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.
“At Redland it is our aim to deliver high-quality roofs that are easy to specify, buy, install and own.”
INDUSTRY SUPPORT AND TRAINING

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.

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.

Chances are you know someone who has been on one of our courses.
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 Agreement Certification, certificate number 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 Tray 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
• SPIRTECH 400 2S
  - Roll Size: 1.5 x 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 film with mesh reinforcement
**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.

**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

**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 wool.
- 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)

---

**PROPERTY INSULATION**

<table>
<thead>
<tr>
<th>Material</th>
<th>Description</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIR (Polyisocyanurate) Rigid Foam</td>
<td>Aluminium Film Surface</td>
<td>BS EN 13165</td>
</tr>
</tbody>
</table>

| Thermal Conductivity | ?? \* 0.023 W / m.K (Declared Value) | BS EN 13165 |

| Dimensions | 1170 x 570mm (Outer) | 1150 x 550mm (Fitted) |
| Covers | 0.47m² per board (Outer) | 0.47m² per board (Fitted) |
| Thickness | 100 or 140mm (+8mm board) |
| Diffuse | 50mm lip up, all edges 1500 | BS EN 13384 |
| Compressive Strength | >100kPa | BS EN 826 |
| Young’s Modulus | 6.0 N/mm² | BS EN 826-1 |
| Fire Rating | Class E | BS EN 13501-1 |

**INTERLOCK**
- Shiplap (PIR)
- Tongue & Groove Connection
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 762595
- 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

**GUARDIAN 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

**PRODUCT MEASUREMENTS (mm)**

<table>
<thead>
<tr>
<th>Q</th>
<th>R</th>
<th>Product Measurements (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>400</td>
<td>Eaves Vent 450-600mm</td>
</tr>
<tr>
<td>450</td>
<td>450</td>
<td>Eaves Vent 350-450mm</td>
</tr>
</tbody>
</table>
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.

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 x 25mm softwood clip batten should be secured through the RedVent 25 Over-Fascia Vent into the fascia board with 100 x 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 25,000mm²

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
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 10,000mm²

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 & Eaves Combs as required then nail the 2-in-1 Eaves Tray into place through the rafter bises 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

RAPID 2-IN-1 EA VES 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.

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 45º 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

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 (1979). This is supplied in every Block-End Ridge Tile pack (not applicable to Cathedral Clay Pantile).
- Finish ridge with Block-End Ridge Tile 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 a requirement, 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 a minimum of 90mm.
- Where timber capping 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 given thinner to allow for undercloak.

CONCRETE CLOAKED VERGE WITH VERTICAL TILING (REGENCY)

- Nylon Plug
- Undercloak touching inside face of Cloaked Verge Tile
- Tile batter cut short of undercloak
- Brickwork built up to underside of tile battens and turned down 30mm over undercloak
- Tile batter cut short of undercloak
- Vertical Tiling

CONCRETE CLOAKED VERGE WITH TIMBER SARKING (REGENCY)

- Nylon Plug
- Undercloak touching inside face of Cloaked Verge Tile
- Tile batter cut short of undercloak
- Brickwork built up to underside of tile battens
- Spirtech 400 2S lapped to form continuous membrane

CONCRETE CLOAKED VERGE WITH TIMBER SARKING (REGENT)

- Nylon Plug
- Undercloak touching inside face of Cloaked Verge Tile
- Tile batter cut short of undercloak
- Spirtech 400 2S underlay extending over external brickwork
- Timber sarking

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

COMPONENTS

- CLOAKED VERGE TILE
- Length 418mm (411mm for Cathedral Clay Pantile)
- Material Concrete (Clay to match Redland Cathedral Clay Pantile)
- Plug Mineral
- Nylon

ACCESSORIES

- Half-Tile (concrete tiles)
- Two-Thirds Tile (Cathedral Clay)
- Block-End Ridge Tile

CUSTOMER SERVICE HOTLINE: 03705 601000
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.

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 RapidVerge are adapted on site to fit either the left or right-hand verge
- Slate 10 DryVerge 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

COMPATIBILITY, PERFORMANCE AND COLOURS

Maximum Pitch

<table>
<thead>
<tr>
<th>Tile / Slate</th>
<th>Duo-pitch Roof</th>
<th>Mono-pitch Roof</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cambrian Slate</td>
<td>45°</td>
<td>65°</td>
</tr>
<tr>
<td>Mini Stonewold (inc MockBond)</td>
<td>45°</td>
<td>65°</td>
</tr>
<tr>
<td>Landmark Double Pantile</td>
<td>45°</td>
<td>65°</td>
</tr>
<tr>
<td>Regent</td>
<td>45°</td>
<td>65°</td>
</tr>
<tr>
<td>Rapid</td>
<td>45°</td>
<td>65°</td>
</tr>
<tr>
<td>DuoPlan</td>
<td>45°</td>
<td>65°</td>
</tr>
<tr>
<td>Slate 10 range</td>
<td>55°</td>
<td>60°</td>
</tr>
<tr>
<td>Redland 49</td>
<td>55°</td>
<td>60°</td>
</tr>
<tr>
<td>Cambrian Double Roman</td>
<td>45°</td>
<td>65°</td>
</tr>
<tr>
<td>Landmark Single Pantile / Fenland Pantile</td>
<td>45°</td>
<td>65°</td>
</tr>
</tbody>
</table>

There is no maximum pitch as varnished roofs or where lead off details are used

Minimum pitch will depend upon the minimum pitch recommended for the roof tiles

VERGE SYSTEMS

<table>
<thead>
<tr>
<th>Product Measurements (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Profile</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Cambrian Slate</td>
</tr>
<tr>
<td>Slate 10 DryVerge</td>
</tr>
<tr>
<td>Landmark Double Pantile / Fenland Pantile</td>
</tr>
<tr>
<td>Landmark Double Roman / DuoPlan</td>
</tr>
<tr>
<td>Regent</td>
</tr>
<tr>
<td>Rapid</td>
</tr>
<tr>
<td>Mini Stonewold (inc MockBond)</td>
</tr>
<tr>
<td>Stonewold II</td>
</tr>
<tr>
<td>Landmark Single Pantile / Fenland Pantile / Redland 49</td>
</tr>
</tbody>
</table>

Each Verve System contains:
- Verve Unit x 10 (MiniPVC) or for Slate 10 Verve Unit, 10 left-hand and 10 right-hand
- Verve Clips or batten end clips x 10 (Stainless Steel)

