



PERMAVENT.CO.UK

# FITTING GUIDE

# PERMAVENT

EASY ROOF SYSTEM

# GENERAL GUIDELINES

Before installing the **Easy Roof System**, please be aware of the following guidelines:

- ✓ A slate roof can be installed AS LOW AS 12° when installed with **Easy Slate**.
- ✓ For use with natural or fibre-cement slates.
- ✓ The roof should be installed in the traditional way, with the addition of the **Easy Roof System** products where required.
- ✓ Use one **Easy Slate** for each slate that is installed.
- ✓ The **Easy Roof System** uses our unique patented super seals, flexible rubber which seals against the back of the slate. The best performance is achieved using smooth slates. *(Consideration should be given to rustic, uneven or riven slates as optimum performance may be affected.)*
- ✓ All surfaces must be clean and free of any moss coverage prior to installation. *(Make sure to prevent/control coverage after installation).*
- ✓ Ensure all health and safety requirements are implemented, especially when working at a height.
- ✓ Before installation, make sure ventilation requirements of the roof are met.
- ✓ Ideal for the Scottish practice method of nailing slates directly to a sarking board.
- ✓ Slate hooks can be used with **Easy Slate**.

The **Easy Roof System** is a Permavent product and it's performance is only guaranteed when used as a complete system which includes the use of **Permavent Dry** breather membrane.

Permavent cannot be held responsible for condensation problems that arise from the use of inferior roofing underlays.

## Coverage: Slates per m<sup>2</sup>

Lap, mm	Size, mm (nominal)								
	600 x 300	500 x 300	500 x 250	450 x 250	400 x 250	400 x 200	350 x 250	350 x 200	300 x 200
50	11.9	14.6	17.4	19.6	22.4	27.9	26.1	32.5	39.0
60	12.1	14.9	17.8	20.1	23.1	28.7	27.0	33.6	40.7
70	12.4	15.2	18.2	20.6	23.8	29.6	28.0	34.8	42.4
80	12.6	15.6	18.7	21.2	24.5	30.5	29.0	36.1	44.3
85	12.7	15.8	18.9	21.5	24.9	31.0	29.6	36.8	45.4
90	12.9	16.0	19.1	21.8	25.3	31.5	30.2	37.5	46.5
95	13.0	16.2	19.4	22.1	25.7	32.0	30.8	38.3	47.6
100	13.1	16.4	19.6	22.4	26.1	32.5	31.4	39.0	48.8
105	13.2	16.6	19.9	22.7	26.6	33.1	32.0	39.8	-
110	13.4	16.8	20.1	23.1	27.0	33.6	32.7	40.7	-
115	13.5	17.0	20.4	23.4	27.5	34.2	-	-	-
120	13.7	17.3	20.6	23.8	28.0	34.8	-	-	-
130	14.0	17.7	21.2	24.5	29.0	36.1	-	-	-
150	14.6	18.7	22.4	26.1	-	-	-	-	-

# PREPARING THE ROOF

After the frame of the roof has been built, lay the Permavent Dry breather membrane and fit the eaves trays. (See roll inserts for instructions when installing Permavent membranes.)

The majority of the roofing battens are installed as standard on top of a breather membrane. However, to prepare the roof structure for the **Easy Roof System** products (**Easy Verge**, **Easy Valley**, **Easy Soaker** etc.) you will need to:

## Valley

Install 4 valley battens vertically (2 each side) with a gap of a 25mm batten. Install the horizontal battens in the normal way. The verge battens can be left long.



## Soaker

The breather membrane should be at least 75mm up any abutment, such as a wall or chimney (dormer cheeks should then be over laid vertically with the membrane). The batten ends should be approx. 5mm from the abutment.



There should be no more than a 20mm gap between a wall and the end rafter. If any larger the membrane can fall down the gap. To prevent this, fix the membrane to the abutment with **Permatac** double sided tape.

