



YOUR GUIDE TO

# Roofing Ventilation

Klober is the **UK's leading supplier** of roofing ventilation products.

Klober is part of the BMI Group, **the largest manufacturer of flat and pitched roofing and waterproofing solutions in Europe.**

We operate in a number of countries and are specialists in providing universal solutions. You can rely on us when it comes to quality, availability and choice and will find our products in merchants throughout the UK.

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



# Your guide to Roofing Ventilation



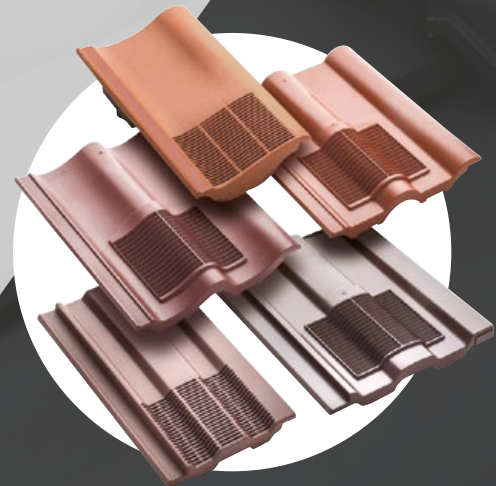
## Contents

Why Choose Klober Tile Vents	04
About Ventilation	06
British Standards	08
Installation Tips	09
Recommended Ventilation Requirements	10
Finding The Right Tile Vent	12
Colour Matching Service	22
<b>Vents</b>	
In Line Tile Vents	15
Universal Tile Vents	20
Traditional Tile Vents	23
Slate Vents	24
Plain Tile Vents	28
Tile Vent Accessories	30
Solar and Snow Systems	34
<b>Eaves</b>	
Eaves Ventilation	38
Why Choose Klober	42

# Why choose Klober Tile Vents?

**Klober has the largest range of tile vents on the market** to suit all ventilation requirements and roof types.

We've been designing vents since 1964 and produce thousands of tile vents and roof outlets in our manufacturing plants across Europe.



### DESIGNED TO LAST

Made from durable plastic, including high-performing ASA material on 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 22 for details**



### 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.



**Find the right tile vent for your roof with our compatibility chart on pages 12-14**

# About Ventilation

## Why do you need to ventilate a roof space?

The average household can produce up to 14 litres of moisture everyday. This can be built up from everyday activities such as showering, drying clothes inside the home and boiling the kettle. This can result in condensation, which rises from the living air to the roof.

### What is condensation?

Condensation is a change in the state of water, from gas or vapour into liquid. It usually happens when vapour in warm air encounters a cool surface. One of the most common places to see condensation is when it collects on the glass of a cold drink on a hot day. But it also occurs in the built environment. In roofs, warm air and water vapour rise from the living area, and when the vapour comes into contact with the cooler building envelope, it condenses and turns into water droplets.



### The two types of condensation:

**Surface condensation** - This occurs on visible surfaces, such as on a window or wall

**Interstitial condensation** - This occurs inside wall, roof or other building element. It can be extremely problematic because it is completely hidden from view. Like any condensation, it can lead to mould growth and structural damage, but homeowners may have no idea it's there.

### Problems associated with condensation:

- Cause damp and mould
- Lead to building substrate or structural damage
- Reduce air quality
- Negatively impact the health and wellbeing of occupants

### Condensation in roofs

Condensation can occur in any roof, however new houses appear to be most at risk. This is because they are designed for energy efficiency, which is of course, essential. But the increased air tightness and higher levels of insulation mean that excess moisture cannot escape from the building as effectively. Thermal bridging can also lead to condensation.

The challenge is to ensure that a home has adequate ventilation so that moisture can escape effectively, without compromising the property's thermal efficiency.



**Klober's range of ventilation products can help reduce the risk of condensation forming.**

**See pages 15 - 41**



## BS 5250:2021 is the code of practice for management of moisture in buildings.

Approved Document C of the Building Regulations says, in effect, that buildings must be designed so that the structure of the building and the health of the occupants are not affected by moisture, and to do this, follow the guidance of BS 5250.

BS 5250 was last updated in July 2021 and renamed from “Code of practice for control of condensation in buildings” to “Management of moisture in buildings.”

This new title reflects an overall change in how the standard approaches the issues of moisture and condensation in buildings. It now takes a whole-building approach to various forms of moisture, including condensation.