Additional Eaves/Ridge packs will be required for each installation, which includes:
- Eaves End caps x 1 (MiniPVC) + Closer Cap (Stainless Steel)
- Ridge Comb x 1 (MiniPVC) + Closer Cap (Stainless Steel)

In addition, Block-End Ridge (MiniPVC) + Ridge End Caps x 2 (Stainless Steel)
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

### 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

### 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, Feniand Pantile, Redland 49, Postel Clay Tile and Old Hollow Clay Pantile

### GUIDANCE NOTES
- The Dry Hip System is suitable for traditional timber rafters. Timber truss rafters and rigid wall 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 ribbed membrane.
- Care must be taken when using timber nailing that the hip rafter is raised using timber battens to ensure that the wood screw penetrates the hip batten by a minimum of 75mm.
- 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 45° (and an angle of 45°) where two hips intersect with a DryVent Ridge a Hip/Ridge junction should be used.
- For pitches above 45°, 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 Rollable membrane.
- 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 (Polystyrene – black)
  - Hip Batten Strips (Stainless Steel)
  - Spacer Blocks (PVC – black)
  - Head Clips (Stainless Steel)
  - Tail Clips (Aluminium)
  - 100mm x 50mm Wood Screws (Stainless Steel)
  - Barrier 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.
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.

**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 RapidVentended Ridge and UniVent 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

**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 rafter that the hip rafter is rated using timber battens to ensure that the wood screw penetrates the hip batten by a minimum of 10mm.
- All profiles require a standard 50 x 38mm hip batten, with the exception of the Slate 10 range where the batten is reduced to 30 x 38mm for pitches up to 40º and 50 x 25mm above 40º (50 x 38mm hip batten for Cambrian Slates above 25º).
- 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 60º (and plan angle is 90º) where two hips intersect with a ridge Hip/Ridge junction should be used.
- For pitches above 60º plan angles other than 90º or where the Rapid Hip System does not run finish at a conventional ridge intersection with two hips, the Hip/Ridge junction should be completed with Weatherite Rapid flashing saddle.
- Cambrian Double Slates are required on all courses on either side of each hip below 25º. At pitches greater than this Cambrian Slate-end hips can be used.
- For number of spacer blocks and maximum centres required see fixing instructions.
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

PLAN ANGLE AGAINST ROOF PITCH SHOWING APPROVED USAGE

GUILDANCE 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 60° 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) x 10
• Tail Clips and Screws (Stainless Steel) x 10
**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.

**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 25m², minimum rafter pitch is 30°**
- **Valley can accommodate a 5° pitch variance between slopes**

**CAMBRIAN GRP VALLEY (CAMBRIAN)**
- **135mm width between vertical faces of valley**
- **Cambrid Slate-and-a-half or Double Slate cut to size**
- **Granite Valley nailed to 25mm thick SW valley batten**

**COMPONENTS**
- **125 GRP VALLEY (FENLAND PANTILE)**
  - **Valley Size:** 3m x 0.4m
  - **Material:** Glass Reinforced Polyester (GRP)

**GUIDANCE NOTES**
- **Lay the 125 or Cambrian GRP Valley on timber support boards, laid between rafters on nogging.**
- **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 into tiling a lead flash or Wakaflex Rapid Flashing is required.**
- **Vapour permeable underlay can be laid either under the GRP Valley or as 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.**

**VALLEY SYSTEMS**
125 AND CAMBRIAN GRP VALLEY

**VALLEY SYSTEMS**
125 AND CAMBRIAN GRP 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

**Guidance Notes**
- Lay the Dry Valley on timber support boards laid between rafters on noggin.
- 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 board.
- 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 halve 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: 3000 x 360mm
  - Material: Glass Reinforced Polyester (GRP)

---

**Dry Valley – Low Profile**

- Valley Size: 3000 x 360mm
- Material: Glass Reinforced Polyester (GRP)

**Dry Valley – High Profile**

- Valley Size: 3000 x 360mm
- 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.

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

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

<table>
<thead>
<tr>
<th>Guttersize</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>3m x 0.21mm</td>
<td>Glass Reinforced Polyester (GRP)</td>
</tr>
</tbody>
</table>
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 interlocks removed and Left-hand Half Slates on right-hand abutments. Use Standard Slates and Right-hand Half Slates alternately on right-hand abutments
- For DuoPlain use Standard Tiles with interlocks removed and Left-hand 3/4 Tiles alternately 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°

GUIDANCE NOTES
- Fix a timber tilting fillet to support a lead or Wakaflex Rapid Flashing secret gutter outlet at base of secret gutter. Gutter outlet should be spayed out to ensure that water is discharged into gutter at eaves or cut over this immediately below side abutment, not as a concentrated flow.
- Finish underlay against wall.
- Finish tiling battens 50mm from wall and nail to final rafter.
- Mechanically fix all slates or tiles adjacent to the abutment.
- Where final rafter is less than 50mm from the wall nail a 10 x 50mm batten to the side and flush with the top of the rafter to support ends of the tiling battens.
- Should always be used in conjunction with a step and cover flashing when used with flat interlocking tiles.
- Step and cover flashing can be either lead or Wakaflex Rapid Flashing.

COMPONENTS
- Gutter Size: 3m x 0.95m
- Material: Glass Reinforced Polyester (GRP)
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.

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

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

COMPATIBILITY

• Available for all tiles and slates in the Redland range except Cathedral Clay Pantile, Fenland Pantile, Redland 49, Pastel 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

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 collages should be a minimum of 110mm 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)
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 (-40º to +100ºC)
- 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
- Suitable for use with most pitched roofing materials

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

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 Fixing 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.

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight</th>
<th>Roll/Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>140mm x 5m</td>
<td>2.4kg</td>
<td>2</td>
</tr>
<tr>
<td>180mm x 5m</td>
<td>3.1kg</td>
<td>4</td>
</tr>
<tr>
<td>280mm x 10m</td>
<td>9.4kg</td>
<td>3</td>
</tr>
<tr>
<td>370mm x 5m</td>
<td>6.3kg</td>
<td>3</td>
</tr>
<tr>
<td>560mm x 5m</td>
<td>9.6kg</td>
<td>3</td>
</tr>
</tbody>
</table>

ACCESSORIES
- Additional Butyl Strip (20mm x 2m)
- Wakaflex Rapid Flashing Fixing Glue
- Wakaflex Rapid Flashing Strip (2m)
- Wakaflex Rapid Flashing Sealant (310ml)
- Wakaflex Rapid Flashing Fixing Glue (500ml)
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.

