



KLÖBER

PRODUCT GUIDE

2022



KLÖBER

QUALITY &
INNOVATION

SINCE 1960

Over 60 years of completing quality roofs that create a safe, comfortable and sustainable environment.

Klober has grown to become one of Europe's leading manufacturers of roofing ventilation products and accessories.

Our aim is to make our customers' lives easier everyday by providing first-class service and solving today's challenges, whilst thinking of tomorrow's innovative solutions.

KLOBER

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INNOVATION

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Ventilation

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Why choose Klover?



We've been proudly supplying roofing materials for **over 60 years**, which means our products have been tried and tested by installers.



Our products are **stocked nationwide** at independent and national builders and roofing merchants as well as online businesses, so you can order our products on the go.



We offer a **wide product choice**, which means you'll find all of your roofing ventilation and accessory solutions required for the job in one place. To learn more about Klover and to find your nearest stockist, visit klover.co.uk

Guarantee



All products supplied by Klover Ltd are covered by a 10 year guarantee against manufacturing defect. Please note, products are not covered for colour stability, poor workmanship or incorrect installation.

Products should be installed as per our literature, fixing instructions and/or guidelines set out in regulations and British Standards such as BS 5534, BS 8612, BS 5250 and our BBA/NSAI certificates.

Certification and approvals

All of Klover's products conform to the relevant Building Regulations and British Standards and, where appropriate, are NHBC approved, BBA, NSAI and CE certified.

For more information visit klover.co.uk



Supporting Installers



Roofing Specialists

National Sales Team

We have a national team of specialists who are available to support with all of your roofing projects, including public and private residential and commercial developments for new build or refurbishment - our highly experienced team are on-hand.

We can help you to identify the right roofing solution, as well as sourcing the materials for the job. Get in touch today to arrange a meeting or site visit. To find your Area Account Manager, visit klover.co.uk

Technical Hotline

Need support on the go? We have a dedicated Technical Support Line who are here to help with any product or installation queries:

Telephone:
0330 678 0088

Opening Hours:
Mon to Fri 8:00am - 5:00pm

Learning & Support

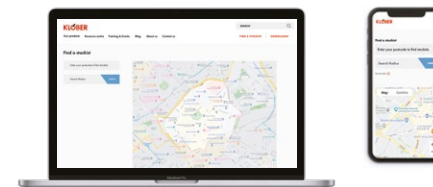
Training

We know how important it is to help installers understand our products, which is why we've developed a number of videos to support you on the go. We can also offer free online CPD and face to face training. From theory to practical hands-on sessions, we build our training around your needs.

Downloads

We offer a range of online resources including datasheets, installation guides and brochures, which you can access from your desktop or mobile.

To find out more about our training and resources, visit klover.co.uk



Social media

Tag Klover and we'll get your business name out there by sharing with our followers. PLUS keep up to date with our latest products and offers.

Recommended Ventilation Requirements

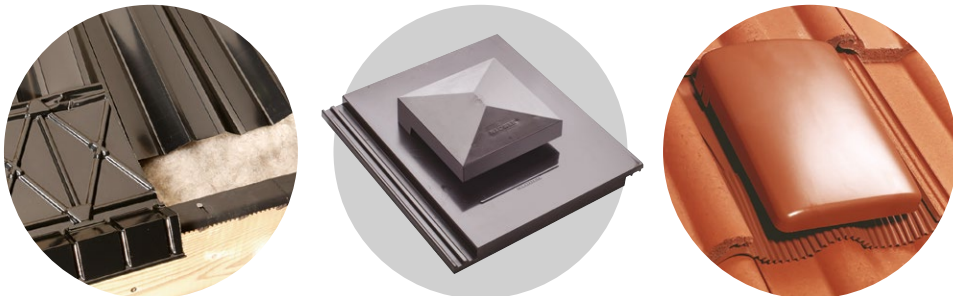
The ventilation requirements detailed below are minimum requirements as set out in Building Regulations and BS 5250 for a ventilated roof space.

The typical scenarios cover cold roofs (when the insulation is at ceiling joist level) and warm roofs (when the insulation follows the line of the rafter). When we discuss roof space ventilation, we often refer to low level (eaves) ventilation and high level (ridge) ventilation.

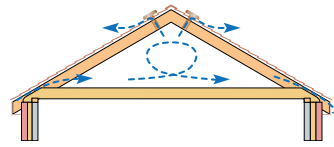
Generally high-level ventilation can be provided by the use of our Roll Fix Dry Ridge systems or vent tiles.



Similarly, low level ventilation can be provided by the use of our range of eaves ventilation products or vent tiles.



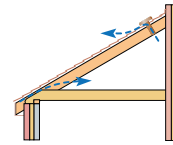
Duo Pitch Roof over 15°



The equivalent of a continuous 10mm ventilation opening at low level, combined with the equivalent of a continuous 5mm ventilation opening at high level for roof pitches over 35° and spans greater than 10m.

For roof pitches below 15° the low-level ventilation should be increased to the equivalent of a 25mm ventilation opening.

Mono Pitch Roof over 15°



The equivalent of a continuous 10mm ventilation opening at low level combined with the equivalent of a continuous 5mm ventilation opening at high level.

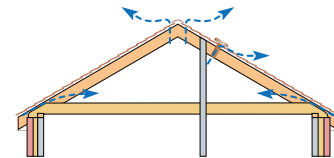
For roof pitches below 15° the low-level ventilation should be increased to the equivalent of a 25mm ventilation opening.

Flat Roof with Cold Deck



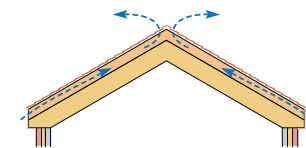
The equivalent of a continuous 25mm ventilation opening on opposite sides.

Duo Pitch Roof over 15° with Dividing Walls



The equivalent of a continuous 10mm ventilation opening at low level, with the equivalent of a continuous 5mm ventilation opening immediately below and 10mm immediately above each dividing wall, ensuring each void is ventilated.

Duo Pitch Warm Roof with Inclined Ceiling and Insulation



The equivalent of a continuous 25mm ventilation opening at low level combined with the equivalent of a continuous 5mm ventilation opening at high level. A 50mm air gap between the insulation and underlay should be maintained.

The choice of roofing membrane combined with the type of construction may influence the amount of additional ventilation required; for further information please refer to klobber.co.uk



Ventilation

Vents

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Colour Matching Service

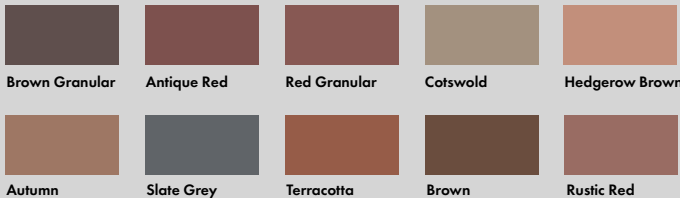
Struggling to find a tile vent that matches your roof colour? Klober offers a colour matching service for all tile vents, so no matter what type of tile vent you need you can be certain it will blend in seamlessly with your roof.

All colour matched tile vents are made to order which means returns cannot be accepted. If you require a unique colour we may request a sample to ensure we get the closest match possible.



- Available on all of our tile vents
- Granulation available in brown, antique red and cotswold colours

Plain Tile Vents are also available in the standard colours below:



For more information on lead times and pricing, call our internal Sales Team on 01332 813050

In Line Tile Vents

In Line Tile Vent Range



A neat, cleverly designed in-line range suitable for the most popular concrete interlocking roof tiles.

Key features

- Sleek in-line design making it virtually invisible in the roofline.
- Design allows direct ventilation to the roof space.
- Adaptors and Flexipipe available for easy soil ventilation or mechanical extraction.

Compatible with

- Adaptor and Flexipipe KG979200 p28.
- Adaptor KG979100 p28.
- Flexipipe KG979900 p28.
- Pipe Sealing Collar KU8001 p27.



Double Roman Tile Vents



Area of application

- For roof pitches 17.5° and over.
- Double Roman tile profiles.
- High and low level ventilation.



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG9857-3-0116	332	418	10,000	Antique Red	10	Suits Marley, Redland, Russell and Sandtoft Double Roman profiles
KG9857-3-0152				Terracotta		
KG9857-3-0247				Brown		
KG9857-3-0429				Slate Grey		

Single Pantile Tile Vents



Area of application

- For roof pitches 20° and over.
- Single Pantile profiles.
- High and low level ventilation.



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG9860-0116	229	384	10,000	Antique Red	10	Suits Sandtoft Shire Pantile, Redland Norfolk Pantile, Marley Anglia and Forticrete Centurion interlocking tile profiles
KG9860-0152				Terracotta		
KG9860-0247				Brown		
KG9860-0429				Slate Grey		

Double Pantile Tile Vents



Area of application

- For roof pitches 17.5° and over.
- Double Pantile profiles.
- High and low level ventilation.



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG9858-3-0116	332	418	10,000	Antique Red	10	Suits Marley Mendip, Redland Grovebury, Russell Pennine and Sandtoft Double Pantile profiles
KG9858-3-0152				Terracotta		
KG9858-3-0247				Brown		
KG9858-3-0429				Slate Grey		

Limarech Tile Vents



Area of application

- For roof pitches 17.5° and over.
- Limarech Pantile profiles.
- High and low level ventilation.



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG9859-3-0116	332	418	10,000	Antique Red	10	Suits Marley Ludlow Major, Redland Renown, Russell Cheviot and Sandtoft Lindum profiles
KG9859-3-0152				Terracotta		
KG9859-3-0247				Brown		
KG9859-3-0429				Slate Grey		

Flat Tile Vents



Area of application

- For roof pitches 20° and over.
- Flat tile profiles.
- High and low level ventilation.



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG9856-3-0116	330	418	10,000	Antique Red	10	Suits Marley Modern, Redland Mini Stonewold, Russell Grampian and Sandtoft Calderdale profiles
KG9856-3-0152				Terracotta		
KG9856-3-0247				Brown		
KG9856-3-0429				Slate Grey		
KG9856-3-0450				Slate Black		

Twin Plain Tile Vents



Area of application

- For roof pitches 22.5° and over.
- When used with Forticrete Gemini we recommend a minimum pitch of 25°.
- Twin plain tile profiles.
- High and low level ventilation.



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG9861-0116	330	273	7,850	Antique Red	10	Suits Redland Duo Plain, Forticrete Gemini and Marley Ashmore profiles
KG9861-0152				Terracotta		
KG9861-0247				Brown		
KG9861-0429				Slate Grey		

15x9 Tile Vents



Area of application

- For roof pitches 20° and over.
- 15x9 tile profiles.
- High and low level ventilation.



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG9690-0116	229	384	10,000	Antique Red	10	Suits Redland 49, Marley Ludlow Plus, Sandtoft Standard Pattern, and Forticrete V2 profiles
KG9690-0152				Terracotta		
KG9690-0247				Brown		
KG9690-0429				Slate Grey		

Thin Line Tile Vents



Area of application

- For roof pitches 17.5° at 100mm headlap and over 22.5° at 75mm headlap.
- Thin leading edge tile profiles.
- High and low level ventilation.



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG9855-0450	330	418	10,000	Slate Black	10	Suits Marley Edgemere, Russell Galloway, Lagan Elite, Quinn Lakeland Slate Range and Redland's Slate 10 range
KG9855-3-0116				Antique Red		
KG9855-3-0152				Terracotta		
KG9855-3-0247				Brown		
KG9855-3-0429				Slate Grey		

Uni-Line Tile Vents



Designed as a discreet, in-line vent making it virtually invisible in the roof line, suiting most interlocking roof tiles.



Key features

- Sleek in-line design making it virtually invisible in the roofline.
- Built in downpipe, which allows direct ventilation to the roof space.
- Connects directly to the flexipipe, without additional adaptors required, for mechanical extraction systems, soil and ventilation pipes.

Area of application

- For roof pitches 20° and over.
- For most popular concrete interlocking tiles.
- High and low level ventilation.

