

# Roof trims and accessories

for flat roofs



Whitesales®  
Rooflights & more...



## Company profile

Whitesales has over 20 years' experience in the manufacture and distribution of speciality flat roofing products. As a company we have the dedication and resource to fulfil the most demanding of requirements throughout the UK. Our experienced and expert personnel have an in-depth knowledge of industry regulations, which ensures we provide up to date advice on fully compliant solutions. Also, we invest in ecologically friendly business processes meaning that our products are from sustainable sources.

## Rooflights and more...

Whether you are a specifier, contractor or merchant, you will benefit from working with us. The following are just some of the reasons why you should choose Whitesales.

### High quality products

Our speciality roofing products and accessories are tested to the highest standards and are suitable for use with most flat roof systems, including single ply, felt, hot-melt, asphalt, liquid, GRP and lead. Our tubular rooflights are ideal for use on pitched or flat roofs.

### Nationwide coverage and next day delivery

With depots strategically located in England and Scotland, Whitesales offers nationwide next day delivery on our own transport or overnight carrier service. Deliveries can be direct to site or to contractor or merchant premises.

### Technical advice and support

The Whitesales Customer Service Team is readily available to assist you, from your initial enquiry through to after sales support. This includes help with specification writing, site surveys, condition reports, budget costings and fully detailed quotations.


### Guarantees

All products supplied are fully guaranteed including insurance backed guarantee on request.


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Whitesales is  
**renowned for proven  
product ranges,**  
industry leading levels  
of service and expertise.

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### Why is natural daylight so important?

Natural daylight has long been recognised as the most effective form of light. Building Regulation Approved Document L requires designers to provide adequate daylight ‘...where rooflight areas are reduced below 20%, the building designer must take special care to demonstrate daylight levels remain adequate...’

Flat roof rooflights are the most efficient means of providing natural daylight, providing up to three times more daylight than an equally-sized vertical window. The light from a rooflight is also more evenly distributed throughout the room, less likely to result in glare or compromise of privacy.

Natural daylight is an invaluable natural asset. The benefits of a naturally-lit workspace are well documented and include increased productivity, work satisfaction and cost reduction, as well as significant reduction of impact to the environment. From a building design perspective the use of rooflights is an excellent means by which both light and solar energy can be utilised to save energy and to reduce the carbon footprint of any property.

There are specific industry policies and guide documents to assist with introducing naturally-lit space into different building types (especially schools). Whitesales can offer support and advice on the requirements for specific applications.

# Product overview: The 'Whitesales' roof



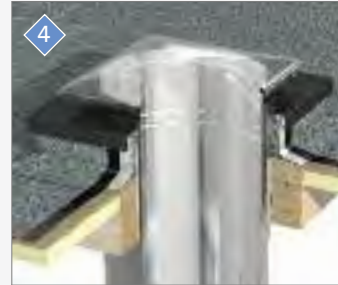
**Em-Dome**

Thermoformed dome and pyramid shape rooflights. Em-Domes are offered in a wide range of sizes and glazing options. **See our dedicated brochure 'Modular rooflights'.**



**Em-Glaze Modular**

Flat glass rooflights with polyester powder coated aluminium frame. Em-Glaze Modular units are available from stock with other bespoke sizes available to order. **See our dedicated brochure 'Modular rooflights'.**



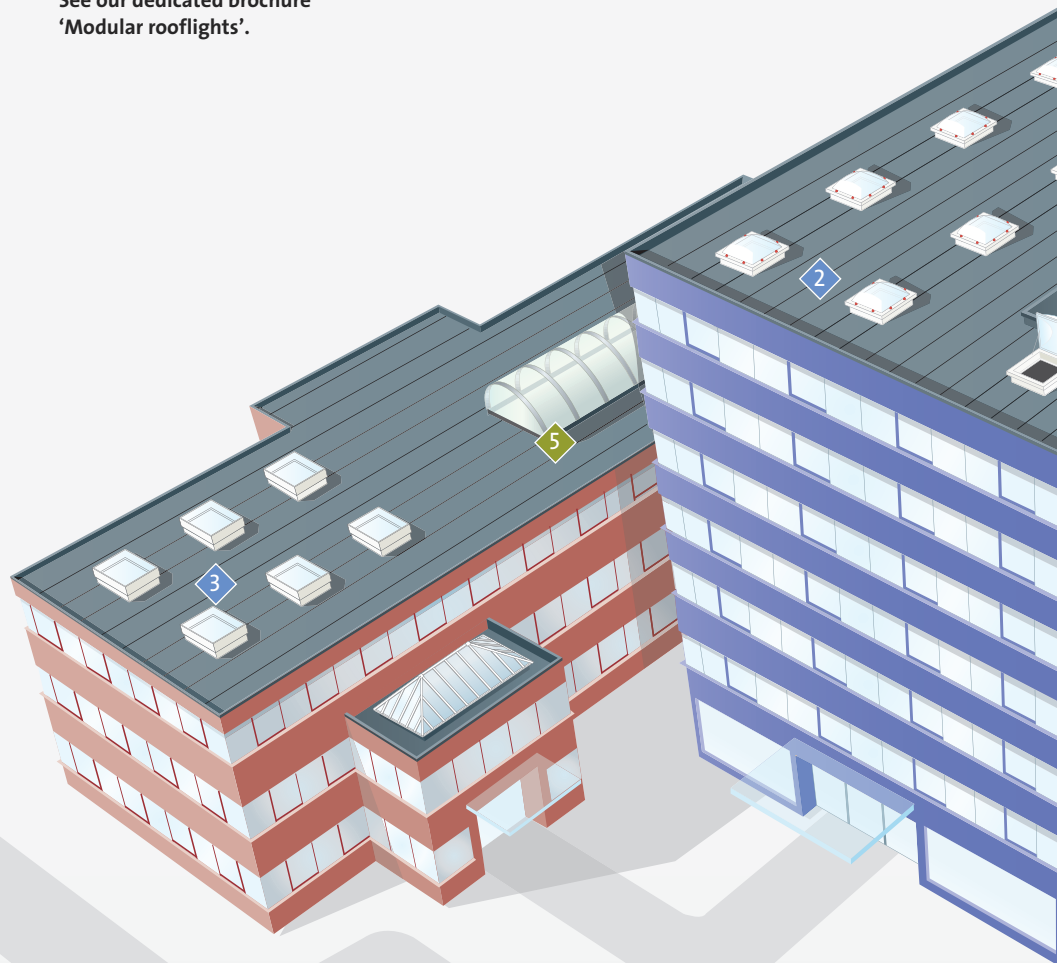
**Em-Tube**

Tubular skylights for flat or pitched roofs with either a rigid or flexible internal tube. Em-Tubes are available from stock in a range of sizes and accessory options. **See our dedicated brochure 'Modular rooflights'.**

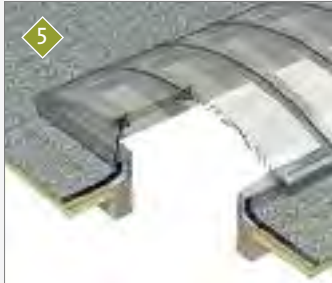


**Em-Vent**

Smoke ventilators incorporating either glazed or solid covers. Em-Vents are available in sizes designed to meet current regulations and to suit site dimensions. Em-Hatch Access Hatches also available. **See our dedicated brochure 'Smoke ventilation and access hatches'.**



Whether you require design recommendations or have a project on site, Whitesales has the experience, product and service to meet that need.



**Em-Vault**

Barrel vaulted continuous sectional rooflights in polycarbonate. Em-Vaults are ideally suited to covering large areas and are made to measure. T-Vault GRP barrel vaults are also available as a functional alternative. **See our dedicated brochure 'Continuous rooflights'.**



**Em-Glaze Monopitch**

Continuous monopitch skylights in glass or polycarbonate with aluminium framework and cill sections. The Em-Glaze range also includes Ridgelight, Pyramid and Lantern varieties. **See our dedicated brochure 'Continuous rooflights'.**



**Em-Trim**

GRP roof edge trim. Em-Trim is available in a wide range of sizes and colours. T-Trim aluminium roof edge trim is also available along with Em-Bar and T-Bar termination bar.

**See pages 6-13 for Em-Trim.**

**See pages 14-19 for T-Trim.**

**See pages 20-23 for Em-Bar/T-Bar.**



**Em-Pad**

Adjustable paving slab support pad. Em-Pads are adjustable height to allow accurate levelling of paving systems. T-Pad fixed unit is also available. The Accessories range also includes T-Vent breather vents, T-Sleeve pipe sleeves and T-Pipe drainage outlets.

**See pages 24-35 for flat roof accessories.**



# Em-Trim GRP

High quality, durable roof edge trim manufactured from glass fibre reinforced polyester. Em-Trim is designed to provide a neat and unobtrusive finishing detail for the edge of any flat roof.

## Features

- Neat unobtrusive appearance
- Market leading quality
- Simple to handle, work and install
- Suitable for use with most waterproofing types
- Negligible coefficient of expansion, eliminating problem of membranes tearing at the trim joint
- Will not corrode, rust or dent
- UV protected
- Maintenance free



## Description

Em-Trim roof edge trim is manufactured from pultruded glass fibre reinforced polyester. The enhanced composition ensures that the trim is highly durable and resilient to adverse weather conditions and atmospheric pollution.

