

KLOBER

PRODUCT GUIDE



Part of the BMI Group, Klober is a well established European manufacturer of universal roofing components.

Klober develops and manufactures a comprehensive range of universal components for pitched and flat roofs, all designed to meet UK building standards. Combined with our commitment to stringent testing, our goal is to provide effective and accessible roofing solutions that meet evolving market needs.

**Let us tell you why
choosing Klober
is the best choice.**



SCAN CODE



Ventilation

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Why Choose Klober?

BMI

KLOBER



Klober is part of the BMI Group.

An established supplier of roofing ventilation products, Klober is part of the BMI Group, the largest manufacturer of flat and pitched roofing and waterproofing solutions in Europe.

The name Klober means you can expect high quality and good value.

For us, it's always been about helping you to be more productive. This thinking guides the design of our universal roofing components, which provide effective solutions for many common uses.

Supporting our customers is key to everything we do:

Product availability, flexible delivery options, supporting product literature, training and installation guides along with product compliance to industry standards ensures we give our customers peace of mind all day and every day.

Guarantee

All products supplied by Klober Ltd are covered by a minimum 10 year product guarantee against manufacturing defect*. Guarantee exclusions include colour stability. Products should be installed as per our literature, fixing instructions and/or guidelines set out in relevant British Standards and BBA Certificates where appropriate**.

Certification & approvals

Klober products are designed to support the need to comply with UK & Ireland Building Regulations. Klober products are manufactured to the strictest of standards and are CE / UKCA marked where applicable. For further information regarding additional certification, such as BBA, please refer to the relevant product page.



To learn more about Klober and to find your nearest stockist, visit klober.co.uk

* Conditions of guarantee can be found at <https://klober.co.uk/klober-product-guarantee>
Wakaflex is covered by a 20 year product guarantee.

** Relevant industry standards are referenced on the specific product page.

Supporting Installers



National Sales Team

Our national team of specialists work closely with our network of merchants to ensure Klober products are available. They also offer support to roofing professionals with projects: public and private, residential and commercial, new build and refurbishment. Get in touch today to arrange a meeting or site visit. Find your Area Account Manager visit klober.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

Customer Service Team

Our customer service team take orders and answer any questions you may have. They're friendly, always happy to help and have great product knowledge.

Telephone: 01332 813050

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



Learning and Support

Training

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

Access our Klober Training Zone and take a number of courses dedicated to improving your knowledge of our products, their uses and how to install them, alongside key topics of roofing theory. Request access today: training.klober.co.uk

Downloads

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

klober.co.uk/resource-centre/downloads

Are you a merchant looking for product data?

Access Filecamp, Klober's digital asset management platform, where you can find all of our product data, images, certificates and more. Request access today:

klober.co.uk/filecamp

Follow our YouTube channel: youtube.co.uk/kloberltd



Want to learn about the fundamentals of roofing?

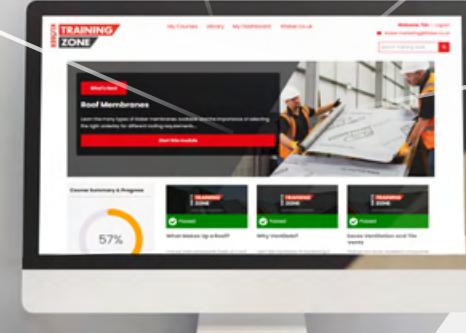
Join the Klober Training Zone

Access our Training Zone learning platform with courses, modules and resources to support you to learn more about Klober products and key roofing topics.

The Klober Training Zone has bitesize modules to fit around your day-to-day schedule. Work independently or develop a learning programme for you and your team.



What makes up a roof?



The importance of ventilation



Request access today: klober.co.uk/trainingzone

Ventilation

Vents

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Why choose Klober Tile Vents?

The Klober range of Tile Vents offers solutions for the most popular profiles of tiles and slates from all leading manufacturers.

Our In Line range offers discreet ventilation solutions matched to the tile profile. Manufactured from carefully selected polymers chosen for their strength and UV resistance, Klober tile vents are built to deliver reliable performance.

Klober tile vents can be used to provide high and low level roof space ventilation in accordance with BS 5250.* When installed with an adaptor and flexible pipe they can also serve as an outlet for mechanical extraction, or as a terminal for soil, vent pipes and bathroom fans.

Klober tile vents introduce additional ventilation into existing roofs, helping to eliminate harmful condensation.

Tile Vents you can trust

We develop and manufacture all our tile vents in our own plants across Europe. This means we have full control from initial design to merchant delivery ensuring quality with rigorous testing of all products. This means that Klober is always ready to deliver the products you need, when you need them.



Find the right tile vent for your roof with our Compatibility Chart

Pages 108-110

*Klober's advice is to always use the latest version of the standard.



A VENT FOR EVERY ROOF

Universal solutions, traditional options and specific vents to suit the most popular manufacturer tiles*.

*For your specific requirement, contact Klober Customer Services.



PEACE OF MIND

All of our tile vents are backed by a 10 year product guarantee. Visit klober.co.uk/product-guarantee for details.



DESIGNED TO LAST

Made from durable plastic, including ASA material in our In Line range.



COLOUR MATCH

Colour matching service and granulation to suit any colour tile for a discreet finish on the roof.

See page 20 for details

Tile Vent Compatibility

Match the right tile vent for your roof with our Compatibility Chart

Page 108



Learn more about
Klober's Tile Vent range
klober.co.uk/video



SCAN CODE
TO WATCH



In Line Tile Vent Range



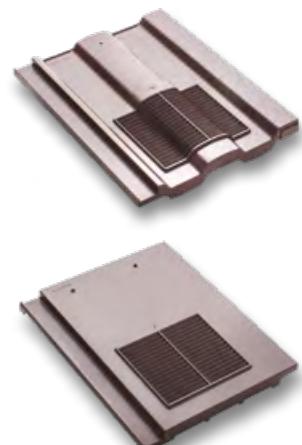
A discreet In Line ventilation range designed to complement most concrete interlocking roof tiles.

Key features

- In Line design integrates with the roofline for a discreet and unobtrusive appearance.
- 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.



Double Roman Tile Vents



Area of application

- For roof pitches 17.5° and over.
- Double Roman tile profiles.
- High and low level ventilation as defined by BS 5250.

Box Qty: 10

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

Single Pantile Tile Vents



Area of application

- For roof pitches 20° and over.
- Single Pantile profiles.
- High and low level ventilation as defined by BS 5250.

Box Qty: 10

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

Double Pantile Tile Vents



Area of application

- For roof pitches 17.5° and over.
- Double Pantile profiles.
- High and low level ventilation as defined by BS 5250.

Box Qty: 10

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

Limarech Tile Vents



Area of application

- For roof pitches 17.5° and over.
- Limarech Pantile profiles.
- High and low level ventilation as defined by BS 5250.

Box Qty: 10

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

Flat Tile Vents



Area of application

- For roof pitches 20° and over.
- Flat tile profiles.
- High and low level ventilation as defined by BS 5250.

Box Qty: 10

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

15x9 Tile Vents



Area of application

- For roof pitches 20° and over.
- 15x9 tile profiles.
- High and low level ventilation as defined by BS 5250.

Box Qty: 10

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

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 as defined by BS 5250.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm ²	Colour	Tile compatibility
KG9861-0116	330	273	7,850	Antique Red	Suits: Redland Duo Plain, Forticrete Gemini and Marley Ashmore profiles
KG9861-0152				Terracotta	
KG9861-0247				Brown	
KG9861-0429				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 as defined by BS 5250.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm ²	Colour	Tile compatibility
KG9855-3-0450	330	418	10,000	Black	Suits: Marley Edgemere, Russell Galloway, Breedon Elite, Mannock 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				Grey	

Universal Tile Vents

Uni-Line Tile Vents



Unique design offering a universal solution with a discreet appearance and suits most interlocking roof tiles.

Key features

- Unique universal design offering a discreet appearance.
- 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 as defined by BS 5250.

Compatible with

- Flexipipe KG979900 p28.

Box Qty: 1

Product code	Width mm	Length mm	Vent area mm ²	Colour
KG9853-0152	424	454	10,000	Terracotta
KG9853-0247				Brown
KG9853-0429				Grey

*Please see compatibility chart on pages 108 - 110.

Universal 20k Tile Vents



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.
- Solution for a mechanical ventilation heat recovery system 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 as defined by BS 5250.

Compatible with

- Adaptor KG979700 p29.

Box Qty: 10

Universal Tile Vents



Universal solution, suitable for 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.
- 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 as defined by BS 5250.

Compatible with

- Adaptor and Flexipipe KG979800-1 p28.
- Adaptor KG968300-1/KG979000-1 p29.
- Flexipipe KG979900-1 p29/KE8042-3 p28.

Box Qty: 10

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

*Please see compatibility chart on pages 108 - 110.



Colour Matching Service

Struggling to find a tile vent that matches your roof colour?

Our Colour Matching Service provides a finish that closely matches your requirements, helping the tile vents to blend in well with the rest of the 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



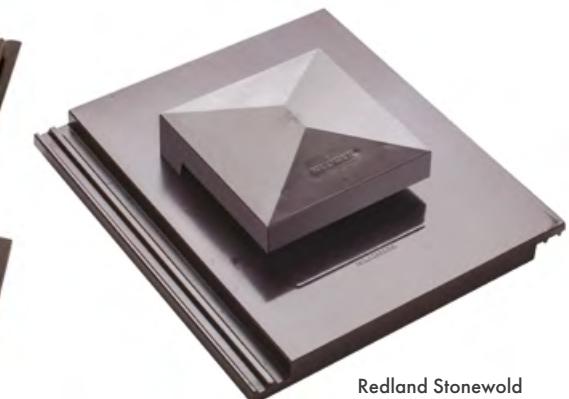
Redland Regent



Marley Bold Roll



Redland Delta



Redland Stonewold
Mark II Profile

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

Key features

- 15,000mm² ventilation area provided, suitable for applications where high levels of ventilation are required.
- 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 as defined by BS 5250.

Compatible with

- Throat Adaptor KG8000-3 p29.
- Flexipipe KG979900 p28.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm ²	Colour	Tile compatibility
KG6083-3-0200	380	430	15,000	Brown	Redland Stonewold Mark II Profile
KG6083-3-0400				Grey	
KG6092-3-0200	330	410		Brown	Marley Wessex
KG6084-3-0200				Brown	
KG6084-3-0400	334			Grey	Redland Regent
KG6085-3-0200				Brown	
KG4096-3-0200	385	430		Brown	Redland Delta

*not Redland Delta

Small Slate Vents



Slate vent with hood to reduce the risk of the 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.
- High and low level ventilation as defined by BS 5250.

Compatible with

- Flexipipe KG972400 p28.

Box Qty: 10

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

Uni-Line Slate Vents



Designed to integrate with the roof line for a discreet and unobtrusive appearance.

Key features

- In-line design integrates with the roof line for a discreet appearance.
- 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.
- High and low level ventilation as defined by BS 5250.

Compatible with

- Flexipipe KG979900 p28.

Box Qty: 10

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



Mini Uni-Line
Slate Vent



10k Slate Vents



A combination of low profile and high airflow, designed to prevent the entry of birds and larger insects.

Key features

- 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.
- High and low level ventilation as defined by BS 5250.

Compatible with

- Adaptor KG979100 p29.
- Flexipipe KG979900 p28.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm ²	Colour	Tile compatibility
KG968900	300	600	10,000	Slate Grey	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 mechanical ventilation heat recovery system with a 150mm adaptor.

