



Dry fix and  
ventilation systems  
including UNIVERSAL accessories

Today's roofs need to be weatherproof and look good, as well as providing adequate ventilation. For you, 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.

Marley Eternit offer all this, as well as NHBC approved tile fixing and mortar bedding options that make it easy for you to comply with BS 5534.

### Let ME lighten your load

Trust Marley Eternit 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



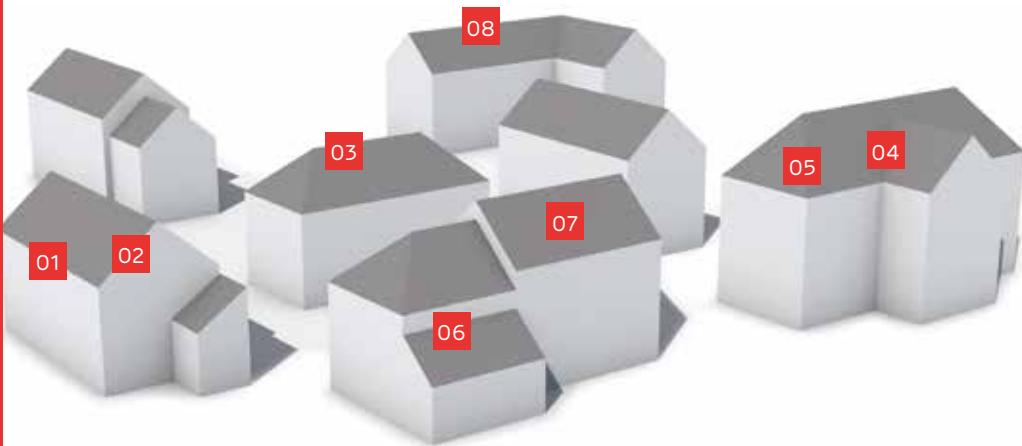
All factories certified to  
ISO 9001, ISO 14001,  
OHSAS 18001



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# Systems overview



**01 Eaves vent systems**



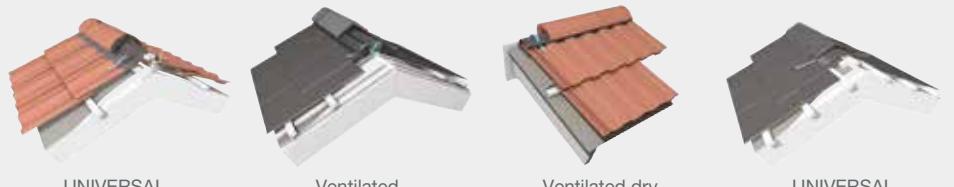
10mm and 25mm  
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dry valley system  
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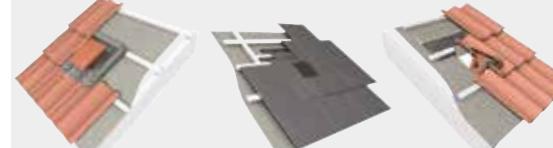
UNIVERSAL  
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**08 Ridge vent terminals**



Ridge vent and gas ridge  
vent terminals  
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# UNIVERSAL

The Universal ranges offer you a 'system in a box' – complete with dry fix and ventilation solutions suitable for all Marley Eternit roofing products and with other manufacturers' tiles and slates.

# System selector

	Ashmore	Anglia	Wessex	Ludlow Plus	Ludlow Major / Ecologic	Mendip	Double Roman	Modern / Duo Modern	Concrete plain tiles	Fibre cement slates	Edgemere range	Melode	Maxima	Lincoln	Clay plain tiles
<b>Universal roofing accessories</b>															
10mm eaves vent system	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
25mm eaves vent system	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dry verge										✓	✓	✓	✓	✓	✓
HipFast	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
RidgeFast	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tile vent	✓														
GRP dry valley system	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ridge Roll for fibre cement slates										✓					
<b>Dry verge</b>															
Cloak verge system	✓				✓		✓*	✓	✓						
Slate verge trim						✓									
Edgemere dry verge							✓								
Ashmore dry verge	✓				✓										✓
<b>Dry hip</b>															
Dry hip system				✓			✓	✓	✓	✓	✓	✓	✓	✓	✓
Dry hip with duo pitch ridges					✓										
<b>Dry valley</b>															
Plain tile valley	✓			✓											
GRP interlocking slate dry valley system					✓										
<b>Ventilated dry ridge</b>															
Ventilated dry ridge					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ventilated mono dry ridge					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fibre cement ventilated ridges						✓									
<b>Ventilation terminals</b>															
Gas vent ridge terminals					✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Ridge vent terminals					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
In-line vents and contour vents	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tile vent terminals		✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ridge vent for condensing boiler					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

\* Suitable for Modern only

# Resources



## Technical advice

Our Technical Advisory Service is staffed by a qualified team with specialist knowledge.

**Call 01283 722588 or email [info@marleyeternit.co.uk](mailto:info@marleyeternit.co.uk)**



## Samples

Samples of clay interlocking and plain tiles, fibre cement slates and concrete tiles are available on request.

**Tel 01283 722588  
[marleyeternit.co.uk/samples](http://marleyeternit.co.uk/samples)**



## Customer services

Knowledgeable and friendly staff are available to offer quotations, expert advice, deal with orders and all other enquiries.

**Call 08705 626400 or email [info@marleyeternit.co.uk](mailto:info@marleyeternit.co.uk)**



A range of Continuous Professional Development roofing seminars accredited by the RIBA CPD Certification Service. For more information or to make a booking: [marleyeternit.co.uk/cpd](http://marleyeternit.co.uk/cpd)



Create instant fixing specifications based on the geographical location and building dimensions of specific building projects.

[marleyeternit.co.uk/tilefix](http://marleyeternit.co.uk/tilefix)



## 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. To find out more about our courses, visit: [marleyeternit.co.uk/training](http://marleyeternit.co.uk/training)



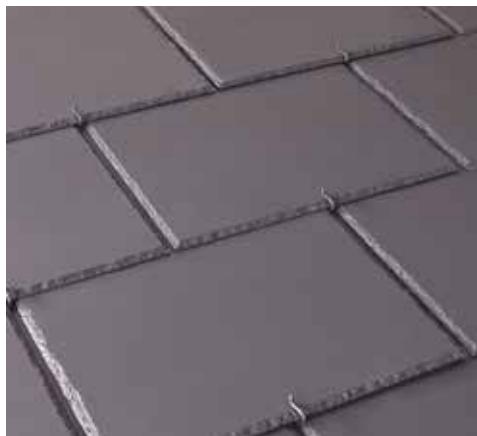
## Fixing instructions and literature

Comprehensive sitework, fixing and installation literature and videos: [marleyeternit.co.uk/resources](http://marleyeternit.co.uk/resources)

All current product and technical literature can be downloaded: [marleyeternit.co.uk/downloads](http://marleyeternit.co.uk/downloads)

# BS 5534 solutions

BS 5534 is the British Standard for Slating and Tiling and provides the industry with guidance on best practice relating to the installation of roofs.



Contained within it is a vast array of information, ranging from batten selection, to methods of fixing, through to wind uplift formulas, which provide manufacturers like us with a means of calculating fixing specifications.