Compatible with

- Flexipipe KG979900 p28.
- Pipe Sealing Collar KU8001 p27.

Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity
KG9853-0116	424	454	10,000	Antique Red	1
KG9853-0152				Terracotta	
KG9853-0247				Brown	
KG9853-0429				Grey	

Universal 20k Tile Vents



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity
KG9854-20-0247	424	454	20,000	Brown	10
KG9854-20-0429				Grey	
KG9854-20-0152				Terracotta	

Offers high levels of ventilation, suiting most concrete interlocking roof tiles.

Key features

- Ideal solution where high levels of ventilation are required providing 20,000mm² ventilation area.
- Universal solution.
- Perfect solution for Heat Recovery Systems with a 150mm adaptor.

Area of application

- For roof pitches 17.5° and over.
- For most popular concrete interlocking tiles.
- High and low level ventilation.

Compatible with

- Adaptor KG979700 p29.



Universal Tile Vents



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity
KG985403	424	454	15,000	Antique Red	10
KG985430				Slate Grey	
KG985434				Terracotta	
KG985436				Brown	
KG985476				Black	

The perfect solution for ventilating roof voids as it suits most concrete interlocking roof tiles.

Key features

- Design allows direct ventilation to the roof space.
- Can be used as a terminal for soil and ventilation pipes and mechanical extraction systems when used with an adaptor and flexipipe.
- Compatible with 100mm and 125mm adaptors.

Area of application

- For roof pitches 17.5° and over.
- For most popular concrete interlocking tiles.
- High and low level ventilation.

Compatible with

- Adaptor and Flexipipe KG979800-1 p28.
- Adaptor KG968300-1 / KG979000-1 p29.
- Flexipipe KG979900 / KE8047 p28.
- Pipe Sealing Collar KU8001 p27.



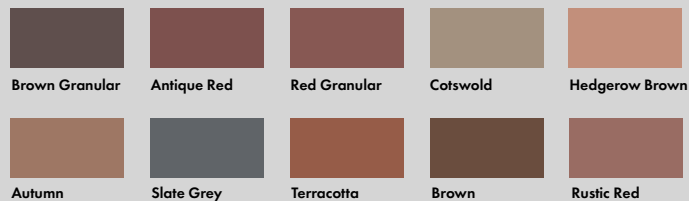
Colour Matching Service

Struggling to find a tile vent that matches your roof colour? Klober offers a colour matching service for all tile vents, so no matter what type of tile vent you need you can be certain it will blend in seamlessly with your roof.

All colour matched tile vents are made to order which means returns cannot be accepted. If you require a unique colour we may request a sample to ensure we get the closest match possible.

- Available on all of our tile vents
- Granulation available in brown, antique red and cotswold colours

Plain Tile Vents are also available in the standard colours below:



For more information on lead times and pricing, call our internal Sales Team on 01332 813050

Traditional Tile Vents

Traditional Tile Vents



Marley Wessex



Redland Regent



Marley Bold Roll



Redland Delta



Redland Stonewold Mark II Profile



A quality range of high-flow ventilating tiles to suit most traditional interlocking roof tiles.

Key features

- Ideal solution where high levels of ventilation are required providing 15,000mm² ventilation area.
- The vent cap avoids any build up of debris inside the vent and prevents the entry of birds and large insects.
- Can be used as a terminal for soil and ventilation pipes and mechanical extraction systems when used with an adaptor and flexipipe*.

Area of application

- For roof pitches 20° and over.
- For most traditional concrete interlocking tiles.
- High and low level ventilation.

Compatible with

- Throat Adaptor KG8000-3 p29.
- Flexipipe KG979900 p28.
- Pipe Sealing Collar KU8001 p27.

Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility	
KG6083-3-0200	380	430	15,000	Brown	10	Redland Stonewold Mark II Profile	
KG6083-3-0400				Grey			
KG6092-3-0200	330	420		Brown		Marley Wessex	
KG6084-3-0200	334			Brown		Redland Regent	
KG6084-3-0400				Grey		Marley Bold Roll	
KG6085-3-0200	Brown			Redland Delta			
KG4096-3-0200	385	430		Brown			

*not Redland Delta



Small Slate Vents



Slate vent tile with cap to avoid any build up of debris inside the vent.

Key features

- The vent cap avoids any build up of debris inside the vent and prevents the entry of birds and large insects.
- Built in downpipe, which allows direct ventilation to the roof space.
- Connects directly to the flexipipe, without additional adaptors required, for mechanical extraction systems, soil and ventilation pipes.

Area of application

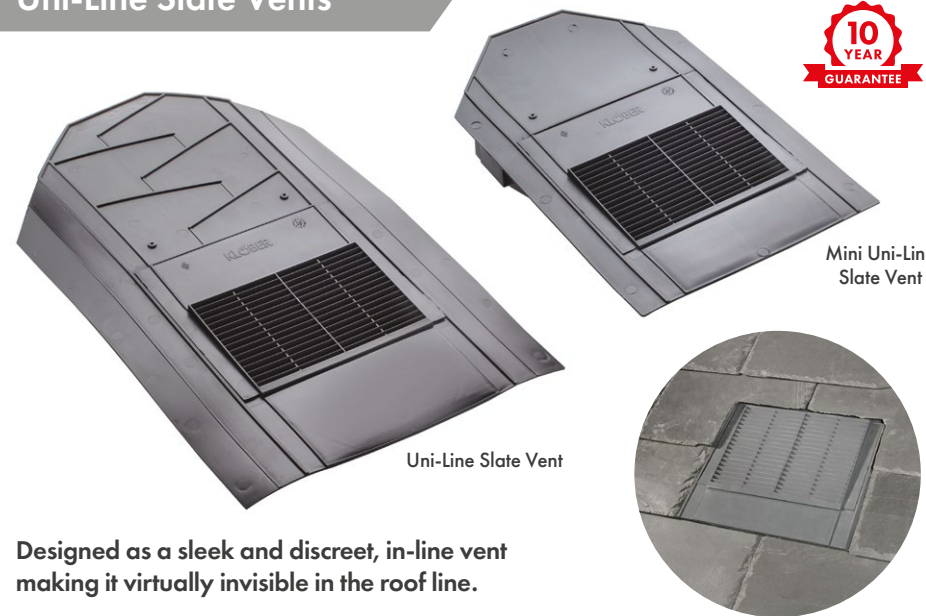
- For roof pitches 20° - 70°.
- For most manmade fibre cement or natural slate tiles.
- High and low level ventilation.

Compatible with

- Flexipipe KG972400 p28.
- Pipe Sealing Collar KU8001 p27.

Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG972200	300	600	4,500	Slate Grey (matt finish)	10	600mm x 300mm (24" x 12") and 500mm x 250mm (20" x 10") double lap slates
KG972276				Slate Black		

Uni-Line Slate Vents



Designed as a sleek and discreet, in-line vent making it virtually invisible in the roof line.

Key features

- Sleek in-line design making it virtually invisible in the roofline.
- Built in downpipe, which allows direct ventilation to the roof space.
- Connects directly to the flexipipe, without additional adaptors required, for mechanical extraction systems, soil and ventilation pipes.

Area of application

- For roof pitches over 22.5°.
- Manmade fibre cement or natural slate tiles.
- High and low level ventilation.

Compatible with

- Flexipipe KG979900 p28.
- Pipe Sealing Collar KU8001 p27.

Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
Uni-Line Slate Vents						
KG9630-0403	380	600	6,500	Dark Slate	10	600 x 300mm (24" x 12") and 500mm x 250mm (20" x 10") double lap slate tiles
KG9630-0429				Slate Grey		
Mini Uni-Line Slate Vents						
KG9631-0403	300	450	6,500	Dark Slate	10	Up to 400 x 250mm (16" x 10") double lap slate tiles
KG9631-0429				Slate Grey		

10k Slate Vents



A low profile solution, with a cap to avoid build up of debris inside the vent.

Key features

- The vent cap avoids any build up of debris inside the vent and prevents the entry of birds and large insects.
- Adaptors and Flexipipe available for easy soil ventilation or mechanical extraction.

Area of application

- For roof pitches over 20°.
- Manmade fibre cement or natural slate tiles.
- High and low level ventilation.

Compatible with

- Adaptor KG979100 p29.
- Flexipipe KG979900 p28.
- Pipe Sealing Collar KU8001 p27.

Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG968900	300	600	10,000	Slate Grey	10	600mm x 300mm (24" x 12") and 500mm x 250mm (20" x 10") double lap slate tiles

20k Slate Vents



Offers high levels of ventilation for double lap slates.

Key features

- Provides 20,000mm² ventilation area.
- Perfect solution for Heat Recovery Systems with a 150mm adaptor.

Area of application

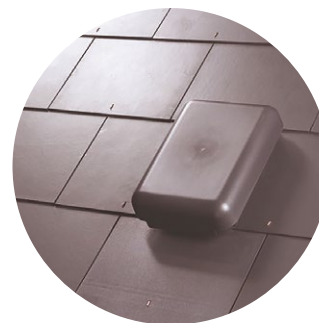
- For roof pitches over 22.5°.
- Manmade fibre cement or natural slate tiles.
- High and low level ventilation.

Compatible with

- Adaptor KG979700 p29.

Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG9795-0429	380	600	20,000	Slate Grey	10	600mm x 300mm (24" x 12") and 500mm x 250mm (20" x 10") double lap slate tiles
KG9795-0450				Slate Black		

Large Slate Vents



Offers high levels of ventilation for double lap slates.

Key features

- The vent cap avoids any build up of debris inside the vent and prevents the entry of birds and large insects.
- 100mm and 125mm Adaptors and Flexipipe available for easy soil ventilation or mechanical extraction.

Area of application

- For roof pitches over 22.5°.
- Manmade fibre cement or natural slate tiles.
- High and low level ventilation.

Compatible with

- Adaptor and Flexipipe KG979800-1 p28.
- Universal Vent Adaptor KG968300-1 / KG979000-1 p29.
- Flexipipe KG979900 / KE8047 p28.
- Pipe Sealing Collar KU8001 p27.

Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG979630-1 (Cap)	380	600	14,000	Slate Grey	20	600mm x 300mm (24" x 12") and 500mm x 250mm (20" x 10") Double Lap Slate Tiles
KG979400-1 (Base)					10	

Clay Tile Vents



Discreet ventilating tiles suitable for clay plain tiles.

Key features

- Sleek in-line design making it virtually invisible in the roofline.
- Can be used as a terminal for soil and ventilation pipes and mechanical extraction systems when used with an adaptor and flexipipe.

Area of application

- For roof pitches 30° and over.
- For most popular clay plain tiles.
- High and low level ventilation.

Compatible with

- Throat Adaptor KG8003-3 p29.
- Flexipipe KG979900 p28.
- Pipe Sealing Collar KU8001 p27.



Brown



Terracotta



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity
KG4321-3-0200	500	370	9,000	Brown	10
KG4321-3-0100				Terracotta	

Uni-Plain Tile Vents



Discreet ventilating tiles suitable for concrete plain tiles.

Key features

- Sleek in-line design making it virtually invisible in the roofline.
- Can be used as a terminal for soil and ventilation pipes and mechanical extraction systems when used with an adaptor and flexipipe.

Area of application

- For roof pitches 35° and over.
- For most popular concrete plain tiles.
- High and low level ventilation.

Compatible with

- Adaptor and Flexi Pipe KG992800 p28.
- Adaptor KG990500 p29.
- Flexipipe KG979900 p28.
- Pipe Sealing Collar KU8001 p27.



Hedgerow Brown



Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity
KG991802	330	300	6,000	Brown Granular	10
KG991803-1				Antique Red	
KG991805				Red Granular	
KG991812				Cotswold	
KG991818				Hedgerow Brown	
KG991823				Autumn	
KG991830-1				Slate Grey	
KG991834-1				Terracotta	
KG991836-1				Brown	
KG991878				Rustic Red	

Spare Universal Tile Vent Cap



Slate Grey



Terracotta



Brown



Antique Red

A replacement cap for Klober Universal Tile Vents.

Key features

To be used with Klober Universal Tile Vents.

