ROOFING SYSTEM
ACCESSORIES

TAKE A CLOSER LOOK

EVERYTHING YOU NEED UNDER ONE ROOF

From roof tiles and underlay to eaves systems and ridges, we have a comprehensive range of roof products. All elements of our roofs are carefully designed, tested and manufactured to give value, visual appeal and long-lasting weathertight performance.

Most of our roofing systems and accessories can be guaranteed weathertight and secure for either 10 or 15 years when used together as part of a Redland Specification tailored to your project.

CONTENTS

NATURALLY REDLAND

Redland

Redland is a brand of the worldwide Braas Monier Building Group (BMBG).

With operations in 36 countries and over 100 production sites, BMBG is the leading worldwide supplier of pitched roofing materials. Our goal is to deliver high-quality roofing solutions that perfectly meet our customers' expectations.

Redland draws on the expertise and experience gathered from nearly 100 years as an industry leader. Our range of tiles, slates, renewable energy systems, fittings and accessories, combined with market-leading technical support services, enable us to deliver total pitched roofing solutions you can rely on.
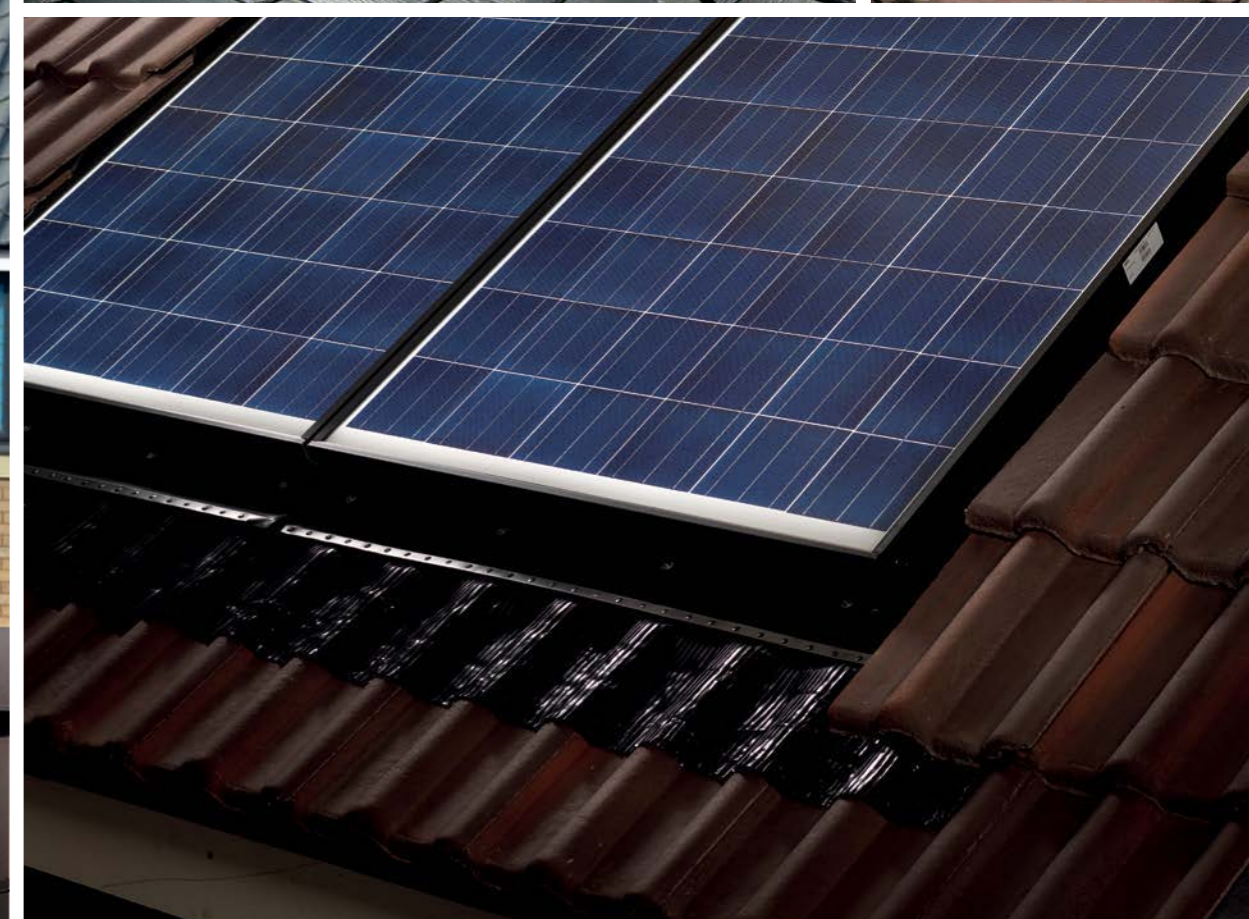
"At Redland it is our aim to deliver high-quality roofs that are easy to specify, buy, install and own."

Chances are you know someone who has been on one of our courses.

INDUSTRY SUPPORT AND TRAINING

Redland

REDLAND TECHNICAL SOLUTIONS SERVICE

SpecMaster is a free guaranteed roof specification service that provides NBS-based specification clauses tailored to your project. Easily integrated into your own working document, a SpecMaster specification will save you time, and comes with the added reassurance of a comprehensive 15-year design liability and roof weathertightness guarantee.

REDLAND TECHNICAL SOLUTIONS HOTLINE

Staffed by industry experts with both the technical and real world knowledge of designing with Redland systems, our Technical Solutions team's service will help you bring your project to fruition with industry-leading knowledge every step of the way.

CPD AND TRAINING

Redland has a purpose-built National Training Centre at South Cerney in Gloucestershire where Redland personnel, customers, suppliers and specifiers regularly undertake in-depth classroom and practical training. Since it was established in 1983, more than 40,000 people have been trained at the Centre.

As a member of the RIBA CPD Providers Network, we are also able to deliver training sessions, using accredited materials, at customers' own premises.

As well as an unrivalled range of roof tiles and systems, Redland has developed a comprehensive range of free technical services to save you time and provide complete peace of mind in your roofing project.

SpecMaster
Complete guaranteed roof specification service with NBS-based clauses

QuantMaster
Redland's bespoke roof materials quantity estimating service

DesignMaster
Comprehensive CAD library of over 4,000 quality roofing drawings

ViewMaster
The online visualisation software that enables you to 'try before you buy'

FixMaster
Fixing specification service tailored to each customer's needs

EcoMaster
Guaranteed specification service for projects using photovoltaic systems

Visit **www.redland.co.uk/services** for further information on these services

Spirtech 400 2S

50m

1500

DivoTape

25m

1500

Underlay Support Tray

30 170
20 3
8 60
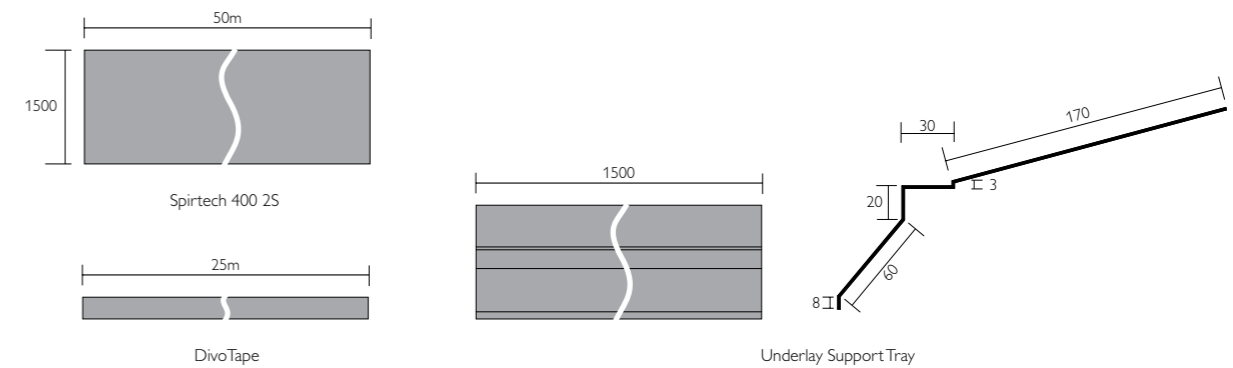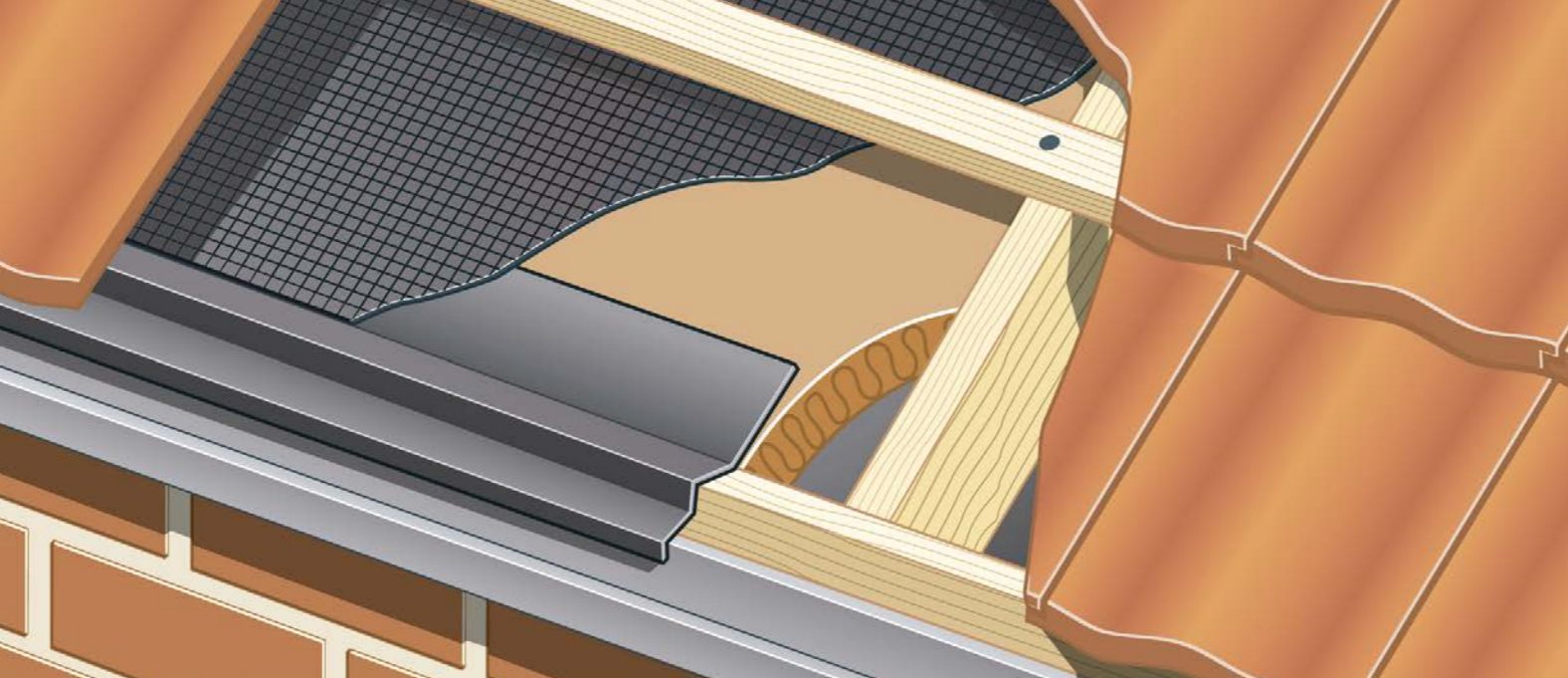
SPIRTECH 400 2S AND UNDERLAY SUPPORT TRAY

A heavy-duty underlay with a unique glue strip system that provides raintight overlap and passes the BS 5534:2014 wind uplift requirements for use anywhere in the UK. The robust Underlay Support Tray provides both a continuous support for the underlay at the eaves and a UV-resistant drip into the gutter.

FEATURES

- Strong, durable heavy-duty underlay system with grid reinforcement

- Superior abrasion and tear resistance

- Unique 2-strip gluing system for horizontal laps makes joints easy to bond and eliminates need for battens over the horizontal laps

- Glue strips suitable for both high and low outside temperatures

- Provides windtight, sealed roof system for warm and hybrid roofs, improving energy efficiency, as well as for traditional cold roofs

- Can be used without eaves ventilation when used in conjunction with a well-sealed ceiling and ridge or other high level ventilation

- Underlay Support Tray replaces the need for a timber tilting fillet and additional length of UV-resistant underlay

- Complies with BS 5534:2014 wind uplift resistance requirements for underlays everywhere in the UK for all batten gauges up to 345mm

COMPATIBILITY

- Spirtech 400 2S and Underlay Support Tray can be used with the complete Redland range of tiles

- Eaves Clips and Eaves Comb can be easily fixed through the Underlay Support Tray

- Suitable for use with all pitched roofs

PERFORMANCE

- Outstanding protection against falling objects

- Best in class watertightness after abrasion

- Suitable for use in all zones throughout the country under BS 5534:2014

- Awarded British Board of Agrément Certification, certificate number 05/4283

SPIRTECH 400 2S ON EAVES (MINI STONEWOLD)

50 × 25mm SW tiling batten
Spirtech 400 2S with a 10mm drape between rafters
Mini Stonewold slate
Underlay Support Tray
Well-sealed ceiling
Fascia board
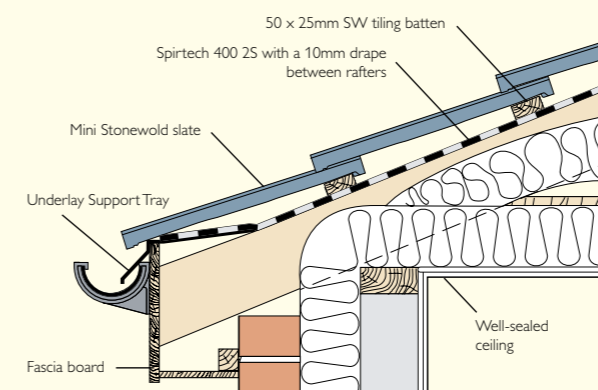
SPIRTECH 400 2S ON RIDGE (MINI STONEWOLD)

Rapid Vented Ridge
Polypropylene ridge-to-ridge seal
Rollable membrane
50 × 25mm SW tiling batten
Mini Stonewold slate
Spirtech 400 2S finished 30mm from apex

BBA BRITISH BOARD OF AGRÉMENT
CERTIFICATE No.05/4283
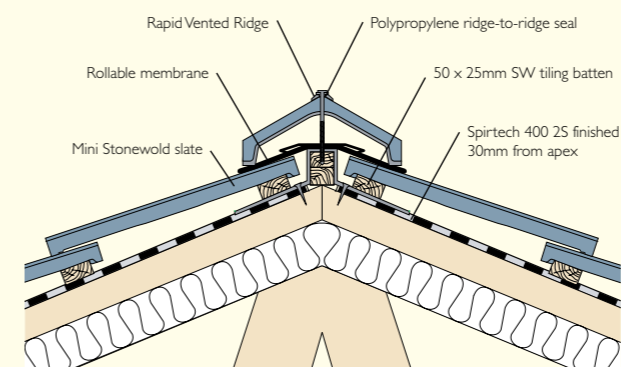
GUIDANCE NOTES

- Not adversely affected by any of the standard construction materials used in the roof or by any of the commonly used timber preservatives.

- Fix Underlay Support Trays to top of fascia board at centres not greater than 300mm with adjacent trays abutting each other and with rear edge resting on the insulation or rafter, below the line of first tiling batten.

- Use DivoTape to seal vertical laps to create a windtight system where laps do not occur at a rafter.

- For Cambrian, DuoPlain and Plain Tiles remove section of Underlay Support Tray by cutting along the score line.

COMPONENTS

Sold individually

SPIRTECH 400 2S

Roll Size	1.5 × 50m
Roll Area	75m²
Weight	240g/m²
Material	Dark grey, 4-layer, spun bond polypropylene

UNDERLAY SUPPORT TRAY

Tray Length	1.5m
Material	Recycled PVC
Pack Quantity	25

ACCESSORIES

DIVOTAPE

Roll Length	25m
Material	UV-resistant polyethylene foil with mesh reinforcement

6 UNDERLAY AND INSULATION
SPIRTECH 400 2S AND UNDERLAY SUPPORT TRAY

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CUSTOMER SERVICE HOTLINE: 03705 601000

1

UNDERLAY AND INSULATION
SPIRTECH 400 2S AND UNDERLAY SUPPORT TRAY 7

RAPID LOFT BOARD INSULATION

A straight-forward and high-performance way to create a loft platform. Rapid Loft Board's extremely efficient insulating layer and sturdy 8mm OSB facing can turn roof spaces into practical storage areas.

570
1170
108 or 148

Rapid Loft Board Insulation
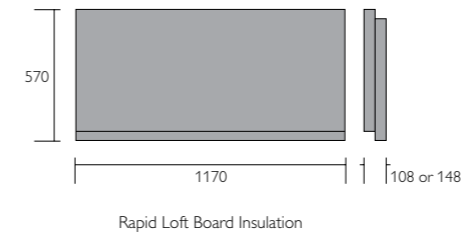
Property Insulation	Description	Standard
Material	PIR (Polyisocyanurate) Rigid Foam Aluminium Film Surfaces 8mm Chipboard (Class P5)	
Thermal Conductivity	λ = 0.023 W / m.K Declared Value (λ = 0.024 W / m.K Top Rating)	BS EN 13165
Dimensions	1170 x 570mm (Outer) 1150 x 550mm (Fitted)	
Coverage	0.67m² per board (Outer) 0.63m² per board (Fitted)	
Thickness	100 or 140mm (+8mm board)	
Diffusion	System Vapour-tight sd-value 1500	BS EN 12086
Compressive Strength	>100kPa	BS EN 826
Youngs Modulus	6.0 N/mm²	
Fire Rating	Class E	BS EN 13501-1
Interlock	Shiplap (PIR) Tongue & Groove Connection	

GUIDANCE NOTES

- Should not be used as a structural floor.
- Low and high level loft ventilation should be used in accordance with BS 5250:2011.
- Where Rapid Loft Board Insulation meets adjoining structures, gaps should be allowed for thermal expansion. These gaps should be filled with breathable insulation material such as mineral fibre.
- In ceilings measuring 20m or more, an expansion joint should be provided in the centre of the platform.
- A gap of 12mm should be left around hot water pipes and 75mm around hot flues.

COMPONENTS
Sold by the pallet

Quantity per Pallet 20 boards (100mm); 16 boards (140mm)

Coverage per Pallet 12.7m² (100mm); 10.1m² (140mm)

FEATURES

- Conveniently sized to fit through the loft hatch
- Available in two thicknesses: 100mm and 140mm (+8mm board)
- Easy to fit using standard tools and fixings
- Tongue and groove board and shiplap on the foam

COMPATIBILITY

- Suitable for use with all pitched roofs

PERFORMANCE

- Designed to meet a U-value of 0.16W/m² or better when laid alone or in conjunction with existing insulations
- Complies with BS EN 13165:2008 Thermal insulation products for buildings, factory-made rigid polyurethane foam products
- Performance will not deteriorate over time

620
203

500
25
5

Fascia Grille

100
26
200
100
485
20
65

Q
R

Eaves Ventillation Tray
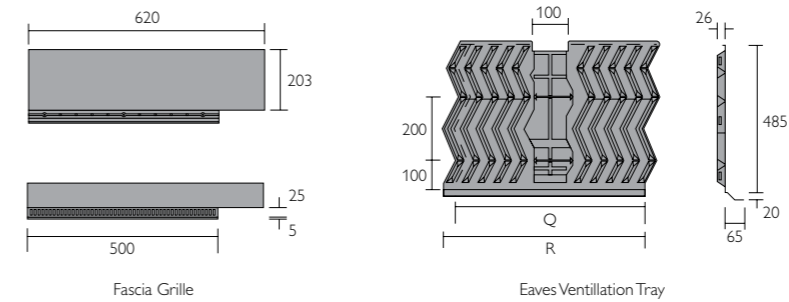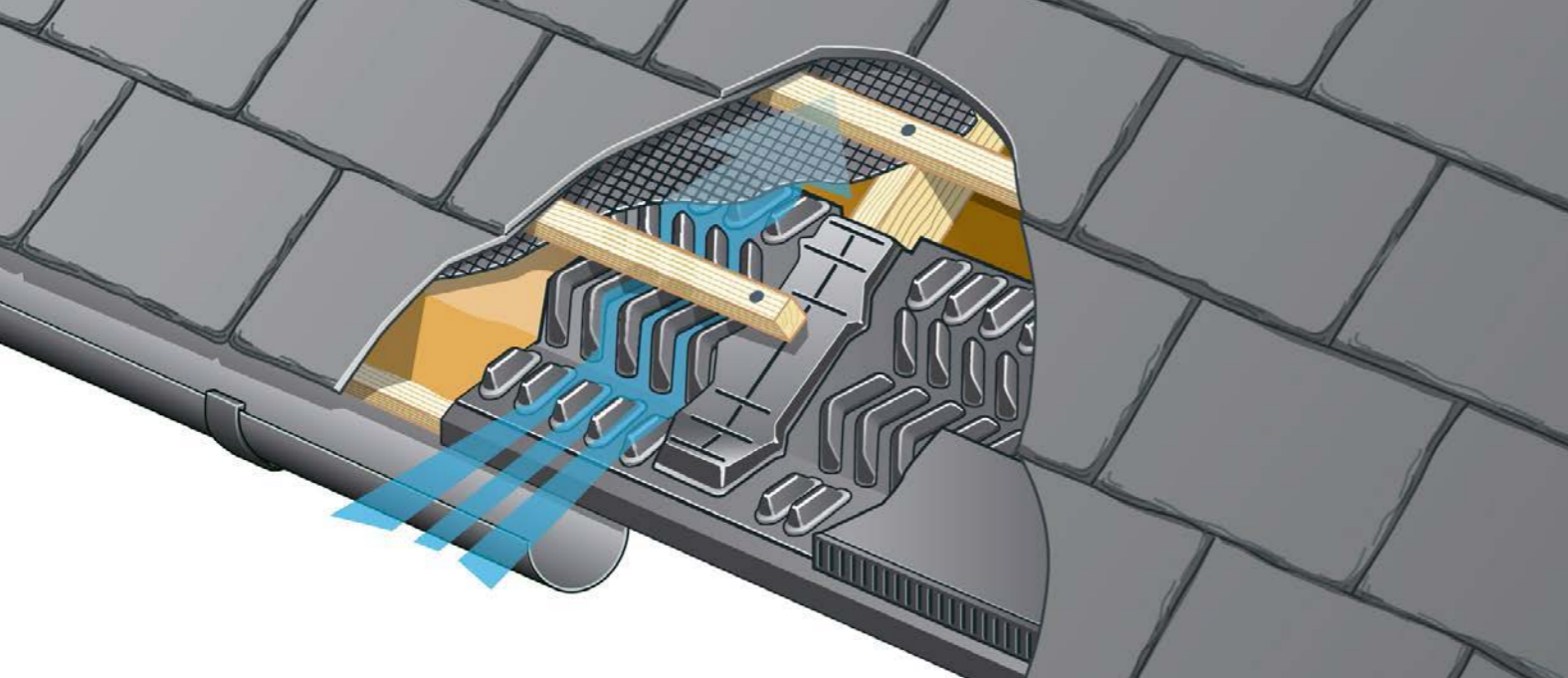
Product Measurements (mm)

	Q	R
Eaves Vent 450-600mm	600	634
Eaves Vent 350-450mm	450	484

REDVENT EAVESVENT

The RedVent EavesVent provides continuous over-fascia eaves ventilation. For use when insulation is laid between or on top of the horizontal ceiling joists.

FEATURES

• Ventilates to comply with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof

• Suitable for rafter spacing between 350-600mm centres (subject to pack used)

• Removes the need for unsightly grilles in the soffit board which over time could become clogged

• Eliminates the need for a tilting fillet and reduces the required height of the fascia board

• Can be installed with or without a soffit board

• 350-450mm pack is sufficient to cover 6 metres of eaves at 450mm rafter centres and 4.9 metres at 350mm centres

• 450-600mm pack is sufficient to cover 6 metres of eaves at 600mm rafter centres and 4.5 metres at 350mm centres

COMPATIBILITY

• Suitable for use with most pitched roofing materials

• Compatible with all of the Redland range of Eaves Clips

• Where Eaves Clips or Eaves Comb are required for use with a particular tile profile, it is acceptable to fix them through the Fascia Grille of the RedVent EavesVent

PERFORMANCE

• Minimum pitch will depend on the minimum pitch of the roof covering

• Maximum pitch varies with tile used. Please contact Technical Solutions Hotline on 03708 702595

• The effective ventilation area per metre run of eaves is 14,600mm²

• Mechanically fix all tiles at the eaves

• Fit to straight and level softwood fascia

REDVENT EAVESVENT (MINI STONEWOLD)

50 x 25mm SW tiling batten
Trays overlap
Extension tray
Spirtech 400 2S
Mini Stonewold slate
Apron
Fascia Grille Unit
Eaves Ventilation Tray

Fascia board
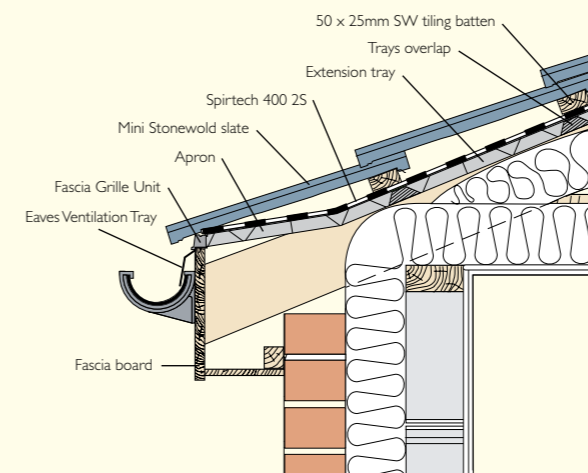
GUIDANCE NOTES

• Use extension trays where the top of the insulation is greater than 450mm from the fascia when measured up the rafter. Where this distance is greater than 830mm, use two rows of extension trays.

COMPONENTS

Each RedVent EavesVent pack contains:

• 12 fascia grilles with attached apron (PVC – black)

• 10 Eaves Ventilation Trays in the 450-600mm pack
14 Eaves Ventilation Trays in the 350-450mm pack (PVC – black)

• Aluminium Alloy nails (45 x 2.35mm)

Each Extension Tray pack contains:

• 10 trays in the 450-600mm pack

• 14 trays in the 350-450mm pack

10 EAVES SYSTEMS
REDVENT EAVESVENT

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2 EAVES SYSTEMS
REDVENT EAVESVENT **11**

REDVENT 25 OVER-FASCIA VENT

The RedVent 25 Over-Fascia Vent provides unobtrusive continuous ventilation at the eaves for use where the insulation is installed either between or above the rafters.

48

500 | 58

RedVent 25 Over-Fascia Vent
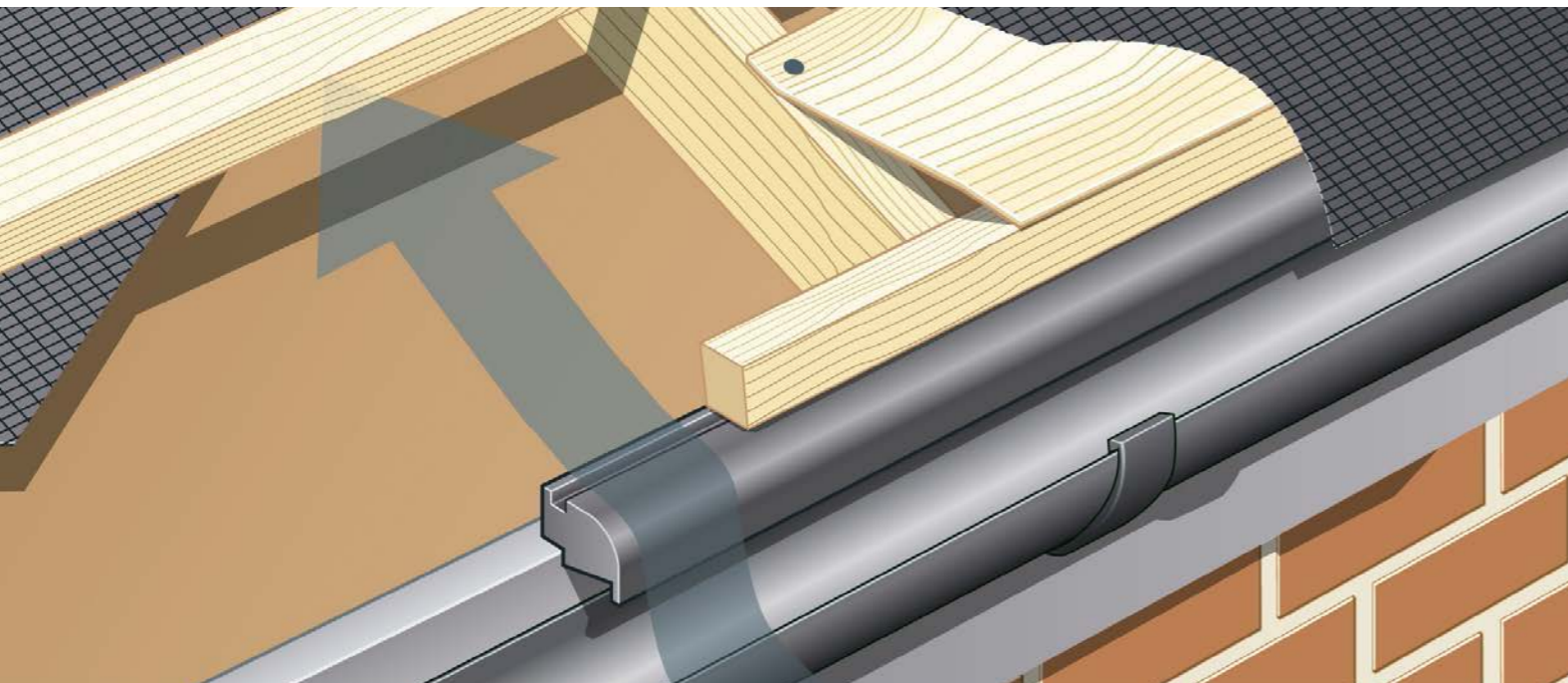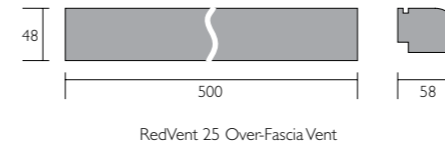
REDVENT 25 OVER-FASCIA VENT (GROVEBURY)

Grovebury tile. Must be mechanically fixed
Eaves Comb Filler nailed to 25 × 25mm SW batten
25 × 25mm SW batten
RedVent 25 Over-Fascia Vent
SW tilting fillet
50mm air space
Spirtech 400 2S

GUIDANCE NOTES

- Install a 4mm thick tilting fillet with a positive fall to support underlay over the fascia vent.
- Do not extend underlay into the gutter unless 25mm spacer blocks are positioned behind the gutter brackets.
- Suitable for softwood fascia boards 25mm thick and above.
- No rafter tray required when underlay is fully supported by insulation.
- For fascia board heights contact Technical Solutions Hotline on 03708 702595.
- The gutter's size and position will need to be calculated to ensure that rainwater discharges directly into it.

COMPONENTS

Each RedVent 25 Over-Fascia Vent pack contains:
- 12 Fascia Grilles (Polypropylene – black) sufficient for 6 metres of eaves

FEATURES

- Ventilates to comply with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof
- Used for any combination of rafter spacing
- Can be installed with or without a soffit board
- Eaves closure is achieved for Regent, Grovebury, Landmark Double Pantile, Fenland Pantile, Cathedral Clay Pantile and Old Hollow Clay Pantile by using Eaves Comb

COMPATIBILITY

- Suitable for use with most pitched roofing materials
- Where Eaves Clips, Eaves Comb or Underlay Support Trays are required, a 25 × 25mm softwood clip batten should be secured through the RedVent 25 Over-Fascia Vent into the fascia board with 100 × 4mm galvanised nails
- Suitable for uPVC fascias with additional timber fillet behind the fascia board

PERFORMANCE

- Minimum pitch will depend on the minimum pitch of the roof covering
- Maximum pitch varies with tile used. Please contact Technical Solutions Hotline on 03708 702595
- The effective ventilation area per metre run of eaves is 25,000mm^2

12 EAVES SYSTEMS
REDVENT 25 OVER-FACIA VENT

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2

EAVES SYSTEMS **13**
REDVENT 25 OVER-FACIA VENT

800
6000
Rafter Roll

220
1000
Rapid 2-in-1 Eaves Tray

1000
Eaves Comb

RAPID EAVES VENT SYSTEM

The Rapid Eaves Vent system is designed for use in cold roofs as a means of introducing low level roof space ventilation.