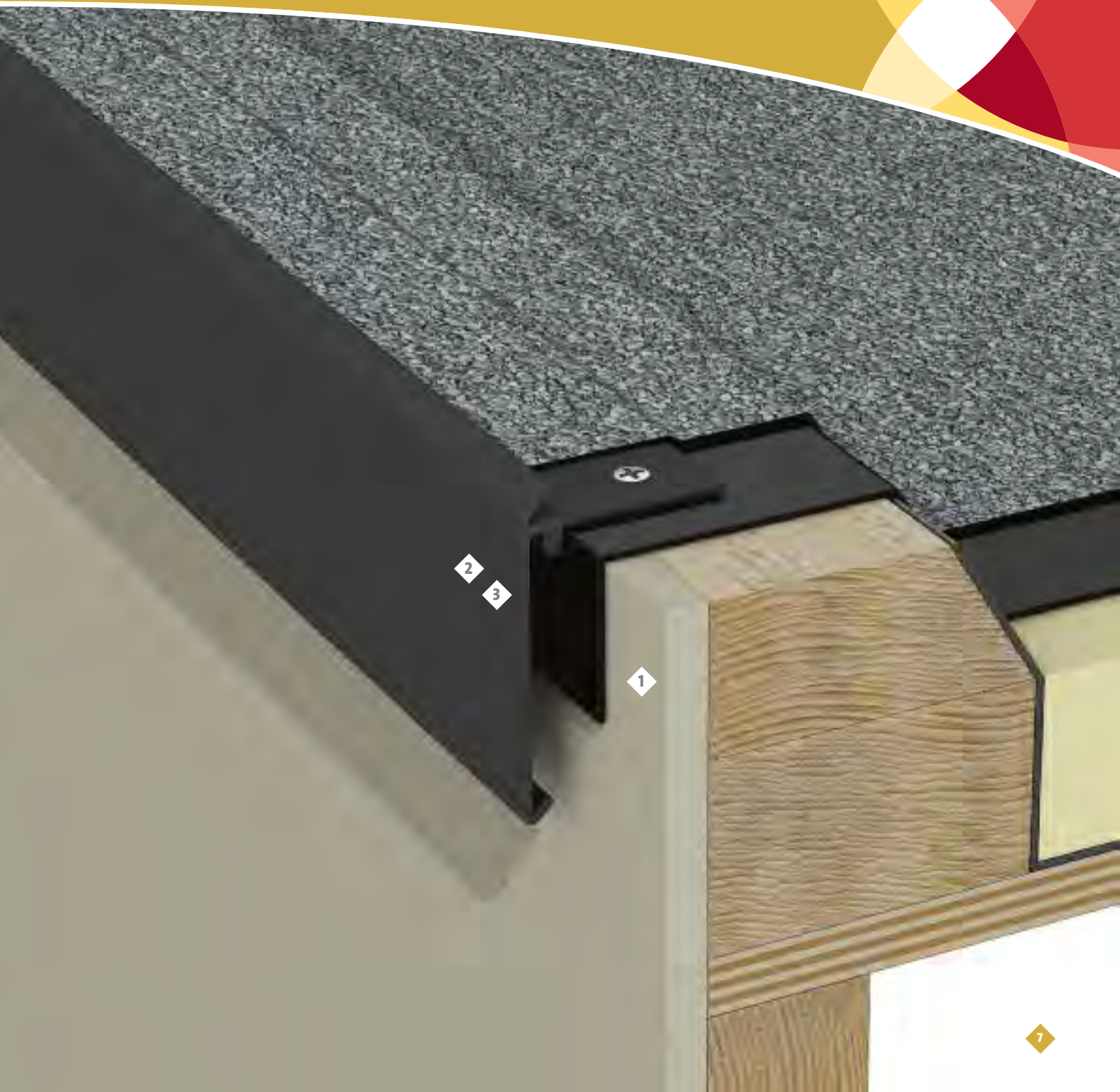
The trims are supplied in 3m lengths and can be easily cut on site to follow the alignment of roof edges, and are suitable for both new build and refurbishment applications.

Profiles are available from stock in black, white and grey. Further colours available to special order.

Preformed corners are available for all Em-Trim profiles.

# Em-Trim key features

- 1 Hides untidy roof details
- 2 Available from stock in black, white or grey
- 3 17 standard profiles
- 4 Bespoke options available to suit specific applications
- 5 Preformed corners available



# Em-Trim profiles



## Performance

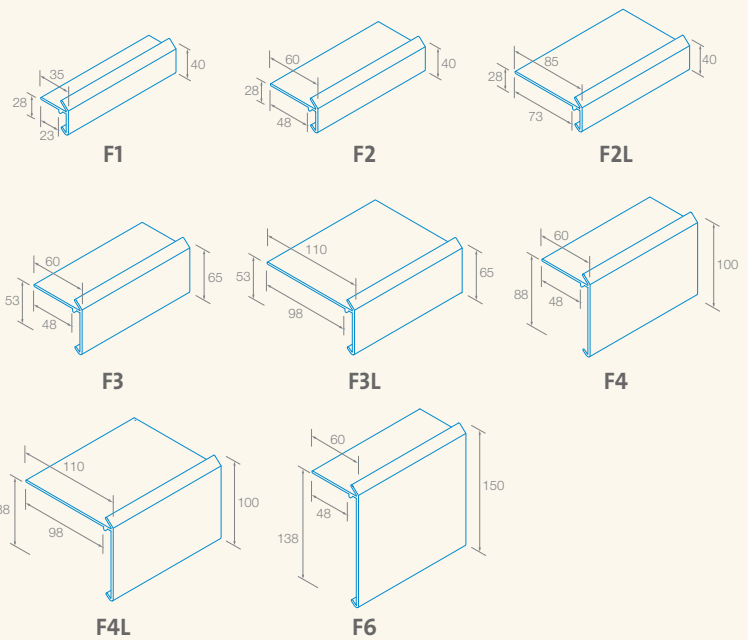
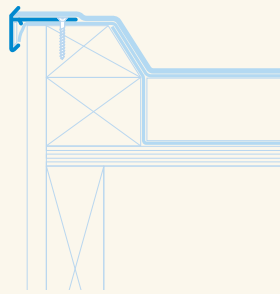
Em-Trim profiles have a very low coefficient of thermal expansion minimising the problem of roof membranes tearing at the trim joints.

The GRP composition of Em-Trim is highly resistant to atmospheric corrosion, making the product maintenance free.

Em-Trim is unaffected by the temperatures of hot mastic and liquid bitumen.

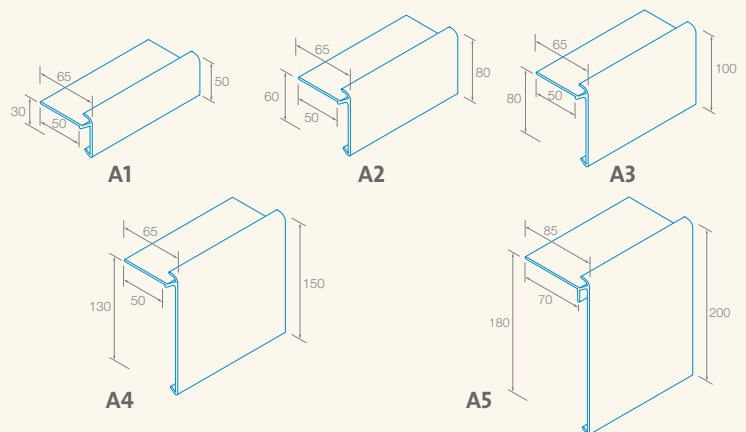
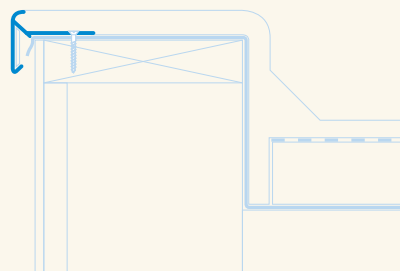
## 'F' Profiles

→ For built up felt and liquid membranes



## 'A' Profiles

→ For mastic asphalt, built up felt and liquid membranes





## Finishes

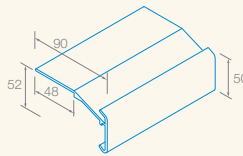
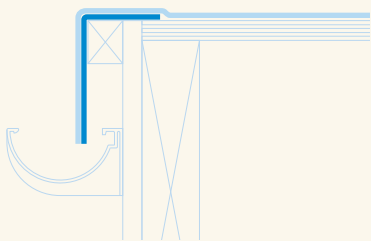
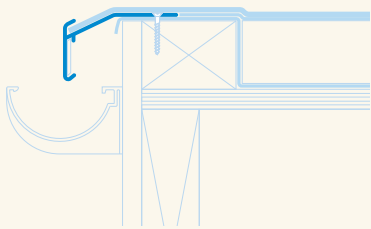
All profiles are available from stock in black, white and grey.

They are also available to special order, colour coated to any RAL colour number.



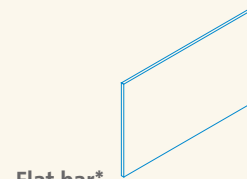
## Drip edge and other profiles

\* Black only



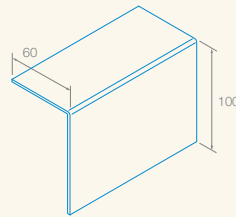
**DE50\***

- Built up asphalt
- Mastic asphalt
- Liquid



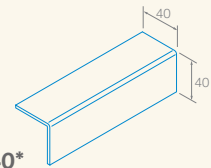
**Flat bar\***

Any size up to 200mm



**L100/60\***

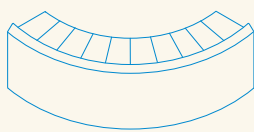
- Liquid



**L40/40\***

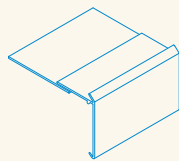
## Specialist applications

Em-Trims are available modified to suit specific applications – some examples of modified trims are shown here.



