NON-LEAD FLASHINGS

Product Range Overview

ubbink

Build smart.

Ubbink's non-lead waterproof flashing range provides practical, easy-to-install solutions for applications where lead is traditionally used, such as changes of direction and materials. With no lead, they have no scrap value and are therefore an ideal way to combat the perennial problem of lead theft from roofs.

The widest range of quality non-lead flashings from a single source

Contents

Ubiflex Finio

Ubiflex Standard

Ubiflorm+

Effective roof detailing without the compromises

Ubbink Non-Lead Flashings can be used to replace traditional lead

Ubbink Non-Lead Flashing materials are malleable like lead, allowing them to be formed into an infinite variety of shapes, to form:

- stepped flashings
- abutment flashings
- chimney flashings
- pitched roof valley liners
- dormer window flashings
- rooflight and solar panel flashings

No scrap value means no risk of theft

Fluctuating costs of metal make thefts of lead from buildings more attractive. This has in turn caused increased insurance premiums as well as huge inconvenience during remedial work. Ubbink Non-Lead Flashings have no scrap value and are therefore of no interest to thieves.

Saves time & money

Ubbink flashings are up to 50% quicker to install than lead, reducing time on-site and the associated costs.

Important health and safety advantages

Non-lead materials eliminate potential health risks associated with working in close contact with lead. They are also 80% lighter than lead, giving health and safety advantages as well as reducing structural loads.

A sustainable solution

All Ubbink Non-Lead Flashings are environmentally friendly, non-toxic and recyclable.

BBA Certified

Ubiflex Standard flashings carry BBA certification. For details of certification, see page 14.

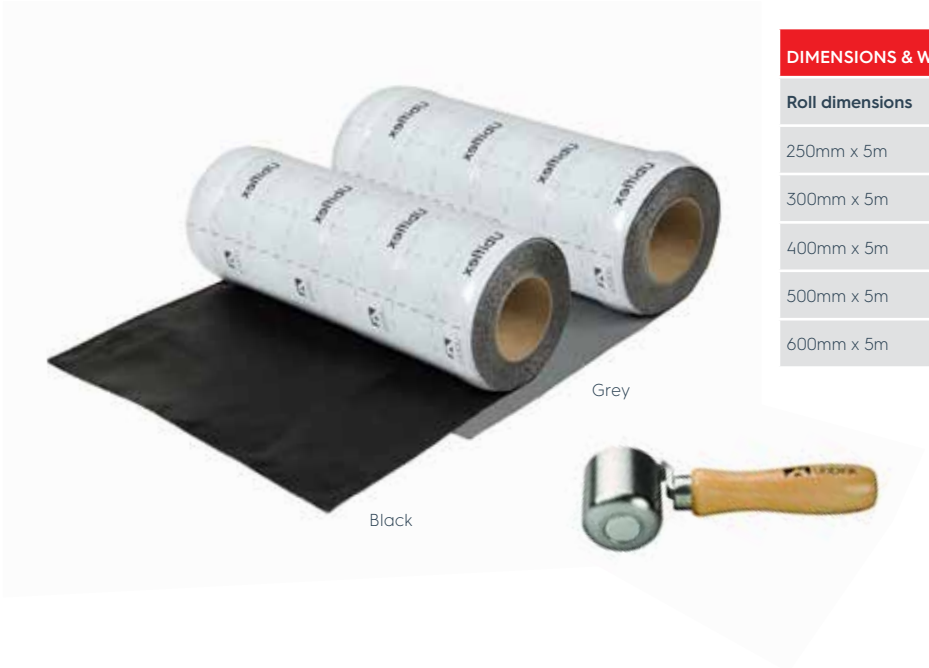
Source: Ubbink Netherlands

Ubiflex Finio
the innovative flashing material with unique double bonding

Ubiflex Finio is:

- A premium quality, high performance non-lead waterproofing solution, suitable for stepped flashings, abutment flashings, chimney flashings, pitched roof valley liners, dormer window flashings, rooflight and solar panel flashings.
- Up to three times quicker than lead to install, with its unique double bonding system
- Non-toxic material
- Easy to install
- Supplied with a fully adhesive reverse side protected with a two-part removable film and two butyl adhesive strips to ensure perfect adhesion
- Waterproof in seconds
- Adherent to almost all surfaces, even when damp
- Consistent at temperatures down to-5°C
- Fully malleable into an infinite variety of shapes, and holds its form when applied to profiled roof surfaces, for excellent aesthetics
- A durable, vulcanising material