FEATURES

- 3-part system, sold separately:

  Rapid 2-in-1 Eaves Tray – provides continuous ventilation over the fascia while supporting the underlay at the eaves to ensure a positive fall of the underlay into the eaves gutter

  Rafter Roll – a semi-rigid, roll-out rafter ventilation tray that maintains an uninterrupted air ventilation gap between the underlay and ceiling-level insulation in the loft space

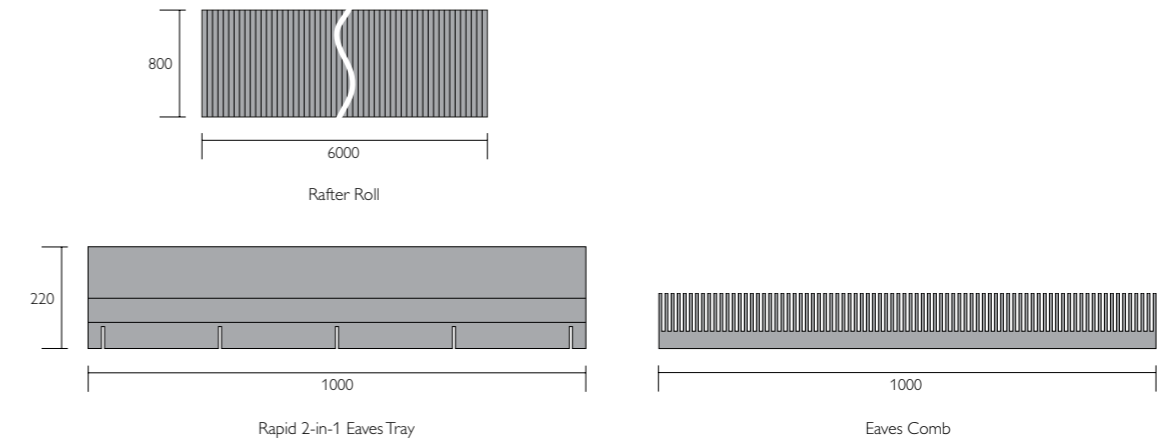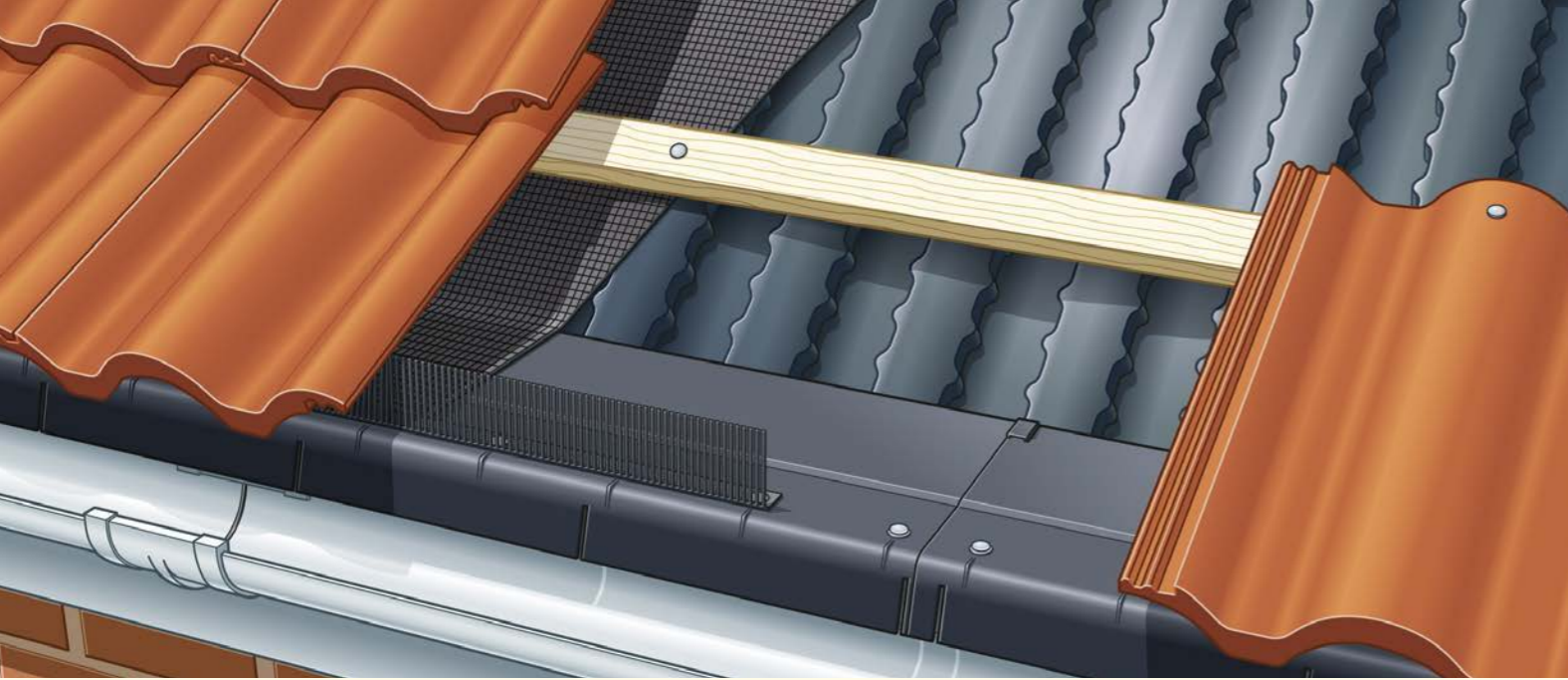 **Eaves Comb** – used to prevent birds, large insects, rodents etc. from entering the roof space. Eaves Combs are required for the following Redland tiles: Landmark Double Pantile, Grovebury, Regent, Fenland Pantile, Cathedral Clay Pantile, Old Hollow Clay Pantile

- Maintenance-free
- Quick and easy to install
- Can be used with either a non-breather or vapour permeable underlay. High level ventilation is still required for both options

COMPATIBILITY

- Works with any Redland slate / tile or similar
- Suitable for use with most pitched roofing materials
- Compatible with timber fascias up to 25mm thick
- Suitable for uPVC fascias with an additional timber fillet behind the fascia board
- Suitable for rafter centres up to 600mm

PERFORMANCE

- Rafter pitch range is 15 - 70°
- The effective ventilation area per metre run of eaves is 10,000mm^2

RAPID EAVES VENT SYSTEM (GROVEBURY)

Spirtech 400 2S
50 x 25mm SW tiling batten
Eaves Comb
Mini Stonewold slate
Rafter Roll
Rapid 2-in-1 Eaves Tray
Fascia board
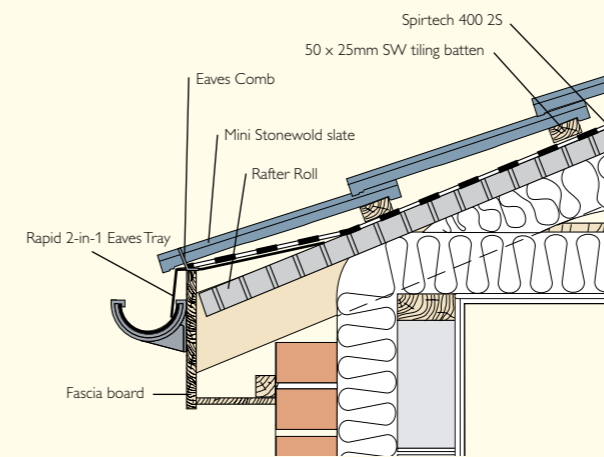
GUIDANCE NOTES

- Rafter Roll to be secured to the rafters using 25 x 2.65mm clout nails at every rafter intersection, both at the top and bottom of the roll.
- Lay the 2-in-1 Eaves Tray over the fascia board using the lugs to locate the correct position.
- With a timber fascia, fit Eaves Comb as required then nail the 2-in-1 Eaves Tray into place through the nail bosses with 60 x 3.35mm Aluminium Alloy nails.
- With a uPVC fascia either nail the 2-in-1 Eaves Tray at every rafter intersection or nail into a timber fillet installed immediately behind the uPVC fascia. Nail with 60 x 3.35mm Aluminium Alloy nails.
- Ensure trays are interlocked correctly before fixing.

COMPONENTS

3-part system sold separately

RAFTER ROLL

Roll Size	6m x 0.8m
Material	PVC

RAPID 2-IN-1 EAVES TRAY

Tray Length	1m
Material	Polypropylene

EAVES COMB

Comb Length	1m
Material	Polypropylene

CLOAKED VERGE

The Cloaked Verge continues the tiling over the gable end using a one-piece concrete tile. The system has very high resistance to storm damage and, with no mortar required, it removes concerns about mortar failure.

Diagrams (top)

Concrete Cloaked Verge Left-hand — Half tile — Concrete Cloaked Verge Right-hand

365 315 19
19
130
288
40 325 150 275 40

Concrete Cloaked Verge

A
75 Top of batten
Module increased by 150mm when Half Tiles are used
38-50

Concrete Cloaked Verge Left-hand — Concrete Cloaked Verge Right-hand
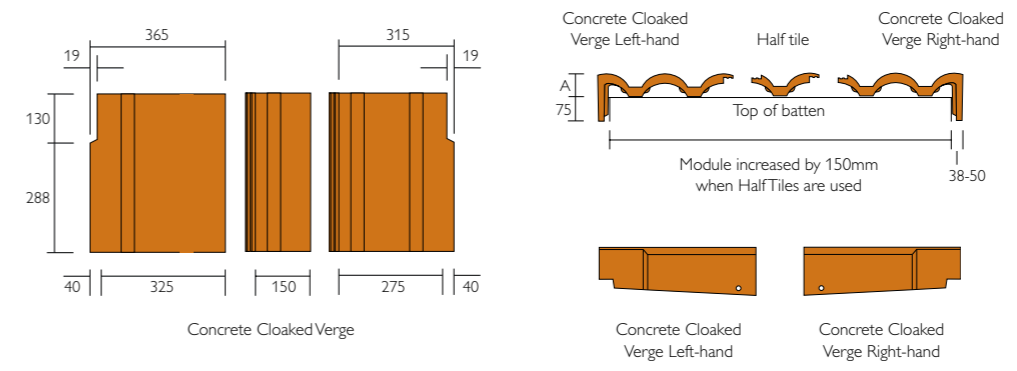
Product Measurements (mm)

Profile	A
Cathedral Clay Pantile	65
Landmark Double Pantile	47
Landmark Double Roman	37
Regent	49
Grovebury	47
50 Double Roman	37
Renown	30

FEATURES

- Easy to lay as it interlocks to the next tile
- The quickest and easiest method of installing profiled verge tiles
- Provides a neat finish to the verge
- Complies with BS 5534:2014 requirements for mechanical fixing

COMPATIBILITY

- Available for all our profiled tiles in all available colours except Landmark Single Pantile, Fenland Pantile, Redland 49, Postel Clay Tile and Old Hollow Clay Pantile

PERFORMANCE

- There is no maximum pitch on lean-to roofs or where lead roll details are used
- On duo-pitch roofs above 45° the top cloaked verge tiles must be cut to a mitre
- Minimum pitch will depend upon the minimum pitch for the tile profile and surface finish
- Minimum headlap will depend upon tile profile, surface finish and rafter pitch
- Maximum headlap is 125mm (71mm for Cathedral Clay Pantile)
- Maximum pitch of cloaked verge depends upon maximum pitch of ridge/monoridge system

CONCRETE CLOAKED VERGE WITH VERTICAL TILING (REGENT)

Nylon Plug
Spirtech 400 2S lapped to form continuous membrane
Undercloak touching inside face of Cloaked Verge Tile
Tile batten cut short of undercloak
Vertical Plain Tile, Winchester cut
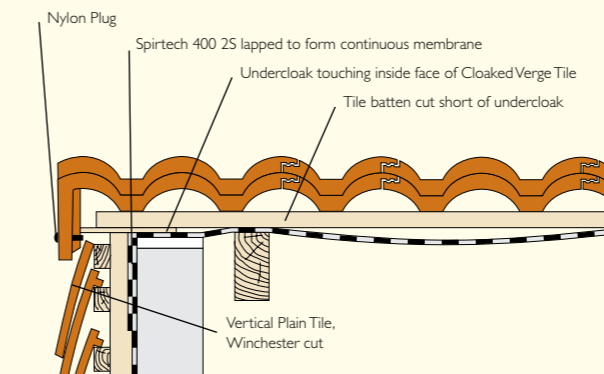
CONCRETE CLOAKED VERGE WITH TIMBER SARKING (REGENT)

Undercloak touching inside face of Cloaked Verge Tile
Brickwork built up to underside of tile battens
Spirtech 400 2S underlay extending over external brickwork and turned down 30mm over outer leaf
Tile batten cut short of undercloak
Timber sarking
Nylon Plug
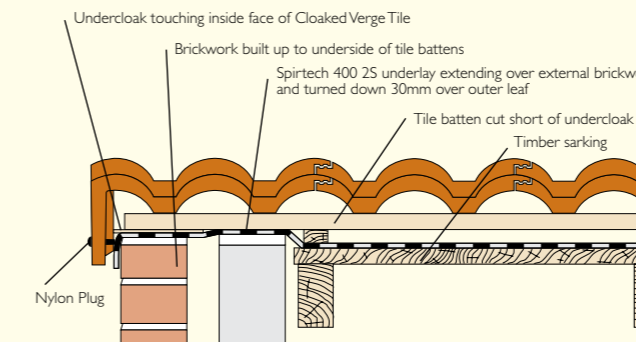
GUIDANCE NOTES

- When setting out the roof, the verge overhang should be the same at both verges. The use of Half Tiles (Two Thirds Tile for Cathedral Clay Pantile) in each course will allow the overhang to be reduced to a minimum. Half Tiles and Two Thirds Tiles are available in all colours as the Cloaked Verge.
- Cloaked Verge Tiles are not suitable for raking verges.
- Every Cloaked Verge Tile must be nail fixed, and the integral nylon plug must interlock with the Cloaked Verge Tile in the course below.
- The left-hand Cloaked Verge Tile on the eaves course must be clipped to the adjacent tile using a C-Clip (9179). This is supplied in every Block-End Ridge Tile pack (not applicable to Cathedral Clay Pantile).
- Finish ridge with Block-End Ridge Tiles or Ridge End Caps.
- An undercloak should be installed between the battens and the structure, touching the inside face of the cloaked verge tile, to prevent bird ingress.
- At top edge abutments, a lead flashing or Wakaflex Rapid Flashing should dress down the face of the cloak to provide a full weathertight covering. For lead, the flashing length will be dependant on the rafter pitch. For Wakaflex Rapid Flashing, the flashing length will be a minimum of 90mm.
- In cases where no batten end fixing is available on roof pitches of 30° and above, a second batten is required to support the main batten. It is essential to secure the second batten over at least two rafters.
- Where timber sarking is used over the main roof area, the tiling battens should rest on the external brickwork or cladding (see detail shown). On overhanging verges, the final counterbatten should be 6mm thinner to allow for undercloak.

COMPONENTS

CLOAKED VERGE TILE

Length	418mm (411mm for Cathedral Clay Pantile)
Material	Concrete (Clay to match Redland Cathedral Clay Pantile)
Plug Material	Nylon

ACCESSORIES

- Half-Tile (concrete tiles)
- Two-Thirds Tile (Cathedral Clay)
- Block-End Ridge Tile
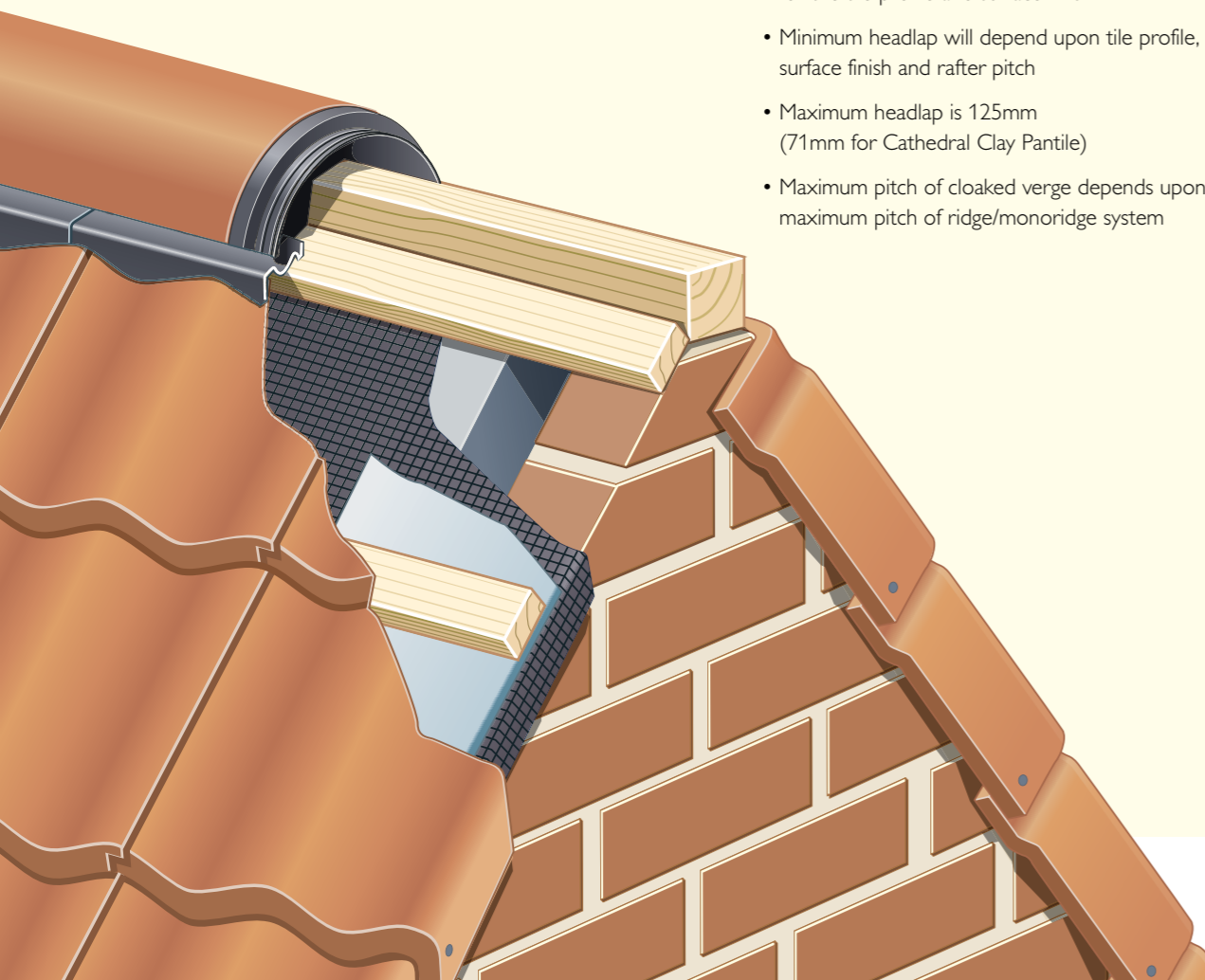
AMBI-DRY, RAPID AND SLATE 10 DRY VERGE SYSTEMS

These systems provide a neat, maintenance-free verge for most of our slates and profile tiles. With very high resistance to storm damage and with no mortar required, they remove concerns about mortar failure.

Product Measurements (mm)

Profile	A	B	C	D	E	F	G
Cambrian Slate	60	55	40	60	85	205	305
Slate 10 range	72	20	60	85	150	255	390
Landmark Double Pantile / Grovebury	72	20	60	85	150	255	390
Landmark Double Roman / 50 Double Roman	72	20	60	85	150	255	390
Regent	72	20	60	85	150	255	390
Renown	72	20	60	85	150	255	390
Mini Stonewold (inc MockBond)	72	20	60	85	150	255	390
Stonewold II	65	45	80	100	145	305	390
DuoPlain	53	25	54	73	115	160	240
Landmark Single Pantile / Fenland Pantile / Redland 49	57	20	60	85	150	255	355

Ambi-Dry Verge Unit (Plan View) with Ridge Comb

Ambi-Dry Verge Unit (Internal Elevation)

Ambi-Dry Batten End Clip

Ambi-Dry Verge Unit (Internal Elevation) showing Eaves Stop and Ridge Comb

Ambi-Dry Verge Clip

FEATURES

- Secure fixing system provides high resistance to wind uplift for both verge tiles and dry verge system
- Quick to install and can be laid at variable gauges to suit the minimum and maximum headlaps of the tiles
- Ambi-Dry and Rapid Verge are adapted on site to fit either the left or right-hand verge
- Slate 10 Dry Verge is available as dedicated left-hand and right-hand units
- Eliminates the need for an undercloak
- Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing

AMBI-DRY VERGE SYSTEM WITH OVERHANG (CAMBRIAN)

Ambi-Dry Verge Unit and Clip
Slate batten finished 50mm beyond face of bargeboard
Spirtech 400 2S

AMBI-DRY VERGE SYSTEM WITH VERTICAL SLATING (CAMBRIAN)

Ambi-Dry Verge Unit and Clip
Cambrian Slate, cut at the head of the slate to match the roof pitch and fixed into the parallel batten
Batten running parallel to the verge
Slate batten extending 50mm beyond the face of the vertical slates
Spirtech 400 2S
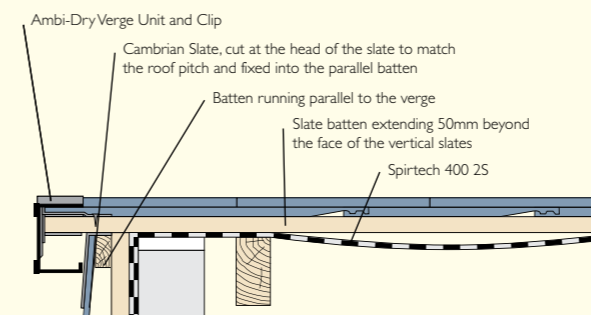
AMBI-DRY VERGE SYSTEM (MINI STONEWOLD)

Ambi-Dry interlocking Verge Unit
Mini Stonewold Half Tile
Mini Stonewold tile with Left-hand interlock removed
Spirtech 400 2S underlay extending over external brickwork
Brickwork built up to underside of tile batten
Slate batten finished 60mm beyond face of wall
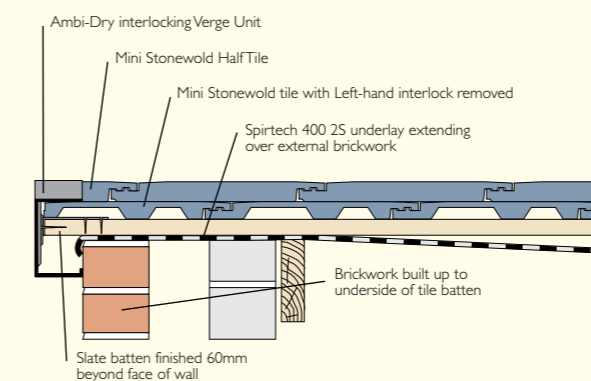
GUIDANCE NOTES

- To ensure that the system is located correctly, all battens should oversail the bargeboard, brickwork or cladding by 60mm and be sawn off square (see details opposite) except Cambrian Slate and Stonewold II where it is 50mm and DuoPlain, Fenland Pantile and Redland 49 where it is 45mm.
- For Cambrian Slate use Standard States and Slate-and-a-Halves alternately on both verges. For all other slates use Standard Slates with interlock removed and Left-hand Half Slates alternately on left-hand verges. Use Standard Slates and Right-hand Half Slates alternately on right-hand verges.
- The systems are not suitable for raking verges.
- At the eaves, an Eaves Closure should be used to prevent both the ingress of water and birds while providing the fixing position for the eaves clip.
- Each Verge Unit is secured at the head by the verge/batten end clip and by lugs locating into channels on the top and bottom, along the length of the unit. It is essential that all three points of contact are engaged.
- When used at a top edge abutment, or similar situation, a lead flashing or Wakaflex Rapid Flashing should be dressed over the head of the top verge unit. For lead, the flashing length will be dependent on the rafter pitch. For Wakaflex Rapid Flashing, the flashing length will be a minimum of 90mm.
- At the ridge, a Ridge Comb should be used to prevent the ingress of birds and a Block-End Ridge tile or Ridge End Cap should be used.
- Where timber sarking is used over the main roof area, the tiling battens should rest on the extreme brickwork or cladding.
- Verge units for Cambrian Slate and Stonewold II are fixed by a Verge Clip included in the pack. Verge units for all other tiles and slates are fixed by a batten end clip included in the pack.

COMPONENTS

Each Verge System contains:
- Verge Unit × 10 (uPVC) or for Slate 10, Verge 10 left-hand or 10 right-hand unit
- Verge Clips or batten end clips × 10 (Stainless Steel)

Additional Eaves/Ridge packs will be required for each installation, which includes:
- Eaves Stop End × 1 (uPVC) + Closer Clip (Stainless Steel)
- Ridge Comb × 1 (uPVC) + Closer Clip (Stainless Steel)

- In addition, Block-End Ridge Tiles or Ridge End caps will be required for all ridge situations.

COMPATIBILITY, PERFORMANCE AND COLOURS

Maximum Pitches

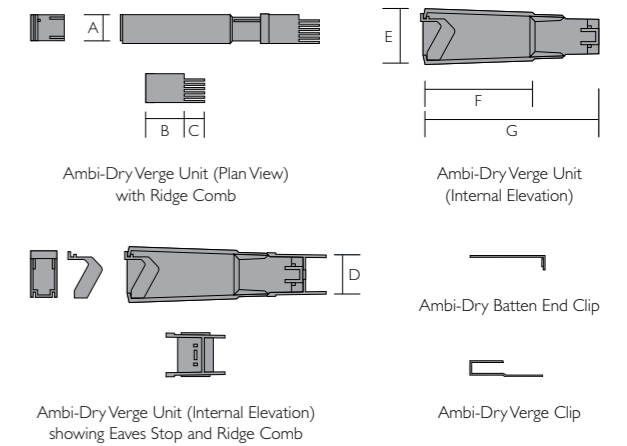| Tile / Slate	Duo-pitch Roofs	Mono-pitch Roofs
Cambrian Slate	60°	67.5°
Stonewold II	44°	44°
Mini Stonewold (inc MockBond)	67.5°	72.5°
Landmark Double Pantile / Grovebury	67.5°	57.5°
Landmark Double Roman / 50 Double Roman	62.5°	67.5°
Regent	67.5°	52.5°
Renown	60°	65°
DuoPlain	60°	47.5°
Slate 10 range	55°	45°
Redland 49	52.5°	60°
Landmark Single Pantile / Fenland Pantile	47.5°	67.5°

There is no maximum pitch on lean-to roofs or where lead roll details are used
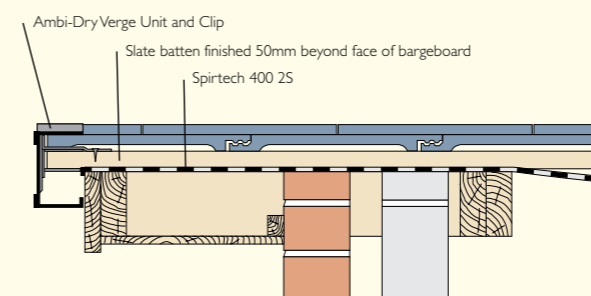Minimum pitch will depend upon the minimum pitch recommended for the roof tiles

Dry Verge System and Colours

Ambi-Dry Verge	Slate 10 Dry Verge	Rapid Verge
Grey	-	-
Grey	-	-
Grey / Terracotta / Brown	-	Slate Grey / Rust
Grey / Terracotta / Brown	-	Slate Grey / Rust
Grey / Terracotta / Brown	-	Slate Grey / Rust
Grey / Terracotta / Brown	-	Slate Grey / Rust
Grey / Terracotta / Brown	-	Slate Grey / Rust
Grey / Terracotta / Brown / Red	-	-
-	Grey / Terracotta / Brown	-
Grey / Terracotta / Brown / Red	-	Slate Grey / Rust
Grey / Terracotta / Brown / Red	-	Slate Grey / Rust

18 VERGE SYSTEMS
AMBI-DRY, RAPID AND SLATE 10 DRY VERGE SYSTEMS

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3 VERGE SYSTEMS 19
AMBI-DRY, RAPID AND SLATE 10 DRY VERGE SYSTEMS

Universal Angle Hip Tile
(sold separately)
226 · 450 · 67

Third Round Hip Tile
(sold separately)
233 · 450 · 70

Hip Tile Support
234 · 31 · 445

Hip/Ridge Junction
(sold separately)
305 · 237

Rollable Weathertight Membrane
320 · 2750

DRY HIP SYSTEM

The Dry Hip System has delivered years of trouble-free service on tens of thousands of properties throughout the UK. With very high resistance to storm damage, the Dry Hip System has exceptional durability and is designed to last the lifetime of the roof.

FEATURES

• Provides a neat and attractive finish to the hip line

• Hip Tiles are secured to the appropriate size hip batten using Stainless Steel wood screws, which give exceptional resistance to wind uplift

• Quick to lay and can be used even when bad weather is expected

• Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing

COMPATIBILITY

• Suitable for use with the DryVent Ridge System

• Suitable for use with Third Round and Universal Angle Hip Tiles. For Hip Tile colour availability, see Fittings Colour Range tables on pages 69, 73 and 78

• Not suitable for use with Cathedral Clay Pantile, Landmark Single Pantile, Fenland Pantile, Redland 49, Postel Clay Tile and Old Hollow Clay Pantile

PERFORMANCE

• Pitch range varies according to plan angle and tile profile. Please contact Technical Solutions Hotline on 03708 702595

• Minimum and maximum pitch will depend upon the minimum and maximum pitch of the roof tiles

• This system is designed for use where pitches to either side of the hip are equal. Where the roof pitches are uneven please contact Technical Solutions Hotline on 03708 702595

DRY HIP SYSTEM WITH THIRD ROUND HIP TILE (GROVEBURY)

S/S Wood Screw with Neoprene Washer
Third Round Hip with nail holes
Third Round block end hip
50 x 50mm SW hip batten
Hip Tile Support
Rollable membrane (grey)
Grovebury tile cut to rake of hip and mechanically fixed
Spirtech 400 2S
S/S Hip Batten Fixing Strap nailed to hip rafter and hip batten with S/S Ring Shank Nails
30mm max. gap between the cut edge of the tile and the hip batten
Hip Batten Spacing Blocks
Aluminium Tail Clips

DRY HIP SYSTEM WITH UNIVERSAL ANGLE HIP TILE (CAMBRIAN)

S/S Wood Screw with Neoprene Washer
Rollable weathertight membrane (grey)
Hip Tile Support
Cambrian Slate cut to rake of hip
Universal Angle Hip with nail holes
Universal Angle Block-End Hip
25 x 50mm SW noggins cut between rafters and nailed with 50mm galvanised nails
Spirtech 400 2S

GUIDANCE NOTES

• The Dry Hip System is suitable for traditional timber rafter, timber trussed rafter and rigid sarking constructions at all pitches and plan angles subject to limitations of tile types.

• Dry Hip can be adapted to ventilate the batten cavity when used with Spirtech 400 2S underlay. Hip tile support must be fixed to an additional hip batten fixed over the rollable membrane.

• Care must be taken when using timber sarking that the hip rafter is raised using timber batten(s) to ensure that the wood screw penetrates the hip batten by a minimum of 15mm.

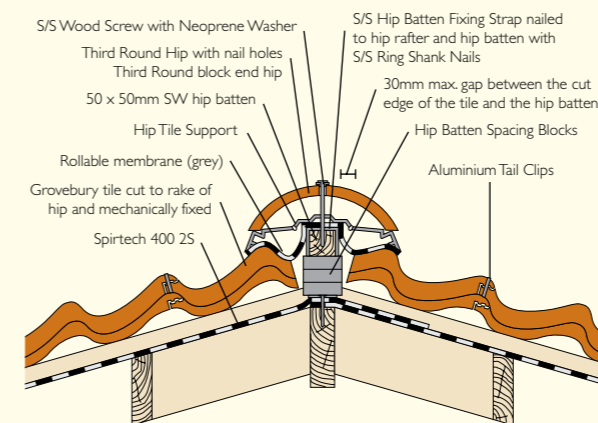• All profiles require a standard 50 x 50mm hip batten, with the exception of the Slate 10 range when this batten is reduced to 50 x 38mm.

• For Cambrian Slate contact Technical Solutions Hotline on 03708 702595.

• The system should start at the eaves with a Block-End Hip Tile.

• For pitches up to 60° (and plan angle is 90°) where two hips intersect with a DryVent Ridge a Hip/Ridge junction should be used.

• For pitches above 60° or where the Dry Hip System does not finish at a conventional ridge intersection with two hips, the Hip/Ridge junction should be completed with a Wakaflex Rapid Flashing saddle.

• Cambrian Double Slates will be required on all courses on either side of each hip below 25°. At pitches greater than this Cambrian Slate-and-a-Halves can be used.

COMPONENTS

Each Dry Hip System pack contains sufficient components to secure 2.7 metres of concrete Hip Tiles. Each pack contains:

• Rollable weathertight membrane (grey) – 320mm x 2.75m
• Hip Tile Supports (Polypropylene – black)
• Hip Batten Straps (Stainless Steel)
• Spacer Blocks (PVC – black)
• Head Clips (Stainless Steel)
• Tail Clips (Aluminium)
• 100mm Wood Screws (Stainless Steel)
• Rafter Nails (Stainless Steel)
• Hip Batten Nails (Stainless Steel)

• In addition, concrete Hip Tiles with nail holes will be required in a colour to suit, with matching Block-End Hip Tiles at the eaves.

• A Hip/Ridge Junction will also be required where appropriate.

20 HIP SYSTEMS
DRY HIP SYSTEM

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4 HIP SYSTEMS
DRY HIP SYSTEM

21

RAPID HIP SYSTEM

The Rapid Hip System is an easy and quick-to-fit, maintenance-free hip system with very high resistance to storm damage. With no mortar required it removes concerns about mortar failure. The system also ventilates the batten cavity when used with Spirtech 400 2S underlay.

226 — 67
Universal Angle Hip Tile
(sold separately)

450

233 — 70
Third Round Hip Tile
(sold separately)

450

235 — 2700

GRP Hip Tile Support Tray

305 — 237
Hip/Ridge Junction
(sold separately)

295 — 5000
Rollable Weathertight Membrane

FEATURES

- Hips are up to a third quicker to complete than when mortar bedded

- Hip Tiles are secured to the appropriate size hip batten using Stainless Steel woodscrews, which give exceptional resistance to wind uplift

- Provides a neat and attractive finish to the hip line

- Easy to install and can be used even when bad weather is expected

- Ventilates the batten cavity to comply with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof (when used with Spirtech 400 2S vapour permeable underlay)

- Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing

COMPATIBILITY

- Suitable for use with the Rapid Vented Ridge and Uni-Vent Rapid Ridge/Hip Systems

- Suitable for use with Third Round and Universal Angle Hip Tiles. For Hip Tile colour availability, see Fittings Colour Range tables on pages 69, 73 and 78

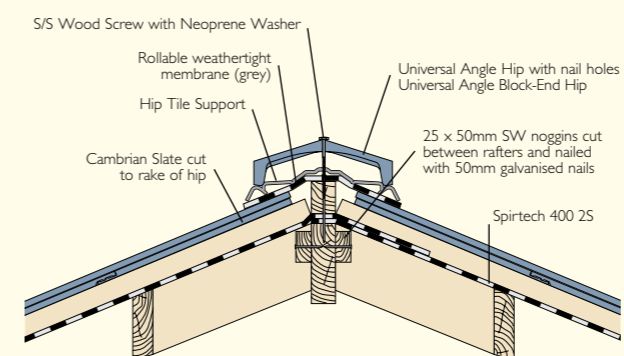- Suitable for use with the Redland range of tiles and slates

PERFORMANCE

- Pitch range varies according to plan angle and tile profile. Please contact Technical Solutions Hotline on 03708 702595

- Minimum and maximum pitch will depend upon the minimum and maximum pitch of the roof tiles

- This system is designed for use where pitches to either side of the hip are equal. Where the roof pitches are uneven please contact Technical Solutions Hotline on 03708 702595

RAPID HIP SYSTEM WITH THIRD ROUND HIP TILE (GROVEBURY)

S/S Woodscrew with Neoprene Washer
Hip Tile Support
Rollable membrane
SW counterbatten min. 38mm wide abutting spacer batten
Grovebury Tile cut to rake of hip and mechanically fixed
Aluminium Tail Clips
Insulation board

S/S Hip Batten Fixing Strap nailed to hip rafter and hip batten with S/S Ring Shank Nails
50 × 50mm SW hip batten
Third Round Hip with nail holes
Third Round Block-end Hip
Hip Batten Spacing Blocks
SW spacer batten fixed to hip rafter to a height level with top of counterbattens
Spirtech 400 2S underlay to overlap on adjacent slope by a min.150mm

Hip rafter

RAPID HIP SYSTEM WITH UNIVERSAL ANGLE HIP TILE (CAMBRIAN)

S/S Wood Screw with Neoprene Washer
Rollable weathertight membrane (grey)
GRP Hip Tile Support Tray
Cambrian Slate cut to rake of hip and mechanically fixed

Universal Angle Hip with nail holes
Universal Angle Block-end Hip
25 × 50mm SW noggins cut between rafters and nailed with 50mm galvanised nails
Spirtech 400 2S

GUIDANCE NOTES

- The Rapid Hip System is suitable for traditional timber rafter, timber trussed rafter and rigid sarking constructions at all pitches and plan angles subject to limitation of tile types. Rapid Hip ventilates the batten cavity when used with Spirtech 400 2S underlay.

- Care must be taken when using timber sarking that the hip rafter is raised using timber batten(s) to ensure that the wood screw penetrates the hip batten by a minimum of 15mm.

- All profiles require a standard 50 × 50mm hip batten, with the exception of the Slate 10 range when this batten is reduced to 50 × 38mm for pitches up to 40° and 50 × 25mm above 40°. (Use a 50 × 38mm hip batten for Cambrian Slates above 25°).

- Ensure that the tile overhang at each eave is the same.

- The system should start at the eaves with a Block-End Hip Tile.

- For pitches up to 60° (and plan angle is 90°) where two hips intersect with a ridge, Hip/Ridge Junction should be used.

- For pitches above 60°, plan angles other than 90° or where the Rapid Hip System does not finish at a conventional ridge intersection with two hips, the Hip/Ridge junction should be completed with a Wakaflex Rapid Flashing saddle.