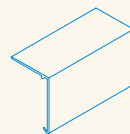
**Notched fixing arm**

For curved applications



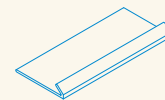
**Extended fixing arm**

For extra fixing strength



**Top lip removed**

For drip edge applications



**Felt stop**

Where no trim face is required

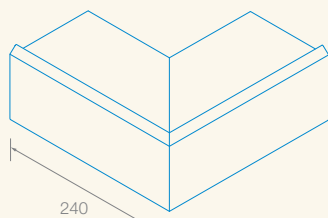
# Em-Trim corners



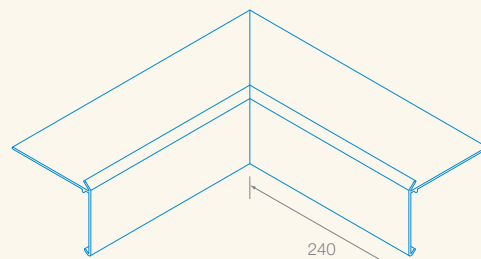
Pre-formed corners eliminate the need for on-site mitre cutting. They also ensure a neat, accurate and watertight detail at any change in roof edge direction.

## Standard size 90° external and internal corners

Available from stock.



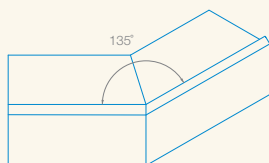
External corner



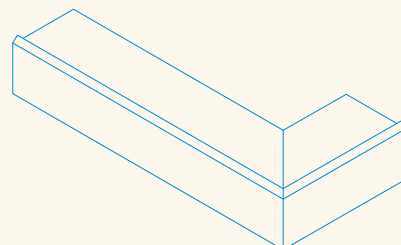
Internal corner

## Bespoke corners

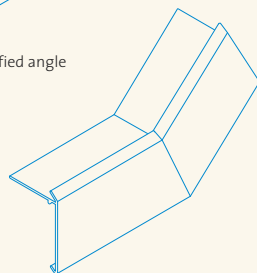
Available to special order, to suit specific requirements. These include, but are not limited to:



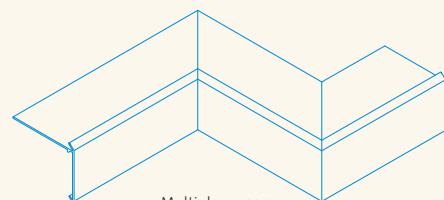
Manufactured to any specified angle



Manufactured to any specified length



Manufactured to suit change in roof gradient



Multiple corners



<b>Case study</b>	Toynbee School
<b>Project type</b>	Refurbishment
<b>Product</b>	Em-Trim F6
<b>Material</b>	GRP
<b>Colour</b>	Black
<b>Quantity</b>	672 linear metres
<b>Other</b>	Em-Dome rooflights

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<b>Case study</b>	University of Portsmouth
<b>Project type</b>	Refurbishment
<b>Products</b>	Em-Trim F6, Em-Trim F3, Em-Bar GF62
<b>Material</b>	GRP
<b>Colour</b>	Grey
<b>Quantity</b>	413 linear metres
<b>Other</b>	Curved Em-Trim

# Em-Trim supply & installation

## Supply

Em-Trim is supplied in 3m lengths, complete with all necessary connectors. There are 10 lengths per carton.

## Sitework

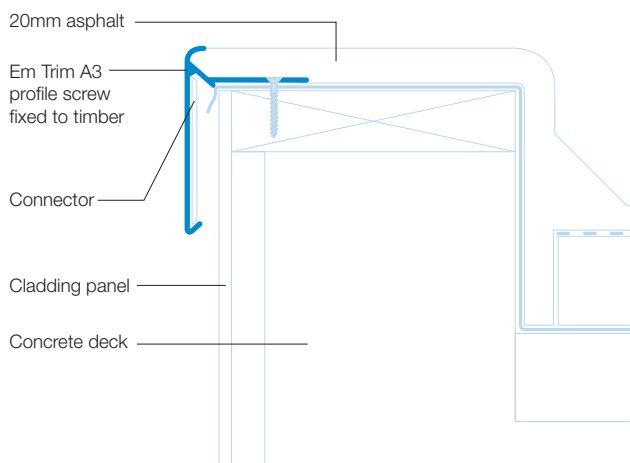
All drilling and cutting can be carried out using traditional tools. Em-Trim is normally fixed over the first layer of a built-up roofing system or the sheathing felt when asphalt is used. Typical details are shown below.

Em-Trim should be fixed at maximum 300mm centres, using suitable fixings. A comprehensive range of fixings and drill bits is available from stock (refer to page 35 for details on fixings).

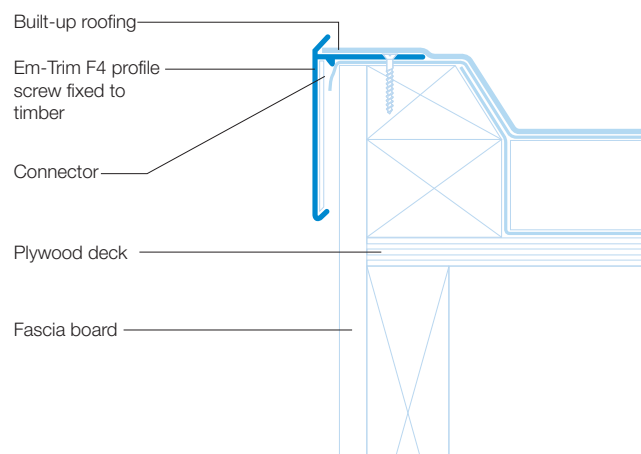
All lengths should be close butt jointed, using the connecting pieces supplied.



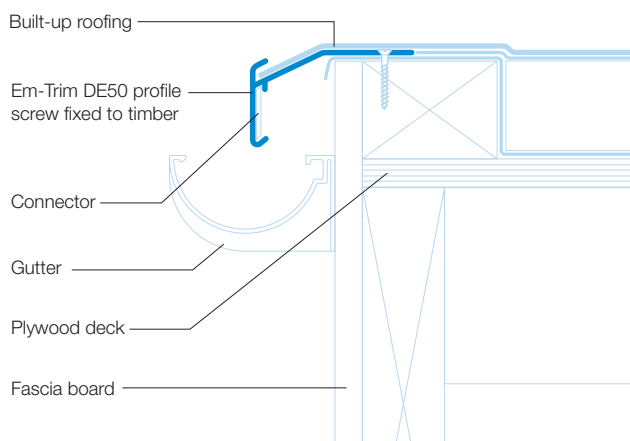
## Asphalt finish on concrete deck



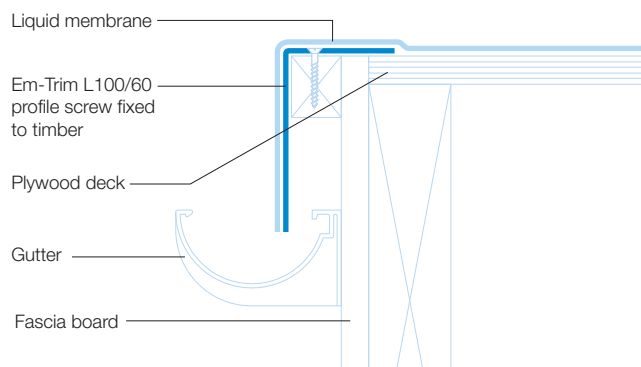
## Felt finish on plywood deck



## Felt finish on plywood deck



## Liquid finish on plywood deck



# T-Trim Aluminium

High quality, economical roof edge trim manufactured from aluminium. T-Trim is designed to provide a neat and unobtrusive finishing detail for the edge of any flat roof.

## Features

- Economical system
- Neat unobtrusive appearance
- Suitable for use with most waterproofing types
- High strength to weight ratio
- Simple to handle, work and install
- Maintenance free



## Description

T-Trim roof edge trim is manufactured from extruded aluminium alloy to BS 1474, Quality 6063/T6 (AlMgSi 0.5 F22). This provides a resilient finish that is not affected by atmospheric pollution and will not rust.

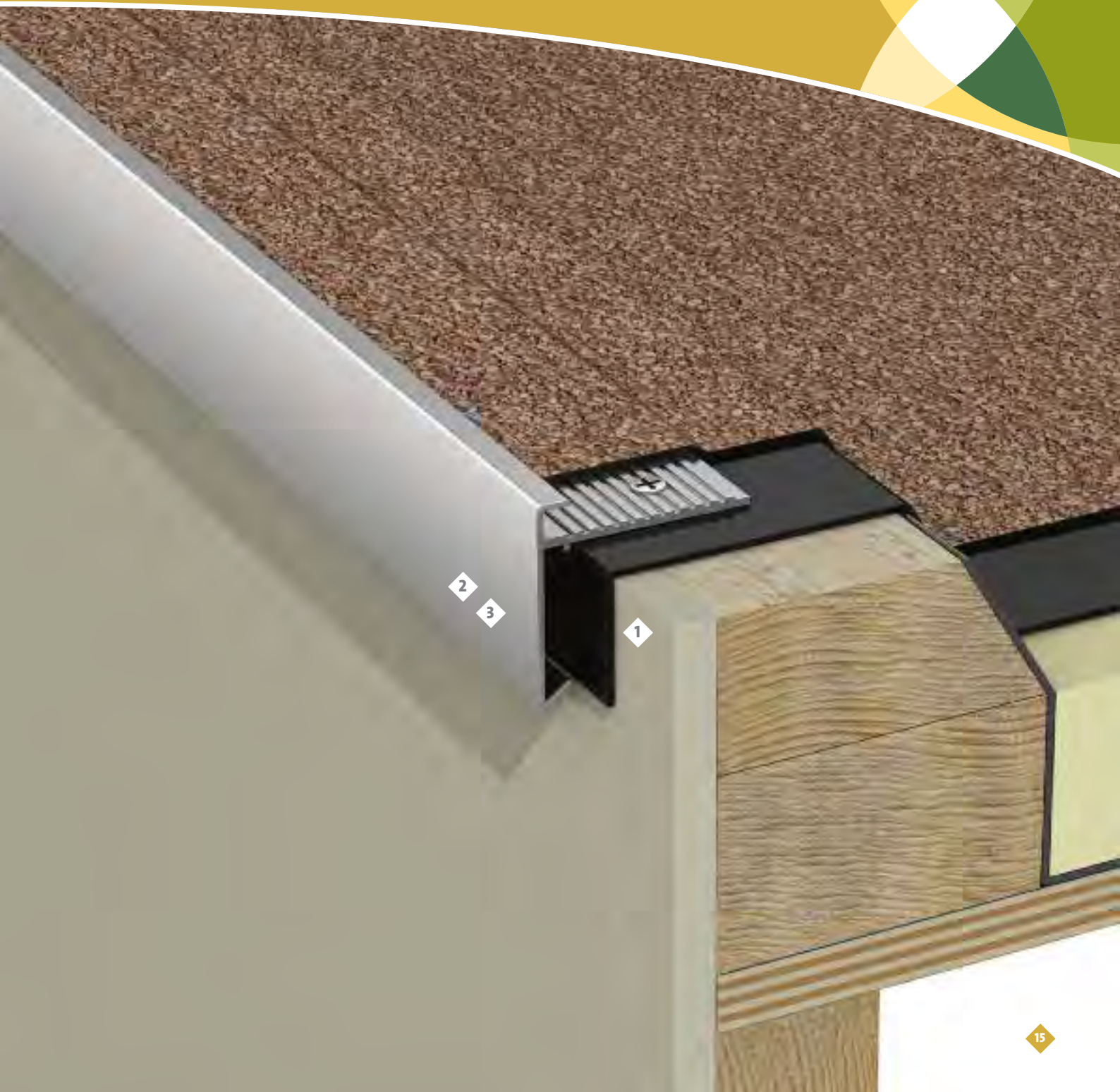
The trims are supplied in 3m lengths and can be easily cut on site to follow the alignment of roof edges, and are suitable for both new build and refurbishment applications.