FEATURES

• Profile Filer 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 5259:2011, therefore reducing the risk of harmful condensation in the roof
• Tried and tested and complies with BS 5534:2014 requirements for mechanical fixing

PERFORMANCE

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

COMPATIBILITY

• Available for all tiles and slates in the Redland range except Cathedral Clay Pantile, Landmark Single Pantile, Fernland Pantile, Redland 49, Postal 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

DRYVENT RIDGE SYSTEM (38MM WIDE RIDGE BATTEN)

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

<table>
<thead>
<tr>
<th>Roof Pitch (degrees)</th>
<th>Half Round</th>
<th>Grooved</th>
<th>Landmark Double Roman</th>
<th>Old Hollow pantile</th>
<th>SI Double Roman</th>
<th>Rotor</th>
<th>Universal Angle</th>
<th>Rosemary Half Round</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 39.5 58.5 70 75 78 80 82 85 10 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 60</td>
<td>38 38.5 40</td>
<td>38</td>
<td>38</td>
<td>38</td>
<td>38</td>
<td>38</td>
<td>38</td>
<td>38</td>
</tr>
</tbody>
</table>

GUIDANCE NOTES

• DryVent Ridge is suitable for traditional timber rafter/trimmer and grout setting 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 x 22mm timber batten required to construct the ridge line. This ensures that the ridge tile securing screws achieve a minimum 15mm of penetration.
• Where timber setting is used with DryVent Ridge, the underside and the apex are left short of apex to allow 15mm air gap. Counterbattens are extended to form an apex to support this ridge line batten.
• Special DryVent Ridge pitches (MIN) are required when using Ornamental Universal Angle Ridge Tiles
• Where Gas Fuel Terminals are used with DryVent Ridge, refer to guidance notes on page 47.
• If the system is to be used with natural fibre cement slates or uncoated plain tiles, please contact our Technical Solutions Hotline on 03708 702595.
• Counterbattens/crafters on adjacent roof slopes must be aligned.
• When no high level ventilation is desired the underside of rafters is kept near 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 plane 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 150mm and 75mm respectively.
• A 38mm wide timber ridge batten must be laid the height of which will depend upon the profile of the tile and the pitch of the roof (see table).

COMPONENTS

Self-tapping screws, components are in 2.7 metres ridge line (1.8 metres for Rosemary tiles).

• Profile Filer Units (PVC – grey) tile specific.
• 4 Ridge-to-Ridge Slates (either Universal Angle or Half Round) (Polypropylene – black) with Stainless Steel wood screws and clamp plates.
• 6 Stainless steel ridge batten strips 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.

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 Fire Terminals, Clay Half Round Ridge or Ornamental Ridge

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

GUIDANCE NOTES
- The Rapid Vented Ridge System is suitable for traditional timber rafters, 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 rollers will alter the number of 38 x 22mm tie battens required to construct the ridge line. This ensures that the ridge tie securing screw achieves a minimum 15mm penetration.
- Where timber rafting is used scaffolding and underlay are left short of apex to allow 10mm air gaps. Counter battens are extended to form an apex to support the ridge tie batten.
- Counter battens 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 unusual pitches please contact Technical Solutions Hotline on 03708 702595.
- Mechanically fix all tiles on the top course.

COMMENTS
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 - white) 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.
UNI-VENT RAPID RIDGE/HIP

Uni-Vent 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

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

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 fix 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 line. This ensures that the ridge tile securing screw achieves a minimum 15mm penetration.
• Where timber raftering is used the internal and external edges are left short of apex to allow 10mm air gap. Counterbattens are extended to form an apex to support the ridge line 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-Seal with Stainless Steel woodscrews and angle clamp plates.
• 17 Stainless Steel ridge batten strips 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
**RIDGECORE 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.

### 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 79

### 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 8,400mm²
- To achieve roof space ventilation of 5,000mm²/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

### Product Measurements (mm)

<table>
<thead>
<tr>
<th>Ridge Tile</th>
<th>U</th>
<th>V</th>
<th>W</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Half Round</td>
<td>98</td>
<td>256</td>
<td>256</td>
<td>450</td>
</tr>
<tr>
<td>Universal</td>
<td>106</td>
<td>255</td>
<td>450</td>
<td>52</td>
</tr>
<tr>
<td>Rosemary</td>
<td>128</td>
<td>256</td>
<td>450</td>
<td>52</td>
</tr>
</tbody>
</table>

### Guidance Notes
- Ridge Vent Terminals are suitable for timber trussed rafter and timber-sarking constructions. Where traditional timber rafter construction is used, timbers 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
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.

**FEATURES**
- The Terminal is of low resistance to prevent spillage occurring under certain wind speed conditions and complies with BS 5534:2014 requirements for mechanical fixing.
- Complies with BS 5440-2:2009. Flueing and ventilation 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 DRYVENT RIDGE SYSTEM (MINI STONEWOLD)**
- Gas Flue Extension Adaptor, System 400-25 underlay cut back by line of top batten.
- Ridge Stonework cuts must be hand-cut or fixed.
- No 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 Ridges.

**GUIDANCE NOTES**
- Gas Flue Ridge Terminals are suitable for timber trussed rafter and timber sarking constructions. Where traditional timber rafter construction is used, timbers 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 480mm 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 Ridges.

**SECTION THROUGH GAS FLUE RIDGE TERMINAL WITH DRYVENT RIDGE SYSTEM (UNDERLAY OMITTED FOR CLARITY)**
- Ridge Batten Fixing Straps
- Gas Flue Ridge Terminal
- Universal Angle Gas Flue Ridge Terminal
- Clamping Plate
- ‘R’ type adaptor (not supplied by Redland).

**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

**CUSTOMER SERVICE HOTLINE:** 03705 601000
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.

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 in compliance with the requirements for mechanical ventilation path from the roof void to the outside

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 S5 Double Roman is 47.5°; maximum pitch for Slate 10 range and Mini Stonewold is 52.5° (Stonewold II 44°)

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

COMPONENTS
- Each pack contains sufficient components to secure 4 concrete Monoridge Tiles. Each pack contains:
  - Profile Fixing Screws (Stainless Steel)
  - Monoridge 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, 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

CUSTOMER SERVICE HOTLINE: 03705 601000
WWW.REDLAND.CO.UK
**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.