Area of application

- For roof pitches over 22.5°.
- Manmade fibre cement or natural slate.
- High and low level ventilation as defined by BS 5250.

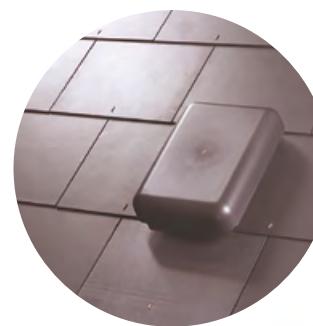
Compatible with

- Adaptor KG979700 p29.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm ²	Colour	Tile compatibility
KG9795-1-0429	300	600	20,000	Slate Grey	600mm x 300mm (24" x 12") and 500mm x 250mm (20" x 10") double lap slate tiles
KG9795-1-0450				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.
- High and low level ventilation as defined by BS 5250.

Compatible with

- Adaptor and Flexipipe KG979800-1 p28.
- Universal Vent Adaptor KG968300-1 / KG979000-1 p29.
- Flexipipe KG979900 / KE8047 p28.

Product code	Width mm	Length mm	Vent area mm ²	Colour	Box quantity	Tile compatibility
KG979630-1 (Cap)	300	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	

Plain Tile Vents

Clay Tile Vents



Discreet ventilating tiles designed for clay plain tiles.

Key features

- In-line design integrates with clay plain tiles for a discreet and unobtrusive appearance.
- 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 clay plain tiles.*
- High and low level ventilation as defined by BS 5250.

Compatible with

- Throat Adaptor KG8003-3 p29.
- Flexipipe KG979900 p28.

Box Qty: 10

Brown



Terracotta



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

*Please consult Klober Technical Services Department with any compatibility queries.

Uni-Plain Tile Vents



Discreet ventilating tiles designed for concrete plain tiles.

Key features

- In-line design integrates with concrete plain tiles for a discreet and unobtrusive appearance.
- Can be used as a terminal for soil and ventilation pipes and mechanical extraction systems when used with an adaptor and flexipipe.

Width: 330mm

Length: 300mm

Vent Area: 6,000 mm²



Hedgerow Brown

Area of application

- For roof pitches 35° and over.
- For most popular concrete plain tiles.*
- High and low level ventilation as defined by BS 5250.

Compatible with

- Adaptor and Flexi Pipe KG992800 p28.
- Adaptor KG990500 p29.
- Flexipipe KG979900 p28.

Box Qty: 10

Product code	Colour
KG991802	Brown Granular
KG991803-1	Antique Red
KG991805	Red Granular
KG991812	Cotswold
KG991818	Hedgerow Brown
KG991823	Autumn
KG991830-1	Grey
KG991834-1	Terracotta
KG991836-1	Brown
KG991878	Rustic Red

Adaptors and Flexipipes

Supplementary components for tile vents, enabling soil ventilation and mechanical extraction. Choose between a combined adaptor and flexipipe or purchase them individually.

Tile compatibility	Product code	Diameter mm	Length mm	Product
Adaptor and Flexipipe				
InLine Tile Vents and 10k Slate Vent	KG979200	100		
Universal Tile Vents and Large Slate Vents	KG979800-1			
Uni-Plain Tile Vents	KG992800			
Flexipipe				
Universal Tile Vent, Large Slate Vent when used with 125mm Adaptor, and all Vents and Adaptors with 100mm connection	KE8042-3	75/90/110 to 110/125	650	
Small Slate Vent	KG972400	75/100	280	
All Vent Tiles and Adaptors with 100mm connection (excludes 20k and Small Slate Vent)	KG979900	100/100	380	

Key features

- A range of adaptors and flexipipes for connection to internal pipework and ducting.
- Quick and simple connection to internal pipework.

All Adaptors and Flexipipes are available in boxes of 10

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

Solar and Snow Systems

Solar Cable Outlets



Supports the passage of cables and pipework through the roof.

Outlets are available for both solar thermal and PV cable compatibility.

Key features

- Suitable for most concrete interlocking tiles.*
- Choose from single or duo solar thermal outlets, or the Cable Outlet Kit which allows the passage of 8 cables.

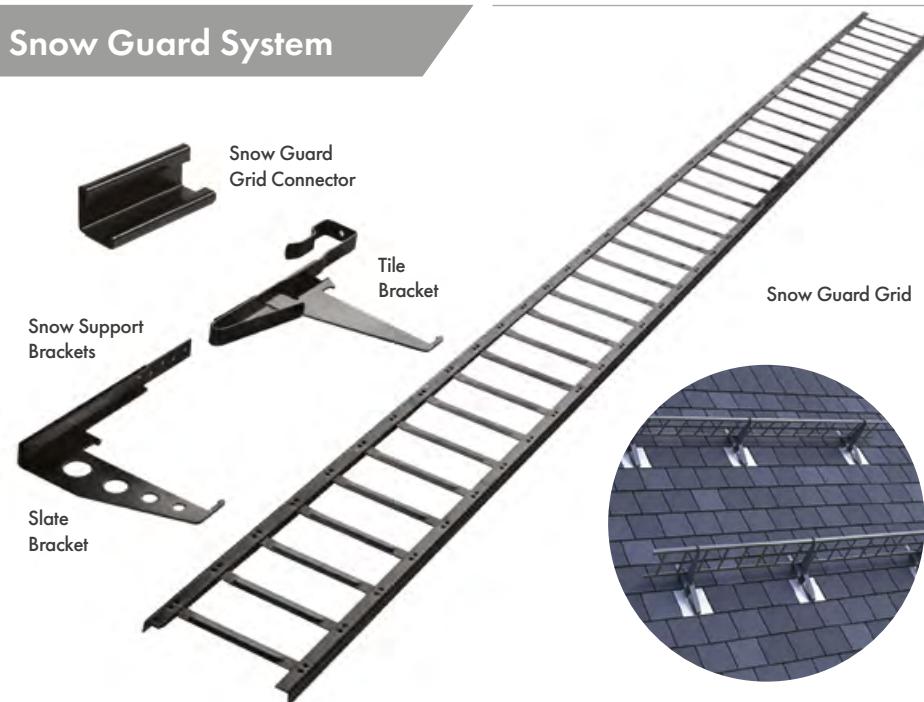
Box quantity: 1pc



Product type	Product code	Width mm	Length mm	Depth mm	Colour
Solar Thermal Single	KE8070-3-0429	424	454	197	Anthracite
	KE8070-3-0200				Brown
	KE8071-0450 (Slate Base Kit)				Black
Solar Thermal Duo	KE8270-3-0100	424	454	131	Red
	KE8270-3-0429				Anthracite
Cable Outlet Kit	KE8073-3-0100			73	Red
	KE8073-3-0429				Anthracite

*Please consult Klober Technical Services Department with any compatibility queries.

Snow Guard System



Prevents snow falling from the roof.

Key features

- Lightweight and easy to fit.
- Brackets for slate or tile.
- Powder coated.

Area of application

- For roof pitches 10° - 70°.
- Slate and concrete interlocking tiles, not suitable for plain tiles.*
- Five snow support brackets required per grid.

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

*Please consult Klober Technical Services Department with any compatibility queries.

Eaves Ventilation

Just because they are out of sight does not mean they should be out of mind.

The Klober range of Eaves Ventilation products offer a choice of discrete methods for providing airflow into the roofspace.

Eaves ventilation products are used as a traditional method of providing low level, or eaves ventilation in a pitched roof as defined by BS 5250* .

The amount of ventilation required is defined by BS 5250:2021: The Management of Moisture in Buildings, and is required to remove any build up of moisture which can lead to potentially harmful condensation. Cold loft spaces can be particularly prone to condensation as warm air enters this space from the rooms below.

*Klober's advice is to always use the latest version of the standard.



As well as providing the necessary ventilation openings from outside, it is important to ensure that the airflow is able to reach the intended area. For a new build solution the Roll Out Rafter Tray (p35) works alongside the Over Fascia Vent (p39) to create a path for airflow into the roofspace, ensuring it is able to bypass any loft insulation that may otherwise block this route.

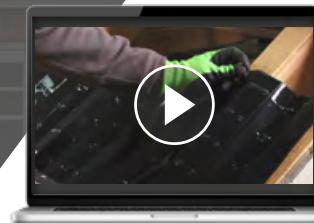
Alternatively the Loft Vent Tray (p34) can be installed from inside the loft area and is used to maintain a pathway following the installation of loft insulation, which can block up existing air entry points.



HOW TO INSTALL

Learn how to install Klober's range of Eaves Ventilation products.

Part of our Installation video series at: klober.co.uk/video



SCAN CODE
TO WATCH

Loft Vent Tray



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

Key features

- Install from inside the loft, without disturbing the roof covering.
- Adjustable to pitch of roof.
- Often installed when upgrading loft insulation
- Colour: Black.

Area of application

Suitable for all roofs.

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

Rafter Tray



Acts as 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.
- Straightforward installation.
- Colour: Black.

Area of application

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

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

Underlay Support Tray



Provides underlay support and drainage into the guttering.

Key features

- Overhang provides drainage into the gutter.
- Prevents ponding behind the fascia and the underlay sagging between rafters.
- Often installed when fascia boards are replaced.
- Colour: Black.

Area of application

Suitable for all roofs.

Product code	Width mm	Length m	Pack quantity
KP973910	245	1.5	20

Roll Out Rafter Tray



Acts as a barrier and ventilation path between the insulation and roof.

Key features

- Available in five widths.
- Straightforward installation.
- Colour: Black

Area of application

- For roofs with a pitch over 12.5°.
- Suitable for all rafter centres.
- Suitable for 10mm and 25mm eaves ventilation.

Product code	Width mm	Length m	Depth mm	Box quantity
KP971500	300	6	35	10
KP975700				
KP971600				
KP971700				
KP971900				

3-IN-1 EAVES VENT PACK

EVERYTHING YOU NEED FOR EAVES VENTILATION.



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.
- Universal to suit any tile profile.
- Colour: Black.

Area of application

Suitable for profile tiles.

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

Eaves Ventilation

3-in-1 Eaves Vent Pack



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

Key features

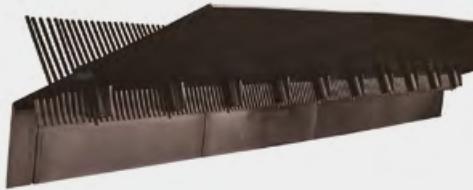
- Everything you need in one pack.
- Straightforward installation.
- Prevents ponding behind the fascia board.
- Colour: Black.

Area of application

450 - 600mm rafter centres.

Product code	Size	Box contents
KP990200	10mm Vent and 300mm Rafter Tray	6 Fascia Vents 10mm - 1m x 42mm x 25mm 25mm - 1m x 48mm x 38mm
KP990600	10mm Vent and 600mm Rafter Tray	10 Underlay Support Trays 265mm x 600mm
KP966700	25mm Vent and 300mm Rafter Tray	1 Roll Out Rafter Tray 6m x 35mm x 300/600mm

Vented Eaves Protector



A practical method for ventilating and protecting at eaves level.

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.
- Colour: Black.

Area of application

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

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

Eaves Closer



An eaves perimeter detail for counter battened 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.
- Colour: Black.

Area of application

All counter battened roofs.

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

Over Fascia Vent



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.
- Designed to provide low level ventilation as defined by BS 5250.
- Colour: Black.