All profiles are available from stock in mill finish. Further colours are available to special order.

Preformed corners are available for all T-Trim profiles.

# T-Trim key features

- 1 Hides untidy roof details
- 2 Mill finish
- 3 13 standard profiles
- 4 Preformed corners available



# T-Trim profiles and corners



## Performance

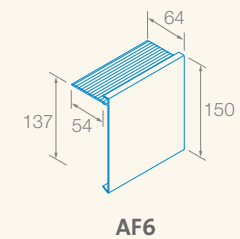
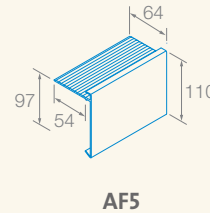
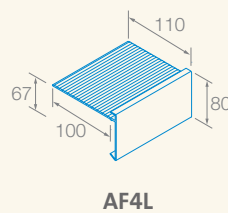
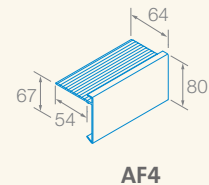
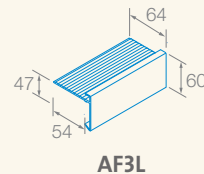
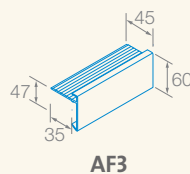
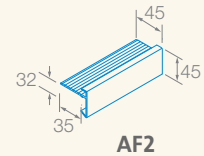
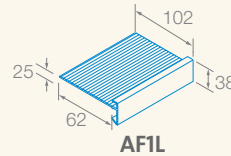
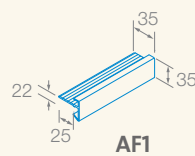
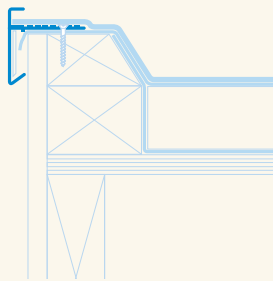
Due to T-Trim's aluminium composition it will not rust and is not affected by atmospheric pollution.

Anodised or polyester powder coated profiles are colourfast and once installed are maintenance free.

T-Trim is unaffected by the temperatures of hot mastic and liquid bitumen.

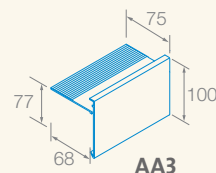
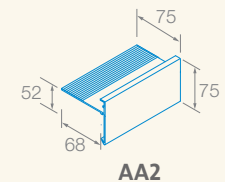
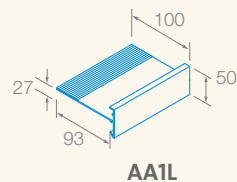
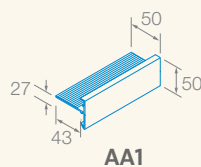
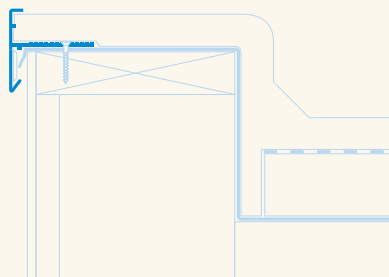
## 'AF' Profiles

→ for built up felt roofing systems



## 'AA' Profiles

→ For mastic asphalt roofing systems





## Finishes

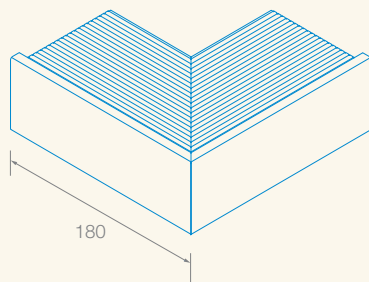
All profiles are available from stock in mill finish.

They are also available to special order powder coated or anodised to any RAL colour number.

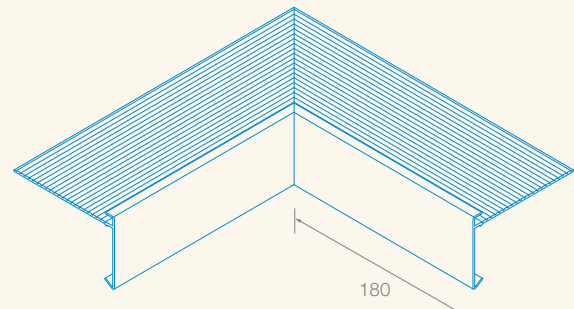


## T-Trim corners

Available from stock.



External corner



Internal corner



## Bespoke folded aluminium profiles are also available, for example:

- Twice bent roof edge trim
- Parapet wall capping profiles
- Many other bespoke items

## Bespoke corners

Available to special order, to suit specific requirements. For example, manufactured to any specific length or angle.

# T-Trim supply & installation



## Supply

Em-Trim is supplied in 3m lengths, complete with all necessary connectors.

## Sitework

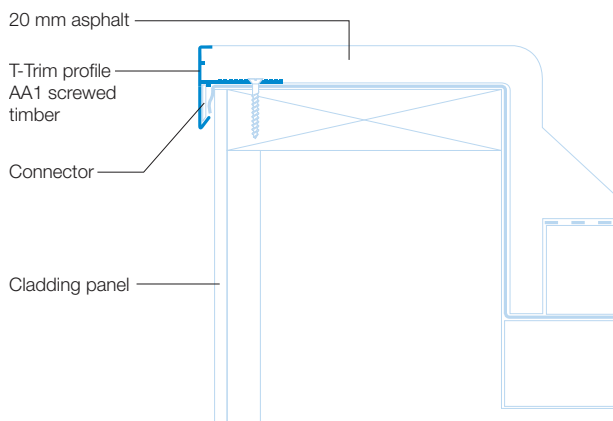
All drilling and cutting can be carried out on site using traditional tools.

T-Trims should be fixed over the first layer of a built-up roofing system or the sheathing felt when asphalt is used. Typical details are shown on the illustrations below.

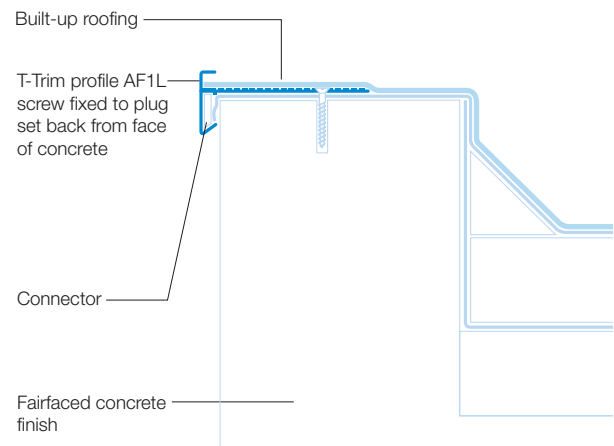
T-Trims should be fixed at maximum 300mm centres, using suitable fixings. A comprehensive range of fixings and drill bits is available from stock (refer to page 35 for details on fixings).

All lengths should be close butt jointed, using the connecting pieces supplied.

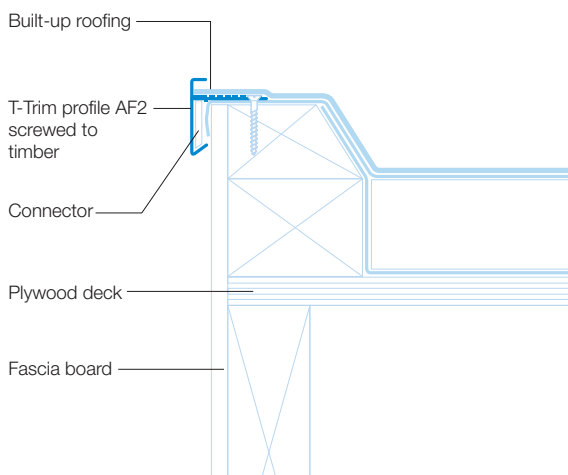
## Asphalt finish on timber deck



## Felt finish on concrete deck



## Felt finish on plywood deck





**Case study** Kellands Primary School  
**Project type** Refurbishment  
**Product** T-Trim AF5  
**Material** Aluminium  
**Quantity** 360 linear metres  
**Colour** Mill finished

# Em-Bar and T-Bar

High quality, durable termination bars manufactured from either glass fibre reinforced polyester or mill finished aluminium. Em-Bar and T-Bar are a neat and efficient means of terminating roofing and waterproofing membranes at wall abutments.