- Cambrian Double Slates will be required on all courses on either side of each hip below 25°. At pitches greater than this Cambrian Slate-and-a-halves can be used.
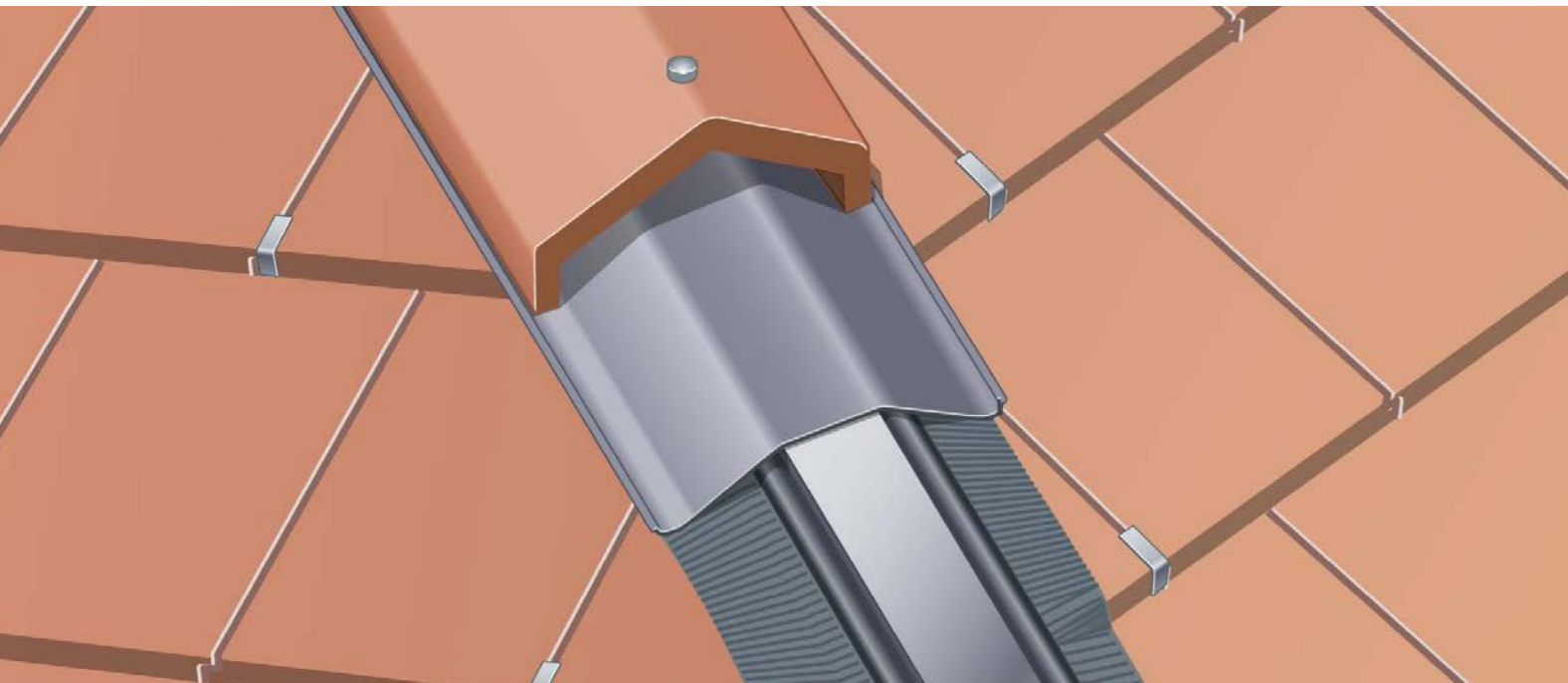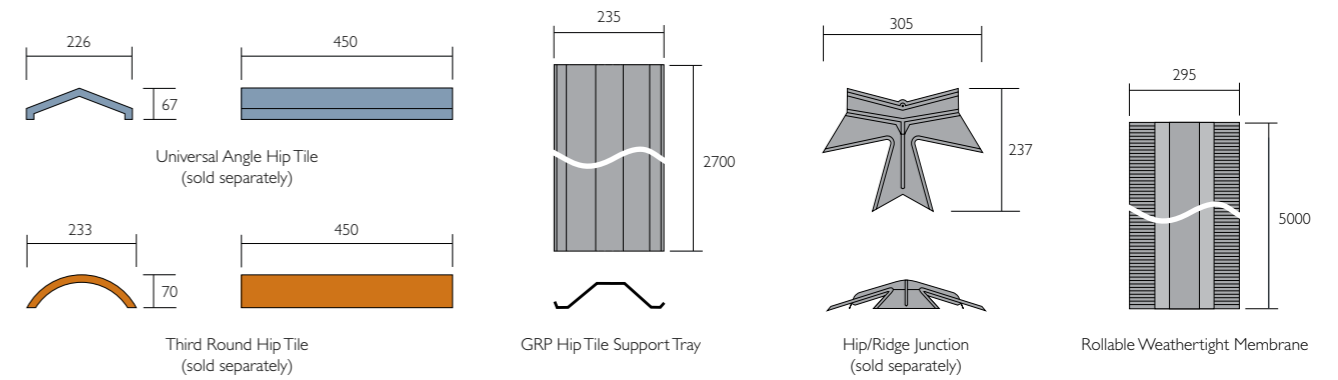
- For number of spacer blocks and maximum centres required see fixing instructions.

COMPONENTS

Each Rapid Hip pack contains sufficient components to secure 5 metres of concrete Hip Tiles:

- Rollable Weathertight Membrane (grey) – 295mm × 5m
- GRP Hip Tile Support Tray (grey)
- Hip Batten Straps (Stainless Steel)
- Spacer Blocks (PVC – black)
- Head Clips (Stainless Steel)
- Tail Clips (Aluminium)
- 100mm Woodscrews (Stainless Steel)
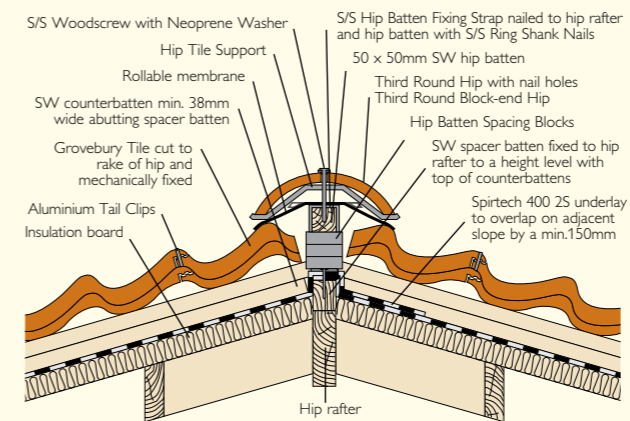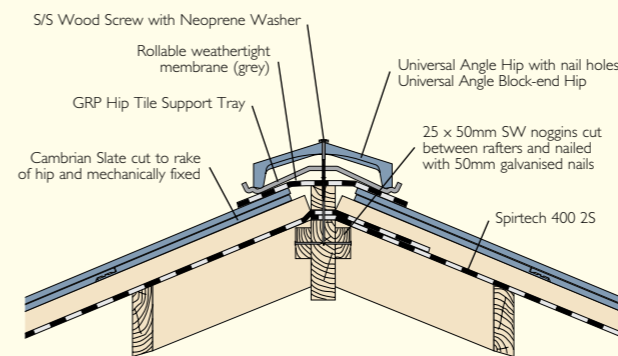- Rafter Nails (Stainless Steel)
- Hip Batten Nails (Stainless Steel)

- In addition, concrete Hip Tiles with nail holes will be required in a colour to suit, with matching Block-End Hip Tiles at the eaves.

- A 50 × 50mm or 50 × 38mm hip batten must be fixed.

- A Hip/Ridge Junction will also be required where appropriate.

22 HIP SYSTEMS
RAPID HIP SYSTEM

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4 HIP SYSTEMS
RAPID HIP SYSTEM **23**

CAMBRIAN MITRED HIP SYSTEM

Specifically designed for use with Cambrian Slates to achieve a neat mitred hip detail, whilst ensuring very high resistance to storm damage over a wide range of rafter pitches and plan angles.

FEATURES

- Provides a neat and attractive finish to the hip line
- Easy to install and can be used even when bad weather is expected
- Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing

COMPATIBILITY

- Suitable for use with all Cambrian Slate products

PERFORMANCE

- At 90° plan angle, the minimum pitch is 15° and the maximum pitch is 80°. For other plan angles, refer to the table adjacent

CAMBRIAN MITRED HIP SYSTEM

Stainless Steel Screw and Clip

Cambrian Mitred Hip Weathering Unit

Cambrian Double Slate or Slate-and-a-half cut to rake of hip, see guidance notes

Spirtech 400 2S

Trussed rafter
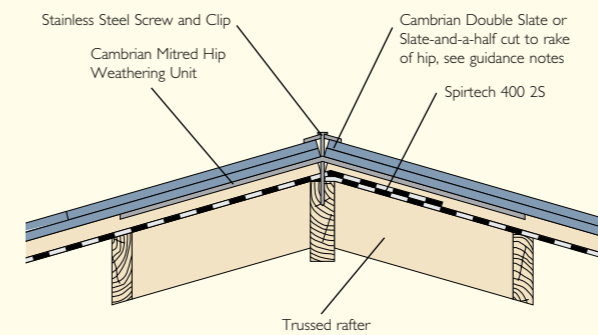
PLAN ANGLE AGAINST ROOF PITCH SHOWING APPROVED USAGE

Roof Pitch (degrees)	Roof Plan Angle (degrees)													
	90	95	100	105	110	115	120	125	130	135	140	145	150	155
15	•	-	-	-	-	-	-	-	-	-	-	-	-	-
17.5	•	•	•	•	-	-	-	-	-	-	-	-	-	-
20	•	•	•	•	•	•	-	-	-	-	-	-	-	-
22.5	•	•	•	•	•	•	•	-	-	-	-	-	-	-
25	•	•	•	•	•	•	•	-	-	-	-	-	-	-
27.5	•	•	•	•	•	•	•	•	-	-	-	-	-	-
30	•	•	•	•	•	•	•	•	•	-	-	-	-	-
32.5	•	•	•	•	•	•	•	•	•	•	-	-	-	-
35	•	•	•	•	•	•	•	•	•	•	•	-	-	-
37.5	•	•	•	•	•	•	•	•	•	•	•	-	-	-
40	•	•	•	•	•	•	•	•	•	•	•	•	-	-
42.5	•	•	•	•	•	•	•	•	•	•	•	•	-	-
45	•	•	•	•	•	•	•	•	•	•	•	•	•	-
47.5	•	•	•	•	•	•	•	•	•	•	•	•	•	-
50	•	•	•	•	•	•	•	•	•	•	•	•	•	-
52.5	•	•	•	•	•	•	•	•	•	•	•	•	•	-
55	•	•	•	•	•	•	•	•	•	•	•	•	•	-
57.5	•	•	•	•	•	•	•	•	•	•	•	•	•	-
60-80	•	•	•	•	•	•	•	•	•	•	•	•	•	•
82.5-90	-	•	•	•	•	•	•	•	•	•	•	•	•	•

GUIDANCE NOTES

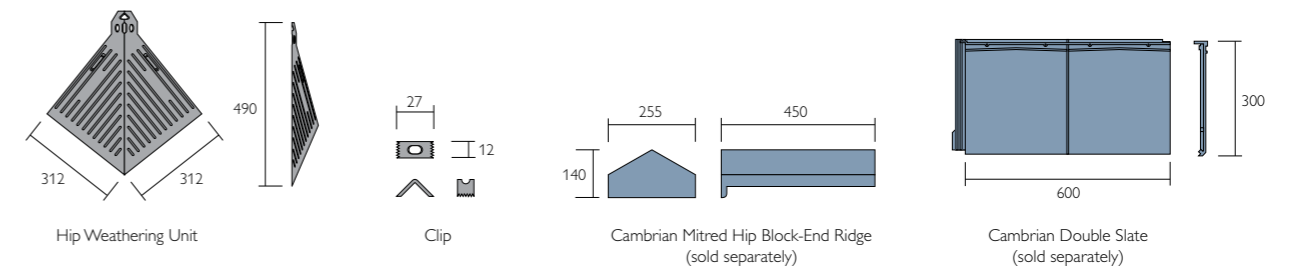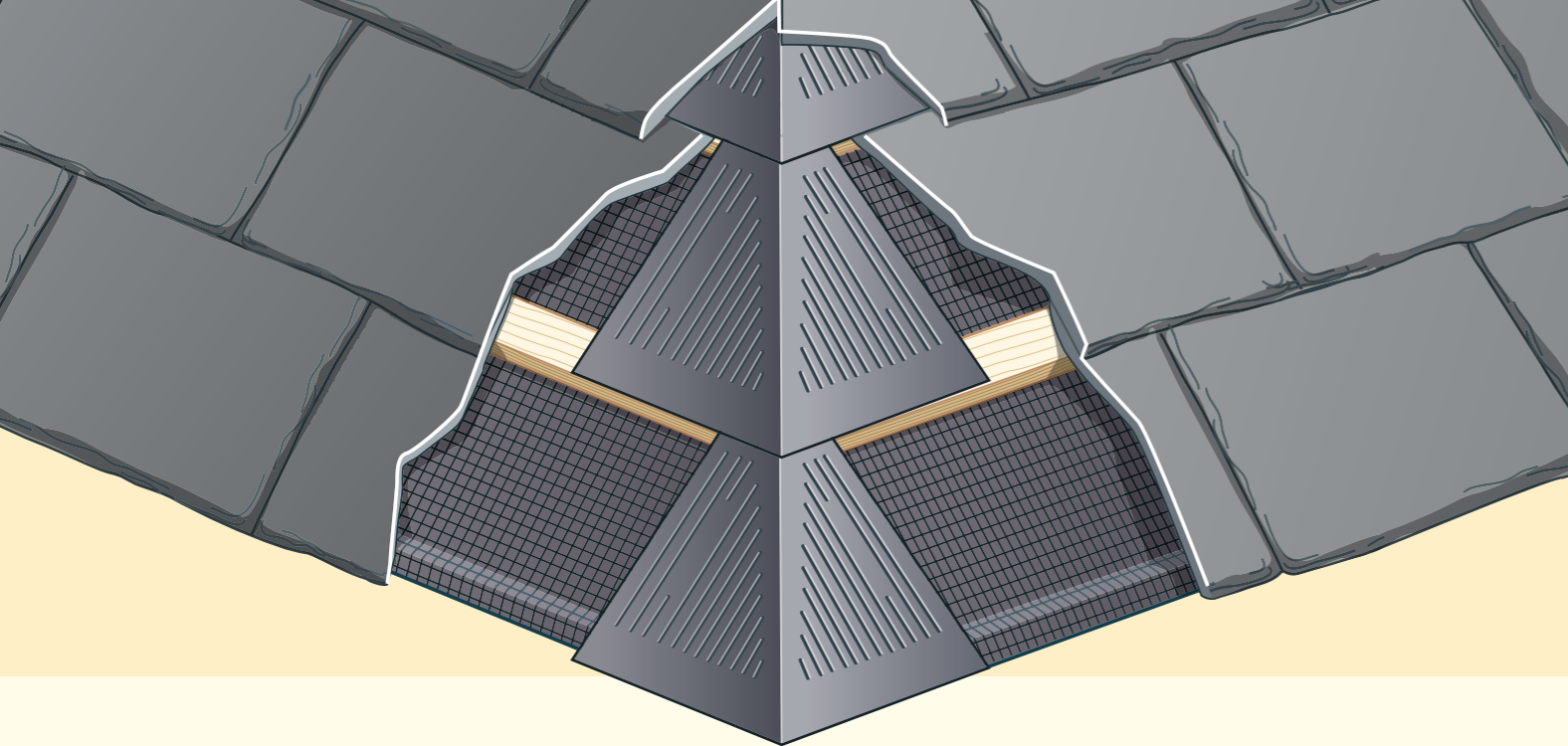- The Cambrian Mitred Hip System is suitable for traditional timber rafter, timber trussed rafter and rigid sarking constructions.
- Suitable for hips with an equal pitch on both slopes.
- Care must be taken when using timber sarking that the hip rafter is raised using timber batten(s) to ensure that the wood screw penetrates the hip batten by a minimum of 15mm.
- Cambrian Double Slates will be required on all courses on either side of each hip below 45° pitch. At pitches of 45° and above, Cambrian Slate-and-a-Halves can be used. At pitches of 45° and below use a double slate for the top course at the ridge/hip junction.
- At the junction between two mitred hips and a universal angle duo ridge, a Cambrian Mitred Hip Block-End Ridge (product code 7211) should be used.
- Where a hip starts or finishes at a position other than a duo ridge or eaves, a lead or Wakaflex Rapid Flashing saddle will be required.

COMPONENTS

The Cambrian Mitred Hip System contains sufficient components in each pack for ten courses of slates.

Each pack contains:

- Hip Weathering Units (Polypropylene – grey) × 10
- Tail Clips and Screws (Stainless Steel) × 10

24 HIP SYSTEMS
CAMBRIAN MITRED HIP SYSTEM

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4

HIP SYSTEMS
CAMBRIAN MITRED HIP SYSTEM   25

125 AND CAMBRIAN GRP VALLEY

Designed as a cost-effective alternative to lead, the 125 and Cambrian GRP Valleys are easy to fix, durable and lightweight. They are ideal for most types of roof design which have a valley junction between two roof slopes.

3000 · 120 · 400
125 GRP Valley

3000 · 130 · 400
Cambrian GRP Valley

125 GRP VALLEY (FENLAND PANTILE)

Cement: sand mortar (to comply to tensile bond strength in BS 5534) bedding the continuous valley length onto GRP sanded strip

Fenland Pantile cut to rake of valley and mechanically fixed

125 GRP Valley nailed to 25mm thick SW valley battens

125mm width between vertical faces of valley

Spirtech 400 2S underlay turned up onto SW support batten

SW batten supported on edge of valley support board

250 × 19mm valley support board cut between trussed rafters and supported on 25mm thick noggins nailed to rafters. Top surface of support board must be flush with top of trussed rafters

Trussed rafters

CAMBRIAN GRP VALLEY (CAMBRIAN)

125mm width between vertical faces of valley

Cambrian Slate-and-a-half or Double Slate cut to rake of valley and mechanically fixed

SW batten supported on edge of valley support board

S/S Cambrian Verge Clip

Cambrian GRP Valley nailed to 25mm thick SW valley batten

Spirtech 400 2S underlay turned up face of batten

250 × 19mm valley support board cut between trussed rafters and supported on 25mm thick noggins nailed to rafters. Top surface of support board must be flush with top of trussed rafters.

Trussed rafters

GUIDANCE NOTES

- Lay the 125 or Cambrian GRP Valley on timber support boards, laid between rafters on noggins.
- At ridge/valley intersections, a lead or Wakaflex Rapid Flashing saddle is required.
- At the eaves, cut the GRP Valley to a 'V' to allow water to flow into gutters. The fascia board will require cutting to suit.
- Where the valley discharges onto tiling, a lead flashing or Wakaflex Rapid Flashing is required.
- Vapour permeable underlay can be laid either under the GRP Valley or up to the edge of the valley support batten.
- Cambrian Double Slates will be required on all courses on both sides of the valley below 25°. At pitches of 25° and above, Cambrian Slate-and-a-Halves can be used.

COMPONENTS

125 AND CAMBRIAN GRP VALLEY

Valley Size	3m × 0.4m
Material	Glass Reinforced Polyester (GRP)

FEATURES

- Easily cut and available in 3 metre lengths
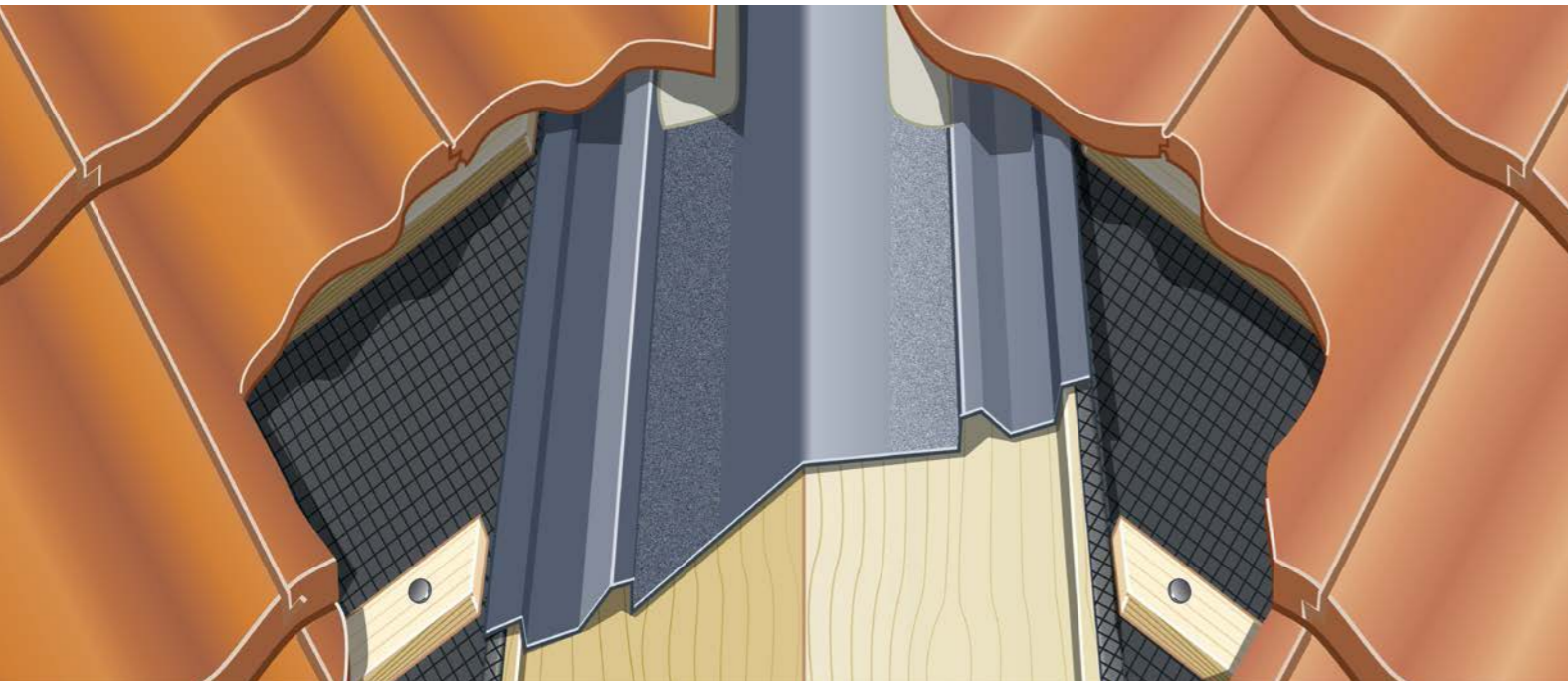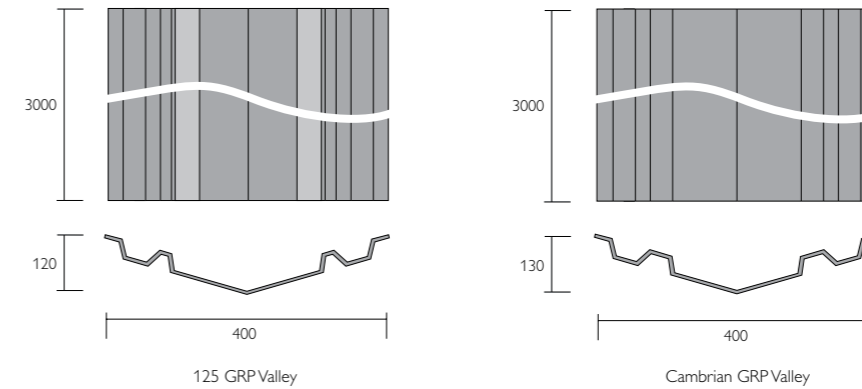- Tried and tested and complies with BS 5534:2014 requirements for valleys
- Fire tested to BS 476-3:2004
- Manufactured from long-lasting UV-resistant Glass Reinforced Polyester (GRP)

COMPATIBILITY

- 125 Valley is suitable for all of the Redland range of tiles and slates (except Cambrian Slates for which the Cambrian GRP Valley is used)
- A specific version of this valley is available for natural slate

PERFORMANCE

- Minimum pitch 17.5° at 90° plan angle
- Maximum pitch 45° at 90° plan angle
- For pitch range at plan angles other than 90° please contact Technical Solutions Hotline on 03708 702595
- Width of valley gutter 125mm
- Where roof plan area discharging into the valley is greater than 25m^2, minimum rafter pitch is 30°
- Valley can accommodate a 5° pitch variance between slopes

Dry Valley – Low Profile

Dry Valley – High Profile

DRY VALLEY

Dry Valley is a mortar-free, dry fix system that is fast to install in all weather conditions providing a neat, close cut and mitred finish.

FEATURES

• Two products:

Dry Valley High Profile – with a central upstand of 105mm

Dry Valley Low Profile – with a central upstand of 80mm

• Available in standard lead grey colour

• Lightweight and flexible

• Safe and easy to cut

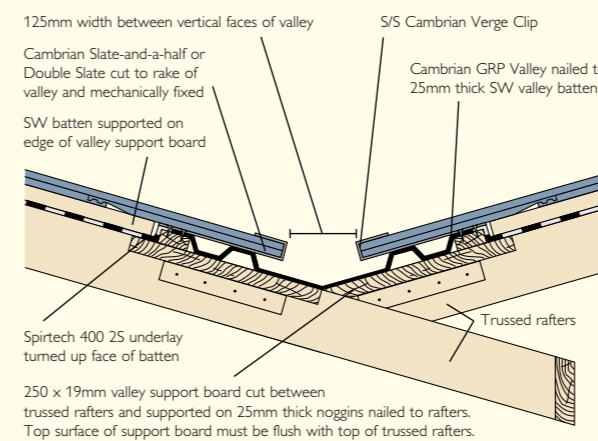• Manufactured from long-lasting UV-resistant Glass Reinforced Polyester (GRP)

COMPATIBILITY

• Designed to fit directly onto either existing or new valley support boards

• Dry Valley High Profile is compatible with Plain Tile, Heathland, Rosemary Clay plain tiles and all Redland profiled tiles

• Dry Valley Low Profile is compatible with natural slates, fibre-cement slates, all Redland slate appearance tiles, DuoPlain and Fontenelle Interlocking Clay Plain Tile

PERFORMANCE

• Pitch range is 17.5 - 60° at any plan angle with a maximum difference between the two adjacent roof slopes of 20°

• Roof area on plan draining into valley is maximum 100m²

• No sealing or jointing material is required if the following overlaps and rafter pitches are used:

  • Below 22.5°: 350mm
  • 22.5 - 29.5°: 300mm
  • 30 - 39.5°: 200mm
  • 40° and above: 150mm

DRY VALLEY (FENLAND PANTILE)

High Profile Dry Valley

Fenland Pantile cut to rake of valley and mechanically fixed

Spirtech 400 2S

SW batten supported on edge of valley support board

Trussed rafters

250 x 19mm valley support board cut between trussed rafters and supported on 25mm thick noggins nailed to rafters. Top surface of support board must be flush with top of trussed rafters
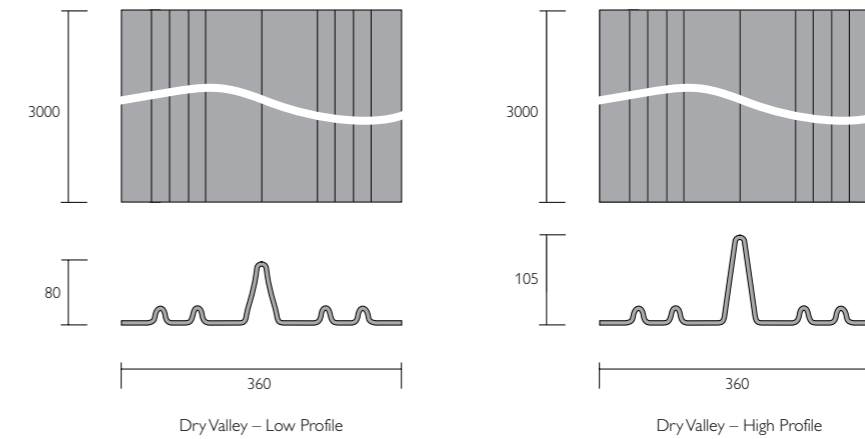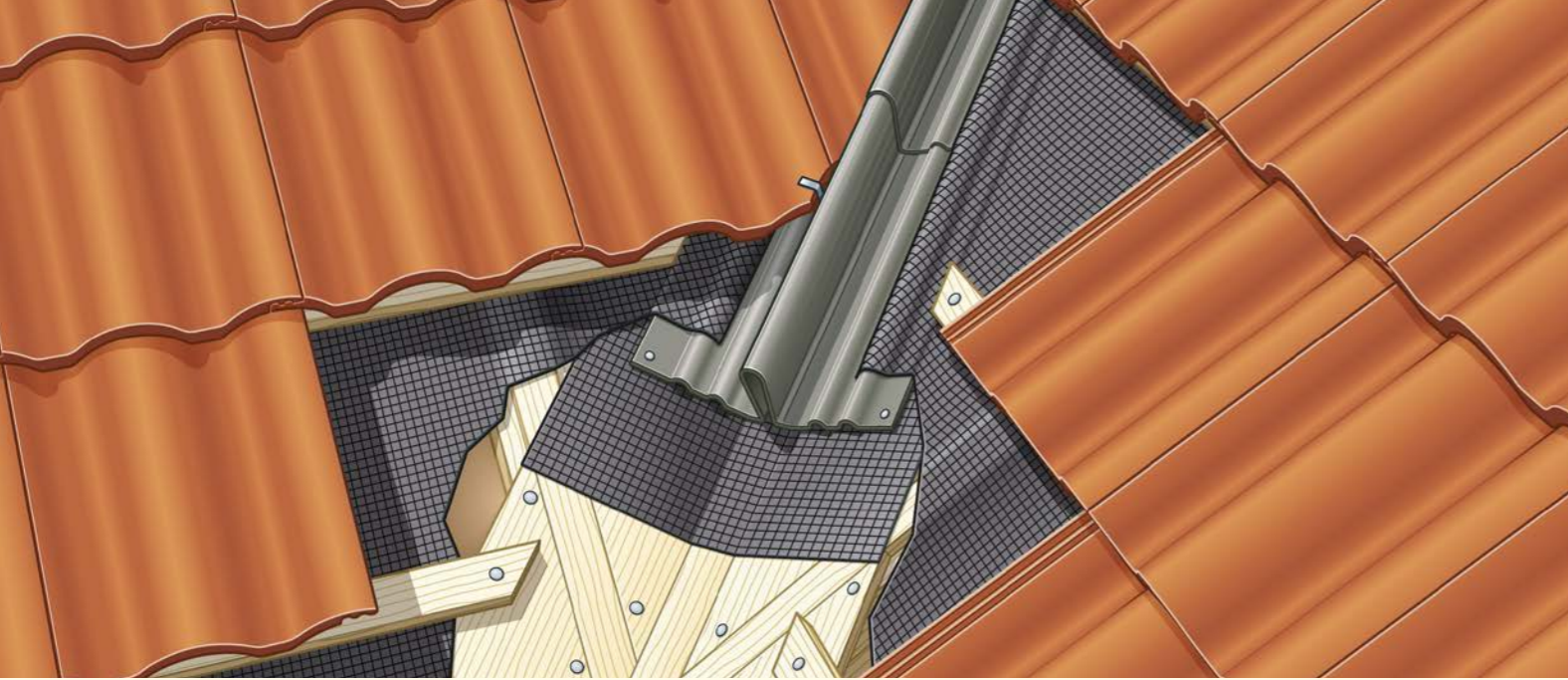
GUIDANCE NOTES

• Lay the Dry Valley on timber support boards, laid between rafters on noggins.

• At ridge/valley intersections, a lead or Wakaflex Rapid Flashing saddle is required.

• At the eaves, cut the Dry Valley to a 'V' to allow water to flow into gutters. The fascia board will require cutting to suit.

• Where the valley discharges onto tiling, a lead flashing or Wakaflex Rapid Flashing is required.

• Vapour permeable underlay can be laid either under the Dry Valley or up to the edge of the valley support batten.

• Cambrian Double Slates will be required on all courses on both sides of the valley below 25°. At pitches of 25° and above, Cambrian Slate-and-a-halves can be used.

• At the eaves, the end of Dry Valley central upstand is filled with Kompriband foam filler to prevent bird and insect ingress.

COMPONENTS

DRY VALLEY

Valley Size	3m x 0.36m
Material	Glass Reinforced Polyester (GRP)

BONDING GUTTER

Bonding Gutter is a mortar-free, dry fix system designed to weatherproof the junction between two adjacent roof coverings. It is quick and easy to install in all weather conditions and provides a neat finish.

3000

70

210

Bonding Gutter – Low Profile

3000

100

210

Bonding Gutter – High Profile
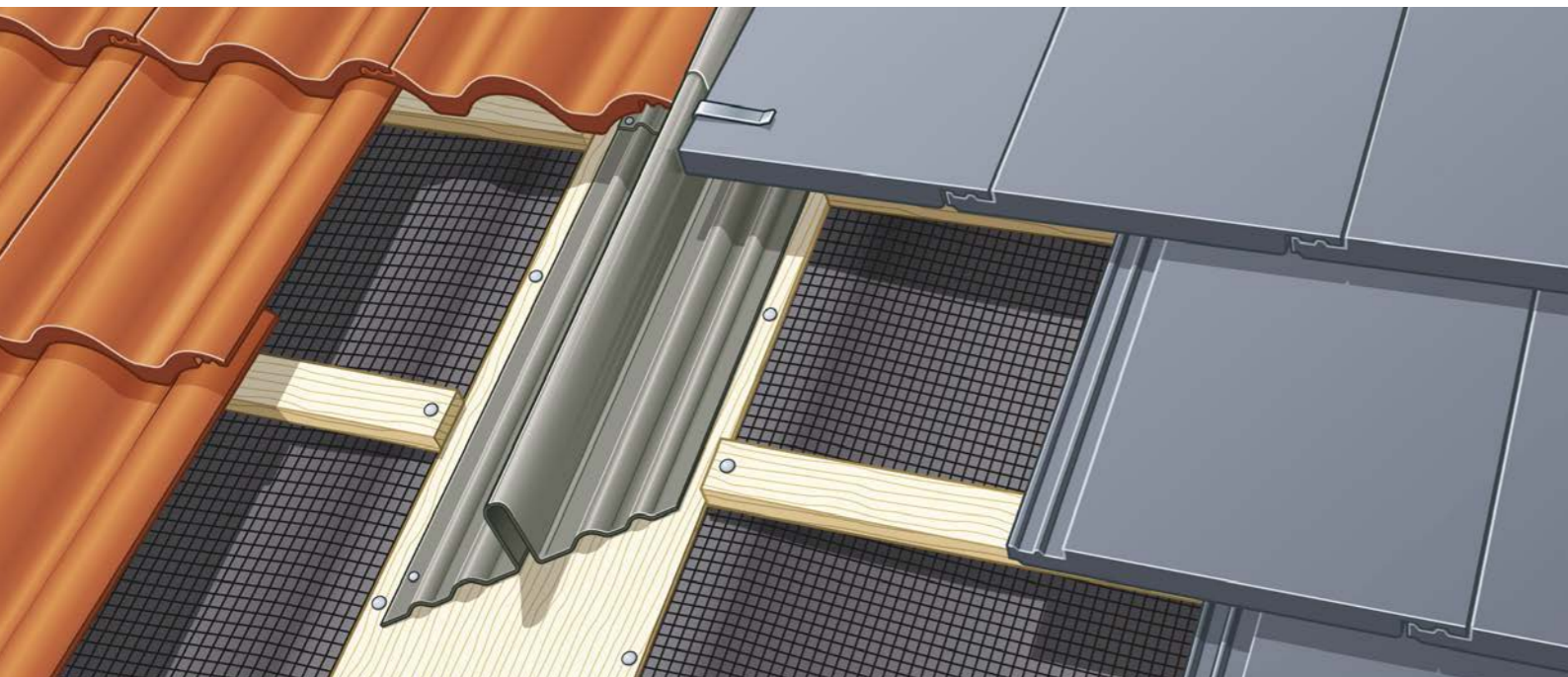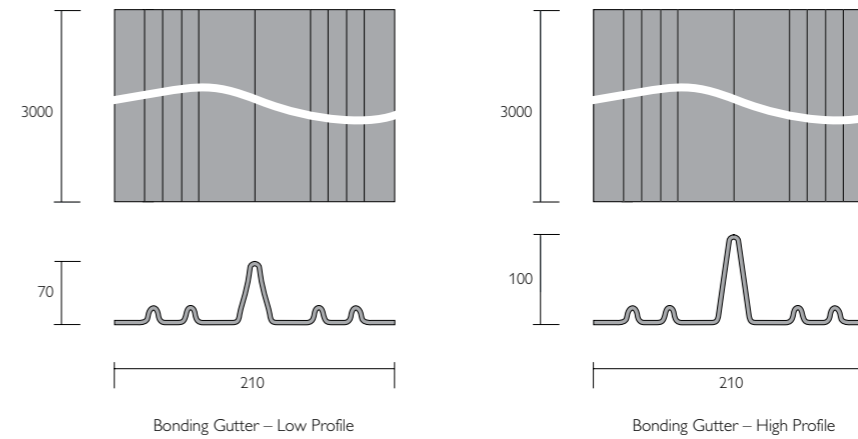
HIGH PROFILE BONDING GUTTER
(MINI STONEWOLD SLATE / GROVEBURY)

Flat tiles (nibs removed where necessary) and mechanically fixed

Firestop material packed between tiles and underlay

Mini Stonewold slate

High Profile Bonding Gutter

Party wall

Profile tiles (nibs removed where necessary) and mechanically fixed

Grovebury tile

Sealant

Rafter

Mortar bed

Batten

Spirtech 400 2S underlay folded back over WBP ply
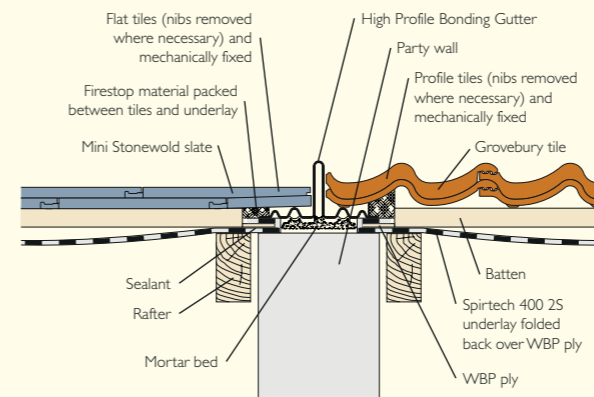
WBP ply

GUIDANCE NOTES

- Remove battens over the wall back to rafters either side.
- Lay the Bonding Gutter onto 6mm WBP ply over separating wall. If wall is a firebreak then bed Bonding Gutter onto mortar over wall.
- At ridge, a lead or Wakaflex Rapid Flashing Saddle is required.
- At the eaves, project Bonding Gutter 50mm over the fascia into the gutter and fill end of Bonding Gutter central upstand with Kompriband foam filler to prevent bird and insect ingress.