## Verge

Gauge the verge overhang to coincide with the lateral gauge of the slates. We recommend slates overhang **Easy Verge** by 3-5mm. However flush fitting or up to 10mm is also acceptable.



Cut the battens to the required length to create a perfectly straight verge.

**NB:** Allow 3mm when cutting battens for the thickness of **Easy Verge**.



# EASY VERGE / VERGETRIM

Fit and cut the verge battens to length (Page 3).

1. Make a small a cut along the lower length of **Easy Verge** just behind the drip. This cut will allow the undercloak section to be bent up and close off the eaves detail.
2. Depending on the angle of the roof, the lower undercloak section of **Easy Verge** should be moved to allow for the eaves tray.
3. Slide **Easy Verge** over the end of the battens. Fold over the edge of the breather membrane to make sure it is kept underneath the **Easy Verge** and is secure (welded edge).
4. Make sure the **Easy Verge** has formed a straight line up the roof edge and fix with a small amount of clout nails.

When every slate is nailed down it will fix through the **Easy Verge** and a fully secure verge is formed.

5. To extend **Easy Verge** simply butt join it as it extends up the verge. If the join does not fall on a batten end, insert a batten offcut to support the join.



## EASY VERGETRIM

**Easy VergeTrim** is to be used where preformed verge details have been installed e.g. buildings that include: fully boarded (sarking), close cut gables and barge boards.

To install **Easy VergeTrim** simply follow the steps above (excluding step 1 & 2).

*NB: Butt joins with **Easy VergeTrim** will need to be over a batten.*

**DO NOT** use cut slates less than 150mm wide for verge or abutments!

# EASY SOAKER

Lay the breather membrane 75mm up the abutment (Page 3).

1. The **Easy Soaker** is applied on top of the roof battens and against the abutment.
2. To hold **Easy Soaker** in position, apply **Permatac** (double sided tape) to the back of the soaker upstand and stick to the abutment.
3. To avoid the first slate from being 'kicked up' the flexible rubber seals can be trimmed at the lowest section just above the fascia.

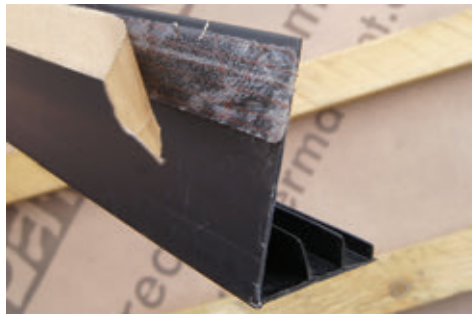
**Easy Soaker** should remain flat and not allowed to kink.

4. The **Easy Soaker** can be lap joined:  
Using a sharp blade remove 100mm of rubber seals on the top section of the soaker.  
This will allow the length of the next soaker to sit flush.

The lap should be sealed using a high quality silicone based sealant.

*NB: Part of the lap section should always be over at least 1 batten.*

5. The **Easy Soaker** will be fully secured in place when each slate is laid and nailed down.
6. Install lead cover flashing (as per guidance provided by The Lead Sheet Association).