### Types of pitched roofs

When considering the required ventilation, the British Standard recognises two main types of pitched roof construction:



#### Cold roofs

These are roofs where the insulation is installed directly above the ceiling – roof spaces not used for habitation and are traditionally the most common type of pitched roof in the UK.



#### Warm roofs

These are roofs with the insulation built into the roof slope. This can be between, over or under the rafters – these are common in loft conversions and are becoming increasingly popular in 3 story town house properties.



**Hybrid roofs** - these have a combination of habitable and non-habited spaces within the roof. This form of construction is often used in conversions but is less efficient than a standard warm pitched roof, as continuity of insulation is difficult to achieve. Ventilation is also more complicated and must be carefully considered to prevent condensation.

## Installation Tips



- If upgrading your loft insulation, then don't forget to make sure airflow can still pass the insulation by using either a loft vent tray, Rafter tray or roll out rafter tray.
- Tile vents can be used not only to ventilate the roof space but to connect to extraction fans from areas such as bathrooms.
- When installing the 6m Roll Out Rafter Tray make sure it remains castellated so an air gap is maintained.
- When using soffit ventilation ensure a suitable gap is maintained between the fascia board and Roll Out Rafter Tray.
- Remember to check the positioning of any tile vent in relation to insulation and timber rafters.



# Recommended Ventilation Requirements

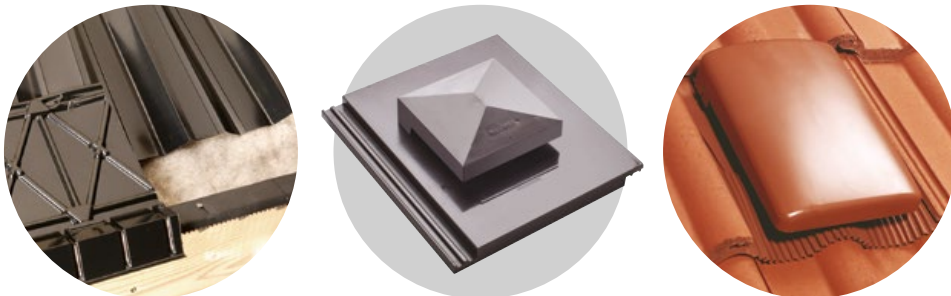
The ventilation requirements detailed opposite are minimum requirements as set out in Building Regulations and BS 5250 for a ventilated roof space.

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

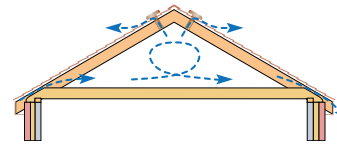
Generally high-level ventilation can be provided by the use of our Roll Fix Dry Ridge systems or vent tiles (page 15-29).



Similarly, low level ventilation can be provided by the use of our range of eaves ventilation products (page 36-41) or vent tiles (page 15-29).



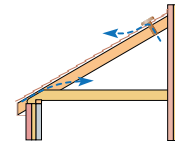
## Duo Pitch Roof over 15°



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.

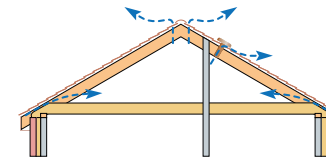
For roof pitches below 15° the low-level ventilation should be increased to the equivalent of a 25mm ventilation opening.

## Flat Roof with Cold Deck



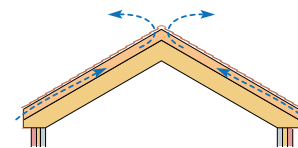
The equivalent of a continuous 25mm ventilation opening on opposite sides.

