





www.wemico.com

PAS Roofline Closure Specification Guide

PROTEKTOR

Contents

- 3 PAS Roofline Compliant Design
- 4 Roof Extension Trim (771)
- 5 Gable Solution (771)
- 6 Grind in Trim (781)
- 7 Upstand Trim (791)
- 8 Gutter Trim (801)
- 9 Gutter Trim Corner Section (801)
- 10 Transition Trim (722)
- 11 Grind in Cover Flashing (701)
- 12 Insulated Soil Pipe Flashing (TPSP)
- 13 Rainwater Downpipe Box
- 14 Metal Membrane (977)
- 15 Weatherproof Membrane
- 16 Connection Profiles (37207 and 37214)
- 17 Apex
- 18 End Caps
- 19 DPC Profiles
- 20 Thermo-Pro Flash (TPFL)
- 21 Customised Ancillaries
- 22 The Principles

PAS Roofline - Compliant Design



Ensuring PAS compliance at roofline closures is complex and challenging for both system designers and installers.



Protektor Wemico has engaged with industry governing bodies and warranty providers to help design a series of PAS-compliant roof closure solutions.

Protektor Wemico helped to steer the "two-steps to total protection" process. This process is defined and detailed throughout this guide.

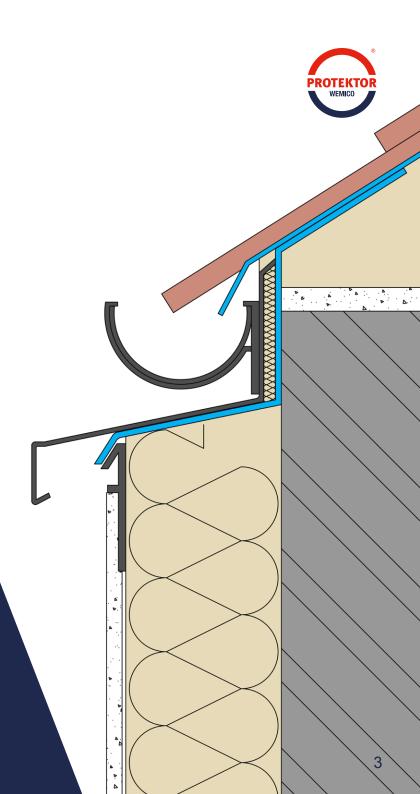
Two distinct steps are at the core of PAS compliance:

1 Membranes

Primary weather protection. Ancillary weather-proofing membranes that provide a watertight system seal.

2 Roof Extension Trims

Secondary weather protection. Metal trims, flashings and profiles.





PAS-PRO Roof Extension Trim (771)

PAS-PRO Roof Extension Trim (771) is designed to encapsulate and protect the top of the system whilst creating a clean straight line. This trim will also add secondary protection to underlying membranes.

The overhang should extend a minimum of 40mm to mitigate staining (see PAS principles on pages 22 and 23 for more information).

To prevent thermal bridging, this trim can be supplied with an optional aerogel insulated backing strip. This will improve the thermal efficiency of the system.

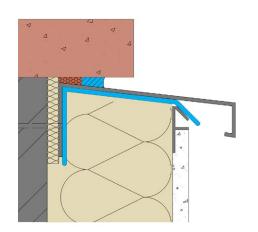


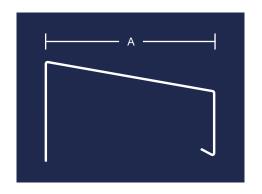
Available in black and white as standard (please suffix BLK for black)



The profile is available in a multitude of RAL colours upon request







PAS-PRO 771 - Roof Extension Trim				
CODE	SIZE DIM A	DESCRIPTION	LENGTH	
WECB771/80	80mm	Roof Extension Trim	2.5m	
WECB771/90	90mm	Roof Extension Trim	2.5m	
WECB771/100	100mm	Roof Extension Trim	2.5m	
WECB771/110	110mm	Roof Extension Trim	2.5m	
WECB771/120	120mm	Roof Extension Trim	2.5m	
WECB771/130	130mm	Roof Extension Trim	2.5m	
WECB771/140	140mm	Roof Extension Trim	2.5m	
WECB771/150	150mm	Roof Extension Trim	2.5m	