COMPONENTS

Gutter Size	3m × 0.21mm
Material	Glass Reinforced Polyester (GRP)

FEATURES

- Two products:

  Bonding Gutter High Profile – with a central upstand of 100mm

  Bonding Gutter Low Profile – with a central upstand of 70mm

- Available in standard lead grey colour
- Lightweight and flexible
- Safe and easy to cut
- Manufactured from long-lasting UV-resistant Glass Reinforced Polyester (GRP)
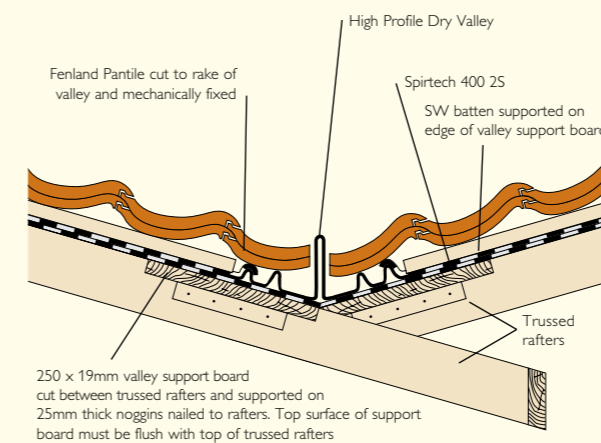
COMPATIBILITY

- If one of the roof slopes has high profiled tiles, the Bonding Gutter High Profile will be required
- Bonding Gutter High Profile is compatible with Plain Tile, Heathland, Rosemary Clay plain tiles and all Redland profiled tiles
- Bonding Gutter Low Profile is compatible with natural slates, fibre-cement slates, all Redland slate appearance tiles, DuoPlain and Fontenelle Interlocking Clay Plain Tile

PERFORMANCE

- No sealing or jointing material is required if the following overlaps and rafter pitches are used:

  - Below 22.5°: 350mm
  - 22.5 - 29.5°: 300mm
  - 30 - 39.5°: 200mm
  - 40° and above: 150mm

30 VALLEY SYSTEMS
BONDING GUTTER

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5

VALLEY SYSTEMS
BONDING GUTTER

31
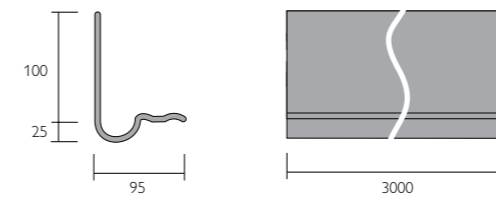
Side Abutment GRP Secret Gutter

SIDE ABUTMENT GRP SECRET GUTTER

The Side Abutment GRP Secret Gutter offers a secondary line of defence against wind-driven rain where a roof slope abuts a vertical wall. Being easy to cut and install makes this product an ideal solution for these otherwise complicated details.

FEATURES

• Lightweight, easy to handle 3 metre lengths

• Fire tested to BS 476-3:2004

COMPATIBILITY

• Suitable for all flat interlocking slates in the Redland range, DuoPlain and Fontenelle Interlocking Clay Plain Tile

• For Cambrian Slates use Standard Slates and Slate-and-a-Halves on alternate courses

• For all other slates use Left-hand Verge Slates with interlock removed and Left-hand Half Slates alternately on left-hand abutments. Use Standard Slates and Right-hand Half Slates alternately on right-hand abutments

• For DuoPlain use Standard Tiles with interlock removed and Left-hand 3/4 Tiles alternately on left-hand abutments. Use Standard Tiles and Right-hand 3/4 Tiles alternatively on right-hand abutments

• For Fontenelle Interlocking Clay Plain Tile use Left-hand Verge Tiles and Left-hand Verge Tile-and-a-Halves on left-hand abutments and standard tiles and Tile-and-a-Halves on right-hand abutments

• Gutter Overlap:

  • 150mm overlap for rafter pitch 30° and above
  • 200mm overlap for rafter pitch 22.5 - 29.5°
  • 250mm overlap for rafter pitch 17.5 - 22°
  • 300mm overlap for rafter pitch 15 - 17°

PERFORMANCE

• Minimum pitch 15°

• Maximum pitch 90°

SIDE ABUTMENT GRP SECRET GUTTER (SAXON 10 SLATE)

Cavity tray

Wakaflex Rapid Flashing step and cover flashing turned into brickwork under cavity tray by a min. 25mm. Dress over slate by not less than 150mm

65mm min.

Saxon 10 Slate. Must be mechanically fixed

50mm

Spirtech 400 2S underlay turned up wall by 50mm

Abutment GRP Secret Gutter

Trussed rafter

COMPONENTS

Gutter Size	3m x 0.95m
Material	Glass Reinforced Polyester (GRP)

32 ABUTMENT SYSTEMS
SIDE ABUTMENT GRP SECRET GUTTER

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6 ABUTMENT SYSTEMS
SIDE ABUTMENT GRP SECRET GUTTER 33

TOP EDGE ABUTMENT VENTILATION SYSTEM

The Top Edge Abutment Ventilation System provides a continuous, unobtrusive, ventilation path from the roof void to the outside. The innovative design enables the system and cover flashing to be installed far quicker than when traditional methods are used.

90 10 36 10 64 15
Lead Support Tray

50
13
5
Spacer Block

76 21 10 17 22 22 64 6
Rachet Clip

For Profile Filler Unit and dimensions refer
to page 38 DryVent Ridge System
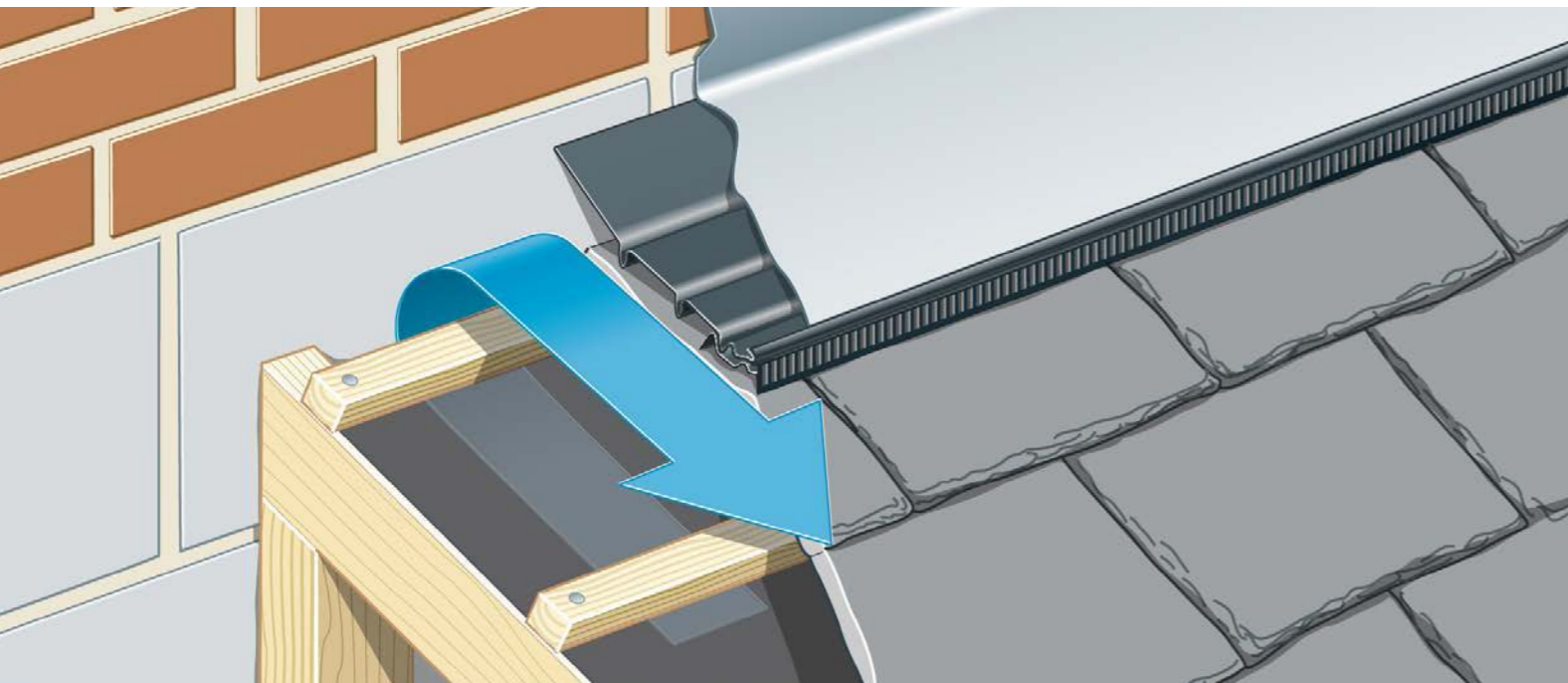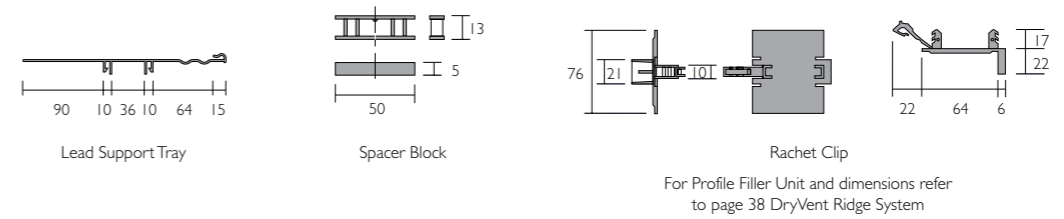
TOP EDGE ABUTMENT VENTILATION SYSTEM (CAMBRIAN)

Cavity tray
75mm min.
Ratchet Clip with Spacer Block
Lead Support tray
Wakaflex Rapid Flashing engaged into channel, dressed over tray and up wall by a min. 75mm, then turned into brickwork under cavity tray by a min. 25mm
Profile Filler Unit
Spirtech 400 2S
Cambrian Slate
Trussed rafter
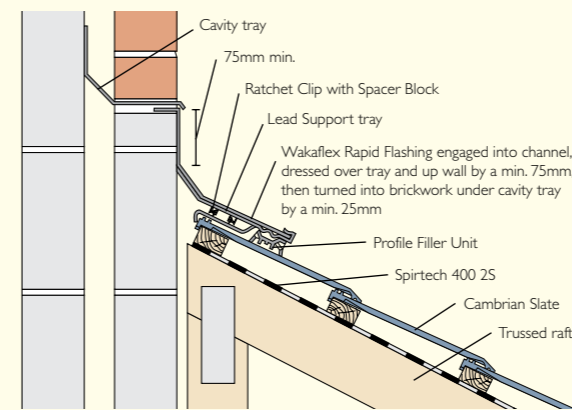
GUIDANCE NOTES

- Ensure that the air passage from the roof void is not obstructed.
- The Abutment Ventilation System is suitable for both traditional timber rafter construction, timber trussed rafter and rigid sarking constructions.
- The system is designed to fit a straight and level abutment wall.
- Full fixing instructions are included with each pack.
- The cover flashing can be either lead or Wakaflex Rapid Flashing; neither are supplied in the pack.
- If using Wakaflex Rapid Flashing in an exposed location please contact Technical Solutions Hotline on 03708 702595.
- If using lead, sidelaps should be a minimum of 150mm and a maximum sheet length of 1.5m.
- Mechanically fix all tiles on the top course.

COMPONENTS

Each Pack contains sufficient components for 3m of abutment:
- Profile Filler Units (uPVC – grey) (tile specific)
- Lead Support Trays (uPVC – grey)
- Rachet Clips and spacer blocks (uPVC – grey)

FEATURES

- Ventilates to comply with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof
- Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing
- Profile filler units bespoke to each tile type
- Ideal for lean-to-extensions

COMPATIBILITY

- Available for all tiles and slates in the Redland range except Cathedral Clay Pantile, Fenland Pantile, Redland 49, Postel Clay Tile and Old Hollow Pantile
- For natural slate contact Technical Solutions Hotline on 03708 702595
- Can be used in conjunction with either lead or Wakaflex Rapid Flashing

PERFORMANCE

- Minimum pitch will depend upon the minimum pitch of the roof tiles but must not be less than 15°
- Maximum pitch 60° (except Stonewold II 44°)
- The effective ventilation area per metre run of abutment is 5,000mm²

34 ABUTMENT SYSTEMS
TOP EDGE ABUTMENT VENTILATION SYSTEM

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6 ABUTMENT SYSTEMS 35
TOP EDGE ABUTMENT VENTILATION SYSTEM

140-560

5000-10,000

Wakaflex Rapid Flashing
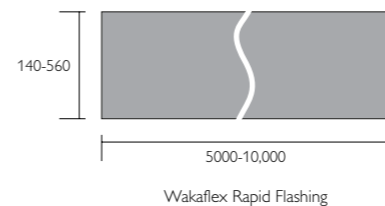
WAKAFLEX RAPID FLASHING

Wakaflex Rapid Flashing can be used instead of lead for the majority of pitched roof applications. The unrivalled speed and ease of installation enables standard flashing details to be completed twice as quickly as with lead, offering a viable and safer alternative to traditional methods.

FEATURES

- Appearance of lead, grey colour
- Lighter weight than lead and easy to use
- Can be moulded quickly and easily, without the need for special tools
- Manufactured from environmentally-friendly materials
- No welding required, thanks to the self-fusing properties of the material
- Insensitive to extremes of cold and heat (-40° to +100°C)
- No scrap value means Wakaflex Rapid Flashing is not at risk of theft
- 20-year product guarantee
- Low site wastage due to ease of cutting and simple fixing
- Non-toxic

COMPATIBILITY

- Compatible with all Redland tiles and slates
- Suitable for use with most pitched roofing materials

PERFORMANCE

- Awarded British Board of Agrément Certification, certificate number 09/4622

TRADITIONAL STEP AND COVER FLASHING – FLAT INTERLOCKING TILES

Cavity tray

85mm step flashing

65mm min.

Gap: Nominal 2mm to 15mm max.

Trussed rafter

Wakaflex Rapid Flashing 370mm (9957) (with top edge including butyl strip removed) step and cover flashing 25mm into brickwork (see detail), under cavity tray (where required or specified). Flashing to dress over slate by not less than 120mm, and be properly adhered to slate with built-in butyl strip. Wakaflex Rapid Flashing to be laid in accordance with Redland Fixing Instructions available at www.redland.co.uk.

Half Slate Pair (4263)
Slate (4261)
50 x 25mm SW batten

Underlay
Redland GRP Secret Gutter
38 x 38mm SW Nogging

CONTINUOUS FLASHING, CHASED – PROFILE TILES

65mm min.

20mm min.

50 Double Roman tile

50 x 25mm SW batten

Trussed rafter

Underlay

Wakaflex Rapid Flashing 280mm (9955/6) or 370mm (9957) (depending on how tiles are cut/positioned at abutment) (with top edge including butyl strip removed) cover flashing 25mm into brickwork (see detail), into a 25mm x 10mm chased raking slot. Flashing to dress over tiles by not less than 150mm and a complete pan and crown of the profile, and be properly adhered to tiles with built-in butyl strip. Wakaflex Rapid Flashing to be laid in accordance with Redland Fixing Instructions available at www.redland.co.uk.

GUIDANCE NOTES

- Must be installed on dry and clean tiles. If laid on damp surfaces ensure Wakaflex Rapid Flashing is first fixed to surface using Wakaflex Rapid Flashing M-Glue.
- Only a pair of scissors or a Stanley knife is required for cutting.
- A roller is recommended for joining pieces. Do not use a hammer to form, the force of your fingers is sufficient coupled with a roller.
- Overlap pieces by 30mm.
- Where Wakaflex Rapid Flashing is chased into walls or when Wakaflex Rapid Flashing strip is used, seal with Wakaflex Rapid Flashing Sealant.

COMPONENTS

Colourfast plastic with Aluminium rib mesh insert and butyl sealing edge.

Size	Weight	Rolls/Box
140mm x 5m	2.4kg	2
180mm x 5m	3.1kg	4
280mm x 5m	4.8kg	4
280mm x 10m	9.6kg	2
370mm x 5m	6.3kg	3
560mm x 5m	9.6kg	2

ACCESSORIES

- Additional Butyl Strip (20mm x 2m)
- Wakaflex Rapid Flashing Roller
- Wakaflex Rapid Flashing Strip (2m)
- Wakaflex Rapid Flashing Sealant (310ml)
- Wakaflex Rapid Flashing M-Glue (290ml)

36 ABUTMENT SYSTEMS
WAKAFLEX RAPID FLASHING

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6

ABUTMENT SYSTEMS
WAKAFLEX RAPID FLASHING **37**

DRYVENT RIDGE SYSTEM

The DryVent Ridge System provides a continuous weathertight ventilation path from the roof void to the outside. The system can also be easily converted when no high-level ventilation is required at the ridge. Both solutions provide an exceptionally durable method of securing ridge tiles. They are maintenance-free and require no mortar, delivering high resistance to storm damage.

259 | 450 | 106
Universal Angle Ridge Tile (sold separately)

256 | 450 | 98
Half Round Ridge Tile (sold separately)

38 | 25
Batten Strap

246 | 58 | 10
Ridge-to-Ridge Seal (Half Round concrete shown)

50 | 25
Clamping Plate

51 | 24 | K | J | 21
Profile Filler Unit (Grovebury shown)

Product Measurements (mm)

Profile Filler Unit	J	K
Plain Tile appearance/Slate	21	450
Landmark Double Pantile	59	298
Landmark Double Roman	47	298
Regent	59	298
Grovebury	59	298
50 Double Roman	47	298
Renown	40	298

FEATURES

- Profile Filler Units bespoke to each tile type
- Provides a neat and attractive finish to the ridge line
- Easy to install and can be used even when bad weather is expected
- Ventilates and complies with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof
- Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing

COMPATIBILITY

- Available for all tiles and slates in the Redland range except Cathedral Clay Pantile, Landmark Single Pantile, Fenland Pantile, Redland 49, Postel Clay Tile and Old Hollow Pantile
- Suitable for use with concrete Half Round and Universal Angle Ridge Tiles and Rosemary Clay Half Round Ridge Tiles (300mm). For Ridge Tile colour availability, see Fittings Colour Range Tables on pages 69, 73 and 78
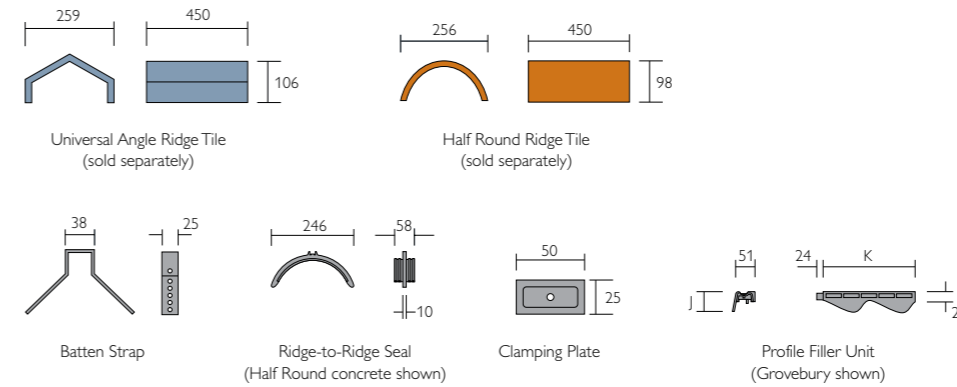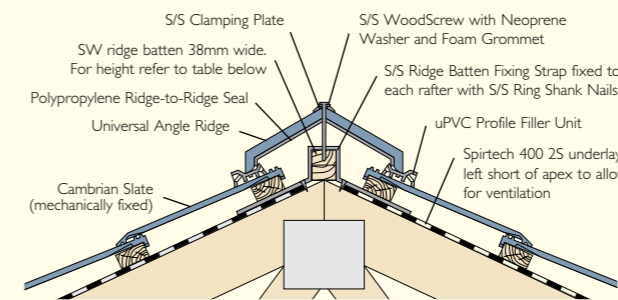
PERFORMANCE

- For minimum and maximum pitches, refer to the table on the next page
- Must not be used in a pitch below 15°

DRYVENT RIDGE SYSTEM (CAMBRIAN)

S/S Clamping Plate
SW ridge batten 38mm wide. For height refer to table below
Polypropylene Ridge-to-Ridge Seal
Universal Angle Ridge
Cambrian Slate (mechanically fixed)
S/S WoodScrew with Neoprene Washer and Foam Grommet
S/S Ridge Batten Fixing Strap fixed to each rafter with S/S Ring Shank Nails
uPVC Profile Filler Unit
Spirtech 400 2S underlay left short of apex to allow for ventilation

PITCH RANGE AND RIDGE BATTEN HEIGHT FOR DRY & DRYVENT RIDGE SYSTEM (38MM WIDE RIDGE BATTEN)

| Roof Pitch (degrees)	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	40	42.5	45	47.5	50	52.5	55	57.5	60
Half Round																			
Landmark Double Pantile	100	100	75	75	75	75	75	75	50	50	50	50	50	50	50	50	-	-	-
Grovebury	100	100	75	75	75	50	50	50	50	50	25	25	25	25	25	-	-	-	-
Landmark Double Roman	-	75	75	75	75	75	50	50	50	50	50	25	25	25	25	25	-	-	-
50 Double Roman	-	75	75	75	75	50	50	50	50	50	25	25	25	25	25	-	-	-	-
Regent	100	100	100	75	75	75	75	75	75	50	50	50	50	50	50	20	-	-	-
Renown	-	75	75	50	50	50	50	50	25	25	25	25	25	25	25	-	-	-	-
DuoPlain	-	-	-	-	-	50	50	50	25	25	25	25	25	25	25	25	25	25	25
Fontenelle	75	75	75	75	50	50	50	50	50	25	25	25	25	25	25	25	25	25	25
Plain Tile	-	-	-	-	-	-	-	-	50	25	25	25	25	25	25	25	25	25	25
Heathland	-	-	-	-	-	-	-	-	50	25	25	25	25	25	25	25	25	25	25
Universal Angle																			
Natural Slate#	-	-	-	-	25	25	25	25	25	25	25	25	25	-	-	-	-	-	-
Cambrian Slate	50	50	50	50	50	25	25	25	25	25	25	25	25	25	-	-	-	-	-
Slate 10 Range	-	75	50	50	50	50	25	50	25	25	25	25	25	25	-	-	-	-	-
Stonewold II	-	75	75	50	50	50	50	50	25	25	25	25	25*	-	-	-	-	-	-
Mini Stonewold	-	75	75	75	50	50	50	50	25	25	25	25	25	25	25	25	-	-	-
Rosemary Half Round																			
Natural Slate#	-	-	-	-	75	50	50	50	50	50	50	25	25	25	25	25	25	-	-
Cambrian Slate	75	75	75	75	75	75	50	50	50	50	25	25	25	25	25	25	25	25	-
Slate10 Range	-	100	75	75	75	75	75	50	50	50	50	25	25	25	25	25	25	25	25
Fontenelle	100	100	100	100	100	75	75	75	75	75	75	50	50	50	50	25	25	25	25
Rosemary Clay Plain Tile	-	-	-	-	-	-	-	-	75	75	75	50	50	50	50	50	25	25	25

*44° maximum pitch.

500 x 250mm Standard Pre-holed at 190mm from head. Pitch range depends upon exposure level. Note: For Top Batten Distance from Apex please refer to the relevant product Fitting Instructions. For pitches outside the above range please contact Technical Solutions Hotline on 03708 702595. Pitches between those shown use the taller ridge batten height figure.

GUIDANCE NOTES

- DryVent Ridge is suitable for traditional timber rafter, timber trussed rafter and rigid sarking constructions. The system is designed to fit a straight and level ridge line.
- When used with traditional timber rafters, the height of the ridge board above the apex of the rafters will alter the number of 38 × 25mm tile battens required to construct the ridge tree. This ensures that the ridge tile securing screw achieves a minimum 15mm of penetration.
- Where timber sarking is used with DryVent Ridge, sarking and underlay are left short of apex to allow 10mm air gap. Counterbattens are extended to form an apex to support the ridge tree batten.
- Special DryVent Ridge packs (9085) are required when using Ornamental Universal Angle Ridge Tiles.
- Where Gas Flue Ridge Terminals are used with DryVent Ridge refer to guidance notes on page 47.
- If this system is to be used with natural/fibre cement slates or unequal pitches, please contact our Technical Solutions Hotline on 03708 702595.
- Counterbattens/rafters on adjacent roof slopes must be aligned.
- When no high level ventilation is desired, the underlay is taken over the apex of the ridge.
- Finish ridge ends with mortar, Block-End Ridge tile or Ridge End Caps.
- Mechanically fix all tiles in the top course.
- Rosemary Eave/Top Tile does not hang on the final plain tile course as for concrete plain tiles. Instead the Eave/Top Tile must be twice nailed to an additional batten that is turned on its side. Top and second top batten positions from apex are 35mm and 75mm respectively.
- A 38mm wide timber ridge batten must be fixed, the height of which will depend upon the profile of the tiles and the pitch of the roof (see table).

COMPONENTS

Each pack contains sufficient components to secure a 2.7 metre ridge line (1.8 metres for Rosemary tiles):

- Profile Filler Units (uPVC – grey): tile specific.
- 6 Ridge-to-Ridge Seals (either Universal Angle or Half Round) (Polypropylene – black) with Stainless Steel woodscrews and clamp plates.
- 6 Stainless Steel ridge batten straps with 12 Stainless Steel ring shank nails.
- In addition, Block-End Ridge Tiles or Ridge End Caps will be required for all ridge situations.
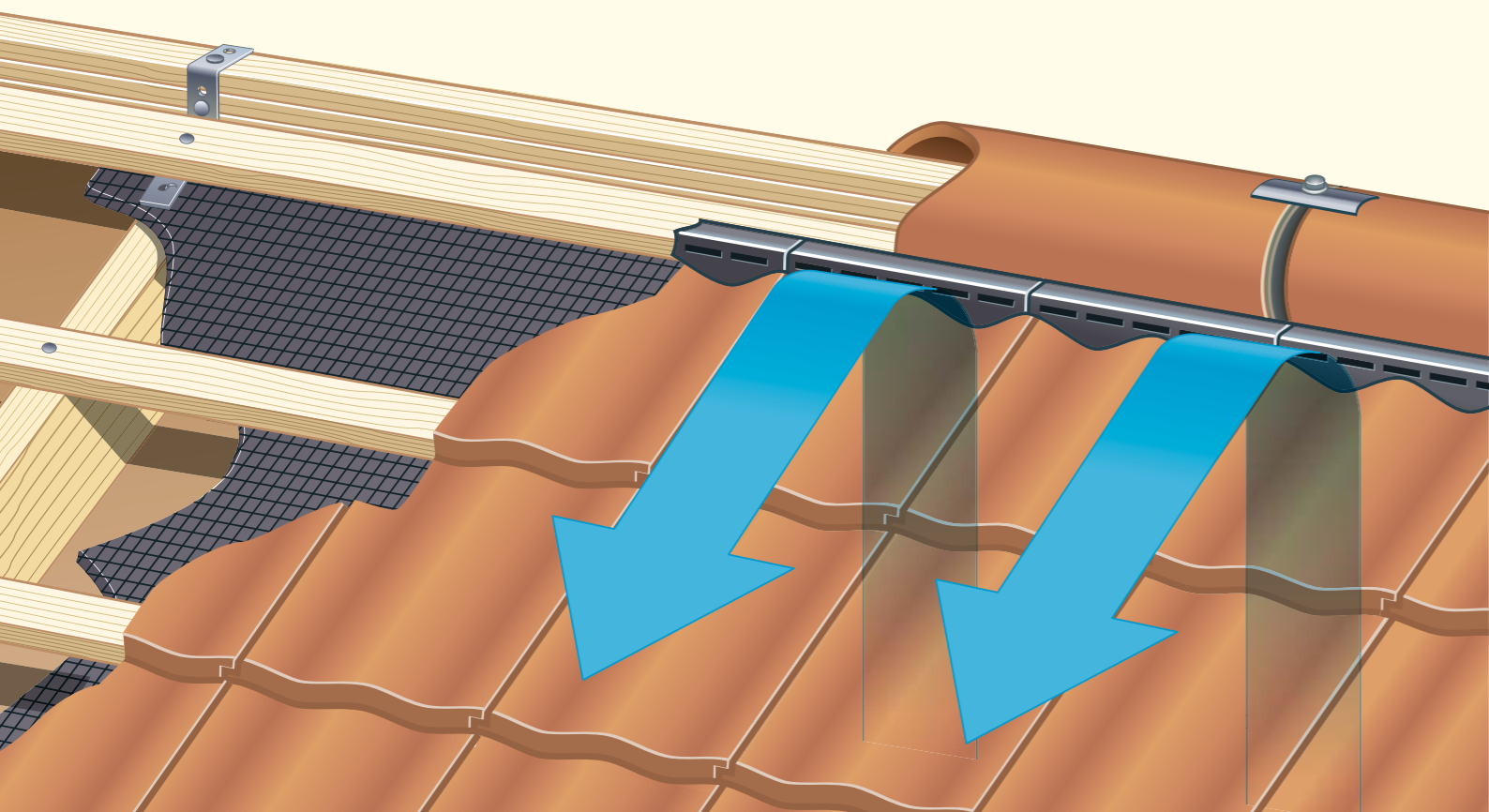
RAPID VENTED RIDGE SYSTEM

The Rapid Vented Ridge System provides both high-level ventilation and mechanically fixed ridge tiles. The system is a genuine alternative to a mortar-bedded ridge with the added advantage of being quicker and requiring less skill to install.

Universal Angle Ridge Tile (sold separately)

Half Round Ridge Seal

Universal Angle Ridge Seal

Half Round Ridge Tile (sold separately)

Batten Strap

Clamping Plate

Rollable Weathertight Membrane

RAPID VENTED RIDGE SYSTEM (MINI STONEWOLD)

S/S Clamping Plate
S/S Ridge Batten Fixing Strap nailed to each rafter with S/S Ring Shank Nails
Polypropylene Ridge-to-Ridge Seal
Universal Angle Ridge
Mini Stonewold slate Must be mechanically fixed

S/S Woodscrew with Neoprene Washer and Foam Grommet
SW ridge battens 38mm wide
Spirtech 400 2S underlay left short of apex to allow ventilation
Rollable weathertight membrane

FEATURES

- Uses ridge-to-ridge seals that match the profile of the Redland ridge tiles perfectly to give a guaranteed weathertight seal
- Traditional appearance
- Up to 33% quicker to fit than a mortar-bedded ridge
- Easy to install and can be laid even when bad weather is expected
- Rapid Vented Ridge Systems ventilate and comply with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof void
- Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing

COMPATIBILITY

- Compatible with natural slate, concrete slates, profile tiles and plain tiles
- Not compatible with Old Hollow Clay Pantile or Fontenelle Interlocking Clay Plain Tile
- For Ridge Tile colour availability, see Fittings Colour Range Tables on pages 69, 73 and 78
- For Rosemary clay tiles please contact Technical Solutions Hotline on 03708 702595
- Not compatible with Ridge Vent Terminals, Gas Flue Terminals, Clay Half Round Ridge or Ornamental Ridge

PERFORMANCE

- For minimum and maximum pitches, refer to the table on the next page

PITCH RANGE AND RIDGE BATTEN HEIGHT FOR RAPID VENTED RIDGE SYSTEM (38MM WIDE RIDGE BATTEN)

Roof Pitch (degrees)	12.5	15	17.5	20	22.5	25	27.5	30	32.5	35	37.5	40	42.5	45	47.5	50	52.5	55	57.5
Half Round																			
Landmark Double Pantile	-	75	75	75	75	75	75	75	75	50	50	50	50	50	50	50	50	50	-
Grovebury	-	75	75	75	75	75	75	75	75	50	50	50	50	50	50	50	50	50	-
Landmark Double Roman	-	-	75	75	75	50	50	50	50	50	50	50	50	50	50	25	25	-	-
50 Double Roman	-	-	75	75	50	50	50	50	50	50	50	50	50	50	25	25	-	-	-
Regent	100	75	75	75	75	75	75	75	75	75	75	50	50	50	50	-	-	-	-
Renown	-	-	75	50	50	50	50	50	50	50	50	50	25	25	25	25	25	-	-
Landmark Single Pantile	-	-	75	75	75	75	75	75	75	75	75	75	50	50	50	-	-	-	-
Fenland Pantile	-	-	75	75	75	75	75	75	75	75	75	75	50	50	50	-	-	-	-
Redland 49	-	-	50	50	50	50	50	50	50	50	50	25	25	25	25	25	-	-	-
Cathedral Clay Pantile	-	-	-	-	75	75	75	75	75	75	75	50	20	50	50	50	-	-	-
Postel Clay Tile	-	-	-	75	50	50	50	50	50	50	50	50	50	50	50	25	25	25	-
Plain Tile	-	-	-	-	-	-	-	-	25	25	25	25	25	25	25	25	25	25	25
Heathland	-	-	-	-	-	-	-	-	25	25	25	25	25	25	25	25	25	25	25
DuoPlain	-	-	-	-	-	50	50	50	50	50	50	25	25	25	25	25	25	25	-
Universal Angle																			
Cambrian Slate	-	50	50	50	50	50	25	25	25	25	25	25	25	-	-	-	-	-	-
Slate 10 Range	-	-	-	-	50	50	50	50	50	50	50	25	25	25	25	25	-	-	-
Stonewold II	-	-	75	75	50	50	50	50	50	50	25	25	25	25*	-	-	-	-	-
Mini Stonewold	-	-	50	50	50	50	50	50	25	25	25	25	25	25	25	25	-	-	-
Natural Slate#	-	-	-	-	-	50	50	25	25	25	25	25	25	-	-	-	-	-	-

* 44° Maximum Pitch. Pitches between those shown use smaller Ridge Batten Height – For Top Batten distance from Apex please refer to the relevant product Fitting Instructions.