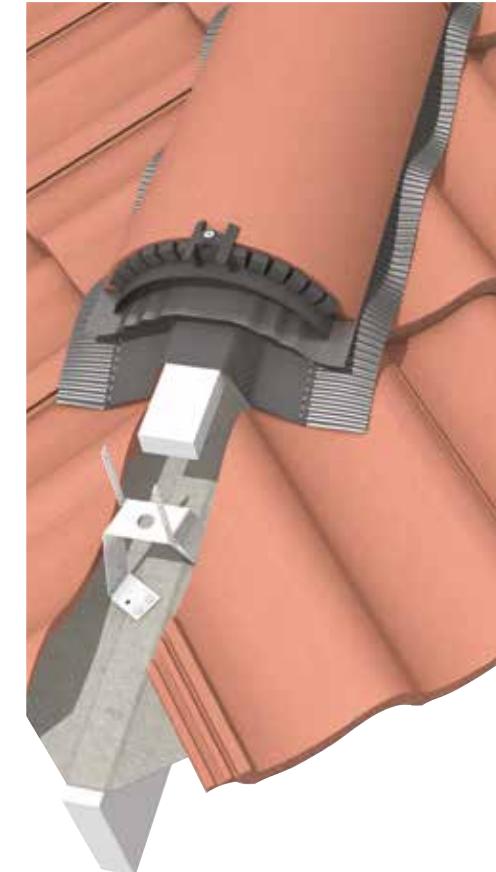
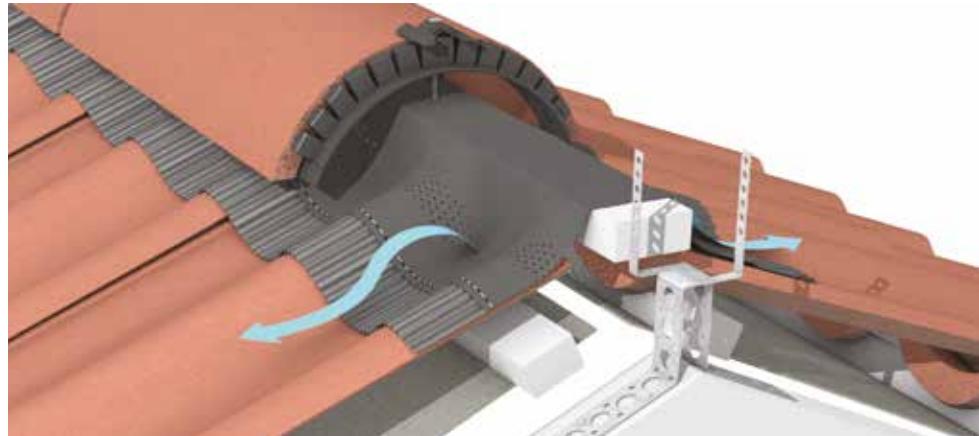
## BS 5534 key factors

With extreme weather events such as gale force winds, driving rain and flooding on the rise and placing more strain on the UK roofscape than ever before, the standard was radically improved in 2014.

Critically, the changes now require mechanical fixing of all fittings, even if mortar bedded, and increased levels of tile fixings, especially clipping.

## Quality as standard

Although dry fix products and systems have been common place for many years, not all perform to the same level. Marley Eternit dry fix systems are thoroughly tested and offer superior mechanical fixing, durability and performance when compared to other systems.



# The pocket expert

Our new sitework guide app is your pocket expert on installing your dry fixed roof to the latest British Standards.

Also includes general setting out and fixing guidance.



Find information on every Marley Eternit dry fix and ventilation system

All BS 5534 and BS 5250 compliant.



Search by product

To find the right tile or slate fixing information.



Search by roof area

To find the information you need, straight away.



Follow easy step-by-step fixing instructions

Making it quicker for you to read on site.



Find out how Marley Eternit can help you

Discover the free of charge services and support available.



Play embedded videos

Short, step by step 'how to' videos with hands on demonstrations.

Download from the App Store, Google Play or Amazon by searching for Marley Eternit, or visit [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)

# UNIVERSAL eaves vent systems

For use with all tiles and slates



## Advantages

- > Can be used with all Marley Eternit and other manufacturers' tiles and slates
- > Simple and fast to install
- > Eaves-to-ridge or eaves-to-eaves ventilation
- > 12.5-55° pitched roofs
- > Allows clip fixing of tiles at eaves
- > Compresses insulation ensuring airflow
- > Prevents ponding of water
- > Prevents ingress of birds, vermin and insects

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > marleyeternit.co.uk/pocketexpert

### Find out more...

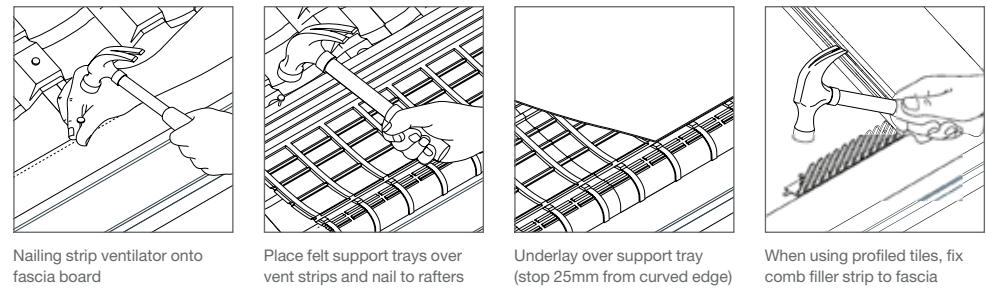
- > marleyeternit.co.uk/eavesvent
- > tel 01283 722588



## Key components

	Code	Code	
Universal 10mm eaves vent system (6m pack) comprising of:	46350	Universal 25mm eaves vent system (6m pack) comprising of:	46351
<ul style="list-style-type: none"> <li>&gt; Eaves rafter roll (6m)</li> <li>&gt; Felt support tray (10 No.)</li> <li>&gt; 10mm strip ventilator (6 No.)</li> </ul>		<ul style="list-style-type: none"> <li>&gt; Eaves rafter roll (6m)</li> <li>&gt; Felt support tray (10 No.)</li> <li>&gt; 10mm strip ventilator (6 No.)</li> </ul>	
Also available:	30425	Also available:	46353
Continuous rafter roll pack (2 No. 6m)	46323		

## Fixing overview



Nailing strip ventilator onto fascia board

Place felt support trays over vent strips and nail to rafters

Underlay over support tray  
(stop 25mm from curved edge)

When using profiled tiles, fix comb filler strip to fascia

# UNIVERSAL dry verge systems

For use with large format concrete interlocking tiles



## Advantages

- > Meets BS 5534 requirements and NHBC guidelines
- > Strong and durable
- > Weathertight and maintenance free
- > Mechanically fixed
- > Emulates appearance of traditional verge
- > Simple and fast to install
- > Also suitable for verges without bargeboard
- > Dry verge refurbishment kit allows retro-fit

## Fixing information

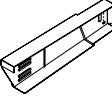
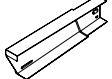
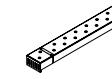
- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > marleyeternit.co.uk/pocketexpert

### Find out more...

- > marleyeternit.co.uk/dryverge
- > tel 01283 722588



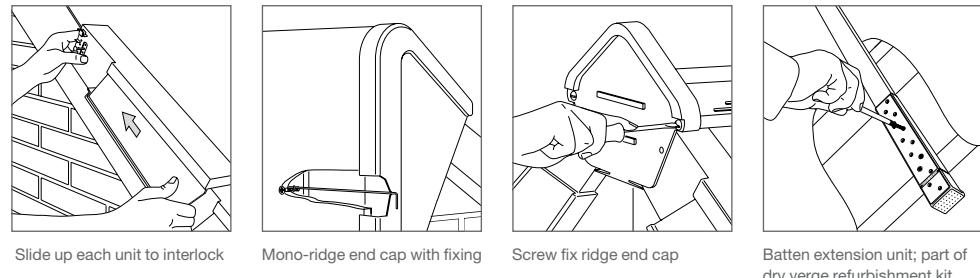
## Key components

Code	Code
 Universal verge unit (305-345mm gauge, 75-115mm lap) Left hand Right hand	391* 392*
 Edgemere verge unit (305-345mm gauge, 75-115mm lap) Left hand Right hand	381† 382†
 Modern ridge end cap	394*
 Segmental ridge end cap	395*
 Edgemere ridge end cap	384†
 Modern mono-ridge end cap Left hand Right hand	408* 409*
 Segmental mono-ridge end cap Left hand Right hand	427* 428*
 Dry verge refurbishment kit (to fix 24 units)	53580
 Dry verge fixing kit (to fix 28 units)	53930
 Edgemere dry verge fixing kit (to fix 28 units)	53830

