

# KLOBER

## PRODUCT GUIDE



Klober, part of the BMI Group, continues to be recognised as one of Europe's leading manufacturers of universal roofing components.

Klober focuses on developing and manufacturing universal components of the highest quality for flat and pitched roofs. With rigorous testing, innovative solutions and a comprehensive range of roofing components, Klober's name is synonymous with value and quality.

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



SCAN CODE

# KLOBER

BAY 2

## Ventilation

### Vents

In Line Tile Vents	13
Universal Tile Vents	18
Traditional Tile Vents	21
Slate Vents	22
Plain Tile Vents	26
Tile Vent Accessories	28
Solar and Snow Systems	30

### Eaves

Eaves Ventilation	32
-------------------	----

## Membranes

### Pitched Roofing

Eco 110	46
Ultra 120	47
Ultra 145	48
Forte 145	49
Air 160	50
Extreme 200	51
Sec 400	52
Sepa Light	53
Accessories	56

### Wall and Vapour Control Layers

Sepa Solar	54
Permo Frame	55
Wallint 50	55
Accessories	56

## Dry Verge and Valleys

### Dry Verge

Uni-Click	62
Ambi-Click	63
Thin Leading Edge	64
Continuous	65
Contract	66
Accessories	67

### Valleys

GRP & Dry Valleys	69
Bonding Strips & Secret Gutters	70

## Ridge and Hip

Klober Dry Ridge Kits	76
Roll Fix Kits	78
Accessories	83

## Lead Alternatives

Wakaflex	89
EasyForm	91
Accessories	92

## Flat Roofing

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

# Why Choose Klover?

**BMI**

## Klover is part of the BMI Group.

We are in control of our supply chain: sourcing our raw materials from consistent and reliable sources; manufacturing products to the highest standards with safety and sustainability high on our agenda, to smart delivery and packaging.



**The name Klover means you can expect high quality and good value.** Klover is a leading manufacturer of universal roofing components. Quality and value are at the centre of what we do. We offer a full range of roofing products and our aim is to bring innovative solutions to the marketplace.



## 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 standard ensures we give our customers peace of mind all day and everyday.



## Guarantee

All products supplied by Klover Ltd are covered by a 10 year guarantee against unlikely manufacturing defects. Guarantee exclusions include colour stability, poor workmanship and incorrect installation. Products should be installed as per our literature, fixing instructions and/or guidelines set out in British Standards and BBA/NSAI certificates.



## Certification & approvals

All Klover products meet UK Building Regulations, British Standards and are BBA, NSAI and CE /UKCA certified where applicable. Klover always aims for its products to meet the strictest standards using regulation bodies and its own technical centres.

**To learn more about Klover and to find your nearest stockist, visit [klover.co.uk](http://klover.co.uk)**



# Supporting Installers



## National Sales Team

Our national team of specialists work closely with our network of merchants to ensure Klover 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. To find details of your Area Account Manager, visit [klover.co.uk](http://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**

## 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 Klobber 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 new Klobber 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](https://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.

#### Are you a merchant looking for product data?

Access Filecamp, Klobber'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](https://klober.co.uk/filecamp)

# KLOBBER TRAINING ZONE

Want to learn about the fundamentals of roofing?

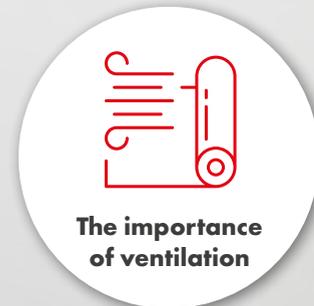
### Join the Klobber Training Zone

Our new learning platform with courses, modules and resources to support you to learn more about Klobber products and key roofing topics.

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



How to install key products



The importance of ventilation



What makes up a roof?



and much more...



Request access today: [klober.co.uk/trainingzone](https://klober.co.uk/trainingzone)

Follow our YouTube channel: [youtube.co.uk/kloberltd](https://youtube.co.uk/kloberltd)



# Ventilation

## Vents

In Line Tile Vents	13
Universal Tile Vents	18
Traditional Tile Vents	21
Slate Vents	22
Plain Tile Vents	26
Accessories	28
Solar and Snow Systems	30

## Eaves

Eaves Ventilation	32
-------------------	----

# 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.**

Choose from our cleverly designed In Line range for a discreet ventilation solution matched to the tile profile, or the convenience of a universal solution, with options for enhanced ventilation performance.

Manufactured from polymers carefully chosen for a combination of their strength and UV properties, you can be sure a Klober tile vent will offer continued performance.

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

Klober tile vents are also a popular choice for introducing additional ventilation into existing buildings, as a proven and reliable solution for eliminating 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**



## A VENT FOR EVERY ROOF

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



## PEACE OF MIND

All of our tile vents are backed by a 10 year guarantee.



## DESIGNED TO LAST

Made from durable plastic, including high-performing ASA material in our market-leading 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 Klobber's Tile Vent range  
[klobber.co.uk/video](http://klobber.co.uk/video)



SCAN CODE TO WATCH



## In Line Tile Vent Range



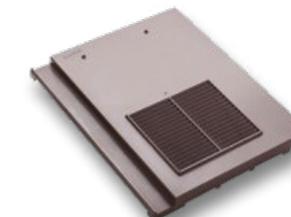
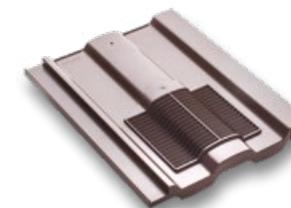
A neat, cleverly designed InLine range suitable for the most popular concrete interlocking roof tiles.

### Key features

- Sleek in-line design making it virtually invisible on 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.



Double Roman Tile Vents



**Area of application**

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

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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	

Double Pantile Tile Vents



**Area of application**

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

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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	

Single Pantile Tile Vents



**Area of application**

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

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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	

Limarech Tile Vents



**Area of application**

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

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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	
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.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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	
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.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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	

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.

Box Qty: 1

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

Universal 20k Tile Vents



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour
KG9854-20-0247	424	454	20,000	Brown
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 20,000mm<sup>2</sup> 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.

**Compatible with**

- Adaptor KG979700 p29.

Box Qty: 10

Universal Tile Vents



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour
KG985403	424	454	15,000	Antique Red
KG985430				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.
- Spare caps available.
- 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 KG979900-1 p29 / KE8042-3 p28.

Box Qty: 10



## 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



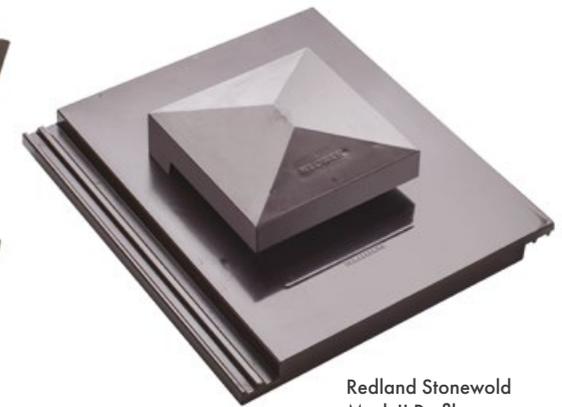
Redland Regent



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 is required providing 15,000mm<sup>2</sup> 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.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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	334			Brown	Redland Regent
KG6084-3-0400				Grey	
KG6085-3-0200	Brown			Marley Bold Roll	
KG4096-3-0200	385	430		Brown	Redland Delta

\*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.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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 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.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Tile compatibility
<b>Uni-Line Slate Vents</b>					
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	
<b>Mini Uni-Line Slate Vents</b>					
KG9631-0403	300	450	6,500	Dark Slate	Up to 400 x 250mm (16" x 10") double lap slate tiles
KG9631-0429				Slate Grey	

## Slate Vents

### 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 tiles.
- High and low level ventilation.

#### Compatible with

- Adaptor KG979100 p29.
- Flexipipe KG979900 p28.