**FEATURES**
- Three variants available: Interlocking, Plain Tile and DuoPlain
- Minimal visual impact
- Identical interlocking to 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 of the relevant profile
- The effective ventilation area is 6,000mm² (except DuoPlain which is 7,850mm²)

**PRESSURE/AIR FLOW RESISTANCE (Pa)**

<table>
<thead>
<tr>
<th>Tile Profile</th>
<th>15 L/min</th>
<th>30 L/min</th>
<th>40 L/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landmark Double Pantile</td>
<td>29</td>
<td>116</td>
<td>464</td>
</tr>
<tr>
<td>Landmark Double Roman/Renown</td>
<td>32</td>
<td>128</td>
<td>512</td>
</tr>
<tr>
<td>Slate 10 Range</td>
<td>32</td>
<td>128</td>
<td>512</td>
</tr>
<tr>
<td>Mini Stonewold</td>
<td>32</td>
<td>128</td>
<td>512</td>
</tr>
<tr>
<td>DuoPlain Plain Tile</td>
<td>34</td>
<td>136</td>
<td>544</td>
</tr>
</tbody>
</table>

**COMPATIBILITY**

**REDLINE VENT COLOURS (INTERLOCKING TILES)**

<table>
<thead>
<tr>
<th>Tile Colour</th>
<th>Vent Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 Tuscan Red</td>
<td>38 Red</td>
</tr>
<tr>
<td>30 Slate Grey</td>
<td>30 Slate Grey</td>
</tr>
<tr>
<td>34 Terracotta</td>
<td>34 Terracotta</td>
</tr>
<tr>
<td>36 Tudor Brown</td>
<td>36 Tudor Brown</td>
</tr>
<tr>
<td>38 Flume Red</td>
<td>38 Red</td>
</tr>
<tr>
<td>39 Farmhouse Red</td>
<td>34 Terracotta</td>
</tr>
<tr>
<td>40 Rustic Brown</td>
<td>40 Rustic Brown</td>
</tr>
<tr>
<td>41 Terracotta Brindle</td>
<td>41 Terracotta Brindle</td>
</tr>
<tr>
<td>43 Brown Brindle</td>
<td>43 Brown Brindle</td>
</tr>
<tr>
<td>45 Rustic Black</td>
<td>45 Rustic Black</td>
</tr>
<tr>
<td>47 Breckland Brown</td>
<td>36 Tudor Brown</td>
</tr>
<tr>
<td>52 Breckland Black</td>
<td>30 Slate Grey</td>
</tr>
<tr>
<td>53 Breckland Grey</td>
<td>36 Tudor Brown</td>
</tr>
<tr>
<td>56 Black</td>
<td>43 Terracotta</td>
</tr>
<tr>
<td>61 Black</td>
<td>38 Flume Red</td>
</tr>
<tr>
<td>70 Charcoal Grey</td>
<td>77 Charcoal Grey</td>
</tr>
<tr>
<td>71 Charcoal Grey</td>
<td>77 Charcoal Grey</td>
</tr>
<tr>
<td>79 Rustic Red</td>
<td>79 Rustic Red</td>
</tr>
</tbody>
</table>

**COMPATIBILITY**

**REDLINE VENT COLOURS (PLAIN TILES)**

<table>
<thead>
<tr>
<th>Tile Colour</th>
<th>Vent Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 Brown</td>
<td>02 Brown</td>
</tr>
<tr>
<td>03 Antique Red</td>
<td>03 Antique Red</td>
</tr>
<tr>
<td>10 Cobalt Blue</td>
<td>12 Cobalt Blue</td>
</tr>
<tr>
<td>16 Heidelberg Brown</td>
<td>18 Heidelberg Brown</td>
</tr>
<tr>
<td>27 Natural Red</td>
<td>27 Natural Red</td>
</tr>
<tr>
<td>30 Slate Grey</td>
<td>30 Slate Grey</td>
</tr>
<tr>
<td>34 Terracotta</td>
<td>34 Terracotta</td>
</tr>
<tr>
<td>36 Tudor Brown</td>
<td>34 Terracotta</td>
</tr>
<tr>
<td>39 Farmhouse Red</td>
<td>34 Terracotta</td>
</tr>
<tr>
<td>52 Breckland Brown</td>
<td>34 Terracotta</td>
</tr>
<tr>
<td>53 Breckland Black</td>
<td>30 Slate Grey</td>
</tr>
<tr>
<td>70 Rustic Red</td>
<td>79 Rustic Red</td>
</tr>
<tr>
<td>78 Natural Red</td>
<td>78 Natural Red</td>
</tr>
</tbody>
</table>

**COMPATIBILITY**

**REDLINE VENT COLOURS (DUOPLAIN TILES)**

<table>
<thead>
<tr>
<th>Tile Colour</th>
<th>Vent Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 Manor House Tile</td>
<td>20 Manor House Tile</td>
</tr>
<tr>
<td>22 Weathered Red</td>
<td>03 Antique Red</td>
</tr>
<tr>
<td>23 Autumn</td>
<td>23 Autumn</td>
</tr>
<tr>
<td>25 British</td>
<td>25 British</td>
</tr>
<tr>
<td>26 Blithewold</td>
<td>26 Blithewold</td>
</tr>
<tr>
<td>68 Red</td>
<td>68 Red</td>
</tr>
<tr>
<td>81 Light Mixed Brindle</td>
<td>81 Light Mixed Brindle</td>
</tr>
<tr>
<td>82 Medium Mixed Brindle</td>
<td>82 Medium Mixed Brindle</td>
</tr>
<tr>
<td>87 Brique</td>
<td>87 Brique</td>
</tr>
<tr>
<td>90 Rustic Brown</td>
<td>90 Rustic Brown</td>
</tr>
<tr>
<td>91 Burnt Blend</td>
<td>91 Burnt Blend</td>
</tr>
<tr>
<td>94 Autumn</td>
<td>94 Autumn</td>
</tr>
<tr>
<td>95 Dark Antique</td>
<td>95 Dark Antique</td>
</tr>
<tr>
<td>96 Weathered Brindle</td>
<td>96 Weathered Brindle</td>
</tr>
<tr>
<td>98 Harrow</td>
<td>98 Harrow</td>
</tr>
<tr>
<td>99 Autumn</td>
<td>99 Autumn</td>
</tr>
<tr>
<td>74 Everwood</td>
<td>74 Everwood</td>
</tr>
<tr>
<td>75 Farmhouse</td>
<td>75 Farmhouse</td>
</tr>
</tbody>
</table>

**COMPATIBILITY**

**REDLINE VENT TILE CONNECTED TO FLEXIBLE PIPE (REGENT)**

- DuoPlain Underlay Seal & RedLine Vent Tile for roof space ventilation where insulation is between the rafters ensures the airflow path is clear of the insulation and the roof space ventilation should be maintained with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof

**COMPONENTS**
- RedLine Vent Tile for roof space ventilation
- 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 ensures the airflow path is clear of the insulation and the roof space ventilation should be maintained with BS 5250:2011, therefore reducing the risk of harmful condensation in the roof
- RedLine Vents are not suitable for hot flue gases, please use the Gas Flue Ridge Terminal
- RedLine Vent Tiles must be laid adjacent to one another
- For soil pipe termination do not install within 3 metres horizontally and 150mm vertically of an opening e.g. roof window and roof space ventilation
- When connected to a condensation trap is fitted

**ACCEESORIES**
- RedLine Adaptor to connect to a 110mm soil vent or mechanical extract pipe
- Tile adaptor
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.

