

TOPWET



TOPWET[®]

FLAT ROOF
DRAINAGE SYSTEMS

TOPSAFE[®]

FALL PROTECTION
SAFETY SYSTEMS

CATALOGUE

Company data

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TOPSAFE Customer infoline

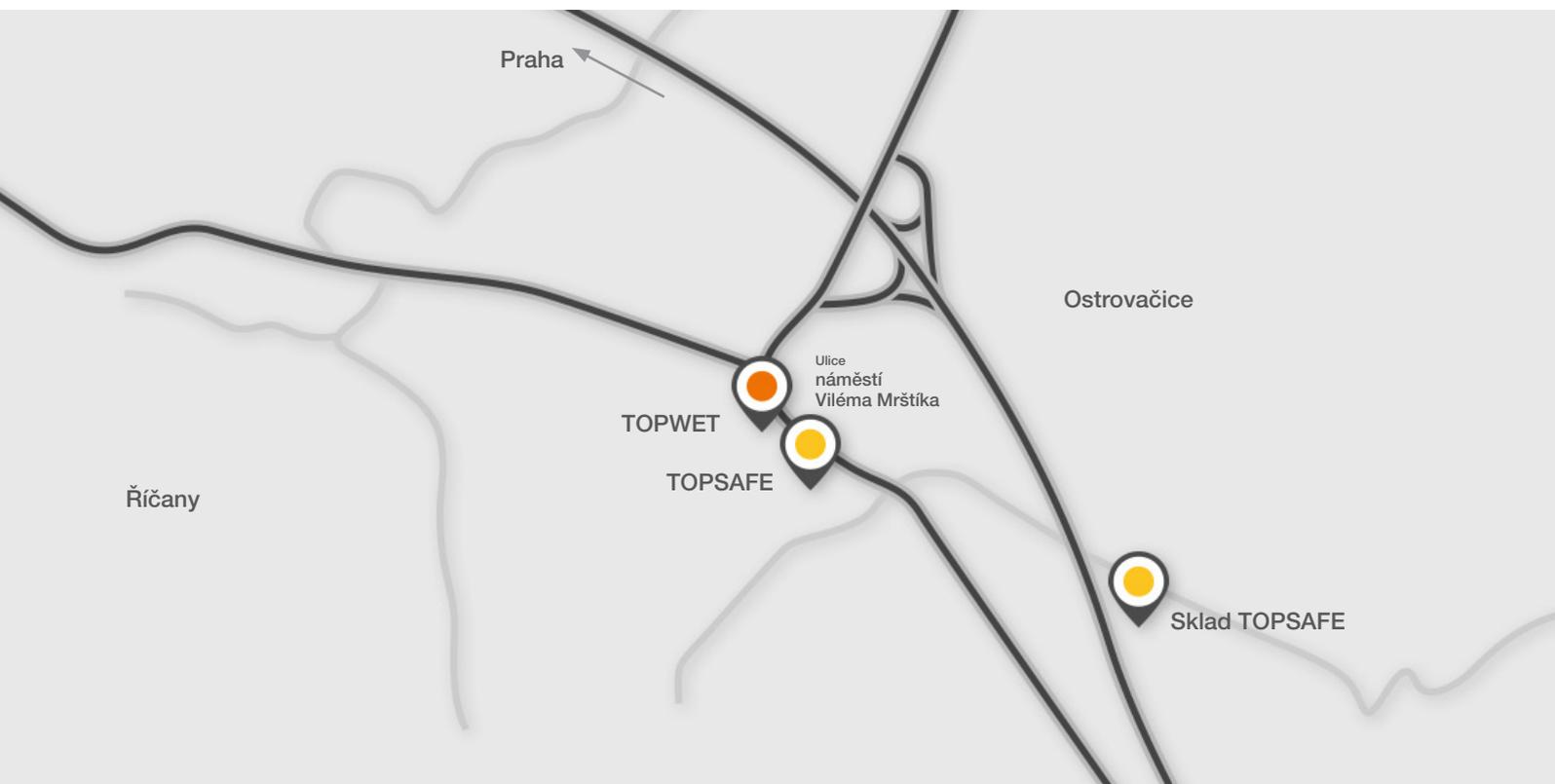
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TOPWET[®] | SYSTEMS FOR DRAINAGE OF FLAT ROOFS

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TOPSAFE[®] | FALL PROTECTION SAFETY SYSTEMS

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About



Company history

A purely Czech company TOPWET s.r.o. is part of the PF Group, which has been manufacturing and supplying products to the construction industry since 1999. In 2005, an independent company TOPWET s.r.o. was established, containing the TOPWET division providing drainage for flat roofs and the TOPSAFE division providing protection systems against falls from a height.



Product certification

All our products are certified by independent European organizations and thus meet the demanding conditions for certification in the LGA testing laboratory and comply with applicable European standards.



Technical support

Due to the nature of our products, we most often provide technical advice to customers in the design and implementation phase as part of providing quality client service. We provide service to implementation companies and designers.



Customer service

Client care is our alpha omega. We build our relationship with the customer on intensive contact and try to adapt to his requirements as much as possible.



Quality and development

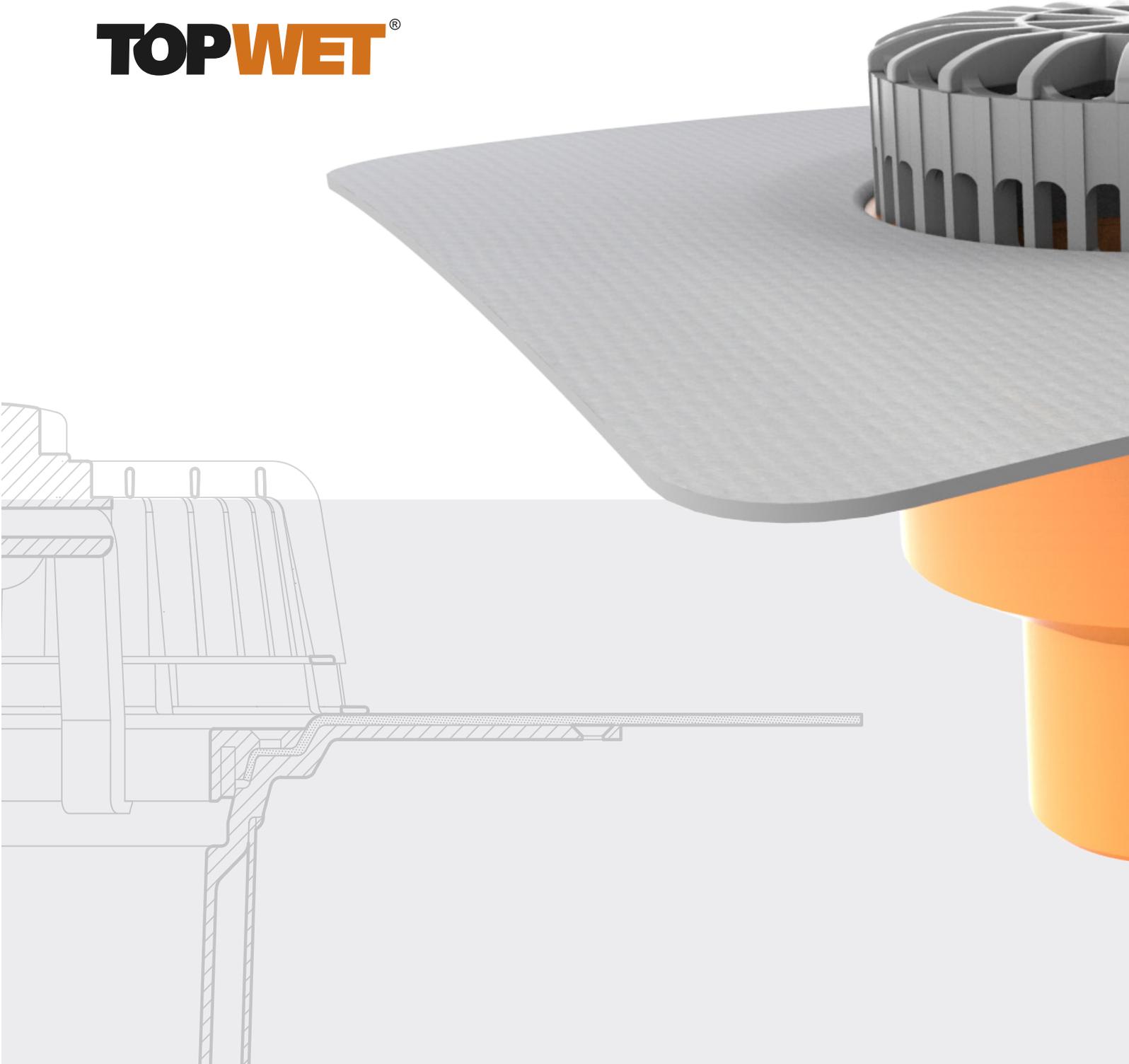
We use the latest technologies in the development of our products. First, we produce protoTypes to assess shape, function, ergonomics or to verify technological limitations to ensure high quality and long-term sustainability of products.



Goods delivery

Fast and reliable delivery of goods to our customers is one of our priorities. We guarantee the ordering of our products directly to the address of your building with delivery within two days of ordering.

TOPWET[®]



Technical information

Technical drawings and examples of drainage

Technical drawings are prepared in scale including the corresponding dimensions. The examples of drainage include the currently most frequently used ways of drainage and they are updated continuously.



Possibility of simple printing and viewing



Possibility to place items into their own details or to use sample details

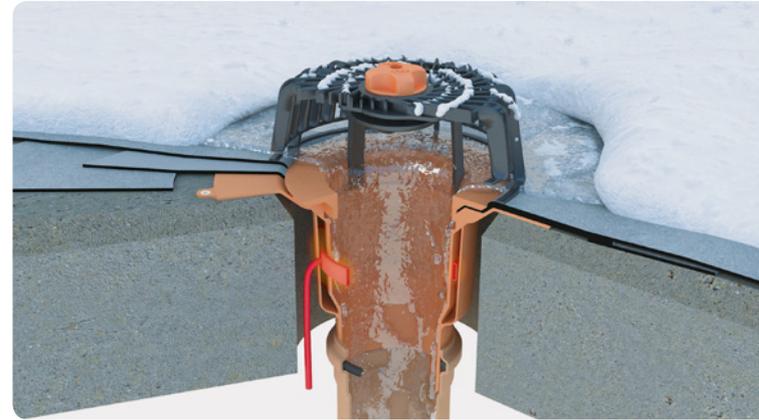


Possibility to download plugin for roof and terrace elements

Self-regulating heating

Drainage of flat roofs

Self-regulating electric heating of outlets and gutter overflows ensures reliable drainage during the winter season. The system works by resistance change to semiconductors due to ambient temperature changes. During the winter periods outlets are at risk of blocking due to ice or snow build up. The heating element is designed to protect not only the orifice of the outlet but its immediate surroundings as well.