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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 20,000mm<sup>2</sup> ventilation area.
- Perfect solution for heat recovery system 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

Box Qty: 10

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Tile compatibility
KG9795-0429	380	600	20,000	Slate Grey	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.

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	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.

Box Qty: 10

Brown



Terracotta



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour
KG4321-3-0200	500	370	9,000	Brown
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.

**Width:** 330mm

**Length:** 300mm

**Vent Area:** 6,000 mm<sup>2</sup>

**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.

Box Qty: 10



Hedgerow Brown

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

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.

Tile compatibility	Product code	Diameter mm	Length mm	Product
<b>Adaptor and Flexipipe</b>				
InLine Tile Vents and 10k Slate Vent	KG979200	100		
Universal Tile Vents and Large Slate Vents	KG979800-1			
Uni-Plain Tile Vents	KG992800			
<b>Flexipipe</b>				
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	

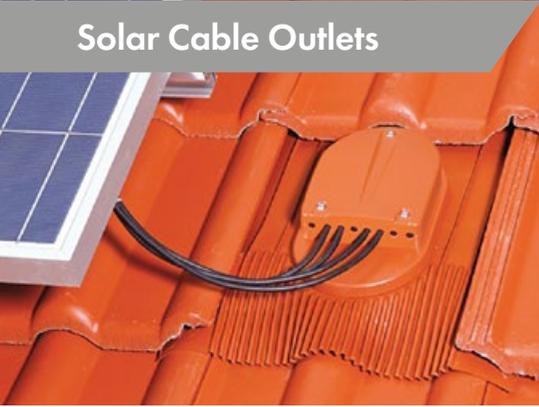
### Key features

- 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.

All Adaptors and Flexipipes are available in boxes of 10

Tile compatibility	Product code	Diameter mm	Product
<b>Adaptor</b>			
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 Cable Outlets



Supports the passage of cables and pipework through the roof whilst creating a watertight and weatherproof protective seal to avoid rainwater entering the roofspace.

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

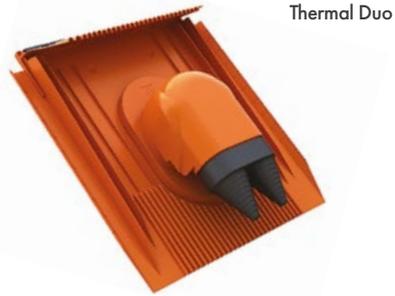
### Key features

- Easy to install
- Creates a watertight seal to prevent water from entering the roofspace
- Choose from single or duo solar thermal outlets, or the Cable Outlet Kit which allows the passage of 8 cables.

Box quantity: 1 pc



Thermal Single  
(Slate base shown)



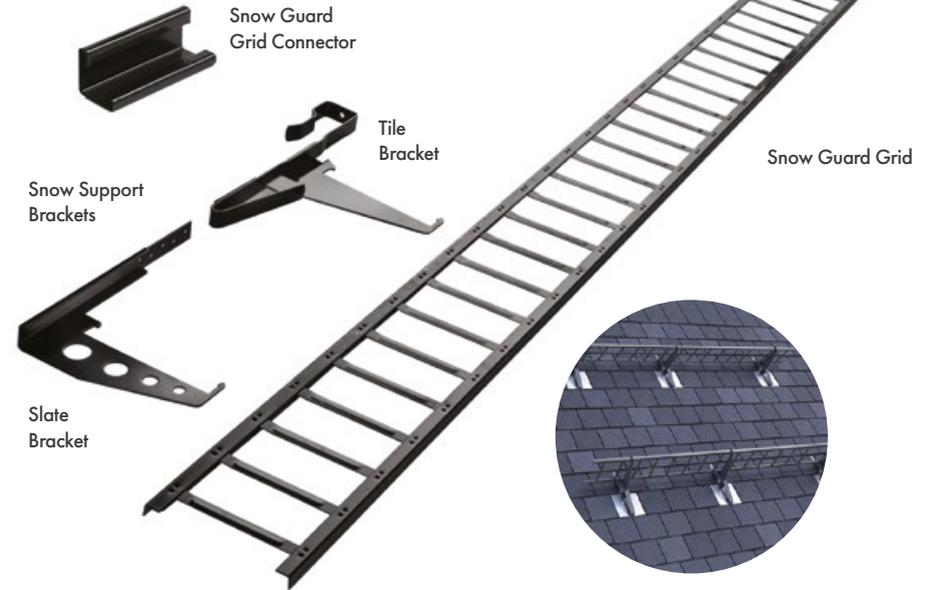
Thermal Duo



Cable Outlet Kit

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)	400	400		Black
Solar Thermal Duo	KE8270-3-0100	424	454	131	Red
	KE8270-3-0429				Anthracite
Cable Outlet Kit	KE8073-3-0100	424	454	73	Red
	KE8073-3-0429				Anthracite

## Snow Guard System



Prevents snow falling from the roof.

### 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, not suitable for plain tiles
- 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

# Eaves Ventilation

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

The Klover 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.

### British Standards (BS 5250)

The amount of ventilation required is defined by BS 5250: 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.



As well as providing the necessary ventilation openings from outside, we need to ensure that this ventilation air 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.

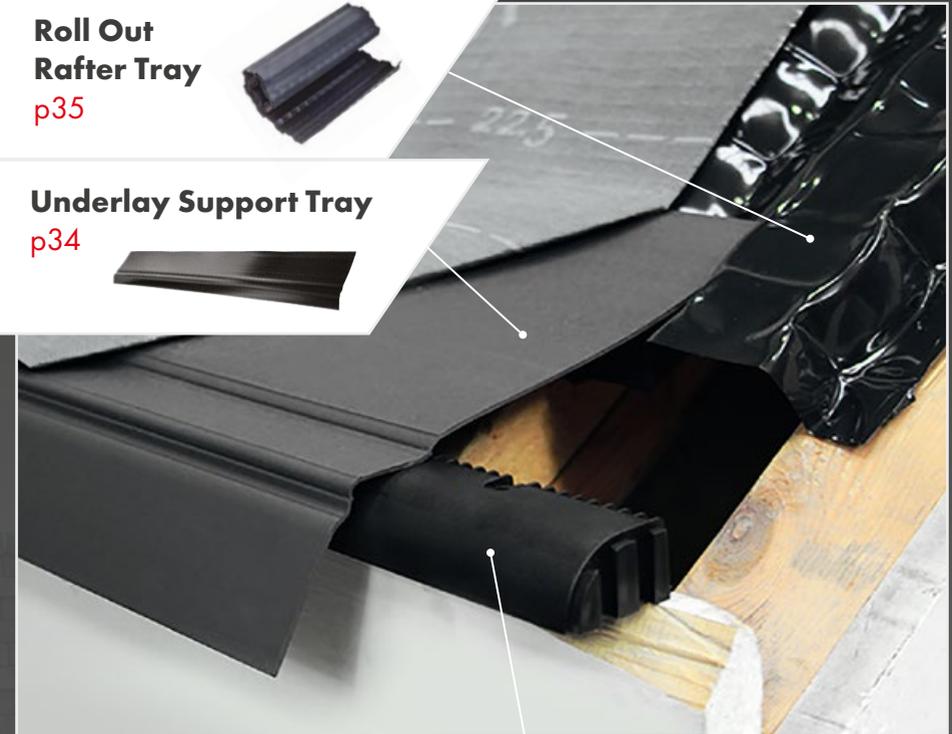
Alternatively the Loft Vent Tray (p34) can be installed from inside the loft area and is used to maintain a pathway following the installation of loft insulation, which can block up existing air entry points.