Area of application

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

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

Circular Soffit Vent



Provides eaves ventilation through the soffit.

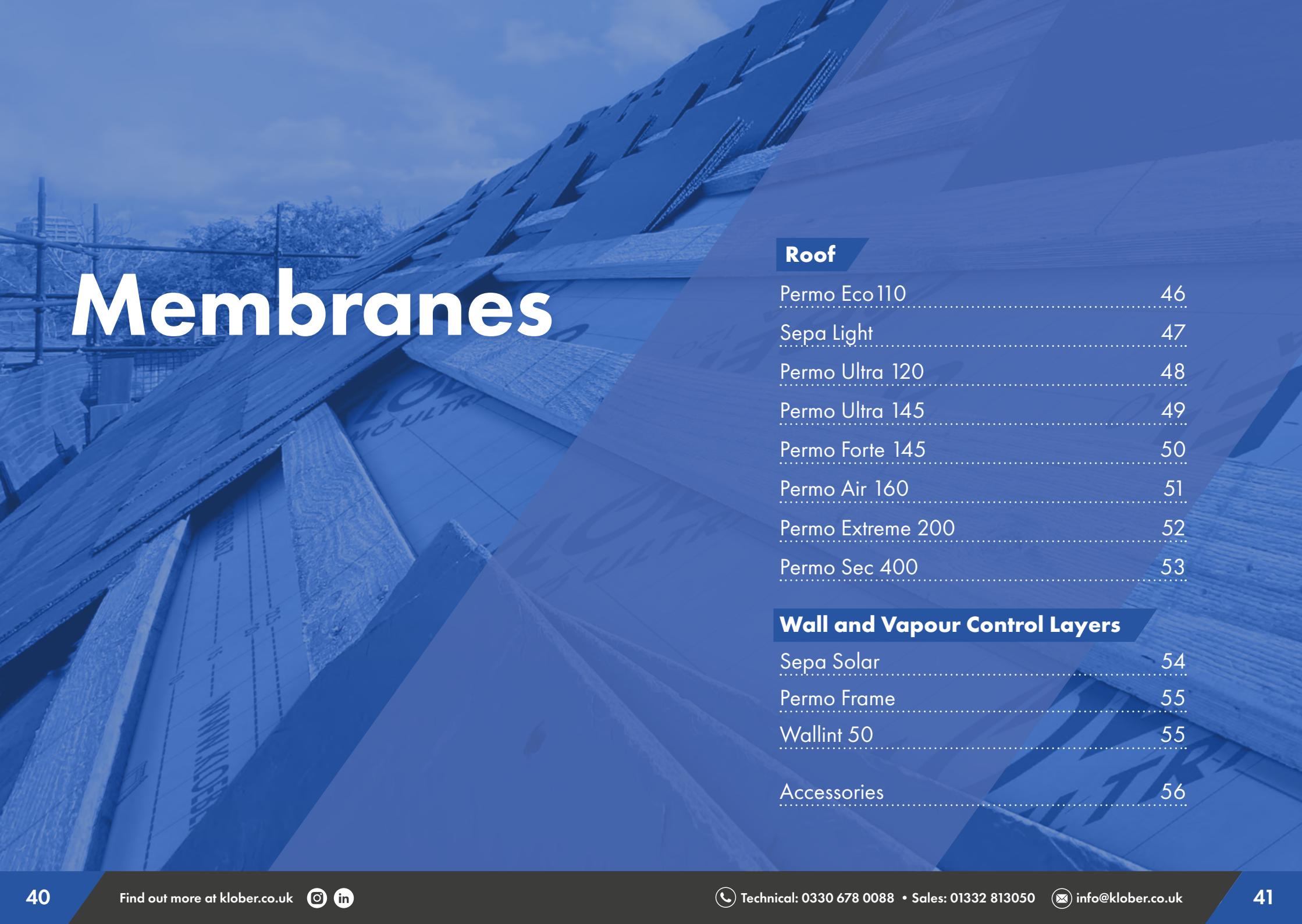
Key features

- Available in two colours.
- 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.

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



Membranes

Roof

Permo Eco 110	46
Sepa Light	47
Permo Ultra 120	48
Permo Ultra 145	49
Permo Forte 145	50
Permo Air 160	51
Permo Extreme 200	52
Permo Sec 400	53

Wall and Vapour Control Layers

Sepa Solar	54
Permo Frame	55
Wallint 50	55
Accessories	56

Roofing Membranes

What is a Roofing Membrane?

A pitched roofing membrane, or underlay, is designed to help reduce the effect of wind loading whilst providing a secondary layer of protection against water penetration beneath the primary roof finish, such as slate or tile. Membranes also act as temporary protection whilst the roof is being installed.

Types of Membranes

There are two main types of membrane recognised by BS 5250*, which is the British Standard for the Management of Moisture in Buildings:

High Resistance (HR)

HR membranes are non breathable underlays and will resist the passage of water vapour. These membranes will always require additional roofspace ventilation.

Low Resistance (LR)

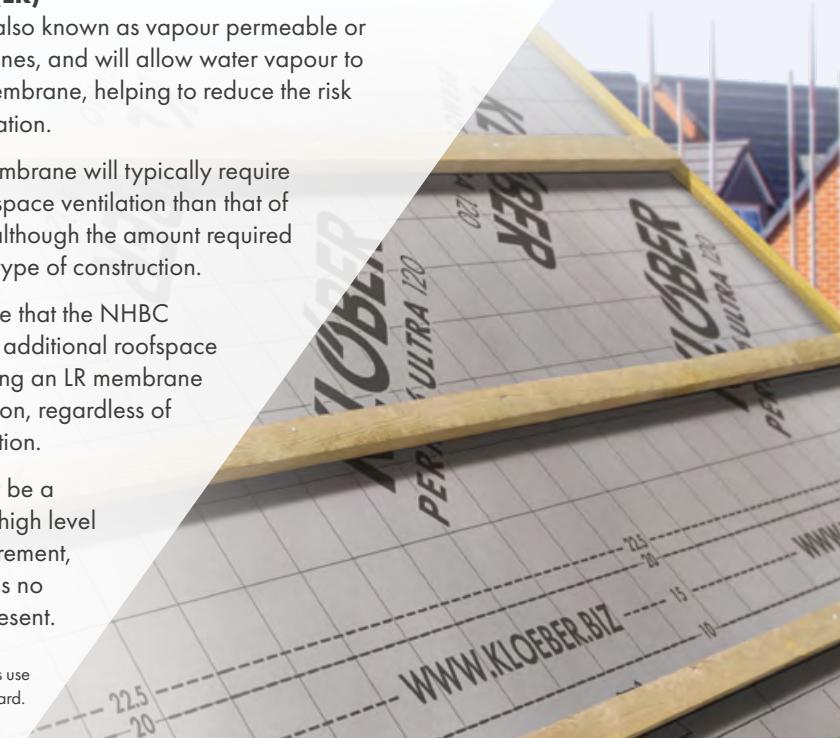
LR membranes are also known as vapour permeable or breathable membranes, and will allow water vapour to pass through the membrane, helping to reduce the risk of harmful condensation.

The use of an LR membrane will typically require less additional roofspace ventilation than that of an HR membrane, although the amount required will depend on the type of construction.

It is important to note that the NHBC Guarantees require additional roofspace ventilation when using an LR membrane in a cold roof situation, regardless of the type of construction.

This would normally be a continuous 5mm at high level as a minimum requirement, particularly if there is no eaves ventilation present.

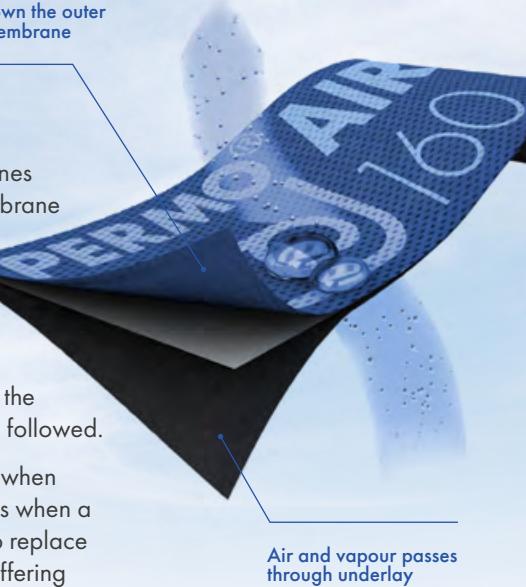
* Klober's advice is to always use the latest version of the standard.



Air open membranes

There are some extremely breathable membranes that also allow air movement through the membrane as well - these are known as air open membranes and are normally validated by third party certification such as BBA. Klober's Permo Air 160 for example, is BBA Certified for use in both cold and warm roofs with no additional ventilation, as long as the guidelines laid down in the BBA certificate are followed.

This type of membrane is particularly effective when the risk of condensation is at its highest, such as when a new building is drying out, and can be used to replace traditional ventilation options in many cases, offering significant benefits in aesthetics and design.



A range to suit every application

Klober's membrane range is split into two sections; Everyday membranes offer a choice of weights for everyday use, whereas the Specialist range offers additional benefits, such as specific solutions for air permeability.



Wind Zones

In accordance with BS 5534:2014+A2:2018, all Klober membranes, where appropriate, state which wind zone they are suitable for under the section heading 'Area of application', assuming a maximum 345mm batten gauge is used.

All Klober membranes are CE and UKCA marked



The Klober Membrane Range

Everyday Range				
Product	PERMO ECO 110	SEPA LIGHT	PERMO ULTRA 120	PERMO ULTRA 145
	Lightweight breathable membrane (LR)	A non breathable membrane (HR)	Midweight breathable membrane (LR)	Most durable Everyday membrane* (LR)
Weight (g/m ²) +/- 10%	110g	120g	120g	145g
Page	46	47	48	49

*Based on comparable tensile strength tests

Every Roof Covered

Specialist Range			
Product	PERMO FORTE 145	PERMO AIR 160	PERMO EXTREME 200
	Breathable membrane with a mid-layer reinforcement grid (LR)	Air and vapour permeable membrane (LR)	Low pitch solution (HR)
Weight (g/m ²)	145g	160g	200g
Page	50	51	52

The Klober Membrane Range offers a complete selection of everyday membranes through to specialist solutions, covering all requirements and budgets for pitched roofing.

PERMO ECO 110

Lightweight breathable membrane.



Key features

- A breathable three-layer membrane for everyday use.
- BBA certified low resistance (LR) membrane.

Area of application

- Suitable for cold and warm roofs.
- Wind zones 1-2 with battened headlap.
- Wind zones 1-4 with taped headlap.

Related products

- Underlay Support Tray KP973910 p34.
- Permo TR Plus Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.

Product code	Width ≥ m	Length ≥ m	Weight g/m ² +/- 10%	Pallet quantity
KU0039-2	1.1	50	110	35
KU0039-2-15	1.5			30



SEPA LIGHT

A non breathable (HR) membrane.



Key features

- Often used alongside tight-fitting roof coverings such as fibre cement slates and solar panels.
- High resistance (HR) lightweight membrane.
- Airtight and vapour impermeable.

Area of application

- Suitable for cold roofs where traditional ventilation is planned.
- Wind zones 1-2 with battened headlap.
- Wind zones 1-5 with taped headlap.

Related products

- Underlay Support Tray KP973910 p34.
- Over Fascia Vent KP965200 / KP964300 p39.
- Roll Out Rafter Tray, all sizes p35.
- Permo TR Plus Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.