PAS-PRO 771 - Roof Extension Trim					
CODE	SIZE DIM A	DESCRIPTION	LENGTH		
WECB771/80 OVERTRIM	80mm	Roof Extension - Over Trim	2.5m		
WECB771/90 OVERTRIM	90mm	Roof Extension - Over Trim	2.5m		
WECB771/100 OVERTRIM	100mm	Roof Extension - Over Trim	2.5m		
WECB771/110 OVERTRIM	110mm	Roof Extension - Over Trim	2.5m		
WECB771/120 OVERTRIM	120mm	Roof Extension - Over Trim	2.5m		
WECB771/130 OVERTRIM	130mm	Roof Extension - Over Trim	2.5m		
WECB771/140 OVERTRIM	140mm	Roof Extension - Over Trim	2.5m		
WECB771/150 OVERTRIM	150mm	Roof Extension - Over Trim	2.5m		

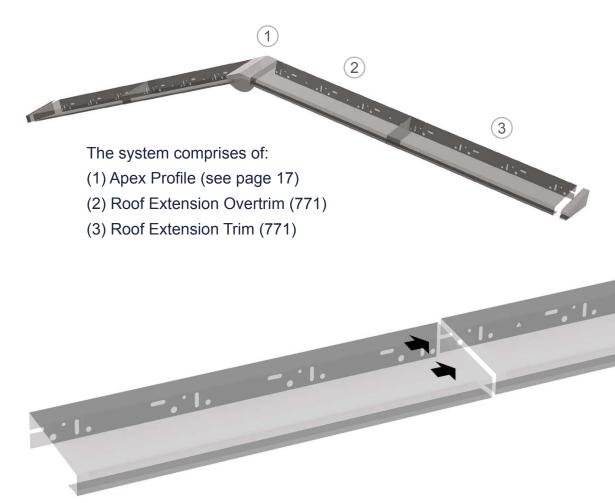


Other sizes, lengths, corners, end caps and joints available to order.

PAS-PRO Gable Solution (771)



The PAS-PRO Gable Solution (771) protects exposed gables from gutter to apex. The overlapping metal profiles provide optimum protection from driven rain, wind and weathering and reduces the need for ancillary sealant.



The three components overlap forming a protective metal closure. Overlap minimum 100mm.

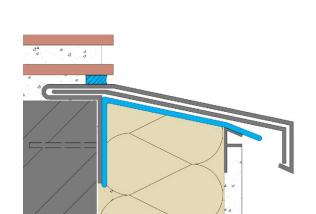


PAS-PRO Grind in Trim (781)

PAS-PRO Grind in Trim (781) is sealed into a mortar joint. This trim needs to be sealed in place with a polymer modified cementitious mortar.

The Grind in Trim oversails an ancillary protective membrane (please see pages 14 and 15 for details).

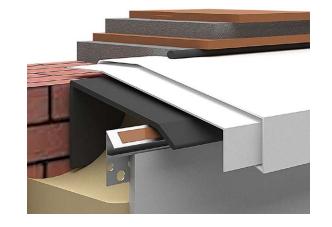
The overhang should extend a minimum of 40mm to mitigate staining (see PAS principles on pages 22 and 23 for more information).







Other sizes, lengths, corners, end caps and joints available to order.





Available in black and white as standard (please suffix BLK for black)

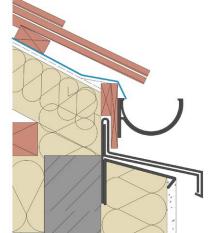


The profile is available in a multitude of RAL colours upon request

PAS-PRO Upstand Trim (791)

PAS-PRO Upstand Trim (791) has a vertical upstand that is pushed under the fascia board. This provides additional weather protection and should be used in conjunction with our range of membranes (see pages 14 and 15).

The overhang should extend a minimum of 40mm to mitigate staining (see PAS principles on pages 22 and 23 for more information).





Upstand Trim

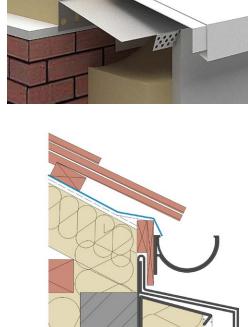
2.5m



WECB791/ 150

Other sizes, lengths, corners, end caps and joints available to order.