## 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 [klober.co.uk](http://klober.co.uk)

# 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	28	✓
	Delta	Concrete	Traditional Tile Vent	KG4096-3	23	
	50 Double Roman		Double Roman Tile Vent	KG9857-3	16	✓
	Downland		Uni-Plain Tile Vent	KG9918	29	✓
	Duoplain		Twin Plain Tile Vents	KG9861	19	
	Fenland Pantile		Single Pantile Tile Vent	KG9860	17	
	Grovebury		Double Pantile Tile Vent	KG9858-3	16	✓
	Heathland		Uni-Plain Tile Vent	KG9918	29	✓
	Landmark 10		Thin Line Tile Vent	KG9855-3	19	✓
	Landmark Double Pantile		Double Pantile Tile Vent	KG9858-3	16	✓
	Landmark Double Roman		Double Roman Tile Vent	KG9857-3	16	✓
	Mini Stonewold		Flat Tile Vent	KG9856-3	18	✓
	Mockbond Mini Stonewold		Flat Tile Vent	KG9856-3	18	✓
	Mockbond Richmond 10		Thin Line Tile Vent	KG9855-3	19	✓
	Norfolk Pantile		Single Pantile Tile Vent	KG9860	17	
	Plain Tile		Uni-Plain Tile Vent	KG9918	29	✓
	Redland 49		15x9 Tile Vent	KG9690	18	
	Regent		Traditional Tile Vent	KG6084-3	23	✓
	Renown		Limarech Tile Vent	KG9859-3	17	✓
	Richmond 10		Thin Line Tile Vent	KG9855-3	19	✓
Saxon 10	Thin Line Tile Vent		KG9855-3	19	✓	
Stonewold Mk II	Traditional Tile Vent	KG6083-3	23			
<b>Forticrete</b>	Centurion	Concrete	Single Pantile Tile Vent	KG9860	17	
	Gemini		Twin Plain Tile Vents	KG9861	19	
	Mini Slate		Twin Plain Tile Vents	KG9861	19	
	V2		15x9 Tile Vent	KG9690	18	
<b>Etex</b>	Birkdale	Fibre Cement	Uni line slate vent	KG9630	25	
	Garsdale(Thrutone textured)		Uni line slate vent	KG9630	25	
	Rivendale		Uni line slate vent	KG9630	25	
	Thrutone		Uni line slate vent	KG9630	25	

\* 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	28	✓		
	Anglia	Concrete	Single Pantile Tile Vent	KG9860	17			
	Ashmore		Twin Plain Tile Vents	KG9861	19			
	Bold Roll		Traditional Tile Vent	KG6085-3	23	✓		
	Double Roman		Double Roman Tile Vent	KG9857-3	16	✓		
	Duo Edgemere		Thin Line Tile Vent	KG9855-3	19	✓		
	Duo Modern		Flat Tile Vent	KG9856-3	18	✓		
	Ecologic Ludlow Major		Limarech Tile Vent	KG9859-3	17	✓		
	Edgemere		Thin Line Tile Vent	KG9855-3	19	✓		
	Ludlow Major		Limarech Tile Vent	KG9859-3	17	✓		
	Ludlow Plus		15x9 Tile Vent	KG9690	18			
	Mendip		Double Pantile Tile Vent	KG9858-3	16	✓		
	Modern		Flat Tile Vent	KG9856-3	18	✓		
	Plain Tile		Uni-Plain Tile Vent	KG9918	29	✓		
	Riven Edgemere		Thin Line Tile Vent	KG9855-3	19	✓		
	Wessex		Traditional Tile Vent	KG6092-3	23	✓		
	<b>Wienerberger (Sandtoft)</b>		Clay Plain Tile	Clay	Clay Plain Tile Vent	KG4321-3	28	✓
			Cassuis	Clay	-			✓
Rivius			Clay	-			✓	
Calderdale		Concrete	Flat Tile Vent	KG9856-3	18	✓		
Calderdale Edge			-			✓		
Double Pantile			Double Pantile Tile Vent	KG9858-3	16	✓		
Double Roman			Double Roman Tile Vent	KG9857-3	16	✓		
Dual Calderdale Edge			-			✓		
Dual Calderdale			Flat Tile Vent	KG9856-3	18	✓		
Dual TLE			Thin Line Tile Vent	KG9855-3	19	✓		
Lindum			Limarech Tile Vent	KG9859-3	17	✓		
Plain tile			Uni-Plain Tile Vent	KG9918	29	✓		
Shire Pantile			Single Pantile Tile Vent	KG9860	17			
Standard pattern			15x9 Tile Vent	KG9860	18			
TLE			Thin Line Tile Vent	KG9855-3	19	✓		
Britslate	Resin Slate		Uni line slate vent	KG9630	25			