Product code	Width ≥ m	Length ≥ m	Weight g/m ² +/- 10%	Pallet quantity
KU979145-1	1	45	120	42

PERMO ULTRA 120

Mid-weight breathable membrane.



Key features

- Three-layer membrane with breathable central layer to manage and reduce the build-up of condensation.
- Low resistance (LR) membrane for both supported and unsupported roofs.

Area of application

- Suitable for cold and warm roofs.
- Wind zones 1-3 with battened headlap.
- Wind zones 1-5 with taped headlap.

Related products

- Underlay Support Tray KP973910 p34.
- Permo TR Plus Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.

Product code	Width ≥ m	Length ≥ m	Weight g/m ² +/- 10%	Pallet quantity
KU0041-1	1	50	120	30
KU0041-1-15	1.5			

PERMO ULTRA 145

Most durable Everyday membrane.



Key features

- Three-layer membrane with breathable central layer to manage and reduce the build-up of condensation.
- Low resistance (LR) membrane for both supported and unsupported roofs.

Area of application

- Suitable for cold and warm roofs.
- Wind zones 1-3 with battened headlap.
- Wind zones 1-5 with taped headlap.

Related products

- Underlay Support Tray KP973910 p34.
- Permo TR Plus Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.

Product code	Width ≥ m	Length ≥ m	Weight g/m ² +/- 10%	Pallet quantity
KU0043-04-05-1	1.1	50	145	20
KU0043-04-1	1.5			



PERMO FORTE 145

A four-layer membrane with mid-layer reinforcement grid.



Key features

- This grid-reinforced four-layer breathable membrane offers higher tensile strength.
- BBA certified low resistance (LR) membrane.

Area of application

- Suitable for cold and warm roofs.
- Wind zones 1-4 with battened headlap.
- Wind zones 1-5 with taped headlap.

Related products

- Underlay Support Tray KP973910 p34.
- Permo TR Plus Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.

Product code	Width ≥ m	Length ≥ m	Weight g/m ² +/- 10%	Pallet quantity
KU0044-07-05-1	1.1	50	145	20
KU0044-07-1	1.5			



PERMO AIR 160

Air and vapour permeable.



Key features

- Air and vapour permeable low resistance (LR) roof membrane.
- Helps to reduce the risk of condensation forming.
- Can be used without additional ventilation in cold and warm roofs (LR).*

Area of application

- Suitable for cold and warm roofs.
- Wind zones 1-3 with battened headlap.
- Wind zone 1-5 with taped headlap.

Related products

- Underlay Support Tray KP973910 p34.
- Permo TR Plus Tape KU0121-1 p56.
- Tacto tape KU0111 p56.

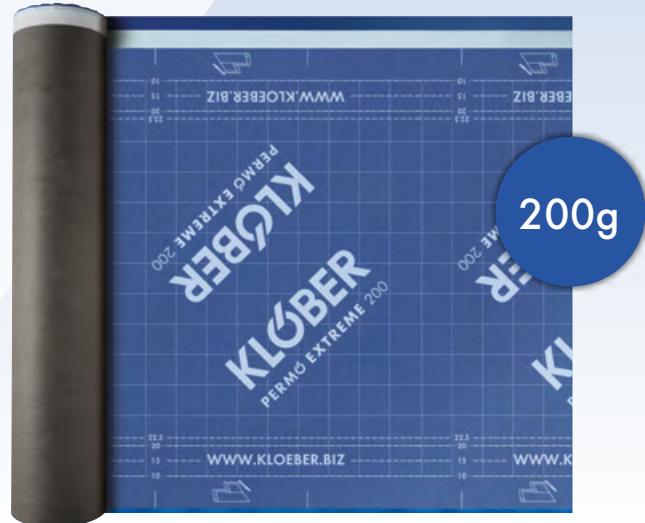
Product code	Width ≥ m	Length ≥ m	Weight g/m ² +/- 10%	Pallet quantity
KU0045-1	1	50	160	20
KU0045-15	1.5			



* Please refer to the conditions of the BBA Certificate

PERMO EXTREME 200

Engineered for roofs as low as 12.5 degrees.



Key features

- Offers design flexibility and ease of installation by enabling you to use tiles below their recommended minimum pitch.
- Thermoplastic polyurethane (TPU) coating with integral self adhesive headlap tape.
- Klober Butylon Tape must be used alongside Permo Extreme 200.

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 with taped headlap.
- High resistance membrane (HR) so requires ventilation.

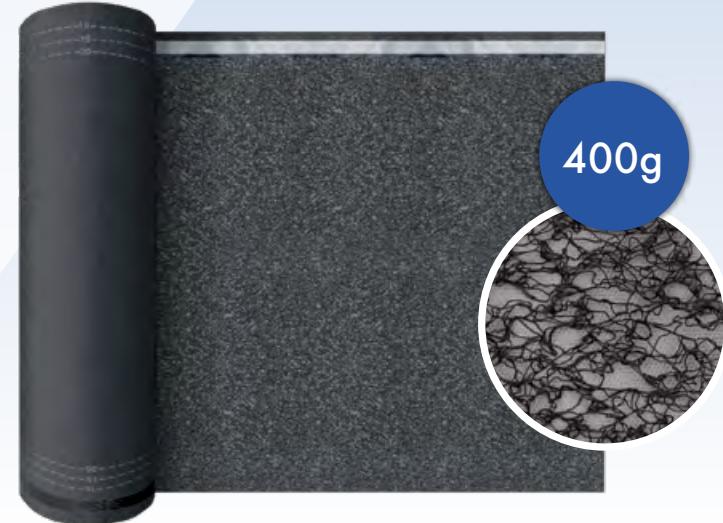
Related products

- Underlay Support Tray KP973910 p34.
- Butylon Tape KU0104 p56.
- Over Fascia Vent KP964300 / KP965200 p39.
- Roll Out Rafter Tray, all sizes p35.

Product code	Width ≥ m	Length ≥ m	Weight g/m ² +/- 10%	Pallet quantity
KU0170-1-11	1.5	50	200	20
KU0170-1-11-25		25		30

PERMO SEC 400

Roof drainage for standing seam metal roofs.



Key features

- A low resistance (LR) vapour permeable waterproofing barrier that is installed as a separating layer between copper, zinc, aluminium and stainless steel standing seam roof finishes and the supporting deck.
- Helps to prevent condensation that occurs on the underside of the metal roof covering from re-entering the roof structure, reducing the risk of white metal rust.
- Helps to reduce the transmission of external sounds, such as heavy rain.

Area of application

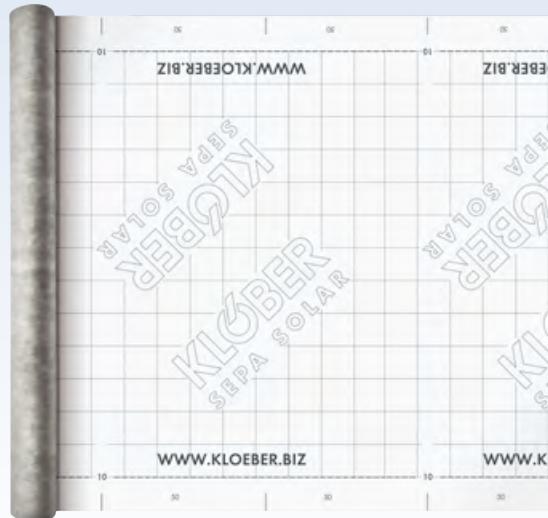
- Suitable for metal roofs with a minimum pitch of 3°.
- Can be laid over rigid insulation or timber boarding.

Related products

- Permo TR Plus Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.
- Butylon Tape KU0104 p56.

Product code	Width ≥ m	Length ≥ m	Weight g/m ² +/- 10%	Pallet quantity
KU0020-11	1.5	25	400	6

Sepa Solar



An air and vapour control layer with a reflective surface, for use on the inner face of roofs, walls* and ceiling.

Key features

- Reflects heat back into the building when combined with an air gap.
- Helps to prevent water vapour entering the construction from the inside.
- With 500 MNs/g vapour resistance it exceeds BS 9250 requirements.

Product code	Width ≥ m	Length ≥ m	Weight g/m ² +/- 10%	Pallet quantity
KU0092	1.5	50	173	20

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 p57.
- Permo TR Plus Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.
- Underlay Sealing Collar KE8090/KE8091 p58.

Permo Frame



A breather membrane for use on external walls*.

Key features

- Protects timber and insulation during construction and on completion.
- Vapour permeable to reduce the 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 TR Plus Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.

Wallint 50



An air and vapour control layer for use on the inner face of roofs, walls* and ceilings.

Key features

- Helps prevent the passage of water vapour.
- Can be used with other Klober products that reduce energy loss.

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 p57.
- Permo TR Plus Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.
- Underlay Sealing Collar KE8090/KE8091 p57.

*Note: Consideration must be given to the intended use and height of the building based on the reaction to fire performance declared. For further information please consult the relevant guidance document such as Approved Document B for England.

*Note: Consideration must be given to the intended use and height of the building based on the reaction to fire performance declared. For further information please consult the relevant guidance document such as Approved Document B for England.

Accessories

Butylon Tape

A watertight double-sided tape that helps create an airtight seal.



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

Permo TR Plus Tape

A multifunctional tape to create airtight seals between laps in membranes or vapour control barriers.



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

Tacto Tape

A double-sided fibre-reinforced tape.



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

Key features

- Self sealing tape around nail penetrations.
- Creates airtight seals.

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

- Klober Membranes range p46-55.

Sealing Collars



Creates a seal around cables and pipes, which pass through the roof.

Key features

- Additional protection when pipework or cables pass through the roof.

Area of application

- For pipe diameters 42-55mm and 50-70mm (Underlay Sealing Collar).
- For vertical pipework with diameters 100mm - 125mm (Pipe Sealing Collar).

Product code	Description	Width mm	Length mm	Height mm	Box quantity
KE8090	Underlay Sealing Collar	228	228	60	2
KE8091					
KU8001	Pipe Sealing Collar	235	310	115	20

Pasto Sealant



Pasto is a gun applied sealant for multiple surfaces.

Key features

- Creates air and wind tight seals between membranes and rough surfaces.

Area of application

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

Related products

- Klober Membranes range p46-55.

Product code	Size ml	Box quantity
KU0128	310	12



Dry Verge and Valleys

Dry Verge	60
Valleys & Dry Valleys	68
Bonding Strips & Secret Gutters	70

Dry Verge | That finishing touch

The Klober Dry Verge range has a number of solutions, designs and colours to provide a finish to the verge.

Dry verge applications are increasingly popular for installers for a number of reasons:

- ✓ No mortar needed to install, which makes for a cleaner installation.
- ✓ Provides UV stability and longevity.
- ✓ Maintenance free without the need to take regular care of cracking mortar applications.



HOW TO INSTALL

Need support with installing our verge products? Check out our step-by-step How-to-Install video guides:

klober.co.uk/video



Uni-Click



Left and right handed verge

Page 62

Available colours:



Ambi-Click



Use for both left & right applications

Page 63

Available colours:



Thin Leading Edge



Designed for thin leading edge tiles

Page 64

Available colours:



Continuous



Continuous verge for tile or slate roofs

Page 65

Available colours:



Uni-Click



Klober's most established verge system, available in both left and right handed versions.

Key features

- Handed product offering a more traditional appearance.
- Four colours to choose from including black, brown, slate grey and terracotta.
- Tested to BS 8612 supporting compliance with BS 5534.