Advantages of self-regulation heating

- Reliable drainage also in winter season
- Voltage 230 V / 50 Hz – without necessity of a transformer or a control unit
- Option of connection to heating of gutters, downpipes, entries etc.
- Simple connection via a switch or a thermostat
- Electric energy saving

Connection description

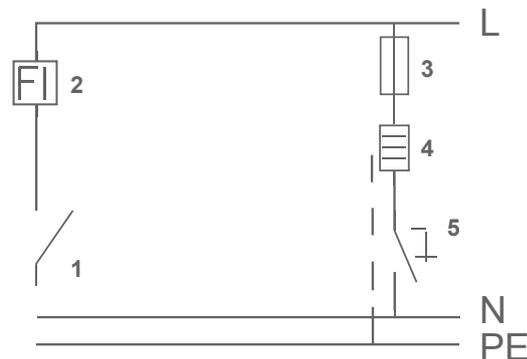
- Connection is performed in an electric box under roof structure
- Length of the outlet supply cable is 1.5 m. Cable CYKY 3 x 1.5 mm
- Wire connection: yellow-green/protective, black/phase, blue/neutral
- AC voltage: 230 V, 50 Hz
- Input power: 10W at 20°C, 14W at 0°C, 18W at -20°C (for each product different)
- Max. current surge: 400mA (for each product different)
- Protection class: IP 67

Basic options of connecting of heated outlets

- Without possibility of switching off (energy consumption also in summer season – not recommended)
- Mechanical switch (manipulation required), or time socket
- Outer thermostat with integrated thermal sensor
- Thermostat to a switchboard including thermal sensor for measuring of outer temperature
- Thermostat to a switchboard including thermal and humidity sensor for measuring the outside temperature

Wiring diagram

- | | | | |
|---|-------------------------|----|---------------------------|
| 1 | main switch | 5 | thermostat or switch |
| 2 | residual current device | L | phase (black) |
| 3 | circuit breaker | N | neutral (blue) |
| 4 | roof outlet | PE | protective (yellow-green) |

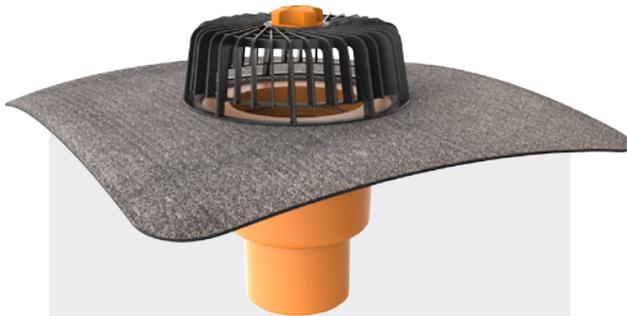


Roof Waterproofing Sleeve

TOPWET company supplies standardly all own products with integrated bitumen and PVC sleeve waterproof to ensure 100% reliable waterproof connection.

- ✓ 100% waterproof
- ✓ Without screw flanges
- ✓ Fully compatible with roof waterproofing system

- A list of foils in stock can be found here:



BIT

Supplied with a UV stable SBS bitumen sleeve for direct welding to the main waterproofing layer.



PVC

Supplied with a 1.5mm mPVC sleeve
All outlets can be manufactured with a specific manufacturers membrane (subject to additional cost).

Brands we cooperate with:

Axter Bauder BMIGroup Carlisle Fatra FDT Elevate Mapei Protan Schedetal Sika Soprema VAE

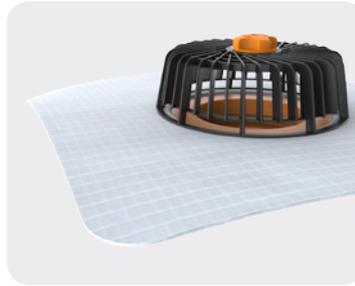
Custom made sleeves:

Material bases:



TPO (FPO)

Thermoplastic (flexible) polyolefin.
A minimum thickness of 1.5mm, ideally in a homogenous version, is required. We currently produce with brands from previous page.



PE

Polyethylene is a vapour resistant membrane that is used mostly on roofs with a light structure.



STE

A sleeve for connection to liquid waterproofing applications.
Customer may supply their own sleeve or we will provide a special flexible sleeve with double sided integrated layer for connection to the liquid waterproofing.



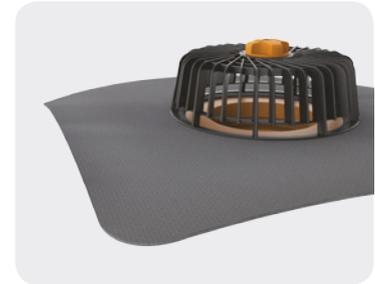
EPDM

A membrane of synthetic rubber. We currently produce with brands from previous page



ECB

Foil with a low content of asphalt.
A mixture of polymers with oil asphalts. Tolerant to polystyrene foam. Compatible with bitumen insulation.



EVA

Combination of EVA and PVC sleeve, it does not contain any potentially liquid plasticizers. Tolerant to polystyrene foam. Compatible with bitumen insulation.

Combination options of products and accessories

		TWN Roof outlet attachments	TWTN Outlet attachments	TWN OVER Safety overflow attachment	TW RETN Retention attachments	TWN TI Heat insulating element
Roof outlets p.12		✓		✓	✓	
Roof outlet extension p.14				✓	✓	✓
Terrace outlets p.20			✓ only vertical outlet			
Terrace outlet extension p.14						
Refurbishment outlets p.24				✓	✓	
Refurbishment outlets BZ p.24						
Extended outlets p.26				✓	✓	
Extended outlets BZ p.26						
Balcony outlets TWB p.28		TWB balcony outlets have their own complete line of accessories, for more information see the catalogue page 30				

TWN SAN TES
Refurbishment seal



TWZU KL
Odour trap



TWZU
Water odour trap



TWOK
Leaf guard for gravel



TW TER
Terrace attachment



TW PLK
Walkable protective leaf guard



TW ODK
Drainage ring



TWZ
Inspection chamber for green roofs



Accessories cannot be combined with drains in variant XL

✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓
✓			✓	✓	✓	✓	✓
							✓
✓			✓	✓	✓	✓	✓
							✓

Roof outlets

Drainage of flat roofs



Basic type – thermally insulated vertical roof outlet

- Double-wall structure of polyamide PA6
- Integrated sleeve of waterproof membrane or vapour barrier
- Protective leaf guard included each package
- Direct connection to vertical roof downpipes of DN 70, DN 100, DN 125 and DN 150 diameters

Complementary type – horizontal roof outlet

- Direct connection to horizontal pipes of DN 70, DN 100 and DN 125 diameters
- Reduced construction height for warm roofs

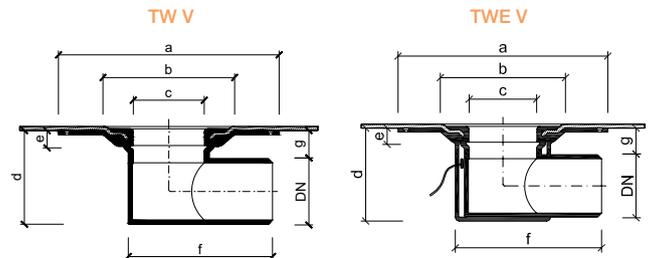
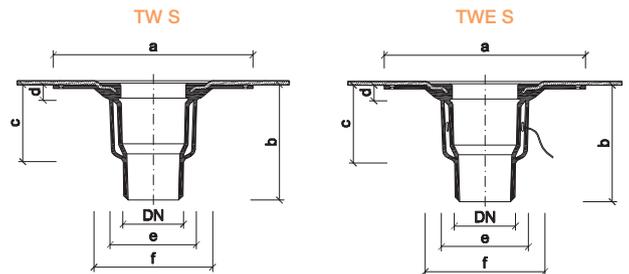
Dimensions of vertical roof outlets

Type	DN	Dimensions [mm]					
		a	b	c	d	e	f
TW(E) 75 S	70	330	210	145	25	160	200
TW(E) 110 S	100	330	210	135	25	160	200
TW(E) 125 S	125	330	210	135	25	160	200
TW(E) 160 S	150	342	210	135	25	190	265

Dimensions of horizontal roof outlets

Type	DN	Dimensions [mm]						
		a	b	c	d	e	f	g
TW(E) 75 V	70	330	200	130	121	36	224 (238*)	46
TW(E) 110 V	100	330	200	130	157	25	238 (250*)	47
TW(E) 125 V	125	330	200	130	165	25	239 (251*)	40

* dimensions of heated version



TOPWET roof outlets with integrated bitumen sleeve

BIT

	Version	Type	Dimensions
	TOPWET roof outlet with an integrated sleeve of modified bitumen strip, vertical version, heat-insulated – double-wall with a leaf guard.	TW 75 S BIT TW 110 S BIT TW 125 S BIT TW 160 S XL BIT	DN 70 DN 100 DN 125 DN 150
	TOPWET roof outlet with an integrated sleeve of modified bitumen strip, vertical version, heat-insulated – double-wall with a leaf guard, heated with 230 V, with a connecting cable.	TWE 75 S BIT TWE 110 S BIT TWE 125 S BIT TWE 160 S XL BIT	DN 70 DN 100 DN 125 DN 150
	TOPWET roof outlet with an integrated sleeve of modified bitumen strip, horizontal version, with a leaf guard.	TW 75 V BIT TW 110 V BIT TW 125 V BIT	DN 70 DN 100 DN 125
	TOPWET roof outlet with an integrated sleeve of modified bitumen strip, horizontal version, with a leaf guard, heated with 230 V, with a connecting cable.	TWE 75 V BIT TWE 110 V BIT TWE 125 V BIT	DN 70 DN 100 DN 125

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

TOPWET roof outlets with integrated PVC sleeve

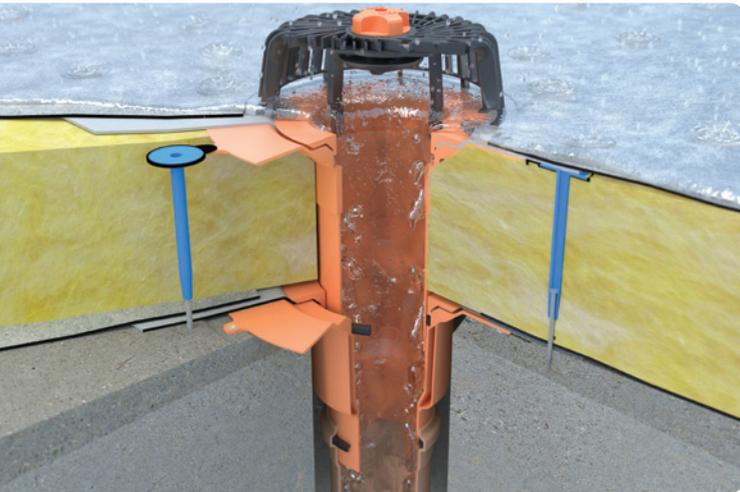
PVC

	Version	Type	Dimensions
	TOPWET roof outlet with an integrated sleeve of waterproofing membrane based on PVC, vertical version, heat-insulated – double-wall with a leaf guard.	TW 75 S PVC TW 110 S PVC TW 125 S PVC TW 160 S XL PVC	DN 70 DN 100 DN 125 DN 150
	TOPWET roof outlet with an integrated sleeve of waterproofing membrane based on PVC, vertical version, heat-insulated – double-wall with a leaf guard, heated with 230 V, with a connecting cable.	TWE 75 S PVC TWE 110 S PVC TWE 125 S PVC TWE 160 S XL PVC	DN 70 DN 100 DN 125 DN 150
	TOPWET roof outlet with an integrated sleeve of waterproofing membrane based on PVC, horizontal version, with a leaf guard.	TW 75 V PVC TW 110 V PVC TW 125 V PVC	DN 70 DN 100 DN 125
	TOPWET roof outlet with an integrated sleeve of waterproofing membrane based on PVC, horizontal version, with a leaf guard, heated with 230 V, with a connecting cable.	TWE 75 V PVC TWE 110 V PVC TWE 125 V PVC	DN 70 DN 100 DN 125