**FEATURES**
- Vents 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 ventilation

**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

**PRODUCT MEASUREMENTS (MM)**

<table>
<thead>
<tr>
<th>Tile Profile</th>
<th>Length</th>
<th>Width</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5k ThruVent Tile (A=180, B=120, C=175, D=85)</td>
<td>500</td>
<td>100</td>
<td>0.9</td>
</tr>
<tr>
<td>4.5k</td>
<td>1000</td>
<td>100</td>
<td>0.45</td>
</tr>
<tr>
<td>6.8k</td>
<td>500</td>
<td>75</td>
<td>1.76</td>
</tr>
<tr>
<td>8.8k</td>
<td>1000</td>
<td>88</td>
<td>0.88</td>
</tr>
<tr>
<td>8.8k</td>
<td>25000</td>
<td>25</td>
<td>0.35</td>
</tr>
</tbody>
</table>

**THRUVENT VENTILATION TILES**

**FEATURES**
- Can also be used for:
  - Performance
  - Compatibility
  - Features

**PRODUCT MEASUREMENTS (MM)**

<table>
<thead>
<tr>
<th>Tile Profile</th>
<th>Length</th>
<th>Width</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5k ThruVent Tile (A=180, B=120, C=175, D=85)</td>
<td>500</td>
<td>100</td>
<td>0.9</td>
</tr>
<tr>
<td>4.5k</td>
<td>1000</td>
<td>100</td>
<td>0.45</td>
</tr>
<tr>
<td>6.8k</td>
<td>500</td>
<td>75</td>
<td>1.76</td>
</tr>
<tr>
<td>8.8k</td>
<td>1000</td>
<td>88</td>
<td>0.88</td>
</tr>
<tr>
<td>8.8k</td>
<td>25000</td>
<td>25</td>
<td>0.35</td>
</tr>
</tbody>
</table>

**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 other they should be staggered on alternate courses.
- Where ThruVent Tiles are used in combination with insulation between the rafters, a clear air gap should be maintained at the insulation layer by using the correct flashing.
- ThruVent Tiles are not suitable for hot flue gases, please use the Gas Flue Ridge Terminal (see page 44).
- Plan Tile ThruVents are installed to 100mm gauge only.
- For soil pipe termination do not install within 3 metres horizontally and 150mm vertically of an opening e.g. roof windows and roof space ventilation.
- When connected to cappings or gutters it is recommended that water is left to accumulate at the top of the capping to prevent any potential water ingress.
- 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 eaves 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 match the colour of the tile base.
- The Plain Tile ThruVent consists of a three tile moulded unit with a bespoke batten and clips.
- Each ThruVent Tile is supplied with a Underlay Seal.

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

FEATURES
• Discrete design matches the aesthetics of the roof
• Excellent weather performance
• Rigid construction, high quality
• Guaranteed weather tight 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

<table>
<thead>
<tr>
<th>Roof Space Ventilation (mm²/m)</th>
<th>Vent Space (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interlocking (except Redland 49)</td>
<td>5,000 10,000 20,000 0.4</td>
</tr>
<tr>
<td>Redland 49 (inc Adaptor)</td>
<td>5,000 10,000 20,000 0.3</td>
</tr>
<tr>
<td>Plain Tile</td>
<td>5,000 10,000 20,000 0.26</td>
</tr>
</tbody>
</table>

GUIDANCE NOTES
• Place the vent tile in position so that the moulded underside lip 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 lug is 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 x Vent
• 1 x Underlay Seal
• 1 x Pipe Adaptor (Redland 49 Vent only) Also available:
• Interlocking Tiles Pipe Adaptor or Plain Tiles Pipe Adaptor
• Flexible Pipe

RAPID ROOF VENT TILE COLOURS

<table>
<thead>
<tr>
<th>Tile Type</th>
<th>Tile Colour</th>
<th>Vent Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini Stonewold / Grovebury / Renown / 50 Double Roman</td>
<td>385 53 30 Slate Grey</td>
<td>30 Grey 35 Brown</td>
</tr>
<tr>
<td>36 Tudor Brown</td>
<td>34 Terracotta</td>
<td>36 Brown</td>
</tr>
<tr>
<td>37 Farmhouse Red</td>
<td>34 Terracotta</td>
<td>36 Brown</td>
</tr>
<tr>
<td>35 Breckland Black</td>
<td>30 Slate Grey</td>
<td>36 Brown</td>
</tr>
<tr>
<td>Redland 49</td>
<td>32 Breckland Brown</td>
<td>34 Terracotta</td>
</tr>
<tr>
<td>36 Brown</td>
<td>34 Terracotta</td>
<td>36 Brown</td>
</tr>
<tr>
<td>330 Mini Stonewold</td>
<td>34 Terracotta</td>
<td>36 Brown</td>
</tr>
<tr>
<td>36 Brown</td>
<td>34 Terracotta</td>
<td>36 Brown</td>
</tr>
<tr>
<td>332 Grovebury</td>
<td>30 Grey</td>
<td>36 Brown</td>
</tr>
<tr>
<td>334</td>
<td>34 Terracotta</td>
<td>36 Brown</td>
</tr>
<tr>
<td>330</td>
<td>30 Grey</td>
<td>36 Brown</td>
</tr>
<tr>
<td>332</td>
<td>34 Terracotta</td>
<td>36 Brown</td>
</tr>
<tr>
<td>334</td>
<td>30 Grey</td>
<td>36 Brown</td>
</tr>
<tr>
<td>330</td>
<td>34 Terracotta</td>
<td>36 Brown</td>
</tr>
<tr>
<td>332</td>
<td>30 Grey</td>
<td>36 Brown</td>
</tr>
<tr>
<td>334</td>
<td>30 Grey</td>
<td>36 Brown</td>
</tr>
</tbody>
</table>

CUSTOMER SERVICE HOTLINE: 03705 601000 WWW.REDLAND.CO.UK
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.