Compatible with

- Universal Tile Vents
KG985403 / KG985430 /
KG985434 / KG985436 p17.

Product code	Colour	Box quantity
KG985530	Slate Grey	1
KG985534	Terracotta	
KG985536	Brown	
KG985503	Antique Red	

Pipe Sealing Collar



The ideal solution for creating airtight and windtight seals around pipes which pass through the roof.

Key features

- Suits nearly all roof pitches due to the highly flexible ridges in the collar.
- Suitable for areas with adverse weather conditions.
- Can be used for both rigid and flexipipes.

Area of application

- For roof pitches between 10 - 70°.
- Use between the membrane or vapour control layer for pipes which penetrate the roof.
- Suitable for 100 to 125mm diameter pipes.

Related Products

- Permo Tape KU0121-1 p54.

Product code	Width mm	Length mm	Diameter mm	Height mm	Colour	Box quantity
KU8001	235	310	95	115	Black	20

Adaptors and Flexipipes

The perfect add-on for vents to allow for soil ventilation and mechanical extraction, by providing quick and simple connection to internal pipework. Choose between a combined adaptor and flexipipe or purchase them individually.



Key features

- Quick and simple connection to internal pipework.
- Lightweight and durable, while no tile cutting or lead flashing is required.
- Pressure tested to comply with relevant British Standards.

Product code	Length mm	Diameter mm	Box quantity	Tile compatibility	Product
Adaptor and Flexipipe					
KG979200		100	10	10k Slate Vents and In-Line Vents	
KG979800-1				Large Slate Vents and Universal Tile Vents	
KG992800				Uni-Plain Tile Vents	
Flexipipe					
KE8047	340	100/125	10	Universal Tile Vent and Large Slate Vent when used with 125mm Adaptor	
KG972400	280	75/100		Small Slate Vent	
KG979900	380	100/100		All Vent Tiles and Adaptors with 100mm connection (excludes 20k and Economy Slate Vent)	

Product code	Length mm	Diameter mm	Box quantity	Tile compatibility	Product
Adaptor					
KG968300-1		100	10	Universal Tile Vents and Large Slate Vent	
KG979000-1		125			
KG979100		100		10k Slate Vents and In-Line Vents	
KG979700		150		20k Tile and Slate Vents	
KG990500		100		Uni plain Tile Vents	
KG8003-3				Clay Plain Tile Vents	
KG8000-3			Traditional Vents		

Solar Outlet

Slate base shown



Product code	Width mm	Length mm	Depth mm	Colour	Box quantity
KE8070-3-0429	424	454	197	Anthracite	1
KE8070-3-0200				Brown	
KE8071-0450 (Slate Base Kit)	400	400		Black	

Allows cables and water pipes for solar panels to pass through the roof without compromising the watertightness of the roof covering.

Key features

- Universal tile and slate bases available.
- Easy installation.
- Kit contains base tile, adaptor and nozzle.

Area of application

- For roof pitches between 16° - 65°.
- For slate roof pitches over 20°.
- Nozzle can accommodate pipe/cables with diameters between 10mm and 70mm.

Duo Solar Outlet Kit



Product code	Width mm	Length mm	Depth mm	Colour	Box quantity
KE8270-3-0100	424	454	131	Red	1
KE8270-3-0429				Anthracite	

The ideal solution for allowing solar twin cables to pass through the roof while fully protected from rain and wind.

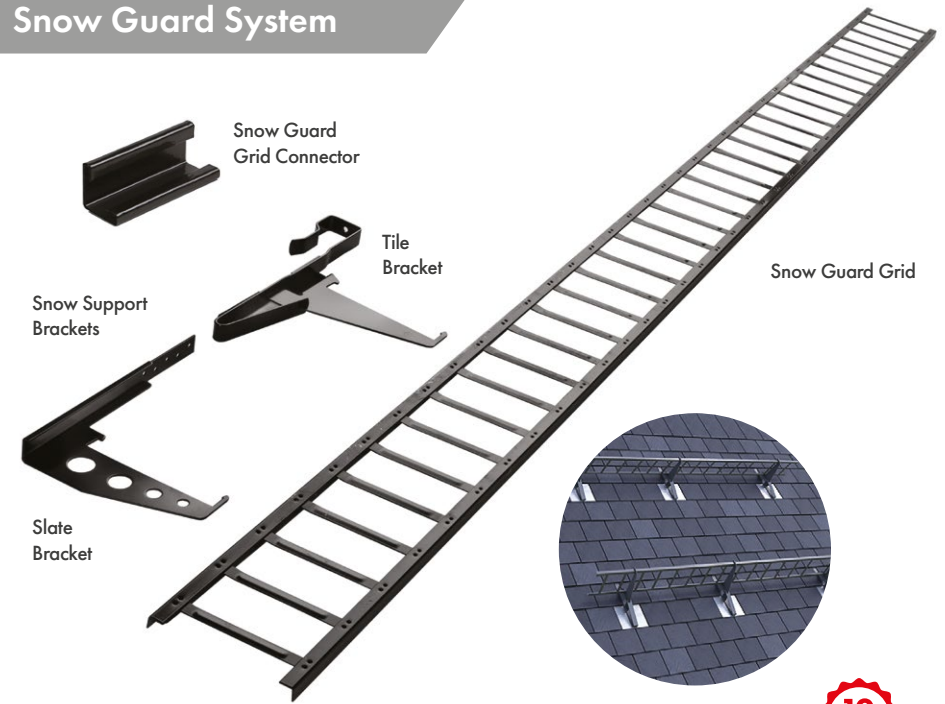
Key features

- Easy installation.
- Rotatable cap.
- Universal tile base.

Area of application

- For roof pitches between 16° - 65°.
- Can be used for twin cables with a diameter of 10 to 55 mm.

Snow Guard System



Prevents snow and broken tiles falling from pitched roofs.

Key features

- Lightweight and easy to fit.
- No need for additional batten support.
- Galvanised and powder coated.

Area of application

- For roof pitches 10° - 70°.
- Slate, clay and concrete interlocking tiles with battens between 24 - 40mm deep.
- Five snow support brackets required per grid.

Product code	Description	Width mm	Length mm	Weight kg	Colour	Box quantity
KS9210-1-9905	Snow Guard Grid	200	3000	3.75	Black	1
KS9220-2-9905	Snow Support Brackets for clay and concrete interlocking tiles	30	411	1.2		16
KS9221-1-9905	Snow Support Brackets for slate		349	0.6		20
KS9216-1-9905	Snow Guard Grid Connector	23	64	0.031		50

Loft Vent Tray



Product code	Width mm	Length mm	Depth mm	Colour	Box quantity
KP965000	315	700	30	Black	50

A barrier between the insulation and roof to provide a ventilation path.

Key features

- Can easily be installed from inside the loft, without disturbing the roof covering.
- Easily adjustable to pitch of roof.
- The perfect solution when upgrading loft insulation.

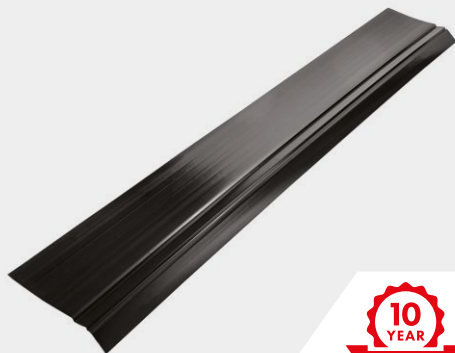
Area of application

Suitable for all roofs.

Related products

- Vented Eaves Protector KP3005 / KP3006 p36.
- Over Fascia Vent KP964300 / KP965200 p37.
- Underlay Support Tray KP973910 p32.
- Circular Soffit Vent KP9642 p37.

Underlay Support Tray



Product code	Width mm	Length m	Colour	Box quantity
KP973910	245	1.5	Black	20

Increases the longevity of the roofing membrane at the eaves.

Key features

- 55mm overhang provides drainage into the gutter, directing water away from the underlay.
- Prevents ponding behind the fascia and the underlay sagging between rafters.
- An economic replacement for rotting underlay at eaves, whilst protecting it from UV degradation.

Area of application

Suitable for all roofs.

Related products

- Over Fascia Vent, all sizes p37.
- Roll Out Rafter Tray, all sizes p33.
- Rafter Tray KP964900 / KP964800 p33.
- Klobber Membranes range p44-52.

Rafter Tray



Product code	Width mm	Length mm	Depth mm	Colour	Box quantity
KP964800	430	450	18	Black	100
KP964900		620			

A barrier and ventilation path between the insulation and roof, while preventing the entry of birds and insects.

Key features

- Protects against birds and insects, whilst allowing airflow into the roof space.
- Quick and easy to install.
- Lightweight and durable.

Area of application

- For roofs with a pitch over 15°.
- Closed and open rafters at 450mm and 600mm rafter centres.

Related products

- Over Fascia Vent KP965200 p37.
- Circular Soffit Vent KP9642 p37.
- Underlay Support Tray KP973910 p32.
- Vented Eaves Protector KP3005 / KP3006 p36.

Roll Out Rafter Tray



Product code	Width mm	Length m	Depth mm	Colour	Box quantity
KP971500	300	6	35	Black	10
KP975700	400				
KP971600	600				
KP971700	800				
KP971900	1000				5

A barrier and ventilation path between the insulation and roof.

Key features

- Available in five widths.
- Quick and easy to install.
- Lightweight and durable.

Area of application

- For roofs with a pitch over 12.5°.
- Suitable for all rafter centres.

Related products

- Vented Eaves Protector KP3005 / KP3006 p36.
- Over Fascia Vent KP964300 / KP965200 p37.
- Underlay Support Tray KP973910 p32.
- Circular Soffit Vent KP9642 p37.

3 IN 1 EAVES VENT PACK

EVERYTHING YOU NEED FOR EAVES VENTILATION.



Eaves Ventilation

3 in 1 Eaves Vent Pack



A 3-in-1 pack to cover 6m of eaves.

Key features

- Everything you need in one pack.
- Quick and easy to install.
- Prevents ponding behind the fascia board.

Area of application

450 - 600mm rafter centres.

Eaves Comb Filler



Prevents birds and larger insects from entering the batten cavity.

Key features

- Protects against birds and larger insects, whilst allowing airflow into the batten cavity.
- The integral fixing slots allow for quick and easy installation.
- Adjustable to suit any tile profile.

Area of application

Suitable for profile tiles.

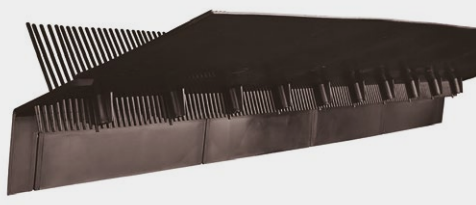
Related products

- Over Fascia Vent KP965200 / KP964300 p37.
- Underlay Support Tray KP973910 p32.

Product code	Length m	Height mm	Depth mm	Colour	Box quantity
KR0065-0402	1	60	27	Black	300

Product code	Size	Colour	Box contents
KP990200	10mm Vent and 300mm Rafter Tray	Black	6 Fascia Vents 10mm - 1m x 42mm x 25mm 25mm - 1m x 48mm x 38mm 10 Underlay Support Trays 265mm x 600mm 1 Roll Out Rafter Tray 6m x 35mm x 300/400/600/800mm
KP990400	10mm Vent and 400mm Rafter Tray		
KP990600	10mm Vent and 600mm Rafter Tray		
KP990800	10mm Vent and 800mm Rafter Tray		
KP966700	25mm Vent and 300mm Rafter Tray		
KP966400	25mm Vent and 400mm Rafter Tray		
KP966600	25mm Vent and 600mm Rafter Tray		
KP966800	25mm Vent and 800mm Rafter Tray		

Vented Eaves Protector



Product code	Description	Length m	Height mm	Colour	Box quantity
KP3005-0450	Without comb	1	220	Black	40
KP3006-0450	With comb				20

A faster and easier method of ventilating and protecting at the eaves.