# SOAKER SINGLES

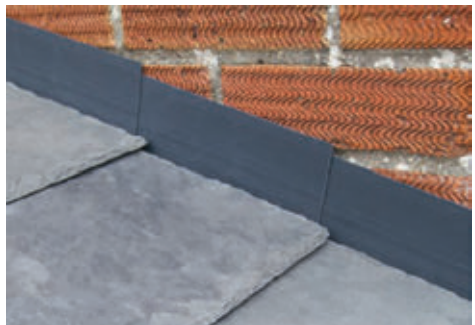
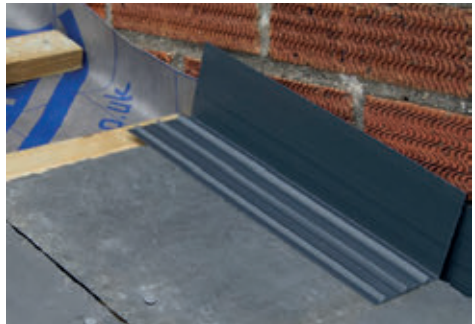
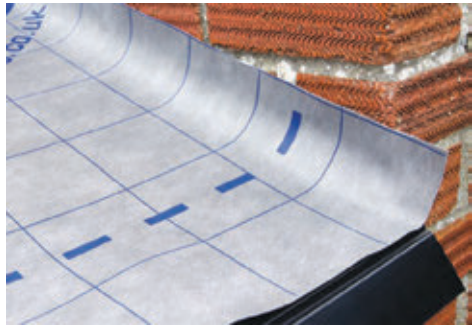
1. Ensure the breather membrane goes up the abutment wall 75mm (Page 3).
2. Use **Permatac** (double sided tape) to fully adhere the membrane to the abutment wall.  
Fix the tape to the abutment wall first, 50mm above the rafter line.  
Once the tape is in place, adhere the membrane to it.
3. After the slate eaves/starter course has been laid in the traditional way, place the first **Soaker Single** length on top and against the abutment.
4. Once the soaker is in place, lay the first full sized slate as normal on top.

The **Soaker Single** will be fully secured in place when each slate is laid and nailed down.

5. Continue up the roof, using one **Soaker Single** for every course of slate.

*NB: The installation of **Soaker Singles** can coincide with each run of **Easy Slate** being installed (Page 9).*

6. Install lead cover flashing (as per guidance provided by The Lead Sheet Association).



# EASY VALLEY

Complete all valley structure preparation (Page 3).

1. Make a 'V' cut in the lower end section of the **Easy Valley** length. When aligned correctly, this allows the rain water to run off into the guttering.
2. Position the **Easy Valley** centrally up the valley on top of the battens, align with the roof edge and guttering.
3. To keep it in position, secure the edge with a small amount of clout nails.
4. To extend **Easy Valley** it should be lapped by atleast 100mm with the next length.

The upper section has the central channel removed for this purpose. Using a sharp blade, remove all the rubber seals to the same length.

5. The lap of the adjoining **Easy Valley** length should be sealed using a high quality silicone based sealant.
6. Whilst considering the **Easy Slate** and starter course installation process (Page 9), begin cutting and laying the valley slates using traditional methods.

*NB: **Easy Slate** can be mitre cut for the valley section*

7. Fix the slates into position by nailing through the outer edge of the **Easy Valley** (This fixing area surrounds the smaller rubber seals only).
8. Continue to slate up along the valley as normal.



**DO NOT** make any holes within the central region (between the 2 inner seals)

# EASY VALLEY CAP

Secure the Easy Valley and slates in place:

1. Make sure the central channel of the valley is free from all debris.
2. Position the cap over the central channel.
3. Push the cap's hooked feet into the grooves of the central channel and press down until the cap's seals are flush with the flat surface of the slates.
4. Screw down the attached bolt at the top end to lock the cap in position.
5. The **Easy Valley Cap** has a rebate at the lower end and this should overlap a previously installed cap and cover the bolt head.
6. There should be a slight gap between each cap within this rebated section to allow for thermal expansion.

*NB: The caps should never be butted together end to end (especially in cold weather).*



## EASY VALLEY PLUS

If the slates are above 10mm in thickness, install **Easy Valley Plus** to extend the height of the valley cap.

This is fitted into the central channel before the **Easy Valley Cap**, with the cap then inserted into the grooves of this attachment.



# EASY SLATE

Install the roof eaves tray and lay the breather membrane.

1. Lay the slate eaves/starter coarse in the traditional way.
2. The **Easy Slate** should then be installed underneath the first full length slate, up to the strips central line.