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

Extensions for outlets and other accessories

Drainage of warm roofs



Basic type – universal performance

- Applicable for roof outlets of DN 70, DN 100 and DN 125 diameters, outlets vertical and horizontal including heated ones
- Height depending on insulation thickness ranging from 40 mm up to 500 mm
- Suitable for passive houses with an insulation thickness up to 500 mm
- Sealing ring protecting against raised water included
- Heated version on request

Complementary type XL

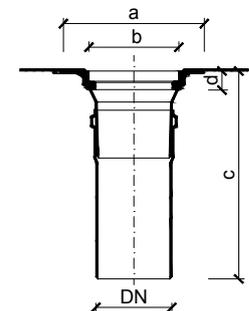
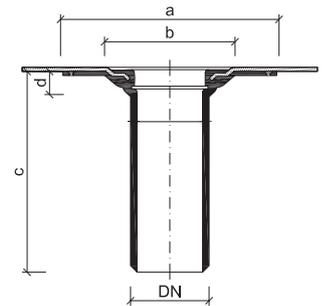
- Only for vertical roof outlets of DN 150 diameter including heated ones

Dimensions of extensions for roof outlets

Type	for roof outlets TW / TWE	Dimensions [mm]				
		a	b	c	d	Insulation thickness
TWN v220	75, 110, 125	330	200	290	40	40–220
TWN v300	75, 110, 125	330	200	370	40	40–300
TWN v500	75, 110, 125	330	200	540	40	40–500
TWNE v500	75, 110, 125	330	200	540	100	100–500
TWN v300 XL	160	342	265	330	120	120–300
TWN v500 XL	160	342	265	540	120	120–500
TWNE v500 XL	160	342	265	540	120	120–500

Dimensions of extensions for terrace outlets

Type	for roof outlets TW / TWE	Dimensions [mm]				
		a	b	c	d	Insulation thickness
TWTN v300	75, 110, 125	204	130	370	20	20–300

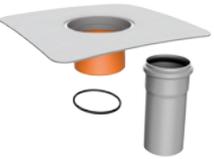


Extensions for thermal insulation for TOPWET roof outlets

	Version	Type	Insulation thickness
	<p>TOPWET attachment with an integrated sleeve of modified bitumen for vertical and horizontal TOPWET roof outlets of DN 70, 100 and 125, with a sealing ring, without a leaf guard (XL version only for outlets of DN 150). TWNE = heated performance, suitable for an insulation thickness over 300 mm.</p>	<p>TWN v220 BIT TWN v300 BIT TWN v500 BIT TWNE v500 BIT TWNE v500 XL BIT TWN v300 XL BIT TWN v500 XL BIT</p>	<p>40–220 mm 40–300 mm 40–500 mm 100–500 mm 120–500 mm 120–300 mm 120–500 mm</p>
	<p>TOPWET extension with an integrated sleeve of PVC waterproofing membrane for vertical and horizontal TOPWET roof outlets of DN 70, 100 and 125, with a sealing ring, without a leaf guard (XL version only for outlets of DN 150). TWNE = heated performance, suitable for an insulation thickness over 300 mm.</p>	<p>TWN v220 PVC TWN v300 PVC TWN v500 PVC TWNE v500 PVC TWNE v500 XL PVC TWN v300 XL PVC TWN v500 XL PVC</p>	<p>40–220 mm 40–300 mm 40–500 mm 100–500 mm 120–500 mm 120–300 mm 120–500 mm</p>

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

Extensions for thermal insulation for TOPWET terrace outlets

	Version	Type	Insulation thickness
	<p>TOPWET extension with an integrated sleeve of modified bitumen for vertical TOPWET terrace outlets of DN 70, 100 and 125, with a sealing ring. Attachment is without leafguard, with extension pipe.</p>	<p>TWTN v300 BIT</p>	<p>20–300 mm</p>
	<p>TOPWET extension with an integrated sleeve of PVC waterproofing membrane for vertical TOPWET terrace outlets of DN 70, 100 and 125, with a sealing ring. Attachment is without leafguard, with extension pipe.</p>	<p>TWTN v300 PVC</p>	<p>20–300 mm</p>

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

Extensions for refurbishment outlets and other accessories

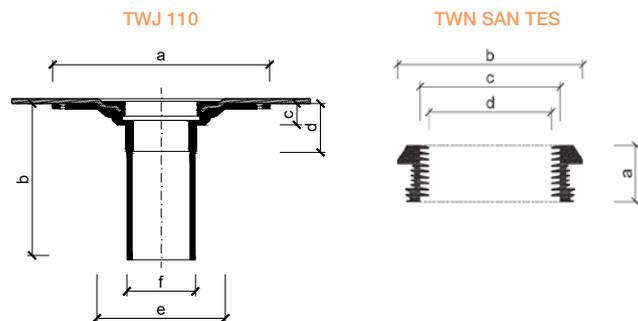
Two-stage refurbishment seal



- Special rubber gasket
- The seal makes it possible to use two stages drainage solutions for roof refurbishment
- Applicability for refurbishment and single-wall outlets diameter DN 50 - 125
- As the second stage, we recommend using TWJ 110 for the thermal insulation thickness from 55 mm
- Reliable connection and sealing of the upper and lower part
- TWN SAN TES seal and TWJ 110 extension are two separate items, that must be ordered separately

Dimension of extension and seal

Type	Dimensions [mm]					
	a	b	c	d	e	f
TWJ 110	330	400	40 (80*)	90	200	110
TWN SAN TES	47	155	118	103		



* Why must the upper part (extension) always be 110 mm in size?

It is about compatibility with TWN SAN TES rubber seal. This connection must be tight to prevent leakage into thermal insulation. The appropriate dimension of the outlet (lower part) is decided only when connecting to the existing downpipe.

Extensions for refurbishment outlets and other accessories

Accessories



Two-stage refurbishment seal TOPWET for connecting the second stage to refurbishment outlets and single-walled extended outlets. Can be combined with diameters DN 50-DN 125.

TWN SAN TES

Outer / inner diameter

130 mm / 110 mm



Scheme of assembly of a two-stage refurbishment outlet

- 1 Roof outlet TWJ 110 with leaf guard
- 2 Roof outlet TW, TWJ or TW SAN, DN 50-125
- 3 Universal refurbishment sealing TWN SAN TES

Electronic thermostats to control the heated roof outlets TOPWET and heating kit

Accessories



Universal external thermostat for controlling TOPWET heated roof outlets with an integrated thermal sensor for external temperature measurement. It is possible to connect up to 16 outlets to one thermostat.

TWT 524

Outer / inner diameter

70x70 mm



Universal internal thermostat for controlling TOPWET heated roof outlets connected to switchboard boxes. Complete with a 4m cable and a thermal sensor for external temperature measurement. It is possible to connect up to 16 outlets to one thermostat.

TWT 3528

90x50 mm



Kit includes a self regulating AC 230V, 50Hz heat cable (cable heat section 0,4 m or 0,6 m long, inlet cable length 1.5m). Complete with two plastic mounting straps to fix the cable to the pipe

TW SE
TW SE XL

0,4 / 1,5 m
0,6 / 1,5 m

Universal single-wall outlet

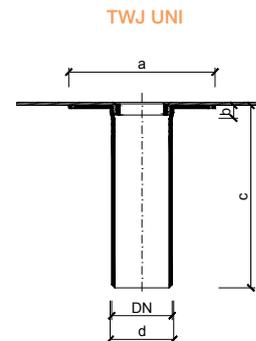
Complicated drainage places



- Base plate can be bent directly on site
- Wide range of useage, especially near attics and narrow roof gutters
- Suitable for renovations
- Standard length 400 mm, up to 1000 mm on request
- Easy and fast installation
- Direct connection to pipes DN 50, 70, 90, 100 and 125
- Flexible stainless steel base plate, plastic pipe
- Necessary to cut leaf guard, suitable to combine with attica shafts

Universal single-wall outlet with flexible base plate

Type	DN	Dimensions [mm]			
		a	b	c	d
TWJ UNI 50	50	245	20	400	58
TWJ UNI 75	70	245	20	400	81
TWJ UNI 90	90	245	20	400	96
TWJ UNI 110	100	245	20	400	116
TWJ UNI 125	125	245	20	400	131



* Differences between TWJ UNI and TWJ BZ?

Outlets TWJ UNI and TWJ BZ have same shape and dimension, differences at material of base plate.

The TWJ BZ outlets have a plastic base, the TWJ UNI outlets have a stainless steel flexible base that allows the drains to be placed even in difficult available places.

Bending can be done directly on the construction site, which significantly saves time and costs of customizing other outlets.

Universal single - wall roof outlet

Accessories



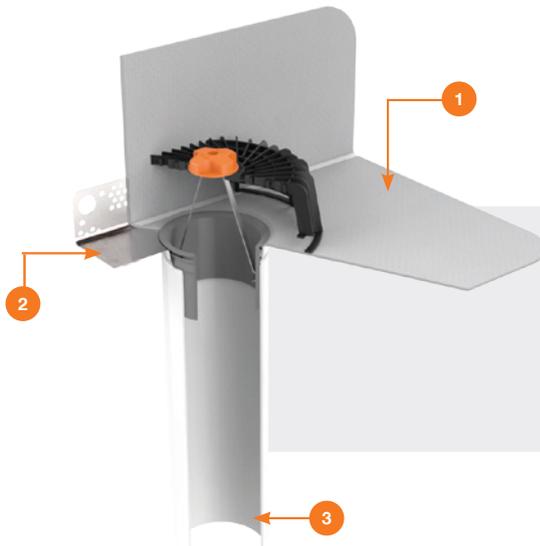
Universal single - wall outlet TOPWET with an integrated sleeve of modified bitumen strip, flexible base plate and leaf guard

Type	Outer / inner diameter
TWJ UNI 50 BIT	DN 50
TWJ UNI 75 BIT	DN 70
TWJ UNI 90 BIT	DN 90
TWJ UNI 110 BIT	DN 100
TWJ UNI 125 BIT	DN 125



Universal single - wall outlet TOPWET with an integrated sleeve of waterproof membrane based on PVC, flexible base plate and leaf guard

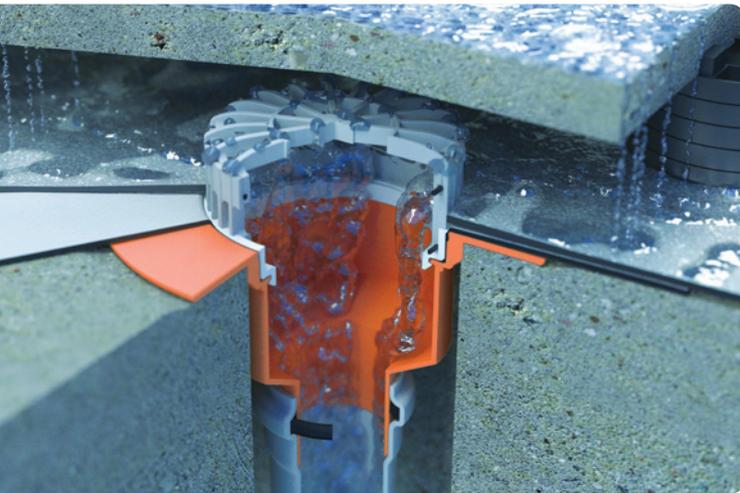
TWJ UNI 50 PVC	DN 50
TWJ UNI 75 PVC	DN 70
TWJ UNI 90 PVC	DN 90
TWJ UNI 110 PVC	DN 100
TWJ UNI 125 PVC	DN 125