Key features

- A 10mm fascia vent, underlay support tray and optional bird comb in one unit.
- Split drip section allows for quick and easy fixing of gutter brackets.
- Available in practical 1m lengths.

Area of application

- For roof pitches 15° - 60°.
- Option for flat and profiled tiles.

Related products

- Loft Vent Tray KP965000 p32.
- Roll Out Rafter Tray, all sizes p33.
- Rafter Tray KP964800 / KP964900 p33.

Eaves Closer



Product code	Length m	Height mm	Depth mm	Colour	Box quantity
KP3326-0450	2.5	50	30	Black	20
KP3327-0450		70			
KP3328-0450		90			

An eaves perimeter detail for counter batted roof systems.

Key features

- Prevents the entry of birds and insects into the counter batten cavity.
- Allows air movement into the counterbatten cavity.
- Lightweight and durable.

Area of application

All counter batted roofs.

Related products

Underlay Support Tray KP973910 p32.

Over Fascia Vent



Product code	Opening mm	Width mm	Length m	Depth mm	Colour	Box quantity
KP965200	10	42	1	25	Black	50
KP964300	25	48		38		

Discreet eaves ventilation to the roof void.

Key features

- Protects against birds and insects, whilst allowing airflow into the roof space.
- Discreet method of roof void ventilation.
- Lightweight and durable.

Area of application

- Conventional cold roofs (10mm vent).
- Warm roofs, flat roofs and pitched roofs below 15° (25mm vent).

Related products

- Roll Out Rafter Tray, all sizes p33.
- Rafter Tray KP964800 / KP964900 p33.
- Underlay Support Tray KP973910 p32.
- Loft Vent Tray KP965000 p32.

Circular Soffit Vent



Product code	Depth mm	Diameter mm	Colour	Box quantity
KP9642-0450	13	75	Black	50
KP9642-0900			White	

Provides eaves ventilation through the soffit.

Key features

- Available in two colours to match painted or stained soffits.
- Easy circular fixing that fits any thickness soffit board.
- Lightweight and durable.

Area of application

Suitable for installation in soffit boards on new build and refurbishments.

Related products

- Rafter Tray KP964800 / KP964900 p33.
- Roll Out Rafter Tray, all sizes p33.
- Loft Vent Tray KP965000 p32.



Membranes

Roof

Permo Ecovent	44
Permo Light	45
Permo Forte	46
Permo Air	47
Permo Extreme	48
Permo Sec Metal	49
Sepa Light	50

Wall and Vapour Control Layers

Sepa Solar	52
Permo Frame	53
Wallint 50	53
Accessories	54

UK Wind Zones Map For Membranes

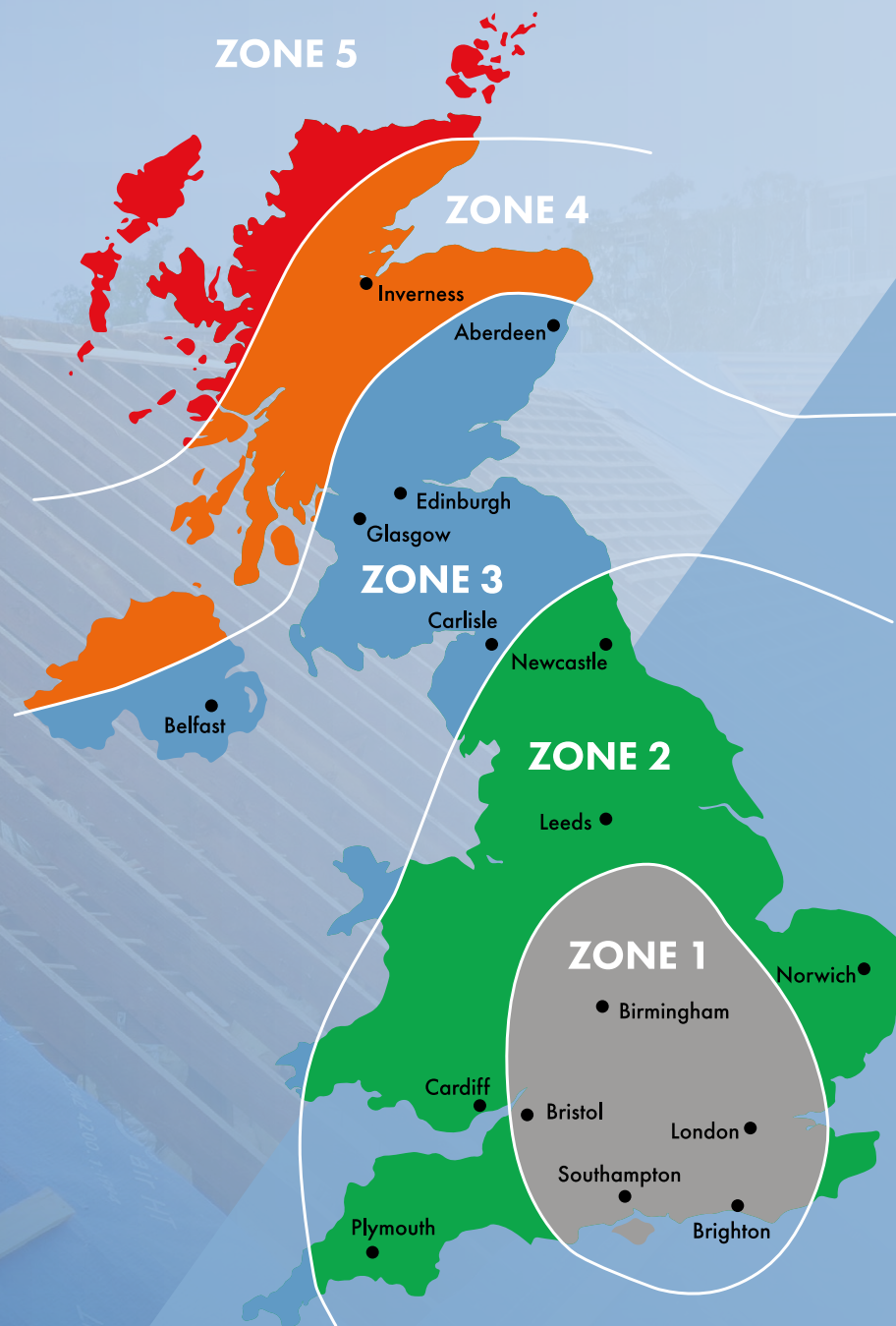
The UK wind zone map forms part of BS 5534, the code of practice for installing slates and tiles to new-build pitched roofs and vertical cladding. Manufacturers are required to provide information to show a membrane's zonal limitations.

All Klober membranes (found on pages 13-22), where appropriate, state which wind zone they are suitable for under the section heading 'Area of application', assuming a 345mm batten gauge is used.

Zone suitability applies only for membrane underlays in applications where a well-sealed ceiling is present and:

- Ridge height is not greater than 15m
- Roof pitch is between 12.5° and 70°
- Site altitude is not greater than 100m, and no significant site topography is present

Other applications might require underlays with greater wind uplift resistance and it is advisable to seek professional advice.



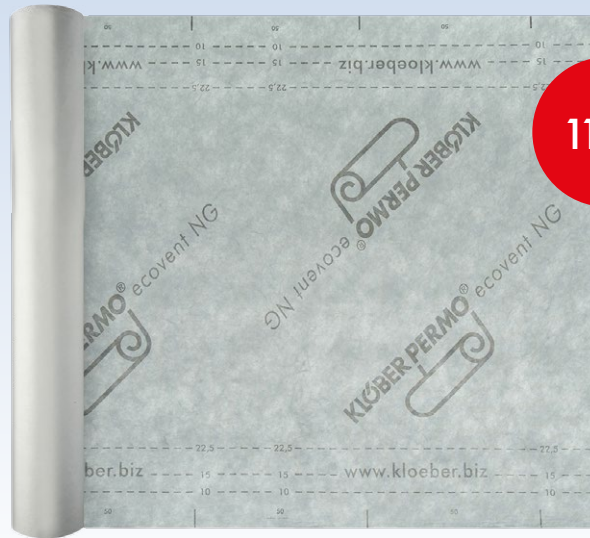
Choose the best membrane for you

From the most breathable roofing membrane, to one of the strongest, the **PERMO RANGE** provides a convenient, trusted solution for every roof.

	The Everyday Range		The Specialist Range			
Best For...				 Our most popular membrane		
						
	Entry-level solution	All-round performance	Extra strength	Most breathable	Low pitched roofs	Metal roofs
Product	ECOVENT Cost effective breathable membrane.	LIGHT High quality breathable membrane.	FORTE Breathable membrane with built-in grid.	AIR Greatly reduces the risk of condensation.	EXTREME Engineered for roofs as low as 12.5 degrees.	SEC METAL Waterproofing system for commercial roofs.
Weight (g)	110g	145g	145g	160g	240g	390g
Page	44	45	46	47	48	49



Traditional Ventilation	
Product	SEPA LIGHT Non-breathable alternative to 1F felt.
Weight (g)	120g
Page	50



110g

Permo's entry level vapour permeable membrane.

Key features

- A strong three-layer membrane, which is breathable and lightweight.
- Available with or without self-adhesive tape, which creates a strong and durable water and air tight seal, to reduce energy loss and provide strong protection against winds.
- BBA approved low resistance membrane

Area of application

- Suitable for cold and warm roofs.
- Wind zones 1-2 with battened headlap.
- All wind zones with taped headlap..

Related products

- Underlay Support Tray KP973910 p32.
- Permo Tape KU0121-1 p54.
- Tacto Tape KU0111 p55.

Product code	Width m	Length m	Weight g/m ²	Pallet quantity
KU0039-2	1.1	50	110	35
KU0039-2-15	1.5	50	110	30
KU0039-2-11-15 with tape				



145g

A strong 3-layer vapour permeable roofing membrane.

Key features

- High performing membrane suitable for most roofing projects.
- Durable three-layer breathable membrane.
- BBA approved low resistance membrane

Area of application

- Suitable for cold and warm roofs.
- Wind zones 1-3 with battened headlap.
- All zones with taped headlap.

Related products

- Underlay Support Tray KP973910 p32.
- Permo Tape KU0121-1 p54.
- Tacto Tape KU0111 p55.

Product code	Width m	Length m	Weight g/m ²	Pallet quantity
KU0043-04-05-1	1.1	50	145	20
KU0043-04-1	1.5			





145g

The strongest of the Permo range, complete with a reinforced safety grid.

Key features

- Strong four-layer membrane, which includes a reinforced grid that offers additional strength and safety benefits.
- Available with or without self-adhesive tape, which creates a strong and durable water and air tight seal, to reduce energy loss and provide strong protection against winds.
- BBA approved low resistance membrane.

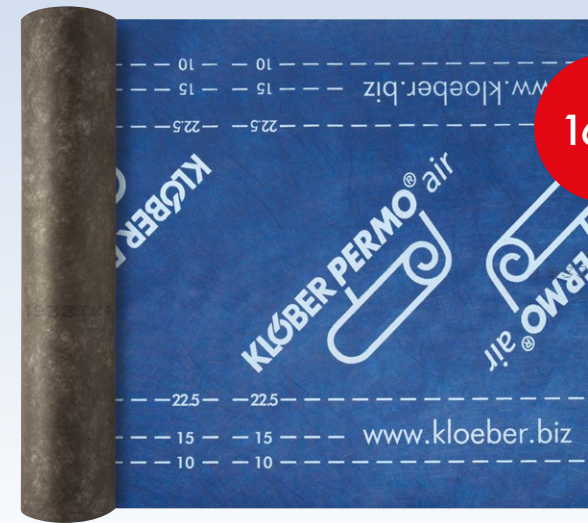
Area of application

- Suitable for cold and warm roofs.
- Wind zones 1-4 with battened headlap.
- All wind zones with taped headlap.

Related products

- Underlay Support Tray KP973910 p32.
- Permo Tape KU0121-1 p54.
- Tacto Tape KU0111 p55.