## Features

- Economical alternative to traditional lead flashing, eliminating the need to cut chases
- Neat unobtrusive appearance
- Choice of GRP or aluminium
- Suitable for all waterproofing types
- Fix through or cover flashing type available
- Simple to handle, work and install
- Full range of fixings and mastic sealants available
- Maintenance free



## Description

Em-Bar and T-Bar are neat and efficient alternatives to lead flashing and require no chases to be cut prior to installation.

Em-Bar is a high quality, durable termination bar manufactured from pultruded glass fibre reinforced polyester. It is UV protected and has a negligible coefficient of thermal expansion.

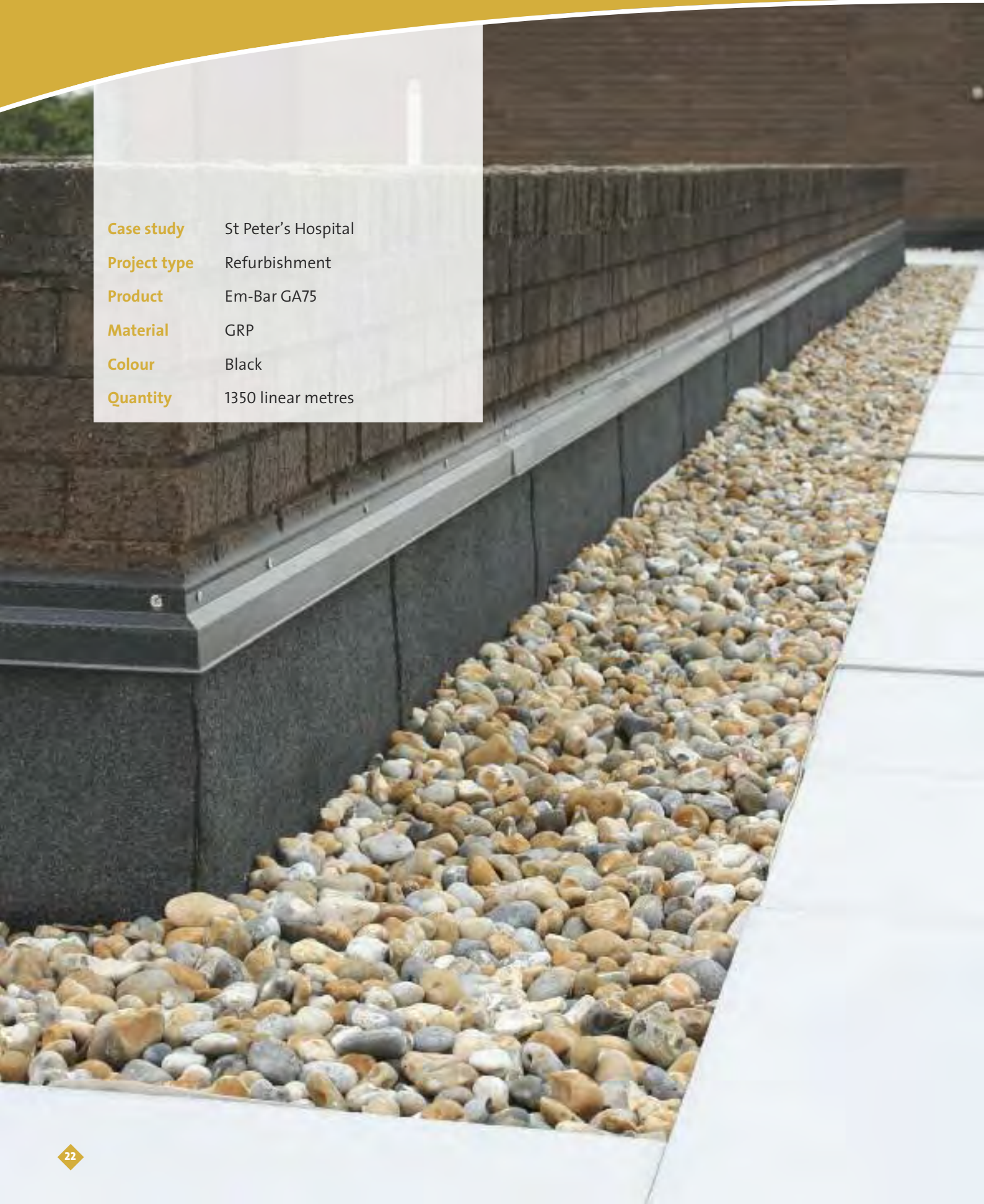
T-Bar is a high quality, economical termination bar manufactured from aluminium alloy BS 1474, Quality 6063/T6 (AlMgSi 0.5 F22).

Em-Bar is available from stock in black, white and grey, and T-Bar in mill finish. Both are available in further colours to special order.

# Em-Bar and T-Bar key features

- 1 Eliminates need to cut chases
- 2 Terminates waterproofing membrane
- 3 Simple and quick to install
- 4 5 standard profiles





**Case study** St Peter's Hospital

**Project type** Refurbishment

**Product** Em-Bar GA75

**Material** GRP

**Colour** Black

**Quantity** 1350 linear metres

# Em-Bar and T-Bar profiles

## Performance

Em-Bars and T-Bars will not rust and are not affected by atmospheric pollution. They are colourfast and once installed are maintenance free.

## Supply

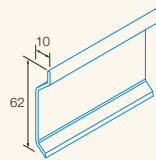
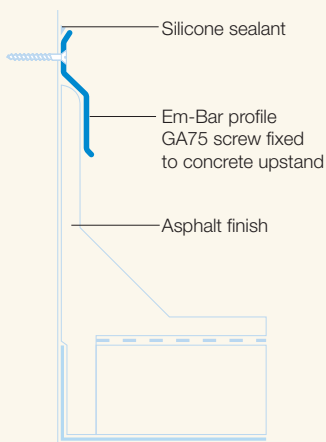
Em-Bar and T-Bar are supplied in 3m lengths. There are 30 lengths per carton.

## Sitework

Em-Bar and T-Bar should be fixed at maximum 300mm centres, using suitable fixings. A comprehensive range of fixings and drill bits is available from stock (refer to page 35 for details on fixings).

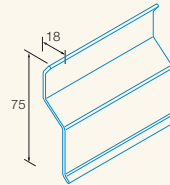


## GRP Em-Bars



**GF62**

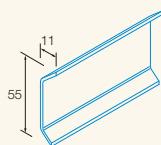
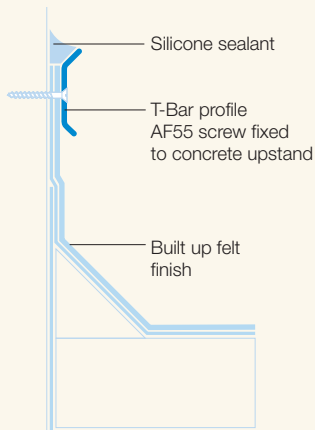
→ For built up felt



**GA75**

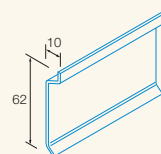
→ For built up felt and mastic asphalt

## Aluminium T-Bars



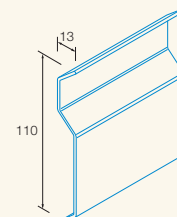
**AF55**

→ For built up felt



**AF62**

→ For built up felt



**AA110**

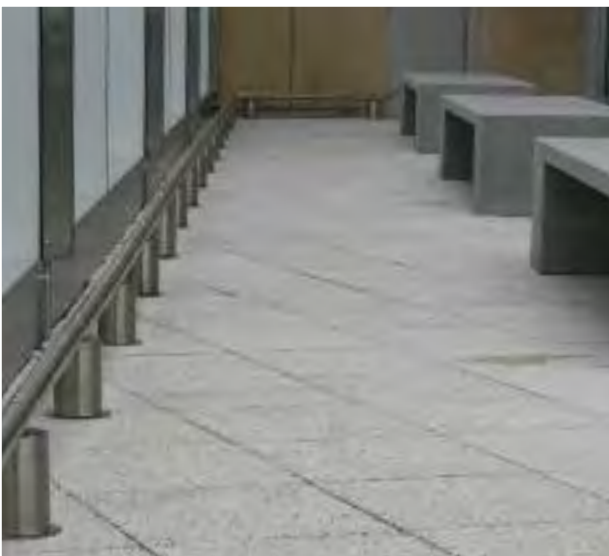
→ For built up felt and mastic asphalt

# Flat roof accessories

High quality comprehensive range of accessories designed to complement any flat roof system.

## Features

- ISO 9002 compliant and offers a 10 year guarantee
- Manufactured in various materials to suit most membrane types
- Simple to handle, work and install
- Available from stock in all materials
- Maintenance free



## Description

Range of accessories designed to service the drainage, ventilation and paving requirements of any flat roof.

Products are available in a wide range of sizes to suit most waterproofing membranes.

EPDM (ethylene propylene diene rubber) products are suitable for use with built-up felts and mastic asphalt finishes.

PVC-u (polyvinyl chloride) products are for use with PVC single ply membranes.

PP (polyolefin polypropylene) products are for use with TPO single ply membranes



# Key features

- 1 Pavings support pads
- 2 Drainage outlets
- 3 Pipe sleeves
- 4 Breather vents



# Paving support pads



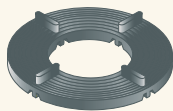
## Description

Paving support pads allow paving to be laid on waterproofing membranes, facilitating the transformation of flat roof areas into patios, terraces, balconies and walkways.

Whitesales paving support pads are simple and easy to install, and incorporate various useful features. For example, raised spacer nibs assist in maintaining a consistent, uniform drainage gap between slabs.

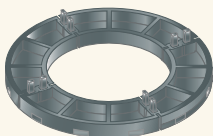
## T-Pad paving support pads

T-Pads are primarily for use on consistent and level flat roof areas. They are easily divided into halves and quarters, for use at edges and corners of paved areas.