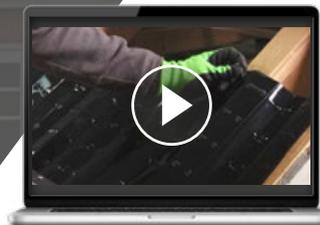
**Roll Out Rafter Tray**  
p35



**Underlay Support Tray**  
p34



**Over Fascia Vents** p39



## HOW TO INSTALL

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

Part of our Installation video series at: [klover.co.uk/video](https://www.klover.co.uk/video)



SCAN CODE TO WATCH

Loft Vent Tray



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.
- Colour: Black.

**Area of application**

Suitable for all roofs.

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

Underlay Support Tray



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.
- Colour: Black.

**Area of application**

Suitable for all roofs.

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

Rafter Tray



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.
- 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		

Roll Out Rafter Tray



A barrier and ventilation path between the insulation and roof.

**Key features**

- Available in five widths.
- Quick and easy to install.
- Lightweight and durable.
- 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	400			
KP971600	600			
KP971700	800			
KP971900	1000			5



# 3-IN-1 EAVES VENT PACK

EVERYTHING YOU NEED FOR EAVES VENTILATION.



## Eaves Ventilation

### 3-in-1 Eaves Vent Pack



### 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.
- 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

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

#### Key features

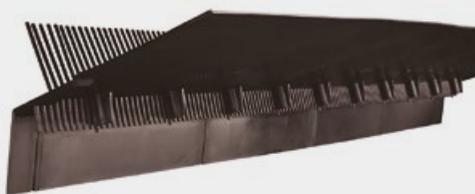
- Everything you need in one pack.
- Quick and easy to install.
- Prevents ponding behind the fascia board.
- Colour: Black.

#### Area of application

450 - 600mm rafter centres.

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

## Vented Eaves Protector



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.
- 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 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.
- Colour: Black.

### Area of application

All counter batted 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.
- Lightweight and durable.
- 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	Width mm	Length m	Depth 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 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.

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

# Membranes

## Roof

Eco 110	46
Ultra 120	47
Ultra 145	48
Forte 145	49
Air 160	50
Extreme 200	51
Sec 400	52
Sepa Light	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 an amount of 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 a HR membrane, although the amount required will depend on the type of construction.

It is important to note that the NHBC guidelines 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.

## Air open membranes

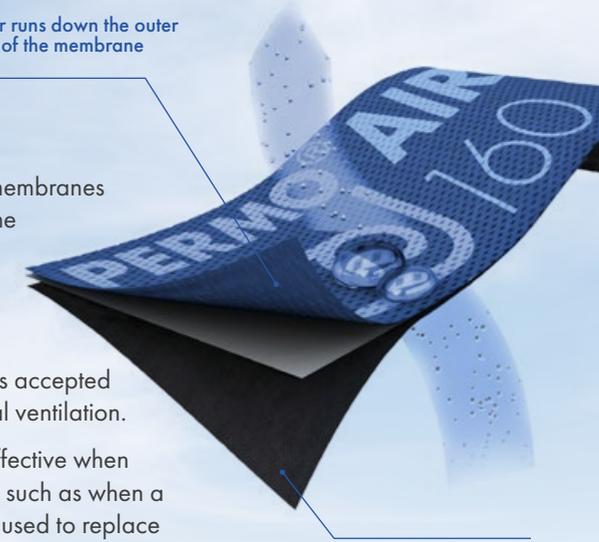
There are some extremely breathable membranes that also allow air movement through the membrane as well - these are known as air open membranes and are normally validated by third party certification such as BBA. Klober's BBA approved Permo Air 160 for example is accepted by the NHBC as requiring no additional ventilation.

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 and Specialist. Everyday membranes by Klober are high performance membranes for an everyday solution, whereas the Specialist range incorporates Klober technology to offer additional benefits and specific solutions.

Water runs down the outer layer of the membrane



Air and vapour passes through underlay



## Wind Zones

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

All Klober membranes are CE and UKCA marked



# The Klober Membrane Range

## Every Roof Covered

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

### Everyday Range



### ECO 110

Klober's lowest weight option, a breather membrane for budget-conscious projects

### ULTRA 120

Mid-weight breather membrane, for affordable quality

### ULTRA 145

High quality everyday breather membrane with additional strength giving greater protection

Product

Best For...

Value everyday

Mid-weight everyday membrane

High quality everyday

Weight (g)

110g

120g

145g

Page

46

47

48

### Specialist Range



### FORTE 145

Breathable membrane with built-in grid for added strength

### AIR 160

NHBC accepted as needing no additional ventilation

### EXTREME 200

Engineered for roofs as low as 12.5 degrees

### SEC 400

Roof drainage and sound reduction for standing seam metal roofs

Extra strength

Superior breathable membrane

Low pitched solution

Roof drainage for standing seam metal roofs

145g

160g

200g

400g

49

50

51

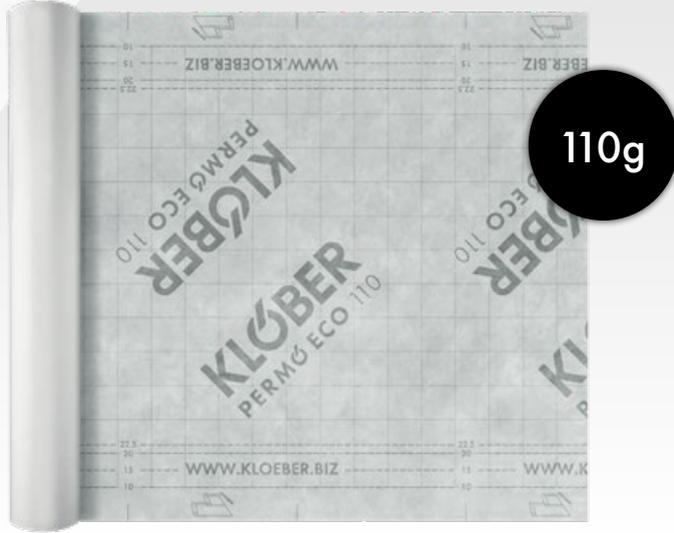
52



All Klober Membranes are fully recyclable

# ECO 110

Klober's value everyday membrane for budget-conscious projects.