Product code	Description	Width m	Length m	Weight g/m ²	Pallet quantity
KU0044-07-05-1		1.1	50	145	20
KU0044-07-1		1.5			
KU0044-07-11-1	With tape	1.5			



160g

Permo Air, our most breathable air open membrane.

Key features

- Klober's most breathable air-open, vapour permeable roof membrane, available with or without adhesive tape.
- Assists during the drying out period of a building, such as new builds.
- BBA & NHBC approved as needing no additional high level ventilation, making it a time and cost effective solution.

Area of application

- Suitable for cold and warm roofs.
- Wind zones 1-3 with battened headlap.
- All wind zones with taped headlap.

Related products

- Underlay Support Tray KP973910 p32.
- Permo Tape KU0121-1 p54.
- Tacto tape KU0111 p55.

Product code	Description	Width m	Length m	Weight g/m ²	Pallet quantity
KU0045-1		1	50	160	20
KU0045-15		1.5			
KU0045-11-1	With tape	1			
KU0045-11-15	With tape	1.5			





240g

Strong and watertight, Permo Extreme is the UK's leading low pitched roof membrane.

Key features

- Offers design flexibility by enabling you to use tiles below their recommended minimum pitch, such as extensions or lean-to's.
- The fleece layer greatly reduces the risk of condensation forming.
- Independently tested to 1 in 50 year storm conditions, whilst the self-adhesive tape creates added strength and durability for a water and air tight seal.

Area of application

- Minimum roof pitch of 12.5° for interlocking tiles, 15° for slates and 22.5° for plain tiles.
- Wind zones 1-5.
- High resistance membrane so requires ventilation.

Related products

- Underlay Support Tray KP973910 p32.
- Butylon Tape KU0104 p54.
- Pasto Sealant KU0128 p55.
- Over Fascia Vent KP964300 / KP965200 p37.
- Roll Out Rafter Tray, all sizes p33.

Product code	Width m	Length m	Weight g/m ²	Pallet quantity
KU0171-11	1.5	50	240	12
KU0171-11-25		25		30



390g

A vapour permeable waterproofing solution for metal roofs.

Key features

- Breathable and waterproof, acting as a secondary barrier to moisture penetration.
- Prevents condensation that occurs on the underside of the metal roof covering from re-entering the roof structure.
- Acoustic value of 8db to help reduce the transmission of external sounds, such as heavy rain

Area of application

- Suitable for metal roofs with a minimum pitch of 3°.
- Can be laid over rigid insulation or timber boarding.

Related products

- Permo Tape KU0121-1 p54.
- Tacto Tape KU0111 p55.
- Butylon Tape KU0104 p54.

Product code	Width m	Length m	Weight g/m ²	Pallet quantity
KU0020-04	1.5	25	390	4



TRADITIONAL VENTILATION



A non-breathable membrane for ventilated roofs.

Key features

- The high-resistance membrane is a strong lightweight alternative for ventilated pitched roofs.
- Absorbent inner layer as recommended in BS 5250.
- High tensile and nail tear strength

Area of application

- Suitable for use on ventilated pitched roofs.
- Wind zones 1-2 with battened headlap.
- All wind zones with taped headlap.

Related products

- Underlay Support Tray KP973910 p32.
- Over Fascia Vent KP965200 / KP964300 p37.
- Roll Out Rafter Tray, all sizes p33.
- Permo Tape KU0121-1 p54.
- Tacto Tape KU0111 p55.

Product code	Width m	Length m	Weight g/m ²	Pallet quantity
KU979145-1	1	45	120	42



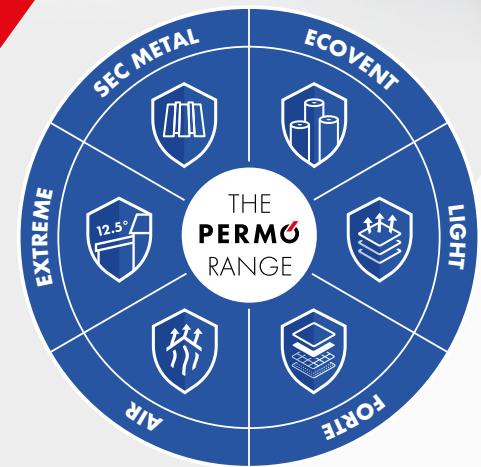
KLOBER



A membrane for every roof

PERMO

From the most breathable roofing membrane, to one of the strongest, the **PERMO RANGE** provides a convenient and trusted solution for every roof.



Find out more at klober.co.uk



Sepa Solar



An air barrier and vapour control layer with a reflective surface that reduces heat loss.

Key features

- Silver reflective surface increases thermal resistance.
- Prevents large amounts of water vapour entering the construction from the inside.
- With 500 MNsg vapour resistance it exceeds BS 9250 requirements.

Area of application

- Suitable for cold and warm roofs.
- The inner face of an insulated roof, wall or ceiling, including timber frame.

Related products

- Pasto Sealant KU0128 p55.
- Permo Tape KU0121-1 p54.
- Tacto Tape KU0111 p55.
- Underlay Sealing Collar KE8090/KE8091 p54

Product code	Width m	Length m	Weight g/m ²	Pallet quantity
KU0092	1.5	50	173	20



Permo Frame



Specifically designed for timber framed walls and vertical cladding.

Key features

- Protects timber and insulation during construction and on completion.
- Allows the wall structure to breathe.
- Highly vapour permeable with no risk of condensation build up.

Area of application

Suitable for use on timber and steel framed walls, factory pre-assembled panels, on-site assembled frames and suspended timber ground floors to support insulation.

Related products

- Permo Tape KU0121-1 p54.
- Tacto Tape KU0111 p55.

Product code	Width m	Length m	Weight g/m ²	Pallet quantity
KU0059-3-1-15-10	1.5	50	100	42
KU0059-3-1-27-10	2.7	100		20

Wallint 50



An air barrier and vapour control layer with exceptional vapour resistance, preventing infiltration into the construction interior.

Key features

- Prevents large volumes of water vapour entering from the interior, particularly during the drying out period.
- Can be used with other Klobber products that reduce energy loss.
- Support for insulation boards or quilts.

Area of application

- Suitable for cold and warm roofs.
- The inner face of an insulated roof, wall or ceiling, including timber frame.

Related products

- Pasto Sealant KU0128 p55.
- Permo Tape KU0121-1 p54.
- Tacto Tape KU0111 p55.
- Underlay Sealing Collar KE8090/KE8091 p54.

Product code	Width m	Length m	Weight g/m ²	Pallet quantity
KU0065	1.5	50	120	20

Underlay Sealing Collar

Creates an airtight seal around cables, which pass through the roof.



Key features

- Creates an airtight seal around cables passing through the roof.
- Easy to install with self adhesive collar.
- Ideal for solar cables.

Area of application

- For pipe diameters 42-55mm and 50-70mm.

Product code	Description	Width mm	Length mm	Height mm	Box quantity
KE8090	Fits collar sizes 42-55mm	228	228	60	2
KE8091	Fits collar sizes 50-70mm				

Permo Tape

Permo Tape is a multifunctional tape to create airtight seals between laps in membranes or vapour control barriers.



Key features

- Single sided tape with reinforced mesh providing extra strength.
- Its primary use is for joining, repairing and creating airtight seals.
- An essential product for preventing loss of energy from the roof.

Area of application

Suitable for all pitched roofs, including ceilings and walls of rooms-in-the roof, and on the ceilings below.

Related products

- Klover Membranes range p44-53.

Product code	Width mm	Length m	Box quantity
KU0121-1	60	25	10

Butylon Tape

Butylon Tape is watertight, double sided and ideal for making airtight seals.



Key features

- Self sealing tape around nail penetrations.
- Ideal for creating airtight seals.
- Strong and watertight.

Area of application

- Sealing nail penetrations as well as membranes, air barriers or vapour control layers to both smooth and rough surfaces.
- A necessity when using Permo Extreme.

Related products

- Klover Membranes range p44-53.

Product code	Width mm	Length m	Box quantity
KU0103	20	25	4
KU0104	50	25	2

Tacto Tape



Tacto Tape is a double sided, fibre reinforced tape, ensuring airtight seals.

Key features

- It provides a strong adhesion for both membranes and vapour control layers.
- Creates air and wind-tight seals helping to reduce energy loss.
- Highly resistant to changes in temperature and weather.

Area of application

Seals laps between membranes or vapour control layers and air barriers.

Related products

- Klover Membranes range p44-53.

Product code	Width mm	Length m	Box quantity
KU0111	20	50	10

Pasto Sealant



Pasto is a gun applied sealant for multiple surfaces.

Key features

- Ideal for creating air and wind-tight seals between membranes, vapour control layers/air barriers and rough surfaces.
- Acts as a sealant on absorbent materials including brick, sandstone, concrete and gypsum fibreboard.

Area of application

Sealing holes in plasterboard ceilings where services pass through vapour control layers and air barriers.

Related products

- Klover Membranes range p44-53.

Product code	Size ml	Box quantity
KU0128	310	12

Dry Verge and Valleys

Dry Verge	59
GRP & Dry Valleys	65
Bonding Strips & Secret Gutters	66

UNI-LINE CONTINUOUS DRY VERGE



A SECURE AND NEAT FINISH
WHEN FIXING INTERLOCKING
VERGE TILES AND SLATES.

Verges

Uni-Line Continuous Dry Verge



A continuous dry verge system for a secure and neat finish when fixing interlocking verge tiles and slates.



Key features

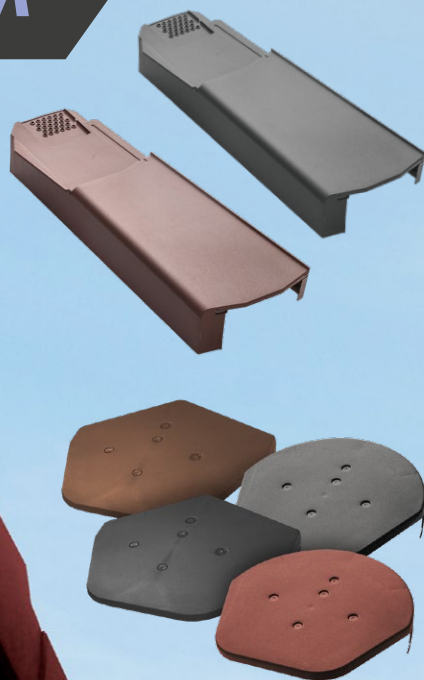
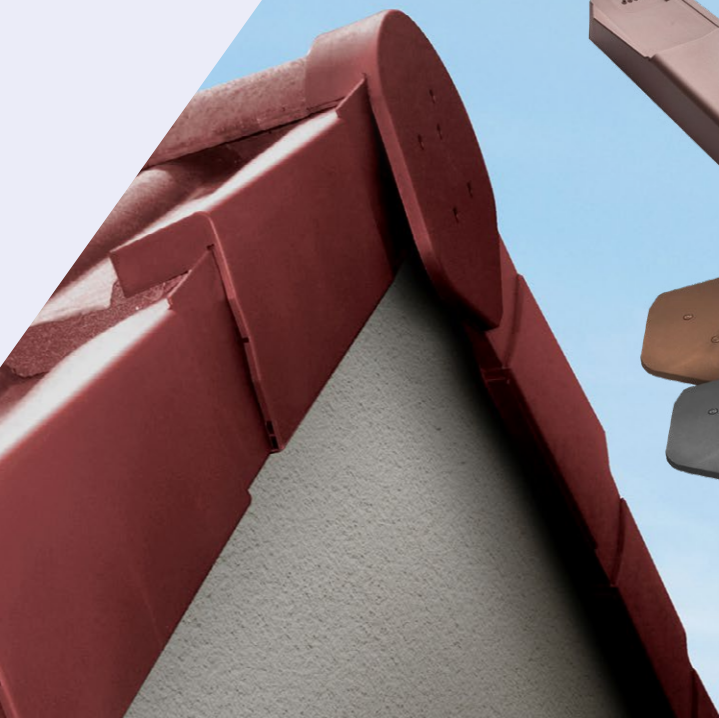
- Mortar free meaning it's safer and quicker to install compared to traditional dry verge.
- Its secure mechanical fixing, which complies with BS 8612 and BS 5534, means it's easy to fit with no special tools required.
- Weatherproof and maintenance free.