150mm



Available in black and white as standard (please suffix BLK for black)



The profile is available in a multitude of RAL colours upon request



PAS-PRO Gutter Trim (801)

PAS-PRO Gutter Trim (801) is used to protect the top of the system at roof level. The existing gutter will need to be removed temporarily to allow the gutter trim to be installed.

The overhang should extend a minimum of 40mm to mitigate staining (see PAS principles on pages 22 and 23 for more information).

To prevent thermal bridging, this trim can be supplied with an optional aerogel insulated backing strip. This will improve the thermal efficiency of the system.

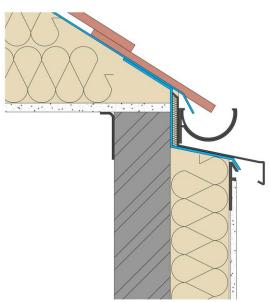


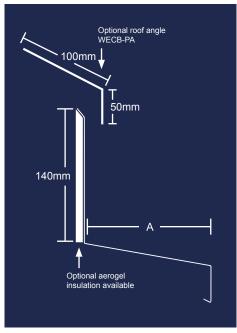
Available in black and white as standard (please suffix BLK for black)



The profile is available in a multitude of RAL colours upon request







PAS-PRO 801 - Gutter Trim			
CODE	SIZE DIM A	DESCRIPTION	LENGTH
WECB801/80	80mm	Gutter Trim	2.5m
WECB801/90	90mm	Gutter Trim	2.5m
WECB801/100	100mm	Gutter Trim	2.5m
WECB801/110	110mm	Gutter Trim	2.5m
WECB801/120	120mm	Gutter Trim	2.5m
WECB801/130	130mm	Gutter Trim	2.5m
WECB801/140	140mm	Gutter Trim	2.5m
WECB801/150	150mm	Gutter Trim	2.5m



Other sizes, lengths, corners, end caps and joints available to order.

PAS-PRO - RA - OPTIONAL ROOF JOINING ANGLE			
CODE DIM LENGTH			
WECB-RA	50mm x 100mm 2.5m		

PAS-PRO

Gutter Trim Corner Section (801)

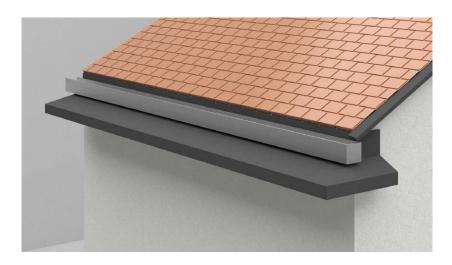
External corners and corner intersections can be highly complex. To ensure weather tightness and PAS compliance corner overlaps must exceed 100mm. Corner sections are available to suit all of our PAS compliant trims.

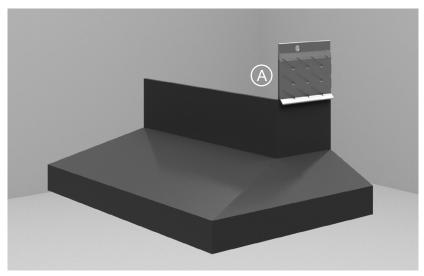
To help control the flow of water and mitigate staining, our PAS-PRO Gutter Trim Corner Sections provide the perfect intersection between the Gutter Trim and Gable Solution (771).

This corner section should be used in conjunction with our 3749 or RCJT profiles (please see page 10).

PAS-PRO 801 - Gutter Trim Corner Section			
CODE	SIZE DIM A	DESCRIPTION	
WECB801/80-EC or IC	80mm	Gutter Trim Corner - Internal or External	
WECB801/90-EC or IC	90mm	Gutter Trim Corner - Internal or External	
WECB801/100-EC or IC	100mm	Gutter Trim Corner - Internal or External	
WECB801/110-EC or IC	110mm	Gutter Trim Corner - Internal or External	
WECB801/120-EC or IC	120mm	Gutter Trim Corner - Internal or External	
WECB801/130-EC or IC	130mm	Gutter Trim Corner - Internal or External	
WECB801/140-EC or IC	140mm	Gutter Trim Corner - Internal or External	
WECB801/150-EC or IC	150mm	Gutter Trim Corner - Internal or External	

Other sizes, lengths, corners, end caps and joints available to order.