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, Savin 10 Slate, Landmark 10 Slate, Richmond 10 Slate, ModBond Richmond 10 Slate, Mini Stonewold, and ModBond 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

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 90° 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

ACCESSORIES

WWW.REDLAND.CO.UK
CUSTOMER SERVICE HOTLINE: 03705 601000
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/m²
- 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

GUIDANCE NOTES
- All tiles must be dry and thoroughly cleaned of loose particles before installation begins.
- Should be used immediately after opening air tight bags.
- Disposable plastic gloves should be worn when handling.
- Withstands temperatures from -40°C to +80°C. Works best at 20°C. Store out of direct sunlight and excessive heat.
- Use within one year of production.

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

GUIDANCE NOTES
- Before use ensure the tile is dry and clean.
- Stir well before use and apply with a brush.
- Ensure rain is not imminent.
- The temperature should be at least 20°C during application.
- Brushes can be washed with tap water.

COMPONENTS
- Contents (one pot) 2.5 litres
- Coverage Approximately 5m²

WWW.REDLAND.CO.UK CUSTOMER SERVICE HOTLINE 03705 601000

ACCESSORIES
RAPID ROOF PUTTY

ACCESSORIES
RAPID ROOF PAINT
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: Groovebury, 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

GUIDANCE NOTES
• Insert the clip onto the cut edge of the tile by pushing the jaws of the clip onto the tile and then using a hammer to gently fully engage the clip.
• Wrap the attached wire around a clout nail fixed into either a rafter or batten.
• The nail position must be above the clip position with the distance between kept as short as possible with the wire pulled tight.

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

GUIDANCE NOTES
• Hook clip over tile interlock and then push under batten.

COMPONENTS
• Material: Stainless Steel
• Size: 30mm long clip with 380mm attached wire
• Box Quantity: 500

ACCESSORIES

KRO-CLIP

INNOFIX CLIP

WWW.REDLAND.CO.UK
CUSTOMER SERVICE HOTLINE: 03706 601000
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 weather tight system.

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
• Weather tight 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 allow condensate to drain away
• IndaX 250 modules fulfil the same protective functions as roof tiles, i.e. weather tightness and resistance to wind uplift. Modules can withstand loads up to 550kg/m². 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, weather tightness 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

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

GUIDANCE NOTES

• Modules can be installed from left to right, 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, ensures 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.

APPROVED PRODUCT

INDAX PV SYSTEM

PHOTOVOLTAIC ROOFING SYSTEMS

WWW.REDLAND.CO.UK

CUSTOMER SERVICE HOTLINE 03705 601000

PHOTOVOLTAIC ROOFING SYSTEMS

62

63
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.

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 40º pitch

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.

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 40º pitch

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.

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 40º pitch

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.

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 40º pitch

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.

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 40º pitch

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.

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 40º pitch

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.

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 40º pitch

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.

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 40º pitch

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.

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 40º pitch

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.

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 40º pitch
PRODUCT CODES – SLATES

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.

VENTILATION TILES

- Redline Vent Flexible Pipe
- Redline Vent Tile with Underlay Seal
- Rapid Roof Vent Adaptor
- Rapid Roof Vent
- Flexible Pipe (100 to 100)
- 8.8k ThruVent Tile with Underlay Seal
- Flexible Pipe (75 to 100)
- Natural Slate Standard Vent Tile
- Hi-Flow ThruVent Tile with Underlay Seal
- Natural Slate Hi-Capacity Vent Tile

FIXING

- Slate Nails (Alum. Alloy)
- Slate Nails (Stainless Steel)
- Natural Slate Nails (Copper)
- Sawn Clip
- Sawn Clip Nails (Alum. Alloy)
- Slate Clip (Alum. Alloy)
- Sawn Clip (Stainless Steel)
- Double Battening Clip (Alum. Alloy)
- Storm Clip
- Row Clip
- Irisole Clip

BEDDING UP AND RIDGE MECHANICAL FIXING

- Universal Angle P hateful Strong
- Universal Angle Clamping Plates
- Wood screws (10G x 1.25"") (Mild Steel)

EDUCATIONAL FLEXIBLE PIPE

- RedLine Vent Flexible Pipe
- RedLine Vent Tile with Underlay Seal
- Rapid Roof Vent Adaptor
- Rapid Roof Vent
- Flexible Pipe (100 to 100)
- 8.8k ThruVent Tile with Underlay Seal
- Flexible Pipe (75 to 100)
- Natural Slate Standard Vent Tile
- Hi-Flow ThruVent Tile with Underlay Seal
- Natural Slate Hi-Capacity Vent Tile

OTHER ACCESSORIES

- RedLine Vent Flexible Pipe
- RedLine Vent Tile with Underlay Seal
- Rapid Roof Vent Adaptor
- Solar Outlet Adaptor
- Aerial Outlet Adaptor

FITTINGS COLOUR RANGE – SLATES

CUSTOMER SERVICE HOTLINE: 03705 601000
WWW.REDLAND.CO.UK
### PRODUCT CODES – PLAIN TILES

**TILES**

<table>
<thead>
<tr>
<th>Rosemary Craftsman</th>
<th>Rosemary Classic</th>
<th>Headbond</th>
<th>Rain Tile</th>
<th>DualPlan</th>
<th>Foremanite</th>
</tr>
</thead>
</table>

**PRODUCT CODES – PLAIN TILES**

**EAVES SYSTEMS**

- Rosemary Light, Medium Mixed & Blue Brindle
- Rosemary Burnt/Clay/Clay Antiqua/Black Breccia

**Extension Tray 350-450mm**

<table>
<thead>
<tr>
<th>8434</th>
<th>As per colour</th>
<th>6644</th>
<th>4151</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>450</td>
<td>275 x 190</td>
<td>275 x 190</td>
<td>275 x 190</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Third Round Hip/Ridge Junction**

<table>
<thead>
<tr>
<th>8430</th>
<th>As per colour</th>
<th>6644</th>
<th>4151</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>450</td>
<td>275 x 190</td>
<td>275 x 190</td>
<td>275 x 190</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Valley Systems**

- Angular Valley Tiles 35˚
- GRP 135 Valley 45˚
- Rosemary Light, Medium Mixed & Blue Brindle
- Rosemary Burnt/Clay/Clay Antiqua/Black Breccia

**RIDGE SYSTEMS**

- Rosemary Light, Medium Mixed & Blue Brindle
- Rosemary Burnt/Clay/Clay Antiqua/Black Breccia