### Key features

- Good value membrane for price-conscious projects.
- A breathable three-layer membrane for everyday use.
- The fleece layer is made of up to 30% recycled material.
- 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 p34.
- Permo Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.

Product code	Width m	Length m	Weight g/m <sup>2</sup>	Pallet quantity
KU0039-2	1.1	50	110	35
KU0039-2-15	1.5	50	110	30



# ULTRA 120

Mid-weight breather membrane for affordable quality.



### Key features

- Great quality membrane that offers quality and value for everyday use.
- Three-layer membrane with breathable central layer to manage and reduce the build-up of condensation.
- Low resistance membrane for both supported and unsupported roofs.
- The fleece layer is made of up to 30% recycled material.

### 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 p34.
- Permo Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.

Product code	Width m	Length m	Weight g/m <sup>2</sup>	Pallet quantity
KU0041-1	1	50	120	30
KU0041-1-15	1.5			

# ULTRA 145

High quality everyday breather membrane with additional strength.



## Key features

- A high performing, quality everyday membrane with additional strength.
- Three-layer membrane with breathable central layer to manage and reduce the build-up of condensation.
- Low resistance membrane for both supported and unsupported roofs.
- The fleece layer is made of up to 30% recycled material.

## Area of application

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

## Related products

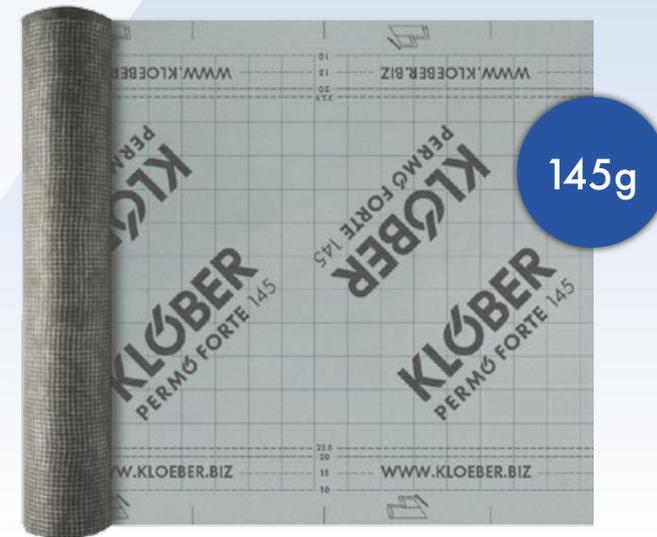
- Underlay Support Tray KP973910 p34.
- Permo Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.

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



# FORTE 145

A four-layer membrane with built-in grid for additional strength and safety.



## Key features

- Our grid-reinforced four-layer breathable underlay is ideal for heavy rain areas with its high mechanical properties and long durability.
- The fleece layer is made of up to 30% recycled material.
- 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 p34.
- Permo Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.

Product code	Width m	Length m	Weight g/m <sup>2</sup>	Pallet quantity
KU0044-07-05-1	1.1	50	145	20
KU0044-07-1	1.5			



# AIR 160

Our superior breathable air open membrane.



## Key features

- Klober's most breathable air-open, vapour permeable roof membrane.
- Reduces the risk of condensation and particularly effective at assisting during the drying out period of new build.
- BBA approved and NHBC recognised as not requiring any additional 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

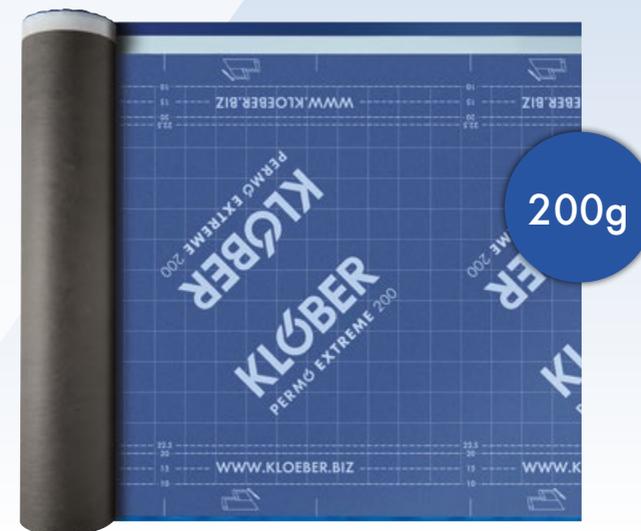
- Underlay Support Tray KP973910 p34.
- Permo Tape KU0121-1 p56.
- Tacto tape KU0111 p56.

Product code	Width m	Length m	Weight g/m <sup>2</sup>	Pallet quantity
KU0045-1	1	50	160	20
KU0045-15	1.5			



# EXTREME 200

Strong and time-efficient solution for low pitched roofs.



## Key features

- Offers design flexibility and ease of installation 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.
- The most cost effective solution for low pitched roofs.
- TPU coating and integral self adhesive headlap tape ensures greater durability for a water and airtight 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

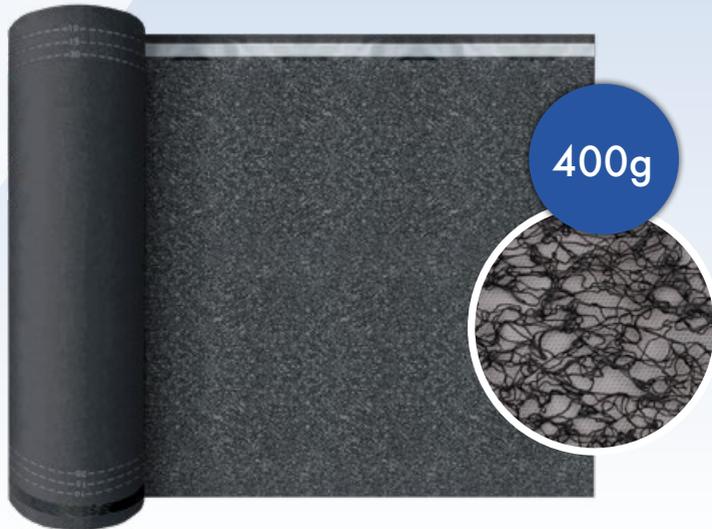
- Underlay Support Tray KP973910 p34.
- Butylon Tape KU0104 p56.
- Over Fascia Vent KP964300 / KP965200 p39.
- Roll Out Rafter Tray, all sizes p35.

Product code	Width m	Length m	Weightg/m <sup>2</sup>	Pallet quantity
KU0170-1-11	1.5	50	200	20
KU0170-1-11-25		25		30



# SEC 400

Roof drainage and sound reduction for standing seam metal roofs.



### Key features

- A 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.
- Prevents condensation that occurs on the underside of the metal roof covering from re-entering the roof structure. reducing the risk of white metal rust.
- Acoustic value of 8db to help reduce the transmission of external sounds, such as heavy rain.
- Fitted with integral headlap tape to create a strong, watertight and airtight seal.

### 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 p56.
- Tacto Tape KU0111 p56.
- Butylon Tape KU0104 p56.

Product code	Width m	Length m	Weight g/m <sup>2</sup>	Pallet quantity
KU0020-11	1.5	25	400	6

# Sepa Light

A membrane often recommended for use with fibre cement slates.