\* 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	19	✓
	Locherne		Double Pantile Tile Vent	KG9858-3	16	✓
	Rathmore duo		Thin Line Tile Vent	KG9855-3	19	✓
	Rathmore Slate		Thin Line Tile Vent	KG9855-3	19	✓
	Western Slate		Flat Tile Vent	KG9856-3	18	✓
<b>Breedon</b>	Double Roll	Concrete	Double Roman Tile Vent	KG9857-3	16	✓
	Elite		Thin Line Tile Vent	KG9855-3	19	✓
	Flat		Flat Tile Vent	KG9856-3	18	✓
	Square Top		-			✓
<b>Russell</b>	Bute	Concrete	Thin Line Tile Vent	KG9855-3	19	✓
	Cheviot		Limarech Tile Vent	KG9859-3	17	✓
	Double Roman		Double Roman Tile Vent	KG9857-3	16	✓
	Galloway		Thin Line Tile Vent	KG9855-3	19	✓
	Grampian		Flat Tile Vent	KG9856-3	18	✓
	Highland		Flat Tile Vent	KG9856-3	18	✓
	Lothian		Thin Line Tile Vent	KG9855-3	19	✓
	Moray		Thin Line Tile Vent	KG9855-3	19	✓
	Pennine		Double Pantile Tile Vent	KG9858-3	16	✓
	Polden		Thin Line Tile Vent	KG9855-3	19	✓
	Regency		Uni-Plain Tile Vent	KG9918	29	✓
	Traditional Plain		Uni-Plain Tile Vent	KG9918	29	✓
<b>Slates</b>	up to 400 x 250mm	Natural Slate	Mini Uni Line Slate Vent	KG9631	25	
	500mm x 250mm	Fibre Cement Slate	Uni Line slate Vent	KG9630	25	
	500mm x 250mm	Natural Slate	Uni Line slate Vent	KG9630	25	
	600mm x 300mm	Fibre Cement Slate	Uni Line slate Vent	KG9630	25	
	600mm x 300mm	Natural Slate	Uni Line slate vent	KG9630	25	
<b>Northstone</b>	Causeway	Concrete	Thin Line Tile Vent	KG9855-3	19	✓
	Causeway Riven		Thin Line Tile Vent	KG9855-3	19	✓
	Donard		Flat Tile Vent	KG9856-3	18	✓
	Dunluce		Thin Line Tile Vent	KG9855-3	19	✓

\* Klover 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.

## In Line Tile Vents

### In Line Tile Vent Range



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

#### Key features

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

#### Compatible with

- Adaptor and Flexipipe KG979200 p32.
- Adaptor KG979100 p32.
- Flexipipe KG979900 p32.
- Pipe Sealing Collar KU8001 p31.





Double Roman Tile Vents



Area of application

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



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG9857-3-0116	332	418	10,000	Antique Red	10
KG9857-3-0152				Terracotta	
KG9857-3-0247				Brown	
KG9857-3-0429				Slate Grey	

Single Pantile Tile Vents



Area of application

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



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG9860-0116	229	384	10,000	Antique Red	10
KG9860-0152				Terracotta	
KG9860-0247				Brown	
KG9860-0429				Slate Grey	

Double Pantile Tile Vents



Area of application

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



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG9858-3-0116	332	418	10,000	Antique Red	10
KG9858-3-0152				Terracotta	
KG9858-3-0247				Brown	
KG9858-3-0429				Slate Grey	

Limarech Tile Vents



Area of application

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



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG9859-3-0116	332	418	10,000	Antique Red	10
KG9859-3-0152				Terracotta	
KG9859-3-0247				Brown	
KG9859-3-0429				Slate Grey	

Flat Tile Vents



**Area of application**

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



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG9856-3-0116	330	418	10,000	Antique Red	10
KG9856-3-0152				Terracotta	
KG9856-3-0247				Brown	
KG9856-3-0429				Slate Grey	
KG9856-3-0450				Slate Black	

Twin Plain Tile Vents



**Area of application**

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



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG9861-0116	330	273	7,850	Antique Red	10
KG9861-0152				Terracotta	
KG9861-0247				Brown	
KG9861-0429				Slate Grey	

15x9 Tile Vents



**Area of application**

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



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG9690-0116	229	384	10,000	Antique Red	10
KG9690-0152				Terracotta	
KG9690-0247				Brown	
KG9690-0429				Slate Grey	

Thin Line Tile Vents



**Area of application**

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



Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG9855-0450	330	418	10,000	Slate Black	10
KG9855-3-0116				Antique Red	
KG9855-3-0152				Terracotta	
KG9855-3-0247				Brown	
KG9855-3-0429				Slate Grey	

Uni-Line Tile Vents



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



**Key features**

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

**Area of application**

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

**Compatible with**

- Flexipipe KG979900 p32.
- Pipe Sealing Collar KU8001 p31.

