	370
Modern cloak verge half tile	372
Modern fixing kit	37300
Modern block end ridge	374
Modern mono block end ridge	
Left hand	375
Right hand	376
Clay plain tile cloak verge	(no code)

Available in all colours to match main tiles.

Edgemere dry verge system

Compatible with Edgemere slates, installed at 75mm-115mm head lap and rafter pitches from 17.5° to 45° (suitable up to 55° when used with the 'Steep pitch ridge batten section', see Dry Ridge System).



Riight hand	_eft hand		38
Edgemere dry verge fixing kit 38 End caps Edgemere ridge (Modern mono-ridge Left hand	Right hand		
End caps Edgemere ridge Modern mono-ridge Left hand			38:
Edgemere ridge Modern mono-ridge Left hand	Edgemere dry verg	e fixing kit	3830
Modern mono-ridge Left hand	End caps		
Left hand	Edgemere ridge		38
Lorenana	Modern mono-ridge		
Dight hand	Left hand		40
nigrit riariu 4	Right hand		40
Ory verge refurbishment kit 35	Ory verge refurbish	ment kit	3580

Dry hip system

Suitable for tiles and slates when used in conjunction with Third Round or Modern hip tiles for roof pitches up to 45°.



	,	
Batten sections		
Low profile		4330
High profile		4340
Fixing kits		
Low profile		4360
High profile		4361
Hip tail clip pack		
Melbourn interlocking slate	e	4360
Ridge unions		
Modern ridge union		4140
Third round hip union		4350
Apex caps		
Modern hip apex cap	(15-24°)	4381
	(25-35°)	4382
	(36-45°)	4383
Third round hip apex cap	(15-24°)	4371
	(25-35°)	4372
	(36-45°)	4373
Block end hip tiles		
Third round block end hip t	tile	29
Modern block end hip tile		29
* Suffix with colour code		
01 Grey, 03 Brown, 04 Terr	racotta	





→ More

For further details on the technical performance of these systems, please contact the Technical Advisory Service:

tel 01283 722588

e-Mail info@marleyeternit.co.uk

literature 'Dry fix and ventilation systems'

Valley systems

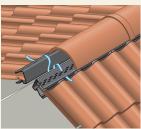
The GRP Valley for large format tiles and Slate GRP Dry Valley for Melbourn and fibre cement slates are both suitable for roof pitches from 22.5° to 45°.



GRP valley trough	30577
Slate GRP dry valley (illustrated	d above)
(for Melbourn interlocking slates	
and fibre cement slates)	30578

Dry ridge system

Mechanically fixed, weathertight and mortar free solution providing 5mm continuous ridge ventilation. Suitable for concrete tiles and slates, fibre cement slates and Melbourn Slates when used in conjunction with Segmental or Modern ridge tiles for roof pitches up to 55°.



Batten sections	
Plain tile	41099
Low profile	41101
High profile	41201
Steep pitch (low profile)	41102
Steep pitch (high profile)	41202
Ridge unions	
Segmental ridge union	413*
Segmental mono-ridge union	423*
Modern ridge union	414*
Modern/segmental	
adaptor ridge union	420*
Fixing Kits	
Concrete tiles & slates fixing kit	41000
Double lap Slates fixing kit	41002



Filler units†			
Double Roman filler unit	- vented	42105	
Plain / Modern / Duo Modern /			
Edgemere filler unit	- vented	41501	
Double lap slates filler unit	- vented	41703	
Ludlow Major filler unit	- vented	41601	
Ludlow Plus filler unit	- vented	41508	
Melbourn filler unit	- vented	41705	
Mendip filler unit	- vented	41701	
Wessex filler unit	- vented	41901	
Anglia filler unit	- vented	41506	
Dry ridge set out gauge		41001	
Apex caps			
Segmental ridge junction		439*	
Modern ridge junction		440*	
Top abutment support strip		42505	
Top abutment fixing kit		41000	
* Suffix with colour code			

01 Grey, 03 Brown, 04 Terracotta † Where non-vented dry ridge is required, use Blanking Tape (2x 2m, code 33001)



→ More

For further details on the technical performance of these systems, please contact the Technical Advisory Service:

01283 722588

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literature 'Dry fix and ventilation systems'

Ridge vent terminals Tile vent terminals

Suitable for soil/mechanical ventilation. Provides high level ventilation for concrete tiles (9,500mm² free area), clay plain tiles or fibre cement slates (10,000mm² free area).