(A) 3749 or RCJT profiles



Available in black and white as standard (please suffix BLK for black)

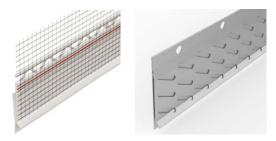


The profile is available in a multitude of RAL colours upon request



PAS-PRO Transition Trim (722)

PAS-PRO Transition Trim (722) is designed to work in conjunction with our RCJT (aluminium) or 3749 (PVC) to provide a weather tight solution at roof level by sealing the top of the transition trim with a rendered finish.



PAS-PRO - Transition Trim Clip			
CODE	RENDER DEPTH	DESCRIPTION	LENGTH
3749	6mm	PVC with mesh	2.5m
RCJT6	6mm	Aluminium	2.5m
RCJT6SS	6mm	Stainless Steel	2.5m

Also available in 10mm and 15mm.

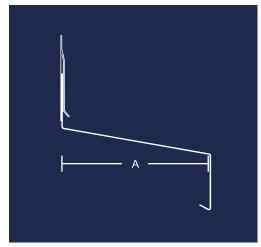


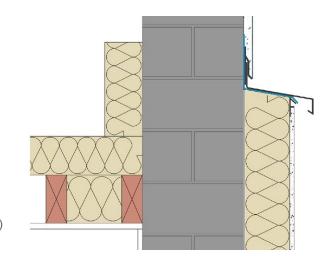
Available in black and white as standard (please suffix BLK for black)



The profile is available in a multitude of RAL colours upon request







PAS-PRO 722 - Transition Trim			
CODE	SIZE DIM A	DESCRIPTION	LENGTH
WECB722/80	80mm	Transition Trim	2.5m
WECB722/90	90mm	Transition Trim	2.5m
WECB722/100	100mm	Transition Trim	2.5m
WECB722/110	110mm	Transition Trim	2.5m
WECB722/120	120mm	Transition Trim	2.5m
WECB722/130	130mm	Transition Trim	2.5m
WECB722/140	140mm	Transition Trim	2.5m
WECB722/150	150mm	Transition Trim	2.5m

Other sizes, lengths, corners, end caps and joints available to order.

PAS-PRO

Grind in Cover Flashing (701)

PAS-PRO Grind in Cover Flashing (701) is secured by embedding into a polymer-modified cementitious mortar joint. This secondary layer of protection can be used with the 771 range, replacing the need for a membrane, creating the two steps to total protection.

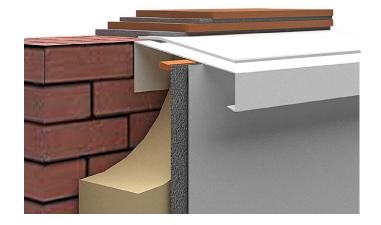
The overhang should extend a minimum of 40mm to mitigate staining (see PAS principles on pages 22 and 23 for more information).



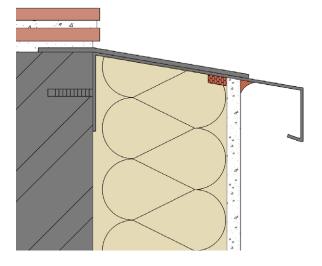
Available in black and white as standard (please suffix BLK for black)



The profile is available in a multitude of RAL colours upon request







PAS-PRO 70	PAS-PRO 701 - Grind in Cover Flashing				
CODE	SIZE DIM A	DESCRIPTION	LENGTH		
CODE	SIZE DIIVI A	DESCRIPTION	LENGTH		
WECB701/80	80mm	Grind in Cover Flashing	2.5m		
WECB701/90	90mm	Grind in Cover Flashing	2.5m		
WECB701/100	100mm	Grind in Cover Flashing	2.5m		
WECB701/110	110mm	Grind in Cover Flashing	2.5m		
WECB701/120	120mm	Grind in Cover Flashing	2.5m		
WECB701/130	130mm	Grind in Cover Flashing	2.5m		
WECB701/140	140mm	Grind in Cover Flashing	2.5m		
WECB701/150	150mm	Grind in Cover Flashing	2.5m		

Other sizes, lengths, corners, end caps and joints available to order.