**UNDERWAYS**

- Rosemary Craftsman
- Rosemary Classic
- Headbond
- Rain Tile
- DualPlan
- Foremanite

**VORTEX SYSTEMS**

- Anti-Dry Vent System
- Anti-Dry Edge/Ridge System

**HIP SYSTEMS**

- Dry Vent System
- Rapid Hip System
- Anti-Vent Rapid Ridge Hip System
- Third Round Hip/Ridge Junction

**DRAINS SYSTEMS**

- Rosemary Light, Medium Mixed & Blue Brindle
- Rosemary Burnt/Clay/Clay Antiqua/Black Breccia

### Notes

- Not suitable for main roof area (should be used on perfectly flat windows only)
### VENTILATION TILES

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9119</td>
<td>RedLine Plan Tile Vent Unit w/ Underlay Seal</td>
</tr>
<tr>
<td>9175</td>
<td>Top Tile Clip</td>
</tr>
<tr>
<td>9176</td>
<td>Top Tile Clip</td>
</tr>
<tr>
<td>9172</td>
<td>Top Tile Clip</td>
</tr>
<tr>
<td>9173</td>
<td>Top Tile Clip</td>
</tr>
<tr>
<td>9171</td>
<td>Top Tile Clip</td>
</tr>
</tbody>
</table>

### OTHER ACCESSORIES

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9155</td>
<td>Flexible Pipe (100 to 100)</td>
</tr>
<tr>
<td>9156</td>
<td>RedLine Vent Adaptor</td>
</tr>
<tr>
<td>9157</td>
<td>RedLine Plain Tile Vent Unit w/ Underlay Seal</td>
</tr>
</tbody>
</table>

### FIXING

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9221</td>
<td>Tile Nail (Alum. Alloy)</td>
</tr>
<tr>
<td>9222</td>
<td>Tile Nail (Stainless Steel)</td>
</tr>
<tr>
<td>9223</td>
<td>Top Tile Clip</td>
</tr>
<tr>
<td>9224</td>
<td>Top Tile Clip</td>
</tr>
</tbody>
</table>

### BEDDING & RISE MECHANICAL FIXINGS

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9447</td>
<td>Stainless Steel Button Strap</td>
</tr>
<tr>
<td>9584</td>
<td>Half Round Cockscomb Block End Ridge</td>
</tr>
<tr>
<td>9566</td>
<td>Half Round Block End Short Ball Top Finial</td>
</tr>
<tr>
<td>9585</td>
<td>Half Round Block End Half Ball Top Finial</td>
</tr>
<tr>
<td>9586</td>
<td>Half Round Block End Half Ball Top Finial</td>
</tr>
<tr>
<td>9587</td>
<td>Half Round Block End Half Ball Top Finial</td>
</tr>
<tr>
<td>9588</td>
<td>Half Round Block End Half Ball Top Finial</td>
</tr>
<tr>
<td>9589</td>
<td>Half Round Block End Half Ball Top Finial</td>
</tr>
</tbody>
</table>

### OTHER ACCESSORIES

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9158</td>
<td>Rapid Roof Vent</td>
</tr>
</tbody>
</table>
# PRODUCT CODES – PROFILE TILES

Product codes are given with dimensions below in small text. All dimensions are in mm (where stated). For fitting & colour range availability refer to page 76.

## TILES

<table>
<thead>
<tr>
<th>Landmark Double Roman</th>
<th>Landmark Double Rustic</th>
<th>Landmark Single Parapet</th>
<th>Groinbury</th>
<th>50 Double Roman</th>
<th>Regent</th>
<th>Regulier</th>
<th>Ferrar Rustic</th>
<th>Ferrarn</th>
<th>Redtan 9</th>
<th>Castellani Clay Parapet</th>
<th>Old Hollow Clay Parapet</th>
<th>Panell Clay Tile</th>
</tr>
</thead>
<tbody>
<tr>
<td>5401</td>
<td>5201</td>
<td>5401</td>
<td>5741</td>
<td>2201</td>
<td>3401</td>
<td>1501</td>
<td>1905</td>
<td>1909</td>
<td>5201</td>
<td>5911</td>
<td>5911</td>
<td>5911</td>
</tr>
<tr>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
<td>450 x 150</td>
</tr>
</tbody>
</table>

## UNDERLAYS

<table>
<thead>
<tr>
<th>Standard Tile (shown above)</th>
<th>Quartz® 48® 20” vapour permeable underlay</th>
</tr>
</thead>
<tbody>
<tr>
<td>9203 9203 9203 9203 9203</td>
<td>9203 9203 9203 9203 9203</td>
</tr>
<tr>
<td>50mm x 500mm</td>
<td>50mm x 500mm</td>
</tr>
</tbody>
</table>

## DAVIES SYSTEMS

<table>
<thead>
<tr>
<th>Rapid Verge</th>
<th>Cloaked Verge System (left/right)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8343/8344</td>
<td>8333/8334</td>
</tr>
<tr>
<td>7250/7251</td>
<td>7250/7253</td>
</tr>
<tr>
<td>7250/7259</td>
<td>7250/7259</td>
</tr>
</tbody>
</table>

## VERSA SYSTEMS

<table>
<thead>
<tr>
<th>Underlay Support Tray</th>
</tr>
</thead>
<tbody>
<tr>
<td>9203</td>
</tr>
<tr>
<td>9203</td>
</tr>
<tr>
<td>9203</td>
</tr>
<tr>
<td>9203</td>
</tr>
</tbody>
</table>

## HIP SYSTEMS

<table>
<thead>
<tr>
<th>Half Tile/Two-Fold Tile</th>
</tr>
</thead>
<tbody>
<tr>
<td>5201</td>
</tr>
<tr>
<td>5201</td>
</tr>
<tr>
<td>5201</td>
</tr>
<tr>
<td>5201</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Antis-Dry Verge Spher</th>
<th>Repitch Verge</th>
</tr>
</thead>
<tbody>
<tr>
<td>9551</td>
<td>9551</td>
</tr>
<tr>
<td>9551</td>
<td>9551</td>
</tr>
<tr>
<td>9551</td>
<td>9551</td>
</tr>
</tbody>
</table>

## VALLEY SYSTEMS

<table>
<thead>
<tr>
<th>Old Hollow Valley</th>
</tr>
</thead>
<tbody>
<tr>
<td>9203</td>
</tr>
<tr>
<td>9203</td>
</tr>
<tr>
<td>9203</td>
</tr>
</tbody>
</table>