- 1** Universal single-wall outlet TWJ UNI
- 2** Base plate material enabling its bending directly on construction site
- 3** Pipe can be supplemented by rubber sealing TW SAN TES

Terrace outlets

Drainage of flat roofs, terraces and balconies



- Vertical or horizontal version DN 50-125
- Construction from polyamide PA6
- Integrated sleeve made of a waterproof strip or foil
- Low construction height
- A special low leaf guard is part of every outlet, with possibility of adjustment to a flat leaf guard
- A heated version will ensure reliable drainage even in the winter season

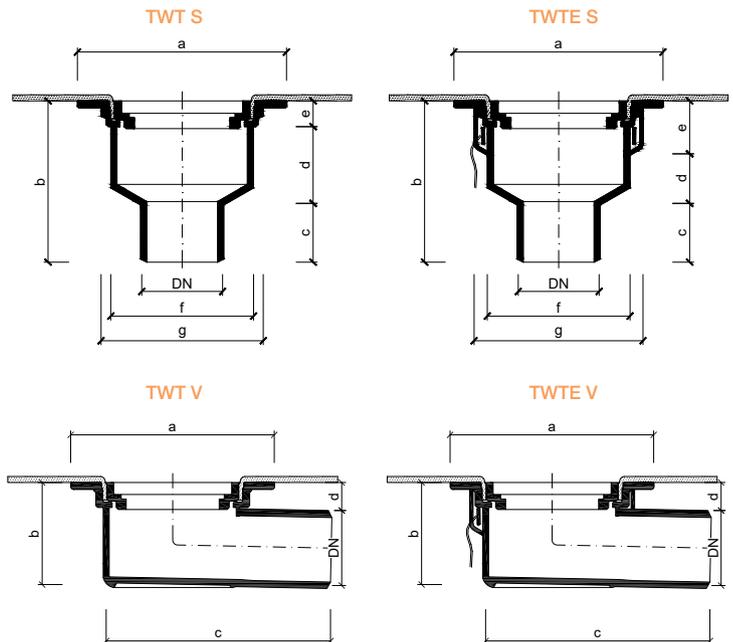
Terrace outlets – vertical version

Type	DN	Dimensions [mm]						
		a	b	c	d	e	f	g
TWT(E) 75 S	70	204	182	80	75 (*52)	27 (*50)	133	156
TWT(E) 110 S	100	204	182	80	75 (*52)	27 (*50)	133	156
TWT(E) 125 S	125	204	182	80	75 (*52)	27 (*50)	133	156

** dimension at heated version

Terrace outlets – horizontal version

Type	DN	Dimensions [mm]			
		a	b	c	d
TWT(E) 50 V	50	204	92	225	44
TWT(E) 75 V	70	204	102	225	28
TWT(E) 110 V	100	204	143	238	33
TWT(E) 125 V	125	204	143	238	26



TOPWET terrace outlet with an integrated bitumen sleeve

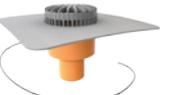
BIT

	Version	Type	Dimensions
	TOPWET terrace outlet with an integrated sleeve of modified bitumen strip, vertical version, with a leaf guard.	TWT 75 S BIT TWT 110 S BIT TWT 125 S BIT	DN 70 DN 100 DN 125
	TOPWET terrace outlet with an integrated sleeve of modified bitumen strip, vertical version, heated 230 V with a connecting cable, with a leaf guard.	TWTE 75 S BIT TWTE 110 S BIT TWTE 125 S BIT	DN 70 DN 100 DN 125
	TOPWET terrace outlet with an integrated sleeve of modified bitumen strip, horizontal version, with a leaf guard.	TWT 50 V BIT TWT 75 V BIT TWT 110 V BIT TWT 125 V BIT	DN 50 DN 70 DN 100 DN 125
	TOPWET terrace outlet with an integrated sleeve of modified bitumen strip, horizontal version, heated 230 V with a connecting cable, with a leaf guard.	TWTE 50 V BIT TWTE 75 V BIT TWTE 110 V BIT TWTE 125 V BIT	DN 50 DN 70 DN 100 DN 125

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

TOPWET terrace outlets with an integrated PVC sleeve

PVC

	Version	Type	Dimensions
	TOPWET terrace outlets with an integrated PVC sleeve of waterproof membrane based on PVC, vertical version, with a leaf guard.	TWT 75 S PVC TWT 110 S PVC TWT 125 S PVC	DN 70 DN 100 DN 125
	TOPWET terrace outlets with an integrated PVC sleeve of waterproof membrane based on PVC, vertical version, heated 230 V with a connecting cable, with a leaf guard.	TWTE 75 S PVC TWTE 110 S PVC TWTE 125 S PVC	DN 70 DN 100 DN 125
	TOPWET terrace outlets with an integrated PVC sleeve of waterproof membrane based on PVC, horizontal version, with a leaf guard.	TWT 50 V PVC TWT 75 V PVC TWT 110 V PVC TWT 125 V PVC	DN 50 DN 70 DN 100 DN 125
	TOPWET terrace outlets with an integrated PVC sleeve of waterproof membrane based on PVC, horizontal version, heated 230 V with a connecting cable, with a leaf guard.	TWTE 50 V PVC TWTE 75 V PVC TWTE 110 V PVC TWTE 125 V PVC	DN 50 DN 70 DN 100 DN 125

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

Accessories for roof outlets, terrace outlets and extensions

Drainage of ballast roofs, terraces and balconies and anti-stink measures



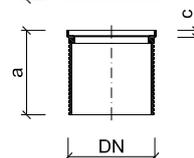
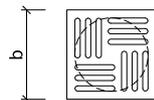
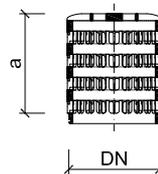
- On roofs with a ballast layer of gravel it is necessary to use a perforated leaf guard
- Wide range of accessories for walkable roofs
- Terrace attachments for drainage from the paving surface level
- Possibility of using a odour trap inserted in the outlet

Leaf guard for roofs with gravel

Type	DN	Dimensions [mm]		Purpose
		a		
TWOK v100	125*	100		A universal leaf guard for roof outlets DN 70, 100 and 125, terrace outlets DN 50, 70, 100 and 125, attachments for outlets, sanitation outlet and extended outlets
TWOK v133	125*	133		
TWOK v166	125*	166		
TWOK v200	125*	200		
TWOK NR v20-1000 XL	150	20-1000		For roof outlets DN 150 and attachments for XL outlets

Terrace attachments

Type	DN	Dimensions [mm]			Purpose
		a	b	c	
TW TER	125*	100	135	11	A universal terrace attachment for roof outlets DN 70, 100 and 125, terrace outlets DN 50, 70, 100 and 125, extensions for outlets, refurbishment outlet and extended outlets
TW TER P	125*	220	135	11	
TWNR TER v10-1000 XL	150	10-1000	150	11	For roof outlets DN 150 and extensions for XL outlets



* How can attachments be universal for various diameters of roof and terrace outlets DN 50, 70, 100 and 125?

The outlets have a neck or an integrated sleeve of the same construction and diameter. The outlet construction only differs below the neck. Ensuring that all the accessories are universal.

What attachment shall I use if I have screed waterproof which is at the level of the outlet neck?

For this type of finish, there is TW TER attachment which can be shortened according to the height of the screed and paving.

Mechanical roof flaps into TOPWET roof outlets, terrace outlets and their extensions

Accessories

	Version	Type	Height
	Mechanical roof flap TOPWET with increased drainage capacity and self-cleaning properties. It is designed for roof drains, attachments and balcony drains TOPWET. The flap can not be used for DN 150 drains and for redevelopment and extended drains. The flap should not be installed in an environment with the inhibited air circulation.	TWZU KL	
	Water odor trap TOPWET with an increased drainage capacity. It is designed for roof drains, attachments and balcony drains TOPWET. The water level of 50 mm. The cap cannot be used for DN 150 drains and for redevelopment and extended drains. The flap is designed for environments with no free air circulation and for places where a possibility of freezing is eliminated.	TWZU	50 mm

Accessories for roof outlets, terrace outlets and their extensions

Accessories

	Version	Type	Height above insulation level
	Terraced attachment TOPWET for terraces with glued or otherwise mounted pavement. The package includes one drainage ring for the more continuous water runoff from the main waterproof system. The terraced attachment can be extended with another drainage ring TW ODK by about 33 mm or the attachment TWN TER. The attachment height is adjustable; the thick-walled polyamide PA6 UV Stabil design.	TW TER	10–100 mm (45–150 mm)**
	Perforated terraced attachment TOPWET for terraces with the pavement. The package includes three drainage rings for smoother water runoff from the main waterproof system. The terraced attachment can be extended with another drainage ring TW ODK by about 33 mm or the attachment TWN TER. The attachment height is adjustable; the thick-walled polyamide PA6 UV Stabil design.	TW TER P	45–220 mm
	The extended attachment for the extension of the terraced attachment by 120 mm as a maximum. The exact height of the attachment can always be adapted directly on site. The thick-walled polyamide PA6 UV Stabil design.	TWN TER	15–120 mm
	Drainage ring for extension of leaf guard TWOK or terrace attachment TW TER (P).. The thick-walled polyamide PA6 UV Stabil design. The height above the level of the waterproof system is 33 mm. The hole size of 15x7 mm.	TW ODK	+33 mm
	Flat walkable leaf guard TOPWET. The thick-walled polyamide PA6 UV Stabil design. The height above the level of the waterproof system is 10 mm.	TW PLK	+10 mm
	Perforated leaf guard TOPWET for roofs with gravel or other load-increasing strata. The basket can be extended with the drainage ring TW ODK always by 33 mm. The thick-walled polyamide PA6 UV Stabil design.	TWOK v33 TWOK v66 TWOK v100 TWOK v133 TWOK v166 TWOK v200	33 mm 66 mm 100 mm 133 mm 166 mm 200 mm

* The heights apply when the TW ODK

Refurbishment outlets and vents

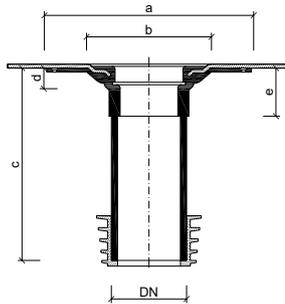
Flat roof refurbishment



- Basic length 400mm
- Direct connection to existing roof outlets or vertical downpipes
- Wide assortment of fine graduated diameters
- Easy application with refurbishment with use of a new heat-insulated layer from a thickness of 50 mm
- Custom manufacturing of higher refurbishment outlets with a tube of a length up to 1500 mm
- Lip seal against raised water included in each outlet
- Slippery means included in each package
- Heated version on request