Area of application

- For roof pitches over 12.5°.
- T Strip - suits most interlocking tiles.
- S Strip - natural and man made slates up to 8mm in thickness.
- Scot Strip - natural and man made slates up to 8mm in thickness, on boarded roofs with top of batten fixing.

Product code	Description	Width mm	Length mm	Height mm	Colour	Pack quantity
KR980376	T Strip	136	5000	94	Black	4
KR980377					White	
KR980378					Brown	
KR980379					Grey	
KR980576	Connector to T Strip				Black	2
KR980577					White	
KR980578					Brown	
KR980579					Grey	
KR980476	S Strip	100	5000	63	Black	4
KR980580	Connector to S Strip				Black	2
KR980676	Scot Strip	80	5000	45	Black	4
KR977236	Half Round Ridge End Cap				Brown	10 pairs
KR977276					Black	
KR977277					White	
KR977230					Grey	
KR977336	Universal Angle Ridge End Cap				Brown	10 pairs
KR977376					Black	
KR977377					White	
KR977330					Grey	

UNI-CLICK DRY VERGE SYSTEM



**MORTAR FREE AND SECURE
FIXING FOR CONCRETE
INTERLOCKING VERGE TILES.**

Verges

Uni-Click Dry Verge System

Designed to provide a mortar free and secure method of fixing concrete interlocking verge tiles.

Key features

- Mortar free meaning it's safer and quicker to install compared to traditional dry verge.
- Weatherproof and maintenance free.
- Its secure mechanical fixing, which complies with BS 8612 and BS 5534, means it's easy to fit with no special tools required.

Area of application

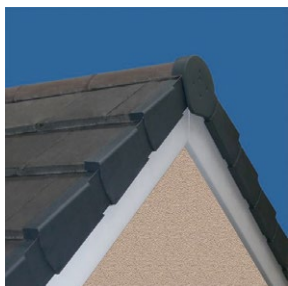
- For roof pitches over 12.5°.
- Suitable for most profiles of concrete interlocking tiles, between 260 - 350mm batten gauge.



Product code	Description	Width mm	Length mm	Depth mm	Colour	Box quantity
KR9765-0152	 Left Dry Verge	148	403	56	Terracotta	50
KR9765-0247					Brown	
KR9765-0429					Slate Grey	
KR9765-0450					Black	
KR9770-0152	 Right Dry Verge				Terracotta	
KR9770-0247					Brown	
KR9770-0429					Slate Grey	
KR9770-0450					Black	
KR977230	 Half Round Ridge End Cap				Grey	10 pairs
KR977234					Terracotta	
KR977236					Brown	
KR977276					Black	
KR977330	 Universal Angle Ridge End Cap				Slate Grey	
KR977334					Terracotta	
KR977336					Brown	
KR977376					Black	
KR973330-1	 Eave and Ridge Pack				Grey	2 x Eave Closers and 2 x Ridge (20 packs)
KR973334-1					Terracotta	
KR973336-1					Brown	
KR973376-1					Black	
KR977100	Batten End Clips					500

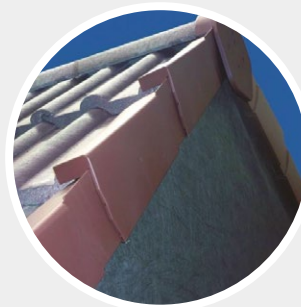


CONTRACT DRY VERGE



Verges

Contract Dry Verge



Cost-effective, mortar free dry verge system.

Key features

- Mortar free meaning it's safer and quicker to install compared to traditional dry verge.
- Weatherproof and maintenance free.
- Its secure mechanical fixing, which complies with BS 8612 and BS 5534, means it's easy to fit with no special tools required.

Area of application

- For roof pitches over 12.5°.
- Suitable for most profiles of concrete interlocking tiles, between 260 - 350mm batten gauge.

Product code	Description	Width mm	Length mm	Depth mm	Colour	Box quantity
KR9785-0247	Left Dry Verge	148	409	68	Brown	50
KR9785-0429					Grey	
KR9790-0247	Right Dry Verge				Brown	
KR9790-0429					Grey	
KR977230	Half Round Ridge End Cap				Grey	10 pairs
KR977236					Brown	
KR977330					Slate Grey	
KR977336	Universal Angle Ridge End Cap				Brown	
KR973330-1	Eave and Ridge Pack				Grey	2 x Eave Closers and 2 x Ridge (20 packs)
KR973336-1					Brown	
KR977100	Batten End Clips					500

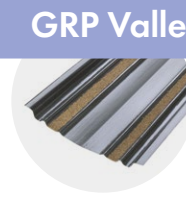
REQUIRES NO MAINTENANCE
WEATHERPROOF AND
QUICK TO INSTALL.

GRP & DRY VALLEYS

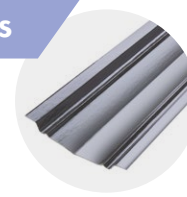
AN EXCELLENT ALTERNATIVE TO LEAD AND ALLOWS WATER TO SAFELY RUN OFF THE ROOF.

GRP & Dry Valleys

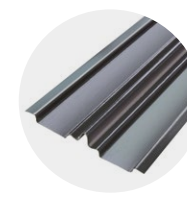
GRP Valleys



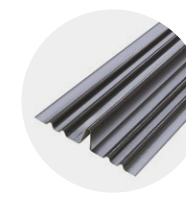
Tile Valley Trough



Slate Valley Trough



Dry Valley Trough



Under Batten Valley



Lightweight alternative to lead and zinc valleys.

Key features

- Lightweight and flexible to handle for a safe and easy installation.
- A cost effective alternative to lead.
- Fire tested to comply with BS 476: Part 3 SAB and Part 7 Class 3.

Area of application

- 20° maximum pitch variance 17.5° - 60° rafter pitch.
- Options for tile and slate pitched roofs.

Product code	Description	Width mm	Length mm	Height mm	Colour	Pack quantity
KR965210	Tile Valley Trough	360	3000		Grey	10
KR965610	Slate Valley Trough	330				
KR966000	Slate Dry Valley Trough	400		70		
KR966100	Tile Dry Valley Trough			110		
KR966080	Under Batten Dry Valley for slate, flat and plain tiles*	400		80		
KR966105	Under Batten Dry Valley for profile tiles*			105		

*Under Batten Valley not covered by BBA

Dry Valley Closer



Finishing and flashing of dry fix valley troughs.

Key features

- Provide a neat finish in the roof line.
- Single and double closer available.

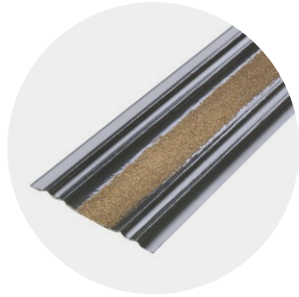
Area of application

- Eaves detail and dormer roofs.
- Compatible with Dry Valley Troughs only. (not compatible with under batten dry valley)

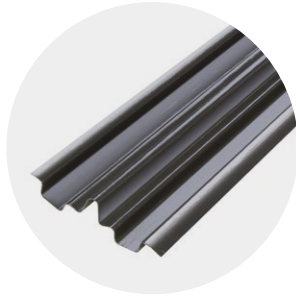


Product code	Description	Height mm	Colour	Box quantity
KR9660-1-0070	Single	70	Grey	1
KR9660-2-0070	Double			
KR9661-1-0110	Single	110		
KR9661-2-0110	Double			

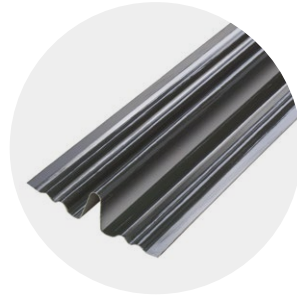
Bonding Strips



Bonding Strip



Dry Bonding Strip



Under Batten Dry Bonding Strip

Watertight junction above the party wall between different roof finishes.

Key features

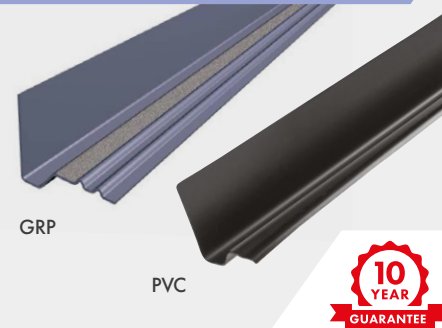
- Provides a weathertight junction between differing roof finishes.
- Lightweight and flexible to handle for quick and easy installation.
- Safe and easy to cut, whilst the dry bonding strip is mortar free.



Product code	Description	Width mm	Length mm	Height mm	Colour	Pack quantity
KR965710	Bonding Strip	216	3000		Grey	10
KR966500	Dry Bonding Strip for slate, flat and plain tiles	225		70		
KR966600	Dry Bonding Strip for profile tiles			110		
KR966700	Under Batten Dry Bonding Strip for slate, flat and plain tiles	210		70		
KR966750	Under Batten Dry Bonding Strip for profile tiles	210		100		

*Under Batten Valley not covered by BBA

Secret Gutter



Secondary line of defence against wind driven rain at wall abutments.

Key features

- Durable and lightweight to handle for quick and easy installation.
- The anti-capillary rib provides extra watertightness.
- A cost effective alternative to lead.

Area of application

Flat interlocking tiles.

Product code	Description	Width mm	Length mm	Colour	Pack quantity
KR972000	PVC	97	3000	Black	5
KR972010	NEW GRP	140	3000	Grey	10

Bird Deterrent



Prevents birds from landing and nesting on structures.

Key features

- Quick and easy to install by simply bending into shape and screwing in place.
- Rounded end to spikes makes them safe to handle and prevents birds from being injured.
- Highly durable, weather resistant galvanised steel.

Product code	Length mm	Height mm	Box quantity
KB7781	500	75	10



KLOBER

Ridge and Hip

Dry Ridge and Hip Systems	71
Accessories	77

DRY RIDGE & HIP KITS YOU CAN TRUST


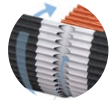






Klober Dry Ridge and Hip Systems

Our complete range of dry ridge kits



CHOOSE BETWEEN OUR PREMIUM ROLL FIX KITS OR ENTRY-LEVEL ECONOMY SYSTEMS.



	Product	Application	Stainless Steel Fixings	Colours	Length	Roll Ventilation
KR5100	 Roll Fix Universal Kit P72	Clay & Concrete	✓			 Roll Fix Breathable Fleece
KR5000	 Roll Fix Concrete Kit P73	Best for Concrete	✓	● Anthracite	5m	 Ranked No.1 by roofers when it came to the easiest kit to install.*
KR5001	 Roll Fix Concrete Hip Kit P74	Best for Hips	✓	● Red ● Brown		
KR5003	 Roll Fix Clay Half Round Ridge Kit P75	Best for Clay	✓			
KR5200	 Economy Dry Ridge Kit P76 NEW	Clay & Concrete	✓	● Black	6m or 10m	 Perforated for Ventilation

*Based on Klober research comparing installation of their Universal Roll Fix Kit to those offered by other leading UK brands.

Roll Fix Universal Kit



A universal ventilating dry ridge and hip system for concrete and clay.

Key features

- Mortar free, making it quick to install in most weathers.
- Complies with BS 8612 for performance, BS 5250 for ventilation and BS 5534 for mechanical fixing.
- The lightweight all in one kit, makes it safe and easy to handle.

Area of application

- Suits most clay and concrete ridge tiles.
- Can be used on 300mm clay ridge tiles, with the clay conversion kit.
- Can be used on hips however trays and clips are not included.

Related products

- Flashing Glue PACCGl p87.
- Ridge End Caps, all colours p61/63.

