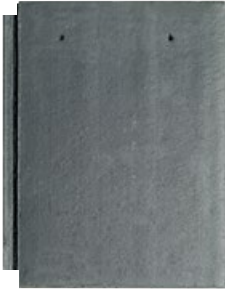




ROOF TILES

ROOF TILES



CAUSEWAY

A thin leading edge roof tile with a smooth or a riven texture finish.



DUNLUCE

A thin leading edge tile with a mock joint giving the appearance of two small tiles.



SL8

The innovative large format, thin leading edge roof tile with superior coverage.



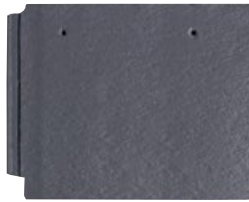
DERRIE

A traditional interlocking roof tile with a discrete roll profile.



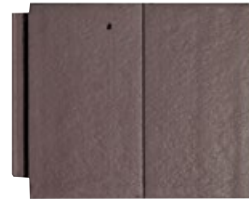
DONARD

A smooth finished flat leading edge roof tile.



MINISLATE

An interlocking tile with a natural slate appearance.



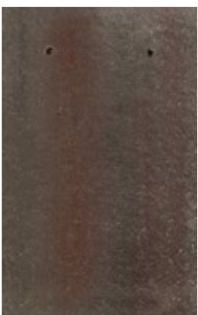
GEMINI

An innovative interlocking twintile.



CENTURION

A versatile concrete tile for pitches down to 12.5°.



PLAIN TILE

A traditional double lapped tile suitable for contoured roofs and vertical cladding.



VINTAGE 15"X9"

A replacement roof tile for houses built a generation ago.

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CAUSEWAY

A thin leading edge roof tile with a smooth or a riven texture finish.



Technical data

Size (overall)	420 x 334mm
Minimum Pitch	Nailed 25° Clipped 22.5°*
Maximum Pitch (Over 55° subject to increased fixing)	90°
Headlap	Minimum 100mm
Gauge (Batten spacing)	Maximum 320mm
Linear cover of one slate	310mm
Covering capacity (nett) at	320mm gauge: 10.2 slates/m ²
Weight at 320mm gauge	47kg/m ²
Weight per 1,000	4.6 tonnes
Minimum Batten Size	47mm x 35mm
Battens required at	320mm gauge: 3.1 lin. m/m ²
Positioning of first batten (From outside of fascia to top of batten)	350mm
Tile Nails	50mm x 3.35mm
Tile Clips	Tile, Verge and Eave
Eave	Standard Tile
Verge Bedded	Bedded on undercloak
Verge Dry Fix	Step Dry Verge or Continuous Dry Verge
Ridge Bedded	Universal Angle Ridge 455mm long
Ridge Dry Fix	Rapid Roll-Out Ridge System or Dry Vent Ridge System
Hip Bedded	Hip Angle Ridge 455mm long
Hip Dry Fix	Dry Hip System

Fixing Guide: Recommended Nailing/Clipping as per requirements given in compliance with SR. 82. The minimum recommended pitch may be influenced by certain restrictions. Please contact our sales office for technical advice.

* For pitches between 22.5° and 17.5° specifiers and users should contact our Sales Office for technical advice.

Colours available



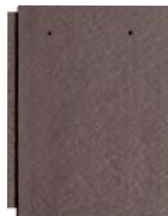
Black Riven



Black Smooth



Slate Grey



Brown



Farmhouse Red



Terracotta

DUNLUCE

A thin leading edge tile with a mock joint giving the appearance of two small tiles.

Technical data

Size (overall)	420 x 334mm
Minimum Pitch	Nailed 25° Clipped 22.5°*
Maximum Pitch (Over 55° subject to increased fixing)	90°
Headlap	Minimum 100mm
Gauge (Batten spacing)	Maximum 320mm
Linear cover of one slate	310mm
Covering capacity (nett) at	320mm gauge: 10.2 slates/m ²
Weight at 320mm gauge	47kg/m ²
Weight per 1,000	4.6 tonnes
Minimum Batten Size	47mm x 35mm
Battens required at	320mm gauge: 3.1 lin. m/m ²
Positioning of first batten (From outside of fascia to top of batten)	350mm
Tile Nails	50mm x 3.35mm
Tile Clips	Tile, Verge and Eave
Eave	Standard Tile
Verge Bedded	Bedded on undercloak
Verge Dry Fix	Step Dry Verge or Continuous Dry Verge
Ridge Bedded	Universal Angle Ridge 455mm long
Ridge Dry Fix	Rapid Roll-Out Ridge System or Dry Vent Ridge System
Hip Bedded	Hip Angle Ridge 455mm long
Hip Dry Fix	Dry Hip System

Fixing Guide: Recommended Nailing/Clipping as per requirements given in compliance with SR. 82. The minimum recommended pitch may be influenced by certain restrictions. Please contact our sales office for technical advice.

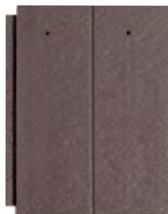
* For pitches between 22.5° and 17.5° specifiers and users should contact our Sales Office for technical advice.



Colours available



Black



Brown



Slate Grey



Farmhouse Red



Terracotta

SL8

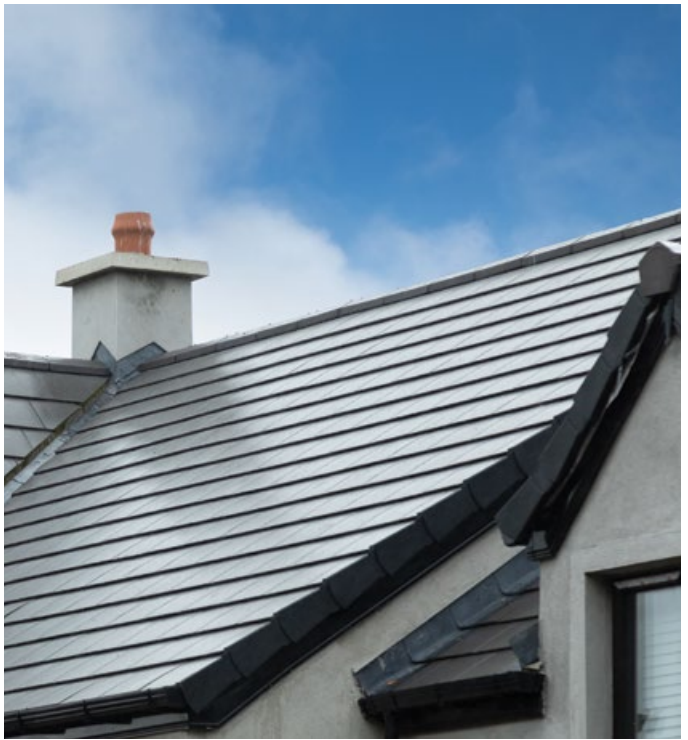
The innovative large format, thin leading edge roof tile with superior coverage.

Technical data

Size (overall)	420 x 396mm
Minimum Pitch	Nailed 25° Clipped 22.5° *
Maximum Pitch (Over 55° subject to increased fixing)	75°
Headlap	Maximum: 100mm Minimum: 75mm
Gauge (Batten spacing)	320mm - 345mm
Linear cover of one slate	362mm
Covering capacity (nett) at	8.01m ² - 8.63m ²
Weight (approx)	43.24 kg/m ² - 46.62 kg/m ²
Weight per 1,000	5.4 tonnes
Minimum Batten Size	47mm x 35mm
Battens required at	2.90 lin/m per m ² – 3.13 lin/m per m ²
Positioning of first batten: (From outside of fascia to top of batten)	345mm
Tile Nails	50mm x 3.35mm
Tile Clips	Tile and Verge
Eave	Standard Tile
Verge Bedded	Bedded on undercloak
Verge Dry Fix	Step Dry Verge or Continuous Dry Verge
Ridge Bedded	Universal Angle Ridge 455mm long
Ridge Dry Fix	Rapid Roll-Out Ridge System or Dry Vent Ridge System
Hip Bedded	Hip Angle Ridge 455mm long
Hip Dry Fix	Dry Hip System

Fixing Guide: Recommended Nailing/Clipping as per requirements given in compliance with SR. 82. The minimum recommended pitch may be influenced by certain restrictions. Please contact our sales office for technical advice.