(concrete tiles)	198
Ridge for condensing boilers	
Segmental	254
Modern	255
Gas vent ridge terminal (concre	ete tiles)
(with extension piece)	256
Gasket set (spare)	30346
Plumbers accessory pack	39090
Ridge ventilation	
450mm clay half round vent	(no code
450mm clay angle ridge vent	(no code
450mm clay decorative ridge vent	(no code
450mm clay hogs back ridge vent	(no code
Ridge pipe adaptor	(no code

* Made to order

Available in a wide range of colours and finishes provides for high/low level roof space ventilation. Suitable for soil/mechanical ventilation (except Ashmore).



Terminals	
(with spigot)	
Mendip (illustrated above)	294
Edgemere	259
Modern	295
Wessex	296
Ludlow Major	297
Double Roman	298
Flexible pipe	39091
Ventilation roof tiles	
(with catchment tray)	
Ashmore	263
Available in all colours to match main tiles	

In-line vents

Discreet high performance vent terminals for high/low level roof space ventilation. Suitable for soil/ mechanical ventilation. Minimum roof pitch 22.5° (except Melbourn 20° and Plain tiles 35°).



Contour tile vents	
Mendip (illustrated above)	452*
Ashmore	450*
Plain (clay and concrete)	455*
Edgemere	465*
Modern	451*
Wessex	459*
Ludlow Major	456*
Double Roman	453*
Ludlow Plus	457*
Anglia	460*
Melbourn Contour Vent	49000
Clay in-line tile ventilator	(no code)
Fibre cement in-line	
slate ventilator	(no code)
* suffix with colour code	
01 O 00 D 04 T	OF DI

01 Grey, 03 Brown, 04 Terracotta, 05 Red

> "socesia integrated solar roof systems

Compatible with the following Marley Eternit products:

- Modern concrete interlocking tiles
- · Domino clay interlocking tiles

marleyeternit.co.uk/solar

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Dry fix & ventilation www.marleyeternit.co.uk www.marleyeternit.co.uk Dry fix & ventilation | 51

Products for a sustainable future



Fibre cement

Fibre cement is an exceptionally sustainable material. Due to its light weight, the embodied carbon of fibre cement per m² is 5 times lower than heavy building materials*. It is a light weight material requiring lighter building structure with lighter foundations resulting in less concrete needed.

Marley Eternit fibre cement does not rust, rot or corrode, is made from simple, readily available materials – cement, water, cellulose, textile fibres – and has a low carbon footprint. The cement content is sourced from regional quarries and the cellulose from sustainable forests



Concrete

Our concrete range of roof tiles use in excess of 10% of recycled material (Ecologic uses not less than 55%) and are weatherproof, durable and long-lived.

Used with our dry fix and ventilation accessories, they offer complete roofing solutions that can incorporate high levels of thermal insulation; ventilation without condensation and simple, fast installation with no mortar. This means A+ rated constructions with little or no need for expensive repair and maintenance and long lived, sustainable buildings.



Clay

Our clay plain tiles have the lowest laid weight on the roof (compared with our competitors) and therefore require less fuel to transport the product to site.

The natural clay used in their manufacture is the very best quality and locally sourced (Etruria Marl) – minimising emissions and traffic on the road.

All Marley Eternit roofing materials can be used with various fixing systems to incorporate high levels of insulation thereby achieving increased thermal (and often acoustic) efficiencies.

→ More

To find more information on the sustainability of Marley Eternit systems, please visit: www.marleyeternit.co.uk/environment

One of the key ways in which products can contribute to better ratings in the Code for Sustainable Homes or BREEAM, is in the 'material' categories. To do this an A or A+ rating in the Green Guide is essential.