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

† Suffix with colour code: 01 Grey, 03 Brown

## Fixing overview



Slide up each unit to interlock

Mono-ridge end cap with fixing

Screw fix ridge end cap

Batten extension unit; part of dry verge refurbishment kit



For Marley Eternit  
dry fix roofing systems

# Continuous dry verge systems

For use with fibre cement slates, Ashmore interlocking tiles, concrete plain tiles and clay plain tiles



Fibre cement  
slates verge trim

## Advantages

- > Meets BS 5534 requirements and NHBC guidelines
- > Strong and durable
- > Weathertight and maintenance free
- > Creates continuous clean verge detail

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)



## Find out more...

- > [marleyeternit.co.uk/dryverge](http://marleyeternit.co.uk/dryverge)
- > tel 01283 722588

## Key components

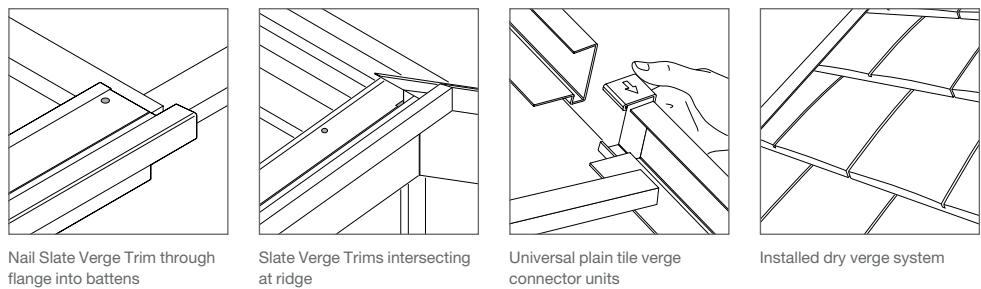
		Code
	Fibre cement slates verge trim (3m)	MA42206
	Universal plain tile dry verge Verge section (3m)	38501
	Modern ridge end cap	394*
	Plain tile dry verge fixing kit*	38510

\* one kit per length of verge



Universal Plain  
tile dry verge

## Fixing overview



Nail Slate Verge Trim through flange into battens

Slate Verge Trims intersecting at ridge

Universal plain tile verge connector units

Installed dry verge system

# Cloak verges

For use with clay and concrete plain tiles, Mendip, Modern and Double Roman interlocking tiles



## Advantages

- > Meets BS 5534 requirements and NHBC guidelines
- > Strong and durable
- > Weathertight and maintenance free
- > Suitable with or without bargeboard
- > Creates continuous, clean verge
- > Suitable for range of laps
- > Maximum pitch of 55° if top tile mitred
- > Colour matched to main tiles

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)



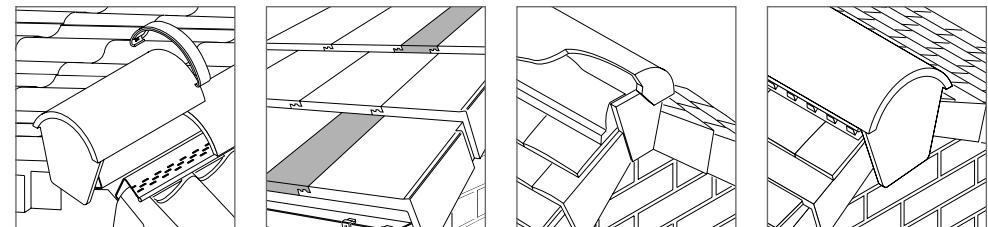
## Find out more...

- > [marleyeternit.co.uk/cloakverge](http://marleyeternit.co.uk/cloakverge)
- > tel 01283 722588

## Key components

	Code
Mendip cloak verge Left hand	245
Mendip cloak verge Right hand	246
Mendip half tile	247
Mendip fixing kit	54252
Double Roman cloak verge Left hand	265
Double Roman cloak verge Right hand	266
Double Roman half tile	102
Double Roman fixing kit	54252
Modern cloak verge Left hand	371
Modern cloak verge Right hand	370
Modern half tile	372
Modern fixing kit	53730
Concrete plain tile cloak verge Left hand	249
Concrete plain tile cloak verge Right hand	250
Clay plain tile cloak verge Left hand	–
Clay plain tile cloak verge Right hand	–

## Fixing overview



Completing interlocking profiled tile cloak verge at ridge

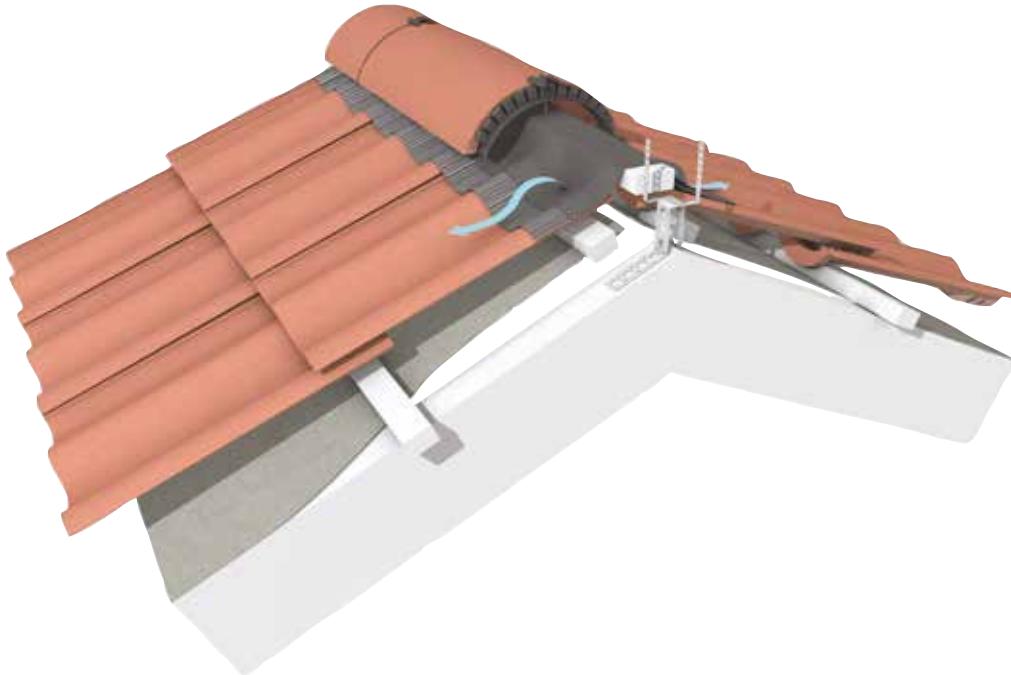
Maintaining broken bond with half tiles for Modern cloak verge

Stop end ridge tile used to finish clay plain tile cloak verge at ridge

Concrete block end ridge finishing plain concrete cloak verge tiles

# UNIVERSAL RidgeFast system

For use with all tiles and slates



## Advantages

- > Meets BS 5534 requirements and NHBC guidelines
- > Simple and fast to install
- > Can be used with all fibre cement slates, concrete tiles and slates
- > Completely dry fixed system
- > Suitable with standard ridge tiles
- > Provides 5mm continuous ventilation along the ridge

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)

## Find out more...

- > [marleyeternit.co.uk/ridgefast](http://marleyeternit.co.uk/ridgefast)
- > tel 01283 722588

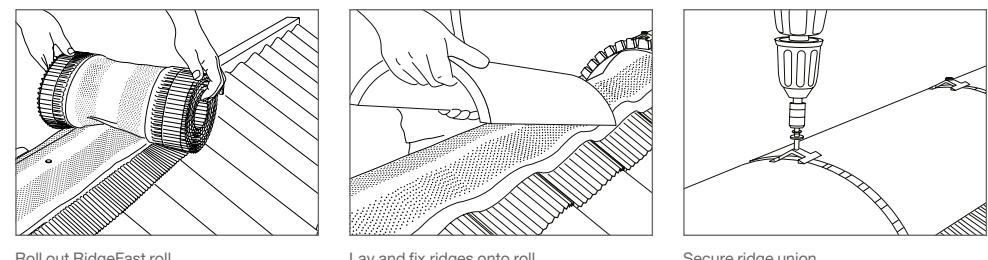


## Key components

Code	Code
Universal RidgeFast system (6m pack) comprising of:	53300
> Ridge roll (6m)	
> Ridge batten brackets (10 No.)	
> Ridge unions (13 No.)	