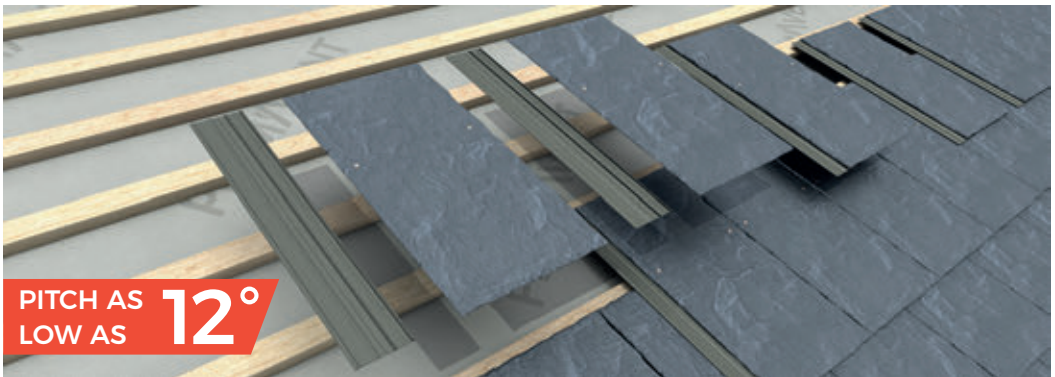
The next slate will then be placed over the other half of the **Easy Slate** strip.



One Easy Slate MUST be used for each slate on the roof

3. Always ensure that the flexible super seals of **Easy Slate** are leaning towards the side edge of each slate. The flexible super seals prevent water running back under the slate. (See image on the Page 10 for guidance)
4. When **Easy Slate** is in position, nail the slate down as normal. This secures **Easy Slate** in place.
5. Continue to slate across the roof, using one **Easy Slate** for each slate used.

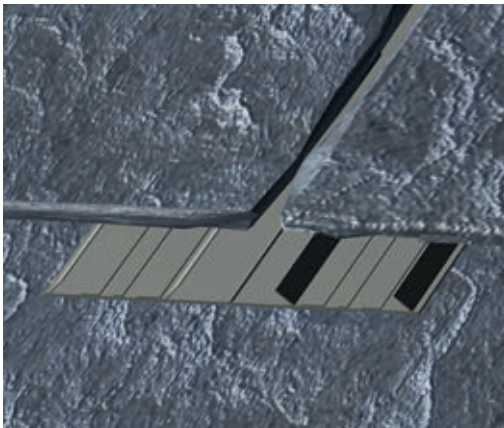
*NB: For an approximate guide on how many slates your roof will require, check our coverage chart on Page 2.*



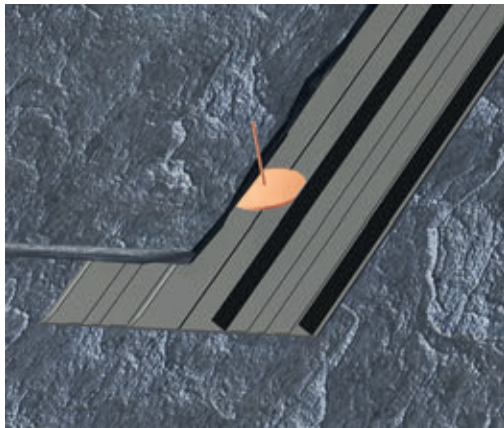
PITCH AS LOW AS **12°**

# EASY SLATE - *Continued*

The seals must always lean to the edge of the slates:



Copper rivets must be located between the central seals:



## IMPORTANT GUIDELINES

- ✓ EASY SLATE MUST ALWAYS COVER THE FULL LENGTH OF THE SLATE
- ✓ Easy Slate that are longer than the slate **CAN** be used, it can either be cut down or left long. However, you **CAN NOT** use Easy Slate that is shorter than the slate length.
- ✓ Easy Slate can be cut to custom size, as well as being mitre cut at the valley section (see Page 7).
- ✓ We recommend nailing the slate, but spiked slate hooks can also be used.