Refurbishment outlets for warm roofs

Type	Dimensions [mm]				
	a	b	c**	d	e
TW SAN 50	330	220	400	40 (80°)	90
TW SAN 63	330	220	400	40 (80°)	90
TW SAN 75	330	220	400	40 (80°)	90
TW SAN 90	330	220	400	40 (75°)	90
TW SAN 104	330	220	400	40 (80°)	90
TW SAN 110	330	220	400	40 (80°)	90
TW SAN 125	330	220	400	40 (80°)	90
TW SAN 140	330	220	400	40 (80°)	90
TW SAN 160	342	265	400	40 (90°)	120

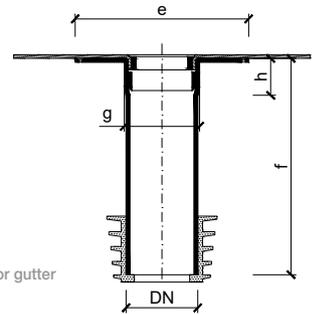


* dimension at heated version

** optionally extension up to 2000 mm to order

Refurbishment outlets for cold roofs

Type	Dimensions [mm]			
	e	f	g	h
TW SAN BZ 50	250	400	56	60
TW SAN BZ 75	250	400	81	60
TW SAN BZ 90	250	400	96	60
TW SAN BZ 104	250	400	116	60
TW SAN BZ 110	250	400	116	60
TW SAN BZ 125	250	400	131	60



The outlet may be inserted into existing outlet, pipe or gutter up to a neck, but it has lower drain capacity

Selection table for refurbishment outlets

Type	For connection to piping of diameter	Type of existing downpipe [DN]																						
		Cast iron								PE				PVC				PP						
		70	80	100	110	125	150	200	63	75	90	110	125	150	200	70	100	125	150	200	100	125	150	200
TW SAN 50	54-72 mm	✓						✓	✓							✓								
TW SAN 63	69-81 mm	✓	✓					✓	✓	✓						✓								
TW SAN 75	79-102 mm		✓							✓														
TW SAN 90	99-106 mm			✓							✓						✓							
TW SAN 104	109-116 mm				✓																✓			
TW SAN 110	116-129 mm					✓																✓		
TW SAN 125	144-154 mm						✓							✓			✓							✓
TW SAN 140	154-186 mm							✓						✓	✓			✓	✓					✓
TW SAN 160	186-200 mm								✓							✓			✓	✓				✓

TOPWET refurbishment outlets with integrated bitumen sleeve

BIT

Version	Type	For connection to piping of diameter
 <p>TOPWET refurbishment outlet with an integrated sleeve of modified bitumen strip with a leaf guard. Length 400 mm, option of extension up to 1500 mm on request.</p>	TW SAN 50 BIT	54–72 mm
	TW SAN 63 BIT	69–81 mm
	TW SAN 75 BIT	79–102 mm
	TW SAN 90 BIT	99–106 mm
 <p>TOPWET refurbishment outlet with an integrated sleeve of modified bitumen strip with a leaf guard, heated with 230 V with a supply cable. Length 400 mm, option of extension up to 1500 mm on request.</p>	TW SAN 104 BIT	109–116 mm
	TW SAN 110 BIT	116–129 mm
	TW SAN 125 BIT	144–154 mm
	TW SAN 140 BIT	154–186 mm
	TW SAN 160 XL BIT	186–200 mm
	TWE SAN 50 BIT	54–72 mm
 <p>TOPWET refurbishment outlet for cold roofs with an integrated sleeve of modified bitumen strip with a leaf guard. The outlet may be inserted into redeveloped pipes up to a neck, but it has lower drain capacity. Length 400 mm, option of extension up to 1000 mm on request.</p>	TWE SAN 63 BIT	69–81 mm
	TWE SAN 75 BIT	79–102 mm
	TWE SAN 90 BIT	99–106 mm
	TWE SAN 104 BIT	109–116 mm
	TWE SAN 110 BIT	116–129 mm
	TWE SAN 125 BIT	144–154 mm
 <p>TOPWET refurbishment vent determined for connection to sewerage ventilation piping with an integrated sleeve of modified bitumen strip including a rain cap. A height above insulation of 300 mm, a height below insulation of 200 mm, option of extension up to 1500 mm on request.</p>	TW SAN BZ 50 BIT	54–72 mm
	TW SAN BZ 75 BIT	79–102 mm
	TW SAN BZ 90 BIT	99–106 mm
	TW SAN BZ 104 BIT	109–116 mm
	TW SAN BZ 110 BIT	116–129 mm
	TW SAN BZ 125 BIT	144–154 mm
	TWOP SAN 50 BIT	54–72 mm
	TWOP SAN 75 BIT	79–102 mm
	TWOP SAN 90 BIT	99–106 mm
	TWOP SAN 110 BIT	116–129 mm
	TWOP SAN 125 BIT	144–154 mm

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

TOPWET refurbishment outlets with integrated PVC sleeve

PVC

Version	Type	For connection to piping of diameter
 <p>TOPWET refurbishment outlet with an integrated sleeve of hydro-insulation foil based on PVC with a leaf guard. Length 400 mm, option of extension up to 1500 mm on request.</p>	TW SAN 50 PVC	54–72 mm
	TW SAN 63 PVC	69–81 mm
	TW SAN 75 PVC	79–102 mm
	TW SAN 90 PVC	99–106 mm
 <p>TOPWET refurbishment outlet with an integrated sleeve of hydro-insulation foil based on PVC with a leaf guard, heated with 230 V with a supply cable. Length 400 mm, option of extension up to 1500 mm on request.</p>	TW SAN 104 PVC	109–116 mm
	TW SAN 110 PVC	116–129 mm
	TW SAN 125 PVC	144–154 mm
	TW SAN 140 PVC	154–186 mm
	TW SAN 160 XL PVC	186–200 mm
	TWE SAN 50 PVC	54–72 mm
 <p>TOPWET refurbishment outlet for cold roofs with an integrated sleeve of PVC membrane with a leaf guard. The outlet may be inserted into redeveloped pipes up to a neck, but it has lower drain capacity. Length 400 mm, option of extension up to 1000 mm on request.</p>	TWE SAN 63 PVC	69–81 mm
	TWE SAN 75 PVC	79–102 mm
	TWE SAN 90 PVC	99–106 mm
	TWE SAN 104 PVC	109–116 mm
	TWE SAN 110 PVC	116–129 mm
	TWE SAN 125 PVC	144–154 mm
 <p>TOPWET refurbishment vent determined for connection to sewerage ventilation piping with an integrated sleeve of waterproof membrane based on PVC including a rain cap. A height above insulation of 300 mm, a height below insulation of 200 mm, option of extension up to 1500 mm on request.</p>	TW SAN BZ 50 PVC	54–72 mm
	TW SAN BZ 75 PVC	79–102 mm
	TW SAN BZ 90 PVC	99–106 mm
	TW SAN BZ 104 PVC	109–116 mm
	TW SAN BZ 110 PVC	116–129 mm
	TW SAN BZ 125 PVC	144–154 mm
	TWOP SAN 50 PVC	54–72 mm
	TWOP SAN 75 PVC	79–102 mm
	TWOP SAN 90 PVC	99–106 mm
	TWOP SAN 110 PVC	116–129 mm
	TWOP SAN 125 PVC	144–154 mm

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

Extended single-wall roof outlets

Drainage of flat roofs



- Standard length 400 mm
- Length up to 1500 mm on request
- Option of length modification directly on construction site
- Simple assembly
- Option for heated version to order
- No possibility of combination with outlet extensions and mechanical roof flaps
- It is possible to combine with TWOK and TW TER accessories

Extended single-wall roof outlets

Type	DN	Dimensions [mm]					
		a	b**	c	d	e	f
TWJ 50	50	330	400	40 (80°)	90	200	160
TWJ 75	70	330	400	40 (80°)	90	200	160
TWJ 90	90	330	400	40 (80°)	90	200	160
TWJ 110	100	330	400	40 (80°)	90	200	160
TWJ 125	125	330	400	40 (80°)	90	200	160
TWJ 160	150	342	400	40 (90°)	120	265	205

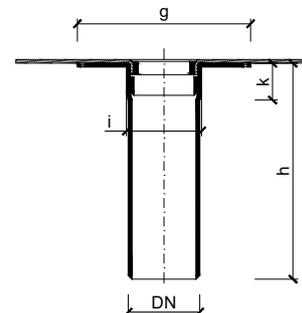
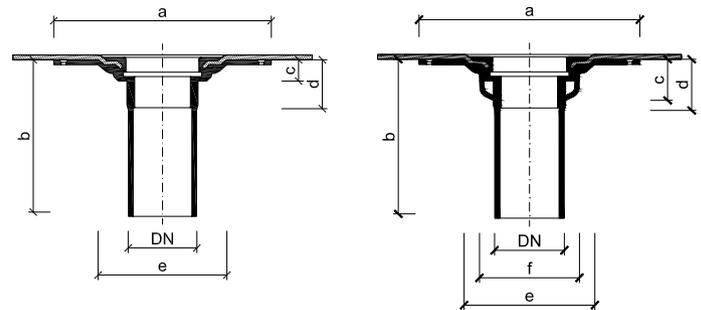
*dimension at heated version

** optionally extension up to 1500 mm to order

Extended single-wall roof outlets Roofs without thermal insulation

Type	DN	Dimensions [mm]			
		g	h	i	k
TWJ BZ 50	50	250	400	56	60
TWJ BZ 75	70	250	400	81	60
TWJ BZ 90	90	250	400	96	60
TWJ BZ 110	100	250	400	116	60
TWJ BZ 125	125	250	400	131	60

The outlet may be inserted into existing outlet, pipe or gutter up to a neck, but it has lower drain capacity



What is the difference between the standard outlet and the BZ outlet?

Outlets with BZ marking (without thermal insulation) are useful for uninsulated structures, gutters or redevelopments when it is necessary to insert the outlet into the pipe or the hole up to the neck. In contrast to the standard version the BZ outlets have lower drain capacity.