* For pitches between 22.5° and 17.5° specifiers and users should contact our Sales Office for technical advice.



Colours available



Slate Grey



DERRIE

A traditional interlocking roof tile with a discrete roll profile.



Technical data

Size (overall)	419 x 330mm
Minimum Pitch	Nailed 25° Clipped 22.5°*
Maximum Pitch (Over 55° subject to increased fixing)	90°
Minimum Headlap	30° and over 75mm Less than 30° 100mm
Gauge (Batten spacing)	30° and over 344mm Less than 30° 319mm
Linear cover of one slate	300mm
Covering capacity (nett) at	319mm gauge: 10.4 slates/m ²
Weight at 319mm gauge	54kg/m ²
Weight per 1,000	5.2 tonnes
Minimum Batten Size	47mm x 35mm
Battens required at	319mm gauge: 3.10 lin. m/m ²
Positioning of first batten (From outside of fascia to top of batten)	350mm
Tile Nails	70mm x 3.35mm
Tile Clips	Tile, Verge
Eave	Standard Tile
Verge Bedded	Bedded on undercloak
Verge Dry Fix	Step Dry Verge or Continuous Dry Verge
Ridge Bedded	Universal Angle Ridge 455mm long
Ridge Dry Fix	Dry Vent Ridge System
Hip Bedded	Hip Angle Ridge 455mm long
Hip Dry Fix	Dry Hip System

Fixing Guide: Recommended Nailing/Clipping as per requirements given in compliance with SR. 82. The minimum recommended pitch may be influenced by certain restrictions. Please contact our sales office for technical advice.

* For pitches between 22.5° and 17.5° specifiers and users should contact our Sales Office for technical advice.

Colours available



Black



Brown



Slate Grey



Farmhouse Red



Terracotta

DONARD

A smooth finished flat leading edge roof tile.

Technical data

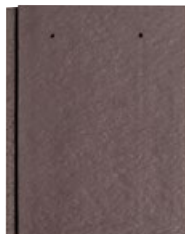
Size (overall)	419 x 334mm
Minimum Pitch	Nailed 25° Clipped 22.5°*
Maximum Pitch (Over 55° subject to increased fixing)	90°
Minimum Headlap	30° and over 75mm Less than 30° 100mm
Gauge (Batten spacing)	30° and over 344mm Less than 30° 319mm
Linear cover of one slate	301mm
Covering capacity (nett) at	319mm gauge: 10.4 slates/m ²
Weight at 319mm gauge	55kg/m ²
Weight per 1,000	5.2 tonnes
Minimum Batten Size	47mm x 35mm
Battens required at	319mm gauge: 3.10 lin. m/m ²
Positioning of first batten (From outside of fascia to top of batten)	350mm
Tile Nails	50mm x 3.35mm
Tile Clips	Tile, Verge
Eave	Standard Tile
Verge Bedded	Bedded on undercloak
Verge Dry Fix	Step Dry Verge or Continuous Dry Verge
Ridge Bedded	Universal Angle Ridge 455mm long
Ridge Dry Fix	Rapid Roll-Out Ridge System or Dry Vent Ridge System
Hip Bedded	Hip Angle Ridge 455mm long
Hip Dry Fix	Dry Hip System

Fixing Guide: Recommended Nailing/Clipping as per requirements given in compliance with SR. 82. The minimum recommended pitch may be influenced by certain restrictions. Please contact our sales office for technical advice.

* For pitches between 22.5° and 17.5° specifiers and users should contact our Sales Office for technical advice.



Black



Brown



Slate Grey



Farmhouse Red



Terracotta



MINISLATE

An interlocking tile with a natural slate appearance

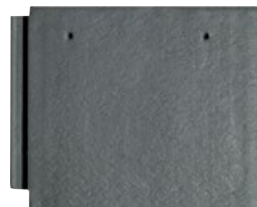
Technical data

Size (overall)	Standard Slate 270 x 337mm Slate and a half 270 x 495mm
Minimum Pitch	25°
Maximum Pitch (Over 55° subject to increased fixing)	90°
Minimum Headlap:	Minimum: 80mm Maximum: 95mm
Gauge (Batten spacing)	Minimum: 175mm Maximum: 190mm
Linear cover of one slate	316mm
Covering capacity (nett) at	190mm gauge: 16.6 slates/m ² 175mm gauge: 18.1 slates/m ²
Weight at 175mm gauge	51kg/m ²
Weight per 1,000	3.0 tonnes
Minimum Batten Size	47mm x 35mm
Battens required at	175mm gauge: 5.70 lin. m/m ²
Positioning of first batten (From outside of fascia to top of batten)	193mm
Tile Nails	45mm x 3.35mm
Tile Clips	Tile, Verge
Eave	Standard Tile
Verge Bedded	Bedded on undercloak
Verge Dry Fix	Continuous Dry Verge
Ridge Bedded	Universal Angle Ridge 455mm long
Ridge Dry Fix	Rapid Roll-Out Ridge System or Dry Vent Ridge System
Hip Bedded	Hip Angle Ridge 455mm long
Hip Dry Fix	Dry Hip System

Fixing Guide: Recommended Nailing/Clipping as per requirements given in compliance with SR. 82. The minimum recommended pitch may be influenced by certain restrictions. Please contact our sales office for technical advice.



Colours available



Slate Grey

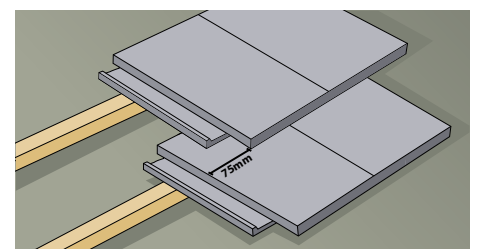
GEMINI

An innovative interlocking twintile

Technical data

Size (overall)	Standard Tile 270 x 337mm Three Quarter 270 x 260mm Tile and a half 270 x 495mm
Minimum Pitch	25°
Maximum Pitch (Over 55° subject to increased fixing)	90°
Headlap	Minimum 80mm Maximum 95mm
Gauge (Batten spacing)	Minimum 175mm Maximum 190mm
Linear cover of one slate	316mm
Covering capacity (nett) at	190mm gauge: 16.6 slates/m ² 175mm gauge: 18.1 slates/m ²
Weight at 175mm gauge:	51kg/m ²
Weight per 1,000	3.0 tonnes
Minimum Batten Size	47mm x 35mm
Battens required at	175mm gauge: 5.70 lin. m/m ²
Positioning of first batten: (From outside of fascia to top of batten)	193mm
Tile Nails	45mm x 3.35mm
Tile Clips	Tile, Verge
Eave	Standard Tile
Verge Bedded	Bedded on undercloak
Verge Dry Fix	Continuous Dry Verge
Ridge Bedded	Universal Angle Ridge 455mm long
Ridge Dry Fix	Rapid Roll-Out Ridge System or Dry Vent Ridge System
Hip Bedded	Hip Angle Ridge 455mm long
Hip Dry Fix	Dry Hip System

Fixing Guide: Recommended Nailing/Clipping as per requirements given in compliance with SR. 82. The minimum recommended pitch may be influenced by certain restrictions. Please contact our sales office for technical advice.



Gemini correctly laid to a quarter board

Colours available



Brown



Slate Grey



Farmhouse Red



CENTURION

A versatile concrete tile for pitches down to 12.5°

Technical data

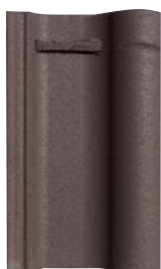
Size (overall)	385 x 230mm
Minimum Pitch	12.5°*
Maximum Pitch	44°
Headlap:	Minimum 100mm
Gauge (Batten spacing)	Minimum 265mm Maximum 285mm
Linear cover of one slate	205mm
Covering capacity (nett) at	285mm gauge: 17.5 slates/m ²
Weight at 285mm gauge	50kg per m ²
Weight per 1,000	2.8 tonnes
Minimum Batten Size	47mm x 35mm
Battens required at	285mm gauge: 3.50 lin. m/m ²
Positioning of first batten (From outside of fascia to top of batten)	315mm
Tile Clips	Tile, 50mm x 3.35mm nail
Eave	Standard Tile
Verge Bedded	Bedded on undercloak
Verge Dry Fix	Stepped Dry Verge or Continuous Dry Verge
Ridge Bedded	Half Rounded Ridge 455mm long
Ridge Dry Fix	Dry Vent Ridge System
Hip Bedded	Hip Angle Ridge 455mm long

Fixing Guide: All tiles to be fixed by fitting a tile clip over the interlock and nailing with a 50mm x 3.35mm aluminium nail into the batten below.