### Key features

- Alternative to traditional 1F felt.
- 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

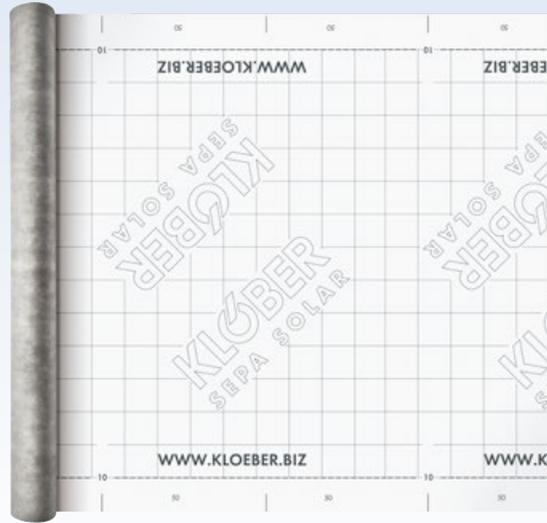
- Ideal solution for cold roofs where ventilation already exists.
- Wind zones 1-2 with battened headlap.
- All wind zones with taped headlap.

### Related products

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

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

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

Product code	Width m	Length m	Weight g/m <sup>2</sup>	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 p56.
- Tacto Tape KU0111 p56.



Product code	Width m	Length m	Weight g/m <sup>2</sup>	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 p57.
- Permo Tape KU0121-1 p56.
- Tacto Tape KU0111 p56.
- Underlay Sealing Collar KE8090/KE8091 p58.

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

## Butylon Tape

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



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

## Permo Tape

Permo Tape is 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

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



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

### 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

- Klobler Membranes range p46-55.

### 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

- Klobler Membranes range p46-55.

### 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

- Klobler Membranes range p46-55.

## Sealing Collars

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

### Key features

- Easy to install.
- Ideal for solar thermal and general pipework.

### Area of application

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



Underlay Sealing Collar

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

- 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 plasterboard.

### Area of application

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

### Related products

- Klobler 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 the perfect finish for every roof 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.
- ✓ Highest quality materials used giving UV stability, strength and longevity.
- ✓ Maintenance free without the need to take regular care of cracking mortar applications.



SCAN CODE TO WATCH

## 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](https://klober.co.uk/video)



50K+ VIEWS in 1 year



### Uni-Click



Strong, quality 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



Thin, sleek continuous line

Page 65

Available colours:





Klober's most established verge system, offering a robust handed verge, available for both left & right hand applications.

**Key features**

- Premium raw material, ensuring the best-in-class product.
- Handed product gives a superior design finish with a traditional verge line.
- Four colours to choose from including black, brown, slate grey and terracotta.
- 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	
KR9765-0152	 Left Dry Verge	148	403	56	Terracotta	50 <small>(Changing to 40 per box, late 2023)</small>	
KR9765-0247					Brown		
KR9765-0429					Slate Grey		
KR9765-0450					Black		
KR9770-0152	 Right Dry Verge	148	403	56	Terracotta		
KR9770-0247					Brown		
KR9770-0429					Slate Grey		
KR9770-0450					Black		
KR973330-1	 Eave and Ridge Pack	148	403	56	Grey		2 x Eave Closers and 2 x Ridge (20 packs)
KR973334-1					Terracotta		
KR973336-1					Brown		
KR973376-1					Black		



Our Ambi-Click Verge allows both left and right hand installation for added convenience.

**Key features**

- Universal verge for both left and right hand applications, meaning only one SKU.
- Design makes installation quick and easy.
- 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	 Ambi-Click Dry Verge	180	401	47	Grey	40
KR9780-5-0247					Brown	
KR9780-5-0450					Black	
KR9781-5-0429	 Eave and Ridge Pack	148	403	56	Grey	2 x Eave Closers and 2 x Ridge (20 packs)
KR9781-5-0247					Brown	
KR9781-5-0450					Black	

Thin Leading Edge



A dry verge system developed to create a sleek finish for thin leading edge tiles.

**Key features**

- Designed specifically for thin leading edge roof tiles.
- Thin, sleek design offers improved modern aesthetics.
- 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.

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	
KR9786-5-0247					Black	
KR9787-5-0429	 Right Dry Verge				Grey	
KR9787-5-0247					Brown	
KR9787-5-0450					Black	
KR9788-5-0429	 Eave and Ridge Pack				Grey	2 x Eave Closers and 2 x Ridge (20 packs)
KR9788-5-0247					Brown	
KR9788-5-0450					Black	

Continuous



A continuous verge for a contemporary, discreet finish to the roofline - available for Tiles and Slates.

**Key features**

- Gives a seamless and clean continuous design.
- Favoured for new build, giving houses a contemporary finish.
- Available in four colours, including black, white, grey, brown.
- Secure mechanical fixing, which complies with BS 8612 and BS 5534.

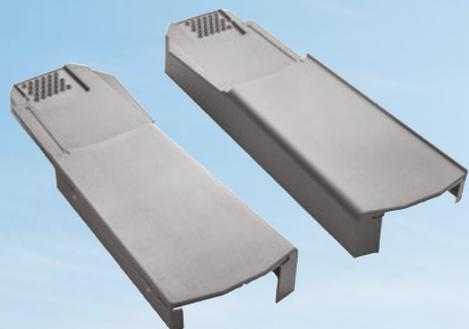
**Area of application**

- 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 m	Height mm	Colour	Pack quantity
KR980376	T Strip	136	5	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	5	63	Black	4
KR980580	Connector to S Strip				Black	2
KR980676	Scot Strip	80	5	45	Black	4

Contract Dry Verge



Cost-effective, mortar free dry verge system.

**Key features**

- Cost-effective handed solution.
- Available in two colours only.
- 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	Right Dry Verge				Brown	
KR9790-0429					Grey	
KR973330-1	Eave and Ridge Pack				Grey	2 x Eave Closers and 2 x Ridge (20 packs)
KR973336-1					Brown	

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
KR977234		Terracotta	
KR977236		Brown	
KR977237		Black	
KR977277		White	
KR977330	 Universal Angle Ridge End Cap	Grey	
KR977334		Terracotta	
KR977336		Brown	
KR977376		Black	
KR977377		White	

Batten End Clips

The Batten End Clip is a method of fixing the dry verge unit to the batten end ensuring compliance with BS 5534 for mechanical fixing.



Product code	Description	Box quantity
KR977100	Batten End Clips	500

# Valleys and Dry Valleys

Klober's range of valleys are cost-effective, robust and lightweight. A Valley is a means of channelling water from the roof into the gutter.



- ✓ 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.
- ✓ Produces no chemical run-off that could damage the environment.