Extended single-wall roof outlets with integrated bitumen sleeve

BIT

	Version	Type	DN / Outlet length
	TOPWET roof outlet with an integrated sleeve of modified bitumen strip with a leaf guard. Single-wall, length option on request.	TWJ 50 BIT TWJ 75 BIT TWJ 90 BIT TWJ 110 BIT TWJ 125 BIT TWJ 160 XL BIT	DN 50 / 400 mm DN 70 / 400 mm DN 90 / 400 mm DN 100 / 400 mm DN 125 / 400 mm DN 150 / 400 mm
	TOPWET roof outlet with an integrated sleeve of modified bitumen strip with a leaf guard, heated with 230 V with a supply cable 1.5 m. Single-wall, length option on request.	TWJE 50 BIT TWJE 75 BIT TWJE 90 BIT TWJE 110 BIT TWJE 125 BIT TWJE 160 XL BIT	DN 50 / 400 mm DN 70 / 400 mm DN 90 / 400 mm DN 100 / 400 mm DN 125 / 400 mm DN 150 / 400 mm
	TOPWET roof outlet cold roofs with an integrated sleeve of modified bitumen strip with a leaf guard. The outlet may be inserted into redeveloped pipes up to a neck, but it has lower drain capacity. Length 400 mm, option of extension up to 1000 mm on request.	TWJ BZ 50 BIT TWJ BZ 75 BIT TWJ BZ 90 BIT TWJ BZ 110 BIT TWJ BZ 125 BIT	DN 50 / 400 mm DN 70 / 400 mm DN 90 / 400 mm DN 100 / 400 mm DN 125 / 400 mm

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

Extended single-wall roof outlets with integrated PVC sleeve

PVC

	Version	Type	DN / Outlet length
	TOPWET roof outlet with an integrated sleeve of waterproof membrane based on PVC with a leaf guard. Single-wall, length option on request.	TWJ 50 PVC TWJ 75 PVC TWJ 90 PVC TWJ 110 PVC TWJ 125 PVC TWJ 160 XL PVC	DN 50 / 400 mm DN 70 / 400 mm DN 90 / 400 mm DN 100 / 400 mm DN 125 / 400 mm DN 150 / 400 mm
	TOPWET roof outlet with an integrated sleeve of waterproof membrane based on PVC with a leaf guard, heated with 230 V with a supply cable 1.5 m. Single-wall, length option on request.	TWJE 50 PVC TWJE 75 PVC TWJE 90 PVC TWJE 110 PVC TWJE 125 PVC TWJE 160 XL PVC	DN 50 / 400 mm DN 70 / 400 mm DN 90 / 400 mm DN 100 / 400 mm DN 125 / 400 mm DN 150 / 400 mm
	TOPWET roof outlet for cold roofs with an integrated sleeve of waterproof membrane based on PVC with a leaf guard. The outlet may be inserted into redeveloped pipes up to a neck, but it has lower drain capacity. Length 400 mm, option of extension up to 1000 mm on request.	TWJ BZ 50 PVC TWJ BZ 75 PVC TWJ BZ 90 PVC TWJ BZ 110 PVC TWJ BZ 125 PVC	DN 50 / 400 mm DN 70 / 400 mm DN 90 / 400 mm DN 100 / 400 mm DN 125 / 400 mm

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

Balcony outlets

Drainage of balconies



- DN 50 and 70 vertical and horizontal version
- PA6 polyamide construction
- Integrated sleeve of waterproof strip or foil
- Low construction height
- Suitable to drain smaller areas
- Protective and removable grid included in each outlet
- Heated version ensures reliable drainage even in winter season

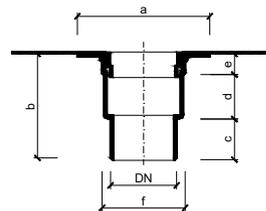
Balcony outlets – vertical version

Type	DN	Dimensions [mm]							
		a	b	c	d	e	f	g	h
TWB 50 S	50	150	120	45	51	24	99	-	-
TWB 75 S	70	150	120	45	51	24	99	-	-
TWBE 50 S	50	150	120	45	-	-	134	32	43
TWBE 75 S	70	150	120	45	-	-	134	32	43

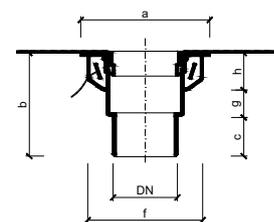
Balcony outlets – horizontal version

Type	DN	Dimensions [mm]			
		a	b	c	d
TWB 50 V	50	150	61	167	14
TWB 75 V	70	150	96	163	21
TWBE 50 V	50	150	61	187	14
TWBE 75 V	70	150	96	183	21

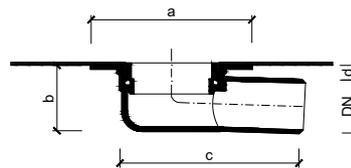
TWB S



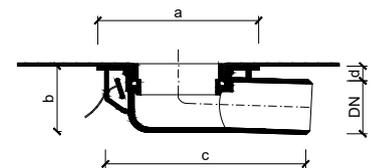
TWBE S



TWB V



TWBE V



TOPWET balcony outlets with integrated bitumen sleeve

BIT

	Version	Type	Dimensions
	TOPWET balcony outlet with an integrated sleeve of modified bitumen strip, vertical version, with a flat leaf guard.	TWB 50 S BIT TWB 75 S BIT	DN 50 DN 70
	TOPWET balcony outlet with an integrated sleeve of modified bitumen strip, vertical version, heated with 230 V with a supply cable, with a flat leaf guard.	TWBE 50 S BIT TWBE 75 S BIT	DN 50 DN 70
	TOPWET balcony outlet with an integrated sleeve of modified bitumen strip, horizontal version, with a flat leaf guard.	TWB 50 V BIT TWB 75 V BIT	DN 50 DN 70
	TOPWET balcony outlet with an integrated sleeve of modified bitumen strip, horizontal version, heated with 230 V with a supply cable, with a flat leaf guard.	TWBE 50 V BIT TWBE 75 V BIT	DN 50 DN 70

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

TOPWET balcony outlets with integrated PVC sleeve

PVC

	Version	Type	Dimensions
	TOPWET balcony outlet with an integrated sleeve of waterproof membrane based on PVC, vertical version, with a flat leaf guard.	TWB 50 S PVC TWB 75 S PVC	DN 50 DN 70
	TOPWET balcony outlet with an integrated sleeve of waterproof membrane based on PVC, vertical version, heated with 230 V with a supply cable, with a flat leaf guard.	TWBE 50 S PVC TWBE 75 S PVC	DN 50 DN 70
	TOPWET balcony outlet with an integrated sleeve of waterproof membrane based on PVC, horizontal version, with a flat leaf guard.	TWB 50 V PVC TWB 75 V PVC	DN 50 DN 70
	TOPWET balcony outlet with an integrated sleeve of waterproof membrane based on PVC, horizontal version, heated with 230 V with a supply cable, with a flat leaf guard.	TWBE 50 V PVC TWBE 75 V PVC	DN 50 DN 70

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

Accessories for TOPWET balcony outlets

	Version	Type	Height above insulation level
	TOPWET balcony attachment of a new generation with a stainless steel grid 100x100 mm. For balconies with glued or differently laid tiles. The balcony attachment can be extended using another TWB ODK drainage ring of 25 mm. The package includes drainage ring for the more continuous water runoff from main waterproof system. The exact height of the attachment can always be adapted directly on site. The thick-walled polyamide PA6 UV Stabil design.	TWB TER	14-95 mm (39-120 mm)*
	TOPWET balcony attachment of a new generation with a stainless steel grid 100x100 mm. For balconies with glued laid tiles. The exact height of the attachment can always be adapted directly on site. The thick-walled polyamide PA6 UV Stabil design.	TWB TER TH	18-95 mm
	TOPWET balcony attachment of a new generation with a stainless steel grid 100x100 mm. For balconies with glued laid tiles and integrated membrane increase adhesion. The exact height of the attachment can always be adapted directly on site.	TWB TER STE	10-95 mm
	Balcony drainage ring for extension of the TWB TER balcony attachment, always by 25 mm. The thick-walled polyamide PA6 UV Stabil design. The hole size of 10x6.5 mm.	TWB ODK	25 mm
	Flat TOPWET walkable protective leaf guard balcony outlets. The thick-walled polyamide PA6 UV Stabil design. The height above the level of the waterproof system is 10 mm.	TWB PLK	10 mm
	Perforated protective leaf guard TOPWET for balcony outlets. The leaf guard can be extended with the drainage ring TWB ODK always by 25 mm. The thick-walled polyamide PA6 UV Stabil design.	TWOK BAL v35 TWOK BAL v60 TWOK BAL v85 TWOK BAL v110	35 mm 60 mm 85 mm 110 mm
	Mechanical stink trap for vertical and horizontal version of TOPWET TWB balcony outlets.	TWZU BAL	

* The heights apply when the TW ODK BAL item is used

Possible combinations of accessories for TOPWET balcony outlets for various types of balcony compositions

Balcony composition with a drainage layer



Combination of a TOPWET balcony outlet with an integrated sleeve and a balcony attachment with a stainless steel grid and a drainage ring used for water drainage from the main hydro-insulation layer.

Balcony composition with a glued layer



Combination of a TOPWET balcony outlet with an integrated sleeve for screed insulation and a balcony attachment with a stainless steel grid adjusted on site as required.

Balcony composition with a walkable roof foil



Combination of a TOPWET balcony outlet with an integrated sleeve and a flat walkable protective basket supplied as standard with balcony outlets.

Balcony composition with a gravel layer



Combination of a TOPWET balcony outlet with an integrated sleeve and a flat walkable protective basket supplied as standard with balcony outlets, complemented with balcony drainage rings as required.

Retention element

Reduction of drainage capacity of rainwater into the sewer network

Retention roof

- Reduction of drainage capacity into the sewer network
- Fast installation and easy maintenance
- Reduction of acquisition costs compared to other retention systems

Support & Retention Roof Designs

- Technical report of retention roof incl. calculation on the basis of information from the authorities concerned
- Drawing of the division of the retention roof surfaces
- Delivery and installation of retention elements
- Inspection and cleaning of installed retention elements
- For design suggestion, ask at technical department TOPWET



Retention attachments



Version

The TOPWET retention element is designed to reduce the outflow of rainwater towards the sewer network with the possibility of setting the outflow value in a certain range. The draft retention measure is made by calculation following a statement from the authorities concerned.

Type

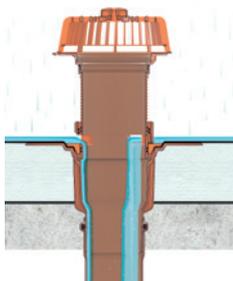
TW RETN

For overflow height

80 mm - 176 mm

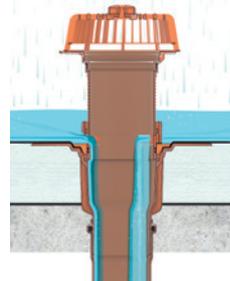
Basic phases of rainwater runoff

Beginning phase



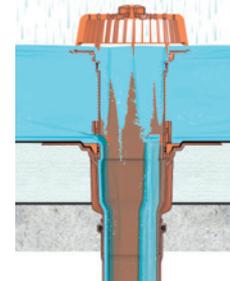
At normal rainfall intensity, the water flows freely through the lower openings into the sewer as with conventional roof outflow

Proposed phase



In the event of heavy rain, the water level begins to rise up and the lower openings of the retention outlet provide an outflow corresponding to the permissible outflow, based on the opinion of the authorities concerned.