PERFORMANCE	
Composition	Polyisobutylene (PIB)
Temperature resistance	-30°C – +140°C
Minimum working temperature	-5°C – +50°C
Corrosion	Resistant to corrosion
Wind stability	Under testing
Guarantee	25 years
Watertightness	EN 1928
UV Resistance	Excellent
Fire Rating	Class E



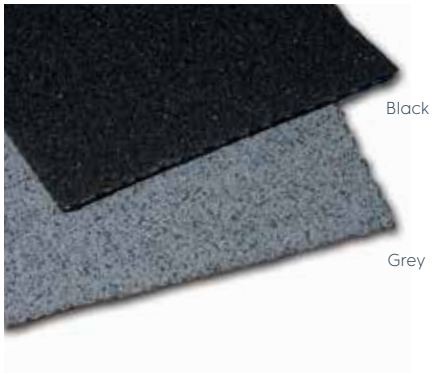
DIMENSIONS & WEIGHTS		
Roll dimensions	**Thickness**	**Weight**
250mm x 5m	1.9mm	3.5kg
300mm x 5m	1.9mm	4.2kg
400mm x 5m	1.9mm	5.6kg
500mm x 5m	1.9mm	7.0kg
600mm x 5m	1.9mm	8.4kg

Ubiflex Standard
the practical, popular solution

Ubiflex Standard is:

- Up to 50% quicker to install than lead, is fully malleable, can be worked in both directions and is self-sealing if punctured.
- Not susceptible to thermal movement. Aprons up to 12m long can be formed without seams or expansion joints - up to 8 times longer than traditional lead sheet. Consequently, there is less wastage with Ubiflex.
- Compatible with most common building materials and components, such as thermal panels, extract flues, ventilators, rooflights and flat roofing membranes including PVC single ply.
- Stable and does not cause any unsightly staining.
- Worked the same way as lead flashing but without the need for protective measures. It can be cut with a sharp knife or snips.
- Available as a system, complete with adhesives, clips and accessories - see page 14.

PERFORMANCE	
Composition	Modified polyethin compound with an aluminium mesh reinforcement
Temperature resistance	-30°C to +90°C
Minimum working temperature	By hand: -10°C With lead dresser: +5°C Use warmed material for improved malleability at low temperatures
Corrosion	Resistant to corrosion
Wind stability	BRE wind tunnel tested to 110mph
Guarantee	25 years



Black

Grey

Ubiflex Standard System Components

Ubiflex Standard is part of a system of compatible products comprising: Non-lead flashing; adhesives & sealants; fixing clips for easy fixing in mortar joints and 'No lead' sign, to reduce theft from site.

DIMENSIONS & WEIGHTS		
Roll dimensions	**Thickness**	**Weight**
150mm x 12m	3mm	7.2kg
150mm x 6m	3mm	3.7kg
200mm x 12m	3mm	9.6kg
200mm x 6m	3mm	4.8kg
250mm x 12m	3mm	12.0kg
250mm x 6m	3mm	5.9kg
300mm x 12m	3mm	14.4kg
300mm x 6m	3mm	7.0kg
400mm x 12m	3mm	19.2kg
400mm x 6m	3mm	9.6kg
450mm x 12m	3mm	21.6kg
500mm x 6m	3mm	12.0kg
600mm x 6m	3mm	14.4kg
1000mm x 6m	3mm	24.0kg

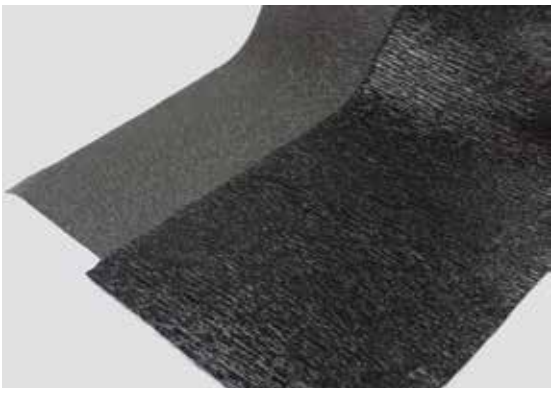
Ubiform+
the cost-effective self-adhesive flashing

Ubiform+ is:

- A practical and cost-effective solution consisting of a full surface self-adhesive profiled aluminium roll.
- A secure and fast alternative to sheet lead flashings, suitable for use in most typical junction points.
- Durable and lightweight, with width elasticity ability up to 60%.
- Simple to use, with optimum adhesion, including overlapping, thanks to a high bond butyl layer.
- Foil reinforced on the reverse.
- UV-stable and weather-resistant.
- Available in grey and black.