PAS-PRO Insulated Soil Pipe Flashing (TPSP)

PAS-PRO Insulated Soil Pipe Flashing (TPSP) provides a weather tight and thermal bridging solution for soil pipes which can be difficult and costly to remove.

The Insulated Soil Pipe Flashing is supplied with high performance aerogel which will improve the thermal efficiency of the system.

As with all PAS-PRO sections and solutions, a waterproof membrane provides a secondary protective seal, protecting from water ingress into or behind the insulated system.

Thermo-Pro®

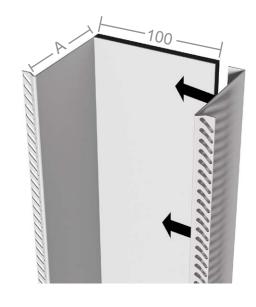


Available in black and white as standard (please suffix BLK for black)



The profile is available in a multitude of RAL colours upon request





PAS-PRO - Insulated Soil Pipe			
CODE	SIZE DIM A	DESCRIPTION	LENGTH
TPSP/80	80mm	Insulated Soil Pipe Flashing - 2 part	2.5m
TPSP/90	90mm	Insulated Soil Pipe Flashing - 2 part	2.5m
TPSP/100	100mm	Insulated Soil Pipe Flashing - 2 part	2.5m
TPSP/110	110mm	Insulated Soil Pipe Flashing - 2 part	2.5m
TPSP/120	120mm	Insulated Soil Pipe Flashing - 2 part	2.5m
TPSP/130	130mm	Insulated Soil Pipe Flashing - 2 part	2.5m
TPSP/140	140mm	Insulated Soil Pipe Flashing - 2 part	2.5m
TPSP/150	150mm	Insulated Soil Pipe Flashing - 2 part	2.5m

Other sizes, lengths and caps available to order.

PAS-PRO

Rainwater Downpipe Box

PAS-PRO Rainwater Downpipe Boxes utilise the existing guttering and drainage system. By integrating a swan-necked junction, the downpipe can be moved to the front of the insulation system.

This product features perforated edges to assist render adhesion and prevent hairline cracks.

Insulated Rainwater Downpipe Box

European Patent No. 2703574

Where required to meet the property's PAS requirements, the rear of the box can be insulated with > 10mm of high-performance insulation which reduces thermal bridging.

Thermo-Pro®

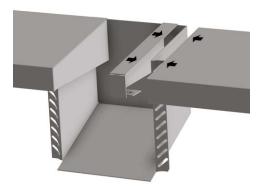


Available in black and white as standard (please suffix BLK for black)



The profile is available in a multitude of RAL colours upon request





PAS-PRO - Rainwater Down Pipe Box				
CODE	SIZE DIM A	DESCRIPTION	LENGTH	
DP/80	80mm	Rainwater Box	2.5m	
DP/90	90mm	Rainwater Box	2.5m	
DP/100	100mm	Rainwater Box	2.5m	
DP/110	110mm	Rainwater Box	2.5m	
DP/120	120mm	Rainwater Box	2.5m	
DP/130	130mm	Rainwater Box	2.5m	
DP/140	140mm	Rainwater Box	2.5m	
DP/150	150mm	Rainwater Box	2.5m	

Other sizes available to order

Insulated Rainwater Down Pipe Box			
CODE	SIZE DIM A	DESCRIPTION	LENGTH
TPR/80	80mm	Rainwater Box	2.5m
TPR/90	90mm	Rainwater Box	2.5m
TPR/100	100mm	Rainwater Box	2.5m
TPR/110	110mm	Rainwater Box	2.5m
TPR/120	120mm	Rainwater Box	2.5m
TPR/130	130mm	Rainwater Box	2.5m
TPR/140	140mm	Rainwater Box	2.5m
TPR/150	150mm	Rainwater Box	2.5m

Other sizes available to order.