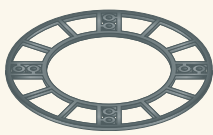
**TP1**  
Rubber

The TP1 paving support pad is manufactured from rubber. Shock absorbent properties make it ideal for use with larger slabs, and softer membranes such as asphalt and single ply.



**TP2**  
Polypropylene

The TP2 paving support pad is manufactured from polypropylene. This economical option can be stacked to allow variable space beneath the paving.

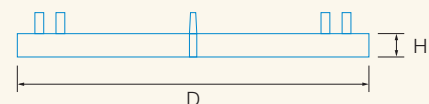


**TP3**

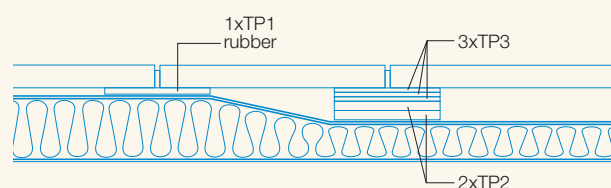
The TP3 shim is compatible with the TP2, to allow fine height adjustment where required.



Product ref	TP1	TP2	TP3
D (mm)	120	150	150
H (mm)	9	15	3



## TP1, TP2 and TP3 typical application



## Em-Pad adjustable paving support pads

Em-Pad adjustable paving support pads are designed to be used where fine adjustment in height is required in order to obtain a level paved area on a roof deck. This is normally the case where the roof has been laid to falls for drainage, or where the deck is uneven.

They are also an effective way of creating a void beneath the slabs large enough to conceal pipes, cables and other utility installations and services. Slabs can be easily removed, allowing maintenance to be carried out.

Em-Pads are suitable for use with almost all conventional paving and decking systems. Certified compression test data is available on request.



### Features

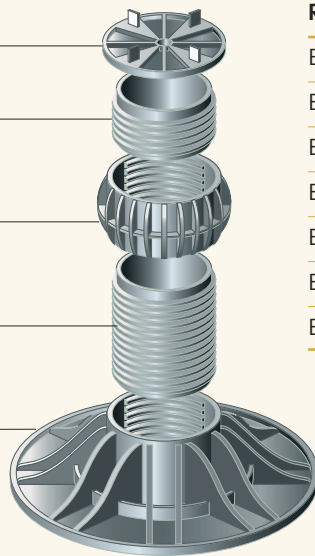
Innovative support head provides up to +/- 5% slope

Extra height support column (EMP5 and EMP6)

Adjustment collar (EMP5 and EMP6)

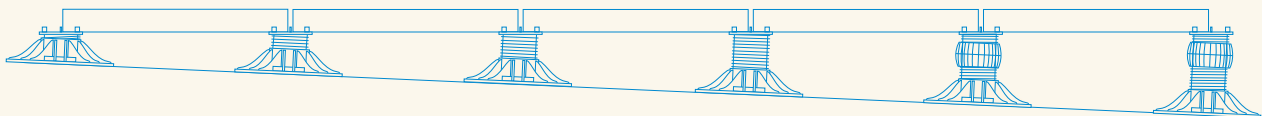
Threaded support column

Broad base diameter ensures optimum stability



Ref. No	Height range	Base diameter
EMP1	35-55mm	200mm
EMP2	55-70mm	200mm
EMP3	70-110mm	230mm
EMP4	110-150mm	230mm
EMP5	150-170mm	230mm
EMP6	170-200mm	230mm
EMPxx	up to 600mm	230mm

## Em-Pad application on sloping roof (5% gradient)



# Drainage outlets

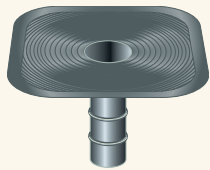
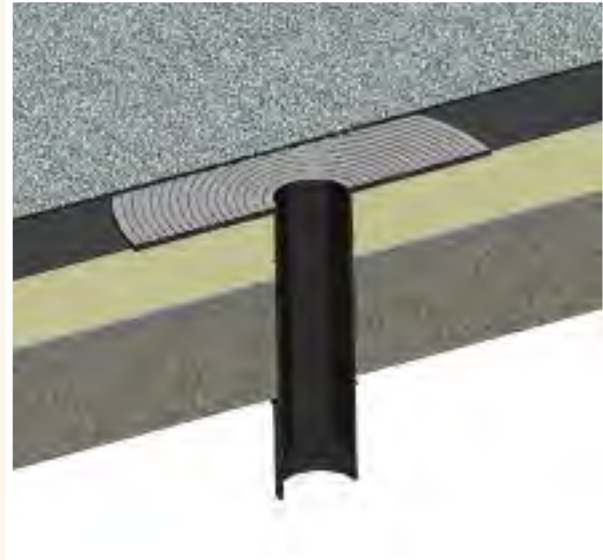
## T-Pipe flat flange outlets

T-Pipe flat flange outlets are versatile flat roof drainage outlets formed in EPDM, PVC-u or PP. They are available in six sizes, are extremely cost-effective, and are ideal for use in new build or refurbishment applications.

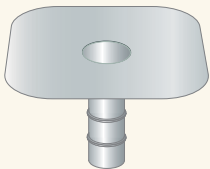
The ribbed push-in downpipe provides a completely leakproof connection to pipework.

These outlets suit all forms of flat roof, and are also ideal for installation in, for example, wide valley gutters. They are highly resistant to ultraviolet, ozone and other atmospheric and chemical agents. They are suitable for use within wide temperature ranges, and remain flexible at very low temperatures.

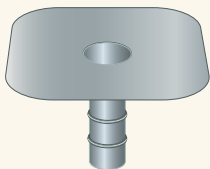
Leaf guards and gravel grates are available.



**EPDM**  
**TPF1-50, TPF2-62.5, TPF2-75, TPF2-100,**  
**TPF2-110, TPF2-150**  
 For built up felt and mastic asphalt



**PVC**  
**TPF2-75, TPF2-100**  
 For PVC membranes



**PP**  
**TPF2-75, TPF2-100**  
 For TPO membranes



**TPF-LG**  
 Leaf/gravel grate



**TPF-MR**  
 Mounting ring

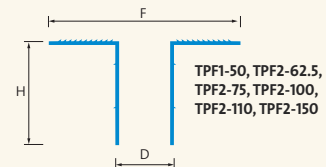


**TPF-MS**  
 Leaf guard support

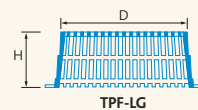


**TPF-BG**  
 Balloon guard

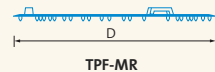
## Sizes



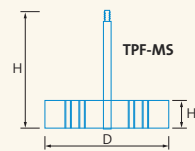
	TPF1 50	TPF2 62.5	TPF2 75	TPF2 100	TPF2 110	TPF2 150
F	245	245	300	325	335	380
H	180	250	250	250	250	250
D	50	54	66	92	100	148



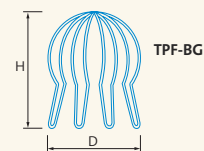
**TPF-LG**



**TPF-MR**

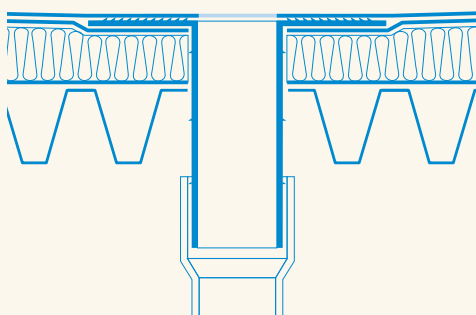


**TPF-MS**



**TPF-BG**

## TPF2-100 typical application in warm roof



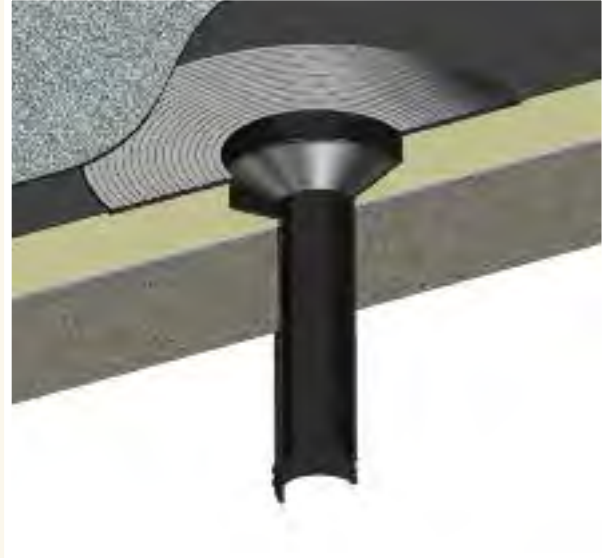
	TPF-LG	TPF-MS	TPF-MR	TPF-BG
H	80	160	N/A	155
D	160	195	220	145
H1	N/A	40	N/A	N/A

## T-Pipe sump flange outlet

T-Pipe sump flange outlets are manufactured to the same technical specification as the flat flange outlet. Available in two sizes, it is suitable for all types of flat roofing, and also for new build or refurbishment applications.

The sump increases the rate of rainwater flow into the drain. The long downpipe is ideal for installation in deep roof slabs.

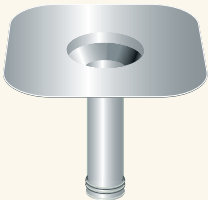
A leaf guard/gravel grate completes the system and incorporates a ribbed collar which sits in the sump to retain the guard.