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

Universal 20k Tile Vents



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

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

**Key features**

- Ideal solution where high levels of ventilation are required providing 20,000mm<sup>2</sup> ventilation area.
- Universal solution.
- Perfect solution for Heat Recovery Systems with a 150mm adaptor.

**Area of application**

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

**Compatible with**

- Adaptor KG979700 p33.



Universal Tile Vents



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

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

**Key features**

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

**Area of application**

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

**Compatible with**

- Adaptor and Flexipipe KG979800-1 p32.
- Adaptor KG968300-1 / KG979000-1 p33.
- Flexipipe KG979900 / KE8047 p32.
- Pipe Sealing Collar KU8001 p31.



## Colour Matching Service

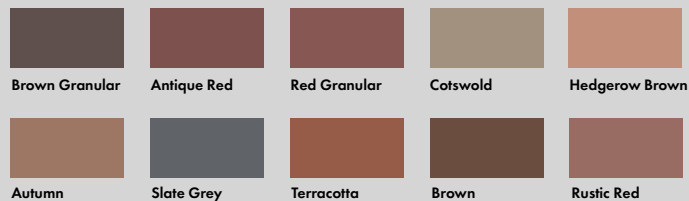
Struggling to find a tile vent that matches your roof colour? Klober offers a colour matching service for all tile vents, so no matter what type of tile vent you need you can be certain it will blend in seamlessly with your roof.

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



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

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



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

## Traditional Tile Vents

### Traditional Tile Vents



Marley Wessex



Redland Regent



Marley Bold Roll



Redland Delta



Redland Stonewold Mark II Profile



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

#### Key features

- Ideal solution where high levels of ventilation are required providing 15,000mm<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 p33.
- Flexipipe KG979900 p32.
- Pipe Sealing Collar KU8001 p31.

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG6083-3-0200	380	430	15,000	Brown	10
KG6083-3-0400				Grey	
KG6092-3-0200	Brown				
KG6084-3-0200	334	420		Brown	
KG6084-3-0400				Grey	
KG6085-3-0200				Brown	
KG4096-3-0200	385	430		Brown	

\* not Redland Delta

Small Slate Vents



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

**Key features**

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

**Area of application**

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

**Compatible with**

- Flexipipe KG972400 p32.
- Pipe Sealing Collar KU8001 p31.

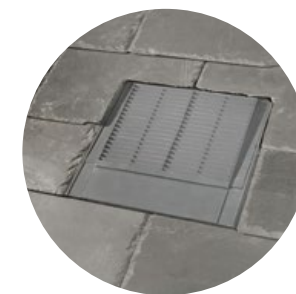
Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG972200	300	600	4,500	Slate Grey (matt finish)	10
KG972276				Slate Black	

Uni-Line Slate Vents



Mini Uni-Line Slate Vent

Uni-Line Slate Vent



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 p32.
- Pipe Sealing Collar KU8001 p31.

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
<b>Uni-Line Slate Vents</b>					
KG9630-0403	380	600	6,500	Dark Slate	10
KG9630-0429				Slate Grey	
<b>Mini Uni-Line Slate Vents</b>					
KG9631-0403	300	450	6,500	Dark Slate	10
KG9631-0429				Slate Grey	

10k Slate Vents



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

**Key features**

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

**Area of application**

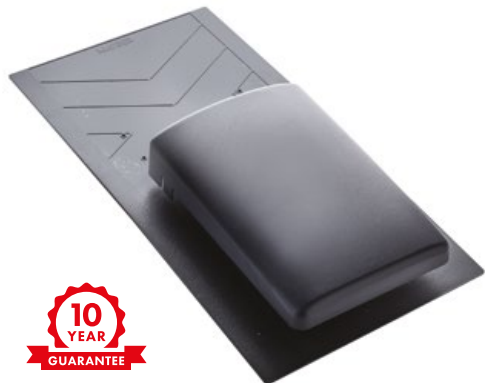
- For roof pitches over 20°.
- Manmade fibre cement or natural slate tiles.
- High and low level ventilation.

**Compatible with**

- Adaptor KG979100 p33.
- Flexipipe KG979900 p32.
- Pipe Sealing Collar KU8001 p31.

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG968900	300	600	10,000	Slate Grey	10

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 Systems with a 150mm adaptor.