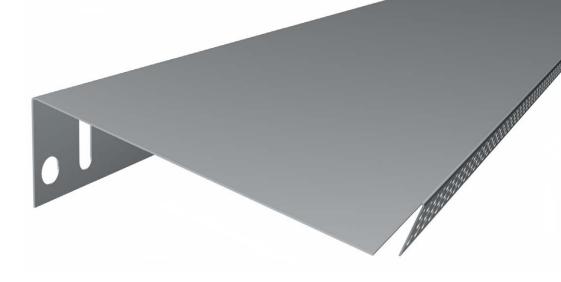


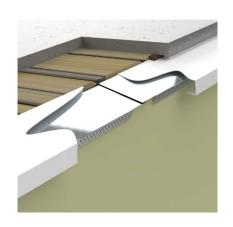
PAS-PRO Metal Membrane (977)

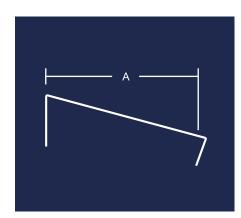
PAS-PRO Metal Membrane (977) provides a waterproof barrier and can be used as one of the two steps to total protection.

This membrane is available in mill finish aluminium.









PAS-PRO - Metal Membrane (977)				
CODE	SIZE DIM A	DESCRIPTION	LENGTH	
97708W	80mm	Aluminium Membrane	2.5m	
97709W	90mm	Aluminium Membrane	2.5m	
97710W	100mm	Aluminium Membrane	2.5m	
97711W	110mm	Aluminium Membrane	2.5m	
97712W	120mm	Aluminium Membrane	2.5m	
97713W	130mm	Aluminium Membrane	2.5m	
97714W	140mm	Aluminium Membrane	2.5m	
97715W	150mm	Aluminium Membrane	2.5m	

Other sizes and lengths available to order.

PAS-PROWeatherproof Membrane

PAS-PRO Weatherproof Membrane is a waterproof barrier suitable for use in all PAS-PRO applications.

This product is available in a variety of sizes and is designed for installation on-site, providing a secure secondary seal.





A2 Membrane			
CODE	SIZE DIM A	DESCRIPTION	LENGTH
MEMBRANE-A2 250	300mm	A2 FIRE MEMBRANE 10M	ROLL
MEMBRANE-A2 300	300mm	A2 FIRE MEMBRANE 10M	ROLL
MEMBRANE-A2 350	300mm	A2 FIRE MEMBRANE 10M	ROLL
MEMBRANE-A2 400	500mm	A2 FIRE MEMBRANE 10M	ROLL

Other sizes available to order.

Universal Membrane			
CODE	SIZE DIM A	DESCRIPTION	LENGTH
MEMBRANE-UNIV 250	250mm	UNIVERSAL MEMBRANE 25M	ROLL
MEMBRANE-UNIV 300	300mm	UNIVERSAL MEMBRANE 25M	ROLL
MEMBRANE-UNIV 350	350mm	UNIVERSAL MEMBRANE 25M	ROLL
MEMBRANE-UNIV 500	500mm	UNIVERSAL MEMBRANE 25M	ROLL

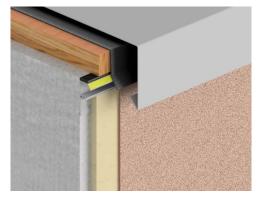
Other sizes available to order.



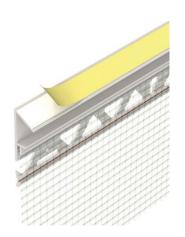
PAS-PRO Connection Profiles (37207 and 37214)

PAS-PRO Connection Profiles protect from driving rain and ensure optimum weather tightness.

These profiles are suitable for use in all PAS-PRO applications and with multiple finishes.









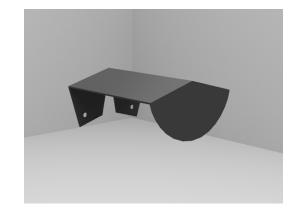


PAS-PRO - Connection Profile (37214)			
CODE	RENDER	DESCRIPTION	LENGTH
37214	8mm-14mm	Connection Profile	2.5m

PAS-PRO Apex

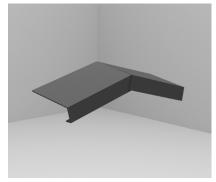
PAS-PRO Apexes are a range of flexible site-formed, PAS-compliant weathertight trims for use at the top of the gable wall.