\* For clay half round ridge with profiled tiles

## Fixing overview



Roll out RidgeFast roll

Lay and fix ridges onto roll

Secure ridge union

# Ventilated dry ridge system

For use with all large format interlocking tiles and fibre cement slates



## Advantages

- > Meets BS 5534 requirements and NHBC guidelines
- > Simple and fast to install
- > Weathertight and maintenance free
- > Can be used up to 55° pitch
- > Provides 5mm continuous ventilation along the ridge
- > Can be used with all fibre cement slates, concrete tiles and slates
- > Fully compatible with dry hip system

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)



## Find out more...

- > [marleyeternit.co.uk/dryridge](http://marleyeternit.co.uk/dryridge)
- > tel 01283 722588



For Marley Eternit  
dry fix roofing systems

## Key components

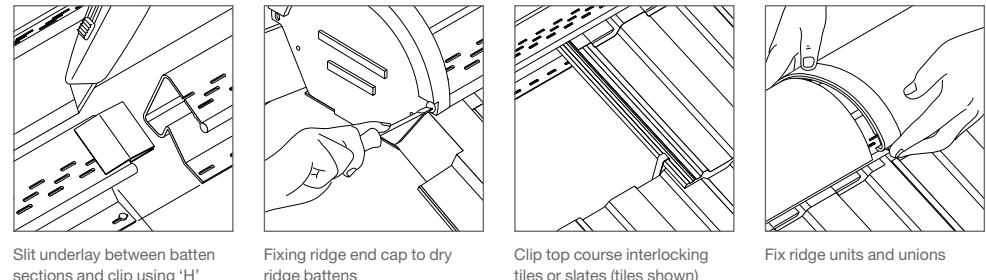
	Code
Batten sections (3m) High profile‡ Low profile†	41201 41101
Steep pitch batten section (45-55°) (3m) High profile‡ Low profile†	381† 382†
Segmental ridge junction apex cap	439*
Modern ridge junction apex cap	440*
Modern ridge union	414*
Segmental ridge union	413*
Segmental mono-ridge union end cap Left hand Right hand	423* 427* 428*
Filler units Double Roman (vented) Ludlow Major (vented) Ludlow Plus (vented) Mendip (vented) Wessex (vented) Anglia (vented) Modern/Edgemere/Ashmore (vented)	42105 41601 41508 41701 41901 41506 41501
Dry ridge top course clip and nail pack Modern/Duo Modern Edgemere/Duo Edgemere	30273 30297

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

‡ For Double Roman, Mendip, Wessex and Anglia

† For Ashmore, Edgemere range, Modern, Duo Modern, Ludlow Plus, Ludlow Major and fibre cement slates

## Fixing overview



Slit underlay between batten sections and clip using 'H' section piece

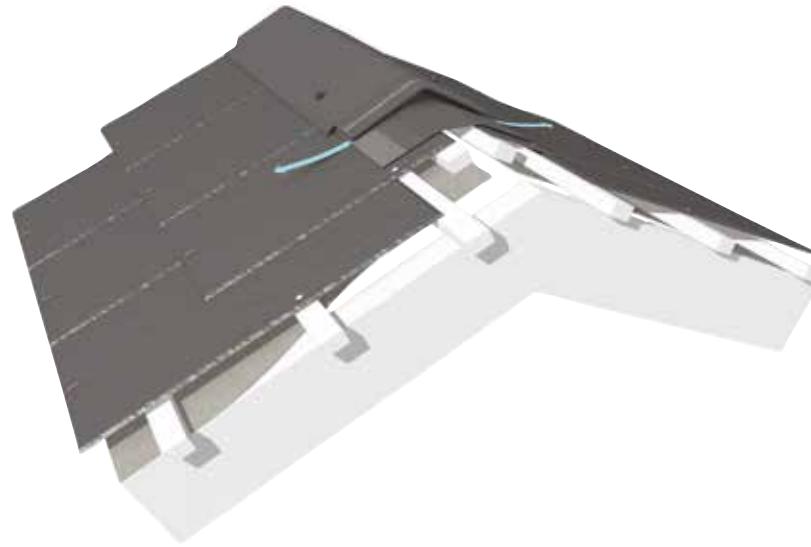
Fixing ridge end cap to dry ridge battens

Clip top course interlocking tiles or slates (tiles shown)

Fix ridge units and unions

# UNIVERSAL ridge roll

For use with fibre cement slates and ridges



## Advantages

- > Simple and fast to install
- > Maintenance free
- > Can be used for ridges and hips
- > Completely dry fixed system
- > Provides 5mm continuous ventilation along the ridge
- > Pitch range 15° to 60°

## Fixing information

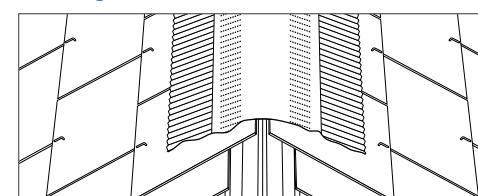
- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)

## Find out more...

- > [marleyeternit.co.uk/dryridge](http://marleyeternit.co.uk/dryridge)
- > tel 01283 722588



## Fixing overview



Ridge roll with ridges

# GRP slate valley systems

For use with fibre cement slates



## Advantages

- > Dry fix, mortar free system
- > Durable GRP technology
- > Simple and fast installation
- > Accommodates up to 15° pitch variance either side of the valley

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)

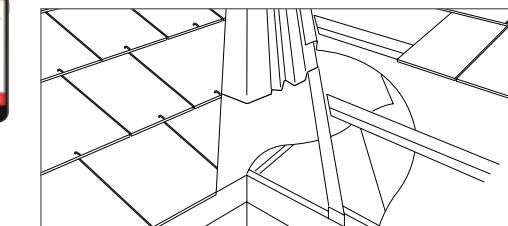
## Find out more...

- > [marleyeternit.co.uk/ventilation](http://marleyeternit.co.uk/ventilation)
- > tel 01283 722588

## Key components

	Code
GRP slate dry valley trough (22.5° to 40°)	30578

## Fixing overview



Clipped, raking cut interlocking slates laid with GRP valley trough

# UNIVERSAL GRP dry valley

For use with all concrete plain and interlocking tiles



## Advantages

- > Dry fix, mortar-free system
- > Durable GRP technology
- > Simple and fast installation
- > Can accommodate up to 20° pitch variance either side of valley
- > Performs on pitches up to 60°
- > Gives the appearance of a close cut roof

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)

## Find out more...

- > [marleyeternit.co.uk/dryvalley](http://marleyeternit.co.uk/dryvalley)
- > tel 01283 722588



## Key components

	Code
GRP valley (low profile)	30422
GRP valley (high profile)	30421

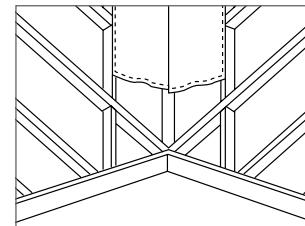
## Also available:

Tile tail clips (pack)	43602
Head clips (pack)	43604

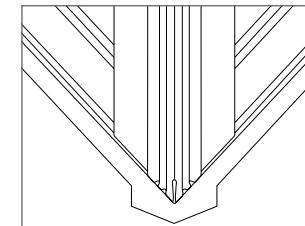
## Compatibility

	High profile	Low profile
Ashmore		✓
Anglia	✓	
Double Roman	✓	
Edgemere/Duo Edgemere		✓
Lincoln	✓	
Ludlow Major	✓	
Ludlow Plus	✓	
Maxima	✓	
Melodie	✓	
Mendip	✓	
Modern/Duo Modern		✓
Plain		✓
Wessex	✓	