Product code	Description	Colour	Pack contents	Pallet quantity
KR5100-0100	Roll Fix Kit	Red	1 x Roll (295mm x 5m), 11 x Ridge to ridge seals, 11 x Stainless steel screws and washers (100mm), 11 x Clamping plates, 9 x Ridge batten straps	72
KR5100-0200		Brown		
KR5100-0402		Anthracite		
KR5100-6	Conversion Kit for Clay Ridge	Black	6 x Ridge to ridge seals, 6 x Stainless steel screws and washers (100mm), 6 x Clamping plates	
KR0200-51	Ridge Seal replacement		1 x Ridge to ridge seals	

Roll Fix Concrete Kit



A universal ventilating dry ridge and hip system, best suited for concrete.

Key features

- The seal comes with fixed lugs for easy application on concrete ridge and hips.
- Mortar free, making it quick to install in most weathers.
- Complies with BS 8612 for performance, BS 5250 for ventilation and BS 5534 for mechanical fixing.

Area of application

- Suits most concrete ridge tiles.
- Can be used on clay ridge tiles, where lugs do not interfere. Additional fixings would be required for 300mm clay ridge tiles.
- Can be used on hips however trays and clips are not included.

Related products

- Flashing Glue PACCGl p87.
- Ridge End Caps, all colours p61/63.

Product code	Description	Colour	Pack contents	Pallet quantity
KR5000-0100	Roll Fix Kit	Red	1 x Roll (295mm x 5m), 11 x Ridge to ridge seals, 11 x Stainless steel screws and washers (100mm), 11 x Clamping plates, 9 x Ridge batten straps	60
KR5000-0200		Brown		
KR5000-0402		Anthracite		
KR0200	Ridge Seal replacement	Black	1 x Ridge to ridge seals	

Roll Fix Concrete Hip Kit



A universal ventilating dry hip system, best suited for concrete.

Key features

- Everything you need in one kit to complete the job, including trays and clips.
- The seal comes with fixed lugs for easy application on concrete ridge and hips.
- Complies with BS 8612 for performance, BS 5250 for ventilation and BS 5534 for mechanical fixing.

Area of application

- Suits most concrete hips.
- Can be used on clay hip tiles, where lugs do not interfere, when used with the clay conversion kit.

Related products

- Flashing Glue PACCGl p87.

Product code	Description	Colour	Pack contents	Pallet quantity
KR5001-1-0100	Roll Fix Kit	Red	1 x Roll (295mm x 5m), 11 x Ridge to ridge seals 11 x Stainless steel screws and washers (100mm), 25 x Cro clips, 12 x Hip support trays (470mm), 11 x Clamping plates	40
KR5001-1-0200		Brown		
KR5001-1-0402		Anthracite		
KR5001-6	Roll Fix Conversion Kit for Clay Hip	Black	6 x Ridge to ridge seals, 6 x Stainless steel screws and washers (100mm), 6 x Clamping plates	
KR0201	Ridge Seal replacement for Concrete Hip Kit		1 x Ridge to ridge seals	

Roll Fix Clay Half Round Ridge Kit



A universal half round dry ridge system, for clay ridge tiles.

Key features

- Mortar free, making it quick to install in most weathers.
- Rigid seal designed specifically for clay half round ridge.
- Complies with BS 8612 for performance, BS 5250 for ventilation and BS 5534 for mechanical fixing.

Area of application

- Suits most half round clay ridge tiles.

Related products

- Flashing Glue PACCGl p87.

Product code	Description	Colour	Pack contents	Pallet quantity
KR5003-0100	Roll Fix Kit	Red	1 x Roll (295mm x 5m), 17 x Ridge to ridge seals, 17 x Stainless steel screws and washers (100mm) 17 x Clamping plates, 9 x Ridge batten straps	40
KR5003-0200		Brown		
KR5003-0402		Anthracite		
KR999300	Ridge Seal Replacement for Clay Half Round Ridge	Black	1 x Ridge to ridge seal	

Economy Dry Ridge Kit

An economical universal dry ridge and hip system for concrete and clay.



Key features

- Available in both 6m and 10m sizes, depending on the property size.
- The all-in-one kit means you have everything required to complete the job.
- Lightweight, for safe and easy handling.

Area of application

- Suits most clay and concrete ridge tiles.
- Can be used on 300mm clay ridge tiles, with the clay conversion kit.
- Can be used on hips however trays and clips are not included.



Related products

- Flashing Glue PACCGl p87.
- Ridge End Caps, all colours p61/63.

Product code	Description	Colour	Pack contents	Pallet quantity
KR5200-06-0450	6m Dry Ridge Kit	Black	1 x Roll (300mm x 6m), 13 x Ridge to ridge seals, 13 x Stainless steel screws and washers (100mm), 13 x Clamping plates, 11 x Ridge batten straps	72
KR5200-10-0450	10m Dry Ridge Kit	Black	1 x Roll (300 x 10m), 22 x Ridge to ridge seals, 22 x Stainless steel screws and washers (100mm), 22 x Clamping plates, 17 x Ridge batten straps	48
KR5200-6	Conversion Kit for Clay Ridge*	Black	7 x ridge to ridge seals, 7 x Stainless steel screws and washers (100mm), 7 x Clamping plates <small>*conversion kit KR5200-6 includes sufficient additional items for a 6m run, 2 packs would be required for a 10m run</small>	
KR0200-51	Ridge Seal replacement	Black	1 x Ridge to ridge seals	

Fixings and Replacement Accessories



Product code	Description	Width mm	Length mm	Colour	Pack contents
KR2000-50-33-0100	Roll Fix 295 roll replacement	295	5000	Red	1
KR2001-50-UK-0402	Roll Fix 295 roll replacement			Anthracite	
KR3000-50-33-0402	Roll Fix 390 roll replacement	390			
KR9670-0450	Angled Clamping Plates for Roll Fix Dry Ridge			Black	11
KR9694-0450	Flat Clamping Plates for Clay Half Round Ridge				17
KR969500	Pack Uni Dry Screws/Washers				11
KR978000	Batten Straps Pack				
KR0156	Fixing Clip for Hip and Valley (Cro Clips)			Black	25 x Clips
KP973700	Hip Support Tray		470		12 x Trays
KP973120	Hip Support Tray		1200		10 x Trays
KP973175	Hip Support Tray		1750		15 x Trays



Lead Alternatives

Flashing Rolls	81
Accessories	84

WAKAFLEX LEAD FREE FLASHING FROM KLOBER

SIMPLY THE BEST



Wakaflex is our ultimate lead free flashing solution for a simple installation and smooth finish.

Lead-like touch and appearance

Stretches up to 50% when dressed to the pan of the tile

Unique self welding effect requiring no specialist tools



KLOBER

KLOBER.CO.UK

Flashing Rolls

Wakaflex



Lead Alternatives / Flashing Rolls

Wakaflex is a fantastic lead free alternative to conventional lead flashing.

Key features

- Highly stretchable in length and width when dressed into the pan of the tile.
- Unique product composition with a self-welding effect.
- Non toxic and lightweight material with no scrap value.

Area of application

For use on chimney, abutment and saddle details on pitched roofs, in conjunction with any tiles and slates, as an alternative to lead flashing.

Related products

- Flashing Roller width 4cm PACCRO p86.
- Flashing Sealant PACCSE p87.
- Flashing Glue PACCGL p87.

Product code	Width mm	Length m	Weight kg	Colour	Box quantity
PWF140GR	140	5	2.65	Lead Grey	2
PWF180GR	180		3.3	Lead Grey	4
PWF280AN	280		4.7	Anthracite	
PWF280GR		Lead Grey			
PWF280GR-10		10	9.4	Lead Grey	2
PWF370AN	370	5	6.3	Anthracite	3
PWF370GR				Lead Grey	
PWF560AN	560		9		Anthracite
PWF560GR		Lead Grey			



EASY DOES IT



- Lightweight and easy to install
- A non-toxic alternative to lead
- No welding or specialist tools required

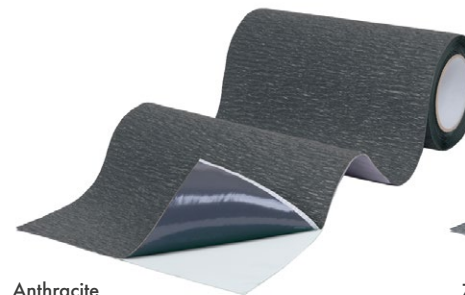
A lead free flashing that is easy to install and easy on the environment.

KLOBER.CO.UK



Flashing Rolls

EasyForm



Anthracite



Zinc Grey



Offers a non toxic flashing solution for abutments at walls, chimneys and rising parts of structures on pitched and flat roofs.

Key features

- Universal, flexible material suitable for all tile, clay and slate profiles.
- Available in two colours to blend in with the roofline.
- A less expensive non toxic solution which avoids the disadvantages of lead.

Area of application

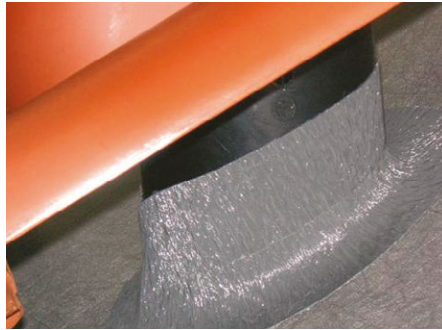
- Abutment walls, chimneys and rising parts of structures such as dormers and other abutments.
- Suitable for both new build and refurbishment.

Related products

- Flashing Glue PACCGl p87.
- Flashing Sealant PACcSE p87.
- Flashing Roller PACcRO p86.

Product code	Width mm	Length m	Weight kg	Colour	Box quantity
KW0200-05-0469	200	5	1.62	Anthracite	5
KW0250-05-0469	250		2.06	Anthracite	
KW0300-05-0469	300		2.44	Anthracite	
KW0300-05-0470				Zinc Grey	
KW0450-05-0469	450		3.69	Anthracite	2
KW0450-05-0470				Zinc Grey	
KW0600-05-0469	600	4.5	Anthracite		

EasyForm Tape



Multi functional flexible tape.

Key features

- Can be used for a multitude of applications on the roof.
- Can stretch up to 70% lengthways, allowing tight seals to be created around traditionally difficult areas.
- Its butylon backing offers excellent adhesion and is highly resistant to ageing.

Area of application

- Can be used internally and externally around roof penetrations such as TV antennae, cables and pipes.
- Suitable for repairing roofing underlays and for around corners of skylights.

Product code	Width mm	Length m	Colour	Box quantity
KW0060	60	10	Anthracite	8
KW0090	90			6

Related products

- Klober Membranes range p44-53.

Wakaflex Uni Outlet



The Wakaflex Uni Outlet is ideal for sealing penetrations on roofs.

Key features

- Aesthetically pleasing alternative to lead or aluminium slate with a high quality finish.
- Long life due to polymer surface of Wakaflex and high quality EPDM material.
- Size guide on the collar to cut it to fit between 25 - 125mm.

Area of application

- Suitable for concrete, clay tiles and slates.
- For roof pitches between 18° - 45°.

Related products

- Flashing Glue PACCGI p87.
- Flashing Roller PACCRO p86.



Product code	Width mm	Length m	Weight kg	Colour	Box quantity
PWFUO560GR	560	450	1.7	Lead Grey	10

Flashing Roller



Roller to give a perfect finish to Wakaflex and EasyForm lead free flashing.

Key features

- Ensures effective contact between flashing and roof.
- The roller has chamfered edges to prevent the flashing from being marked or damaged.

Area of application

- Lead free flashings.

Related products

- Wakaflex lead free flashing, all sizes p81.
- EasyForm, all sizes p83.
- Wakaflex Uni Outlet PWFUO560GR p85.

Product code	Width mm	Box quantity
PACCRO	35	12

Flashing Glue



A gun applied glue for flashings.

Key features

- Flashing glue makes it possible to install a flashing in the rain.
- Unlike some other adhesives, once opened it can be resealed and used again.

Area of application

- Wakaflex, all sizes.
- EasyForm Plus, all sizes

Related products

- Wakaflex, all sizes PWF140GR p81.
- EasyForm, all sizes KW4250 p83.
- Roll Fix Kits p72-76.