Recommended Nailing/Clipping: As per requirements given in compliance with SR. 82. The minimum recommended pitch may be influenced by certain restrictions. Please contact our sales office for technical advice.

* For pitches between 12.5° and 10° specifiers and users should contact our Sales Office for technical advice.

Colours available



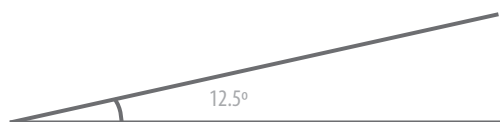
Brown



Slate Grey



Terracotta



On some simple roof designs Centurion can be laid down to a 10°* pitch but this should not be attempted without prior consultation with our sales office.

PLAIN TILE

A traditional double lapped tile suitable for contoured roofs and vertical cladding

Technical data

Size (overall)	Standard Tile 268 x 165mm Eave Tile 210 x 165mm Tile and a half 268 x 248mm
Minimum Pitch	35°
Maximum Pitch (Over 55° subject to increased fixing)	90°
Minimum Headlap	Pitched 65mm Vertical 35mm
Maximum Gauge (batten spacing)	Pitched 100mm Vertical 115mm
Linear cover of one slate	165mm
Covering capacity (nett) at	100mm gauge: 60 slates/m ² 115mm gauge: 53 slates/m ²
Weight	100mm gauge 75kg/m ² 115mm gauge 66kg/m ²
Weight per 1,000	1.3 tonnes
Battens size	Rafters 450 - 600mm c/c Min. 47 x 35mm Rafters less than 450mm c/c Min. 35 x 22mm
Battens required at	100mm gauge: 10.0 lin. m/m ² 115mm gauge: 8.8 lin. m/m ²
Positioning of first batten: (From outside of fascia to top of batten)	For first full tile 193mm For eave tile 135mm

Fixing guide: Recommended Nailing/Clipping as per requirements given in compliance with SR. 82. The minimum recommended pitch may be influenced by certain restrictions. Please contact our sales office for technical advice.



Colours available



Slate Grey



Farmhouse Red



Brown



Terracotta



VINTAGE 15"X9"

A replacement roof tile for houses built a generation ago

Technical data

Size (overall)	385 x 230mm
Minimum Pitch	Smooth 25° Nailed Smooth 17.5° Clipped Granular 25° Nailed Granular 22.5° Clipped
Maximum Pitch (Over 55° subject to increased fixing)	70°
Minimum Headlap	75mm
Gauge (batten spacing)	310mm
Linear cover of one slate	200mm
Covering capacity (nett) at	310mm gauge: 16.1 slates/m ²
Weight at 310mm gauge	46kg/m ²
Weight per 1,000	2.9 tonnes
Minimum Batten Size	47mm x 35mm
Battens required at	310mm gauge: 3.22 lin. m/m ²
Positioning of first batten: (From outside of fascia to top of batten)	305mm
Tile Nails	50mm x 3.35mm
Tile Clips	Tile, Verge
Eave	Standard Tile
Verge Bedded	Bedded on undercloak
Verge Dry Fix	Stepped Dry Verge or Continuous Dry Verge
Ridge Bedded	Universal Angle Ridge 455mm long
Ridge Dry Fix	Dry Vent Ridge System
Hip Bedded	Hip Angle Ridge 455mm long

Fixing guide: Recommended Nailing/Clipping as per requirements given in compliance with SR. 82. The minimum recommended pitch may be influenced by certain restrictions. Please contact our sales office for technical advice.

Colours available



Brown

Slate Grey

Terracotta

Note: Also available with a Brown Granular Finish

ORNAMENTAL RIDGES



Cone Finial



Ball Finial



Cockscomb



Club Crested



Fleur-de-lys Petite

PLAIN TILE ACCESSORIES



Left Hand
External Angle



Right Hand
External Angle



Bonnet Hip Tile



Decorative
Beaver Tile

RIDGES/HIPS



Universal Angle
Ridge/Hip



Half Round
Ridge/Hip



90°/105°/120°
Angle Ridge



Block End Hip
Universal Angle
(also available in 1/3 round)



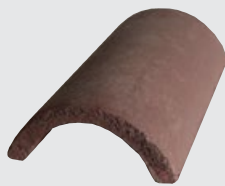
Block End Ridge
Half Round



Block End Ridge
Universal Angle



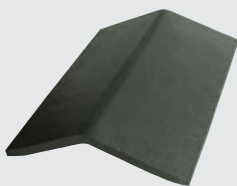
Mono Ridge Tile



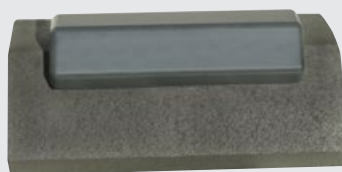
Baby Round Ridge



Pascal Roll Ridge



135° Angle Hip



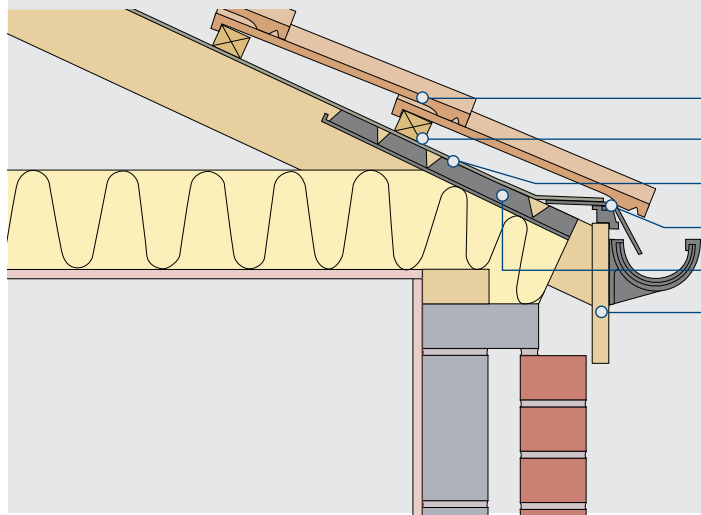
Ventilation Ridge

ACCESSORIES

Ventilation

Roadstone Eaves Ventilation System

- Continuous over - fascia Eaves Ventilation
- No need for timber tilting fillet
- Prevents insulating materials blocking under - fascia vent grilles
- Suitable for use with or without over- hanging soffit
- Suitable for rafter spacings up to 600mm centres
- Ventilation area equivalent from 10mm up to 25mm per linear metre
- Complies with requirements of Irish Building regulations for roof space ventilation
- Compatible for use with all Roadstone tile profiles



Eave Ventilation (without soffit)

- Roadstone standard tile (profile as selected)
- 47mm x 35mm tiling batten
- Roofing underlay
- Fascia grill (nailed to fascia board) with a PVC eaves support tray under roofing underlay
- PVC rafter roll out tray
- Fascia board

Ventilation

Roadstone Vent Tiles

- Provides roof space ventilation where roof design inhibits use of standard vent products
- Individual design to interlock with Roadstone Tile Range
- Maintains uninterrupted visual line of the roof tiles
- Headlap and pitch range as per matching tile profile
- Airflow capacity -10,000mm² up to 20,000mm²
- Correct spacing will meet requirements of Irish Building Regulations for roof ventilation