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
KR9765-5-0152	Left Dry Verge	148	412	59	Terracotta	40
KR9765-5-0247					Brown	
KR9765-5-0429					Slate Grey	
KR9765-5-0450					Black	
KR9770-5-0152					Terracotta	
KR9770-5-0247					Brown	
KR9770-5-0429					Slate Grey	
KR9770-5-0450					Black	
KR973330-1	Right Dry Verge	148	412	59	Grey	2 x Eave Closers and 2 x Ridge (20 packs)
KR973334-1					Terracotta	
KR973336-1					Brown	
KR973376-1					Black	
	Eave and Ridge Pack					

*Please consult Klober Technical Services Department with any compatibility queries.

Amphi-Click



Amphi-Click verge can be installed on both left and right hand verges.

Key features

- Universal verge for both left and right hand applications, meaning only one SKU.
- Available in three colours, black, brown, grey.
- Secure mechanical fixing, which complies with BS 8612 and BS 5534.

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
KR9780-5-0429	Amphi-Click Dry Verge	180	401	47	Grey	40
KR9780-5-0247					Brown	
KR9780-5-0450					Black	
KR9781-5-0429	Eave and Ridge Pack				Grey	2 x Eave Closers and 2 x Ridge (20 packs)
KR9781-5-0247					Brown	
KR9781-5-0450					Black	

*Please consult Klober Technical Services Department with any compatibility queries.



Thin Leading Edge



A dry verge system for thin leading edge tiles.

Key features

- Designed specifically for thin leading edge roof tiles.
- Available in three colours, black, brown, grey.
- Secure mechanical fixing, which complies with BS 8612 and BS 5534.

Area of application

- For roof pitches over 12.5°.
- Suitable for most concrete thin leading edge roof tiles* with a max batten gauge of 345mm.

Continuous



A continuous dry verge for tiles or slates.

Key features

- Continuous design offers an alternative finish.
- Available in three colours, black, grey and brown.
- Secure mechanical fixing, which complies with BS 8612 and BS 5534*.

Area of application

- For roof pitches over 12.5°.
- T Strip: suitable for most interlocking tiles and plain tiles*.
- S Strip and Scot Strip: suitable for natural and man made slates up to 8mm thickness.



Product code	Description	Width mm	Length mm	Depth mm	Colour	Box quantity
KR9786-5-0429	Left Dry Verge	126	393	49	Grey	40
KR9786-5-0247					Brown	
KR9786-5-0450					Black	
KR9787-5-0429					Grey	
KR9787-5-0247					Brown	
KR9787-5-0450					Black	
KR9788-5-0429	Right Dry Verge				Grey	2 x Eave Closers and 2 x Ridge (20 packs)
KR9788-5-0247					Brown	
KR9788-5-0450					Black	
KR9788-5-0450	Eave and Ridge Pack					

*Please consult Klober Technical Services Department with any compatibility queries.

Product code	Description	Width mm	Length m	Height mm	Colour	Pack quantity
KR980376	T Strip	136	5	94	Black	4
KR980378					Brown	
KR980379					Grey	
KR980576	Connector to T Strip				Black	2
KR980578					Brown	
KR980579					Grey	
KR980476	S Strip	100	5	63	Black	4
KR980580	Connector to S Strip				Black	2
KR980676	Scot Strip	80	5	45	Black	4

* Please consult Klober Technical Services Department with any compatibility queries.
Mechanical fix applies only where tiles touch the upper section of the T Strip.
For thinner tiles please consult our Technical Services Department for further advice.

Contract Dry Verge



Klober's entry level solution, available in left and right handed versions.

Key features

- Available in two colours.
- 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	40
KR9785-0429					Grey	
KR9790-0247					Brown	
KR9790-0429					Grey	
KR973330-1	Eave and Ridge Pack				Grey	2 x Eave Closers and 2 x Ridge (20 packs)
KR973336-1					Brown	

*Please consult Klober Technical Services Department with any compatibility queries.

Complete Dry Verge System

End Caps



Universal Angle

Half Round

Designed to provide a professional finish on the roofline.

Product code	Description	Colour	Box quantity
KR977230	Half Round Ridge End Cap	Grey	10 pairs
KR977230-1		Slate Grey	
KR977234		Terracotta	
KR977236		Brown	
KR977276-1		Black	
KR977330		Grey	
KR977337-1		Slate Grey	
KR977334		Terracotta	
KR977336		Brown	
KR977376-1		Black	

For Uni Click Slate Grey, use Ridge End Cap colour Slate Grey.

For Ambi Click, Thin Leading Edge and Contract dry verge use Ridge End Cap colour Grey.



Valleys and Dry Valleys

Klober's range of valley products includes options for traditional and dry fix installation.

A Valley is a means of channelling water from the roof into the gutter.



Bonding Strips, also known as Bonding Gutters, are an excellent way of providing a weatherproof junction above the party wall between different roof finishes. **p70**

Secret Gutters provide a secondary line of defence against wind driven rain at wall abutments, available as GRP and PVC continuous abutment soakers. **p71**

*Please consult Klober Technical Services Department with any compatibility queries.

- Suitable for the majority of pitched roofs, compatible with most clay, concrete and slates*.
- Easy to install, at a fraction of the weight of traditional materials.
- Excellent long-term durability with a UV protected surface.
- Dry Valleys provide a maintenance-free valley detail.

Valleys & Dry Valleys

GRP Valleys

Heritage Dry Valley



Tile Valley Trough

Dry Valley Trough

Lightweight alternative to lead valleys.

Key features

- Provides an efficient channel to collect and direct water running off the roof.
- A cost effective alternative to lead.

Area of application

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



Product code	Description	Width mm	Length m	Height mm	Colour	Pack quantity
KR966200	Heritage Dry Valley	280	3	25	Grey	10
KR965210	Tile Valley Trough	360				
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*	80				
KR966105	Under Batten Dry Valley for profile tiles*	105				

*Under Batten Dry Valley not covered by the BBA Certificate.

Dry Valley Closer

Finishing and flashing of dry fix valley troughs.



Key features

- Provides a neat finish in the roofline.
- 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 qty.
KR9660-1-0070	Single	70	Grey	10
KR9660-2-0070	Double			
KR9661-1-0110	Single			
KR9661-2-0110	Double			

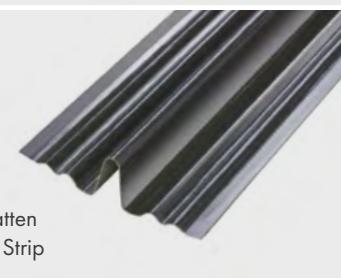
Bonding Strips



3m Bonding Strip



3m Dry Bonding Strip



3m Under Batten Dry Bonding Strip

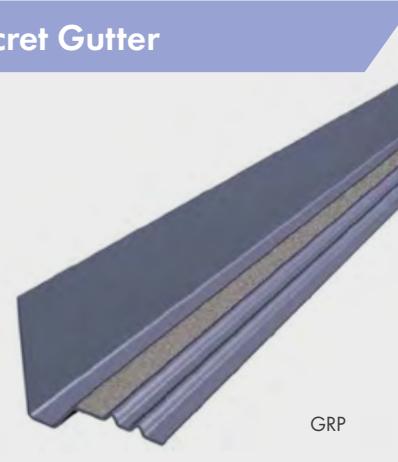
Designed to aid a weatherproof junction above the party wall between different roof finishes.

Key features

- Provides a weatherproof junction between differing roof finishes.
- Dry bonding strip allows a mortar free installation.
- Colour: Grey
- Pack quantity: 10



Secret Gutter



GRP



PVC

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

Key features

- Durable and lightweight to handle for quick and easy installation.
- Anti-capillary rib provides additional protection.
- A cost effective alternative to lead.

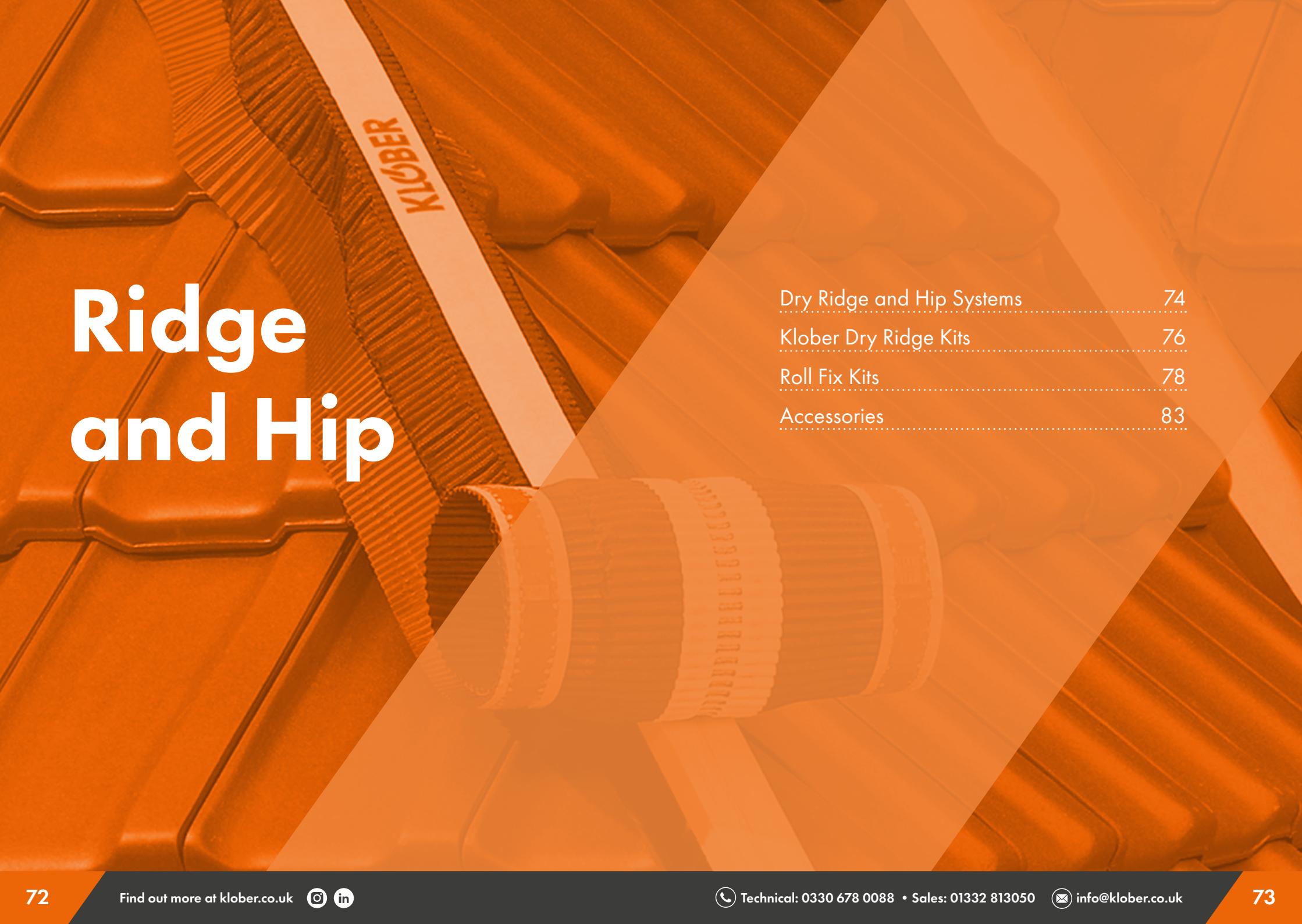
Area of application

Flat interlocking tiles.