PERFORMANCE	
Composition	Self-adhesive stretched aluminium with baked enamel coating foil reinforcement on the reverse with full butyl adhesive layer
Temperature resistance	-30°C to +80°C
Min. working temperature	+5°C
Max. working temperature	+30°C
Watertightness	Watertight

DIMENSIONS & WEIGHTS		
Roll dimensions	**Thickness**	**Weight**
300mm x 5m	1.4mm	2.9kg
450mm x 5m	1.4mm	4.27kg
600mm x 5m	1.4mm	5.7kg



Design Guidelines

NOTE: If using Ubiflex Standard, Ubilfex sealants are required.
This does not apply to Ubiform and Ubiflex Finio as they are self adhesive.

Fixing into a wall or Chimney

Without a DPC

On upstands, parapets, chimneys and walls without a damp proof course (DPC), Ubbink Non-Lead Flashing should be turned into a joint or chase by not less than 30mm (figure 01).

With a DPC

When installing Ubbink Non-Lead Flashing in a joint which includes a pre-fitted DPC, the mortar should be removed to a depth of not less than 30mm below the DPC before the flashing is fitted (figure 02).

If the DPC and flashing are installed at the same time, the flashing should be fitted to a depth of not less than 50mm with the edge turned back into a single welt to anchor it into the mortar (figure 03).

This method is particularly recommended when the height of masonry above the DPC is less than 600mm as there is a risk of the masonry lifting when clipping the flashing.

Larger joints

Ubbink Non-Lead Flashing can also be used in situations where the joint width is large or uneven, for example, in masonry in old or historic buildings. In these instances the flashing should be turned up the back of the chase and mechanically fixed.

Unlike lead, there is no need for a masking tape liner over the flashing when using mortar to fill shallow and wide joints.

figure 01

figure 02

figure 03

Flashing to a flat roof upstand

figure 04
flashing to a flat roof upstand

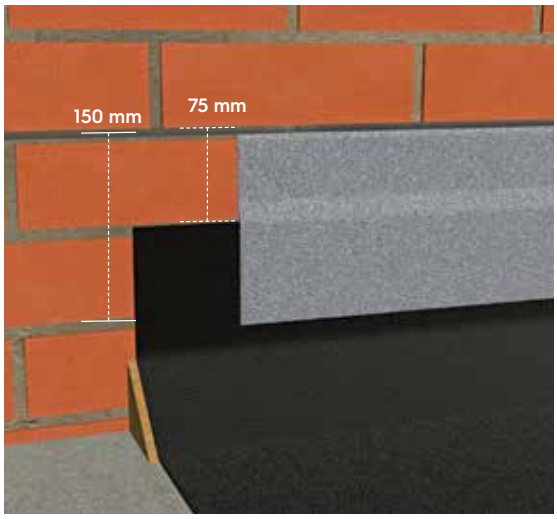
figure 05
flashing to a side abutment - double lap tiles/slates

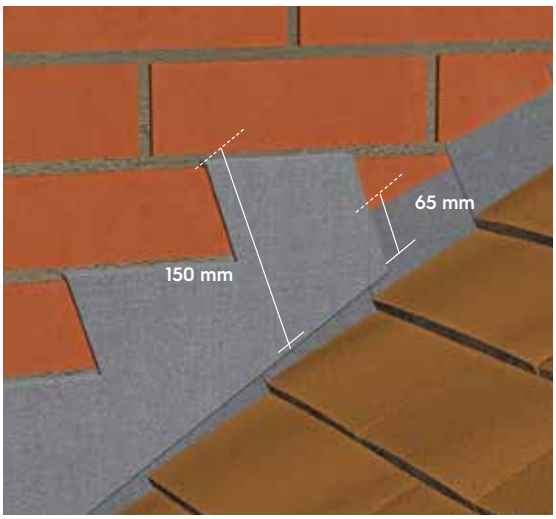
Ubbink Non-Lead Flashing should cover the upstand by at least 75mm. (figure 04).

The height of the upstand should be at least 150mm.

Where double lap tiles or slates abut a wall they should be covered with Ubbink Non-Lead stepped cover flashing (figure 05).

The stepped flashing should be 150mm wide and cover the soakers by not less than 65mm.