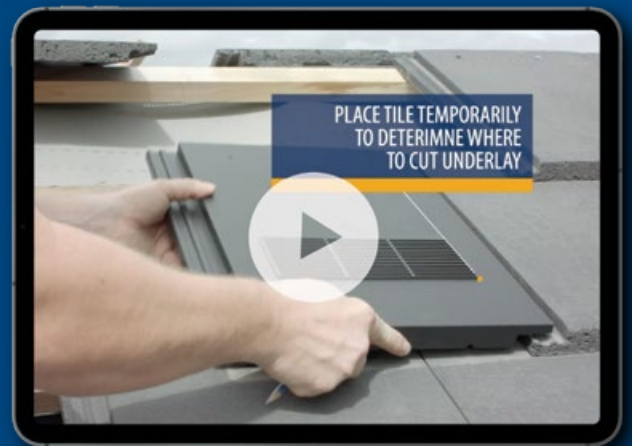
- Supplied with fixing clip and underlay seal to ensure weathertight performance
- Ideal for connection to soil pipe ventilation and mechanical extractors
- Compatible flexible pipe available for attachment
- Avoids unsightly protrusions from roof

Learn how to install

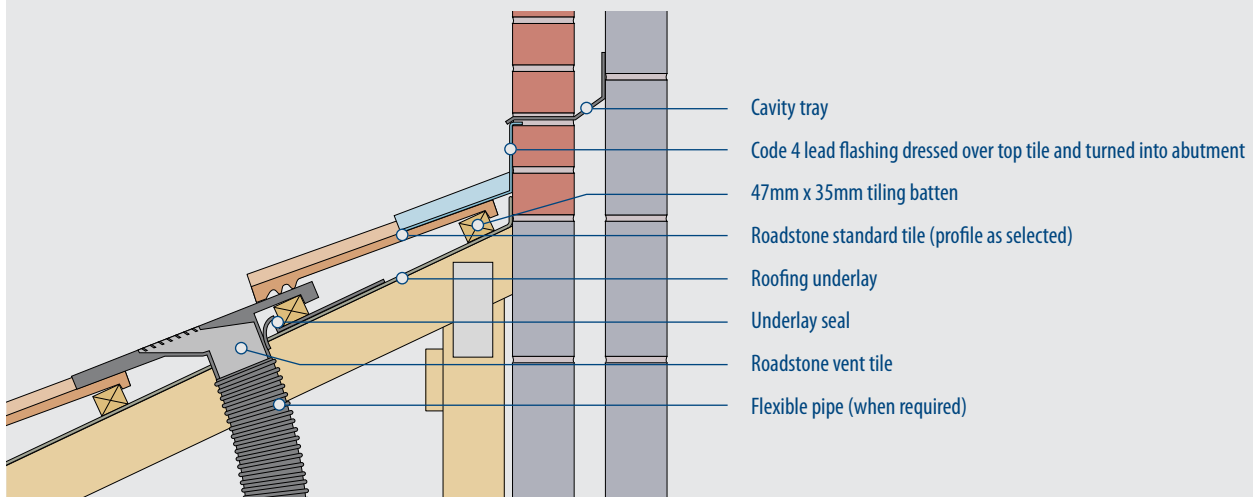
Roadstone Vent Tiles

with Roadstone Roof Products

Go to: www.roadstone.ie/roof-tiles



Vent Tile

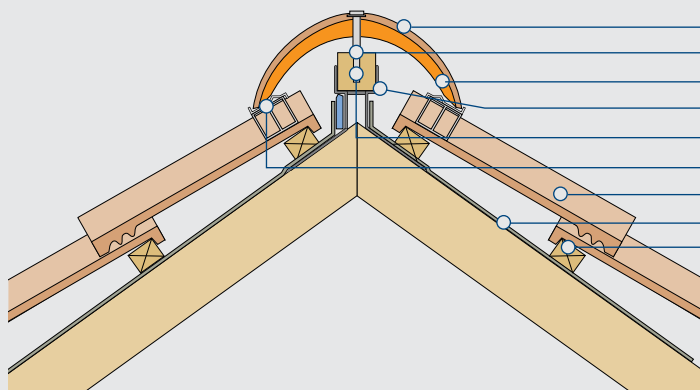


Ventilation

Roadstone Dry Vent Ridge

- Provides continuous ventilation along the ridge line
- Provides mechanical fixing of the ridge tiles
- Eliminates the need for mortar bedding
- Complies with IS/EN 490 Concrete Roof Tiles and Fittings
- Provides increased security against high wind conditions
- Neat appearance to ridge line - no mortar staining
- Easy to fix without concern for worsening weather conditions
- Effective ventilation area 10,000 sq. mm. per metre run of ridge = continuous 5mm ventilation on each side of ridge.
- Complies with requirements of Irish Building Regulations Part F, Section 2
- Suitable for rafter pitches between 17.5 - 50 degrees
- Suitable for use with Roadstone Half Round, Universal Angle or Mono Ridges

Dry Vent Ridge



- 450mm concrete ridge tile (half round or universal angle ridge)
- Stainless steel ring shank nail and seal
- Ridge to ridge collar
- Ridge batten support bracket
- Ridge batten 50mm x --*(see ridge batten height table)
- Vented profile filler unit
- Roadstone standard tile (profile as selected)
- Roof underlay cut at ridge apex
- 47mm x 35mm tiling batten

*Ridge batten height table

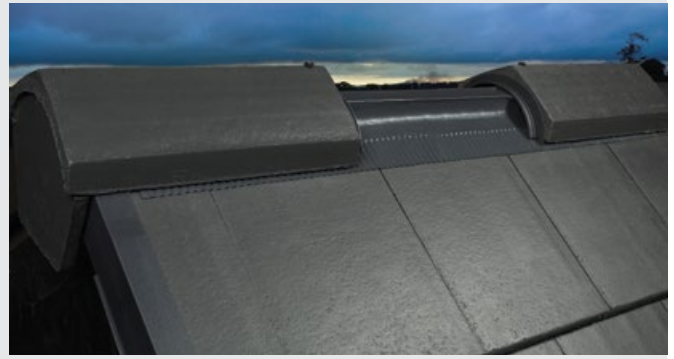
Tile profile	Rafter pitch	Batten height mm
Derrie	22.5° - 35°	75
	36.0° - 50°	50
Flat Tiles	22.5° - 30°	50
	31.0° - 55°	25



Ventilation

Roadstone Rapid Roll-Out Ridge Systems

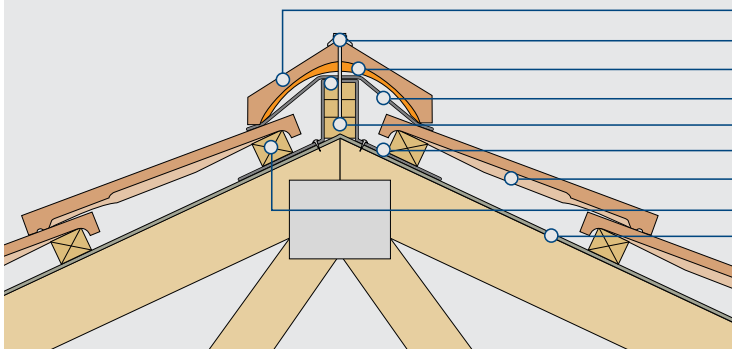
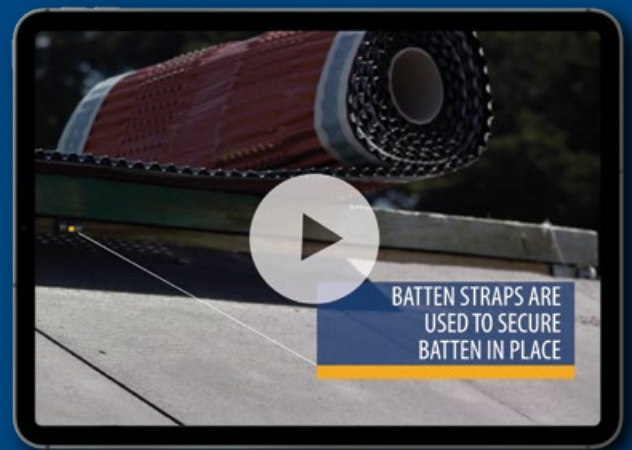
- Cost effective alternative to mortar bedding of ridge tiles
- Quick and easy to install with no concern for impending poor weather
- Provides continuous ventilation along ridge line
- Complies with requirements of Irish Building Regulations Part F section 2
- Provides secure mechanical fixing of ridge tiles