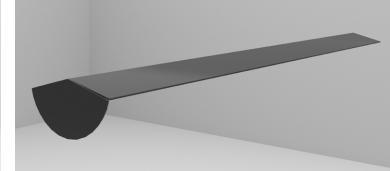
Apex sections are used in union with our PAS-PRO roof closure trims and membranes to ensure compliance.



PAS-PRO - Apex Trim with lugs			
CODE	SIZE DIM A	DESCRIPTION	LENGTH
APEX TB 771/80	80mm	Apex Trim with lugs	each
APEX TB 771/90	90mm	Apex Trim with lugs	each
APEX TB 771/100	100mm	Apex Trim with lugs	each
APEX TB 771/110	110mm	Apex Trim with lugs	each
APEX TB 771/120	120mm	Apex Trim with lugs	each
APEX TB 771/130	130mm	Apex Trim with lugs	each
APEX TB 771/140	140mm	Apex Trim with lugs	each
APEX TB 771/150	150mm	Apex Trim with lugs	each

Other sizes available to order.







Available in black and white as standard (please suffix BLK for black)



The profile is available in a multitude of RAL colours upon request



PAS-PRO - Apex Trim Curved				
CODE	SIZE DIM A	DESCRIPTION	LENGTH	
APEX 200 CURVED	200mm	Apex Trim Curved	each	
APEX 250 CURVED	250mm	Apex Trim Curved	each	



PAS-PRO End Caps

Our PAS-PRO End Caps can be used with the 722, 771, 781, 791 and 801 profiles.

A good quality sealant must be applied to the inside of the profile before sliding the end cap into position. Aluminium rivets can be used to secure the end cap in place.





Available in black and white as standard (please suffix BLK for black)



The profile is available in a multitude of RAL colours upon request



Trim Ancilliaries			
CODE	SIZE DIM A	DESCRIPTION	LENGTH
EC-R 80	80mm	80mm End Caps - 722/771/781/791/801 ranges	2.5m
EC-R 90	90mm	90mm End Caps - 722/771/781/791/801 ranges	2.5m
EC-R 100	100mm	100mm End Caps - 722/771/781/791/801 ranges	2.5m
EC-R 110	110mm	110mm End Caps - 722/771/781/791/801 ranges	2.5m
EC-R 120	120mm	120mm End Caps - 722/771/781/791/801 ranges	2.5m
EC-R 130	130mm	130mm End Caps - 722/771/781/791/801 ranges	2.5m
EC-R 140	140mm	140mm End Caps - 722/771/781/791/801 ranges	2.5m
EC-R 150	150mm	150mm End Caps - 722/771/781/791/801 ranges	2.5m

Other sizes available to order.

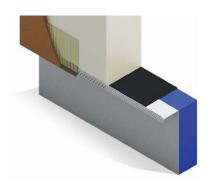
PAS-PRO

Thermo-Pro Track (DPC)

PAS-PRO Insulated Base Track is designed to reduce cold bridging at the base of the system.

The profile is bonded to insulation (XPS).

This solution is easy to install, easy to clean, aesthetically pleasing and improves the thermal performance of the system.



PAS-PRO Thermo-Pro Track (DPC)			
CODE	WIDTH	LENGTH	
TPT/80	80mm	2.5m	
TPT/90	90mm	2.5m	
TPT/100	100mm	2.5m	
TPT/110	110mm	2.5m	
TPT/120	120mm	2.5m	
TPT/130	130mm	2.5m	
TPT/140	140mm	2.5m	
TPT/150	150mm	2.5m	

Other sizes, lengths, corners and end caps available to order.

GB Patent No. 2528659



This profile is manufactured to suit customer's requirements.

PAS-PRO

PVC Profiles (DPC)



This solution is designed to be used at DPC level reducing cold bridging and providing a clean line.

PAS-PRO PVC Base Tracks (DPC)				
CODE	RENDER DEPTH	WIDTH	LENGTH	
37500	6mm	60mm	2m	
37501	6mm	100mm	2m	
37503	10mm	60mm	2m	

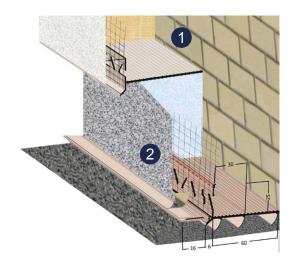
on hard surfaces such as concrete and tarmac.