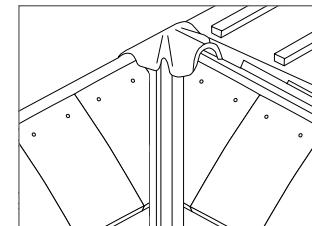
## Fixing overview



Valley board construction



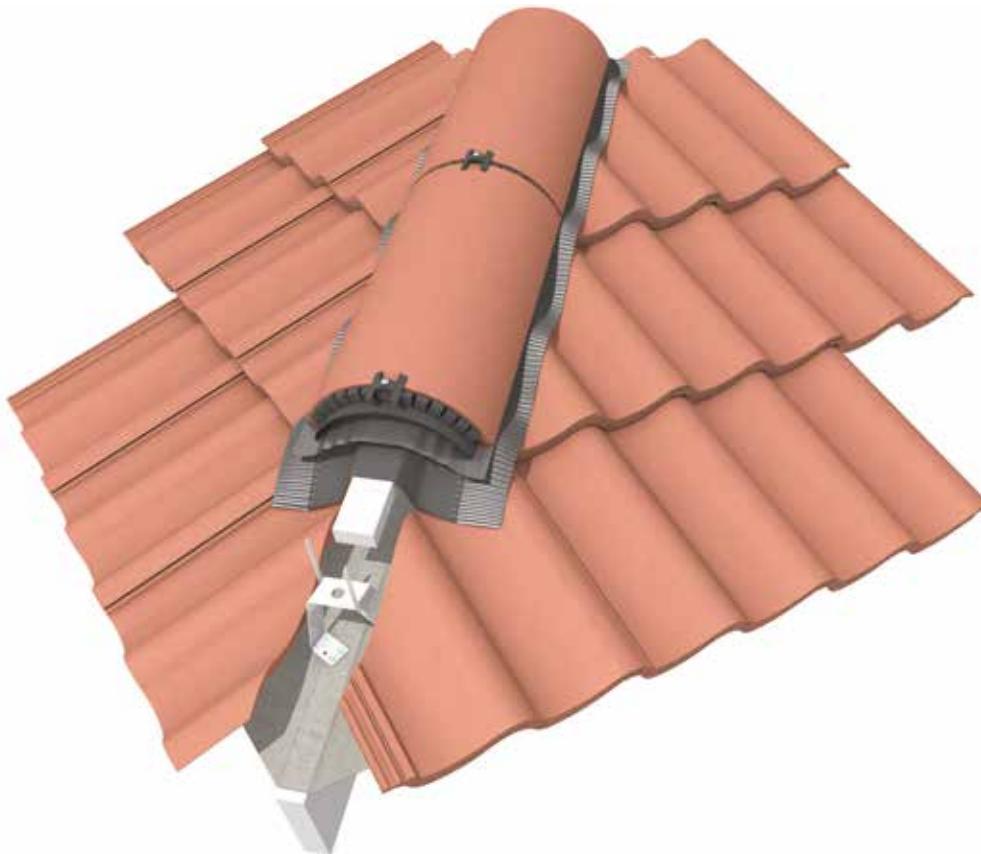
Placement and fixing of valley trough



Tiles or slates cut to rake of valley

# UNIVERSAL HipFast system

For use with all tiles and slates



## Advantages

- > Meets BS 5534 requirements and NHBC guidelines
- > Simple and fast to install
- > Can be used with all Marley Eternit and other manufacturers' tiles and slates
- > Completely dry fixed system
- > Suitable for standard hip tiles

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > marleyeternit.co.uk/pocketexpert
- Find out more...**
- > marleyeternit.co.uk/hipfast
- > tel 01283 722588



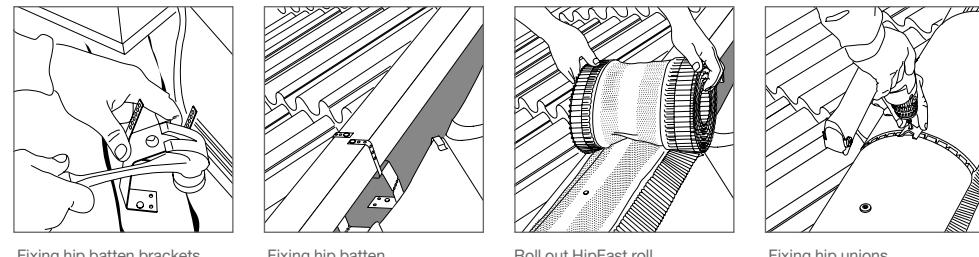
## Key components

Code	Code
Universal HipFast system (6m pack) comprising of:	53400
> Hip roll (6m)	
> Hip batten brackets (6 No.)	
> Ridge unions (13 No.)	
Tapered ridge filler (2 No.)*	-
1m length hip support trays 715mm each (9 No.)	34002
RidgeFast/HipFast union pack (6 No. unions)	53303
100mm x 4.8mm deep ridge screw pack**	70000
Secret cut tile clip pack	43607

\* For use with Modern ridge tiles only

\*\* For clay third round hips with profiled tiles

## Fixing overview



Fixing hip batten brackets

Fixing hip batten

Roll out HipFast roll

Fixing hip unions

# Dry hip system

For use with all concrete tiles



## Advantages

- > Meets BS 5534 requirements and NHBC guidelines
- > Simple fast installation
- > Weathertight and maintenance free
- > Can be used up to 55° pitch
- > Can be used with all Marley Eternit concrete tiles
- > Fully compatible with ventilated dry ridge system

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)



## Find out more...

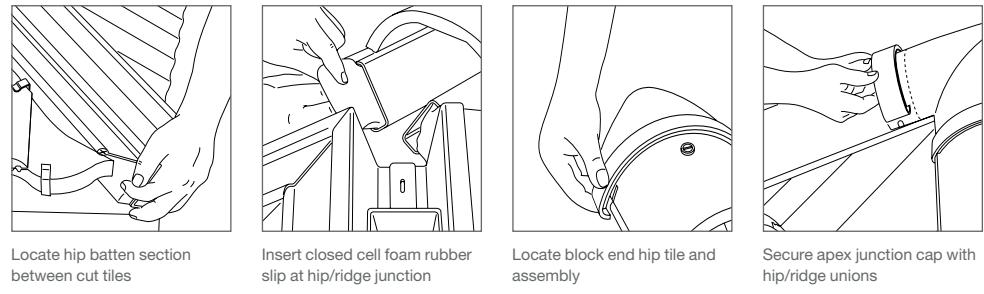
- > [marleyeternit.co.uk/hipfast](http://marleyeternit.co.uk/hipfast)
- > tel 01283 722588

## Key components

	Code
Dry hip batten section (low profile)	43300
Dry hip batten section fixing kit (1 kit per 3m batten section) Low profile	54360
Modern stop end hip tile	292
Modern ridge union	4140*
Modern hip apex cap 15-24° 25-35° 36-45°	4381* 4382* 4383*
Third round stop end hip tile	291
Third round ridge union	4350
Third round hip apex cap 15-24° 25-35° 36-45°	4371* 4372* 4373*

\* Suffix with colour code: 1 Grey, 3 Brown, 4 Terracotta

## Fixing overview



Locate hip batten section between cut tiles

Insert closed cell foam rubber slip at hip/ridge junction

Locate block end hip tile and assembly

Secure apex junction cap with hip/ridge unions



For Marley Eternit dry fix roofing systems

# Top abutment ventilation system

For use with all large format interlocking tiles and fibre cement slates



## Advantages

- > Provides ventilation for lean-to roofs
  - > Completely dry fixed
  - > Provides continuous 5mm ventilation along abutment
  - > Provides eaves-to-abutment ventilation when used with universal eaves system