- Complies with IS/EN 490 Concrete Roof Tiles and Fittings
- Suitable for use with Roadstone Half Round, and Universal Angle ridges

Learn how to install
Rapid Roll-Out Ridge Systems
 with Roadstone Roof Products

Go to: www.roadstone.ie/roof-tiles



Rapid Roll-Out Ridge

- 450mm Concrete ridge tile (half round or universal angle ridge)
- Stainless steel ring shank nail and seal
- Ridge to ridge collar
- Metal roll weathertight membrane
- Ridge batten 50mm x --*(see ridge batten height table)
- Ridge batten fixing straps
- Roadstone standard tile (profile as selected)
- 47mm x 35mm tiling batten
- Roofing underlay overlapping ridge apex (cut short of apex when ventilation is required)

Tile profile	Rafter pitch	Batten height mm
Derrie	22.5° - 35°	75
	36.0° - 50°	50
Flat Tiles	22.5° - 30°	50
	31.0° - 55°	25

Dry Roofing

Roadstone Dry Hip System

- Provides a clean clear appearance to the finished hip line
- Provides secure mechanical fixing of hip tiles
- No mortar required
- Complimented Hip Block End Ridge
- Quick and easy to install with no concern for impending poor weather
- Maintenance free - no concern of mortar failure



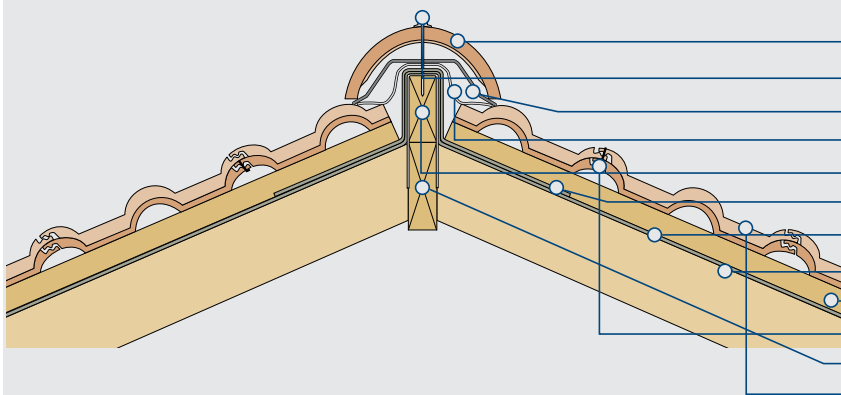
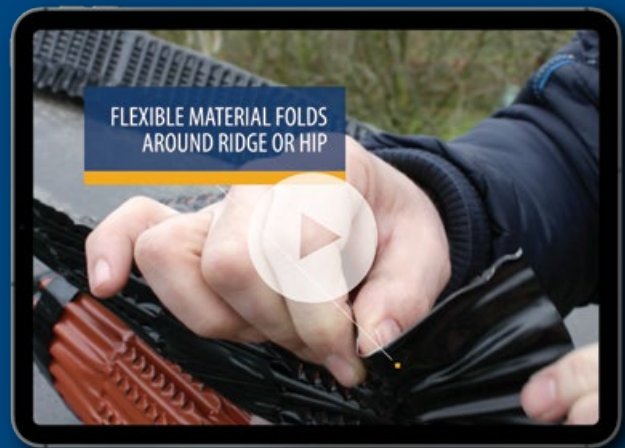
- Complies with requirements of IS/EN 490 Concrete Roof Tiles & Fittings
- Provides ventilation to roof space when used with an approved Vapour Permeable Roofing Underlay
- Suitable for use with Hip, Round, Hip angle, and Block end hip ridges

Learn how to install

Dry Hip System

with Roadstone Roof Products

Go to: www.roadstone.ie/roof-tiles



Dry Hip Ridge

- 450mm concrete hip tile (1/3 round or universal angle hip)
- Ring shank nail s/s
- Hip tile support tray
- Metal roll weathertight membrane dressed over hip onto tiles
- Hip batten 50mm x --*(see hip batten height table)
- Hip batten fixing strap
- Underlay strip 1m wide laid down hip over main roof underlay
- Roofing underlay lapped over hip rafter
- 47mm x 35mm tiling batten
- Aluminium hip tile clip
- Hip rafter
- Roadstone standard tile (profile as selected) cut to rake of hip

*Ridge batten height table

Tile profile	Rafter pitch	Batten height mm
Derrie	22.5° - 35°	130
	36.0° - 50°	120
Flat Tiles	22.5° - 30°	115
	31.0° - 55°	105

Dry Roofing

Stepped Dry Verge

The Roadstone Stepped Dry Interlocking Verge System provides a neat, mortar-free verge that eliminates the need for an undercloak. Mechanical fixing provides high resistance against wind uplift for both verge tiles and stepped verge units.



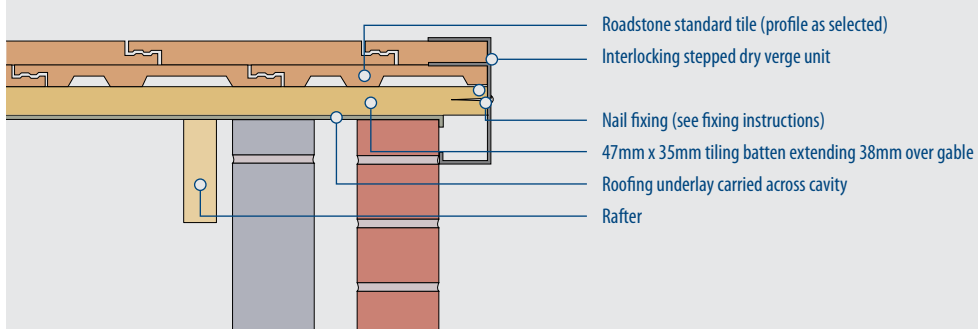
- Universal units, suits both sides of the roof
- Available in black, grey, brown and terracotta
- Provides neat traditional appearance
- Quick and easy to fix
- Eliminates the use of mortar bedding
- Eliminates the use of undercloak slates and metal verge clips
- Can be fixed in poor weather conditions
- Unique interlocking feature provides increased security against wind uplift
- Maintenance free
- Allows for normal headlap variations:
 - Standard Tile 280mm - 345mm
 - Suitable for use with or without a bargeboard detail

Learn how to install Stepped Dry Verge with Roadstone Roof Products

Go to: www.roadstone.ie/roof-tiles



Stepped Dry Verge



Verge Unit



Blanking Plate



Starter

Dry Roofing

Continuous Dry Verge

The Roadstone Continuous Dry Verge System provides a neat, mortar-free verge that eliminates the need for undercloak.

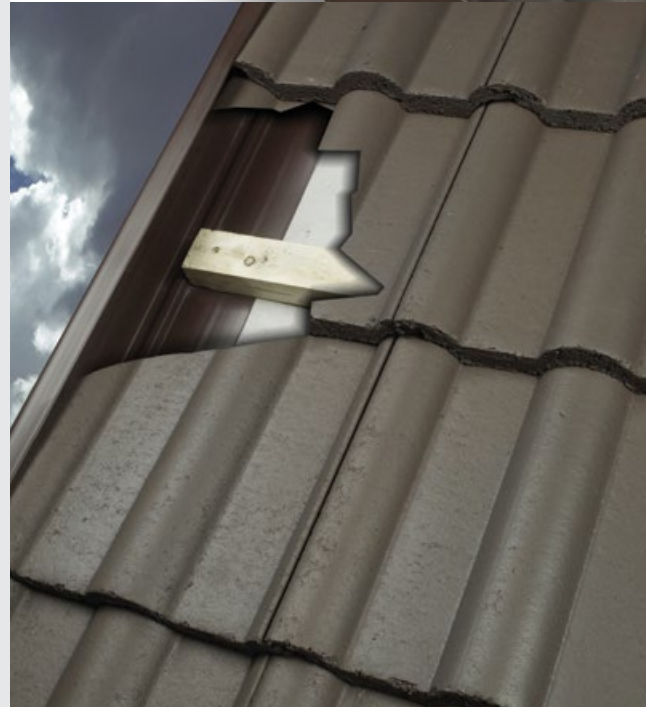
Nail fixing provides high resistance to wind uplift for both verge tiles and the verge extrusion.