**Area of application**

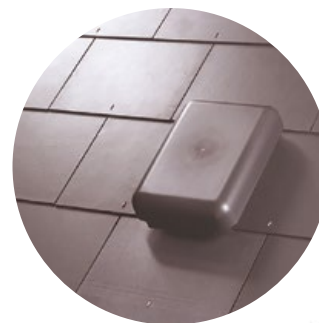
- For roof pitches over 22.5°.
- Manmade fibre cement or natural slate tiles.
- High and low level ventilation.

**Compatible with**

- Adaptor KG979700 p33.

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG9795-0429	380	600	20,000	Slate Grey	10
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 p32.
- Universal Vent Adaptor KG968300-1 / KG979000-1 p33.
- Flexipipe KG979900 / KE8047 p32.
- Pipe Sealing Collar KU8001 p31.

Product code	Width mm	Length mm	Vent area mm <sup>2</sup>	Colour	Box quantity
KG979630-1 (Cap)	380	600	14,000	Slate Grey	20
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 p33.
- Flexipipe KG979900 p32.
- Pipe Sealing Collar KU8001 p31.



Brown



Terracotta



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

Uni-Plain Tile Vents



Discreet ventilating tiles suitable for concrete plain tiles.

**Key features**

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

**Area of application**

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

**Compatible with**

- Adaptor and Flexi Pipe KG992800 p32.
- Adaptor KG990500 p33.
- Flexipipe KG979900 p32.
- Pipe Sealing Collar KU8001 p31.



Hedgerow Brown



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

Spare Universal Tile Vent Cap



Slate Grey



Terracotta



Brown



Antique Red

A replacement cap for Klober Universal Tile Vents.

**Key features**

To be used with Klober Universal Tile Vents.

**Compatible with**

- Universal Tile Vents  
KG985403 / KG985430 /  
KG985434 / KG985436 p21.

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

Pipe Sealing Collar



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

**Key features**

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

**Area of application**

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

**Related Products**

- Permo Tape KU0121-1.

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



Adaptors and Flexipipes

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



Key features

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

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

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

## Solar Outlet

Slate base shown



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

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

### Key features

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

### Area of application

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

## Duo Solar Outlet Kit



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

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

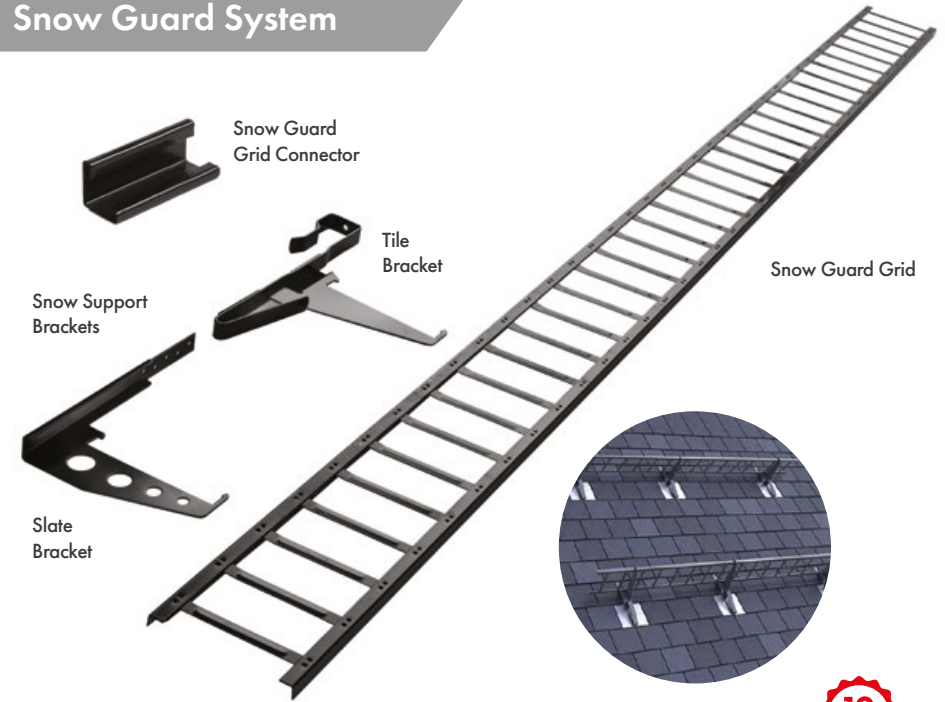
### Key features

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

### Area of application

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

## Snow Guard System



Prevents snow and broken tiles falling from pitched roofs.