Flashing to a wall or chimney

Side abutment – sigle lap tiles

For single lap tiles a continuous Ubbink Non-Lead cover flashing can be used (figure 06). This flashing should go up the wall 150mm (as double lap) and cover the tiles by at least 150mm (200mm for deep profiles or pitches below 25° in exposed areas).

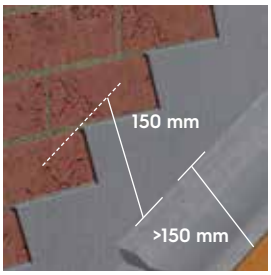


Figure 06: flashing to a side abutment – single lap tiles

Alternatively, single lap tiles can be weatherproofed at abutments by using a cover flashing and a separate stepped flashing (figure 07). As in double lapped tiles, the cover flashing should run 75mm up the wall and the stepped flashing should be 150mm wide and overlap the cover flashing by 65mm.

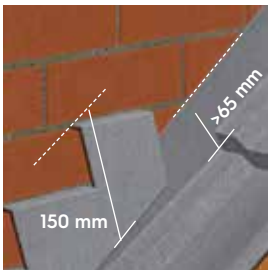
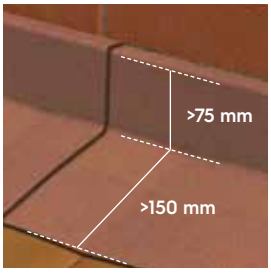


Figure 07: flashing to a side abutment – single lap tiles

Top abutment – over tiles

When flashing a lean-to-roof or chimney in a pitched roof the Ubbink Non-Lead Flashing should be turned up no less than 75mm and extend down the slope at least 150mm (200mm for pitches below 25° or exposed areas) and sealed to the roof covering (see figure 08 and below).

At the junction of chimney and ridge, a separate saddle flashing is required. This flashing should extend down both sides of the roof by no less than 150mm and along the ridge by no less than 150mm. The flashing edge which is beneath the ridge tile should be turned back to form a welted weather check (see also figure 10).



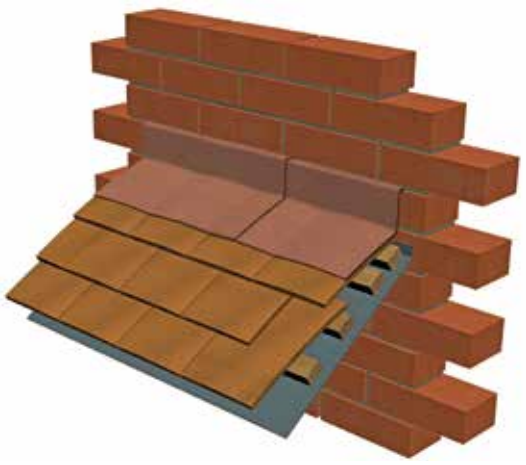


Figure 08: flashing to a top abutment – tiles and slates

Flashing to vertical tile and slate hanging

Ubbink Non-Lead Flashing should be taken behind tiles by not less than 75mm and finished with a single weathercheck welt (figure 9 and inset right).

In slate hanging the flashing extends 100mm behind the slates without the welt.

Alternatively, soakers and a cover flashing can also be used in this instance and should follow the same procedure as shown in figure 05 (see page 09).

At the junction of the tiles/wall/cill, a separate cill flashing is required. This cill flashing extends up the wall at least 75mm and is chased into the brickwork minimum one course above the tiles or slates flashing (figure 10).

Where the window opening appears within the body of the tile hanging, a similar cill flashing is required. This cill flashing turns under the cill and extends past the vertical edge of the window by at least 100mm and up the jamb by at least 100mm from the underside of the cill.

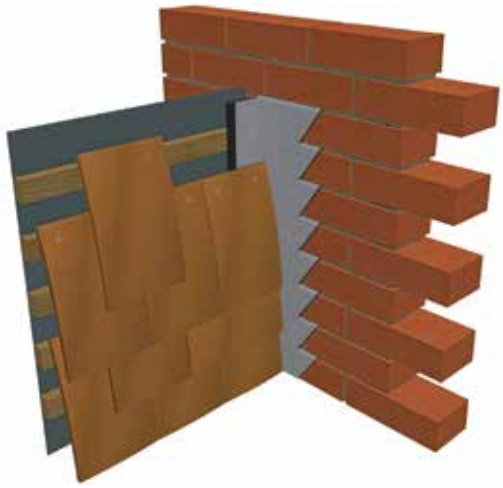


Figure 9: flashing to vertical tile or slate hanging – side abutment

Figure 10: flashing to vertical tile or slate hanging – cills

Flashing to canopies, hoods and carports

Ubbink Non-Lead can be used as a flashing to modern fibreglass, GRP and plastic door/window/patio canopies, door hoods and carports. For canopies and hoods with upstands follow the procedure as shown in figure 11, ensuring the flashing is sealed to the canopy etc. and covers the upstand by at least 75mm and extends at least 100mm beyond the sides.