Continuous Dry Verge is available in two sizes:

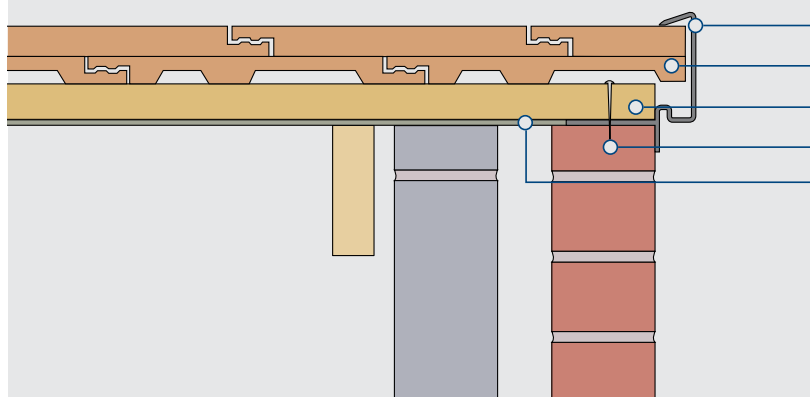
A - Type R: 93mm

B - Type D: 105mm

- Roadstone Continuous Dry Verge System
- Provides continuous cover and clean visual line to verge
- Provides continuous weatherproof cover along gable verges
- Provides increased strength and high security against occurrence of wind damage
- Easy to fix without the use of special tools or adhesives
- No requirement for mortar bedding or slate undercloak
- Saves time and labour
- Can be fitted in all weathers
- Provides a complementary finish to PVC bargeboards fascias and soffits
- Available for use with a range of Roadstone Tile Profiles
- Supplied in 3m lengths
- Connectors available for joining



Continuous Dry Verge



Continuous dry verge extrusion

Roadstone standard tile (profile as selected)

47mm x 35mm tiling batten

S/S fixing nail

Roofing underlay carried across cavity under dry verge unit

CLIPS

Function:

The function of these clips is to bring much greater resistance to tile dislodgement than can be obtained by the traditional method of headnailing at site locations and on roof pitches where the forces tending to dislodge tiles are at their most severe. Where roofs are subjected to high wind lifting forces, the use of these specially designed tile clips is advisable as recommended and illustrated in this manual. It is also recommended that at pitches below 25°, high performance roofing underlay should be used.

Roadstone Tile Clips

Tile clips are used:

1. Below 25° pitch, and
2. As additional fixings for nailed tiles where determined by wind loading conditions.

General Description

Roadstone tile clips have been designed to give the maximum security for the various patterns of roof tiles for which they are intended.

Batten Clips

Donard, Causeway, Derrie & Centurion. These batten clips are manufactured from corrosion resistant stainless steel grade 304.

Vintage 15 x 9. These batten clips are manufactured from acetal polymer. Each clip is secured with a 50mm x 10g stainless steel grade 304 nail.

MiniSlate & Gemini tile clips are manufactured from acetal polymer.

Verge Clips

Donard, Galloway, MiniSlate, Gemini & Vintage 15"x9" verge clips are manufactured from stainless steel. Each clip is secured with two 40mm aluminium alloy nails.

Derrie & Centurion verge clips are manufactured from stainless spring steel and secured with two 40mm aluminium alloy nails.

Eave Clips

Eave clips are manufactured from acetal polymer. Each clip is secured with a 50mm x 10g aluminium alloy nail.

Hip/Valley Clips

The hip-/valley clip is used for attaching cut roof tiles in the area of valleys and hips to avoid tile slipping.

Hip Irons

Galvanised Hip Irons are screwed to the foot of each hip rafter as support for the hip tiles.

Nails

Generally at roof pitches above 25° tiles are head nailed using the appropriate size of aluminium alloy nail to I.S. 105 Part 1.

Tile Profile Nail Size

Product	Size
Donard	50mm x 10 g
Dunluce	50mm x 10 g
Derrie	70mm x 10 g
MiniSlate	50mm x 10 g
Plain Tiles	(min. pitch 35°) 40mm x 10 g
Vintage	50mm x 10 g
Centurion	clip only (with 50mm x 10 g nail)
Causeway	50mm x 10 g
SL8	50mm x 10 g
Gemini	50mm x 10 g

V-Flow GRP Valley Trough

Tile Valley (Standard Fixing)

GRP Tile Valley (360mm), is the modern cost-effective alternative to using a traditional lead valley when used with concrete or clay roof tiles. At a fraction of the cost and weight of lead, GRP valleys are supplied in convenient 3m lengths, which are easy to transport and handle on site. GRP Valleys are easy to cut, and sufficiently flexible to allow for a variety of roof pitches.

A 400mm wide valley is available for longer runs and a wider valley;

A 400mm Flat Fixing valley is available when using sarking boards.



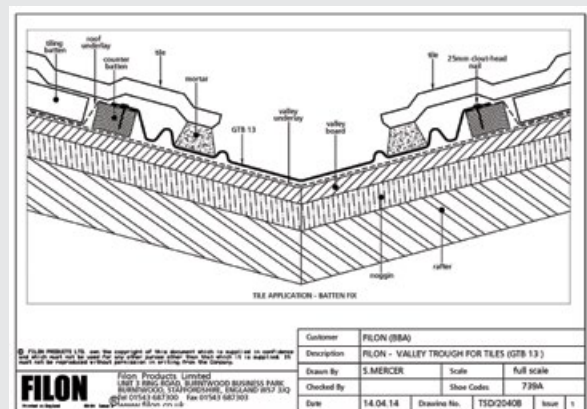
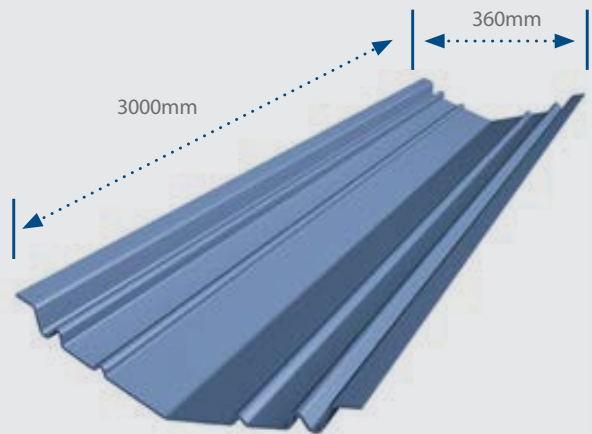
Installation

Valley boards should be fitted of sufficient width to provide support for the roofing battens, and must be flush with the top of the rafters; or a 6mm plywood laid over the rafters.

The valley is first lined with a strip of roofing underlay along the length of the valley, to be 1m wide. A length of valley should be pressed into the valley and marked with a chalk line, where a longitudinal batten will be fixed as support for the edge of the valley.

Starting at the base of the valley, the troughs should be nailed onto the longitudinal batten with large head clout nail at 500mm centres.

Consecutive lengths of valley should have a minimum overlap of 150mm. At the top of adjoining troughs, the units should be mitred and dressed with a code 4 lead saddle. The fascia board may need to be trimmed to ensure full water flow into the rain water gutter.



Size	3000mm long x 360mm standard width
Material	UV Glass fibre/Polyester laminate. BBA
Benefits	Cost-effective alternative to lead, Life expectancy of over 30 years. Lightweight, flexible and easy to transport.