Emergency phase



After exceeding the time of the storm sites longer than 15 minutes, the water is drained by a safety overflow in the upper part of the retention outlet

Inspection chamber for green roofs

Accessories for roofs with vegetation layers

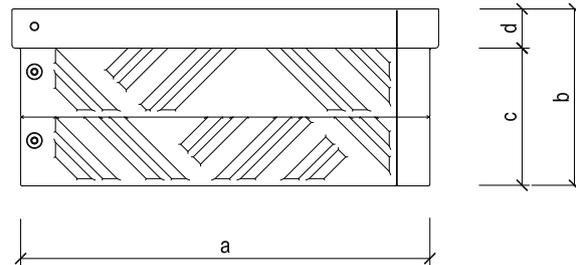


- Dimensions 300x300, 400x400 and 550x550 mm
- Variable height adjustment - basic set of 100 mm, additional set of 50 mm
- New design, stronger construction, finer perforations, fluent drainage of water from the vegetation
- Removable lid in neutral gray
- Solid, UV stable material
- Easy to check and roof outlet maintenance

Inspection chamber for green roofs

Type	Dimensions [mm]			
	a	b	c	d
TWZ (F)	280	130	100	30
	380	130	100	30
	530	130	100	30
TWZN v100	280	130	100	30
	380	130	100	30
	530	130	100	30
TWZN v50	280	80	50	30
	380	80	50	30
	530	80	50	30

TWZ



Self - assembly

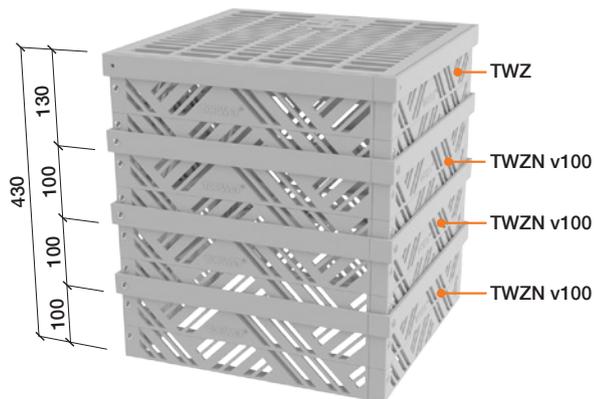
Chambers for green roof is structurally adapted, so that the chambers can be assembled in required height self-help directly on construction.

Using height slats (50 mm or 100 mm) and fasteners to the cover grid TWZ or TWZF can be easy to assemble the whole protective chamber to the required height according to vegetation formation.

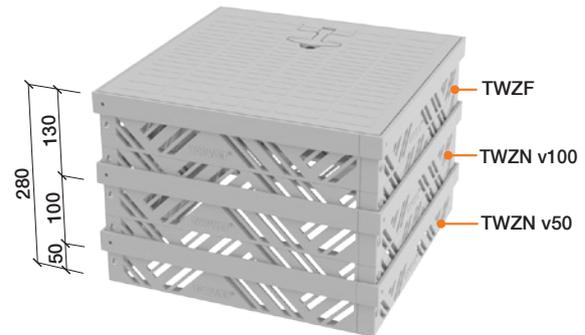
Inspection chamber for green roofs

	Version	Type	Dimensions
	Inspection chamber for green roofs, height 130 mm, including perforated plastic cover grid. Fasteners included in the package	TWZ 300x300x130 TWZ 400x400x130 TWZ 550x550x130	300x300 mm 400x400 mm 550x550 mm
	Inspection chamber for green roofs, height 130 mm, including non-perforated plastic cover grid. Fasteners included in the package	TWZF 300x300x130 TWZF 400x400x130 TWZF 550x550x130	300x300 mm 400x400 mm 550x550 mm
	Basic set of four slats for an increase of 100 mm, fasteners are included. Fasteners included in the package	TWZN v100 300x300 TWZN v100 400x400 TWZN v100 550x550	300x300 mm 400x400 mm 550x550 mm
	Additional set of four slats for an increase of 50 mm, fasteners are included. Fasteners included in the package	TWZN v50 300x300 TWZN v50 400x400 TWZN v50 550x550	300x300 mm 400x400 mm 550x550 mm

Chamber components with perforated grid,
height 430 mm

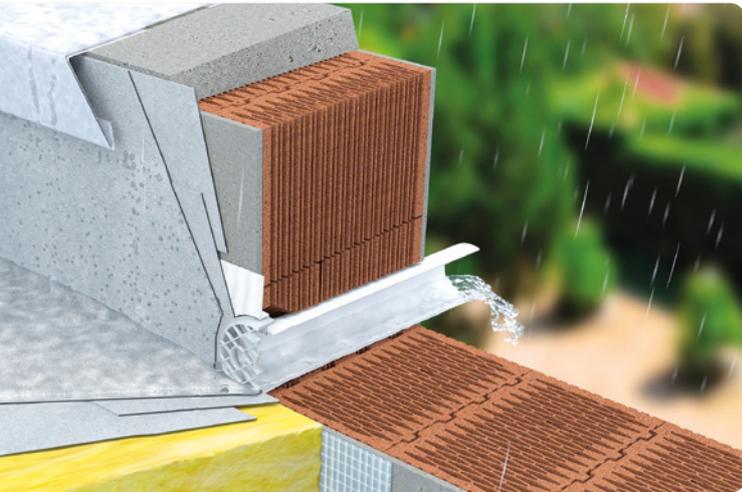


Chamber components with non-perforated grid,
height 280 mm



Through wall outlets

Drainage of flat roofs, terraces and balconies



Through wall outlets – round

Type	DN	Dimensions [mm]							
		a	b	c	d	e	f	g	h
TWC(E) 50	50	600	24	104	88	13	62	22	62
TWC(E) 75	70	600	24	104	88	13	62	22	62
TWC(E) 110	100	600	24	174	157	13	60	22	60
TWC(E) 125	125	600	24	174	157	13	60	22	60
TWC(E) 160	150	600	24	174	157	13	60	22	60

Through wall outlets – squared

Type	Dimensions [mm]						
	a x b	c	d	e	f	g	h
TWC 50x100	50x100	500	4	92	38	8	50
TWC 50x150	50x150	500	4	92	38	8	50
TWC 100x100	100x100	500	4	142	88	8	50
TWC 100x150	100x150	500	4	142	88	8	50
TWC 100x300	100x300	500	4	142	88	8	50

Basic type – round through wall outlet of 600 mm length

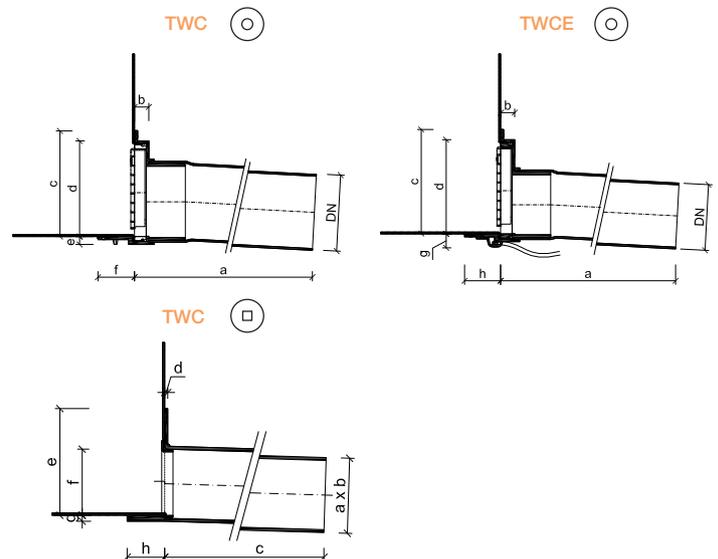
- Construction with a lowered drain edge
- Integrated sleeve of waterproofing membrane
- Protective and removable grid included in each through wall outlet
- Possibility to extend up to 1500 mm
- Through wall outlet made of UV stable PVC
- Heated version ensures reliable drainage even in winter season
- Possibility of connection to a rain hopper or to downpipes DN 50, DN 70, DN 100, DN 125 and DN 150

Basic type - through wall outlet squared of 500 mm length

- Five basic dimensions
- Same dimensions as round version
- Custom made dimensions to order (always 50 mm)

Complementary type – mini through wall outlet of 200 mm length

- For drainage of small terraces and balconies
- Low construction height 60 mm
- Special sleeve for connection to trowelled insulation



TOPWET through wall outlets with integrated bitumen sleeve

BIT



Version	Type	Dimensions
TOPWET round through wall outlet with an integrated sleeve of modified bitumen strip and with a leaf guard. Length 600 mm, option of extension up to 1500 mm on request.	TWC 50 BIT TWC 75 BIT TWC 110 BIT TWC 125 BIT TWC 160 BIT	DN 50 DN 70 DN 100 DN 125 DN 150
TOPWET round through wall outlet with an integrated sleeve of modified bitumen strip and with a leaf guard, heated with 230 V with a supply cable. Length 600 mm, option of extension up to 1500 mm on request.	TWCE 50 BIT TWCE 75 BIT TWCE 110 BIT TWCE 125 BIT TWCE 160 BIT	DN 50 DN 70 DN 100 DN 125 DN 150
TOPWET squared through wall outlet with an integrated sleeve of modified bitumen strip. Outlet spout material is PVC, white colour. Length 500 mm, option of extension up to 1000 mm on request.	TWC 50x100 BIT TWC 50x150 BIT TWC 100x100 BIT TWC 150x150 BIT TWC 100x300 BIT	50/100 50/150 100/100 150/150 100/300

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

TOPWET through wall outlets with integrated PVC sleeve

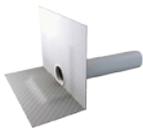
PVC



Version	Type	Dimensions
TOPWET round gutter spout with an integrated sleeve of PVC membrane and with a leaf guard. Length 600 mm, option of extension up to 1500 mm on request.	TWC 50 PVC TWC 75 PVC TWC 110 PVC TWC 125 PVC TWC 160 PVC	DN 50 DN 70 DN 100 DN 125 DN 150
TOPWET round through wall outlet with an integrated sleeve of PVC membrane and with a leaf guard, heated with 230 V with a supply cable. Length 600 mm, option of extension up to 1500 mm on request.	TWCE 50 PVC TWCE 75 PVC TWCE 110 PVC TWCE 125 PVC TWCE 160 PVC	DN 50 DN 70 DN 100 DN 125 DN 150
TOPWET squared through wall outlet with an integrated sleeve of waterproof membrane based on PVC. Outlet spout material is PVC, white colour. Length 500 mm, option of extension up to 1000 mm on request.	TWC 50x100 PVC TWC 50x150 PVC TWC 100x100 PVC TWC 150x150 PVC TWC 100x300 PVC	50/100 50/150 100/100 150/150 100/300

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

TOPWET MINI through wall outlet



Version	Type	Dimensions
TOPWET MINI through wall outlet. Length 200 mm, option of extension up to 1500 mm on request. STE – for cold liquid applied waterproofing	TWC 40 BIT MINI TWC 40 PVC MINI TWC 40 STE MINI	DN 40 DN 40 DN 40

Extension on request is charged.