Domestic roof construction – pitched roof, timber construction

Pitched roof construction	Summary rating
Structurally insulated timber panel system with plywood (temperate EN 636-2) each side, roofing underlay, counterbattens, battens and concrete interlocking tiles (element no. 812410049)*	A ⁺
Structurally insulated timber panel system with plywood (temperate EN 636-2) each side, roofing underlay, counterbattens, battens and concrete plain tiles	A ⁺
Structurally insulated timber panel system with plywood (temperate EN 636-2) each side, roofing underlay, counterbattens, battens and photovoltaic roofing tiles	A ⁺
Timber trussed rafters and joists with insulation, roofing underlay, counterbattens, battens and UK produced clay plain tiles	A ⁺
Timber trussed rafters and joists with insulation, roofing underlay, counterbattens, battens and UK produced fibre cement slates	A ⁺
Timber trussed rafters and joists with insulation, roofing underlay, counterbattens, battens and resin bonded slates [†]	А

^{*} How construction ratings are determined: Each construction is given an element number and its rating is derived from 13 individual sub-ratings as shown below.

Breakdown of element no. 812410049 (by environmental issues):

Summary Rating	A^+	Acidification	Α	Climate change	A+
Water extraction	В	Mineral resource extraction	A ⁺	Stratospheric ozone depletion	В
Human toxicity			Nuclear waster (higher level)	Α	
Ecotoxicity to land	С	Eutrophication	Α	Photochemical ozone creation	ηВ

[†] Melbourn interlocking slates

Ratings of standard specifications under the Green Guide to Specification (masonry house specification)

Element	Specification	Rating	Upgrades to improve rating	Rating
Roof	Pitched roof, 100mm mineral wool laid between joists with further 200mm over joists.	A (2 credits)	Same structure but with interlocking concrete tiles or reclaimed slates/clay tiles	A+ (3 credits)

Code for Sustainable Homes

The Code replaced EcoHomes in England in 2007 and is designed to ensure homes are built to progressively improving sustainability ratings and that, by 2016, all newly built homes achieve the highest (level 6) zero carbon rating.

EcoHomes 2006 will continue to be used for refurbished housing in England and for all housing in Scotland and Wales.

Marley Eternit roofing products, in conjunction with insulation and other products can help materially improve the sustainability and code ratings of newbuild and refurbished housing by contributing credits in the 'Materials' category.

Materials credits within BREEAM

Credits are awarded in each area according to performance. A set of environmental weightings then enables the credits to be added together to produce a single overall score.

The building is then rated on a scale of Pass, Good, Very Good or Excellent.

Specifiers are encouraged to consider these issues at the earliest opportunity to maximise their chances of achieving a high BREEAM rating, BREEAM does this by rewarding:

- Materials with a low embodied energy (i.e. 'A+' rated in the Green Guide to Specification)
- · Responsibly resourced materials

Measuring environmental success www.marleyeternit.co.uk www.marleyeternit.co.uk Measuring environmental success

Other products from Marley Eternit

Profiled sheeting

Marley Eternit are the only manufacturer of fibre cement within the UK. We have been producing profiled sheeting for over 90 years and offer a wide range of corrosion-resistant and low maintenance systems.











Cedral & Cladding

With a palette of 86 subtle and inspiring colours in a variety of textures and finishes, our fibre cement cladding is worthy of the highest profile projects.











More from Marley Eternit

Installation and fixing guidance

A comprehensive Sitework guide is available on request, covering all aspects of delivery, storage, preparation and installation. It's more than 200 pages of excellent advice on all Marley Eternit in a handy A5 format for easy use on site.



Storage and mixing pallets

Remember, all slates and tiles, especially variegated and granular faced tiles, should be mixed from different pallet loads whilst the roof is being loaded to enhance the appearance when laid.



Download the Sitework guide from www.marleyeternit.co.uk/Resources

Fibre cement slates fixing

This booklet offers full guidance on the fixing of Marley Eternit fibre cement slates, using tail rivets. It covers the complete range of details as well as fixing slates with a number of dedicated fibre cement or Universal dry fix and ventilation systems.



Download the Slates Sitework guide from www.marleyeternit.co.uk/Resources

Dry fix and ventilation

Today's roofs need to be weather-proof and look good, as well as providing adequate ventilation. For the contractor, they also need to be quick and economical to install, and for the building owner they require minimal on-going maintenance but maximum durability and long life. Our ranges of dry fixed systems offer just this - performance, simplicity, speed of installation durability. They can help meet the Regs by offering ventilation for cold and warm roofs and our Universal range can be used with other manufacturers tiles and slates as well as our own.