Product code	Size ml	Colour	Box quantity
PACCGL	290	Black	12

Flashing Sealant



A sealant for Wakaflex and EasyForm lead free flashing.

Key features

- To be used alongside Klober's lead free alternative products.
- It comes in a 310ml application tube that fits inside a standard caulking gun.

Area of application

To seal apron and step flashings into brick and block work.

Related products

- Wakaflex, all sizes PWF140GR p81.
- EasyForm, all sizes KW4250 p83.

Product code	Size ml	Colour	Box quantity
PACCSE	310	Transparent	12

Our NEW Dry Ridge Kit goes even further!

The latest addition to Klober's trusted dry ridge systems range now comes in two sizes, **6m & 10m Kits.**





Flat Roofing

Drainage Outlets	90
Cable Outlets	92
Ventilation Outlets	93
Mechanical Ventilation Outlets	95
Accessories	96

Flavent Rainwater Outlet Grill



Leaf grill for optimum water drainage.

Key features

- Leaf and gravel grill for Klober Drainage Outlets.
- Made from high impact PVC.

Area of application

- For optimum drainage of flat roofs.

Related products

- Rainwater Outlet Vent Base with PVC Flange KF6500, all sizes p92.
- Rainwater Outlet Vent Base with Bitumen Skirt KF6501, all sizes p91.
- Rainwater Parapet Outlet KF6530-1, all sizes p91.

Product code	Description	Height mm	Diameter mm
KF6819	Compatible with Klober 70mm Rainwater Outlets and Parapet Outlets	80	70
KF6826	Compatible with Klober 100mm Rainwater Outlets and Parapet Outlets	110	100
KF6827	Compatible with Klober 125mm Rainwater Outlets and Parapet Outlets	110	125

Flavent Rainwater Outlet Vent Base with PVC Flange



Outlet with PVC Flange provides perfect waterproof connection of PVC membranes and liquid plastics.

Key features

- Slender inlets for narrow roof penetrations which can be inserted into existing pipes.
- PVC Flange provides perfect waterproof connection of PVC membranes and liquid plastics.

Area of application

- For optimum drainage of flat roofs.
- Optional pipe extension allows for all thermal insulation thicknesses.

Related products

- Rainwater Outlet Grill KF6819, all sizes p90.
- Insulation Package Pipe Extension KF6836, p96.
- PVC Adhesive Tangit KF6828 p97.

Product code	Pipe height mm	Pipe diameter mm	Flange diameter mm
KF6500	255	70	285
KF6510	299	100	348.5
KF6520	299	125	363

Flavent Rainwater Outlet Vent Base with Bitumen Skirt



Outlet with Bitumen Skirt provides maximum security and can be joined to the waterproofing system.

Key features

- Slender inlets for narrow roof penetrations, which can be inserted into existing pipes.
- Bitumen Skirt can be joined to a bitumen waterproofing flat roof system to provide maximum security and waterproofing levels.

Area of application

- For optimum drainage of flat roofs.
- Optional pipe extension allows for all thermal insulation thicknesses.

Related products

- Rainwater Outlet Grill KF6819, all sizes p90.
- Insulation Package Pipe Extension KF6836, all sizes p96.
- PVC Adhesive Tangit KF6828 p97.

Product code	Skirt width mm	Skirt length mm	Pipe diameter	Diameter mm
KF6501	500	500	255	70
KF6511			299	100
KF6521			299	125

Flavent Rainwater Parapet Outlet



Horizontal outlet can be joined to parapet walls, terraces and balconies.

Key features

- Ideal for installation to roofs, balconies and terraces.
- Weather, frost and UV-resistant.
- Extendable, reliable and easy to install.

Area of application

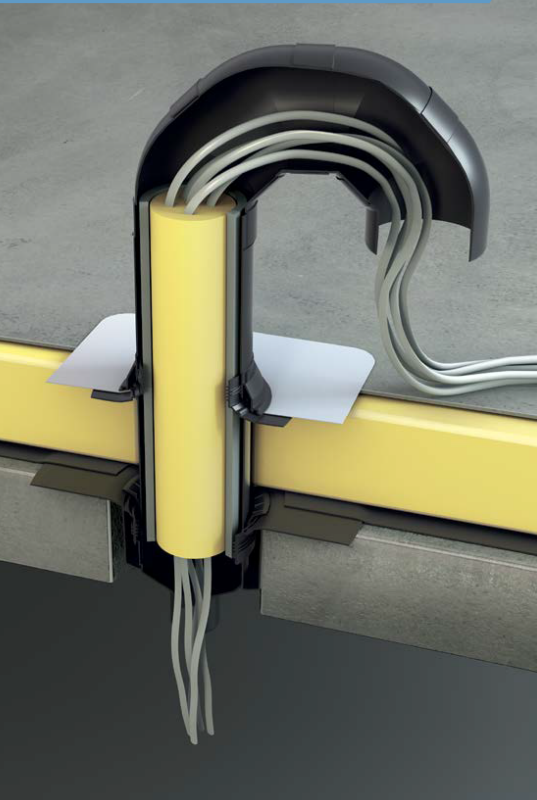
- For optimum drainage of flat roofs, balconies and terraces.

Related products

- Rainwater Outlet Grill KF6819, all sizes p90.
- Upper Pipe Extension KF6836, all sizes p96.
- PVC Adhesive Tangit KF6828 p97.

Product code	Pipe length mm	Parapet height mm	Pipe diameter mm
KF6530-1	711	185	70
KF6540-1	738	230	100

Flavent Cable Outlet Kit



Designed to allow cables to come through flat roofs ensuring a sealed penetration and a weather-tight seal on the roof.

Key features

- Ideal for installation to roofs, balconies and terraces.
- Weather, frost and UV-resistant.
- Extendable, reliable and easy to install.

Area of application

Suitable for solar panels, neon signs, satellite dishes and antenna cables.

Related products

- Upper Pipe Extension KF6806, all sizes p96.
- Insulation Package Pipe Extension KF6836, all sizes p96.
- PVC Adhesive Tangit KF6828 p97.



Product code	Height mm below/ above	Pipe diameter mm	Box contents
KF6910	234 + 349.7	70	1 x Outlet with PVC Flange 4 x Pipe Bends (45°)
KF6920	310 + 381.4	100	
KF6930	270 + 444	125	

Flavent Ventilation Outlet



KF6000



KF6001



KF6012

For air circulation above the insulation layer and for the removal of trapped moisture.



Key features

- Removes penetrating moisture and condensation, to keep the Insulation performance intact.
- Ideal for connection to most roof coverings including bitumen and PVC roof membranes.
- Available with screw connector for use with single ply membranes.

Area of application

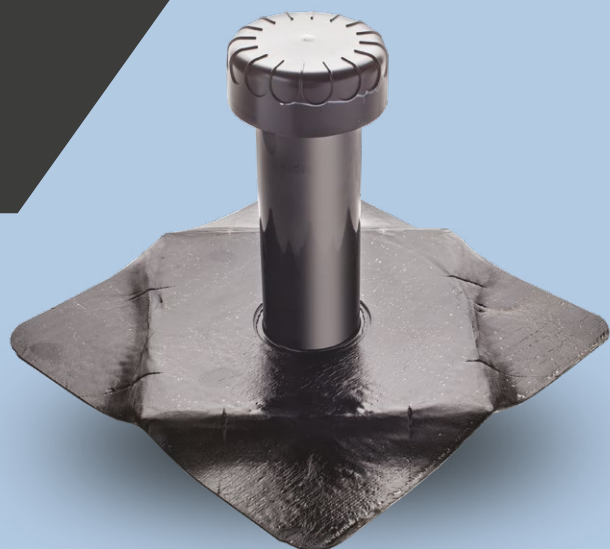
- As a renovation vent: for safe repair to old or damaged vents.
- For drying out roofs after construction or renovation.

Related products

- Upper Pipe Extension KF6806, all sizes p96.
- PVC Adhesive Tangit KF6828 p97.

Product code	Description	Width mm	Length mm	Height mm	Pipe diameter mm	Flange diameter mm
KF6000	Ventilation Outlet with PVC Flange			261	70	285
KF6010				345.5	100	350
KF6030				411	125	366
KF6001	Ventilation Outlet with Bitumen Skirt	500	500	261	70	
KF6011				345.5	100	
KF6031				411	125	
KF6022	Ventilation Outlet with Screw Connector			346.7	100	350
KF6032				411	125	366

FLAVENT VENT PIPE



BRINGING AIR FLOW AND VENTILATION TO LIVING SPACES.

Mechanical Ventilation Outlets

Flavent Vent Pipe

Vent Pipes to create air flow in living spaces.

Key features

- Creates optimal airflow in living spaces.
- Ideal for connection to most roof coverings including bitumen and PVC roof membranes.
- Available with screw connector for use with single ply membranes.

Area of application

- Suitable for airflow and mechanical extraction for flat roofs.

Related products

- Upper Pipe Extension KF6806, all sizes p96.
- Insulation Package Pipe Extension KF6836, all sizes p96.
- PVC Adhesive Tangit KF6828 p97.



Product code	Description	Width mm	Length mm	Height mm below/above	Diameter mm	Flange diameter mm
KF6040	Vent Pipe with PVC Flange			234+261	70	285
KF6050				310+345.5	100	350
KF6070				270+411	125	366
KF6060	Refurbishment Vent Pipe for Socketless Pipes			270+345.5	100	350
KF6041	Vent Pipe with Bitumen Skirt	500	500	234+216	70	
KF6051				310+345.5	100	
KF6071				270+411	125	
KF6052	Vent Pipe with Screw Connector			310+345.5	100	350
KF6072				270+411	125	366



Flavent Insulation Package Pipe Extension



Pipe extension for differing thermal insulation thicknesses.

Key features

- Allows extension between two part roof outlets
- Suitable for pipe extension for insulation thicknesses from 215 -264mm.
- Can be cut to length as required.

Area of application

- Suitable for insulated flat roofs.

Related products

- PVC Adhesive Tangit KF6828 p97.

Product code	Description	Height mm	Diameter mm
KF6836	For all Klober 70mm Rainwater, Vent Pipe and Cable Outlets	500	70
KF6837	For all Klober 100mm Rainwater, Vent Pipe and Cable Outlets		100
KF6838	For all Klober 125mm Rainwater, Vent Pipe and Cable Outlets		125

Flavent Upper Pipe Extension



For extending the height of outlets.

Key features

- Suitable to extend the Klober Ventilation Outlet in green roof structures.
- Perfect to extend the height of the pipe in insulated roofs.
- Can be cut to length as required.

Area of application

- For green roof extension, there must be a minimum height of 15cm from the top edge of the vegetation to the top of the fan mouth.

Related products

- PVC Adhesive Tangit KF6828 p97.

Product code	Height mm	Diameter mm
KF6806	250	70
KF6807	340	100
KF6808	200	125

PVC Adhesive Tangit



Bonding Adhesive for all Klober Outlets and extensions.

Key features

- Tangit can be used together with the use of sockets.
- For individual screw connection joints.

Area of application

- For individual screw connections.
- Use tangit around a joint, the gap must be no more than 0.6mm.

Related products

- Upper Pipe Extension KF6806, all sizes p96.
- Insulation Package Pipe Extension KF6836, all sizes p96.

Product code	Size	Colour	Box quantity
KF6828	125g	Black	12

Replacement Outlet Caps



Replacement caps for rain and soil and vent outlets ranging from 70-125mm.

Related products

- Vent Pipe with PVC Flange KF6040, all sizes p95.
- Vent Pipe with Bitumen Skirt KF6041, all sizes p95.
- Ventilation Outlet with PVC Flange KF6000, all sizes p93.
- Ventilation Outlet with Bitumen Skirt KF6001, all sizes p93.

Product code	Description	Diameter mm
KF6809	Rain Cap for the 70mm Outlets	70
KF6817	Rain Cap for the 125mm Outlets	125
KF6818	Carrier for 125mm cap (carrier only required for 125mm cap)	125
KE8013-3-00-0450	Soil and Vent cap for 100mm outlets	100

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