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
  - > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)



[Find out more...](#)

- > marleyeternit.co.uk/abutment
  - > tel 01283 722588

## Key components

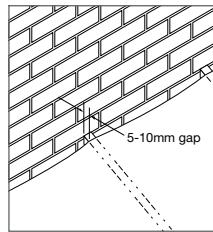
	Code		Code
Batten sections (3m)		Fixing kit (6m)	41000
High profile‡	41201		
Low profile†	41101		
Steep pitch batten section (45-55°) (3m)		Filler units	
High profile‡	41202	Double Roman (vented)	42105
Low profile†	41102	Ludlow Major (vented)	41601
Lead support strip	42505	Ludlow Plus (vented)	41508
		Mendip (vented)	41701
		Wessex (vented)	41901
		Anglia (vented)	41506
		Modern/Edgemere/Ashmore (vented)	41501

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

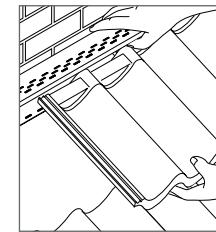
‡ For Double Roman, Mendip, Wessex and Ang

† For Ashmore, Edgemere range, Modern, Duo Modern, Ludlow Plus, Ludlow Major and fibre cement slates

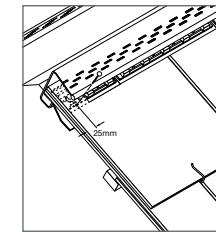
## Fixing overview



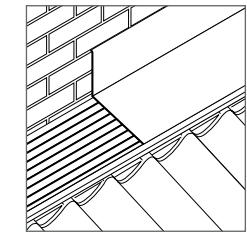
Felt and batten normally



## Insertion of profiled tiles into batten section



## Insertion of fibre cement slates into batten section



Finish by dressing lead onto lead support strips

# UNIVERSAL tile vent terminal

For use with large format interlocking tiles



## Advantages

- > Ideal for natural, mechanical or soil pipe ventilation
- > Weatherproof, tough and durable
- > Suitable for large format and most '15 x 9' interlocking tiles
- > 15,000mm<sup>2</sup> free area of ventilation
- > Choice of 3 colours

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > marleyeternit.co.uk/pocketexpert



## Find out more...

- > marleyeternit.co.uk/tilevent
- > tel 01283 722588



## Key components

	Code
Universal tile vent terminal	
Grey	36700
Brown	36703
Terracotta	36704

## Also available:

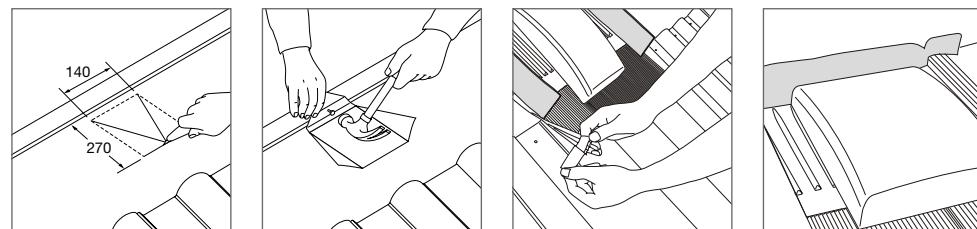
	Flexible pipe*	39091
	(ID 110mm)	

\* Universal tile vent terminal must be used in conjunction with flexible pipe only.

## Pressure resistance values

Pa (litres/sec airflow)	15	30	60
15,000mm <sup>2</sup> free area	35	48	67

## Fixing overview



Form a 'V' shaped cut in the underlay  
140  
270

Fold up and secure the underlay as shown

Ensuring good seal between Universal tile vent terminal and tiles

Finishing tiling and creating a weatherproof seal

# Contour in-line vents

For use with all plain tiles and concrete interlocking tiles



## Advantages

- > Contoured to match tile profile
- > Almost invisible from ground level
- > Ideal for mid slope roof ventilation
- > Internal spigot for connection to mechanical extract or soil pipe ventilation

Contour vents have a minimum pitch of 22.5°

## Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)



## Find out more...

- > [marleyeternit.co.uk/ventilation](http://marleyeternit.co.uk/ventilation)
- > tel 01283 722588



For Marley Eternit  
contour tile vent  
terminals

## Key components

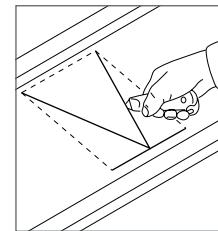
	Code	Also available:	Code
	455*	 Flexible pipe (ID 110mm)	39091
	465		
	452		
	451		
	460		
	459		
	456		
	457		
	453		
	450		

\* Available in grey and brown

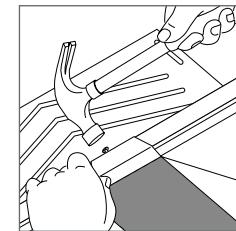
## Pressure resistance values

Tile	Free area of ventilation mm <sup>2</sup>	Pa (litres/sec airflow)		
		15	30	60
Anglia	15,000	8.3	33.2	132.0
Ashmore	10,000	18.0	32.0	95.9
Double Roman	13,500	7.3	29.7	120.9
Edgemere	10,000	7.5	25.0	87.0
Ludlow Major	11,000	9.1	36.3	144.3
Ludlow Plus	15,000	9.6	38.0	149.9
Mendip	14,500	7.7	31.0	124.8
Modern	10,000	7.9	31.2	122.5
Plain	10,000	13.6	53.7	211.0
Wessex	12,500	6.8	28.2	115.8

## Fixing overview



Make aperture in underlay using template



Secure soaker tray

## Clay in-line vent

For use with clay plain tiles



### Advantages

- > Real clay tile slips provide visual integration on roof slope
- > 7,500mm<sup>2</sup> free area of ventilation
- > Ideal for natural, mechanical or soil pipe ventilation

### Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)

### Find out more...

- > [marleyeternit.co.uk/ventilation](http://marleyeternit.co.uk/ventilation)
- > tel 01283 722588

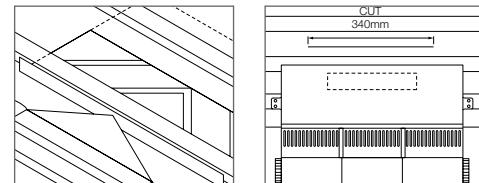
### Pressure resistance values

Pa (litres/sec airflow)	15	30	60
7,500mm <sup>2</sup> free area	17.0	66.8	265.0

### Key components

Code	Image
Clay in-line tile vent	
In-line tile vent adaptor	
Flexible pipe (sold separately)	

### Fixing overview



Mark throat position and cut underlay

Position and fix in-line vent unit

## Fibre cement in-line vent

For use with 600x300mm fibre cement slates



### Advantages

- > Provides visual integration with roof slope
- > Ideal for natural, mechanical or soil pipe ventilation
- > 10,000mm<sup>2</sup> free area of ventilation

### Fixing information

- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)

### Find out more...

- > [marleyeternit.co.uk/ventilation](http://marleyeternit.co.uk/ventilation)
- > tel 01283 722588

### Pressure resistance values

Pa (litres/sec airflow)	15	30	60
10,000mm <sup>2</sup> free area	10.9	41.5	162.0

Fibre cement in-line vent has a minimum pitch of 20°

### Key components

Code	Image
In-line slate vent	
In-line fibre cement/natural PVCu slate ventilator	
Flexible pipe (sold separately)	