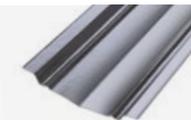
**Bonding Strips, also known as Bonding Gutters**, are an excellent way of providing a watertight junction above the party wall between different roof finishes. **p70**

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

## Valleys & Dry Valleys

### GRP Valleys

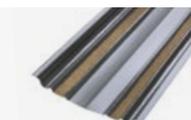
Heritage Dry Valley



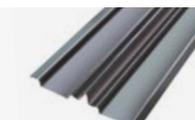
Slate Valley Trough



Under Batten Valley



Tile Valley Trough



Dry Valley Trough

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

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

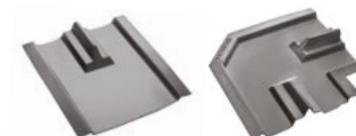


Product code	Description	Width mm	Length m	Height mm	Colour	Pack quantity
KR966200	Heritage Dry Valley	280	3	25	Grey	10
KR965210	Tile Valley Trough	360				
KR965610	Slate Valley Trough	330				
KR966000	Slate Dry Valley Trough	400		70		
KR966100	Tile Dry Valley Trough			110		
KR966080	Under Batten Dry Valley for slate, flat and plain tiles*	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

- Provides 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 qty.
KR9660-1-0070	Single	70	Grey	10
KR9660-2-0070	Double			
KR9661-1-0110	Single	110		
KR9661-2-0110	Double			

## Bonding Strips

3m Bonding Strip

3m Dry Bonding Strip

3m 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.
- Color: Grey
- Pack quantity: 10



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

\*Under Batten Valley not covered by BBA

## 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.
- 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 m	Colour	Pack quantity
KR972000	PVC	97	3	Black	5
KR972010	GRP	140	3	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

# 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 and a healthy flow of air to the apex of 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 mold 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 5,000mm<sup>2</sup>/M of ventilation.



## HOW TO INSTALL

Learn how to install Klobber's **Roll Fix Dry Ridge System** Part of our Installation video series at: [klobber.co.uk/video](https://klobber.co.uk/video)



SCAN CODE TO WATCH

## How to choose a Kit

There are many options available and generally the difference in price and performance will be related to the type of ridge roll that is in the kit.

Klobber offers two kits, our brand leading **Roll Fix Kits (p78)** and our everyday **Klobber Dry Ridge Kits (p76)**.

There are 2 main components you need to focus on: the roll itself and the ridge seal.

## Ridge Rolls

A ridge roll consists of a central fleece with aluminium side strips and butyl adhesive. The quality can differ greatly affecting longevity and performance. When judging the quality of a kit this is where you should focus.

## Ridge seals with fixed lugs

Allows the ridge seal to be supported above the ridge tile, as well as below, for an easier installation. Fixed lugs means easier installation.

## Ridge seals without lugs

Allow for the seal to be fixed under the ridge tile for a universal application.



# Klober Dry Ridge Kit

Klober's Dry Ridge Kit provides a cost effective solution and is best in class within its price range. Available in 6m with and without lugs, and 10m with lugs.

### Best For

Best when cost effectiveness is key. The ridge roll has perforated central holes to allow air and moisture to pass freely, creating a healthy flow of air. The metal strips give suitable stretchability for the everyday job.

### Key Features

- ✓ **The roll is of good quality, and a high performer within its price range.**
- ✓ **The kit provides everything you need to complete the job.**
- ✓ **Complies with: BS8612 for performance, BS5250 for ventilation and BS5534 for mechanical fixing ensuring building regulations are met.**



### A kit consists of

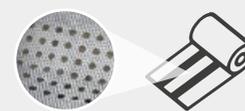
- Ridge roll
- Ridge seals
- Screws and washers
- Clamping plates
- Ridge batten straps

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

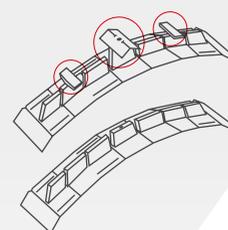
	<b>Dry Ridge Kit WITH LUGS</b>	Best for Concrete	10m	● Black
			6m	
	<b>Dry Ridge Kit WITHOUT LUGS</b>	Clay & Concrete	6m	

## Klober Dry Ridge Kit

Perforated



Choose ridge seals with or without lugs



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

### Key features

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

### Area of application

- Suits most clay and concrete ridge tiles.
- Can be used on 300mm clay ridge tiles, with the clay conversion kit (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
KR5200-6	Conversion Kit for Clay Ridge*	
KR0200-51	Ridge Seal replacement (Without Lugs)	
KR0200	Ridge Seal replacement (With Lugs)	

# Roll Fix

Roll Fix is Klober's most complete offering with its superior ridge roll. Ranked No 1 by roofers for performance and quality.



## Best For

The highest quality job. Great for deep profiled tiles due to the flexibility and depth of the aluminium strips.

## Key Features

- ✓ High quality fleece ridge roll, provides ventilation with ultimate protection against wet weather conditions.
- ✓ Highest quality butyl performance giving improved and secure adhesion.
- ✓ The stretch and dimensions of the aluminium strips gives an extra flexibility when working with deep profiled tiles making it easier to fit.
- ✓ The colour choice means it blends with any roof tile providing a discreet solution.



**Complies with:**  
BS 8612 for both high and low profile tiles. BS 5250 for ventilation and BS 5534 for mechanical fixing ensuring building regulations are met.

Product	Application	Length	Colour	Page
Roll Fix Universal Kit	Clay & Concrete	5m	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Red</li> <li><span style="color: brown;">●</span> Brown</li> <li><span style="color: black;">●</span> Anthracite</li> </ul>	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



★ Advanced butyl technology

↗ Superior Stretch



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

### Key features

- Mortar free, making it quick to install.
- 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.

### 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		

## Roll Fix Concrete Kit

Breathable fleece



Concrete Seal with Lugs



★ Advanced butyl technology

↗ Superior Stretch



A universal ventilating dry ridge 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.
- Complies with BS 8612 for performance, 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	

## Roll Fix Hip Kit

Breathable fleece



Concrete Seal with Lugs  
+ Clay Conversion Option



★ Advanced butyl technology

↗ Superior Stretch



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

### 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 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		

## Roll Fix Clay Half Round Ridge Kit

Breathable fleece



Half Round Ridge Seals



★ Advanced butyl technology

↗ Superior Stretch



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.
- 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 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	

## 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
KP973120	Hip Support Tray		1200		10 x Trays
KP973175	Hip Support Tray		1750		15 x Trays

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		

# Lead Alternatives

Lead Alternatives .....	86
Wakaflex .....	89
Easyform .....	91
Accessories .....	92

# What are Lead Alternatives?

Lead Alternatives is a flashing used to prevent water from penetrating the building structure at vulnerable joints and intersections.

Lead alternatives solutions can easily be cut with knives and are quick and simple to install, either by hand or with a Flashing Roller (p92).

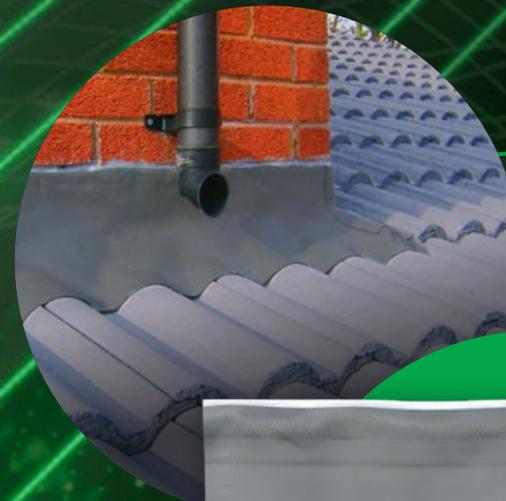


## Suitable for:

- ✓ A replacement for lead.
- ✓ Used with brickwork, tiles, concrete, slate, metals and polycarbonate sheet roofing.
- ✓ Detailing around bay or dormer windows and canopies, chimneys, abutments and saddle details.
- ✓ Sealing solar panels and roof windows.