When using a slate hook, the top of **Easy Slate** should be fixed to the batten using a clout nail to prevent it from spinning out of alignment.

*NB: Copper rivets and slate hooks must be centrally located.*



- ✓ **DO NOT** install Easy Slate directly over the top of any other **Easy Roof System** product:

*Easy Verge, Easy VergeTrim, Easy Soaker, Soaker Singles and Easy Valley.*

# UK EXPOSURE & HEADLAPS



## UK Annual Driving Rain Index, Exposure Grading

The charts show the minimum pitch and head lap for slates that can currently be installed in the UK (BS 5543).

By using the **Easy Roof System** it is now possible to install natural and fibre cement slates on any roof and exclusively to those marked ✓.

- MODERATE EXPOSURE** less than 56.5l/m<sup>2</sup> per spell
- SEVERE EXPOSURE** 56.5l/m<sup>2</sup> or greater per spell

## Minimum Recommended Headlaps for Slate

✓ = 80mm - 100mm headlap (dependant on the location within the exposure zones)

### MODERATE EXPOSURE

Size, mm (nominal)	Minimum Rafter Pitch									
	12.5°	20°	22.5°	25°	27.5°	30°	35°	40°	45°	85°
600 x 300	✓	✓	✓	95	85	80	70	60	55	-
500 x 300	✓	✓	✓	95	85	80	70	60	55	-
500 x 250	✓	✓	✓	95	85	80	70	60	55	50
450 x 250	✓	✓	✓	✓	✓	80	70	60	55	50
400 x 250	✓	✓	✓	✓	✓	80	70	60	55	50
400 x 200	✓	✓	✓	✓	✓	80	70	60	55	50
350 x 250	✓	✓	✓	✓	✓	80	70	60	55	50
350 x 200	✓	✓	✓	✓	✓	80	70	60	55	50
300 x 200	✓	✓	✓	✓	✓	80	70	60	55	50

### SEVERE EXPOSURE

Size, mm (nominal)	Minimum Rafter Pitch									
	12.5°	20°	22.5°	25°	27.5°	30°	35°	40°	45°	85°
600 x 300	✓	✓	✓	✓	✓	100	90	80	70	-
500 x 300	✓	✓	✓	✓	✓	100	90	80	70	-
500 x 250	✓	✓	✓	✓	✓	100	90	80	70	65
450 x 250	✓	✓	✓	✓	✓	100	90	80	70	65
400 x 250	✓	✓	✓	✓	✓	100	90	80	70	65
400 x 200	✓	✓	✓	✓	✓	100	90	80	70	65
350 x 250	✓	✓	✓	✓	✓	100	90	80	70	65
350 x 200	✓	✓	✓	✓	✓	100	90	80	70	65
300 x 200	✓	✓	✓	✓	✓	100	90	80	70	65

# EASY ROOF SYSTEM 40 YEAR PRODUCT GUARANTEE FOR SLATES



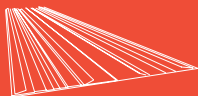
We are so confident that our products are of the highest quality that we offer a 40 year product guarantee.



The installation must consist of:

- ✓ Permavent Dry
- ✓ Permalap (single sided membrane tape)
- ✓ Easy Roof System products:

## EASY SLATE



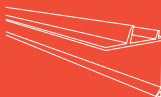
400/500/600mm long  
(Box of 100)  
3m long  
(Pack of 20)

## EASY VERGE



3m long  
(Pack of 10)

## EASY VERGETRIM



3m long  
(Pack of 10)

## EASY VALLEY



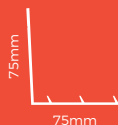
3m long  
(Pack of 10)

## EASY SOAKER



3m long  
(Pack of 10)

## SOAKER SINGLES



350mm long  
(Box of 40)

**LOW PITCH PLAIN TILE SYSTEM ALSO AVAILABLE - PITCH AS LOW AS 17.5°**



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