Product code	Description	Width mm	Height mm
KR965710*	Bonding Strip	216	
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

*KR965710 not covered by BBA

Product code	Description	Width mm	Length m	Colour	Pack quantity
KR972000	PVC	97	3	Black	5
KR972010	GRP	140	3	Grey	10



Ridge and Hip

Dry Ridge and Hip Systems	74
Klober Dry Ridge Kits	76
Roll Fix Kits	78
Accessories	83

Ridge and Hip Systems

Ridge and Hip Kits have become increasingly popular in recent years as they have become the standard alternative to traditional sand and cement.

Clean and easy to install, kits come with all components to complete the job. Provides high level ventilation in accordance with BS 5250:2021 and a healthy flow of air to the roof, providing a discreet, barely visible ventilation system under ridge tiles. This helps to prevent the build up of moisture, which if not controlled in a building can lead to mould and structural damage in the roofspace.

Suitability

- Compatible with most slate, flat concrete and profiled tiles and most types of ridge and hip tiles*.
- Can be fitted to the ridge of any duo pitch roof with a pitch of 15° up to 45°.
- Provides a minimum of 5,000mm²/M of ventilation.

*Please consult Klober Technical Services Department with any compatibility queries.



HOW TO INSTALL

Learn how to install Klober's **Roll Fix Dry Ridge System**
Part of our Installation video series
at: klober.co.uk/video



SCAN CODE
TO WATCH



How to choose a Kit

Klober offers two kits, our time proven **Roll Fix Kits (p78)** and our everyday **Klober Dry Ridge Kits (p76)**.

Ridge Rolls

The ridge roll consists of aluminium side strips with butyl adhesive either side of the central fleece. Image shows a Roll Fix ridge roll.



Ridge seals with fixed lugs

Developed to ensure an easier installation with standard concrete ridge tiles.

Ridge seals without lugs

Allows greater flexibility, suitable for a wider range of ridge tiles.

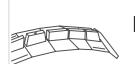
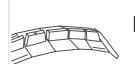
Klober Dry Ridge Kit

Klober's Dry Ridge Kit is an entry level solution with a choice of ridge seals for enhanced flexibility in roof installation. Available in 6m with and without lugs, and 10m with lugs.

The ridge roll features perforated central holes that allow the passage of air, supporting healthy roofspace ventilation.

Key Features

- The kit provides everything you need to complete the job.
- Available with a choice of two ridge seals.
- Tested to BS 8612 to support compliance with BS 5250 for ventilation and BS 5534 for mechanical fixing.

		Dry Ridge Kit WITH LUGS	Best for Concrete	10m	
		Dry Ridge Kit WITHOUT LUGS	Universal	6m	
					



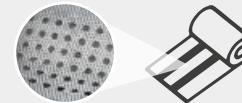
A kit consists of

- Ridge roll
- Ridge seals
- Screws and washers
- Clamping plates
- Ridge batten straps

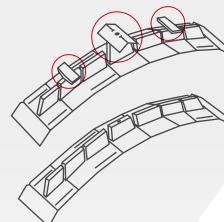
...everything needed to complete the run of ridge.

Klober Dry Ridge Kit

Perforated



Choose ridge seals
with or without lugs



A universal dry ridge and hip system suitable for most ridge tiles.

Key features

- Available in both 6m and 10m sizes.
- Lightweight, for safe and easy handling.
- Colour: Black.

Area of application

- Options to suit most ridge tiles*.
- Conversion kit available when using with shorter 300mm clay ridge tiles (without lugs only).
- Can be used on hips. Please note, Trays and Clips available separately.

Related products

- Flashing Glue PACCGL p93.

Product code	Description	Pallet quantity
KR5200-06-0450	6m Dry Ridge Kit (with lugs)	72
KR5300-06-0450	6m Dry Ridge Kit (without lugs)	
KR5200-10-0450	10m Dry Ridge Kit (with lugs version only)	48
KR5300-6	Conversion Kit for Clay Ridge (without lugs only)	
KR0200-51	Ridge Seal replacement (without Lugs)	
KR0200	Ridge Seal replacement (with Lugs)	

*Please consult Klober Technical Services Department with any compatibility queries.

Dry Ridge and Hip Systems

Roll Fix

This ridge kit builds on the features of the entry-level product, offering enhanced stretchability and improved adhesion for a secure and dependable application.

Best For

Projects where improved adhesion and flexibility are required. Suitable for both high and low profile tiles as defined by BS 8612

Key Features

- Fleece ridge roll provides ventilation and protection.**
- Butyl strips provide improved adhesion.**
- Allows enhanced flexibility when working with deeper profile tiles.**



Complies with:

Tested to BS 8612 to support compliance with BS 5250 for ventilation and BS 5534 for mechanical fixing.

Roll Fix Universal Kit	Universal	5m	Red Brown Anthracite	p79
Roll Fix Concrete Kit	Best for Concrete			p80
Roll Fix Hip Kit	Best for Hips			p81
Roll Fix Clay Half Round Ridge Kit	Best for Clay			p82

Roll Fix Universal Kit

Breathable
fleece



Universal Seal without Lugs



Improved
adhesion

Enhanced
flexibility



A universal ventilating dry ridge and hip system.

Key features

- Mortar free, making it quick to install.
- Tested to BS 8612 to support compliance with 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 ridge tiles.
- Conversion kit available when using with shorter 300mm clay ridge tiles*.

Related products

- Flashing Glue PACCGL p93.

Product code	Description	Colour	Pallet quantity
KR5100-0100	Roll Fix Universal Kit	Red	72
KR5100-0200		Brown	
KR5100-0402		Anthracite	
KR5100-6	Conversion Kit for Clay Ridge	Black	
KR0200-51	Ridge Seal Replacement		

*Please consult Klober Technical Services Department with any compatibility queries.

Dry Ridge and Hip Systems

Roll Fix Concrete Kit

Breathable
fleece



Concrete Seal with Lugs



★ Improved
adhesion

↗ Enhanced
flexibility



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

Key features

- The seal comes with fixed lugs for easy application on concrete ridge tiles.
- Mortar free, making it quick to install.
- Tested to BS 8612 to support compliance with BS 5250 for ventilation and BS 5534 for mechanical fixing.

Area of application

- Suits most concrete ridge tiles*.

Related products

- Flashing Glue PACCGL p93.

Product code	Description	Colour	Pallet quantity
KR5000-0100	Roll Fix Concrete Kit	Red	60
KR5000-0200		Brown	
KR5000-0402		Anthracite	
KR0200	Ridge Seal Replacement	Black	

*Please consult Klober Technical Services Department with any compatibility queries.

Roll Fix Hip Kit

Breathable
fleece



Concrete Seal with Lugs
+ Clay Conversion Option



★ Improved
adhesion

↗ Enhanced
flexibility



A universal dry hip system, includes Hip Trays and Clips.

Key features

- Everything required in one kit to complete the job.
- The seal comes with fixed lugs.
- Tested to BS 8612 to support compliance with BS 5250 for ventilation and BS 5534 for mechanical fixing.

Area of application

- Suits most hip tiles*.
- Conversion kit available for use with 300mm clay hip tiles*.



Related products

- Flashing Glue PACCGL p93.

Product code	Description	Colour	Pallet quantity
KR5001-1-0100	Roll Fix Hip Kit	Red	40
KR5001-1-0200		Brown	
KR5001-1-0402		Anthracite	
KR5001-6	Roll Fix Conversion Kit for Clay Hip	Black	
KR0201	Ridge Seal Replacement for Concrete Hip Kit		

*Please consult Klober Technical Services Department with any compatibility queries.

Dry Ridge and Hip Systems

Roll Fix Clay Half Round Ridge Kit

Breathable
fleece



Half Round
Ridge Seals



Improved
adhesion

Enhanced
flexibility



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

Key features

- Mortar free, making it quick to install.
- Rigid seal designed specifically for clay half round ridge.
- Tested to BS 8612 to support compliance with 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 p93.

Product code	Description	Colour	Pallet quantity
KR5003-0100	Roll Fix Clay Half Round Ridge Kit	Red	40
KR5003-0200		Brown	
KR5003-0402		Anthracite	
KR999300	Ridge Seal Replacement for Clay Half Round Ridge	Black	

*Please consult Klober Technical Services Department with any compatibility queries.

Accessories

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			
KP973700	Hip Support Tray		470	12 x Trays	10 x Trays
KP973120	Hip Support Tray		1200		
KP973175	Hip Support Tray		1750		

Product code	Description	Colour	Pack contents
KR9670-0450	Angled Clamping Plates for Roll Fix Dry Ridge	Black	11
KR9694-0450	Flat Clamping Plates for Clay Half Round Ridge		17
KR0156	Fixing Clip for Hip and Valley(Cro Clips)		25 x Clips
KR969500	Pack Uni Dry Screws/Washers		11
KR978000	Batten Straps Pack		9

Lead Alternatives

Lead Alternatives	86
Wakaflex	89
EasyForm	91
Accessories	92

What are Lead Alternatives?

Providing an alternative to traditional lead applications, lead free flashings are used to prevent water from penetrating the building structure at potentially vulnerable joints and intersections.

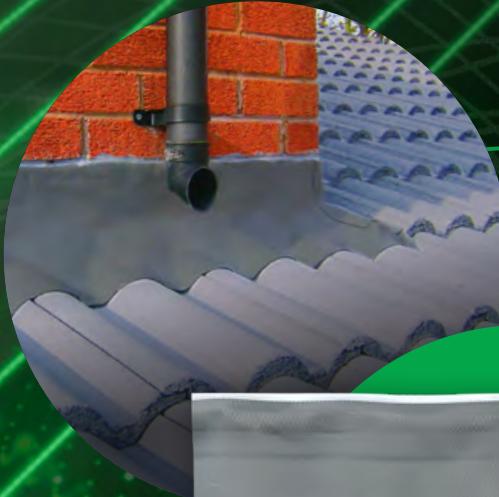


HOW TO INSTALL

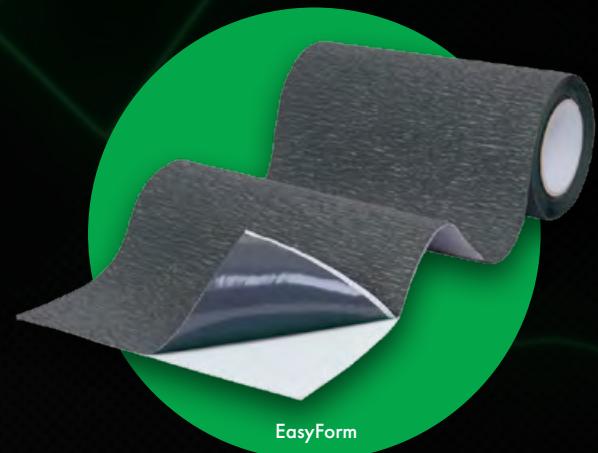
Learn how to install Wakaflex lead free flashing. Find the full video series at klober.co.uk/video



*Consult MCS Certified System to confirm compatibility.



Wakaflex



EasyForm

The Range

Klober's lead alternative range consists of two products; Wakaflex, the original alternative to lead and EasyForm, our entry level solution.

Wakaflex p89

EasyForm p91

This BBA certified lead free flashing provides a durable weathertight connection.