500 x 250mm Standard Pre-Holed at 195mm from head. Pitch range depends upon exposure level. For pitches outside above range please contact Technical Solutions Hotline on 03708 702595

GUIDANCE NOTES

- The Rapid Vented Ridge System is suitable for traditional timber rafter, timber trussed rafter and rigid sarking constructions. The systems are designed to fit a straight and level ridge line.
- When used with traditional timber rafters, the height of the ridge board above the apex of the rafters will alter the number of 38 x 25mm tile battens required to construct the ridge tree. This ensures that the ridge tile securing screw achieves a minimum 15mm penetration.
- Where timber sarking is used sarking and underlay are left short of apex to allow 10mm air gap. Counterbattens are extended to form an apex to support the ridge tree batten.
- Counterbattens/rafters on adjacent roof slopes must be aligned and extended to form an apex.
- Finish ridge ends with mortar, Block-End Ridge Tiles or Ridge End Caps.
- For use with unequal pitches please contact Technical Solutions Hotline on 03708 702595.
- For use with natural slate please contact Technical Solutions Hotline on 03708 702595.
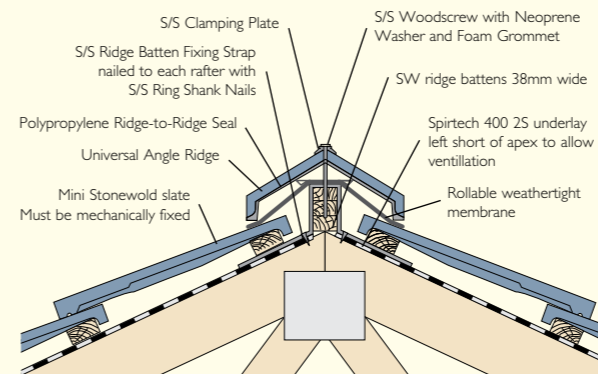- Mechanically fix all tiles on the top course.

COMPONENTS

Each pack contains sufficient components to secure a 5 metre ridge line:
- 5 metres of Rollable Weathertight Membrane.
- 11 ridge-to-ridge seals (either Universal Angle or Half Round) (Polypropylene – black) with Stainless Steel woodscrews and clamp plates.
- 9 Stainless Steel ridge batten straps with 18 Stainless Steel ring shank nails.
- 2 Stainless Steel end ridge fixings.

ACCESSORIES

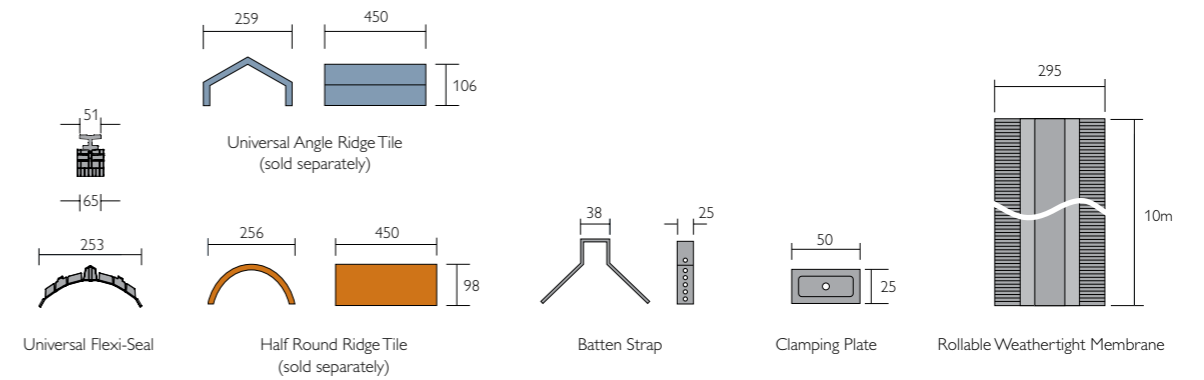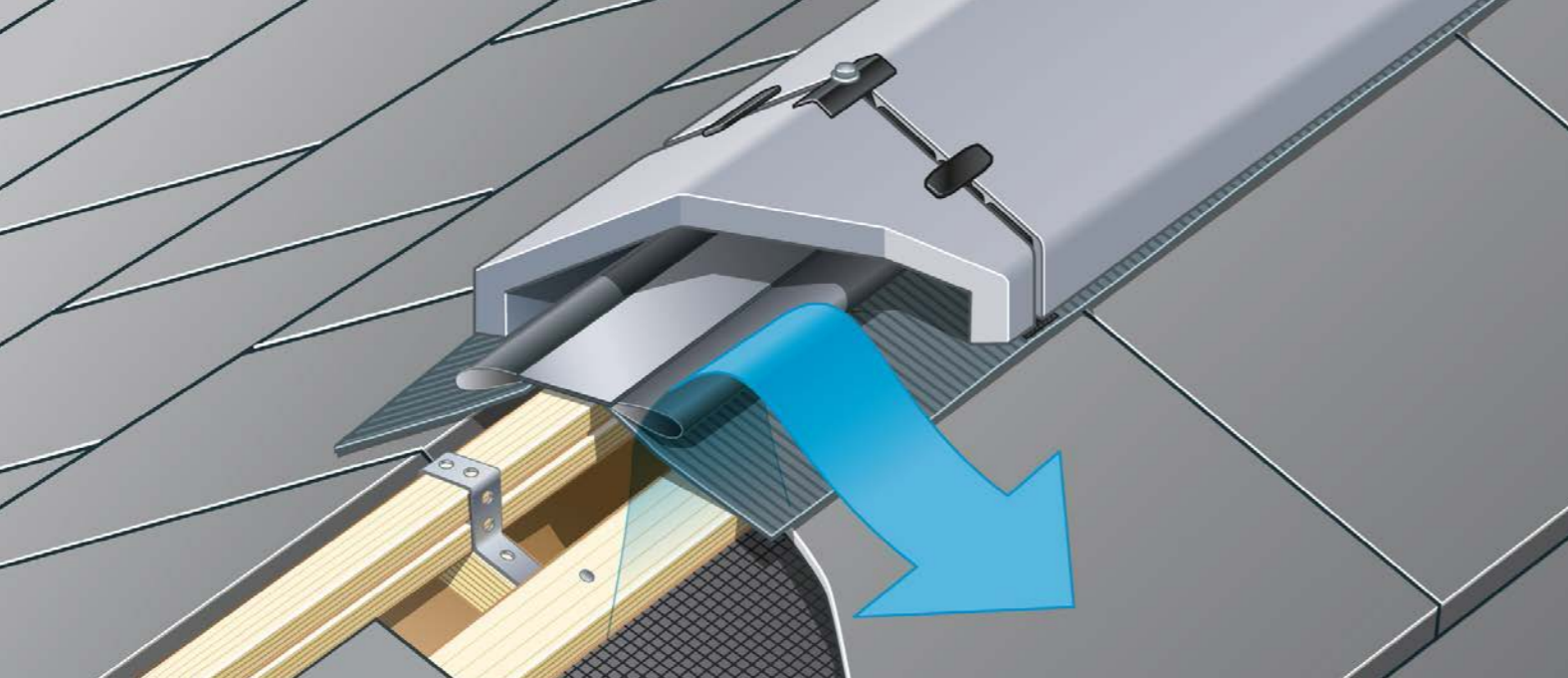- In addition, Block-End Ridge Tiles or Ridge End Caps will be required for all ridge situations.

40 RIDGE SYSTEMS
RAPID VENTED RIDGE SYSTEM

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7 RIDGE SYSTEMS
RAPID VENTED RIDGE SYSTEM 41

Component diagrams (top right)

- 259 / 450 / 106 — Universal Angle Ridge Tile (sold separately)
- 51 / 65 — 253 — Universal Flexi-Seal
- 256 / 450 / 98 — Half Round Ridge Tile (sold separately)
- 38 / 25 — Batten Strap
- 50 / 25 — Clamping Plate
- 295 / 10m — Rollable Weathertight Membrane

UNI-VENT RAPID RIDGE/HIP

Uni-Vent Rapid Ridge/Hip is a simple and quick to install system providing a secure, weatherproof and mortar-free universal solution for the mechanical fixing of ridge and hip tiles.
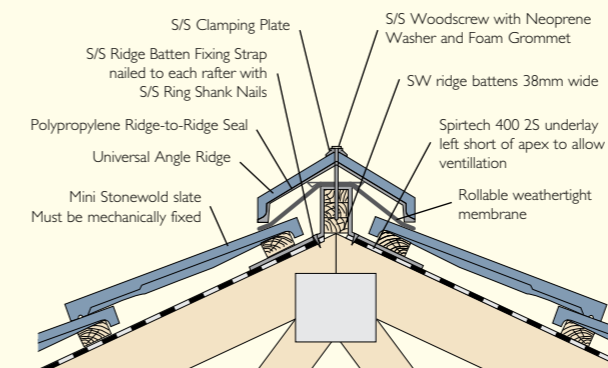
FEATURES

- Uses a flexible ridge-to-ridge seal to enable use with both Half Round and Universal Angle concrete ridge tiles and similar ridge profiles
- Traditional appearance
- Up to 33% quicker to fit than a mortar bedded ridge
- Easy to install and can be laid even when bad weather is expected
- Uni-Vent Rapid Ridge/Hips ventilate and comply with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof void
- Complies with BS 5534:2014 requirements for mechanical fixing

COMPATIBILITY

- Compatible with natural slate, concrete slates, profile tiles and plain tiles
- Not compatible with Old Hollow Clay Pantile, Cathedral Clay Pantile or Fontenelle Interlocking Clay Plain Tile
- For Ridge Tile colour availability, see Fittings Colour Range Tables on pages 69, 73 and 78
- For Rosemary clay tiles please contact Technical Solutions Hotline on 03708 702595
- Not compatible with Ridge Vent Terminals, Gas Flue Terminals, Clay Half Round Ridge or Ornamental Ridge

UNI-VENT RAPID RIDGE/HIP (MINI STONEWOLD)

- S/S Clamping Plate
- S/S Woodscrew with Neoprene Washer and Foam Grommet
- S/S Ridge Batten Fixing Strap nailed to each rafter with S/S Ring Shank Nails
- SW ridge battens 38mm wide
- Polypropylene Ridge-to-Ridge Seal
- Spirtech 400 2S underlay left short of apex to allow ventilation
- Universal Angle Ridge
- Mini Stonewold slate Must be mechanically fixed
- Rollable weathertight membrane

GUIDANCE NOTES

- The Uni-Vent Rapid Ridge/Hip is suitable for traditional timber rafter, timber trussed rafter and rigid sarking constructions. The systems are designed to fit a straight and level ridge line.
- When used with traditional timber rafters, the height of the ridge board above the apex of the rafters will alter the number of 38 x 25mm tile battens required to construct the ridge tree. This ensures that the ridge tile securing screw achieves a minimum 15mm penetration.
- Where timber sarking is used sarking and underlay are left short of apex to allow 10mm air gap. Counterbattens are extended to form an apex to support the ridge tree batten.
- Counterbattens/rafters on adjacent roof slopes must be aligned and extended to form an apex.
- Finish ridge ends with mortar, Block-End Ridge Tiles or Ridge End Caps.
- For use with unequal pitches please contact Technical Solutions Hotline on 03708 702595.
- For use with Natural Slate please contact Technical Solutions Hotline on 03708 702595.
- Mechanically fix all tiles on the top course.

COMPONENTS

Each pack contains sufficient components to secure a 10 metre ridge line:
- 10 metres of Rollable Weathertight Membrane.
- 22 ridge-to-ridge Universal Flexi-Seals with Stainless Steel woodscrews and angle clamp plates.
- 17 Stainless Steel ridge batten straps with 34 Stainless Steel ring shank nails.

ACCESSORIES

- In addition, Block-End Ridge Tiles or Ridge End Caps will be required for all ridge situations.

For use on hips, the following accessories are also available:
- Support Tray (1.2m)
- Kro-Clips

RIDGE VENT TERMINAL

The Ridge Vent Terminal can be used for soil pipe, roof space ventilation or mechanical extraction. It can be incorporated into a DryVent Ridge or a mortar bedded ridge.

Ridge Vent Terminal
(Half Round shown)

365
228
268
100
V
W
X
U
H
38

274
200
110

Terminal Adaptor
(sold separately)

660
118

Flexible Pipe
(sold separately)
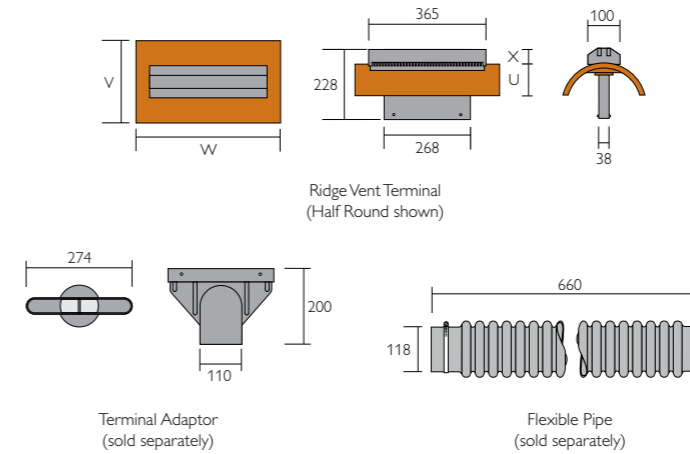
Product Measurements (mm)

Ridge Tile	U	V	W	X
Half Round	98	256	450	52
Universal Angle	106	255	450	34
Rosemary Half Round	128	256	450	52

FEATURES

- Ventilates to comply with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof
- Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing
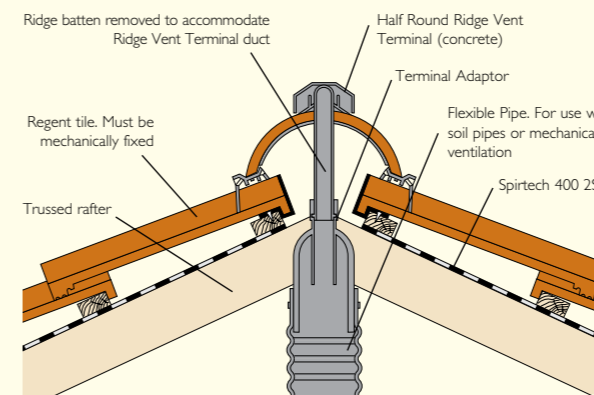- Complies with BS EN 12056-2:2000 Gravity Drainage Systems Inside Buildings

COMPATIBILITY

- Available in concrete Half Round and Universal Angle Ridge Tiles and Rosemary clay Half Round Ridge Tiles
- Not suitable for use with Uni-Vent Rapid Ridge/Hip, Rapid Vented Ridge or on hip details
- Cannot be used as a gas flue
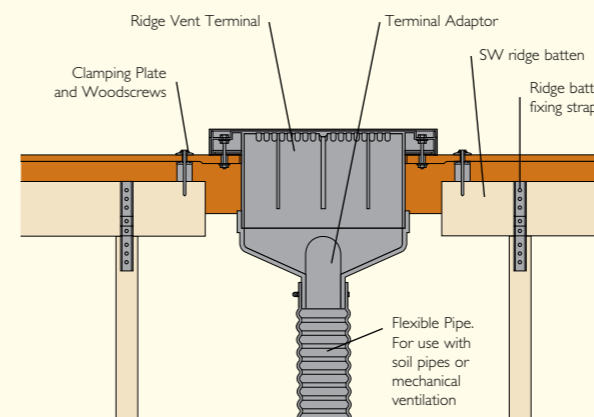- For available colours, see Fittings Colour Range Tables on pages 69, 73 and 78

PERFORMANCE

- Minimum and maximum pitch will depend on the tile profile and whether ridge tiles are dry fixed or mortar bedded
- The effective ventilation area for each terminal is 8,400mm^2
- To achieve roof space ventilation of 5,000mm^2/m run, they should be spaced at 1.68m centres
- The pressure/air flow resistance characteristics of the terminal are as follows:
  - At 15 litres/sec – 6.5 Pa
  - At 30 litres/sec – 26 Pa
  - At 60 litres/sec – 104 Pa

HALF ROUND RIDGE VENT TERMINAL (CONCRETE) WITH DRYVENT RIDGE SYSTEM (REGENT)

Ridge batten removed to accommodate Ridge Vent Terminal duct
Half Round Ridge Vent Terminal (concrete)
Terminal Adaptor
Regent tile. Must be mechanically fixed
Flexible Pipe. For use with soil pipes or mechanical ventilation
Trussed rafter
Spirtech 400 2S

SECTION THROUGH RIDGE VENT TERMINAL WITH DRYVENT RIDGE SYSTEM (UNDERLAY OMITTED FOR CLARITY)

Ridge Vent Terminal
Terminal Adaptor
SW ridge batten
Clamping Plate and Woodscrews
Ridge batten fixing straps
Flexible Pipe. For use with soil pipes or mechanical ventilation

GUIDANCE NOTES

- Ridge Vent Terminals are suitable for timber trussed rafter and timber sarking constructions. Where traditional timber rafter construction is used, trimmers will be required for each terminal position to allow a 300mm section of the ridge board to be removed.
- Where Ridge Vent Terminals are used in conjunction with DryVent Ridge and are required in close proximity, at least one rafter spacing will be required between each terminal to allow adequate fixing of the ridge batten after a section has been removed.
- The position of the Ridge Vent Terminal should not be within 600mm of a gas flue such that foul gases can vent back into the building.
- The Ridge Vent Terminal is not suitable where extracted air exceeds 80°C. Please use the Gas Flue Ridge Terminal (see next page).
- For soil pipe termination do not install within 3 metres horizontally and 900mm vertically of an opening e.g. roof windows and roof space ventilation.
- When connected to pipework or ducting, it is recommended that where water is likely to accumulate, joints are sealed and a condensation trap is fitted.
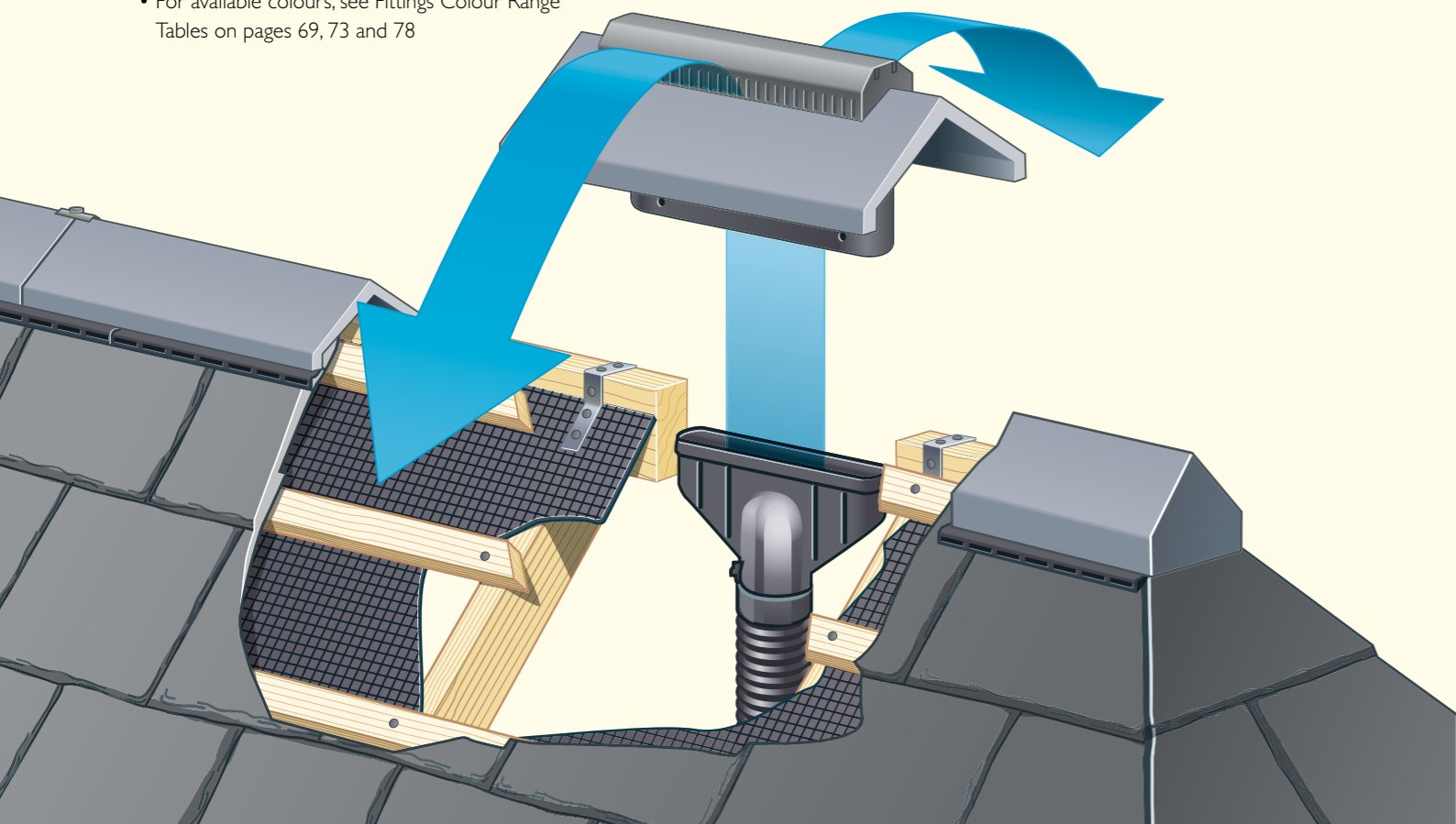
COMPONENTS

Each Ridge Vent Terminal is supplied ready assembled from the following:

- Terminal cap and duct (uPVC – grey)
- Ridge Tile (concrete/clay – various)
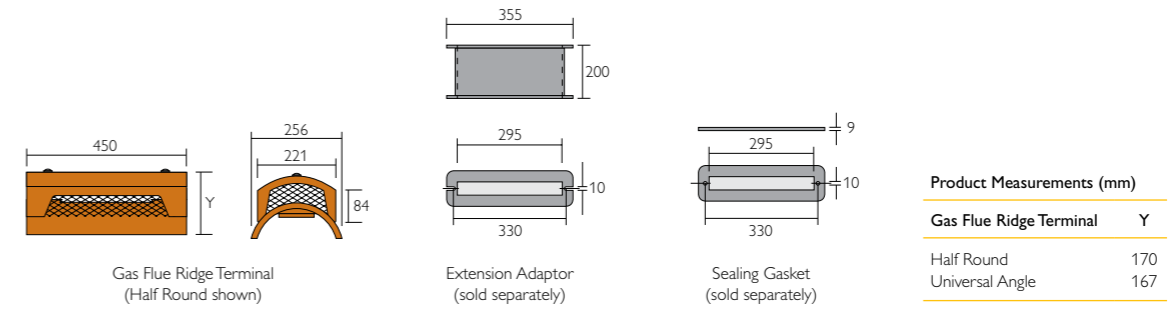
ACCESSORIES

- Terminal Adaptor
- Flexible Pipe

GAS FLUE RIDGE TERMINAL

The Gas Flue Ridge Terminal is designed for use on duo-pitched roofs in conjunction with concrete Half Round or Universal Angle Ridge Tiles on DryVent Ridge or bedded ridges. The Terminal is of low airflow resistance design, to enable flue gases to escape even under high wind speed conditions.

Gas Flue Ridge Terminal
(Half Round shown)

Extension Adaptor
(sold separately)

Sealing Gasket
(sold separately)

Product Measurements (mm)	
Gas Flue Ridge Terminal	**Y**
Half Round	170
Universal Angle	167

FEATURES

• The Terminal is of low resistance to prevent spillage occuring under certain wind speed conditions and complies with BS 5534:2014 requirements for mechanical fixing

• Complies with BS 5440-2:2009. Flueing and ventillation for gas appliances of rated input not exceeding 70kW net
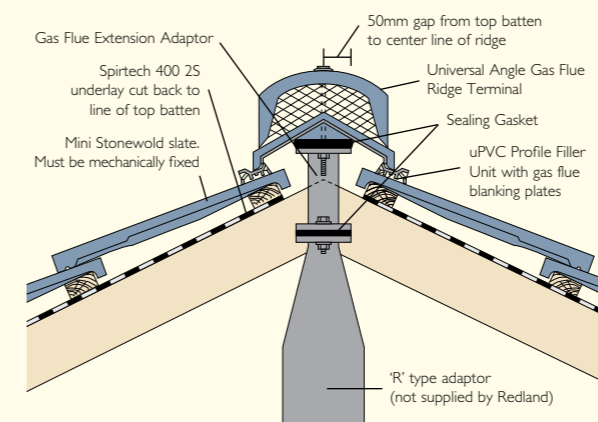
COMPATIBILITY

• Available in concrete Half Round and Universal Angle Ridge Tiles

• Available in a limited range of Traditional and Heritage colours only. For available colours, see Fittings Colour Range Tables on pages 69, 73 and 78

• Gas Flue Blanking Plates packs are required when used in conjunction with DryVent Ridge System

• Not suitable for use with Rapid Vented Ridge Systems or Uni-Vent Rapid Ridge/Hip

• Not suitable for gas-fired condensing boilers

• Not suitable for use as a ventilation tile. For roof space, mechanical and soil pipe ventilation, please use the Redland Ridge Vent Terminal
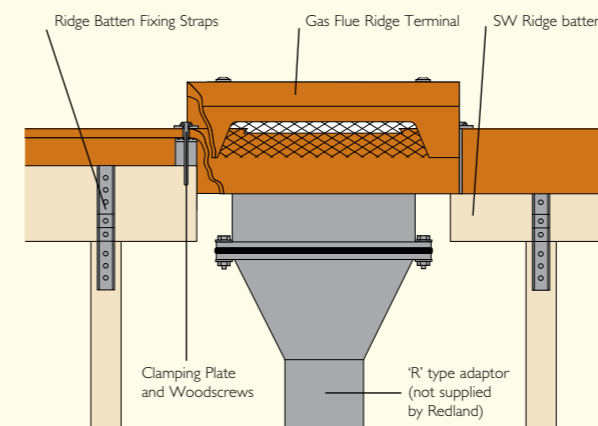
PERFORMANCE

• Minimum and maximum pitch will depend on the tile profile and whether ridge tiles are dry fixed or mortar bedded

• The Terminal is suitable for gas appliances of rated input not exceeding 60kW, but it is not suitable for terminating flues from traditional coal or oil burning appliances. Please check suitability with your gas coal effect fire supplier

• This product is only suitable where the flue can be terminated through a 100mm or 125mm type 'R' adaptor (not supplied by Redland)

GAS FLUE RIDGE TERMINAL WITH DRY VENT RIDGE SYSTEM (MINI STONEWOLD)

Gas Flue Extension Adaptor

Spirtech 400 2S underlay cut back to line of top batten

Mini Stonewold slate. Must be mechanically fixed

50mm gap from top batten to center line of ridge

Universal Angle Gas Flue Ridge Terminal

Sealing Gasket

uPVC Profile Filler Unit with gas flue blanking plates

'R' type adaptor (not supplied by Redland)

SECTION THROUGH GAS FLUE RIDGE TERMINAL WITH DRYVENT RIDGE SYSTEM (UNDERLAY OMITTED FOR CLARITY)

Ridge Batten Fixing Straps

Gas Flue Ridge Terminal

SW Ridge batten

Clamping Plate and Woodscrews

'R' type adaptor (not supplied by Redland)

GUIDANCE NOTES

• Gas Flue Ridge Terminals are suitable for timber trussed rafter and timber sarking constructions. Where traditional timber rafter construction is used, trimmers will be required for each terminal position to allow a 400mm section of the ridge board to be removed.

• Gas Flue Ridge Terminals must have a minimum 600mm of ridge tile between units.

• The top batten should be placed so as to leave a minimum air gap of 25mm to the Extension Adaptor. The underlay and any timber sarking should be cut back to the line of the batten.

• The 'R' type adaptor and Extension Adaptor must be connected to the Terminal with the nuts and washers provided. A gasket must be placed between each component to provide an effective seal.

• When fitting Gas Flue Ridge Terminals, a non-vented ridge is required within 600mm on either side of the Gas Flue to comply with Building Regulations. Gas Flue blanking plates are required for this purpose when used with DryVent Ridge.

Vented Ridge

Gas Flue Terminal

Non Vented Ridge

600   450   600

1650mm of non-vented ridge required by Gas Flue Terminal (to comply with Building Regulations)
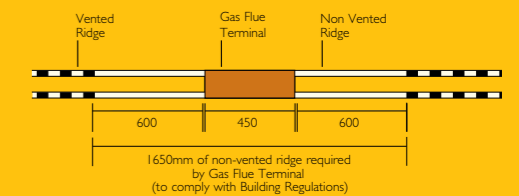
COMPONENTS

Each Gas Flue Ridge Terminal is supplied ready assembled from the following components:

• Ridge Tile (concrete – various colours)

• Bird Screen (Stainless Steel)

• Sealing Gasket (neoprene – black)

ACCESSORIES

• Extension Adaptor

• Sealing Gasket

• 'R' type adaptor (not supplied by Redland)

• Blanking Plate

DRYVENT MONORIDGE SYSTEM

The DryVent Monoridge System provides a continuous weathertight ventilation path from the roof void to the outside. The mechanically-fixed system complies with the requirements of the Building Regulations.

Product Measurements (mm)

Monoridge Tile	P
Half Round	98
Universal Angle	106

Product Measurements (mm)

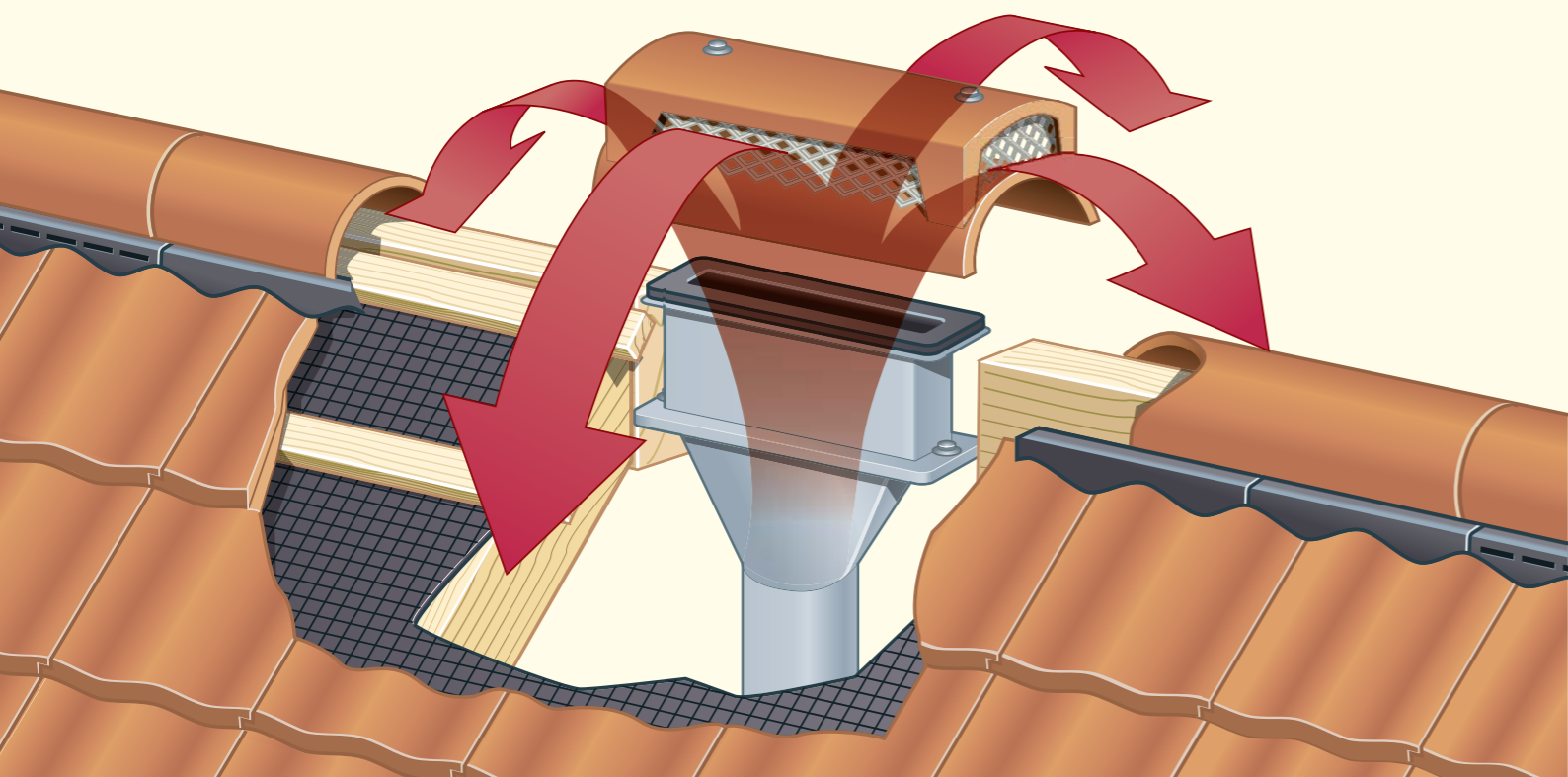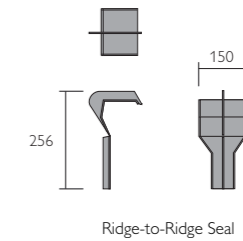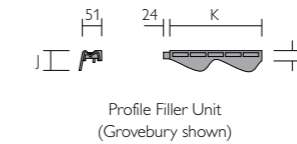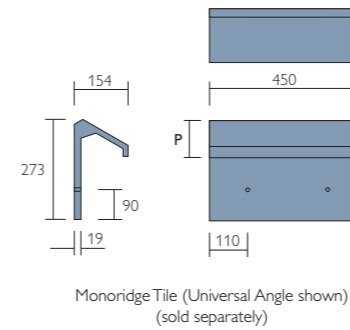| Profile Filler Unit	J	K
Plain Tile appearance/Slate	21	450
Landmark Double Pantile	59	298
Landmark Double Roman	47	298
Regent	59	298
Grovebury	59	298
50 Double Roman	47	298
Renown	40	298

Monoridge Tile (Universal Angle shown)
(sold separately)

Profile Filler Unit
(Grovebury shown)

Ridge-to-Ridge Seal

FEATURES

- Provides a neat and attractive finish
- Profile filler units bespoke to each tile type
- Easy to install and can be laid even when bad weather is expected
- Ventilates to comply with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof
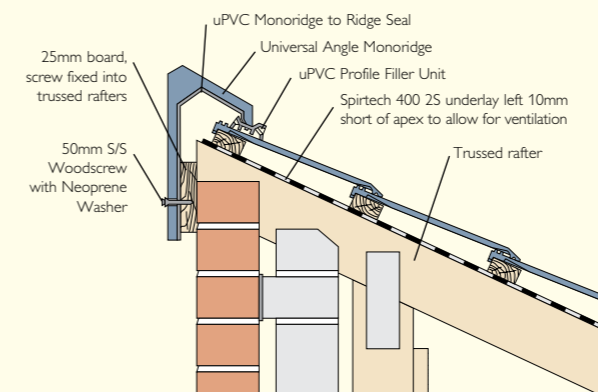- Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing

COMPATIBILITY

- Available for all tiles and slates in the Redland range except Cathedral Clay Pantile, Landmark Single Pantile, Fenland Pantile, Redland 49, Postel Clay Tile and Old Hollow Clay Pantile
- Suitable for use with concrete Half Round and Universal Angle Monoridge Tiles
- For Monoridge Tile colour availability, see Fittings Colour Range Tables on pages 69, 73 and 78

PERFORMANCE

- Minimum pitch will depend upon the minimum pitch of the roof tiles but must not be less than 15°
- Maximum pitch for DuoPlain, Landmark Double Pantile, Landmark Double Roman, Grovebury, Renown and 50 Double Roman is 47.5°; maximum pitch for Slate 10 range and Mini Stonewold is 52.5° (Stonewold II 44°). For all other interlocking tiles, maximum pitch is 45°
- Maximum pitch for Plain Tiles is 55°
- The effective ventilation area per metre run of ridge is 5,000mm²

DRYVENT MONORIDGE SYSTEM (CAMBRIAN)

uPVC Monoridge to Ridge Seal
Universal Angle Monoridge
uPVC Profile Filler Unit
25mm board, screw fixed into trussed rafters
Spirtech 400 2S underlay left 10mm short of apex to allow for ventilation
Trussed rafter
50mm S/S Woodscrew with Neoprene Washer

GUIDANCE NOTES

- The DryVent Monoridge System is suitable for traditional timber rafter, timber trussed rafter and rigid sarking constructions.
- The system is designed to fit a straight and level ridge line.
- When used in association with vertical Plain Tiles, a lead flashing or Wakaflex Rapid Flashing should be dressed over the top of the vertical tiling by a minimum of 150mm.
- Care must be taken to ensure that the air passage from the roof void is not obstructed. Allow 10mm air gap between top tile batten and monoridge fixing batten.
- Underlay is left 10mm short of apex.
- Where the system forms the junction with a flat roof, the flat roof covering should lap behind the downstand leg of the monoridge. Ensure there is sufficient clearance between the downstand leg and the flat roof tilting fillet.
- The system may be used with both Half Round and Universal Angle Monoridge Tiles.
- When using the system with Rosemary clay plain tiles, use Landmark Monoridge Tiles.
- Mechanically fix all slates or tiles on the top course.
- Rosemary Eave/Top Tile does not hang on the final plain tile course. Instead the Eave/Top tile must be twice nailed to an additional batten that is turned on its side. Top and second top batten positions from apex are 10mm and 50mm respectively.
- At gable ends, a Block-End Monoridge Tile or Monoridge End Cap should be used.