## HOW TO INSTALL

Learn how to install Wakaflex lead free flashing. Part of our Installation video series at: [klober.co.uk/video](https://klober.co.uk/video)



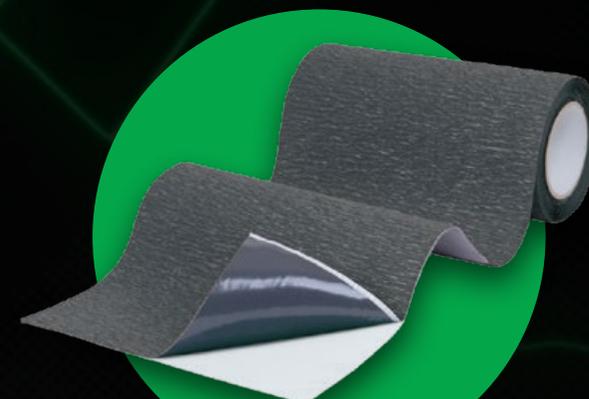
Wakaflex

## The Range

Depending on the requirements, you need to decide which type of flashing best suits the job. There are variations in quality, material and manufacturing process. Klober has 2 options:

**Wakaflex p89**

**EasyForm p91**



EasyForm

# 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

## Wakaflex



Wakaflex is a market leading, BBA approved roof flashing made from aluminium diamond shaped mesh embedded into UV resistant PIB (Polyisobutylene) with butyl strips to help prevent wind-uplift and release foil to protect the product prior to use.

### Best for

When aesthetics is important for areas of the roof visible to the eye, including rising structures and any complex shapes such as profiled tiles and corner junctions. It also makes it a strong favourite for conservatories for its smart finish. Its strength and durability make it suitable for areas that experience heavy weather conditions.

### Key features

- High stretchability of up to 50% length x 15% width for easier detailing.
- The smooth surface makes it less likely to retain dirt particles.
- It is very robust and less likely to tear which makes it stand out from other brands.
- BRE wind test approved up to 115mph.
- Can be used to form a valley.
- Made from recyclable material.

### Key Benefits

- Integrated layer with aluminium diamond shaped mesh embedded into UV resistant PIB (Polyisobutylene) Layer resulting in less degradation over time in comparison to other lead alternatives.
- Self welding means no need for much of an overlap (only 50mm) so is more cost effective and easier to use on longer runs without a need for a standing seam.

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	5	9	Anthracite	2
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

KLOBER.CO.UK



## Flashing Rolls

### EasyForm



EasyForm is a three-layer light roof flashing solution which offers value for money. It is a colour coated and creped aluminium composite with overall butyl backing with a release foil.

#### Best for

Everyday solution for roof detailing. It can be for patching up a roof, sealing a joint and it is good to use when the area is more complex than a straight run. It can be used for pitched roof applications such as saddles and chimneys.

#### Key features

- Made of creped aluminium composite butyl backed layer and release foil.
- 60% stretchability.
- Butyl backed layers create strong adhesion.

#### Key Benefits

- Full butyl layer makes it easy install and it will not suffer wind uplift.
- Light in weight making it an easy option on any roof.
- Multi-purpose in use and can be used for patching up around a roof, sealing a joint or more complex jobs.
- Easy to work with and cost effective.

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	3.69	Anthracite	2
KW0450-05-0470				Zinc Grey	
KW0600-05-0469	600		4.5	Anthracite	

## 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

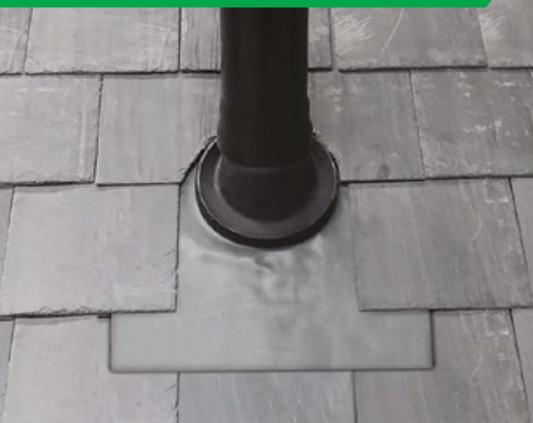
- Lead free flashings.

### Related products

- Wakaflex, all sizes p89.
- EasyForm, all sizes p91.
- Wakaflex Uni Outlet PWFUO560GR p92.

Product code	Width mm	Box quantity
PACCRO	35	12

## 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 PACCGL p93.
- Flashing Roller PACCRO p92.

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

## 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, all sizes

### Related products

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

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 Klobber'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 p89.
- EasyForm, all sizes p91.

Product code	Size ml	Colour	Box quantity
PACCSE	310	Transparent	20

# 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 requirement, from rainwater and ventilation outlets to cable outlets and mechanical extraction solutions.



## Ventilation Outlets p101

Designed to create additional air circulation above the insulation layer to remove moisture and condensation on the underside of the waterproof layer in cold flat roofs. Klobber's Ventilation Outlets are a great solution for drying out flat roofs after renovation to prevent mould, rot and surface blisters.



## Cable Outlets p100

Our cable outlets are designed to thread cables through flat roofs for solar panels and outdoor lighting, whilst providing a sealed penetration and weather-tight seal.



## Draining Outlets p98

Our range of drainage outlets are available with bitumen skirts or PVC flanges and provide optimum water drainage. Rainwater grills prevent pipe blockages from leaves and other debris.



## Mechanical Vent Outlets p103

Our mechanical ventilation outlets offer an optimised air flow solution for mechanical and static ventilation, available as single or double piece kits. They're suitable for ventilating living spaces, such as bathrooms, kitchens as well as soil pipes for thermally insulated roofs.

## 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 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 perfect waterproof connection of PVC membranes and liquid plastics.

### Key features

- 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 p98.
- Insulation Package Pipe Extension KF6836, p104.
- PVC Adhesive Tangit KF6828 p105.

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

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

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 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 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 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 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**

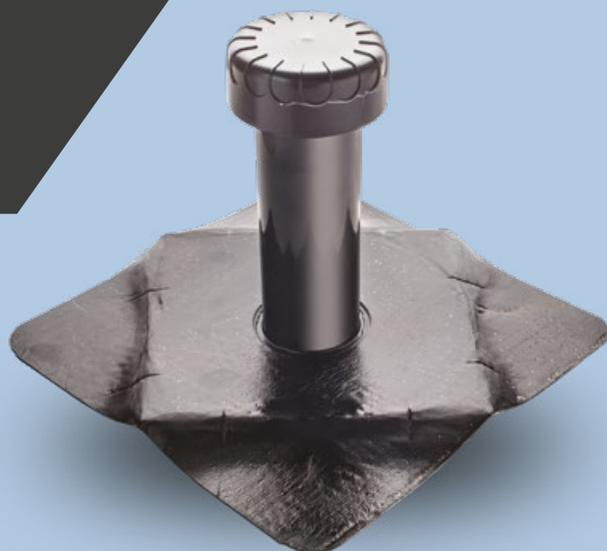
- As a renovation vent: for safe repair to old or damaged vents.
- For drying out roofs after construction or renovation.