- **Weathertight connection**
with its pioneering self-welding technology
- **Tear-resistant**
with its integrated aluminium grid
- **Easy positioning & installation**
with butyl strip backing



Download
the Wakaflex
brochure



Wakaflex



Wakaflex is our premium four-layer flashing solution. Made up of flexible PIB (Polyisobutylene), reinforced with an aluminium mesh and butyl strips, it provides a secure connection and prevents wind uplift.

Best for

Traditional flashing details on clay and concrete tiled roofs. It is suitable for use on more complex detailing due to its flexible properties and ease of installation.

Key features

- High pliability for easier detailing.
- The smooth surface makes it less likely to retain dirt particles.
- Robust and tear-resistant.
- Perforated release paper allows easy installation.



Product code	Width mm	Length m	Colour	Box quantity
PWF140GR	140	5	Lead Grey	2
PWF180GR	180		Lead Grey	
PWF280AN	280		Anthracite	4
PWF280GR	280		Lead Grey	
PWF280GR-10	10	Lead Grey	2	
PWF370AN	370	5	Anthracite	3
PWF370GR	370		Lead Grey	
PWF560AN	560		Anthracite	2
PWF560GR	560	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

KLOBER.CO.UK



Lead Alternatives

EasyForm



EasyForm is a three-layer aluminium composite flashing with a full butyl backing.

Best for

This entry level flashing offers a high level of pliability, making it suitable for more complex areas as well as straight runs.

Key features

- Made of creped aluminium composite butyl backed layer and release foil.
- Allows high levels of pliability.
- Full butyl backing.

Key Benefits

- Ensures adaptability for more complex detailing.
- Provides protection to key areas of the roof.
- No welding or specialist tools required.

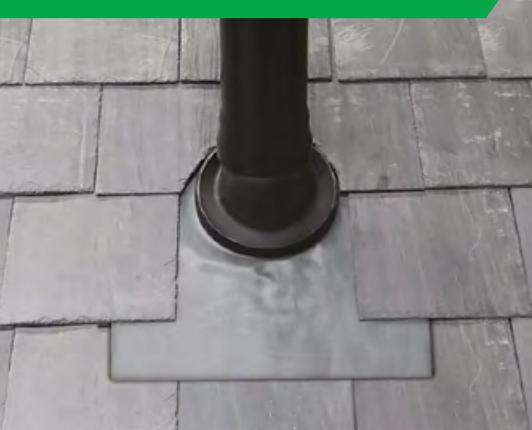
Product code	Width mm	Length m	Colour	Box quantity
KW0200-05-0469	200	5	Anthracite	5
KW0250-05-0469	250		Anthracite	
KW0300-05-0469	300		Anthracite	
KW0300-05-0470			Zinc Grey	
KW0450-05-0469			Anthracite	
KW0450-05-0470	450		Zinc Grey	2

Flashing Roller



Product code	Width mm	Box quantity
PACCRO	35	12

Wakaflex Uni Outlet



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

Roller to give a neat 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, all sizes p89.
- EasyForm, all sizes p91.
- Wakaflex Uni Outlet PWFUO560GR p92.

M Glue



Product code	Size ml	Colour	Box quantity
PACCGL	290	Black	12

A gun applied glue for flashings.

Key features

- M Glue makes it possible to install a flashing in damp conditions.
- Once opened it can be resealed and used again.

Area of application

- Installing lead free flashings and ridge rolls onto damp surfaces.

Related products

- Wakaflex, all sizes p89.
- EasyForm, all sizes p91.
- Dry Ridge Kits p77-82.

Flashing Sealant



Product code	Size ml	Colour	Box quantity
PACCSE	310	Transparent	20

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.
- Sealing compound K.

Area of application

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

Related products

- Wakaflex, all sizes p89.
- EasyForm, all sizes p91.

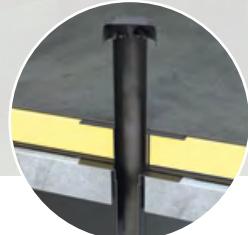


Flat Roofing

Drainage Outlets	98
Cable Outlets	100
Ventilation Outlets	101
Mechanical Ventilation Outlets	103
Accessories	104

Flat Roofs

Whether you're looking for components to complete a small refurbishment project or a large commercial flat roof, we can offer a number of flat roof solutions to fit your requirements, from rainwater and ventilation outlets to cable outlets and mechanical extraction solutions.



Ventilation Outlets p101
Creates optimal airflow and mechanical extraction solutions for living spaces.



Cable Outlets p100

Designed to thread cables through flat roofs for solar panels and outdoor lighting.



Draining Outlets p98

Available with bitumen skirts or PVC flanges. Rainwater grills also prevent pipe blockages from leaves and other debris.

Mechanical Vent Outlets p103

Offering airflow solution for mechanical and static ventilation.

Flavent Rainwater Outlet Grill



Leaf grill for water drainage.

Key features

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

Area of application

- For drainage of flat roofs.

Related products

- Rainwater Outlet Vent Base with PVC Flange KF6500, all sizes p98.
- Rainwater Outlet Vent Base with Bitumen Skirt KF6501, all sizes p99.
- Rainwater Parapet Outlet KF6530-1, all sizes p99.

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 waterproof connection of PVC membranes and liquid plastics.

Key features

- PVC Flange provides a waterproof connection with PVC membranes and liquid plastics.

Area of application

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

Related products

- Rainwater Outlet Grill KF6819, all sizes p98.
- Insulation Package Pipe Extension KF6836, p104.
- PVC Adhesive Tangit KF6828 p105.

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

- Bitumen Skirt can be joined to a bitumen waterproofing flat roof system.

Area of application

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

Related products

- Rainwater Outlet Grill KF6819, all sizes p98.
- Insulation Package Pipe Extension KF6836, all sizes p104.
- PVC Adhesive Tangit KF6828 p105.

Flavent Rainwater Parapet Outlet



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

Key features

- Installed in roofs, balconies and terraces.
- Extendable.
- Please note; the extension pipe is grey.

Area of application

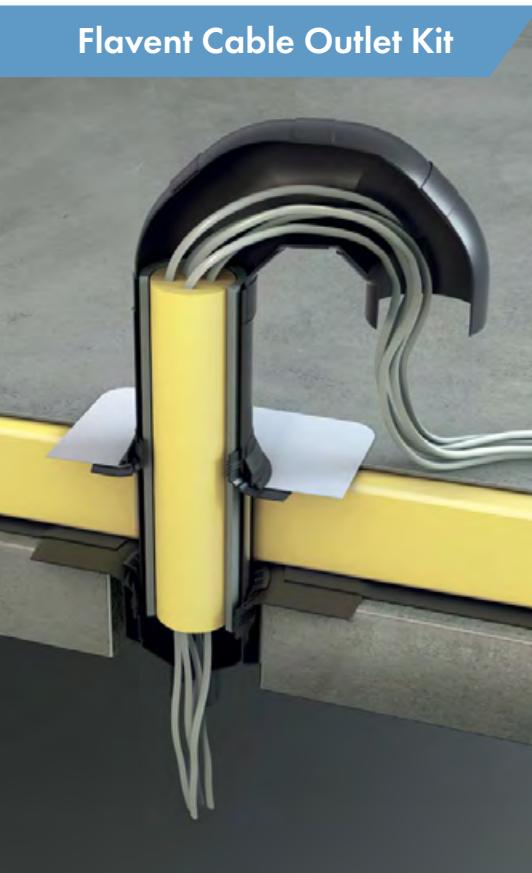
- For drainage of flat roofs, balconies and terraces.

Related products

- Rainwater Outlet Grill KF6819, all sizes p98.
- Upper Pipe Extension KF6836, all sizes p104.
- PVC Adhesive Tangit KF6828 p105.

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 pass through flat roofs ensuring a sealed penetration.

Key features

- For installation on roofs, balconies and terraces.
- Extendable.

Area of application

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

Related products

- Upper Pipe Extension KF6806, all sizes p104.
- Insulation Package Pipe Extension KF6836, all sizes p104.
- PVC Adhesive Tangit KF6828 p105.



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.

Key features

- Aids ventilation above the insulation layer.
- Suitable for most roof coverings including bitumen and PVC roof membranes.
- Available with screw connector for use with single ply membranes.

Area of application

- For drying out roofs after construction or renovation.

Related products

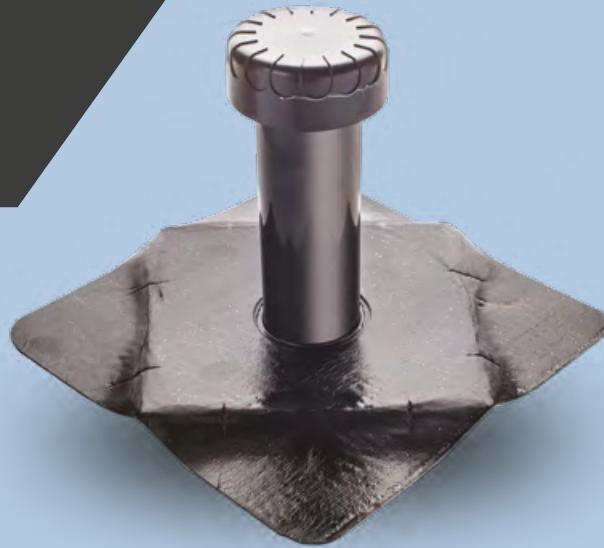
- Upper Pipe Extension KF6806, all sizes p104.
- PVC Adhesive Tangit KF6828 p105.

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			261	70	
KF6011		500	500	345.5	100	
KF6031				411	125	
KF6022	Ventilation Outlet with Screw Connector			346.7	100	350
KF6032				411	125	366

FLAVENT VENT PIPE



**BRINGING AIRFLOW
AND VENTILATION
TO LIVING SPACES.**



Mechanical Ventilation Outlets

Flavent Vent Pipe



Vent Pipes to create airflow in living spaces.

Key features

- Facilitates airflow and mechanical extraction.
- Suitable 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 p104.
- Insulation Package Pipe Extension KF6836, all sizes p104.
- PVC Adhesive Tangit KF6828 p105.

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 Pipe Extension



Pipe extension for differing insulation thicknesses.

Key features

- Allows extension between two part roof outlets
- Can be extended to suit any thickness of insulation.
- Can be cut to length as required.
- Please note this product is grey in colour.

Area of application

- Suitable for insulated flat roofs.

Related products

- PVC Adhesive Tangit KF6828 p105.

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

- Used for extending the height of the pipe in insulated roofs.
- Can be cut to length as required.

Area of application

- Suitable to extend the Klober Ventilation Outlet in green roofs.

Related products

- PVC Adhesive Tangit KF6828 p105.

Product code	Height mm	Diameter mm
KF6806	250	70
KF6807	340	100
KF6808	300	125

PVC Adhesive Tangit



Bonding Adhesive for all Klober Outlets and extensions.

Key features

- Tangit can be used with socketed joints.
- For individual screw connection joints.

Area of application

- When using tangit around a joint, the gap must be no more than 0.6mm.

Related products

- Upper Pipe Extension KF6806, all sizes p104.
- Insulation Package Pipe Extension KF6836, all sizes p104.

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 p103.
- Vent Pipe with Bitumen Skirt KF6041, all sizes p103.
- Ventilation Outlet with PVC Flange KF6000, all sizes p101.
- Ventilation Outlet with Bitumen Skirt KF6001, all sizes p101.