### Fixing overview

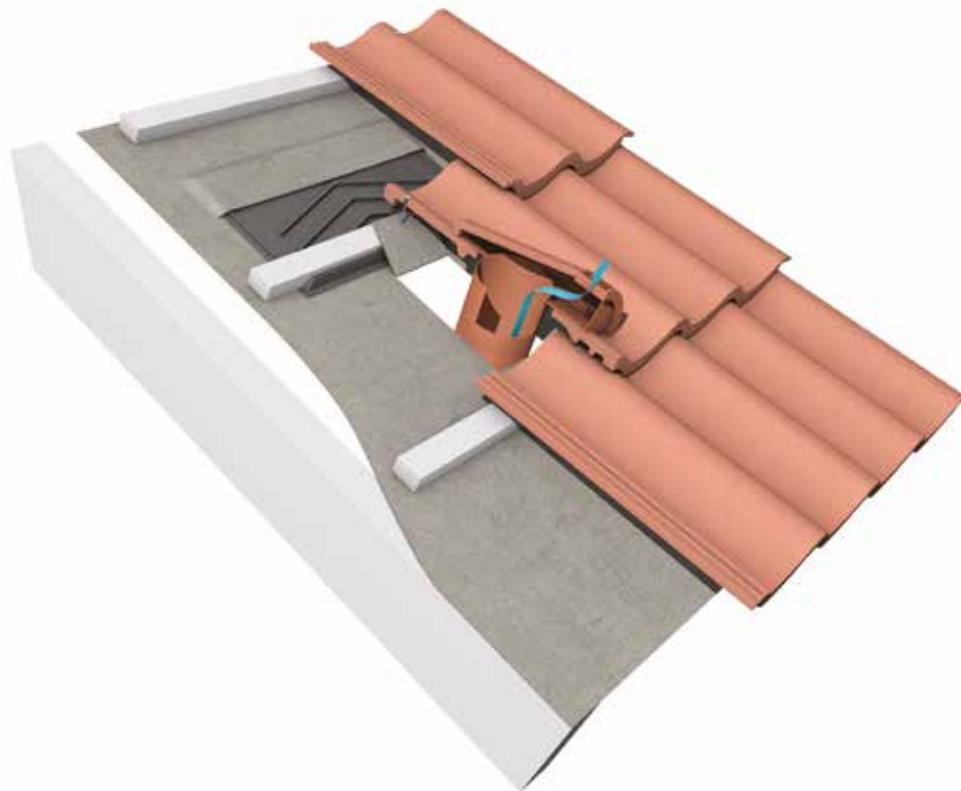


Secure additional support batten

Determine position of ventilator

# Tile ventilation terminals

For use with large format concrete interlocking tiles including Ashmore



## Advantages

- > Wide range of colours and finishes
- > Ideal for natural, mechanical or soil pipe ventilation

## Fixing information

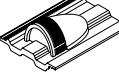
- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > [marleyeternit.co.uk/pocketexpert](http://marleyeternit.co.uk/pocketexpert)



## Find out more...

- > [marleyeternit.co.uk/ventilation](http://marleyeternit.co.uk/ventilation)
- > tel 01283 722588

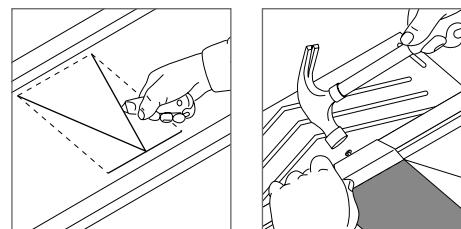
## Key components

	Code		Code		
	Edgemere tile vent terminal	259		Double Roman tile vent terminal	298
	Ludlow Major tile vent terminal	297		Wessex tile vent terminal	296
	Mendip tile vent terminal	294		Ashmore ventilation roof tile (for natural ventilation only)	263
	Modern/Duo Modern tile vent terminal	295		Flexible pipe	39091

## Key components

	Code
	
Flexible pipe	39091

## Fixing overview



Make aperture in underlay using template

Secure soaker tray

## Pressure resistance values

Tile	Free area of ventilation mm <sup>2</sup>	Pa (litres/sec airflow)		
		15	30	60
Ashmore	4,500	–	–	–
Double Roman	7,614	6.5	24.8	89.1
Edgemere	7,081	7.6	28.6	106.7
Ludlow Major	7,665	6.7	24.3	88.4
Mendip	7,107	7.6	27.9	101.7
Modern	7,081	7.6	28.6	106.7
Wessex	6,929	7.9	29.7	110.6

# Ridge vent terminals

Available to suit concrete and fibre cement ridges



## Advantages

- > Suitable for mechanical or passive stack ventilation
- > Compatible with our range of ventilated dry ridge systems
- > Simple and fast installation

## Fixing information

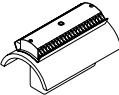
- > Sitework guide app for fixing instructions – download from the App Store, Google Play or Amazon by searching for Marley Eternit
- > marleyeternit.co.uk/pocketexpert

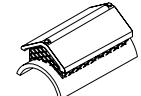
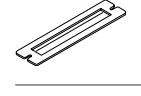
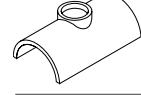


## Find out more...

- > marleyeternit.co.uk/ventilation
- > tel 01283 722588

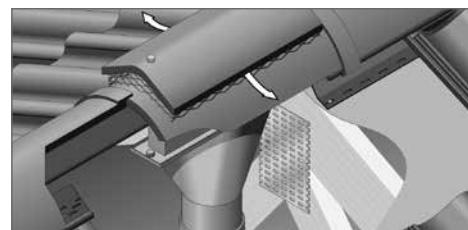
## Key components

For concrete tiles and slates	Code
 Ridge vent terminal	198
 Plumbers accessory pack (for ridge vent terminals)	39090
For fibre cement slates	Code
 In-line ridge ventilator plus extension sleeve (900mm) 20°, 25°, 30°, 35°, 40°, 45°	-
 In-line ridge ventilator stepped adaptor	-
 Flexible pipe (sold separately)	39091

Also available: Gas vent ridge terminals for concrete tiles and slates	Code
 Gas vent ridge terminal (with extension piece)	256
 Spare gasket set	30346
 Gas vent ridge flue terminal for condensing boilers	254*
Segmental	255*
Modern	420*
Modern/segmental adaptor ridge union	420*

\* Made to order

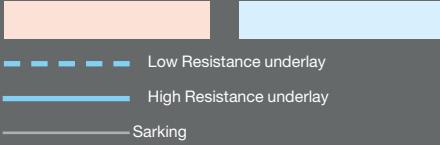
## Fixing overview



Installation of gas vent ridge terminal (with flexible pipe)

# Cold roof ventilation requirements

## Key to illustrations



## Normal ceiling

A ceiling where no attempt has been made to seal all gaps or penetrations (e.g. light drops, pipes etc.)

## Well sealed ceiling

The design avoids construction gaps, especially at the wall ceiling junction with dry lining construction and holes in the ceiling.

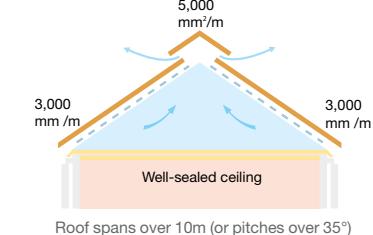
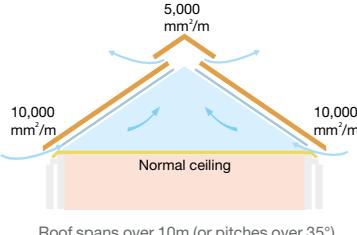
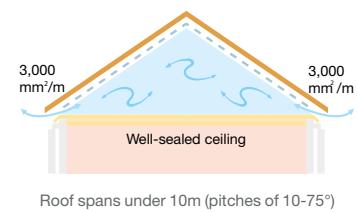
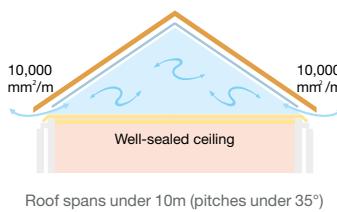
No access door or hatch should be located in rooms where large amounts of moisture are produced, including kitchens or bathrooms.

The ceiling is sealed to the external walls to limit any leakage through cracks. The head of all cavities in the external walls, party walls and partition walls is sealed to prevent transfer of warm moist air into the loft.