V-Flow GRP Dry Valley

High & Low Profile

A **GRP Dry Valley** is a mortarless system

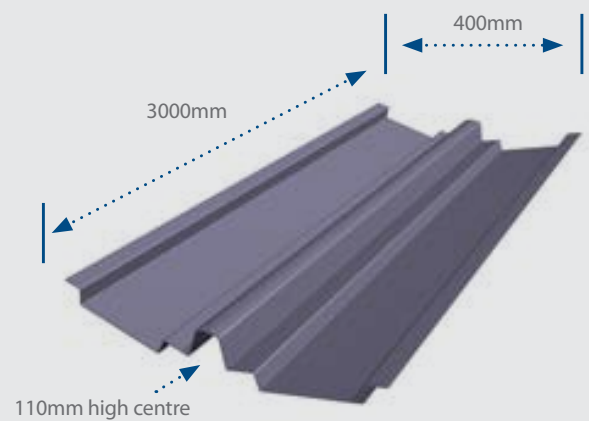
which provides a maintenance free means of discharging water from the roof, which is suitable for use with slates, interlocking and profiled roof tiles.

The Dry Valley is supplied in 3mt lengths, in **Low, Mid** and **High** profiles, depending on the roof covering being used. They can be fixed as an **Under Batten** profile (Fig. 1), or as an **Over Batten** profile (Fig. 2). They are finished in a standard lead grey colour.

The Dry Valley creates a close-cut appearance on a new build and refurbished properties where fixing times can be cut by up to 50% over traditional methods.

Eaves Closures and Top Closures

Eaves Closures and Top Closures are used for overlaying on the ends of GRP valleys, which give a clean finish, and alternative to lead or mortar, which are manufactured from a flexible and durable polyurethane.



Under batten Dry Valley

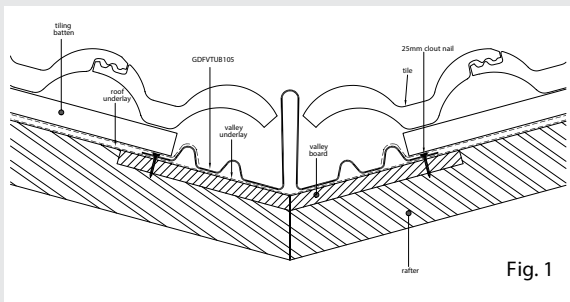
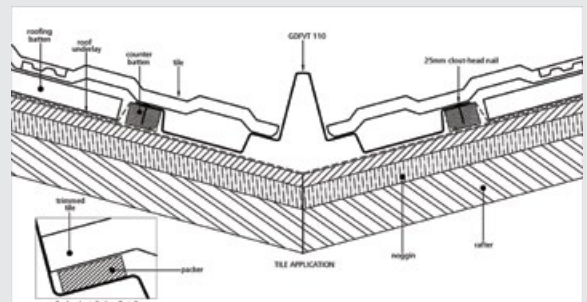


Fig. 1

Over batten Dry Valley



Profile	UNDER BATTEN FIXING	OVER BATTEN FIXING
Size	3000mm long x 400mm wide	3000mm long x 400mm wide
Material	UV Glass fibre/Polyester laminate.	UV Glass fibre/Polyester laminate
Benefits	Improved Drainage. No Mortar. Improved Appearance. Time saving	

V-Flow GRP Dry Valley Eaves and Top Closure

The GRP Valley Troughs are suitable for roof pitches up to 60 degree, and strongly recommend that plywood or timber valley boards should be used. The underlay and battens are fitted as standard practice, with a batten running the length of the valley on each side to accommodate the external raised water bar section.

When using the Eaves Closure, the 150mm long GRP pre-cut valley section support should be positioned close to the eaves (**Image 1**). The eaves closure piece should be overlaid onto the GRP pre-cut valley section

(150mm overlap), ensuring the GRP valley edges are positioned over the longitudinal battens (**Image 2**). At the highest point, fix with a large headed clout nail into the longitudinal batten.

The Valley Troughs are fitted onto the valley boards and firmly fixed from the eaves closure section upwards, (**Image 3**). Using suitable large headed roofing nails on either side of the trough and through the top flat section of the water bar, at a minimum of 500mm centres.

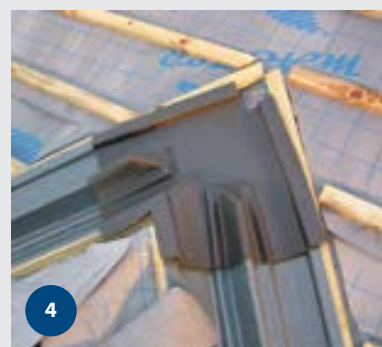
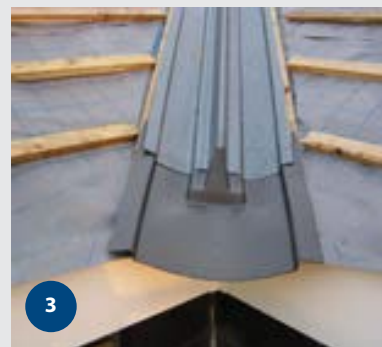
All overlaps should be at least 150mm, and care should be taken to ensure the central raised section is not distorted, and positioned central to the valley. If the valley trough finishes with a corresponding valley at the ridge, the top closure piece can be used. These closure sections overlap the valley troughs and underlap the slates or tiles that form over this point.

(**Image 4**)

The longitudinal battens of each valley should meet and be mitred so that the top of the top closure can be fixed with a suitable roofing nail to stop any movement. The top closure then overlaps both valley troughs by 150mm and forms a neat, tidy waterproof seal. (**image 4**)

Tiles or Slates can now be laid into and over the troughs. When cutting the tiles or slates, it is important that neither should be forced to fit, in case of distortion to the central upstand. In some instances small cuts will be required, and self adhesive packers are supplied with the valley to support these small cuts if required (**see the detailed x-section on page 6**)

When slating or tiling is complete, the eaves closure section should be cut with a sharp knife or scissors to allow water to discharge into the rainwater gutter. It is important to ensure that the valley troughs are cleared of any debris on completion, so water flow is not impeded.



V-Flow GRP Dry Bonding Gutter High & Low Profile

A GRP Dry Bonding Gutter is a mortarless system which creates a weather tight joint between dissimilar roof coverings on adjacent roofs, and joins any combination of slates or flat and profiled tiles.

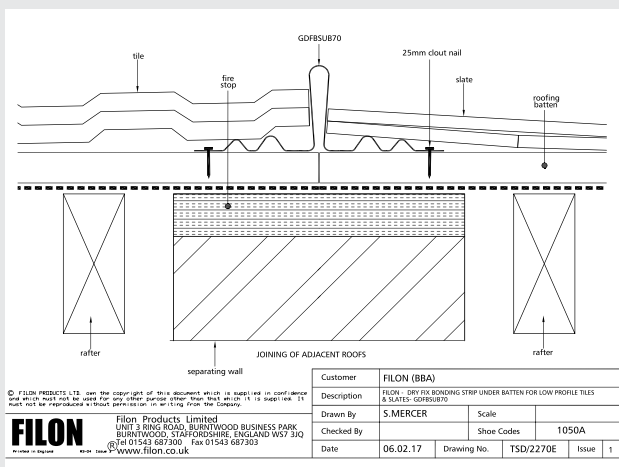
The Dry Bonding Gutter is supplied in 3mt lengths, in 70mm (Low) and 100mm (High) profiles, depending on the roof covering being used. They are finished in a standard lead grey colour, and are BBA certified.

The Dry Bonding Gutter creates a close-cut appearance on refurbished properties where fixing times can be cut by up to 50% over traditional mortar methods.

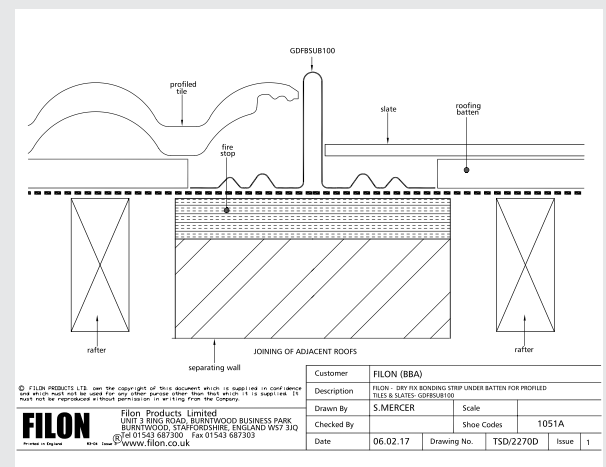
Packs should be stored flat or on end on a smooth, clean dry surface; under cover and protected from sunlight.