UNIVERSAL Online

→ www.marleyeternit.co.uk/select



Technical Support

At times roofing and cladding can be complex and heavy going. That's why we're on hand to offer practical, experienced support in a host of useful ways. From creating bespoke NBS, BIM or CAD details, to fixing specs or installation guidance, we'll help with any aspect of your roofing or cladding project.

Technical Advisory Service

You, as our customer, require prompt, knowledgeable and detailed responses to a vast range of enquiries covering everything from the embodied energy of a typical roof tile, to the different ventilation options available, to which fixings to use.

Our Technical Advisory Service is staffed by a qualified team with specialist knowledge not only of all Marley Etemit products, but also crucially, how those systems integrate with other roofing components and comply with Building Regulations, Health and Safety, environmental and other critical roofing criteria.

In addition to general technical enquiries, the services available from the Technical Advisory Service include:

Fixing specifications: Bespoke fixing specifications can be provided, taking into account location, dimensions and degree of exposure for individual buildings.

Estimating the quantities: Calculation of materials required for any roofing project including tiles, battens, underlay, ancillary fittings and accessories.

contact tel 01283 722588 e-mail info@marleyeternit.co.uk

We also have on-line tools which can help create fixing specs or with estimating quantities.



Visit: www.marleyeternit.co.uk/Resources

Customer Services

Marley Eternit is committed to providing outstanding customer care and is staffed by experienced personnel. Services include:

Training Centre: We have a purpose-built training centre where we are able to impart our expertise through a range of practical and classroom courses.

Tel 08705 626400

Advice and ordering information contact tel 08705 626400 e-mail info@marleyeternit.co.uk

Literature: All current product and technical literature can be downloaded from: www.marleyetemit.co.uk/downloads

contact tel 08705 626400 e-mail info@marleyeternit.co.uk

Stockist information: To find details for stockists of Marley Eternit products, visit: www.marleyeternit.co.uk/stockists

contact tel 08705 626400 e-mail info@marleyeternit.co.uk

Marley Eternit roofing ranges

- → Clay and concrete plain tiles
- → Fibre cement slates
- → Interlocking slates
- → Interlocking tiles
- → Ventilation and dry fix roof accessories
- → Fittings and accessories

Marley Eternit also offer comprehensive ranges of Cladding, Building Boards, Profiled Sheeting and accessories

Information for all these products is available on request.

contact tel 08705 626400 e-mail info@marleyeternit.co.uk

Sample services

Samples of all clay and concrete tiles and slates and fibre cement or resin slates are available on request.

contact tel 01283 722588

e-mail info@marleyeternit.co.uk web marleyeternit.co.uk/samples

This publication is based on the latest information available at the time of printing. Due to product changes, improvements and other factors, Marley Eternit reserves the right to change or withdraw information contained herein without prior notice.

The information contained herein is based on Marley Elemits current recommendations intended for general roof applications, but where non-standard situations occur or where abnormal site exposure conditions apply, users must satisfy themselves as to the suitability of the recommendations given. Furthermore, the advice given in isolation should not be taken as providing any guarantee of the performance or suitability of the product for specific applications. For specific applications users should refer to the relevant Standards and Codes of Practice for guidance or contact the Technical Advisory Service for advice.

The printing process restricts the exact representation of colours. For true colour reference, please request product samples.

For tiles and slates, it is recommended that, to enhance the appearance of the roof, pallet loads are mixed whilst the roof is being loaded.

Efflorescence can occur from time to time in all products with a high cement content, but is a temporary effect and is not detrimental to the function of the product. Natural weathering will remove the salt deposits that cause this harmless effect.

All Maley Etenit Dry Fix products will have a life comparable with other components of the roofing system. Components manufactured from PVCu that are subjected to long term exposure to the weather will suffer UV degradation; this may cause facing and a reduction in impact strength allthough the performance of the product will remain unaffecting.

The photography shown in the document should not necessarily be taken as illustrating good practice.

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