### Key features

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

### Area of application

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

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

Loft Vent Tray



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

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

**Key features**

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

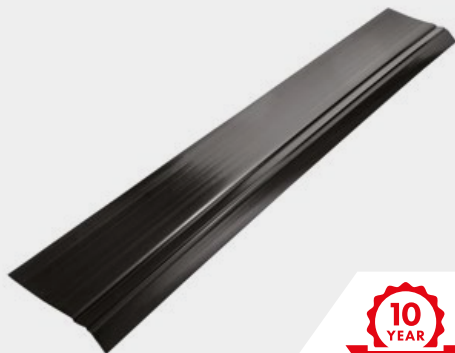
**Area of application**

Suitable for all roofs.

**Related products**

- Vented Eaves Protector KP3005 / KP3006 p40.
- Over Fascia Vent KP964300 / KP965200 p41.
- Underlay Support Tray KP973910 p36.
- Circular Soffit Vent KP9642 p41.

Underlay Support Tray



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

Increases the longevity of the roofing membrane at the eaves.

**Key features**

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

**Area of application**

Suitable for all roofs.

**Related products**

- Over Fascia Vent, all sizes p41.
- Roll Out Rafter Tray, all sizes p37.
- Rafter Tray KP964900 / KP964800 p37.
- Klobber Membranes range

Rafter Tray



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

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

**Key features**

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

**Area of application**

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

**Related products**

- Over Fascia Vent KP965200 p41.
- Circular Soffit Vent KP9642 p41.
- Underlay Support Tray KP973910 p36.
- Vented Eaves Protector KP3005 / KP3006 p40.

Roll Out Rafter Tray



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

A barrier and ventilation path between the insulation and roof.

**Key features**

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

**Area of application**

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

**Related products**

- Vented Eaves Protector KP3005 / KP3006 p40.
- Over Fascia Vent KP964300 / KP965200 p41.
- Underlay Support Tray KP973910 p36.
- Circular Soffit Vent KP9642 p41.

# 3 IN 1 EAVES VENT PACK

EVERYTHING YOU NEED FOR EAVES VENTILATION.



## Eaves Ventilation

### 3 in 1 Eaves Vent Pack



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

#### Key features

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

#### Area of application

450 - 600mm rafter centres.

## Eaves Comb Filler



Prevents birds and larger insects from entering the batten cavity.

#### Key features

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

#### Area of application

Suitable for profile tiles.

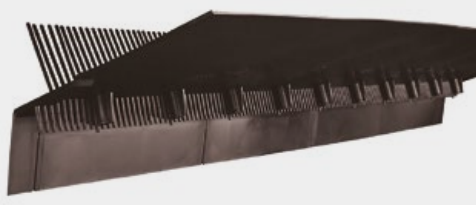
#### Related products

- Over Fascia Vent KP965200 / KP964300 p41.
- Underlay Support Tray KP973910 p36.

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

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

Vented Eaves Protector



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

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

**Key features**

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

**Area of application**

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

**Related products**

- Loft Vent Tray KP965000 p36.
- Roll Out Rafter Tray, all sizes p37.
- Rafter Tray KP964800 / KP964900 p37.

Eaves Closer



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

An eaves perimeter detail for counter batted roof systems.

**Key features**

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

**Area of application**

All counter batted roofs.

**Related products**

Underlay Support Tray KP973910 p36.

Over Fascia Vent



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

Discreet eaves ventilation to the roof void.

**Key features**

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

**Area of application**

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

**Related products**

- Roll Out Rafter Tray, all sizes p37.
- Rafter Tray KP964800 / KP964900 p37.
- Underlay Support Tray KP973910 p36.
- Loft Vent Tray KP965000 p36.

Circular Soffit Vent



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

Provides eaves ventilation through the soffit.

**Key features**

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

**Area of application**

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

**Related products**

- Rafter Tray KP964800 / KP964900 p37.
- Roll Out Rafter Tray, all sizes p37.
- Loft Vent Tray KP965000 p36.

## Why choose Klover?



We pride ourselves on providing a wide variety of **universal roofing solutions**, so you can always count on us to have the right product for the job.



**Quality is at the centre of everything we do**, which is why we rigorously test our products so you have peace of mind that our products do what they say they will.



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

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

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