## Rooftops with a 'well-sealed' ceiling

### Bituminous felts and vapour impermeable underlays (high resistance)

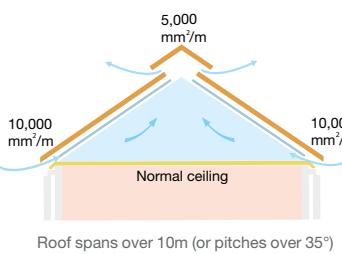
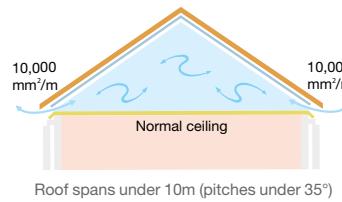
The ventilation requirements for cold roofs with vapour impermeable underlays and 'well-sealed ceilings' are the same as for those without. Installing a 'well-sealed ceiling' will make the roof more energy efficient because airtightness will have prevented heat loss through convection. Heat loss due to low speed air currents over the cold side of the insulation (caused by ventilation) is negligible.



## Rooftops with a 'normal' ceiling

### Bituminous felts and vapour impermeable underlays (high resistance)

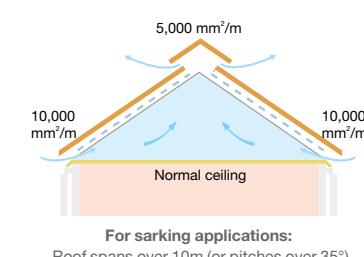
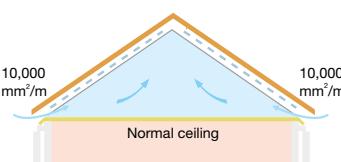
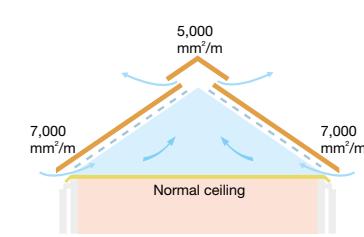
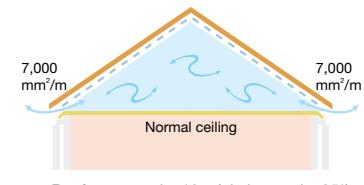
Ventilation of the loft space under a traditional bituminous felt or non-vapour permeable underlayment has proven to be an effective and robust solution when used with suitable high and low level ventilation.



### Vapour permeable underlays (low resistance)

The use of a low resistance underlayment can reduce the requirement for ventilating the roof space. On fully boarded roofs, i.e. sarking, low resistance underlays should be treated as impermeable and the roof space below ventilated in accordance with the high resistance underlayment requirements described above.

Where a close-fitting roof covering has been used, the batten spacing should be ventilated in accordance with BS 5250: 2011 using counterbattens.



### Fully breathable underlays

The British Standard mainly distinguishes between two types of underlayment: high resistance (HR) impermeable and low resistance (LR) vapour permeable. However, there are some manufacturers of low resistance underlays that claim their products are fully breathable, negating the requirement for ventilation as set out in the British Standard.

There are a number of factors to consider before using any type of low resistance underlayment, including:

1. How well-sealed the ceiling is
2. Whether a close-fitting roof covering is being used
3. Obstructions in the roof space

In all circumstances, Marley Eternit recommend the use of additional ventilation when using any type of low resistance underlayment.

This can be achieved through the use of ventilated eaves and ventilated ridge systems.

### Close fitting coverings

When specifying a close fitting covering which is relatively airtight (such as fibre cement slates), there is a risk of interstitial condensation forming on the underside of the underlayment and the external covering.

To avoid this risk, the batten spacing should be ventilated in accordance with BS 5250:2011 using counterbattens.

# Warm roof ventilation requirements

## Key to illustrations

- - - - Low Resistance underlay
- — — — High Resistance underlay

### Warm pitched roof with HR underlay

In roofs with an HR underlay, whatever form of external covering or ceiling is provided, there is a risk of interstitial condensation forming on the underside of the HR underlay. To avoid that risk, an AVCL (air vapour control layer) should be provided on the warm side of the insulation and ventilated voids should be formed between the underside of the underlay and the insulation. Each void should be at least 25mm deep and vented at both high and low level.

### Warm pitched roof with LR underlay

In warm pitched roofs with LR underlay, an AVCL should be provided at the ceiling line.

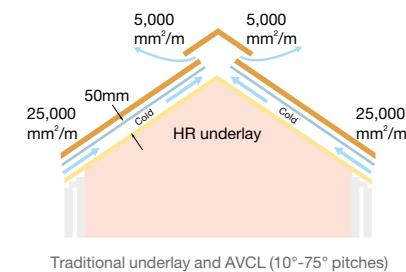
If the external covering is sufficiently permeable, it will allow vapour to be released and no ventilation of the batten space is recommended.

If it is not practicable to provide an AVCL, there might be some risk of interstitial condensation forming on the underside of the underlay. To avoid the risk, ventilated voids should be provided.

## Roofs with an AVCL

### Bituminous felts and vapour impermeable underlays (high resistance)

The ventilation requirements for cold roofs with vapour impermeable underlays and 'well-sealed ceilings' are the same as those without. Installing a 'well-sealed ceiling' will make the roof more energy efficient because airtightness will have prevented heat loss through convection. Heat loss due to low speed air currents over the cold side of the insulation (caused by ventilation) is negligible.

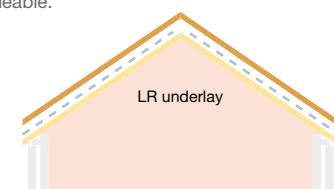


Traditional underlay and AVCL (10°-75° pitches)

### Vapour permeable underlays (low resistance)

Where an AVCL has been installed, the harmful effects caused by condensation can be controlled by the use of a vapour permeable underlay without ventilation. The vapour permeable underlayer may be laid fully supported on the insulation or draped unsupported.

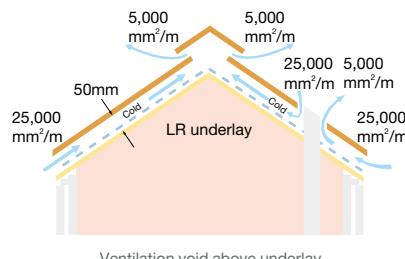
An AVCL is essential on the warm side of the insulation. If there is any doubt about the ability to provide and maintain an effectively sealed AVCL, then ventilation should be provided as if the underlay were impermeable.



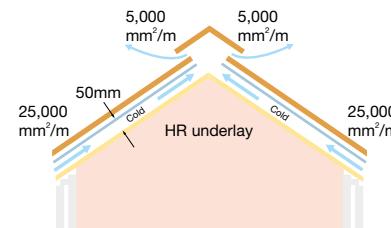
LR underlay with AVCL

## Roofs with a close-fitting roof covering

For warm roofs with a close-fitting roof covering, ventilation will be required either above or below the underlay, dependent on the underlay type.



Ventilation void above underlay



Ventilation void below underlay

### Fully breathable underlays

The British Standard mainly distinguishes between two types of underlay: high resistance (HR) impermeable and low resistance (LR) vapour permeable. However, there are some manufacturers of low resistance underlays that claim their products are fully breathable, negating the requirement for ventilation as set out in the British Standard.

There are a number of factors to consider before using any type of low resistance underlay, including:

1. How well-sealed the ceiling is
2. Whether a close-fitting roof covering is being used
3. Obstructions in the roof space

In all circumstances, Marley Eternit recommend the use of additional ventilation when using any type of low resistance underlay.

This can be achieved through the use of ventilated eaves and ventilated ridge systems.

### Close fitting coverings

When specifying a close fitting covering which is relatively airtight (such as fibre cement slates), there is a risk of interstitial condensation forming on the underside of the underlay and the external covering.

To avoid this risk, the batten space should be ventilated in accordance with BS 5250:2011 using counterbattens.

Call 01283 722588  
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an company