### EPDM

TPS-75, TPS-100

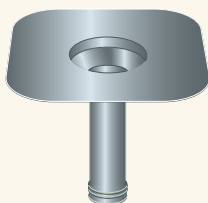
For built up felt and mastic asphalt



### PVC

TPS-75, TPS-100

For PVC membranes



### PP

TPS-75, TPS-100

For TPO membranes

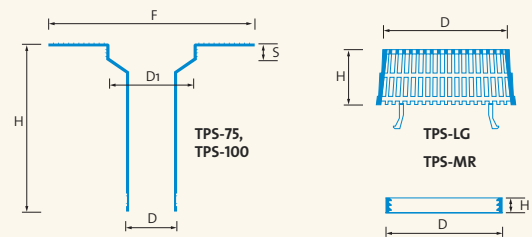


TPS-LG  
Leaf/gravel grate



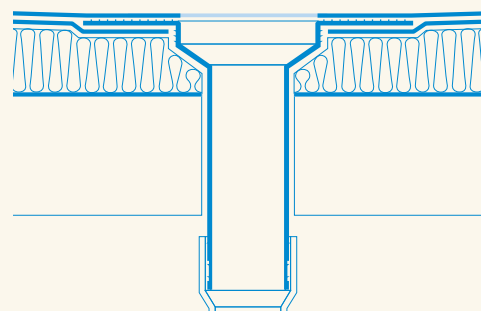
TPS-MR  
Mounting ring

## Sizes



	TPS-75	TPS-100	TPS-LG	TPS-MR
F	400	400	N/A	N/A
H	330	330	80	30
D	75	100	180	170
D1	170	170	N/A	N/A
S	30	30	N/A	N/A

## TPS-100 typical application in warm roof

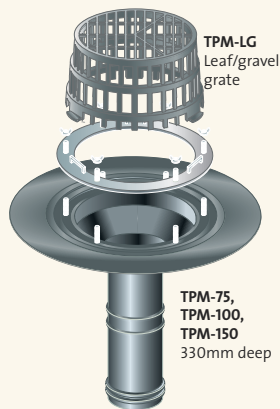
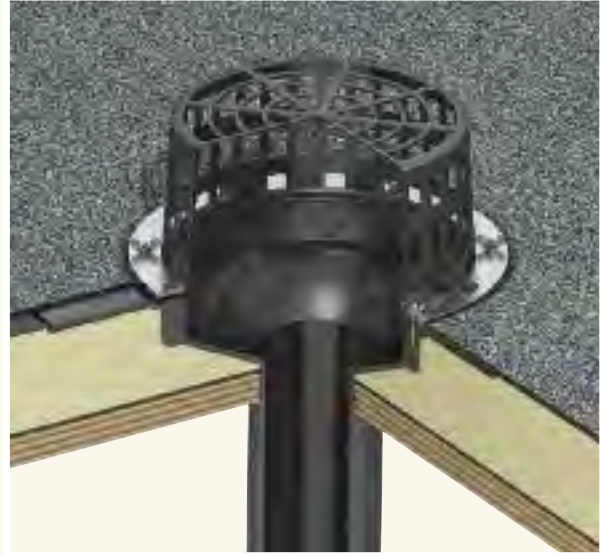


# Drainage outlets

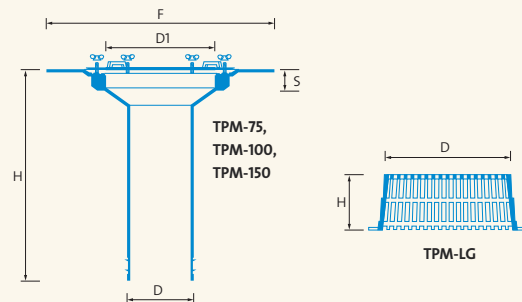
## T-Pipe mechanical fix flange outlet

T-Pipe mechanical fix flange outlets are manufactured to the highest specification. They incorporate a clamping ring that creates a secure, leakproof seal between the roofing membrane and rainwater outlet. The roofing membrane is dressed over the outlet flange and secured by the mechanically fixed clamping ring which engages over threaded stainless steel studs. The leaf guard simply clips onto the clamping ring.

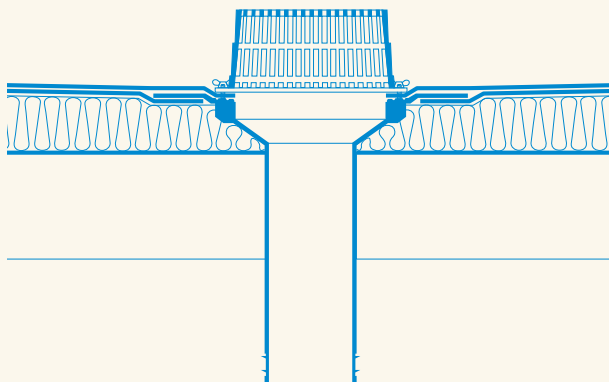
The thermoplastic drain body is highly durable, suitable for all atmospheric conditions, and remains flexible even at low temperatures.



### Sizes



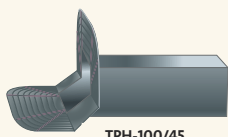
### TPM-100 typical application in warm roof



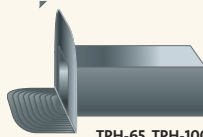
	TPM-75	TPM-100	TPM-150	TPM-LG
F	340	340	340	N/A
H	330	330	330	80
D	75	100	150	160
D1	170	170	170	N/A
S	30	30	30	N/A

## T-Pipe horizontal outlets

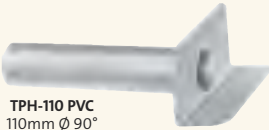
Designed for application at the angle of two intersecting surfaces – for example, where a roof or balcony meets a parapet wall. They can be installed to provide either vertical or horizontal take-off.



**TPH-100/45**  
100x100mm  
45°



**TPH-65, TPH-100**  
65 x 100mm, 100x100mm  
90°



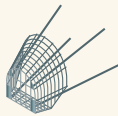
**TPH-110 PVC**  
110mm Ø 90°



**TPHC-110**  
90° connector for  
110mm Ø to 110mm Ø



**TPH-LG/65**  
Leaf/gravel grate  
for 65x100mm



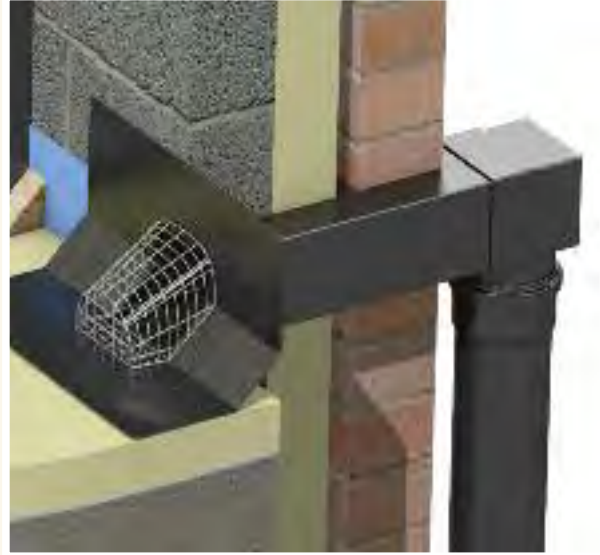
**TPH-LG/100-110**  
Leaf/gravel grate  
for 100x100mm/  
110mm Ø



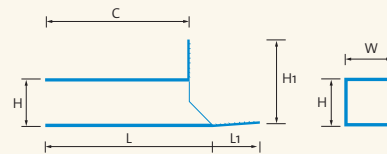
**TPHC-100**  
90° connector  
100x100mm  
to 100 Ø



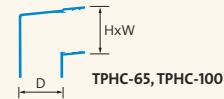
**TPHC-65**  
90° connector  
65x100mm  
to 100 Ø



### Sizes

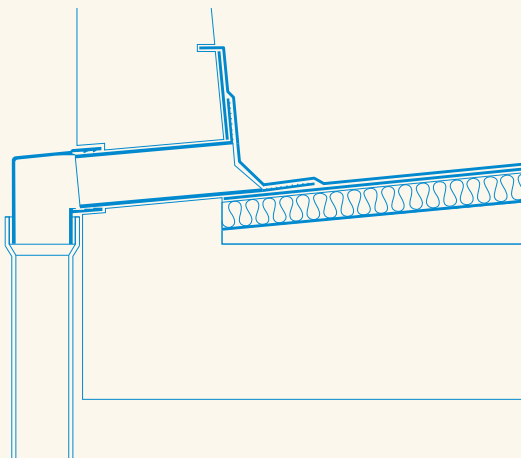


**TPH-65, TPH-100, TPH-100/45**



**TPHC-65, TPHC-100**

### TPH-100 typical application through parapet wall



	TPH 65	TPH 100	TPH 100/45	TPH 110	TPHC 65	TPHC 100	TPHC 110
H	65	100	100	110Ø	N/A	N/A	N/A
W	97	100	100	110Ø	N/A	N/A	N/A
H1	140	180	180	170	N/A	N/A	N/A
L	425	425	345	500	N/A	N/A	N/A
L1	120	120	100	120	N/A	N/A	N/A
C	425	425	300	500	N/A	N/A	N/A
HxW	N/A	N/A	N/A	N/A	65x100	100x100	100Ø
D	N/A	N/A	N/A	N/A	100Ø	100Ø	100Ø

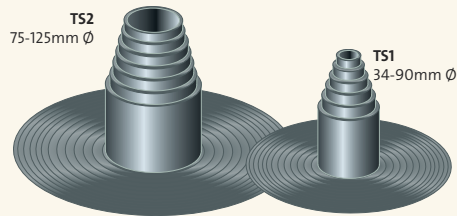
# Pipe sleeves

## T-Sleeve pipe sleeves

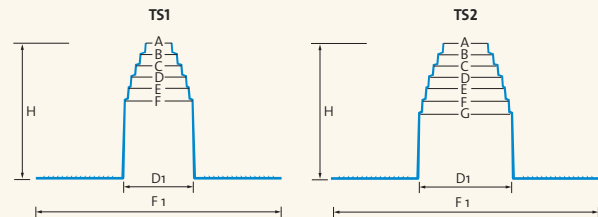
T-Sleeve pipe sleeves are used where pipework passes through the roof structure. They are a simple and effective means of bonding the pipe to the membrane.