COMPONENTS

Each pack contains sufficient components to secure 6 concrete Monoridge Tiles. Each pack contains:
- Profile Filler Units (uPVC – grey) (tile specific)
- Monoridge, Ridge-to-Ridge Seal (polypropylene – black)
- Fixing Screws (Stainless Steel) and Washers (neoprene)

ACCESSORIES

- In addition, concrete Monoridge Tiles will be required in a colour to suit, with matching Mono Block-End Ridge Tiles, left or right-hand, at all gable ends or End Caps.
- A timber batten, 25mm thick, must be fixed vertically to allow monoridge tile fixing.
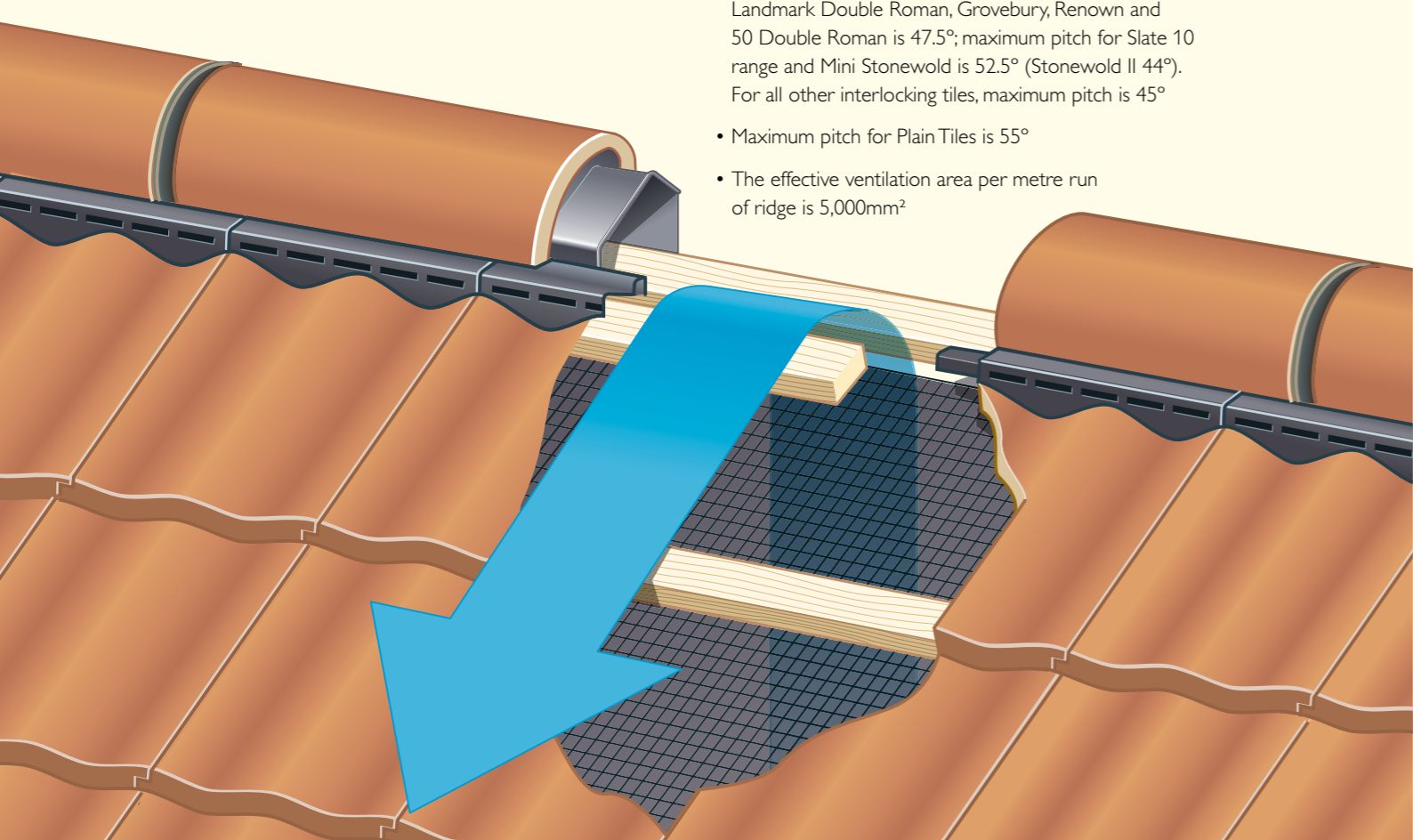
REDLINE VENT TILE

The RedLine Vent Tile provides roof space ventilation through the leading edge of the tile ensuring that the clean lines of the roof are maintained. It is ideal for use where alternative eaves and ridge ventilation systems are not appropriate and can also be used for mechanical extraction and soil pipe ventilation.

DuoPlain Underlay Seal | Plain Tile Underlay Seal | DuoPlain Tiles Adaptor (sold separately) | Plain Tile Adaptor (sold separately) | RedLine Vent Tile (DuoPlain) | RedLine Vent Tile (Plain Tile)

Underlay Seal (except DuoPlain / Plain Tile) | Flexible Pipe (sold separately) | RedLine Vent Tile (Interlocking Tiles)

Product Measurements (mm)

Tile Profile	A	B	C
Landmark Double Pantile	108	172	34
Landmark Double Roman	114	168	31
Regent	113	180	32
Grovebury	108	172	34
50 Double Roman	114	168	31
Renown	110	159	31
Slate 10 Range	124	165	32
Mini Stonewold	119	149	30

FEATURES

- Three variants available: Interlocking, Plain Tile and DuoPlain
- Minimal visual impact
- Identical interlocks to the tiles ensure a simple and weathertight installation
- Ventilates to comply with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof
- Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing
- Complies with BS EN 12056-2:2000, Gravity Drainage Systems Inside Buildings
- To achieve roof space ventilation of 5,000mm² per metre of run, install at 1.2m centres (except DuoPlain 1.57m)
- To achieve roof space ventilation of 10,000mm² per metre of run, install at 0.6m centres (except DuoPlain 0.78m)
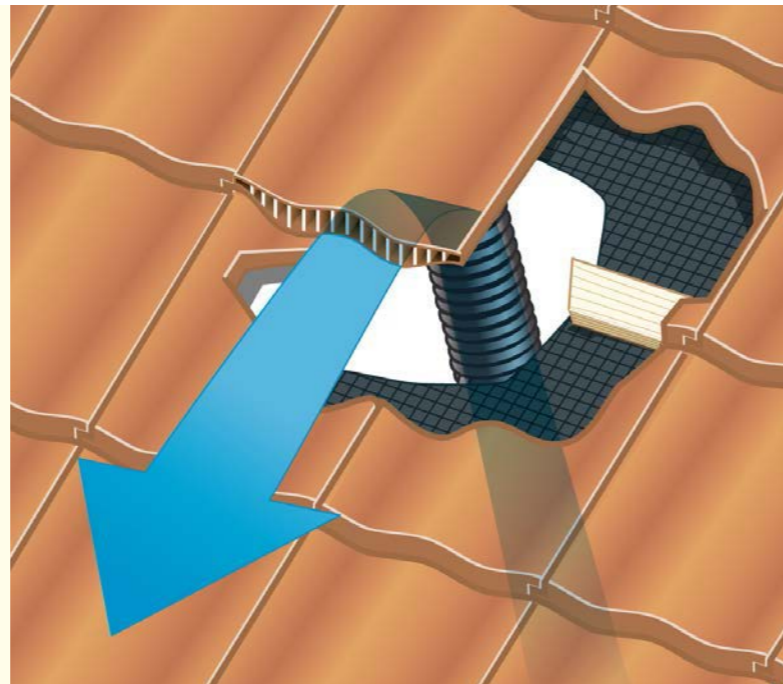
PERFORMANCE

- The pitch range of each RedLine Vent Tile will depend upon the minimum and maximum pitch of the relevant tile profile
- Maximum headlap is the same as that for the relevant tile profile
- The effective ventilation area is 6,000mm² (except DuoPlain which is 7,850mm²)

PRESSURE/AIR-FLOW RESISTANCE (Pa)

Tile Profile	Air-Flow Rate		
	15 L/sec	30 L/sec	60 L/sec
Landmark Double Pantile / Landmark Double Roman /Regent / Grovebury / 50 Double Roman / Renown	29	116	464
Slate 10 Range	32	128	512
Mini Stonewold	22	88	352
DuoPlain	35	140	560
Plain Tile	34	136	544

COMPATABILITY

REDLINE VENT COLOURS (INTERLOCKING TILES)
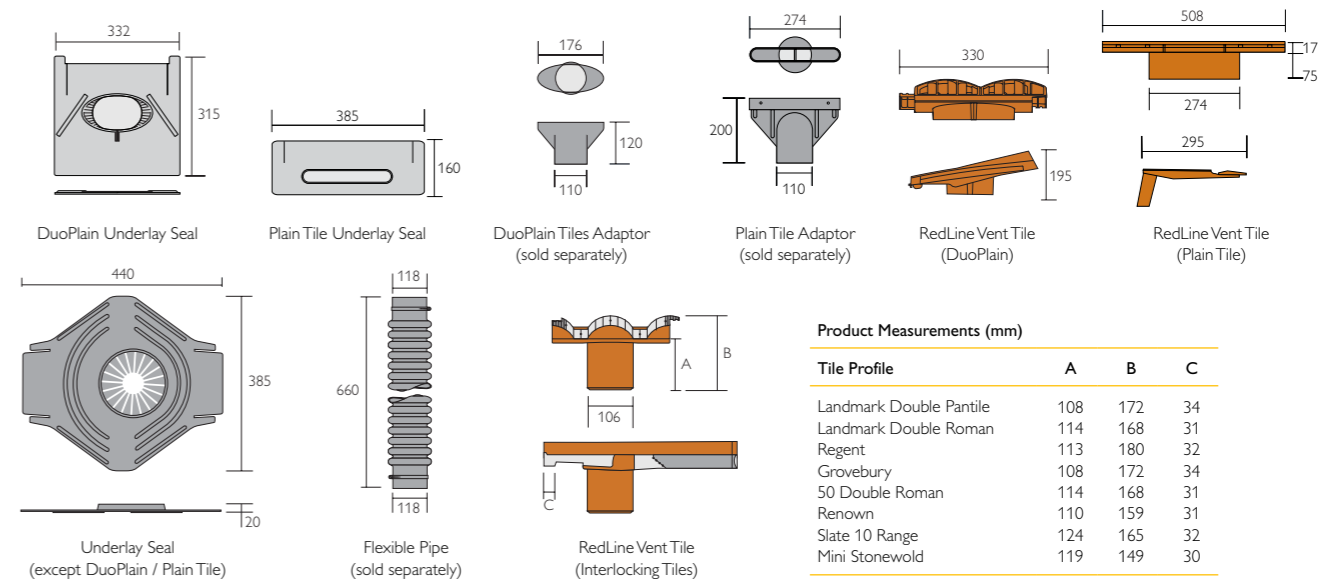
Tile Colour	Vent Colour
11 Tuscan Red	38 Red
30 Slate Grey	30 Slate Grey
34 Terracotta	34 Terracotta
36 Tudor Brown	36 Tudor Brown
38 Flame Red	38 Red
39 Farmhouse Red	34 Terracotta
40 Rustic Brown	40 Rustic Brown
43 Terracotta Brindle	43 Terracotta Brindle
44 Brown Brindle	44 Brown Brindle
45 Rustic Black	45 Rustic Black
47 Brecon Grey	63 Black
52 Breckland Brown	36 Tudor Brown
53 Breckland Black	30 Slate Grey
63 Black	63 Black
64 Blue	63 Black
77 Charcoal Grey	77 Charcoal Grey
78 Rustic Red	78 Rustic Red

REDLINE VENT TILE CONNECTED TO FLEXIBLE PIPE (REGENT)

Polypropylene Underlay Seal lapped in with roofing underlay

Spirtech 400 2S

Regent RedLine Vent Tile. Must be nailed and clipped

Flexible Pipe for use with soil vent and mechanical extraction systems

REDLINE VENT COLOURS (PLAIN TILES)

Tile Colour	Vent Colour
02 Brown	02 Brown
03 Antique Red	03 Antique Red
12 Cotswold	12 Cotswold
18 Hedgerow Brown	18 Hedgerow Brown
27 Natural Red	27 Natural Red
30 Slate Grey	30 Slate Grey
34 Terracotta	34 Terracotta
36 Tudor Brown	36 Tudor Brown
39 Farmhouse Red	34 Terracotta
52 Breckland Brown	36 Tudor Brown
53 Breckland Black	30 Slate Grey
78 Rustic Red	78 Rustic Red
20 Manor House Mix	20 Manor House Mix
22 Wealden Red	03 Antique Red
23 Autumn	23 Autumn
25 Ember	23 Autumn
26 Elizabethan	26 Elizabethan
80 Red	80 Red
81 Light Mixed Brindle	82 Medium Mixed Brindle
82 Medium Mixed Brindle	82 Medium Mixed Brindle
87 Blue Brindle	87 Blue Brindle
91 Burnt Blend	23 Autumn
94 Russet Mix	18 Hedgerow Brown
95 Dark Antique	95 Dark Antique
83 Heather Brindle	26 Elizabethan
84 Hawkhurst	23 Autumn
85 Albury	23 Autumn
98 Victorian	95 Dark Antique
72 Foxwood	34 Terracotta

GUIDANCE NOTES

- Suitable for roof space ventilation and mechanical extraction.
- Suitable for soil vent pipe termination for single and two storey housing.
- Each RedLine Vent Tile should be nailed and clipped except Plain Tile Unit which is secured with 4 nails.
- The Underlay Seal must always be installed to maintain the integrity of the roofing underlay.
- When using the RedLine Vent Tile for roof space ventilation where insulation is between the rafters, ensure the spigot pipe is clear of the insulation and cut if necessary.
- RedLine Vent Tiles are not suitable for hot flue gases, please use the Gas Flue Ridge Terminal.
- RedLine Vent Tiles must not be laid adjacent to one another.
- For soil pipe termination do not install within 3 metres horizontally and 900mm vertically of an opening e.g. roof windows and roof space ventilation.
- When connected to pipework or ducting, it is recommended that where water is likely to accumulate joints are sealed and a condensation trap is fitted.

COMPONENTS

Each pack contains:

- 1 x Vent (UV protected Medium Density Polyethylene (MDPE) – PVC for Redland DuoPlain)
- 1 x Underlay Seal
- Complete fixing instructions

ACCESSORIES

- Flexible Pipe to connect to a 110mm soil vent or mechanical extract pipe
- Tile adaptor

50 VENTILATION TILES
REDLINE VENT TILE

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CUSTOMER SERVICE HOTLINE: 03705 601000

8 VENTILATION TILES
REDLINE VENT TILE 51

THRUVENT TILE

The ThruVent Tile is a means of incorporating ventilation within the roof slope where alternative eaves and ridge ventilation systems are not appropriate. It can also be used for mechanical extraction and soil pipe ventilation.
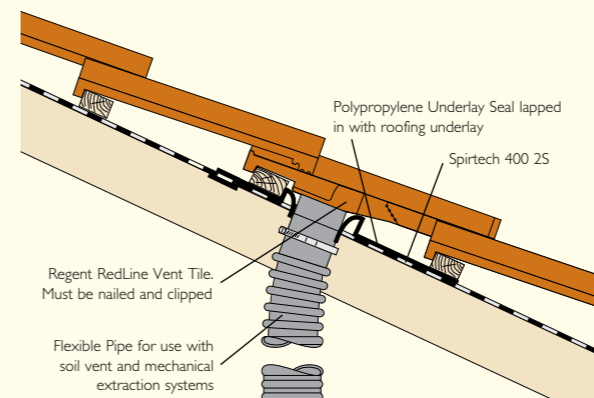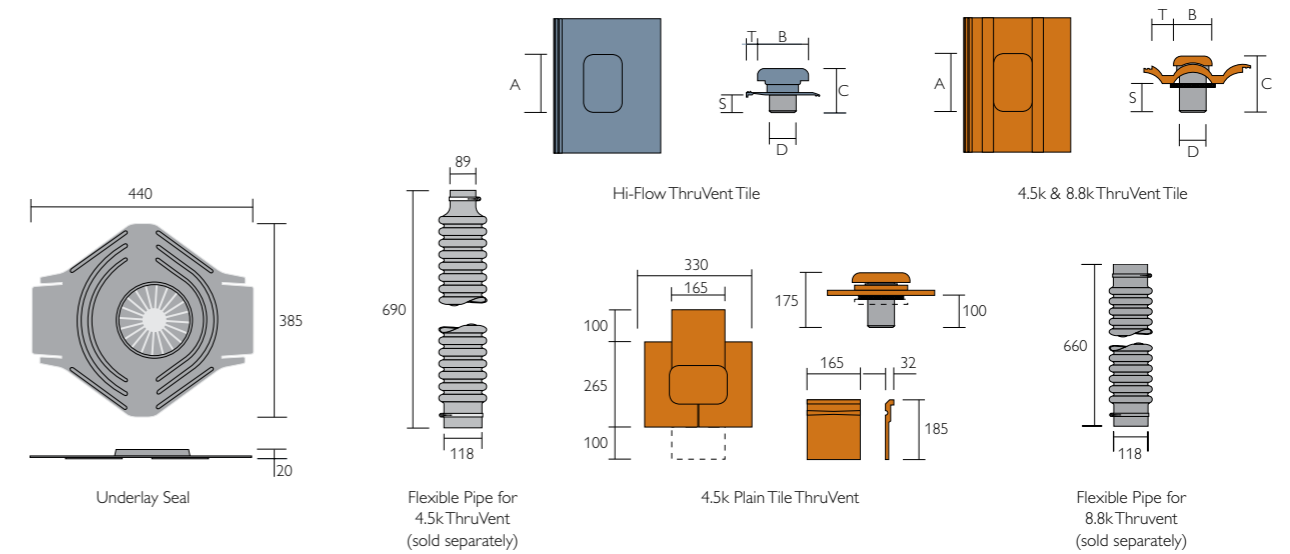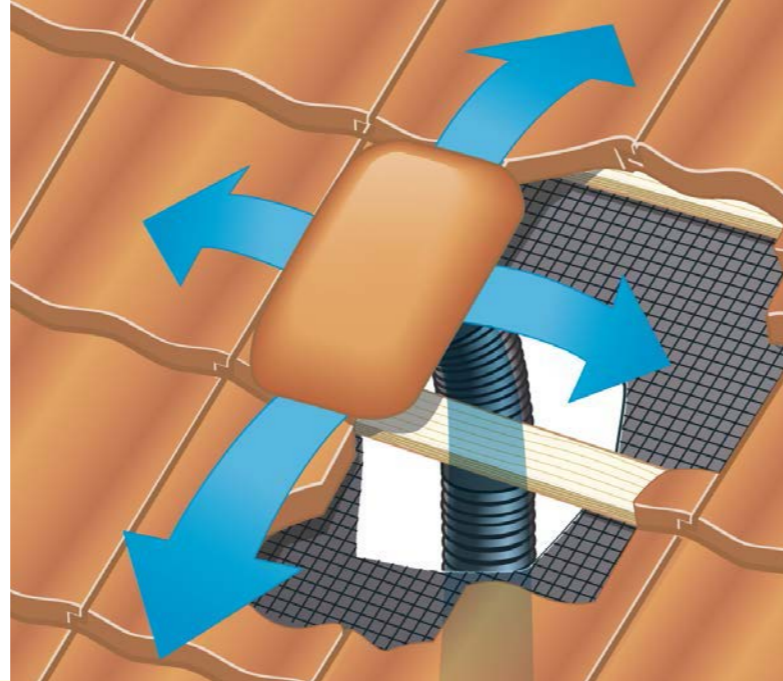

Hi-Flow ThruVent Tile

4.5k & 8.8k ThruVent Tile

440 / 385 / 20
Underlay Seal

89 / 690 / 118
Flexible Pipe for 4.5k ThruVent (sold separately)

330 / 165 / 100 / 265 / 100
4.5k Plain Tile ThruVent

175 / 100 / 165 / 32 / 185

660 / 118
Flexible Pipe for 8.8k Thruvent (sold separately)

FEATURES

- Ventilates to comply with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof
- Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing
- Complies with BS EN 12056-2:2000, Gravity Drainage Systems Inside Buildings

COMPATIBILITY

- Available for all tiles and slates in the Redland range in all colours (except DuoPlain, Rosemary, and Heathland)
- Vent Tiles are also available for natural state

PERFORMANCE

- Minimum and maximum pitch will depend on the profile and surface finish
- Minimum and maximum headlap will depend on the tile profile
- To achieve the specified roof space ventilation the ThruVent tiles should be spaced according to the table below

THRUVENT PERFORMANCE / SPACING

ThruVent	Roof space ventilation (mm²/m)	ThruVent spacing (m)
4.5k	5,000	0.9
4.5k	10,000	0.45
8.8k	5,000	1.76
8.8k	10,000	0.88
8.8k	25,000	0.35
Hi-Flow	25,000	0.6

Can also be used for:

- Mechanical extraction ventilation
- Soil ventilation: Use 4.5k for low rise building (up to 2 storey). No building height restriction applies to the 8.8k ThruVent Tile or the Hi-Flow ThruVent Tile

THRUVENT'S AIRFLOW RESISTANCE

	Range	Tile Profile	Pressure/Air Flow Resistance (Pa)		
			15L/sec	30L/sec	60L/sec
4.5k ThruVent#	Slate	Cambrian Slate / Fontenelle	22	88	352
	Plain Tile	Plain Tile	25	100	464
	Profile	Cathedral Clay Pantile / Landmark Single Pantile / Fenland Pantile / Old Hollow Clay Pantile	23	92	368
		Redland 49 / Postel Clay Tile	29	116	464
8.8k ThruVent†	Slate	Slate 10 Range	2	8	31
		Stonewold II	3	12	49
		Mini Stonewold	4	15	62
	Profile	Landmark Double Pantile / Grovebury	2	8	32
		Landmark Double Roman / 50 Double Roman	2	10	38
		Regent	2	8	34
		Renown	3	12	47
Hi-Flow#	Slate	Cambrian Slate	3.5	14	56

* Equivalent ventilation area 4,500mm², downpipe diameter 75mm
† Equivalent ventilation area 8,800mm², downpipe diameter 100mm
# Equivalent ventilation area 15,000mm², no downpipe

PRODUCT MEASUREMENTS (MM)

Tile Profile	S	T
4.5k ThruVent Tile (A=180, B=120, C=175, D=83)		
Cambrian Slate	124	60
Cathedral Clay Pantile / Old Hollow Clay Pantile	105	9
Landmark Single Pantile/ Fenland Pantile	122	33
Redland 49	107	40
8.8k ThruVent Tile (A=303, B=202, C=200, D=109)		
Slate 10 Range	88	24
Stonewold II	177	45
Mini Stonewold	114	22
Landmark Double Pantile	85	31
Landmark Double Roman	98	23
Grovebury	85	31
50 Double Roman	98	23
Regent	86	21
Renown	103	26
Hi-Flow ThruVent Tile	119	1

4.5K THRUVENT TILE CONNECTED TO FLEXIBLE PIPE (REDLAND 49)

Redland 49 ThruVent Tile
Spirtech 400 2S
Underlay Seal
Flexible Seal. For use with soil pipes and mechanical ventilation
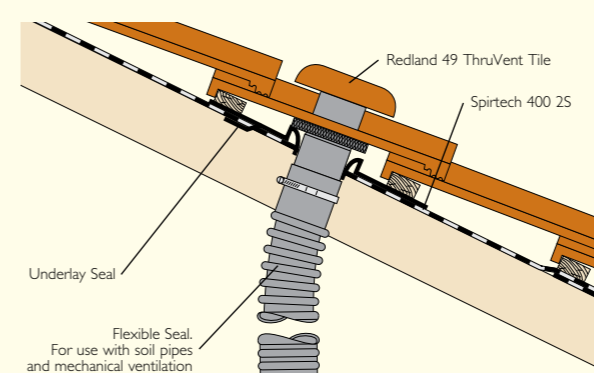
8.8K THRUVENT TILE (50 DOUBLE ROMAN)

50 Double Roman ThruVent Tile
Spirtech 400 2S
Underlay Seal
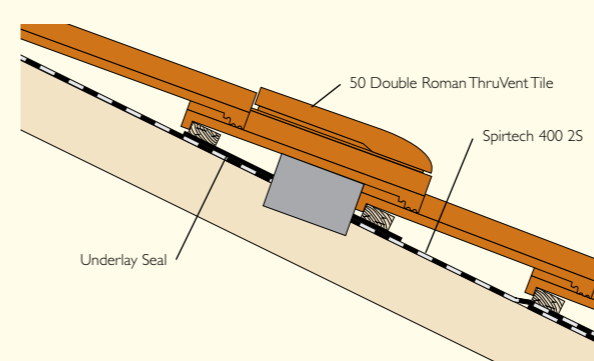
GUIDANCE NOTES

- The Underlay Seal provided should always be installed to maintain the integrity of the roofing underlay.
- Where Plain Tile ThruVents are positioned between each rafter spacing, they should be staggered on alternate courses.
- Where ThruVent Tiles are used in combination with insulation between the rafters, ensure that the spigot pipe on the underside is clear of the insulation, by cutting the pipe where necessary.
- ThruVent Tiles are not suitable for hot flue gases, please use the Gas Flue Ridge Terminal (see page 46).
- Plain Tile ThruVents are installed to 100mm gauge only.
- For soil pipe termination do not install within 3 metres horizontally and 900mm vertically of an opening e.g. roof windows and roof space ventilation.
- When connected to pipework or ducting, it is recommended that where water is likely to accumulate joints are sealed and a condensation trap is fitted.
- A Hi-Flow ThruVent Tile with an effective ventilation area of 15,000mm² is also available for Cambrian Slate. Suitable for low level ventilation at valleys where insulation is positioned between the rafters (partial-fill). Install one Hi-Flow ThruVent tile per rafter space either side of the valley to provide effective ventilation equivalent to 25,000mm²/m.

COMPONENTS

- The ThruVent Tile is manufactured in concrete with a PVC ventilation unit and cap. The caps are colour coordinated to the colour of the tile base.
- The Plain Tile ThruVent consists of a three tile moulded unit, batten support brackets and clips.
- Each ThruVent Tile is supplied with a Underlay Seal.

Each pack contains:
- 1 × ThruVent (concrete and PVC)
- 1 × Underlay Seal

ACCESSORIES

- A Flexible Pipe is available for connecting to a 110mm soil vent pipe or mechanical ventilation duct.

52 VENTILATION TILES
THRUVENT TILE

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8 VENTILATION TILES
THRUVENT TILE **53**

RAPID ROOF VENT TILE

A range of discrete ventilating tiles suitable for both low and high-level roof space ventilation, to combat condensation, as well as mechanical and soil pipe ventilation. Suitable for use with most popular interlocking concrete tiles and plain tiles.

Interlocking Tiles Rapid Roof Vent (except Redland 49) — 423, 330, 100

Redland 49 Rapid Roof Vent — 385, 230, 65
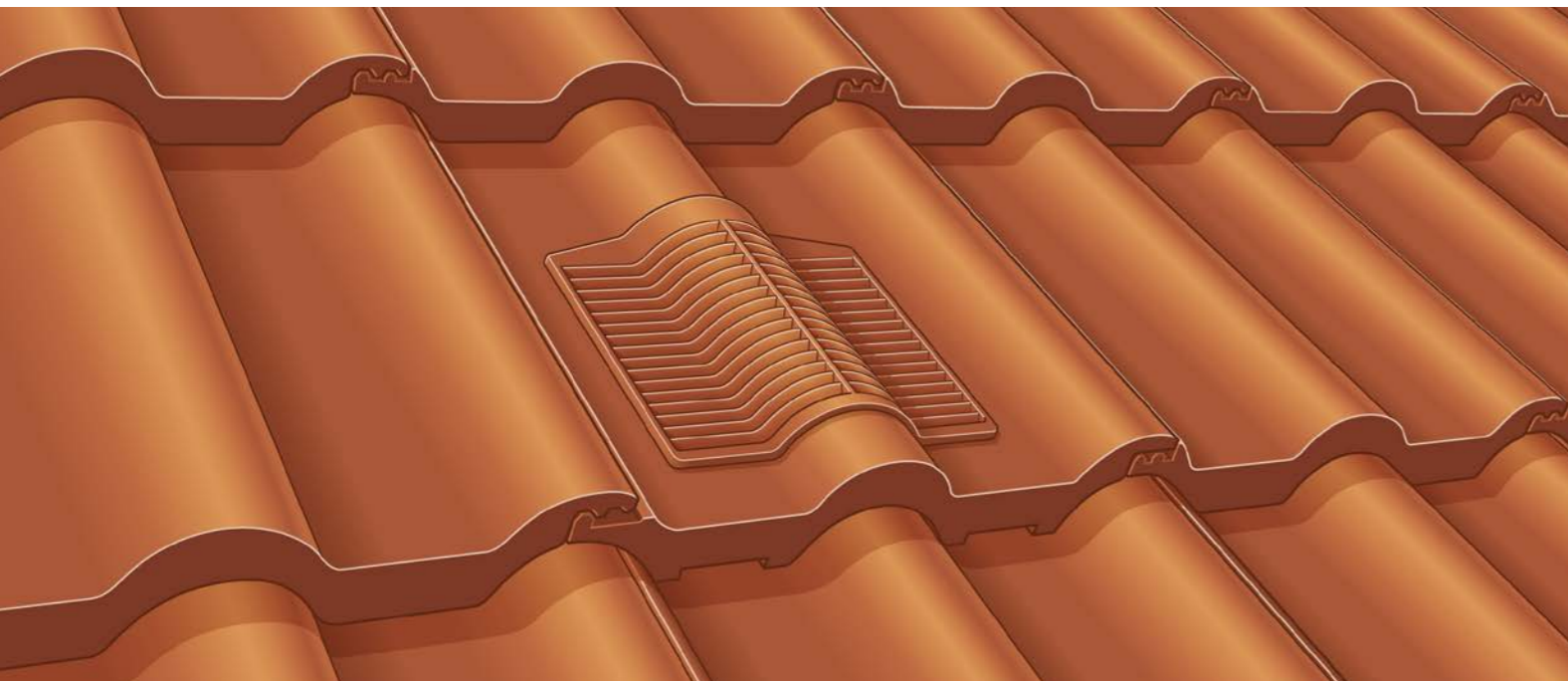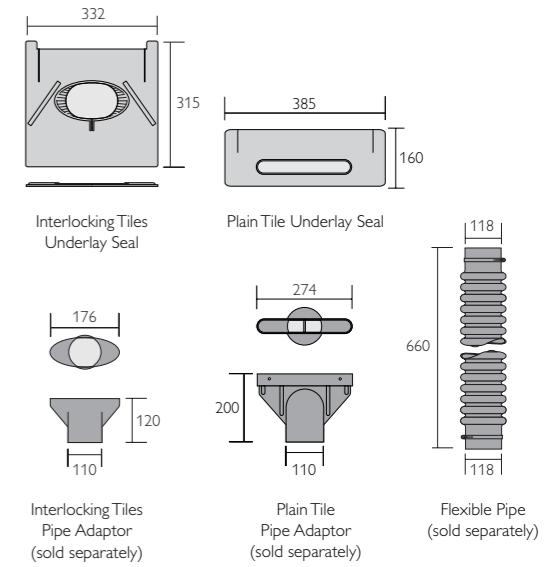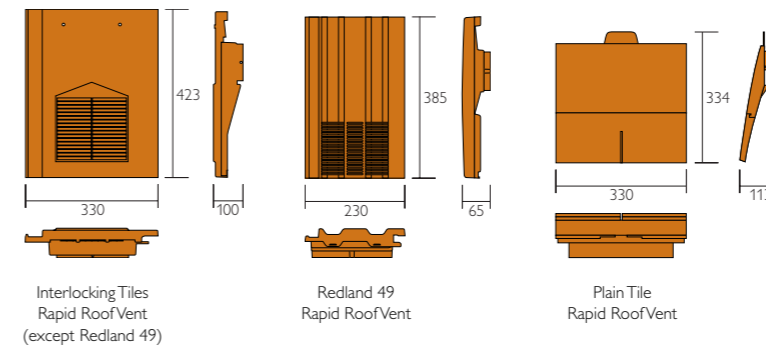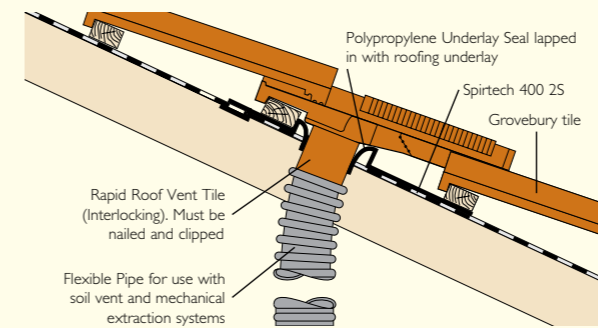
Plain Tile Rapid Roof Vent — 334, 330, 113

Interlocking Tiles Underlay Seal — 332, 315

Plain Tile Underlay Seal — 385, 160

Interlocking Tiles Pipe Adaptor (sold separately) — 176, 120, 110

Plain Tile Pipe Adaptor (sold separately) — 274, 200, 110

Flexible Pipe (sold separately) — 118, 660, 118

RAPID ROOF VENT TILE CONNECTED TO FLEXIBLE PIPE (REGENT / GROVEBURY)

Polypropylene Underlay Seal lapped in with roofing underlay

Spirtech 400 2S

Grovebury tile

Rapid Roof Vent Tile (Interlocking). Must be nailed and clipped

Flexible Pipe for use with soil vent and mechanical extraction systems

GUIDANCE NOTES

- Place the vent tile in position so that the moulded underside clip is located below the interlock of the adjacent tile to prevent the vent tile from lifting.
- Ensure the underlay seal fits around the spigot and returns to a flat position against the underlay after fitting.
- When using the adaptor, ensure the adaptor lugs are located in the appropriate channels in the vent spigot.
- Rapid Roof Vent for Redland 49 tiles must be installed with the Pipe Adaptor supplied.