For canopies and carports without upstands the procedure is similar to the top abutment flashing shown in figure 08 (see page 10) ensuring that the flashing is sealed to the canopy or carport and extends and at least 150mm over the canopy and 100mm beyond the sides.

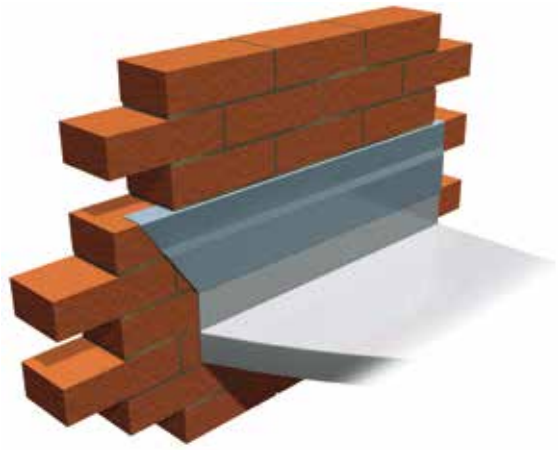
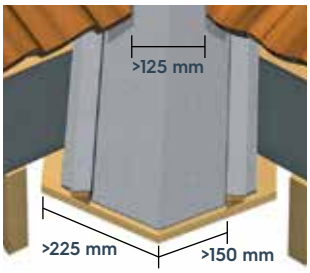


Figure 11: flashing to canopies, hoods and carports with upstands

Pitched valley lining

Ubbink Non-Lead Flashing is suitable for use in a valley gutter with all types of roof covering and boarded, battened and counterbattened roofs (Figure 12).

The flashing sits directly on the valley boards - these should extend at least 225mm each side of the centre of the valley and include tilting fillets positioned 150mm each side of the centre.



When the tiles/slates are laid the gap between then should not be less than 125mm. Valley boards (not less than 19mm thick) are laid on top of the rafters in boarded and counterbattened roofs or fixed flush with the top of the rafters in battened roofs - either notched into the rafters or fixed to noggins (trussed rafters).

The flashing extends across valley boards, over the fillets (the tops of which should be level with the top of the tiling battens) and is then fixed to the boards behind the fillet and welted to protect the fixings and provide a weathercheck.

Cut edges of single lap tiles should be bedded on the flashing with a clear water channel left behind the mortar bedding and the tilting fillet; double lapped tiles/slates are laid dry. Foot traffic should be avoided or a protection board should be used during installation.