The roofing membrane is dressed over the circular flange of the pipe sleeve. A robust metal fastening device is then tightened over the pipe sleeve, forming a full watertight junction.

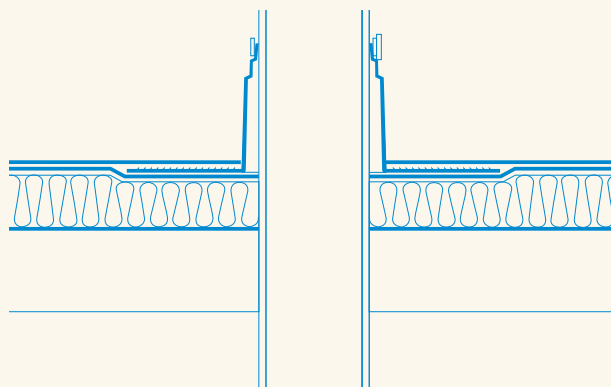
T-Sleeve pipes are available manufactured from EPDM, PVC-u and PP.



### Sizes



### TS2 typical application in warm roof



	TS1	TS2
F1	340	365
H	180	180
D1	93	127
A	34	75
B	50	80
C	60	90
D	75	100
E	80	110
F	90	115
G	N/A	125



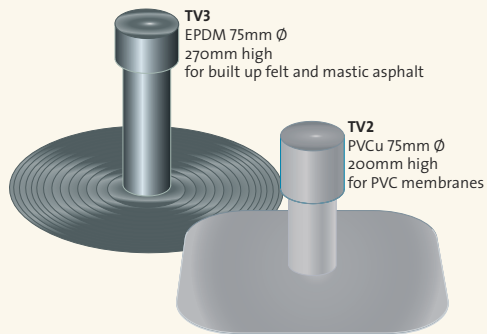
# Breather vents

## T-Vent breather vents

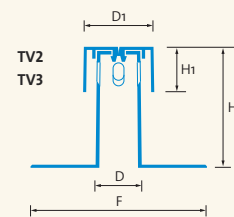
The T-Vent range of breather vents is available in either EPDM or PVC-u.

T-Vent breather vents are designed to allow water vapour to escape from the structure. Vents are normally required when roofing membranes are laid on concrete screeds in which moisture may be retained from the construction process. The vents release vapour pressure, thus avoiding blistering of the membrane.

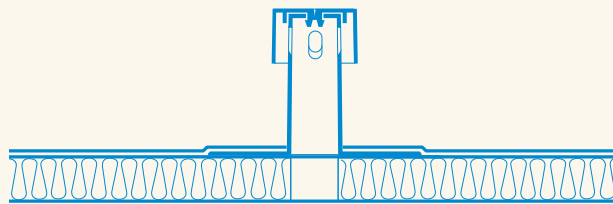
The roofing membrane is dressed over the circular flange of the T-Vent, forming a watertight seal.



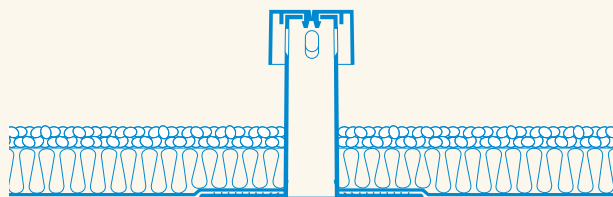
### Sizes



### T-Vent TV2 in warm roof



### T-Vent TV3 in inverted roof



	TV2	TV3
F	300x300	300Ø
H	200	270
D	75	75
H1	80	80
D1	110	110



**Case study** Union Square Shopping Centre  
**Project type** New Build  
**Product** T-Pad TP2  
**Material** Polypropylene  
**Quantity** 14,500 pads

# Fixings and sealant

## Description

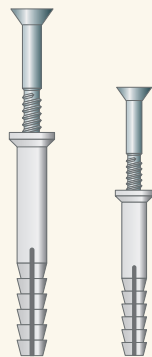
Whitesales offers a range of fixing and sealant to complement the Em-Trim, T-Trim, Em-Bar and T-Bar ranges.

This convenient option allows all fixings and sealant to be delivered on the same consignment as the trim or termination bar, saving time and improving efficiency. Whitesales will also recommend the accurate quantities of fixings and sealant required for any given quantity of trim, which eliminates wastage.



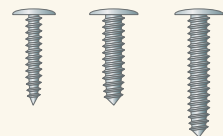
## Hammer fixings

Hammer fixings are for use when fixing into concrete. This is often a concrete roof slab in the case of Em-Trim and T-Trim and a concrete upstand, wall or parapet in the case of Em-Bar and T-Bar.



## Self tapping screws

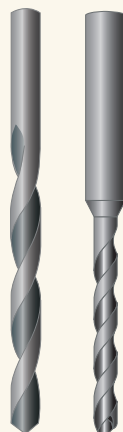
Self tapping screws are for use when fixing into timber or metal decks.



## Drill bits

SDS hammer drill bits are for drilling pilot holes into concrete surfaces.

HSS drill bits are for drilling pilot holes in the trim and termination bar and in timber and metal decks.



## Silicone sealant

A premium quality butyl based sealant and adhesive that provides instant permanent weatherproofing.

Adheres to all trims and termination bars, as well as most waterproofing types.



# Sitework, health and safety



Issued under the Health & Safety at Work Act 1974 (Section 6) and the control substances hazardous to Health Regulations 1988.

## Storage

The product is supplied in cardboard cartons; care should be taken to ensure that these are stored properly to avoid damage to the contents. Heavy objects should not be placed on top as this can lead to damage or distortion.

The cardboard packaging should be recycled via an approved waste recycling station.

## Handling and use

Care should be taken when the product is being handled, gloves should be worn to avoid abrasions and irritation from any aluminium or glass fibre particles.

If the product is to be cut then a full risk assessment of the circumstances it is being cut in needs to be undertaken.

## First aid

Eyes – wash well with copious amounts of fresh water.

Skin – wash well with soap and water.

If symptoms continue, seek medical advice.

## Waste disposal

Waste products should be consigned in accordance with The Environmental Protection Act (1990) Section 34 (Duty of Care) Special Waste Regulations 1996.

All waste products require to be properly consigned in accordance with the Environmental legislation, if in any doubt you should contact your local office of the Environment Agency in England or the Scottish Environmental Protection Agency in Scotland.



**Case study** Sharpes Cope Childrens Centre  
**Project type** Refurbishment  
**Products** Em-Trim F3, Em-Bar GF62  
**Material** GRP  
**Colour** Black  
**Quantity** 510 linear metres  
**Other** Em-Dome HeatReflect rooflights



# Support services



## Technical services

Advice and technical assistance on the application and specification of all rooflights and accessories is readily available from Whitesales.

Full technical advice is available, including technical specification writing, site surveys, condition reports and budget costings or fully detailed quotations.

A comprehensive library of product data sheets and CAD drawings is available along with NBS specifications.

For projects where we have undertaken a rooflight site survey we offer a CAD roof plan drawing service.

The Whitesales Customer Service Team works to respond immediately to customer request.

For more information, please contact us on:

Tel [01483 271371](tel:01483271371)

Fax [01483 271771](tel:01483271771)

E-mail [sales@whitesales.co.uk](mailto:sales@whitesales.co.uk)

[www.whitesales.co.uk](http://www.whitesales.co.uk)

## Nationwide coverage and next day delivery

Whitesales offers next day delivery on their own transport or overnight carrier service nationwide, including deliveries to site, to contractors and merchants.

With depots strategically located in England and Scotland, the service driven team is readily available, from your initial enquiry through to after sales support.

Project and larger consignments are delivered on Whitesales' own transport and delivery periods are determined on a per order basis.

## Guarantees

All Whitesales continuous rooflights, when installed on Em-Curbs, Em-Collars or T-Collars and in accordance with manufacturer's instructions, are guaranteed against the effects of defective design, materials or construction for a period of ten years from date of supply by Whitesales. Furthermore, the glazing element of all Whitesales continuous rooflights is warranted against discolouration for ten years subject to certain conditions. A 20 year 'special projects' guarantee is also available. Further details available on request. Whitesales continuous rooflights have an expected life of at least 25 years which would normally exceed the life of the roof waterproofing materials.

All other products (e.g. T-Collars, Em-Curbs, ventilation systems, electrical components and other accessories) are guaranteed for 12 months from date of supply by Whitesales.

Edge trims, termination bars and flat roof accessories are guaranteed for 10 years from date of supply by Whitesales.

All guarantees and warranties are subject to Whitesales Terms and Conditions, available on request.

Whitesales holds Professional Indemnity Insurance, covering our designs and recommendations. Full details available on request.

# Environment



## Our responsibility

The environment and the effect we have upon it is one of the key issues facing the construction industry.

There is a growing demand for construction solutions which minimise the consumption and use of natural resources. Whitesales recognises the impact that we can have on the environment and is managing activities to maximise our contribution towards the protection of the environment and preservation of natural resources. This includes constant reviews of our manufacturing operations and distribution chain.

## Sustainability

Sustainable developments ensure a better quality of life for everyone, now and for future generations. To be environmentally sustainable a product must be manufactured and used in a way that minimises its impact on the environment.

Sustainability covers all aspects of a product's impact on the environment. This includes original source of raw materials, the manufacturing process, transportation, construction, life span of the product and eventual disposal and re-use of the material.

## Environmental policy

In maintaining and developing our business, products and services, we will pay careful attention to the following measures:

- ◆ Comply immediately with all applicable laws and regulations concerning the environment.
- ◆ Develop manufacturing processes and operational procedures that minimise, as far as practically possible, pollution risks to the environment.
- ◆ Reduce waste generated by our activities and encourage energy conservation, recycling and re-use.
- ◆ Provide training and support to employees to enable them to maximise their contribution towards the protection of the environment.
- ◆ Encourage suppliers, contractors and customers to share in our aims to promote good environmental management.



Whitesales®  
Rooflights & more...

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