COMPONENTS

Each pack contains:
- 1 × Vent
- 1 × Underlay Seal
- 1 × Pipe Adaptor (Redland 49 Vent only)

Also available:
- Interlocking Tiles Pipe Adaptor or Plain Tiles Pipe Adaptor
- Flexible Pipe

RAPID ROOF VENT TILE COLOURS

Tile Type	Tile Colour	Vent Colour
Mini Stonewold / Grovebury / Renown / 50 Double Roman	30 Slate Grey	30 Grey
	34 Terracotta	34 Terracotta
	36 Tudor Brown	36 Brown
	39 Farmhouse Red	34 Terracotta
	52 Breckland Brown	36 Brown
	53 Breckland Black	30 Grey
Redland 49	03 Antique Red	03 Antique Red
	34 Terracotta	34 Terracotta
	36 Tudor Brown	36 Brown
	39 Farmhouse Red	34 Terracotta
	52 Breckland Brown	36 Brown
	78 Rustic Red	03 Antique Red
Plain Tile	02 Brown	02 Brown
	03 Antique Red	03 Antique Red
	34 Terracotta	34 Terracotta
	36 Tudor Brown	36 Brown
	39 Farmhouse Red	34 Terracotta
	52 Breckland Brown	36 Brown
	78 Rustic Red	03 Antique Red

FEATURES

- Discrete design matches the aesthetics of the roof
- Excellent weather performance
- Rigid construction, high quality
- Guaranteed weathertight and secure for 10 years when used with the Redland range of tiles and slates

COMPATIBILITY

- Complies with NHBC guidelines for high-level ventilation in new build housing
- Suitable for Renown, 50 Double Roman, Grovebury, Mini Stonewold, Redland 49 and concrete Plain Tiles in a range of colours

PERFORMANCE

- The effective ventilation area is 10,000mm² (except Redland 49 which is 8,600mm² and Plain Tile which is 6,500mm²)

To achieve the specified roof space ventilation, Rapid Roof Vents should be spaced according to the table below

RAPID ROOF VENT PERFORMANCE / SPACING

Rapid Roof Vent	Roof Space Ventilation (mm²/m)	Vent Spacing (m)
Interlocking (except Redland 49)	5,000	2
	10,000	1
	25,000	0.4
Redland 49 (inc Adaptor)	5,000	1.72
	10,000	0.86
	25,000	0.34
Plain Tile	5,000	1.3
	10,000	0.65
	25,000	0.26

54 VENTILATION TILES
RAPID ROOF VENT TILE

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8 VENTILATION TILES
RAPID ROOF VENT TILE 55

OUTLET ADAPTORS

A range of modular Outlet Adaptors, that can be combined with Redland interlocking concrete tiles to give a great fit and match to the rest of the tiles, giving peace of mind, a tidy look and a weathertight roof.

| 80 | 249 | 154 |

Cable Adaptor

| 162 | 249 | 154 |

Solar Adaptor

| 300 | 249 | 154 |

Aerial Adaptor

CABLE ADAPTOR

SOLAR ADAPTOR

AERIAL ADAPTOR

SOLAR ADAPTOR (RENOWN)

Solar Adaptor

Renown Tile

Cable Seal

Spirtech 400 2S
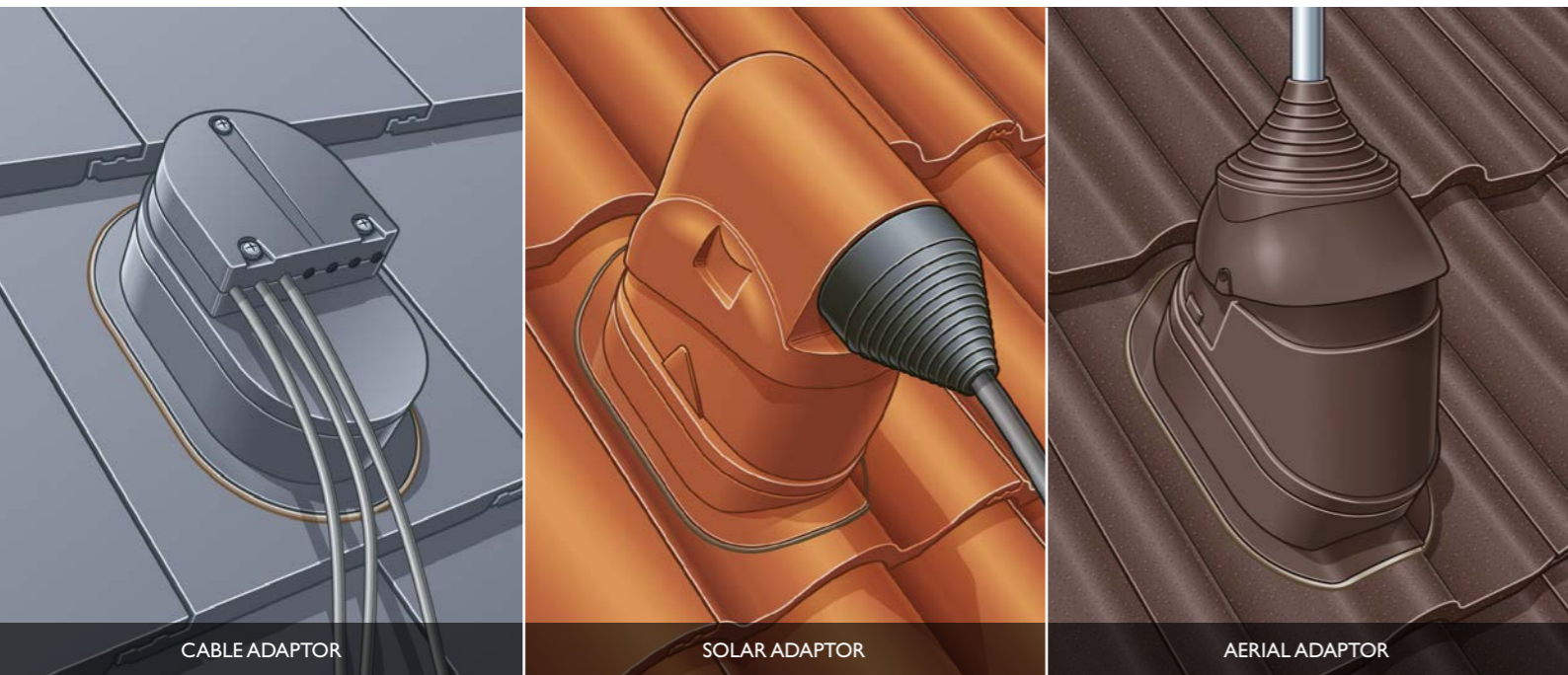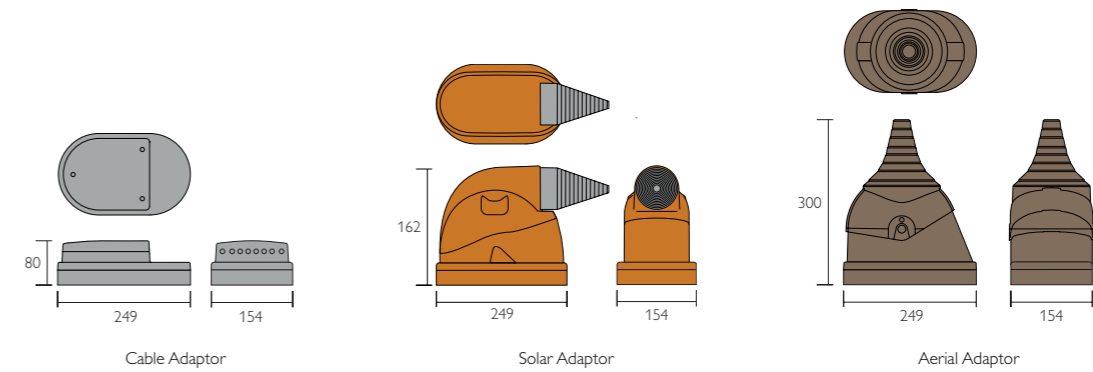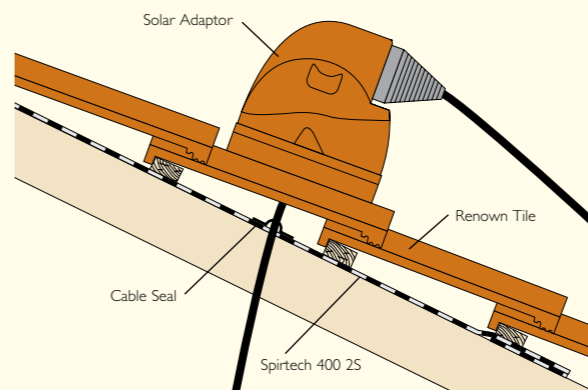
GUIDANCE NOTES

- The Cable Adaptor comes in two sections, with a foam strip to seal the cables and a blanking strip to close any holes that are not used. The assembly is secured with three screws.
- The Solar Adaptor is sealed using the rubber gasket, which can be cut to fit the size of the cable or pipe being used. The adaptor can accommodate up to 70mm diameter cables.
- The Aerial Adaptor comes in two parts. The lower part can be rotated 180° to allow for a different range of roof pitches. The upper part snaps onto the lower part and is adjusted to the vertical. The top of the upper part can be cut to suit different mounting pole diameters.
- Cable Seals should be used wherever the underlay is penetrated. They maintain the integrity of the roof system and prevent any water on the underlay entering the roof space. They are available in a range of sizes to suit different cable/pipe sizes and should always be installed in a diamond orientation.

COMPONENTS

MATERIAL	
Outlet Base	Concrete
Outlet Adaptor	PVC

ACCESSORIES

- Cable Seal

FEATURES

- Three-part system comprising of:
  - Outlet Base Tile to match the other tiles on the roof
  - Cable Adaptor, Solar Adaptor or Aerial Adaptor depending on application
  - Cable Seal to ensure the integrity of the underlay
- Fits surrounding tiles perfectly and matches tile colour
- Easy to use
- Secure fixing system

COMPATIBILITY

- Outlet Base Tiles are available for the following tiles in all available colours: Landmark Double Pantile, Landmark Double Roman, Grovebury, 50 Double Roman, Regent, Renown, Stonewold II, Saxon 10 Slate, Landmark 10 Slate, Richmond 10 Slate, MockBond Richmond 10 Slate, Mini Stonewold, and MockBond Mini Stonewold
- Cable, Solar and Aerial Adaptors are available in the following colours: Grey, Terracotta and Brown
- Cable Seals are available in the following sizes: 8-12mm, 15-22mm and 25-32mm

PERFORMANCE

- **Cable Outlet Adaptors** – the perfect solution for passing cables into the roof space whether they are from solar PV panels, TV aerials or satellite dishes. They can hold up to 8 separate cables with each held securely in place and sealed against water penetration with a foam seal
- **Solar Outlet Adaptors** – designed for larger cables or pipes, such as those for a solar thermal panel. These cables and pipes are less flexible, so the assembly has plenty of space to allow for this
- **Aerial Outlet Adaptors** – can be used to allow aerials, satellite dishes and other roof mounted items to be attached through to the roof space for when there is no suitable alternative external fixing point. The adaptor provides a weathertight seal around the mounting pole and maintains the integrity of the roof covering

56 ACCESSORIES
OUTLET ADAPTORS

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9 ACCESSORIES
OUTLET ADAPTORS

57

RAPID ROOF PUTTY

Rapid Roof Putty is a flexible, fibre-reinforced synthetic mortar. It can be used with all types of concrete tiles and slates as an alternative to traditional concrete mortars, and provides weathertightness against driving rain and drifting snow.
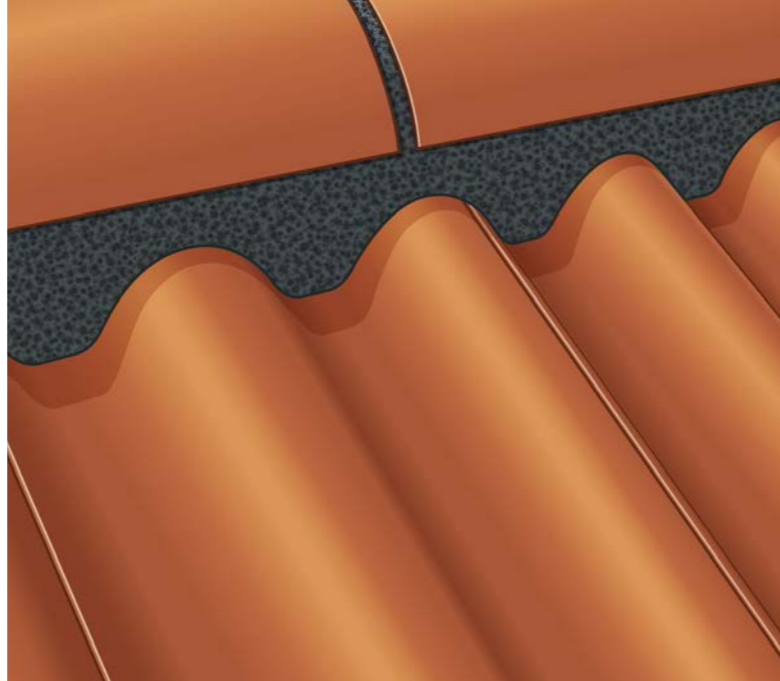
FEATURES

- Available in Black, Brown and Terracotta
- Ready to use straight out of the box
- Lightweight
- Easy to transport onto the roof
- Elastic product flexes naturally with the roof
- Doesn't crack over time
- Minimal mess and waste
- Can be installed even when bad weather is expected

COMPATIBILITY

- Compatible with Redland's complete concrete tile range
- Not suitable for use with clay tiles and Cambrian Slate

PERFORMANCE

- Weight is approximately 500g/m³
- Made from linseed and mineral oils combined with micro polystyrene balls
- Drying takes place naturally when exposed to air
- Can be formed with a trowel to give a smooth finish with any excess putty used for the next ridge tile
- Dries to a slightly darker tone than when first taken out of the bag
- All ridge and hip tiles should be mechanically fixed through to the ridge/hip batten to comply with BS 5534:2014. Verge tiles should be fixed with verge clips

RAPID ROOF PAINT

Rapid Roof Paint is an ideal solution for roofers wishing to paint over those tiles which have become scratched or scuffed during distribution or laying, ensuring the whole roof looks its best.

FEATURES

- Conceals scuffs and scratches
- Quick and easy to apply
- Lasts up to eight years
- Can be applied with a standard paint brush
- The same paint used in the tile manufacturing process to give the repainted tiles an exact match to their original colour

COMPATIBILITY

- Available in 3 colours – Black (63), Blue (64) and Charcoal Grey (77)
- Can be used on all Redland colour-coated tiles and fittings
- Not suitable for use on whole roofs or any uncoated tiles and fittings

PERFORMANCE

- Designed for colour touching-up only

RAPID ROOF PUTTY (CAMBRIAN SLATE)

Universal Angle Ridge
Continuous 500mm wide strip of underlay
S/S Drive Screw with Neoprene Washer and Foam Grommet
Rapid Roof Putty, refer to guidance notes
S/S Ridge Batten Fixing Strap fixed to each rafter
SW batten
SW ridge batten 38mm wide
Cambrian Slate
Trussed rafter
Underlay to overlap apex by min.150mm

KRO-CLIP

Kro-Clip is a versatile clip that allows small roof tile cuts to be mechanically fixed in accordance with BS 5534:2014, particularly at hips and valleys.
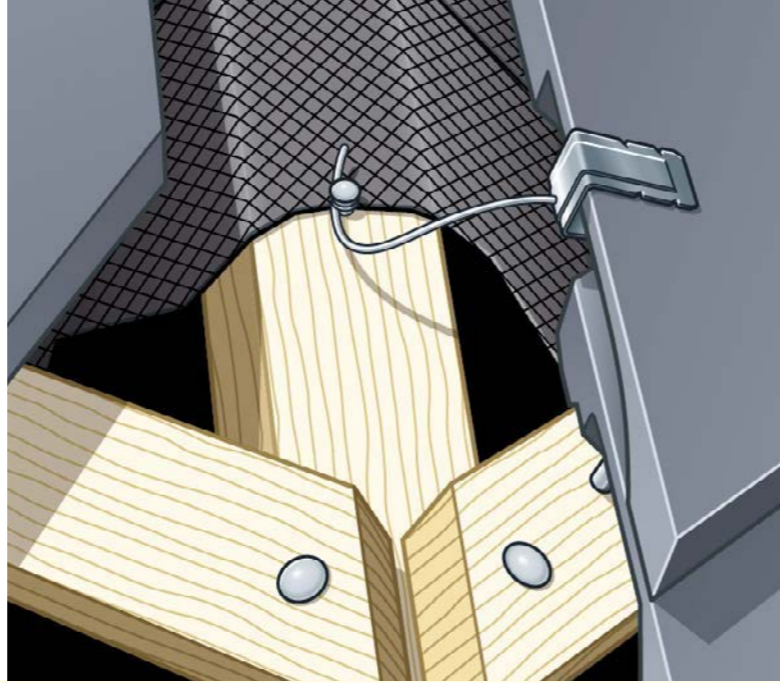
FEATURES

- Robust solution to the long-standing problem of fixing small cut tiles
- Quick and easy to fit
- Firmly grips the side of the tile
- Suitable for numerous roofing details such as at hips and valleys and around roof windows, dormers and solar PV panels
- Mechanical fixing for consistent results, removing the need for glue which requires optimum conditions for use
- Supplied in convenient boxes of 50 clips
- Universal fit covering a large range of tile types

COMPATIBILITY

- Works with any tile from 8-16mm thickness, including Plain Tiles and DuoPlain, or where the cut section of the tile is 8-16mm thick
- Not suitable for Cambrian Slate

PERFORMANCE

- The rigid clip is secured to the roof tile using a hammer. The attached wire is then wound around a nail which itself is secured to a convenient structural timber fixing point, e.g. a tiling batten, ridge or hip rafter
- The Kro-Clip can be used either on its own or in combination with other clips such as the Redland C-Clip to provide secure head and/or tail fixings for small roof tile cuts and other difficult to fix roof tiles

12

30   380

Kro-Clip

INNOFIX CLIP

Innofix is the revolutionary new tool-free tile clip. Simple to fix, with less tile breakage and quicker than ever to install. It's our strongest clip yet, and suitable for all UK exposures under the new BS 5534:2014.
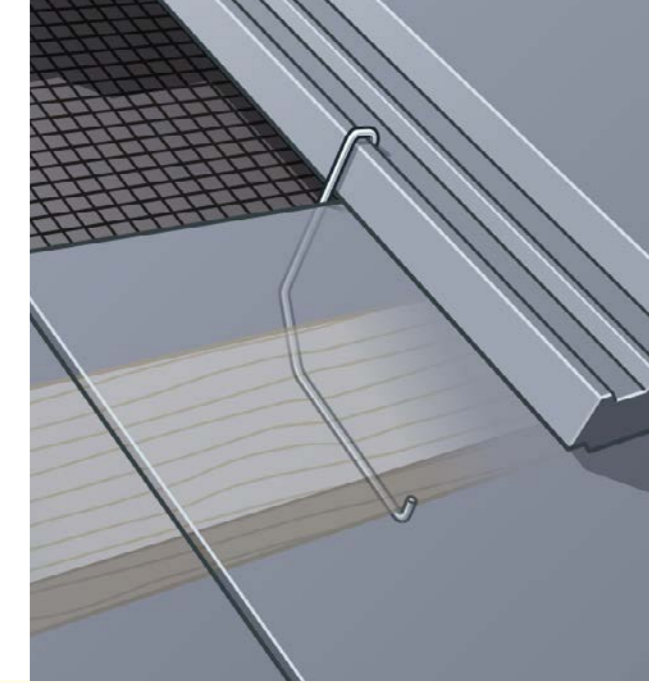
FEATURES

- Five sizes available to suit all Redland concrete interlocking tiles
- Tool-free – quick and simple to fix
- Unique clip magazine allowing tangle-free usage
- Colour-coded for error-free identification

COMPATIBILITY

- Innofix Clips are compatible with the following tiles:
  - Red: Grovebury, Regent, Landmark Double Pantile, Landmark Single Pantile and Fenland Pantile
  - Light Blue: 50 Double Roman and Landmark Double Roman
  - Light Orange: Redland 49 and Renown
  - Gold: Mini Stonewold and MockBond Mini Stonewold
  - Purple: Richmond 10 Slate, MockBond Richmond 10 Slate, Saxon 10 Slate, Landmark 10 Slate and DuoPlain

- For the tile course immediately above a sprocket, it is necessary to use the next colour up i.e. instead of Purple use Gold, instead of Gold use Light Orange, instead of Light Orange use Light Blue, instead of Light Blue use Red. For sprockets on a roof using the Red clip, a special Black clip is available

PERFORMANCE

- Up to 40% quicker to install than traditional nailed clips
- Suitable for all exposure zones under BS 5534:2014
- Rustproof and made to last the lifetime of the roof
- Quickest ever clip to install
- Storm-proof

14

32-52

24-42

15

79-84

Innofix Clip

InDaX PV System

INDAX PV SYSTEM

Based on proven crystalline technology, the fourth generation of InDaX photovoltaic integrated modules fulfils two functions: clean, solar electricity generation and a secure roof covering. The low system height, as the panel sits in line with the surrounding tiles, creates an improved aesthetic and weathertight system.

Power Output	250Wp
Solar Cells per Module	60
Cell Type	Polycrystalline
Cell Dimensions	156 x 156mm
Front Panel	Tempered Solar Glass
Backside Panel	Laminated Thermoplastic
Framing	Black Anodised Aluminium
Overall Dimensions	1769 x 999mm
Installed Dimensions (visible)	1705 x 999mm
Thickness	75mm
Weight	21.5kg (approx)
Laid Weight	2.1kg/m^2 (approx)

GUIDANCE NOTES

• Modules can be installed from left to right or right to left and can be installed in either rows or columns. This flexibility, along with a minimum number of parts and the low system weight, means the installation can be carried out simply and quickly. Modules are installed from top to bottom ensuring maximum safety during installation. Separate drainage channels overcome any unevenness in the roof structure.

COMPONENTS

• A Basic Set must always be used. The Basic Set comprises of a 2 x 2 module array and all framings and flashings to fit.

• For larger module arrays, extension sets are used (horizontal and/or vertical) along with additional drainage channels and head clamps as necessary.

FEATURES

• Low overall system height with modules mounted in attractive black coated aluminium framing

• Safe, flexible and quick assembly

• Wide pitch range capability

• Maximum energy yield

• Weathertight and high wind uplift resistance

• Fully MCS and BBA certified, FIT-compliant

• 25-year power output guarantee

COMPATIBILITY

• Compatible with all Redland tiles and slates and similar profiles

PERFORMANCE

• The InDaX PV System can be installed on roofs with pitches between 15° and 65°

• Modules are laid in arrays and mounted in specially designed framing that optimises the ventilation at the rear of each module and thereby maximises the power output. Holes in the eaves profile allows condensate to drain away

• InDaX 250 modules fulfil the same protective functions as roof tiles, i.e. weathertightness and resistance to wind uplift. Modules can withstand loads up to 550kg/m^2. High quality flashings from the roof window industry are used

• InDaX PV System is certified to MCS 005 and MCS 012 covering wind uplift resistance, weathertightness and external fire resistance

• Redland guarantees that during the first year of operation the module power output will be at least 96.5% of the rated power output. From year 2 to 25, the manufacturer guarantees that the module power output will reduce by no more than 0.6% per year of the rated power output, such that by the end of the 25th year of operation, the modules will still provide a minimum power output of 82% compared to the rated power output

APPROVED PRODUCT

ORNAMENTAL TILES, RIDGES AND FINIALS

With decorative effects being incorporated more frequently into roof designs, we offer the Bullnose ornamental tile in all our clay and concrete plain tile colours.

Three Hole
Crested Ridge

Fleur-de-Lys
Ridge

Cockscomb
Ridge

Scroll Finial

Short Ball Top
Finial

Tall Ball
Top Finial

Fleur-de-Lys
Finial

Redland offers three concrete ornamental ridges and four finials for both Universal Angle and Half Round Ridges, designed to replicate the most popular ornamental features found within the built environment.

KEY ADVANTAGES

- Ornamental Ridges and Finials are fully compatible with all our ridge fixing systems
- Club Tiles have a guaranteed performance in all weather conditions down to 40° pitch
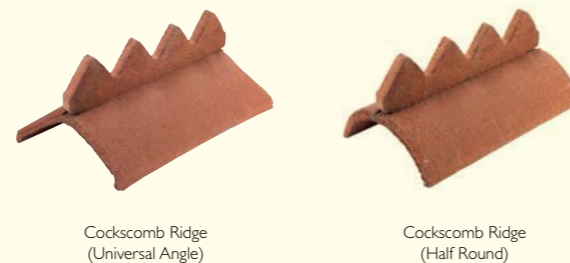
Cockscomb Ridge
(Universal Angle)

Cockscomb Ridge
(Half Round)

Ornamental Ridge	Product Codes	Overall Size (L x W x H mm)	Height of Crest (mm)	Weight (kg)
Cockscomb Ridge				
Universal Angle Ridge	7468	450 x 259 x 206	100	7.7
Universal Angle Ridge Block-End	7538	450 x 259 x 330	100	9.6
Half Round Ridge	7458	450 x 256 x 198	100	7.6
Half Round Ridge Block-End	7540	450 x 256 x 315	100	8.8
Three Hole Crested Ridge				
Universal Angle Ridge	7462	450 x 259 x 256	150	8.5
Universal Angle Ridge Block-End	7558	450 x 259 x 380	150	10.4
Half Round Ridge	7455	450 x 256 x 248	150	8.4
Half Round Ridge Block-End	7560	450 x 256 x 370	150	9.6
Fleur-de-Lys Ridge				
Universal Angle Ridge	7467	450 x 259 x 256	150	8.1
Universal Angle Ridge Block-End	7568	450 x 259 x 380	150	10.0
Half Round Ridge	7457	450 x 256 x 248	150	8.0
Half Round Ridge Block-End	7570	450 x 256 x 370	150	9.2

Finials	Product Codes	Overall Size (L x W x H mm)	Height of Finial (mm)	Weight (kg)
Scroll				
Universal Angle Ridge	7529	300 x 259 x 306	200	8.5
Universal Angle Ridge Block-End	7530	300 x 259 x 430	200	12.8
Half Round Ridge	7527	300 x 256 x 298	200	8.1
Half Round Ridge Block-End	7528	300 x 256 x 415	200	11.6
Short Ball Top				
Universal Angle Ridge	7485	300 x 259 x 376	270	7.4
Universal Angle Ridge Block-End	7487	300 x 259 x 500	270	11.7
Half Round Ridge	7481	300 x 256 x 368	270	7.0
Half Round Ridge Block-End	7843	300 x 256 x 485	270	10.5
Tall Ball Top				
Universal Angle Ridge	7486	300 x 259 x 476	370	7.8
Universal Angle Ridge Block-End	7488	300 x 259 x 600	370	12.1
Half Round Ridge	7482	300 x 256 x 468	370	7.4
Half Round Ridge Block-End	7484	300 x 256 x 585	370	10.9
Fleur-de-Lys				
Universal Angle Ridge	7491	300 x 259 x 526	420	7.8
Universal Angle Ridge Block-End	7492	300 x 259 x 650	420	12.1
Half Round Ridge	7489	300 x 256 x 518	420	7.4
Half Round Ridge Block-End	7490	300 x 256 x 635	420	10.9

Guidance Notes: Fixings – all Ornamental Ridges and Finials should be fixed using 100mm Stainless Steel woodscrews

ORNAMENTAL TILES

Rosemary
Clay Craftsman
6521

Rosemary
Clay Classic
6521

Heathland
6671

Concrete
Plain Tile
6251

Product codes are given with dimensions below in small text.
All dimensions are in mm (unless stated) in the order: length, width and height (where applicable).

For fittings colour range availability refer to table on page 69.

	Cambrian	Saxon 10	Landmark 10	Richmond 10/ MockBond Richmond 10	Stonewold II	Mini Stonewold/ MockBond Mini Stonewold	Natural Slate
SLATE							
Standard Slate (shown above)	4701 300 × 336	4991 418 × 330	4671 418 × 330	4871/4881 418 × 330	4161 430 × 380	4261/4271 418 × 334	1811 500 × 250
Cambrian Slate-and-a-Half	4702 300 × 486	-	-	-	-	-	-
Cambrian Left-hand Verge Slate	4703 300 × 300	-	-	-	-	-	-
Cambrian Left-hand Verge Slate-and-a-Half	4704 300 × 450	-	-	-	-	-	-
Cambrian Double Slate	4705 300 × 636	-	-	-	-	-	-
Half Slate Pair (left-hand) (right-hand)	-	4992 418 × 149 418 × 179	4672 418 × 149 418 × 179	4872 418 × 149 418 × 179	4164 430 × 171 430 × 208	4263 418 × 146 418 × 186	-
UNDERLAYS							
Spirtech 400 2S vapour permeable underlay	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m
EAVES SYSTEMS							
RedVent EavesVent System for 350-450mm	9189	9189	9189	9189	9189	9189	9189
RedVent EavesVent System for 450-600mm	9190	9190	9190	9190	9190	9190	9190
Extension Trays 350-450mm	9498	9498	9498	9498	9498	9498	9498
Extension Trays 450-600mm	9499	9499	9499	9499	9499	9499	9499
Rapid EavesVent 2-in-1 Tray	9988	9988	9988	9988	9988	9988	9988
Rapid EavesVent Rafter Roll	9984	9984	9984	9984	9984	9984	9984
RedVent 25 Over-Fascia Vent	9593	9593	9593	9593	9593	9593	9593
Underlay Support Tray	9076	9076	9076	9076	9076	9076	9076
VERGE SYSTEMS							
Ambi-Dry Verge System	9570	-	-	-	9576	9550	-
Slate 10 Dry Verge System	-	9603/9604	9603/9604	9603/9604	-	-	-
Ambi-Dry Eaves/Ridge	9491	-	-	-	9495	9552	-
Slate 10 Eaves/Ridge	-	9605	9605	9605	-	-	-
Continuous Dry Verge	-	-	-	-	-	-	9412
Rapid Verge	-	-	-	-	-	9601	-
Rapid Verge Eaves/Ridge	-	-	-	-	-	9602	-
HIP SYSTEMS							
Cambrian Mitred Hip System	9504	-	-	-	-	-	-
Dry Hip System	9048	9047	9047	9047	9046	9046	9048
Rapid Hip	9503	9524	9524	9524	9028	9028	9503
Uni-Vent Rapid Ridge/Hip System	9313	9313	9313	9313	9313	9313	9313
Rapid Hip Support Tray	9069	9069	9069	9069	9069	9069	9069
Universal Angle Hip/Ridge Junction	9520	9520	9520	9520	9520	9520	9520
Universal Angle Hip without nail holes	7777	7777	8322	7777	7777	7777	7777
Universal Angle Hip with nail holes	7778 450 × 226 × 75	7778 450 × 226 × 75	8321 450 × 226 × 75	7778 450 × 226 × 75	7778 450 × 226 × 75	7778 450 × 226 × 75	7778 450 × 226 × 75
Hip Iron	9258	9258	9258	9258	9258	9258	9258
Universal Angle Block-End Hip	7779 50 × 226 × 75	7779 50 × 226 × 75	7779 50 × 226 × 75	7779 50 × 226 × 75	7779 50 × 226 × 75	7779 50 × 226 × 75	7779 50 × 226 × 75
VALLEY SYSTEMS							
Cambrian GRP Valley	9553	-	-	-	-	-	-
125 GRP Valley	-	9595	9595	9595	9595	9595	-
Natural Slate GRP Valley	-	-	-	-	-	-	9413
Dry Valley	9575	9575	9575	9575	9575	9575	9575

	Cambrian	Saxon 10	Landmark 10	Richmond 10/ MockBond Richmond 10	Stonewold II	Mini Stonewold/ MockBond Mini Stonewold	Natural Slate
ABUTMENT SYSTEMS							
Top Edge Abutment Ventilation System	9548	9548	9548	9548	9548	9548	9548
Wakaflex Rapid Flashing (5m/10m × 280mm)	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956
Wakaflex Rapid Flashing (5m × 370mm)	9957	9957	9957	9957	9957	9957	9957
Wakaflex Rapid Flashing (5m × 180mm)	9960	9960	9960	9960	9960	9960	9960
Wakaflex Rapid Flashing (5m × 560mm)	9959	9959	9959	9959	9959	9959	9959
Wakaflex Rapid Flashing (5m × 140mm)	9953	9953	9953	9953	9953	9953	9953
Wakaflex Rapid Flashing Strip	9998	9998	9998	9998	9998	9998	9998
Wakaflex Rapid Flashing Sealant	9995	9995	9995	9995	9995	9995	9995
Wakaflex Rapid Flashing M-Glue	9929	9929	9929	9929	9929	9929	9929
Abutment GRP Secret Gutter	9596	9596	9596	9596	9596	9596	9596
Bonding Gutter	9580	9580	9580	9580	9580	9580	9580
RIDGE SYSTEMS							
DryVent Ridge System	9059	9059	9059	9059	9059	9059	9059
Uni-Vent Rapid Ridge/Hip System	9313	9313	9313	9313	9313	9313	9313
Rapid Vented Ridge	9308	9308	9308	9308	9308	9308	9308
Ridge Vent Terminal	7254 450 × 259 × 140	7254 450 × 259 × 140	8330 450 × 259 × 140	7254 450 × 259 × 140	7254 450 × 259 × 140	7254 450 × 259 × 140	7254 450 × 259 × 140
Terminal Adaptor	9175	9175	9175	9175	9175	9175	9175
Flexible Pipe (100 to 100)	9172	9172	9172	9172	9172	9172	9172
Gas Flue Ridge Terminal	7272 450 × 259 × 172	7272 450 × 259 × 172	8329 450 × 259 × 172	7272 450 × 259 × 172	7272 450 × 259 × 172	7272 450 × 259 × 172	7272 450 × 259 × 172
Gas Flue Extension Adaptor	9143	9143	9143	9143	9143	9143	9143
Gas Flue Blanking Plates	9099	9099	9099	9099	9099	9099	9099
Universal Angle Ridge	7146 450 × 259 × 106	7146 450 × 259 × 106	8319 450 × 259 × 106	7146 450 × 259 × 106	7146 450 × 259 × 106	7146 450 × 259 × 106	7146 450 × 259 × 106
Hi-Pitch Universal Angle Ridge	7151 335 × 255 × 153	7151 335 × 255 × 153	-	7151 335 × 255 × 153	-	7151 335 × 255 × 153	7151 335 × 255 × 153
Universal Angle Block-End Ridge	7518 450 × 259 × 106	7518 450 × 259 × 106	8320 450 × 259 × 106	7518 450 × 259 × 106	7518 450 × 259 × 106	7518 450 × 259 × 106	7518 450 × 259 × 106
DryVent Monoridge System	9084	9084	9084	9084	9084	9084	9084
Universal Angle Monoridge	7148 450 × 154 × 273	7148 450 × 154 × 273	8324 450 × 154 × 273	7148 450 × 154 × 273	7148 450 × 154 × 273	7148 450 × 154 × 273	7148 450 × 154 × 273
Universal Angle Block-End Monoridge Left-hand	7297	7297	8325	7297	7297	7297	7297
Universal Angle Block-End Monoridge Right-hand	7298 450 × 154 × 273	7298 450 × 154 × 273	8326 450 × 154 × 273	7298 450 × 154 × 273	7298 450 × 154 × 273	7298 450 × 154 × 273	7298 450 × 154 × 273

Product codes are given with dimensions below in small text.
All dimensions are in mm (unless stated) in the order: length, width and height (where applicable).

For fittings colour range availability refer to table on page 69.