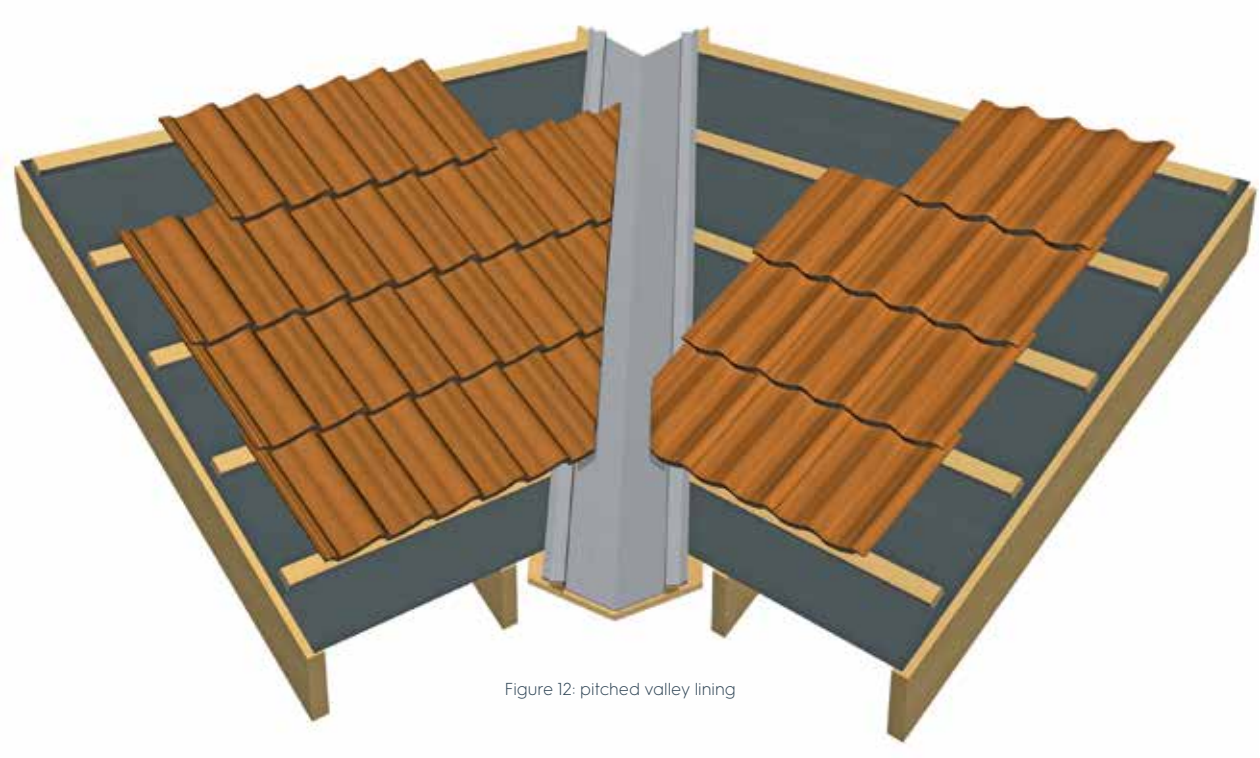


Figure 12: pitched valley lining

Sitework

Supply, handling and storage

Ubiflex Non-Lead Flashing rolls are supplied packed individually in boxes and should be stored in a dry area.

No special handling is required during storage or installation. The materials are non-toxic and recyclable.

Installation

Ubiflex Non-Lead Flashings can be worked in the same way as lead, but without the need for any protective measures.

Ubiflex Non-Lead Flashings can also be used in direct contact with any building material, including copper, zinc, iron, aluminium and stainless steel, in most climate conditions and environments.

Foot traffic should be avoided or a protection board should be used when installing the product as a valley lining.

Ubiflex Non-Lead Flashing:

- Can be cut with a sharp knife or scissors
- Can be fixed with stainless steel nails if required
- Can be joined with the relevant Ubiflex sealant to form a watertight joint (Ubiflex standard)
- Ubiflex Roller available to purchase

Maintenance and repair

Ubiflex Non-Lead Flashing does not require any maintenance in addition to a regular visual check for damage.

Certification - Ubiflex Standard

BBA Certified & compliant with British Standards

When designed and installed in accordance with the relevant parts of BS 5534:2014, BS 6229:2003 and BS 8000-6:2013, Ubiflex is suitable for use in flashing applications, such as abutments, chimneys, saddles, valleys and dormers to provide a weatherproof junction.

Unlike lead, Ubiflex can be used for long runs of up to 12m when used as a DPC or a cavity tray in masonry walls. In addition, Ubiflex is resistant to the corrosion which affects lead when portland cement containing free lime comes in contact with moisture so there is no need for additional paint protection. Ubiflex has excellent resistance to sliding under lateral loading and can withstand usual building settlement.

BRE Wind tunnel tested

Wind tunnel testing at BRE on a Ubiflex flashing surrounding a chimney and sealed with Ubiflex Gap-Seal demonstrated that the flashing will resist wind speeds of at least 49m/s (110mph) without failing.

Copies of the BRE wind tunnel test, BBA Certificate, installation instructions and health & safety data sheets are available from Ubbink or www.ubbink.com

Ubiflex Finio is currently undergoing testing for certification. Further details will be made available when this is complete.

Wind tunnel test rig at the Building Research Establishment

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE No. 08/4577

ubbink

Build smart.

Product advice
T. +44 (0)1604 433000 E. sales@ubbink.co.uk

Do you still have questions or are you looking for a solution for a specific application? Our experts will be happy to think along with you, contact them from Monday to Friday from 09.00 to 17.00

Ubbink (UK) Ltd
Unit 2 Mansard Close, Westgate Industrial Estate, Northampton NN5 5DL
T. +44 (0)1604 433000 E. info@ubbink.co.uk