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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In Line Double Pantile Vents	14
In Line Single Pantile Vents	15
In Line Limarech Tile Vents	15
In Line Flat Tile Vents	16
In Line 15x9 Tile Vents	16
In Line Twin Plain Tile Vents	17
In Line Thin Line Tile Vents	17
Uni-Line Tile Vents	18
Universal 20k Tile Vents	19
Universal Tile Vents	19
Traditional Tile Vents	21
Small Slate Vents	22
Uni-Line Slate Vents	23
10k Slate Vents	24
20k Slate Vents	24
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Finding the Right Tile Vent

Tile Manufacturer Compatibility Chart

MANUFACTURER TILES		KLOBER TILE VENTS					
		Tile Profile	Material	Compatibility	Part No.	Page No.	Universal Tile Vents*
BMI Redland	Concrete	Clay Plain Tiles	Clay	Clay Plain Tile Vent**	KG4321-3	26	✓
		Delta		Traditional Tile Vent	KG4096-3	21	
		50 Double Roman		Double Roman Tile Vent	KG9857-3	14	✓
		Downland		Uni-Plain Tile Vent	KG9918	27	✓
		Duoplain		Twin Plain Tile Vent	KG9861	17	
		Fenland Pantile		Single Pantile Tile Vent	KG9860	15	
		Grovebury		Double Pantile Tile Vent	KG9858-3	14	✓
		Heathland		Uni-Plain Tile Vent	KG9918	27	✓
		Landmark 10		Thin Line Tile Vent	KG9855-3	17	✓
		Landmark Double Pantile		Double Pantile Tile Vent	KG9858-3	14	✓
		Landmark Double Roman		Double Roman Tile Vent	KG9857-3	14	✓
		Mini Stonewold		Flat Tile Vent	KG9856-3	16	✓
		Mockbond Mini Stonewold		Flat Tile Vent	KG9856-3	16	✓
		Mockbond Richmond 10		Thin Line Tile Vent	KG9855-3	17	✓
		Norfolk Pantile		Single Pantile Tile Vent	KG9860	15	
		Plain Tile		Uni-Plain Tile Vent	KG9918	27	✓
		Redland 49		15x9 Tile Vent	KG9690	16	
		Regent		Traditional Tile Vent	KG6084-3	21	✓
		Renown		Limarech Tile Vent	KG9859-3	15	✓
		Richmond 10		Thin Line Tile Vent	KG9855-3	17	✓
		Saxon 10		Thin Line Tile Vent	KG9855-3	17	✓
		Stonewold Mk II		Traditional Tile Vent	KG6083-3	21	
Forticrete	Concrete	Centurion		Single Pantile Tile Vent	KG9860	15	
		Gemini		Twin Plain Tile Vent	KG9861	17	
		Mini Slate		Twin Plain Tile Vent	KG9861	17	
		V2		15x9 Tile Vent	KG9690	16	
Efex	Fibre Cement	Birkdale		Uni-Line Slate Vent	KG9630	23	
		Garsdale(Thrustone textured)		Uni-Line Slate Vent	KG9630	23	
		Rivendale		Uni-Line Slate Vent	KG9630	23	
		Thrustone		Uni-Line Slate Vent	KG9630	23	

*Klober Universal Tile Vents: Uni-Line Tile Vent KG9853. Universal Tile Vent KG9854 & Universal 20k Tile Vent KG9854-20

Tiles and batten will need to be cut when using universal vents with clay and concrete plain tiles. Uni-Line Tile Vent KG9853 not suitable for plain tiles.

**The Uni Plain Tile Vent KG9918 can be used with clay plain tiles but due to the varying nature of clay compatibility should be checked with our Technical Services Department.

MANUFACTURER TILES		KLOBER TILE VENTS					
		Tile Profile	Material	Compatibility	Part No.	Page No.	Universal Tile Vents*
Marley	Concrete	Clay Plain Tiles	Clay	Clay Plain Tile Vent**	KG4321-3	26	✓
		Anglia		Single Pantile Tile Vent	KG9860	15	
		Ashmore		Twin Plain Tile Vents	KG9861	17	
		Bold Roll		Traditional Tile Vent	KG6085-3	21	✓
		Double Roman		Double Roman Tile Vent	KG9857-3	14	✓
		Duo Edgemere		Thin Line Tile Vent	KG9855-3	17	✓
		Duo Modern		Flat Tile Vent	KG9856-3	16	✓
		Ecologic Ludlow Major		Limarech Tile Vent	KG9859-3	15	✓
		Edgemere	Concrete	Thin Line Tile Vent	KG9855-3	17	✓
		Ludlow Major		Limarech Tile Vent	KG9859-3	15	✓
		Ludlow Plus		15x9 Tile Vent	KG9690	16	
		Mendip		Double Pantile Tile Vent	KG9858-3	14	✓
		Modern		Flat Tile Vent	KG9856-3	16	✓
		Plain Tile		Uni-Plain Tile Vent	KG9918	27	✓
		Riven Edgemere		Thin Line Tile Vent	KG9855-3	17	✓
		Wessex		Traditional Tile Vent	KG6092-3	21	✓
Wienerberger (Sandtoft)	Concrete	Clay Plain Tile	Clay	Clay Plain Tile Vent**	KG4321-3	26	✓
		Cassius	Clay	-			✓
		Rivius	Clay	-			✓
		Calderdale		Flat Tile Vent	KG9856-3	16	✓
		Calderdale Edge		-			✓
		Double Pantile		Double Pantile Tile Vent	KG9858-3	14	✓
		Double Roman		Double Roman Tile Vent	KG9857-3	14	✓
		Dual Calderdale Edge		-			✓
		Dual Calderdale	Concrete	Flat Tile Vent	KG9856-3	16	✓
		Dual TLE		Thin Line Tile Vent	KG9855-3	17	✓
		Lindum		Limarech Tile Vent	KG9859-3	15	✓
		Plain Tile		Uni-Plain Tile Vent	KG9918	27	✓
		Shire Pantile		Single Pantile Tile Vent	KG9860	15	
		Standard Pattern		15x9 Tile Vent	KG9860	16	
		TLE		Thin Line Tile Vent	KG9855-3	17	✓
Brito	Resin Slate	Brito	Resin Slate	Uni-Line Slate Vent	KG9630	23	

*Klober Universal Tile Vents: Uni-Line Tile Vent KG9853. Universal Tile Vent KG9854 & Universal 20k Tile Vent KG9854-20

Tiles and batten will need to be cut when using universal vents with clay and concrete plain tiles. Uni-Line Tile Vent KG9853 not suitable for plain tiles.

**The Uni Plain Tile Vent KG9918 can be used with clay plain tiles but due to the varying nature of clay compatibility should be checked with our Technical Services Department.

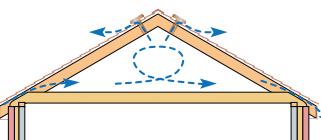
Tile Manufacturer Compatibility Chart Continued...

MANUFACTURER TILES		KLOBER TILE VENTS				
	Tile Profile	Material	Compatibility	Part No.	Page No.	Universal Tile Vents*
Mannok	Devonish	Concrete	Thin Line Tile Vent	KG9855-3	17	✓
	Locherne		Double Pantile Tile Vent	KG9858-3	14	✓
	Rathmore Duo		Thin Line Tile Vent	KG9855-3	17	✓
	Rathmore Slate		Thin Line Tile Vent	KG9855-3	17	✓
	Western Slate		Flat Tile Vent	KG9856-3	16	✓
Breedon	Double Roll	Concrete	Double Roman Tile Vent	KG9857-3	14	✓
	Elite		Thin Line Tile Vent	KG9855-3	17	✓
	Flat		Flat Tile Vent	KG9856-3	16	✓
	Square Top		-			✓
Russell	Bute	Concrete	Thin Line Tile Vent	KG9855-3	17	✓
	Cheviot		Limarech Tile Vent	KG9859-3	15	✓
	Double Roman		Double Roman Tile Vent	KG9857-3	14	✓
	Galloway		Thin Line Tile Vent	KG9855-3	17	✓
	Grampian		Flat Tile Vent	KG9856-3	16	✓
	Highland		Flat Tile Vent	KG9856-3	16	✓
	Lothian		Thin Line Tile Vent	KG9855-3	17	✓
	Moray		Thin Line Tile Vent	KG9855-3	17	✓
	Pennine		Double Pantile Tile Vent	KG9858-3	14	✓
	Polden		Thin Line Tile Vent	KG9855-3	17	✓
	Regency		Uni-Plain Tile Vent	KG9918	27	✓
	Traditional Plain		Uni-Plain Tile Vent	KG9918	27	✓
Slates	Up to 400 x 250mm	Natural Slate	Mini Uni Line Slate Vent	KG9631	23	
	500mm x 250mm	Fibre Cement Slate	Uni-Line Slate Vent	KG9630	23	
	500mm x 250mm	Natural Slate	Uni-Line Slate Vent	KG9630	23	
	600mm x 300mm	Fibre Cement Slate	Uni-Line Slate Vent	KG9630	23	
	600mm x 300mm	Natural Slate	Uni-Line Slate Vent	KG9630	23	
Northstone	Causeway	Concrete	Thin Line Tile Vent	KG9855-3	17	✓
	Causeway Riven		Thin Line Tile Vent	KG9855-3	17	✓
	Donard		Flat Tile Vent	KG9856-3	16	✓
	Dunluce		Thin Line Tile Vent	KG9855-3	17	✓

* Klober Universal Tile Vents: Uni-Line Tile Vent KG9853. Universal Tile Vent KG9854 & Universal 20k Tile Vent KG9854-20
Tiles and batten will need to be cut when using universal vents with clay and concrete plain tiles. Uni-Line Tile Vent KG9853 not suitable for plain tiles.

Recommended Ventilation Requirements

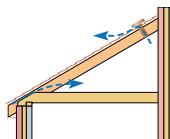
Duo Pitch Cold Roof over 15°



The equivalent of a continuous 10mm ventilation opening at low level. For roof pitches over 35° and/or spans of over 10m this should be combined with the equivalent of a 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.

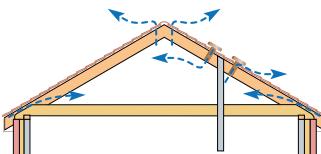
Mono Pitch Cold



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

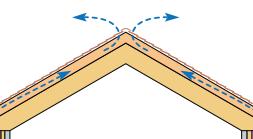
For roof pitches below 15° the low-level ventilation should be increased to the equivalent of a 25mm ventilation opening.

Duo Pitch Cold Roof over 15° with Dividing Walls



The equivalent of a continuous 10mm ventilation opening at low level combined with the equivalent of a 5mm ventilation opening at high level. Where dividing walls are parallel to the eaves, additional tile vents are required equivalent to a continuous 5mm ventilation opening below the wall and equivalent to a 10mm ventilation opening above the wall.

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 minimum 25mm ventilated void between the insulation and underlay should be maintained. This measurement should be taken from the lowest point of the draped underlay.

The above information is based on the use of a non breathable roofing membrane. The choice of roofing membrane combined with the type of construction may influence the amount of ventilation required; and in some cases air permeable membranes may negate the need entirely. For more information please refer to klober.co.uk



BAY 2

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We aim to provide accurate and helpful guidance regarding the compatibility of our universal roofing components however it is essential that site specific consideration is given to their intended use when installed in order to ensure compatibility.

The information contained within this publication is believed to be correct at the time of print. No responsibility can be accepted for printing errors.

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