70mm Dry Bonding Gutter



100mm Dry Bonding Gutter



Size	3000mm long x 225mm wide
Material	UV Glass fibre/Polyester laminate.
Benefits	Improved Drainage. No Mortar. Improved Appearance. Time saving

WIND LOAD

Wind Loading

Under strong wind gusts the uplift of the roof tiles may be in excess of the dead mass of the tiles, hence requiring them to be securely fixed to prevent them being lifted from the building.

Wind Loadings/Tile Fixing

The principal factors to be considered in deciding on the necessity for additional mechanical fixings are:

1. The exposure and location of the site.
2. Type of Element
3. The height of the building.
4. The roof pitch.
5. The higher wind loadings encountered at eaves and verges.

Where a building is complex in shape, located on steep sloping ground or near to the edge of a cliff, further advice should be obtained.

Recommended Nailing/Clipping as per requirements given in compliance with SR. 82.

- In the green area of the map every tile should be nailed or mechanically fixed.
- In the blue area each tile in every alternative course should be nailed or mechanically fixed.
- On all sites, every edge or perimeter tile should be nailed or mechanically fixed. In the case of valleys, the first full tile should be nailed or mechanically fixed.
- On exposed sites and in built up areas subject to adverse wind effects such as funnelling, every tile should be nailed or mechanically fixed within the blue area.
- On all roofs at pitches above 45°, each tile should be nailed or mechanically fixed.
- On all roofs at pitches of 55° and over, in addition to nailing each tile, the tail of each tile should be mechanically fixed.

Exposed buildings

For the purposes of selecting appropriate mechanical fixing, buildings in the following circumstances are considered to be exposed:

- (a)** any building which stands above its surroundings or has a ridge height in excess of 12 metres above adjoining ground level, or

- (b)** any building on a hill slope or hill top, or

- (c)** any building in a built up area which is subject to adverse wind effects, such as funnelling, or

- (d)** any building which is located in the green area of the map.

Severely exposed buildings

For the purposes of selecting appropriate mechanical fixing, buildings located in the green area of map which are in the following circumstances, are considered to be severely exposed:

- (a)** any building which stands above its surroundings or has a ridge height in excess of 12 metres above adjoining ground level, or

- (b)** any building on a hill slope or hill top, or

- (c)** any building which is subject to adverse wind effects, such as funnelling.

In summary, minimum fixing requirements for single lap tiles:

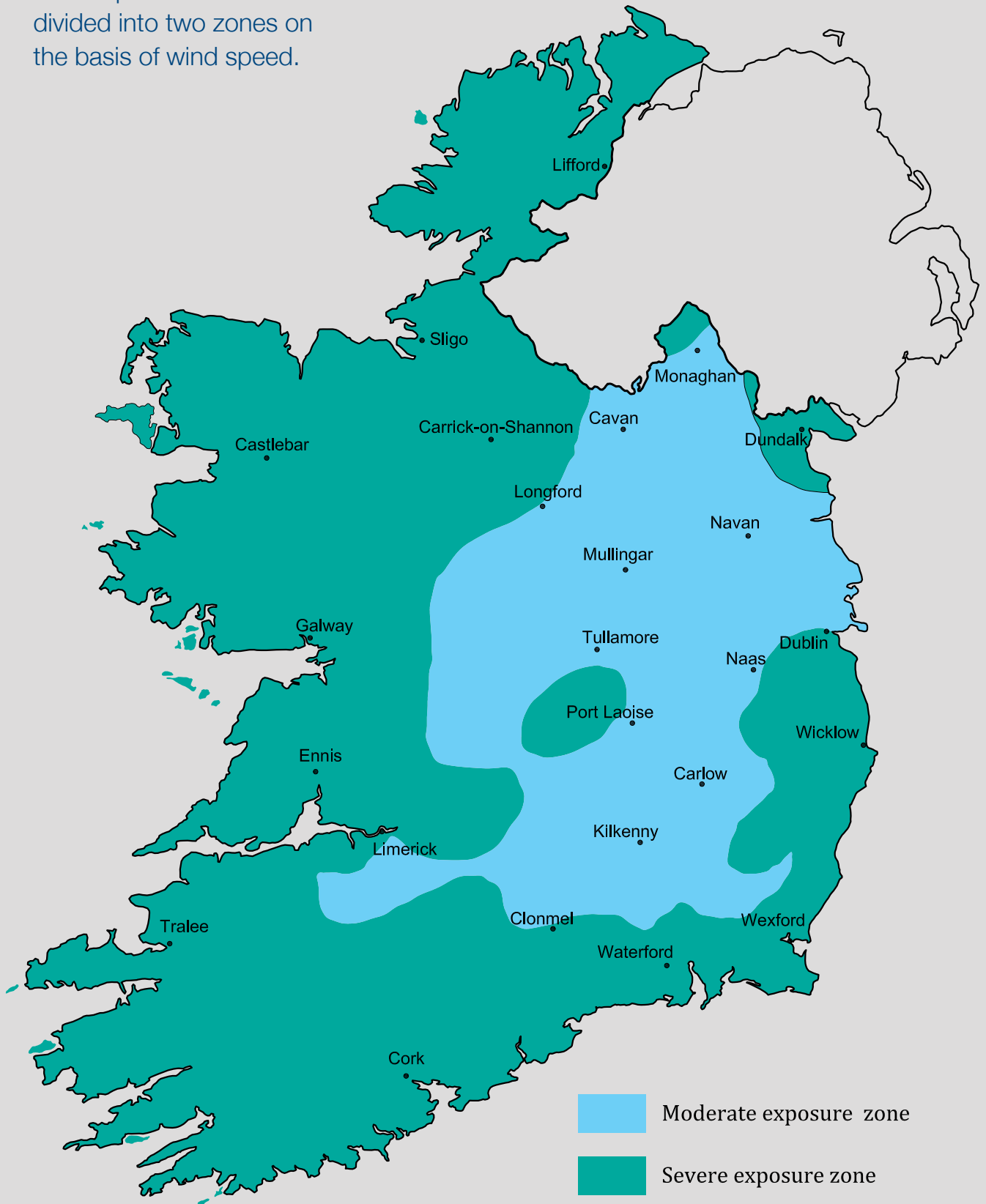
In summary minimum fixing requirements for single lap tiles

Pitch	Fixing requirements
Pitch $\geq 55^\circ$	All exposure conditions: every tile head nailed and tail clipped
Pitch $> 45^\circ$	a) Normal building: every tile head nailed or tail clipped
and $< 55^\circ$	b) Exposed or severely exposed building: every tile head nailed and tail clipped
Pitch $\leq 45^\circ$	a) Perimeter* area, normal building: every tile head nailed or tail clipped
	b) Roof area excluding perimeter*, normal building : each tile in every alternative course head nailed or tail clipped
	c) E Exposed building: every tile head nailed or tail clipped
	d) Severely exposed building: every tile head nailed and tail clipped

*All bedded ridge tiles should be mechanically fixed.

All tiles at eaves, verges, ridges, hips and tiles adjacent to valleys, abutments, chimneys, rooflights, etc.

The map shows Ireland divided into two zones on the basis of wind speed.



Important Notice: The information given in this brochure is correct to the best of our knowledge but customers, architects and specifiers must satisfy themselves as to the suitability of any particular product, specification or design detail for a specific application. Colours shown are as accurate as printing processes will allow. Actual samples or the viewing of a display roof is advised.

Weathering: As with all pigmented concrete products, changes in colour and appearance will occur as a result of the natural weathering process. The degree and pace of change is dependent on weather conditions and site location.

Map showing moderate and severe exposure zones in the Republic of Ireland

ROOF TILE ACCESSORY INSTALLATION GUIDES

To assist you with the installation of Roadstone's Roof Tile accessories video guides have been developed.

Go to: www.roadstone.ie/roof-tiles



www.roadstone.ie

Phone: 01 4041200 - Fortunestown, Tallaght, Dublin 24.

Email: info@roadstone.ie



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