	Cambrian	Saxon 10	Landmark 10	Richmond 10/MockBond Richmond 10	Stonewold II	Mini Stonewold/MockBond Mini Stonewold	Natural Slate
VENTILATION TILES							
RedLine Vent Tile with Underlay Seal	-	9141	9141	9141	-	9118	-
RedLine Vent Flexible Pipe	-	9172	9172	9172	-	9172	-
Natural Slate Standard Vent Tile	-	-	-	-	-	-	9414
4.5k ThruVent Tile with Underlay Seal	7705	-	-	-	-	-	-
Flexible Pipe (75 to 100)	9188	-	-	-	-	-	9188
8.8k ThruVent Tile with Underlay Seal	-	7944	7945	7943	7934	7935	-
Flexible Pipe (100 to 100)	-	9172	9172	9172	9172	9172	-
Rapid Roof Vent	-	-	-	-	-	9124	-
Rapid Roof Vent Adaptor	-	-	-	-	-	9791	-
Natural Slate Hi-Capacity Vent Tile	-	-	-	-	-	-	9416
Hi-Flow ThruVent Tile with Underlay Seal	7349	-	-	-	-	-	-
FIXING							
Slate Nails (Alum.Alloy)	-	9334 45 × 3	9334 45 × 3	9334 45 × 3	-	9338 50 × 3.35	-
Slate Nails (Stainless Steel)	-	9350 45 × 3.35*	9350 45 × 3.35*	9350 45 × 3.35*	-	-	-
Natural Slate Nails (Copper)	-	-	-	-	-	-	9417 30 × 3
Eaves Clip	9192# (inc. nails)	9293	9293	9293	9296	9186	-
Eaves Clip Nails (Alum.Alloy)	-	9338 50 × 3.35	9338 50 × 3.35	9338 50 × 3.35	9338 50 × 3.35	9338 50 × 3.35	-
Slate Clip (Alum.Alloy)	9196# (inc. nails)	9294 (inc. nails)	9294 (inc. nails)	9294 (inc. nails)	9240 (inc. nails)	9185 (inc. nails)	-
Verge Clip (Stainless Steel)	9193# (inc. nails)	9481	9481	9481	9297	9529	-
Double Battening Clip (Alum.Alloy)	-	-	-	-	-	9204 40 × 2.65	-
Storm Clip	-	-	-	-	-	9530	-
Kro-Clip	9142	9142	9142	9142	9142	9142	9142
Innofix Clip	-	9825	9825	9825	-	9824	-
BEDDED HIP AND RIDGE MECHANICAL FIXING							
Stainless Steel Batten Straps	9447	9447	9447	9447	9447	9447	9447
Universal Angle Clamping Plates	9567	9567	9567	9567	9567	9567	9567
Woodscrews (100 x 4) & Washers	9584	9584	9584	9584	9584	9584	9584

* Stainless Steel ring shanked

OTHER ACCESSORIES

	Cambrian	Saxon 10	Landmark 10	Richmond 10/MockBond Richmond 10	Stonewold II	Mini Stonewold/MockBond Mini Stonewold	Natural Slate
Rapid Roof Putty	9155	9155	9155	9155	9155	9155	9155
Rapid Roof Paint	-	9232	-	9232	-	9232	-
Cable Outlet Adaptor	-	9260/9262	9261/9262	9259/9262	9253/9262	9255/9262	-
Solar Outlet Adaptor	-	9260/9263	9261/9263	9259/9263	9253/9263	9255/9263	-
Aerial Outlet Adaptor	-	9260/9264	9261/9264	9259/9264	9253/9264	9255/9264	-

FITTINGS COLOUR RANGE – SLATES

	11 Red	30 Slate Grey	34 Terracotta	35 Rustic Brown	36 Tudor Brown	47 Brecon Grey	63 Black	64 Blue	77 Charcoal Grey
Universal Angle Hip	•	•	•	•	•	•	•	•	•
Universal Angle Block-End Hip	•	•	•	•	•	•	•	•	•
Universal Angle Mitred Hip Block-End	-	•	•	-	-	-	-	-	-
Universal Angle Ridge	•	•	•	•	•	•	•	•	•
Universal Angle Block-End Ridge	•	•	•	•	•	•	•	•	•
Universal Angle Ridge Vent Terminal	•	•	•	•	•	•	•	•	•
Universal Angle Gas Flue Ridge Terminal	-	•	•	-	•	-	-	-	-
Universal Angle Cockscomb Ridge	-	-	•	-	-	-	-	-	-
Universal Angle Cockscomb Block-End Ridge	-	-	•	-	-	-	-	-	-
Universal Angle 3-Hole Crested Ridge	-	-	•	-	-	-	-	-	-
Universal Angle 3-Hole Crested Block-End Ridge	-	-	•	-	-	-	-	-	-
Universal Angle Fleur-de-Lys Ridge	-	-	•	-	-	-	-	-	-
Universal Angle Fleur-de-Lys Block-End Ridge	-	-	•	-	-	-	-	-	-
Universal Angle Scroll Finial	-	-	•	-	-	-	-	-	-
Universal Angle Block-End Scroll Finial	-	-	•	-	-	-	-	-	-
Universal Angle Short Ball Top Finial	-	-	•	-	-	-	-	-	-
Universal Angle Block-End Short Ball Top Finial	-	-	•	-	-	-	-	-	-
Universal Angle Tall Ball Top Finial	-	-	•	-	-	-	-	-	-
Universal Angle Block-End Tall Ball Top Finial	-	-	•	-	-	-	-	-	-
Universal Angle Fleur-de-Lys Finial	-	-	•	-	-	-	-	-	-
Universal Angle Block-End Fleur-de-Lys Finial	-	-	•	-	-	-	-	-	-
Universal Angle Monoridge	•	•	•	•	•	•	•	•	•
Universal Angle Block-End Monoridge LH	•	•	•	•	•	•	•	•	•
Universal Angle Block-End Monoridge RH	•	•	•	•	•	•	•	•	•
Hi-Pitch Universal Angle Ridge	-	•	•	-	•	-	-	-	-
Plain Angle Ridge/Hip	-	•	•	-	•	-	-	-	-
Valley Trough Tile	-	•	•	-	-	-	-	-	-

Product codes are given with dimensions below in small text. All dimensions are in mm (unless stated) in the order: length, width and height (where applicable).

For fittings colour range availability refer to table on page 73.

TILES

	Rosemary Craftsman	Rosemary Classic	Heathland	Plain Tile	DuoPlain	Fontenelle
Standard Tile (shown above)	6921 265 × 165	As per colour 265 × 165	6661 263 × 165	6151 266 × 165	6101 268 × 330	5961 350 × 244
Rosemary Red	-	6501	c	-	-	-
Rosemary Russet Mix	-	6701	-	-	-	-
Rosemary Light, Medium Mixed & Blue Brindle	-	6801	-	-	-	-
Rosemary Burnt Blend//Dark Antique/Heather Brindle	-	6601	-	-	-	-
Eaves/Top Tile	6924 215 × 165	As per colour 215 × 165	6664 200 × 165	6154 200 × 165	-	-
Rosemary Red	-	6504	-	-	-	-
Rosemary Russet Mix	-	6704	-	-	-	-
Rosemary Light, Medium Mixed & Blue Brindle	-	6804	-	-	-	-
Rosemary Burnt Blend//Dark Antique/Heather Brindle	-	6604	-	-	-	-
Tile-and-a-half	6929 265 × 248	As per colour 265 × 248	6669 263 × 248	6151 266 × 165	-	5962 350 × 344
Rosemary Red	-	6509	-	-	-	-
Rosemary Russet Mix	-	6709	-	-	-	-
Rosemary Light, Medium Mixed & Blue Brindle	-	6809	-	-	-	-
Rosemary Burnt Blend//Dark Antique/Heather Brindle	-	6609	-	-	-	-
Half Tile	-	-	-	-	6105 268 × 180	5963 350 × 200
Left-hand Verge Tile	-	-	-	-	6103 268 × 222	-
Right-hand Verge Tile	-	-	-	-	6104 268 × 255	-
Left-hand Verge Tile-and-a-Half	-	-	-	-	-	5964 350 × 300

UNDERLAYS

	Rosemary Craftsman	Rosemary Classic	Heathland	Plain Tile	DuoPlain	Fontenelle
Spirtech 400 2S vapour permeable underlay	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m

EAVES SYSTEMS

	Rosemary Craftsman	Rosemary Classic	Heathland	Plain Tile	DuoPlain	Fontenelle
RedVent EavesVent System for 350-450mm	9189	9189	9189	9189	9189	9189
RedVent EavesVent System for 450-600mm	9190	9190	9190	9190	9190	9190
Extension Tray 350-450mm	9498	9498	9498	9498	9498	9498
Extension Tray 450-600mm	9499	9499	9499	9499	9499	9499
Rapid Eaves Vent 2-in-1-Tray	9988	9988	9988	9988	9988	9988
Rapid Eaves Vent Rafter Roll	9984	9984	9984	9984	9984	9984
RedVent 25 Over-Fasia Vent	9593	9593	9593	9593	9593	9593
Underlay Support Tray	9076	9076	9076	9076	9076	9076

VERGE SYSTEMS

	Rosemary Craftsman	Rosemary Classic	Heathland	Plain Tile	DuoPlain	Fontenelle
Ambi-Dry Verge System	-	-	-	-	9660	-
Ambi-Dry Eaves/Ridge System	-	-	-	-	9680	-

HIP SYSTEMS

	Rosemary Craftsman	Rosemary Classic	Heathland	Plain Tile	DuoPlain	Fontenelle
Dry Hip System	9047	9047	9047	9047	9534	-
Rapid Hip System	9524	9524	9524	9524	9562	-
Rapid Hip Support Tray	9069	9069	9069	9069	9069	9069
Uni-Vent Rapid Ridge/Hip System	9313	9313	9313	9313	9313	9313
Third Round Hip/Ridge Junction	9521	9521	9521	9521	9521	9521
Bonnets 35° - 50°	8430	8430	7671	8125	-	-
Arris Hips 35°	-	8411	-	-	-	-
Arris Hips 40°	-	8412	-	-	-	-
Arris Hips 45°	-	8413	-	-	-	-
Arris Hips 50°	-	8414	-	-	-	-
Third Round Hips (without/with nail holes)	8454/8455 300 × 233 × 70	8454/8455 300 × 233 × 70	7686/7687	8122/7411 450 × 233 × 70	8122/8211 450 × 233 × 70	8454/NA 450 × 233 × 70
Hip Iron	9528	9258	9258	9258	9258	9258
Third Round Hip Block-End	-	-	7688	7784	7404	-
Baby Ridge*	8482 300 × 140 × 70	8482 300 × 140 × 70	7675 300 × 140 × 70	7107 300 × 140 × 70	7408 300 × 140 × 70	8282 300 × 140 × 70
Pascal Roll*	-	-	-	7126 300 × 150 × 70	-	-

* Not suitable for main roof areas (should be used on porches/bay windows only)

VALLEY SYSTEMS

	Rosemary Craftsman	Rosemary Classic	Heathland	Plain Tile	DuoPlain	Fontenelle
Angular Valley Tiles 35°	8431	8431	-	-	-	-
Angular Valley Tiles 40° - 50°	8437	8437	-	-	-	-
GRP 125 Valley	9595	9595	9595	9595	9595	9595
Dry Valley	9574	9574	9574	9574	9575	9575

ABUTMENT SYSTEMS

	Rosemary Craftsman	Rosemary Classic	Heathland	Plain Tile	DuoPlain	Fontenelle
Top Edge Abutment Ventilation System	9548	9548	9548	9548	9548	9548
Wakaflex Rapid Flashing (5m/10m × 280mm)	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956
Wakaflex Rapid Flashing (5m × 370mm)	9957	9957	9957	9957	9957	9957
Wakaflex Rapid Flashing (5m × 180mm)	9960	9960	9960	9960	9960	9960
Wakaflex Rapid Flashing (5m × 560mm)	9959	9959	9959	9959	9959	9959
Wakaflex Rapid Flashing (5m × 140mm)	9953	9953	9953	9953	9953	9953
Wakaflex Rapid Flashing Strip	9998	9998	9998	9998	9998	9998
Wakaflex Rapid Flashing Sealant	9995	9995	9995	9995	9995	9995
Wakaflex Rapid Flashing M-Glue	9929	9929	9929	9929	9929	9929
Abutment GRP Secret Gutter	-	-	-	-	9596	9596
Bonding Gutter	9578	9578	9578	9578	9580	9580

RIDGE SYSTEMS

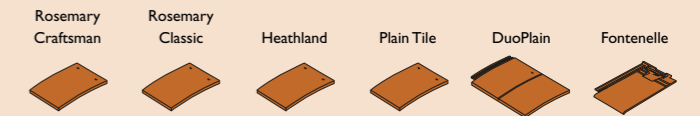|	Rosemary Craftsman	Rosemary Classic	Heathland	Plain Tile	DuoPlain	Fontenelle
DryVent Ridge System	9056	9056	9058	9058	9058	9056
Uni-Vent Rapid Ridge/Hip System	-	-	9313	9313	9313	-
Rapid Vented Ridge	-	-	9302	9302	9302	-
Ridge Vent Terminal	8486 450 × 256 × 180	8486 450 × 256 × 180	7678 450 × 256 × 150	7253 450 × 256 × 150	7402 450 × 256 × 150	8486 450 × 256 × 180
Ridge Vent Terminal Adaptor	9175	9175	9175	9175	9175	9175
Flexible Pipe (100 to 100)	9172	9172	9172	9172	9172	9172
Gas Flue Ridge Terminal	-	-	-	7241 450 × 256 × 176	-	-
Gas Flue Ridge Terminals Extension Adaptor	-	-	-	9143	-	-
Gas Flue Blanking Plates	-	-	-	9099	-	-
Half Round Ridge	8450 300 × 256 × 128	8450 300 × 256 × 128	7670 300 × 256 × 98	8101 450 × 256 × 128	8201 450 × 256 × 128	8450 300 × 256 × 128
Half Round Block-End Ridge	-	-	-	7519 450 × 256 × 98	7409 450 × 256 × 98	-
DryVent Monoridge System	-	-	9084	9084	9084	-
Half Round Monoridge	-	-	7625 450 × 154 × 273	7203 450 × 154 × 273	7403 450 × 154 × 273	-
Block-End Monoridge (left/right-hand)	-	-	-	7266/7267	7406/7407	-

Product codes are given with dimensions below in small text.
All dimensions are in mm (unless stated) in the order: length, width and height (where applicable).

For fittings colour range availability refer to table on page 73.

	Rosemary Craftsman	Rosemary Classic	Heathland	Plain Tile	DuoPlain	Fontenelle
VENTILATION TILES						
RedLine Plain Tile Vent Unit with Underlay Seal	9119	9119	9119	9119	9113	-
RedLine Vent Adaptor	9175	9175	9175	9175	-	-
Flexible Pipe (100 to 100)	9172	9172	9172	9172	9172	-
4.5k ThruVent Tile with Underlay Seal	-	-	-	7347	-	7840
ThruVent Flexible Pipe (75 to 100)	-	-	-	9188	-	9188
Rapid Roof Vent Flexible Pipe	-	-	-	9172	-	-
Rapid Roof Vent	-	-	-	9128	-	-
Rapid Roof Vent Adaptor	-	-	-	9175	-	-
INTERNAL AND EXTERNAL VERTICAL ANGLES						
External Angle 90° (left/right-hand)	8441/8440 165 × 83	8441/8440 165 × 83	7673/7674 165 × 83	8134/8135 165 × 83	-	-
Internal Angle 90° (left/right-hand)	8443/8442 164 × 92	8443/8442 164 × 92	-	-	-	-
FIXING						
Tile Nail (Alum. Alloy)	9331 40 × 2.65	9331 40 × 2.65	9331 40 × 2.65	9331 40 × 2.65	9334 45 × 3	-
Tile Nail (Stainless Steel)	-	-	-	-	9350 45 × 3.35	9638 55 × 2.65
Top Tile Clip	-	-	9282	9282	-	-
Kro-Clip	9142	9142	9142	9142	9142	9142
Innofix Clip	-	-	-	-	9825	-
BEDDED HIP AND RIDGE MECHANICAL FIXING						
Stainless Steel Batten Straps	9447	9447	9447	9447	9447	9447
Half Round Clamping Plates	9566	9566	9566	9566	9566	9566
Woodscrew (100 × 4) & Washer	9584	9584	9584	9584	9584	9584
OTHER ACCESSORIES						
Rapid Roof Putty	9155	9155	9155	9155	9155	9155
Rapid Roof Paint	-	-	-	9232	9232	-

FITTINGS COLOUR RANGE – PLAIN TILES

Colour columns:
02 Brown, 03 Antique Red, 11 Red, 12 Cotswold, 18 Hedgerow Brown, 20 Manor House Mix, 22 Wealdon Red, 23 Autumn, 25 Ember, 26 Elizabethan, 27 Natural Red, 30 Slate Grey, 34 Terracotta, 35 Rustic Brown, 36 Tudor Brown, 39 Farmhouse Red, 45 Rustic Black, 52 Breckland Brown, 53 Breckland Black, 63 Black, 64 Blue, 72 Foxwood, 77 Charcoal Grey, 78 Rustic Red, 79 Black, 80 Red, 81 Light Mixed Brindle, 82 Medium Mixed Brindle, 82 Brindle, 83 Heather Brindle, 84 Hawkhurst, 85 Albury, 87 Blue Brindle, 91 Burnt Blend, 94 Russet Mix, 95 Dark Antique, 98 Victorian

Row labels:
- Third Round Hip
- Third Round Block-End Hip
- Half Round Ridge
- Half Round Block-End Ridge
- Half Round Ridge Vent Terminal
- Half Round Gas Flue Ridge Terminal
- Half Round Cockscomb Ridge
- Half Round Cockscomb Block-End Ridge
- Half Round 3 Hole Crested Ridge
- Half Round 3 Hole Crested Block-End Ridge
- Half Round Fleur-de-Lys Ridge
- Half Round Fleur-de-Lys Block-End Ridge
- Half Round Scroll Finial
- Half Round Block-End Scroll Finial
- Half Round Short Ball Top Finial
- Half Round Block-End Short Ball Top Finial
- Half Round Tall Ball Top Finial
- Half Round Block-End Tall Ball Top Finial
- Half Round Fleur-de-Lys Finial
- Half Round Block-End Fleur-de-Lys Finial
- Half Round Monoridge
- Half Round Block-End Monoridge LH
- Half Round Block-End Monoridge RH
- Bonnet Hip
- Arris Hip
- Baby Ridge
- Pascal Roll
- Angular Valley Tile
- Club Tile
- External Angle LH 90°
- External Angle RH 90°
- Internal Angle LH 90°
- Internal Angle RH 90°

PRODUCT CODES – PROFILE TILES

Product codes are given with dimensions below in small text. All dimensions are in mm (unless stated) in the order: length, width and height (where applicable).

For fittings colour range availability refer to table on page 78.

	Landmark Double Pantile	Landmark Double Roman	Landmark Single Pantile	Grovebury	50 Double Roman	Regent	Renown	Fenland Pantile	Redland 49	Cathedral Clay Pantile	Old Hollow Clay Pantile	Postel Clay Tile
TILES												
Standard Tile (shown above)	5901 418 × 332	5201 418 × 330	5401 381 × 227	5741 418 × 332	2201 418 × 330	3401 418 × 332	1501 418 × 330	5101 381 × 227	1101 382 × 226	5921 411 × 265	5991 343 × 242	5991 315 × 230
UNDERLAYS												
Spirtech 400 2S vapour permeable underlay	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m	9202 50m × 1.5m
EAVES SYSTEMS												
RedVent Eaves Ventilation System 350-450mm	9189	9189	9189	9189	9189	9189	9189	9189	9189	9189	9189	9189
RedVent Eaves Ventilation System 450-600mm	9190	9190	9190	9190	9190	9190	9190	9190	9190	9190	9190	9190
Extension Trays 350-450mm	9498	9498	9498	9498	9498	9498	9498	9498	9498	9498	9498	9498
Extension Trays 450-600mm	9499	9499	9499	9499	9499	9499	9499	9499	9499	9499	9499	9499
Rapid EavesVent 2-in-1 Tray	9988	9988	9988	9988	9988	9988	9988	9988	9988	9988	9988	9988
Rapid EavesVent Rafter Roll	9984	9984	9984	9984	9984	9984	9984	9984	9984	9984	9984	9984
Eaves Comb Filler	9965	-	9965	9965	-	9965	-	9965	-	9965	9965	-
RedVent 25 Over-Fascia Vent	9593	9593	9593	9593	9593	9593	9593	9593	9593	9593	9593	9593
Underlay Support Tray	9076	9076	9076	9076	9076	9076	9076	9076	9076	9076	9076	9076
VERGE SYSTEMS												
Cloaked Verge System (left/right-hand)	8333/8334	8343/8344	-	7273/7274	7275/7276	7271/7272	7277/7278	-	-	5927/5928	-	-
Left-hand Verge Tile	-	-	-	-	-	-	-	-	-	5926	5992	5992
Half Tile/Two-Thirds Tile	8331 418 × 182	8341 418 × 182	-	7770 418 × 182	7730 418 × 182	7750 418 × 182	7710 418 × 182	-	-	5929	-	-
Ambi-Dry Verge System	9950	9950	-	9950	9950	9950	9950	-	-	-	-	-
Ambi-Dry Eaves/Ridge	9552	9552	-	9552	9552	9552	9552	-	-	-	-	-
Rapid Verge	9601	9601	-	9601	9601	9601	9601	-	-	-	-	-
Rapid Verge Eaves/Ridge	9602	9602	-	9602	9602	9602	9602	-	-	-	-	-
HIP SYSTEMS												
Dry Hip System	9046	9046	-	9046	9046	9046	9046	-	-	-	-	-
Rapid Hip System	9028	9028	9502	9028	9028	9028	9028	9502	9502	9870	-	-
Third Round Hip/Ridge Junction	9521	9521	9521	9521	9521	9521	9521	9521	9521	9521	-	9521
Uni-Vent Rapid Ridge/Hip System	9313	9313	9313	9313	9313	9313	9313	9313	9313	-	-	9313
Rapid Hip Support Tray	9069	9069	9069	9069	9069	9069	9069	9069	9069	-	-	9069
Third Round Hip (without/with nail holes)	8312/8311 450 × 233 × 70	8312/8311 450 × 233 × 70	8122/7411 450 × 233 × 70	8122/7411 450 × 233 × 70	8122/7411 450 × 233 × 70	8122/7411 450 × 233 × 70	8122/7411 450 × 233 × 70	8122/7411 450 × 233 × 70	8122/7411 450 × 233 × 70	8312/8311 450 × 233 × 70	-	8312/8311 450 × 233 × 70
Hip Iron	9258	9258	9258	9258	9258	9258	9258	9258	9258	9258	9258	9528
Third Round Block-End Hip	8317 450 × 233 × 70	7784 450 × 233 × 70	7784 450 × 233 × 70	7784 450 × 233 × 70	7784 450 × 233 × 70	7784 450 × 233 × 70	7784 450 × 233 × 70	7784 450 × 233 × 70	7784 450 × 233 × 70	8317 450 × 233 × 70	-	-
VALLEY SYSTEMS												
125 GRP Valley	9595	9595	9595	9595	9595	9595	9595	9595	9595	9595	9595	9595
Dry Valley	9574	9574	9574	9574	9574	9574	9574	9574	9574	9574	9574	9574
ABUTMENT SYSTEMS												
Top Edge Abutment Ventilation System	9451	9453	-	9451	9453	9452	9454	-	-	-	-	-
Wakaflex Rapid Flashing (5m/10m × 280mm)	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956	9955/9956
Wakaflex Rapid Flashing (5m × 370mm)	9957	9957	9957	9957	9957	9957	9957	9957	9957	9957	9957	9957
Wakaflex Rapid Flashing (5m × 180mm)	9960	9960	9960	9960	9960	9960	9960	9960	9960	9960	9960	9960
Wakaflex Rapid Flashing (5m × 560mm)	9959	9959	9959	9959	9959	9959	9959	9959	9959	9959	9959	9959
Wakaflex Rapid Flashing (5m × 140mm)	9953	9953	9953	9953	9953	9953	9953	9953	9953	9953	9953	9953
Wakaflex Rapid Flashing Strip	9998	9998	9998	9998	9998	9998	9998	9998	9998	9998	9998	9998
Wakaflex Rapid Flashing Sealant	9995	9995	9995	9995	9995	9995	9995	9995	9995	9995	9995	9995
Wakaflex Rapid Flashing M-Glue	9929	9929	9929	9929	9929	9929	9929	9929	9929	9929	9929	9929
Bonding Gutter	9578	9578	9578	9578	9578	9578	9578	9578	9578	9578	9578	9578

PRODUCT CODES – PROFILE TILES

Product codes are given with dimensions below in small text. All dimensions are in mm (unless stated) in the order: length, width and height (where applicable).

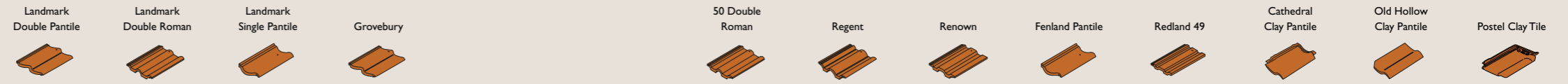For fittings colour range availability refer to table on page 78.

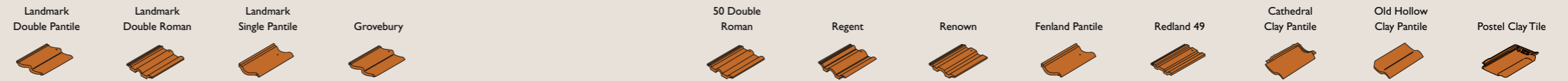|	Landmark Double Pantile	Landmark Double Roman	Landmark Single Pantile	Grovebury	50 Double Roman	Regent	Renown	Fenland Pantile	Redland 49	Cathedral Clay Pantile	Old Hollow Clay Pantile	Postel Clay Tile
RIDGE SYSTEMS												
DryVent Ridge System	9094	9095	-	9094	9095	9096	9097	-	-	-	-	-
Uni-Vent Rapid Ridge/Hip System	9313	9313	9313	9313	9313	9313	9313	9313	9313	-	-	9313
Rapid Vented Ridge System	9304	9304	9304	9304	9304	9304	9304	9304	9304	9304	-	9304
Ridge Vent Terminal	8310 450 × 256 × 150	8310 450 × 256 × 150	7253 450 × 256 × 150	7253 450 × 256 × 150	7253 450 × 256 × 150	7253 450 × 256 × 150	7253 450 × 256 × 150	7253 450 × 256 × 150	7253 450 × 256 × 150	8310 450 × 256 × 150	-	8486 450 × 256 × 150
Ridge Vent Terminal Adaptor	9175	9175	9175	9175	9175	9175	9175	9175	9175	9175	-	9175
Flexible Pipe (100 to 100)	9172	9172	9172	9172	9172	9172	9172	9172	9172	9172	-	9172
Gas Flue Ridge Terminals	-	-	7241 450 × 256 × 176	7241 450 × 256 × 176	7241 450 × 256 × 176	7241 450 × 256 × 176	7241 450 × 256 × 176	7241 450 × 256 × 176	7241 450 × 256 × 176	-	-	-
Gas Flue Extension Adaptor	-	-	9143	9143	9143	9143	9143	9143	9143	-	-	-
Gas Flue Blanking Plates	-	-	-	9098	9098	9098	9098	-	-	-	-	-
Half Round Ridge	8302 450 × 265 × 98	8302 450 × 265 × 98	8101 450 × 265 × 98	8101 450 × 265 × 98	8101 450 × 265 × 98	8101 450 × 265 × 98	8101 450 × 265 × 98	8101 450 × 265 × 98	8101 450 × 265 × 98	-	-	8450 300 × 265 × 128
Capped Half Round Ridge	-	-	-	-	-	-	-	-	-	7831 378 × 275 × 125	7835 378 × 275 × 125	-
Half Round Ridge Block-End	8303 450 × 265 × 98	8303 450 × 265 × 98	7519 450 × 265 × 98	7519 450 × 265 × 98	7519 450 × 265 × 98	7519 450 × 265 × 98	7519 450 × 265 × 98	7519 450 × 265 × 98	7519 450 × 265 × 98	-	-	-
Capped Half Round Ridge Block-End	-	-	-	-	-	-	-	-	-	7832/7833 308 × 275 × 200	-	-
DryVent Monoridge System	9080	9082	-	9080	9082	9079	9081	-	-	-	-	-
Half Round Monoridge	8304 450 × 154 × 273	8304 450 × 154 × 273	7203 450 × 154 × 273	7203 450 × 154 × 273	7203 450 × 154 × 273	7203 450 × 154 × 273	7203 450 × 154 × 273	7203 450 × 154 × 273	7203 450 × 154 × 273	-	-	-
Half Round Block-End Monoridge (left/right-hand)	8305/8306 450 × 154 × 273	8305/8306 450 × 154 × 273	7266/7267 450 × 154 × 273	7266/7267 450 × 154 × 273	7266/7267 450 × 154 × 273	7266/7267 450 × 154 × 273	7266/7267 450 × 154 × 273	7266/7267 450 × 154 × 273	7266/7267 450 × 154 × 273	-	-	-
Dentil Slip	7173	7172	7172	7173	7172	7174	-	7172	-	7172	7172	-
VENTILATION TILES												
RedLine Vent Tile with Underlay Seal	9114	9117	-	9114	9117	9115	9116	-	-	-	-	-
4.5k ThruVent Tile with Underlay Seal	-	-	7324	-	-	-	-	7328	7334	7834	7834	7845
Flexible Pipe (75 to 100)	-	-	9188	-	-	-	-	9188	9188	9188	9188	9188
8.8k ThruVent Tile with Underlay Seal	7938	7939	-	7931	7933	7930	7932	-	-	-	-	-
Flexible Pipe (100 to 100)	9172	9172	-	9172	9172	9172	9172	-	-	-	-	-
Rapid Roof Vent Flexible Pipe	9172	9172	-	9172	9172	-	9172	-	9172	-	-	-
Rapid Roof Vents	9126	9125	-	9126	9125	-	9127	-	9129	-	-	-
Rapid Roof Vent Adaptor	9791	9791	-	9791	9791	-	9791	-	9791	-	-	-
FIXING												
Tile Nails	9636 70 × 3.75	9333 60 × 3.35	9334 45 × 3	9336 70 × 3.35	9633 60 × 3.35	9337 75 × 3.75	9338 50 × 3.35	9334 45 × 3	9332 50 × 3.35	9634 60 × 265*	9638 55 × 265*	9350 45 × 3.35*
Eaves Clip	9287 (inc. nails)	9287 (inc. nails)	9178	9287 (inc. nails)	9287 (inc. nails)	9287 (inc. nails)	9286	9178	9527	9178	9178	-
Eaves Clip Nails (Alum. Alloy)	-	-	9338 50 × 3.35	-	-	-	9338 50 × 3.35	9338 50 × 3.35	9338 50 × 3.35	9338 50 × 3.35	9338 50 × 3.35	-
Tile Clip	9246	9288	9177	9246	9288	9246	9185	9177	9185	9636	9637	-
Tile Clip Nail (Alum. Alloy)	9333 60 × 3.35	9333 60 × 3.35	9333 60 × 3.35	9333 60 × 3.35	9333 60 × 3.35	9333 60 × 3.35	9333 60 × 3.35	9333 60 × 3.35	9333 60 × 3.35	-	-	-
Verge Clip (left/right-hand)	9121/9298 25 × 2.65 Clout	9297/9121 25 × 2.65 Clout	9148/9149 25 × 2.65 Clout	9121/9298 25 × 2.65 Clout	9297/9121 25 × 2.65 Clout	9121/9298 25 × 2.65 Clout	9297/9297 25 × 2.65 Clout	9148/9149 25 × 2.65 Clout	9297/9297 25 × 2.65 Clout	9632/9633 25 × 2.65 Clout	9639/9640 25 × 2.65 Clout	-
Kro-Clip	9142	9142	9142	9142	9142	9142	9142	9142	9142	9142	9142	9142
Innofix Clip	9821	9822	9821	9821	9822	9821	9823	9821	9823	-	-	-

* Stainless Steel ring shanked

PRODUCT CODES – PROFILE TILES

Product codes are given with dimensions below in small text.
All dimensions are in mm (unless stated) in the order: length, width and height (where applicable).

For fittings colour range availability refer to table below.

	Landmark Double Pantile	Landmark Double Roman	Landmark Single Pantile	Grovebury	50 Double Roman	Regent	Renown	Fenland Pantile	Redland 49	Cathedral Clay Pantile	Old Hollow Clay Pantile	Postel Clay Tile
BEDDED HIP AND RIDGE MECHANICAL FIXING												
Stainless Steel Batten Straps	9447	9447	9447	9447	9447	9447	9447	9447	9447	9447	-	9447
Half Round Clamping Plates	9566	9566	9566	9566	9566	9566	9566	9566	9566	9566	-	9566
Woodscrews (100 x 4), Washers	9584	9584	9584	9584	9584	9584	9584	9584	9584	9584	-	9584
OTHER ACCESSORIES												
Rapid Roof Putty	9155	9155	9155	9155	9155	9155	9155	9155	9155	9155	9155	9155
Rapid Roof Paint	-	-	9232	9232	-	-	-	9232	-	-	-	-
Cable Outlet Adaptor	9256/9262	9257/9262	-	9250/9262	9252/9262	9249/9262	9251/9262	-	-	-	-	-
Solar Outlet Adaptor	9256/9263	9257/9263	-	9250/9263	9252/9263	9249/9263	9251/9263	-	-	-	-	-
Aerial Outlet Adaptor	9256/9264	9257/9264	-	9250/9264	9252/9264	9249/9264	9251/9264	-	-	-	-	-

FITTINGS COLOUR RANGE – PROFILE TILES

	02 Brown	03 Antique Red	12 Cotswold	30 Slate Grey	34 Terracotta	36 Tudor Brown	43 Terracotta Brindle	44 Brown Brindle	60 Vintage Blue	63 Black	77 Charcoal Grey	78 Rustic Red	80 Terracotta	80 Vintage Red	82 Brindle
Third Round Hip	•	•	•	•	•	•	•	•	-	•	•	•	-	-	-
Third Round Block-End Hip	•	•	•	•	•	•	•	•	-	-	•	•	-	-	-
Half Round Ridge	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Half Round Block-End Ridge	•	•	•	•	•	•	•	•	-	•	•	•	•	•	•
Half Round Ridge Vent Terminal	•	•	•	•	•	•	•	•	-	•	•	•	•	-	-
Half Round Gas Flue Ridge Terminal	•	•	-	•	•	•	-	-	-	-	-	•	-	-	-
Half Round Cockscomb Ridge	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Cockscomb Block-End Ridge	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round 3-Hole Crested Ridge	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round 3-Hole Crested Block-End Ridge	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Fleur-de-Lys Ridge	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Fleur-de-Lys Block-End Ridge	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Scroll Finial	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Block-End Scroll Finial	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Short Ball Top Finial	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Block-End Short Ball Top Finial	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Tall Ball Top Finial	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Block-End Tall Ball Top Finial	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Fleur-de-Lys Finial	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Block-End Fleur-de-Lys Finial	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Half Round Monoridge	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-
Half Round Block-End Monoridge LH	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-
Half Round Block-End Monoridge RH	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-
Valley Trough Tile	-	-	-	-	•	-	-	-	-	-	-	-	-	-	-
Dentil Slip	•	•	•	•	•	•	-	-	-	•	•	-	-	-	-

Where standards are referenced, compliance is always with the latest version. Drawings shown are diagrammatic and should not be scaled. Refer to CAD drawings in DesignMaster CAD library for specific dimensions. The limitations of printing may mean a slight variation in colour. Please refer to a sample tile for best colour reference. We are committed to continually enhancing and improving our product range. We reserve the right to change product specifications. For the latest information please contact our Customer Service Hotline.

Project photographs should not be used as a guide to installation.

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Redland

Customer Service Hotline

Telephone   03705 601000
Facsimile   03705 642742
E-mail sales.redland@monier.com

Technical Solutions Hotline

Telephone   03708 702595
Facsimile   03708 702596
E-mail technical.redland@monier.com

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