**Related products**

- Upper Pipe Extension KF6806, all sizes 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	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 and a mechanical extraction solution for 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 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 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 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

- 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 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 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 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

**Ventilation - Vents**

In Line Double Roman Tile Vents	14
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
Large Slate Vents	25
Clay Tile Vents	26
Uni-Plain Tile Vents	27
Adaptors and Flexipipes	28-29
Solar Outlet	30
Duo Solar Outlet Kit	30
Snow Guard System	31

**Ventilation - Eaves**

Loft Vent Tray	34
Underlay Support Tray	34
Rafter Tray	35
Roll Out Rafter Tray	35
Eaves Comb Filler	36
3-in-1 Eaves Vent Pack	37
Vented Eaves Protector	38
Eaves Closer	38
Over Fascia Vent	39
Circular Soffit Vent	39

**Membranes**

Eco 110	46
Ultra 120	47
Ultra 145	48
Forte 145	49
Air 160	50
Extreme 200	51
Sec 400	52
Sepa Light	53
Sepa Solar	54
Permo Frame	55
Wallint 50	55
Butylon tape	56
Permo tape	56
Tacto tape	56
Underlay Sealing Collar	57
Pipe Sealing Collar	57
Pasto sealant	57

**Dry Verge and Valleys**

Uni-Click	62
Ambi-Click	63
Thin Leading Edge	64
Continuous	65
Contract Dry Verge	66
End Caps	67
Batten End Clips	67
GRP and Dry Valleys	69
Dry Valley Closer	69
Bonding Strips	70
Secret Gutter	71
Bird Deterrent	71

**Ridge and Hip**

Klober Dry Ridge Kit	77
Roll Fix Universal Kit	79
Roll Fix Concrete Kit	80
Roll Fix Hip Kit	81
Roll Fix Clay Half Round Ridge Kit	82
Fixings and Replacement Accessories	83

**Lead Alternatives**

Wakaflex	89
EasyForm	91
Flashing roller	92
Wakaflex uni outlet	92
Flashing glue	93
Flashing sealant	93

**Flat Roofing**

Flavent Rainwater Outlet Grill	98
Flavent Rainwater Outlet Vent Base with PVC Flange	98
Flavent Rainwater Outlet Vent Base with Bitumen Skirt	99
Flavent Rainwater Parapet Outlet	99
Flavent Cable Outlet Kit	100
Flavent Ventilation Outlet	101
Flavent Vent Pipe	103
Flavent Insulation Package Pipe Extension	104
Flavent Upper Pipe Extension	104
PVC Adhesive Tangit	105
Replacement Outlet Caps	105

# 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*
<b>BMI Redland</b>	Clay Plain Tiles	Clay	Clay Plain Tile Vent	KG4321-3	26	✓
	Delta	Concrete	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 Vents	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			
<b>Forticrete</b>	Centurion	Concrete	Single Pantile Tile Vent	KG9860	15	
	Gemini		Twin Plain Tile Vents	KG9861	17	
	Mini Slate		Twin Plain Tile Vents	KG9861	17	
	V2		15x9 Tile Vent	KG9690	16	
<b>Etex</b>	Birkdale	Fibre Cement	Uni line slate vent	KG9630	23	
	Garsdale(Thrutone textured)		Uni line slate vent	KG9630	23	
	Rivendale		Uni line slate vent	KG9630	23	
	Thrutone		Uni line slate vent	KG9630	23	

\* Klobber 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.  
 Uni plain tile vent may be used for clay plain tiles depending on the camber. Single camber products are better suited to the clay plain tile vent.

MANUFACTURER TILES			KLOBER TILE VENTS				
	Tile Profile	Material	Compatibility	Part No.	Page No.	Universal Tile Vents*	
<b>Marley</b>	Clay Plain Tiles	Clay	Clay Plain Tile Vent	KG4321-3	26	✓	
	Anglia	Concrete	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		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	✓	
	<b>Wienerberger (Sandtoft)</b>		Clay Plain Tile	Clay	Clay Plain Tile Vent	KG4321-3	26
Cassuis			Clay	-			✓
Rivius		Clay	-			✓	
Calderdale		Concrete	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			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	✓	
Britslate			Resin Slate	Uni line slate vent	KG9630	23	

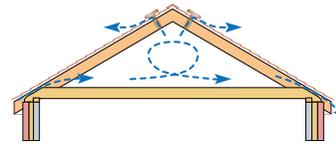
\* Klobber Universal Tile Vents: Uni-Line Tile Vent KG9853, Universal Tile Vent KG9854 & Universal 20k Tile Vent KG9854-20  
 Tiles and batten will need to be cut when using universal vents with clay and concrete plain tiles. Uni- Line Tile Vent KG9853 not suitable for plain tiles.  
 Uni plain tile vent may be used for clay plain tiles depending on the camber. Single camber products are better suited to the clay plain tile vent.

MANUFACTURER TILES			KLOBER TILE VENTS			
	Tile Profile	Material	Compatibility	Part No.	Page No.	Universal Tile Vents*
<b>Mannok</b>	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	✓
<b>Breedon</b>	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		-			✓
<b>Russell</b>	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	✓		
<b>Slates</b>	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	
<b>Northstone</b>	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	✓

\* Klobber 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.  
 Uni plain tile vent may be used for clay plain tiles depending on the camber. Single camber products are better suited to the clay plain tile vent.

## Recommended Ventilation Requirements

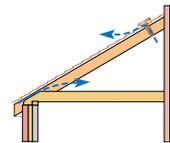
### Duo Pitch Roof over 15°



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.

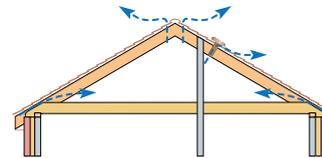
For roof pitches below 15° the low-level ventilation should be increased to the equivalent of a 25mm ventilation opening.

### Flat Roof with Cold Deck



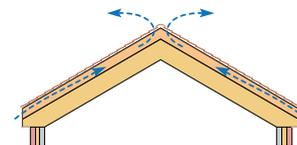
The equivalent of a continuous 25mm ventilation opening on opposite sides.

### 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](http://klobber.co.uk)



**Sales Team: 01332 813050**

**Technical Team: 0330 678 0088**



**info@klober.co.uk**



**KLOBER.CO.UK**



# KLOBER

**LIABILITY:** All descriptions of the goods in brochures, sales materials and the like are merely indicative of the nature of the goods. We reserve the right to alter the appearance or functionality of the materials or components of the goods provided at any time. Any advice or suggestions made by us or on our behalf whether in brochures, technical literature or in response to a specific query as to the usability or suitability of the goods for a specific purpose is given in good faith on a goodwill basis only and on the basis of any information supplied by you. However, it remains your ultimate responsibility to ensure (by trial use or processing if necessary) that the goods will be suitable in all respects. (For a full copy of Klober Ltd Terms and Conditions, please contact the Sales Office.)

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

Klober, Unit 6F, East Midlands Distribution Centre  
Short Lane, Castle Donington, Derbyshire, DE74 2HA. UK