This profile is recommended for use

Other sizes available to order.



PAS-PRO PVC Ground	Profile
CODE	LENGTH
37520	2m





PAS-PRO Thermo-Pro Flash (TPFL)

PAS-PRO Thermo-Pro Flash (TPFL) has been developed to prevent cold bridging in hard to insulate areas.

The solution comprises of 10mm high performance insulation bonded onto a self adhesive lead replacement flashing. The key areas of use are connecting wall and roof junctions, parapet roofs and bay windows.

This solution is quick and easy to use enhancing the performance of EWI systems, both on new build and retrofit applications.



Only available in black





PAS-PRO Thermo-Pro	Flash
CODE	LENGTH
TPFL	2.5m

PAS-PROCustomised Ancillaries

Protektor Wemico offer a customised profile service and can produce bespoke insulated and uninsulated trims to suit the specific needs of your project.

Contact Protektor Wemico to discuss your requirements on 01562 820123.







To deliver absolute compliance the steps and solutions must satisfy a series of principles documented in the "External Wall Insulation specification for weathering and thermal bridge control guide".

The principles are designed to steer the development of roof closure solutions to comply with PAS.

The principles* include:

Redundancy of seals:

At least two lines of weathering protection required. Sealants shall not be employed to provide the primary barrier to water penetration. The additional redundancy can be achieved with an additional trim or suitable membrane. All joints must have a double seal to comply with the PAS requirements.

At eaves with insufficient roof overhang: Protection afforded to the top of the EWI system must include a secondary waterproof membrane and/ or flashing that tucks under the existing sarking felt. Overhang must be appropriate for exposure zone, (40 mm moderate or sheltered exposure – 50 mm severe or very severe exposure) based on the BRE wind driven rain map in BR262 Thermal insulation: avoiding risks – Appendix A: WP2 / (publishing.service.gov.uk)

2 Gable-to-eaves junctions must be achieved with overlapping, prefabricated units/connectors:

Site fabrication is not permissible though minor site trimming is permissible. Any joints between the primary and secondary seal must be staggered by 100 mm. Insulation to be maintained in corner of gable wall up to level of loft insulation as per Retrofit Designer requirements.

Gable apexes must be formed using prefabricated elements:

Site bent flashing can be utilised however secondary lead replacement flashing required over the apex. Site-formed mitre joints using two separate profiles are not permissible.

4 Connections between adjacent sections of Roof closure systems:

Must incorporate an under or over connector that extends min. 40 mm on each side of the joint. Connectors must be sealed to both sections of the metal profile (roof closure, etc) using ancillary sealing tapes or ancillary sealants that must extend for the full width of the trim. Any joints between the primary and secondary seal must be staggered by 100 mm requirements.

If using lead as a solution the maximum length in a single piece should be 1200 mm and overlaps should follow best practice. Ensure health and safety requirements are complied with Control of Lead at Work (Third edition) - Control of Lead at Work Regulations 2002 Approved Code of Practice and guidance (hse. gov.uk) If lead replacement flashings are used, these should be securely fixed in accordance with the manufacturer's recommendations.

^{*} Version 4th March 2023. The principles may be subject to change and periodic review.



- If soffit/roof overhangs are 40 mm (50 mm for high exposure) or less then trims/flashings should be embedded into the masonry, or below the cement pointing at verges and sealed. Any joints between a primary and secondary layer of redundancy must be overlapped by a minimum 100mm. The sand and cement fillet should be replaced with a suitable flexible mortar.
- The installation of the **weathering protection** details must be separately included within the EWI system holder training that is provided to registered EWI installation contractors.
- In all cases there should be continuity of the roof insulation and the insulated roofline closure solution to provide a minimum "thermal resistance of 0.6m2K/W (and ensure no thermal bridging).
- 9 Roofline closure details that do not meet the requirements above may not be acceptable for use with funded or private schemes.





PROTEKTOR GROUP UK LTD

Protektor House, Edwin Avenue Hoo Farm Estate, Kidderminster Worcs, DY11 7RA

T: 01592 820123 F: 01562 822012

E: sales@wemico.co.uk