## ARMATURE SYSTEMS

<table>
<thead>
<tr>
<th>Top Edge Alukast Ventilation System</th>
</tr>
</thead>
<tbody>
<tr>
<td>9451</td>
</tr>
<tr>
<td>9451/9454</td>
</tr>
<tr>
<td>9451/9456</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Valleyfast Rapid Flashing (50/100 x 260mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9523</td>
</tr>
<tr>
<td>9523/9524</td>
</tr>
<tr>
<td>9523/9526</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Valleyfast Rapid Flashing (50/100 x 140mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9523</td>
</tr>
<tr>
<td>9523/9524</td>
</tr>
<tr>
<td>9523/9526</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Valleyfast Rapid Flashing (50/100 x 50mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9523</td>
</tr>
<tr>
<td>9523/9524</td>
</tr>
<tr>
<td>9523/9526</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Valleyfast Rapid Flashing (50/100 x 32mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9523</td>
</tr>
<tr>
<td>9523/9524</td>
</tr>
<tr>
<td>9523/9526</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Valleyfast Rapid Flashing (50/100 x 20mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9523</td>
</tr>
<tr>
<td>9523/9524</td>
</tr>
<tr>
<td>9523/9526</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Valleyfast Rapid Flashing (50/100 x 12mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9523</td>
</tr>
<tr>
<td>9523/9524</td>
</tr>
<tr>
<td>9523/9526</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Valleyfast Rapid Flashing (50/100 x 6mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9523</td>
</tr>
<tr>
<td>9523/9524</td>
</tr>
<tr>
<td>9523/9526</td>
</tr>
</tbody>
</table>

## CUSTOMER SERVICE HOTLINE: 03705 601000
WWW.REDLAND.CO.UK

PRODUCT CODES – PROFILE TILES
### PRODUCT CODES – PROFILE TILES

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>REDLAND</strong></td>
<td>9094</td>
<td>9095</td>
<td>-</td>
<td>9094</td>
<td>9095</td>
<td>9096</td>
<td>9097</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ridge Systems</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Drylined Ridge System</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ridgevent / Rapridge Hip System</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ridgevent Terminal</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ridgevent Terminal Adaptor Flexible Pipe (108 to 100)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>VENTILATION TILES</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Half Round Ridge</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Capped Half Round Ridge</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Half Round Monoridge System</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Half Round Monoridge (Right-hand)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Half Round Block End Monoridge (Right-hand)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Half Round Block End Monoridge (Left-hand)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Half Round Block End Monoridge (Right-hand)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Half Round Block End Monoridge (Left-hand)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>FIXING</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Tile Nails</td>
<td>926 (0.315 x 0.315)</td>
<td>9232 (0.315 x 0.315)</td>
<td>924 (0.315 x 0.315)</td>
<td>924 (0.315 x 0.315)</td>
<td>9227 (0.315 x 0.315)</td>
<td>9228 (0.315 x 0.315)</td>
<td>9234 (0.315 x 0.315)</td>
<td>9232 (0.315 x 0.315)</td>
<td>9220 (0.315 x 0.315)</td>
<td>9220 (0.315 x 0.315)</td>
<td>9220 (0.315 x 0.315)</td>
<td>9220 (0.315 x 0.315)</td>
<td>9220 (0.315 x 0.315)</td>
</tr>
<tr>
<td><strong>EXTRA</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Eaves Clip</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
<td>9267 (0.200 x 0.200)</td>
</tr>
<tr>
<td><strong>COLOUR RANGE</strong></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
### 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.

### BEDDED HIP AND RIDGE MECHANICAL FIXING

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9447</td>
<td>9447</td>
<td>9447</td>
<td>9447</td>
<td>9447</td>
<td>9447</td>
<td>9447</td>
<td>9447</td>
<td>9447</td>
<td>9447</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>9566</td>
<td>9566</td>
<td>9566</td>
<td>9566</td>
<td>9566</td>
<td>9566</td>
<td>9566</td>
<td>9566</td>
<td>9566</td>
<td>9566</td>
<td>-</td>
<td>9566</td>
</tr>
<tr>
<td>9584</td>
<td>9584</td>
<td>9584</td>
<td>9584</td>
<td>9584</td>
<td>9584</td>
<td>9584</td>
<td>9584</td>
<td>9584</td>
<td>9584</td>
<td>-</td>
<td>9584</td>
</tr>
</tbody>
</table>

### OTHER ACCESSORIES

<table>
<thead>
<tr>
<th>Rapid Roof Pathy</th>
<th>Rapid Roof Rail</th>
</tr>
</thead>
<tbody>
<tr>
<td>9155</td>
<td>9155</td>
</tr>
<tr>
<td>9155</td>
<td>9155</td>
</tr>
<tr>
<td>9155</td>
<td>9155</td>
</tr>
<tr>
<td>9155</td>
<td>9155</td>
</tr>
<tr>
<td>9155</td>
<td>9155</td>
</tr>
<tr>
<td>9155</td>
<td>9155</td>
</tr>
<tr>
<td>9155</td>
<td>9155</td>
</tr>
</tbody>
</table>

### FITTINGS COLOUR RANGE – PROFILE TILES

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>02 Brown</td>
<td>03 Antique Red</td>
<td>12 Cotswold</td>
<td>30 Slate Grey</td>
<td>34 Terracotta</td>
<td>43 Terracotta Brindle</td>
<td>60 Vintage Blue</td>
<td>63 Black</td>
<td>77 Charcoal Grey</td>
<td>78 Rustic Red</td>
<td>80 Terracotta</td>
<td>80 Vintage Red</td>
<td>82 Brindle</td>
<td>9250/9262</td>
<td>9252/9262</td>
<td>9257/9264</td>
<td>9260/9262</td>
<td>9251/9264</td>
<td>9252/9264</td>
<td>9249/9262</td>
<td>9251/9264</td>
<td>9252/9262</td>
<td>9260/9262</td>
</tr>
</tbody>
</table>

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.

Trademarks: The following are United Kingdom trademarks and are registered in the name of Monier Redland Limited or other business units of BMBG: Ambi-Dry, Cambrian, ColourFusion, Craftsman, DuoPlain, Farmhouse, FixMaster, Fontenelle, Grovebury, Heather, Heathland, InDaX, Landmark, Langdale, QuantMaster, Redland, Redland Cambrian, Redland Richmond, Redland Technical Solutions, RedLine, RedVent, Regent, Rosemary, Saxon, SpecMaster, Spirtech, Stonewold, Wakaflex.
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