Safety overflows

Safety overflows of flat roofs, terraces and balconies



Round safety overflow of 600 mm length

- Made of UV stabile PVC
- Integrated sleeve of waterproofing membrane
- Produced at DN 50, 70, 100 and 125
- Possibility to extend up to 1500 mm
- Recommended overlap over the facade is at least 100 mm

Squared safety overflow of 500 mm length

- Five basic variants in stock
- Made of UV stable, hardened PVC
- Integrated sleeve of waterproofing membrane
- Recommended overlap over the facade is at least 100mm
- Possibility of custom-made production in multiples of 50 mm up to 200 x 800 mm
- Optionally extension up to 1000 mm

Safety overflows - round

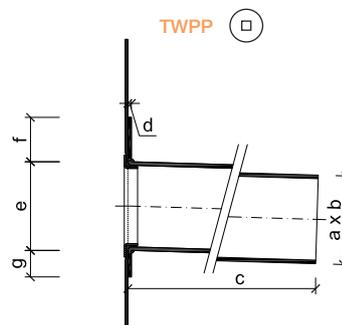
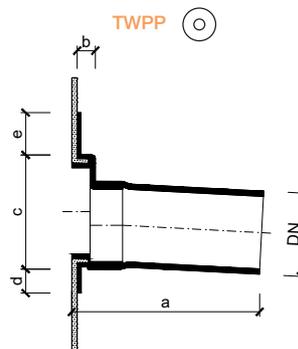
Type	Dimensions [mm]					
	DN	a*	b	c	d	e
TWPP 50	50	600	20	56	30	97
TWPP 75	70	600	20	81	30	84
TWPP 110	100	600	20	116	30	67
TWPP 125	125	600	20	131	30	59

*optionally extension up to 1500mm to order

Safety overflows - squared

Type	Dimensions [mm]					
	a x b	c*	d	e	f	g
TWPP 50x100	50x100	500	4	50	50	30
TWPP 50x150	50x150	500	4	50	50	30
TWPP 100x100	100x100	500	4	100	50	30
TWPP 100x150	100x150	500	4	100	50	30
TWPP 100x300	100x300	500	4	100	50	30

*optionally extension up to 1500mm to order



TOPWET safety overflows with integrated bitumen sleeve

BIT



Version	Type	Dimensions
TOPWET round safety overflow with an integrated sleeve of modified bitumen strip and with a leaf guard. Length 600 mm, option of extension up to 1500 mm on request.	TWPP 50 BIT	DN 50
	TWPP 75 BIT	DN 70
	TWPP 110 BIT	DN 100
	TWPP 125 BIT	DN 125
TOPWET squared safety overflow with an integrated sleeve of modified bitumen strip. Outlet spout material is PVC, white colour. Length 500 mm, option of extension up to 1000 mm on request.	TWPP 50x100 BIT	50/100
	TWPP 50x150 BIT	50/150
	TWPP 100x100 BIT	100/100
	TWPP 150x150 BIT	150/150
	TWPP 100x300 BIT	100/300

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

TOPWET safety overflows with integrated PVC sleeve

PVC



Version	Type	Dimensions
TOPWET round safety overflow with an integrated sleeve of PVC membrane and with a leaf guard. Length 600 mm, option of extension up to 1500 mm on request.	TWPP 50 PVC	DN 50
	TWPP 75 PVC	DN 70
	TWPP 110 PVC	DN 100
	TWPP 125 PVC	DN 125
TOPWET squared safety overflow outlet with an integrated sleeve of a waterproof membrane based on PVC. Outlet spout material is PVC, white colour. Length 500 mm, option of extension up to 1000 mm on request.	TWPP 50x100 PVC	50/100
	TWPP 50x150 PVC	50/150
	TWPP 100x100 PVC	100/100
	TWPP 150x150 PVC	150/150
	TWPP 100x300 PVC	100/300

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.

Aluminium shaft

Accessories



Version	Type	Dimensions (Height / Width)
Aluminium shaft for TOPWET through wall outlets and safety overflows for roofs with ballast.	TWS C 250x150x100	100 mm
	TWS C 250x150x200	200 mm
Protective cover for protective shafts for TOPWET through wall and overflows. Material aluminium.	TWSK C 250x150	

Emergency drainage

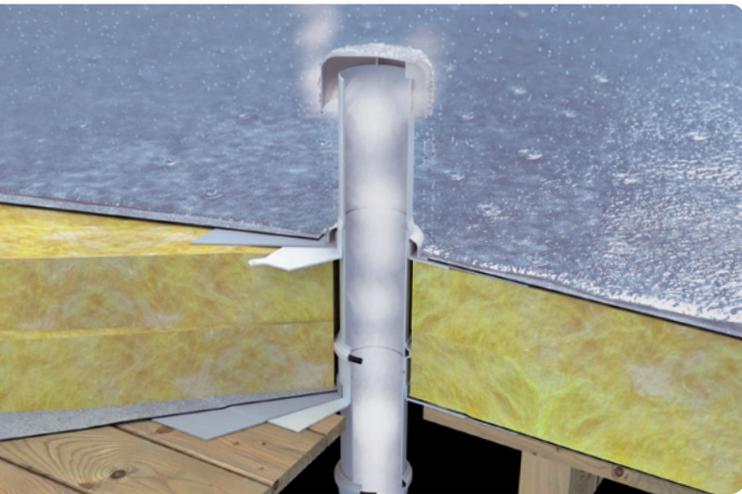
Accessories



Version	Type	Overflow height
Safety overflow for drainage in the area. Flooding height 40 - 120mm. Compatible with terrace, roof outlets and their attachments. It includes 3 ring seals and a protective perforated leaf guard.	TWN OVER	40-120 mm

Vents and penetrations

Ventilation of roofs, sewerage and cable penetrations



- Simple construction for effective ventilation of double-skin roofs
- Fixing points for firm attachment to the substrate of the upper coating
- Integrated waterproof sleeve for reliable connection to the roofing
- Completely new products for professional termination of sewerage ventilation piping
- Applicable for all commonly used DN 50, DN 70, DN 100 and DN 125 ventilation piping
- Base plate enables air-tight penetration through a vapour resistant barrier
- Reliable solution for leading cables, hoses and other media carriers out on the roof
- Professional penetration through waterproof that does not require either ordinary inspections or maintenance

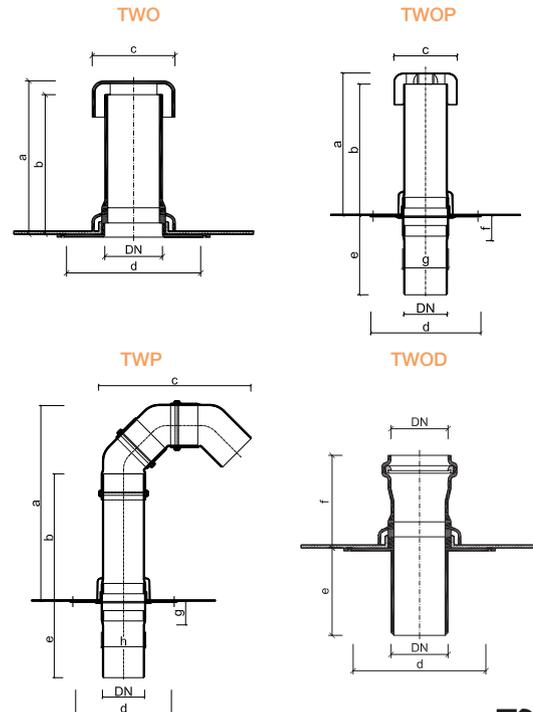
Ventilation of flat roofs and piping ventilation

Type	DN	Section [cm ²]	Dimensions [mm]							
			a*	b*	c	d	e*	f	g	
TWO a TWOP 50	50	15	360	332	110	250	200	60	56	
TWO a TWOP 75	70	37	360	332	110	250	200	60	81	
TWO a TWOP 110	100	85	360	332	160	250	200	60	116	
TWO a TWOP 125	125	111	360	332	160	250	200	60	131	

Penetration for cables and base plate

Type	DN	Section [cm ²]	Dimensions [mm]							
			a*	b*	c	d	e*	f*	g	h
TWP a TWOD 50	50	15	450	332	260	250	200	90	60	56
TWP a TWOD 75	70	37	480	332	310	250	200	90	60	81
TWP a TWOD 110	100	85	520	332	400	250	200	100	60	116
TWP a TWOD 125	125	111	545	332	440	250	200	100	60	131

* optionally extension up to 1500 mm to order



Vents, sewerage ventilation, penetrations for cables with integrated bitumen sleeve

BIT

	Version	Type	Dimensions
	TOPWET roof vent with an integrated sleeve of modified bitumen strip, including a rain cap. Height 300 mm, option of extension up to 500 mm on request.	TWO 50 BIT TWO 75 BIT TWO 110 BIT TWO 125 BIT DN 150 page 40	DN 50 DN 70 DN 100 DN 125
	TOPWET sewerage ventilation for connection to vent piping with an integrated sleeve of modified bitumen strip, including a rain cap. Height above insulation 300 mm (custom made 500 mm), depth under insulation 200 mm, option of extension up to 1500 mm on request. In combination with TWOD usable from 160 mm thermal insulation height.	TWOP 50 BIT TWOP 75 BIT TWOP 110 BIT TWOP 125 BIT DN 150 page 40	DN 50 DN 70 DN 100 DN 125
	TOPWET penetration for cables with an integrated sleeve of modified bitumen strip. Depth under insulation 200 mm, above insulation up to 500 mm, option of extension up to 1500 mm on request. In combination with TWOD usable from 160 mm thermal insulation height.	TWP 50 BIT TWP 75 BIT TWP 110 BIT TWP 125 BIT DN 150 page 40	DN 50 DN 70 DN 100 DN 125
	Penetration through the vapor barrier TOPWET to connect TWOP and TWP to the vapor barrier with an integrated sleeve of modified bitumen strip. Depth under insulation 200 mm, option of extension up to 1500 mm on request. This product can not be used as a penetration element for the lower structure.	TWOD 50 BIT TWOD 75 BIT TWOD 110 BIT TWOD 125 BIT DN 150 page 40	DN 50 DN 70 DN 100 DN 125

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.
Extended version subject to price increase. Please contact us for further details.

Vents, sewerage ventilation, penetrations for cables with integrated PVC and PE sleeve

PVC

	Version	Type	Dimensions
	TOPWET roof vent with an integrated sleeve of hydro-insulation foil based on PVC, including a rain cap. Height 300 mm, option of extension up to 500 mm on request.	TWO 50 PVC TWO 75 PVC TWO 110 PVC TWO 125 PVC DN 150 page 40	DN 50 DN 70 DN 100 DN 125
	TOPWET sewerage ventilation for connection to vent piping with an integrated sleeve of hydro-insulation foil based on PVC, including a rain cap. Height above insulation 300 mm (custom made 500 mm), depth under insulation 200 mm, option of extension up to 1500 mm on request. In combination with TWOD usable from 160 mm thermal insulation height.	TWOP 50 PVC TWOP 75 PVC TWOP 110 PVC TWOP 125 PVC DN 150 page 40	DN 50 DN 70 DN 100 DN 125
	TOPWET penetration for cables with an integrated sleeve of hydro-insulation foil based on PVC. Depth under insulation 200 mm, above insulation up to 500 mm, option of extension up to 1500 mm on request. In combination with TWOD usable from 160 mm thermal insulation height.	TWP 50 PVC TWP 75 PVC TWP 110 PVC TWP 125 PVC DN 150 page 40	DN 50 DN 70 DN 100 DN 125
	Penetration through the vapor barrier TOPWET to connect TWOP and TWP to the vapor barrier with an integrated sleeve of hydro-insulation foil based on PE. Depth under insulation 200 mm, option of extension up to 1500 mm on request. This product can not be used as a penetration element for the lower structure.	TWOD 50 PE TWOD 75 PE TWOD 110 PE TWOD 125 PE DN 150 page 40	DN 50 DN 70 DN 100 DN 125

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.
Extended version subject to price increase. Please contact us for further details.

Vents and penetrations

Ventilation of roofs, sewerage and cable penetrations



- A simple construction for effective ventilation of two-membrane roofs
- Anchoring points for fixed anchoring in the load-bearing structure of the roof membrane
- Integrated waterproof sleeve for reliable connection to the roofing
- Professional products from a UV stable material
- Usable for all the common ventilation pipes DN 150
- A reliable solution for leading the cables and other media carriers to the roof
- Professional penetration through waterproof not requiring any checks or maintenance

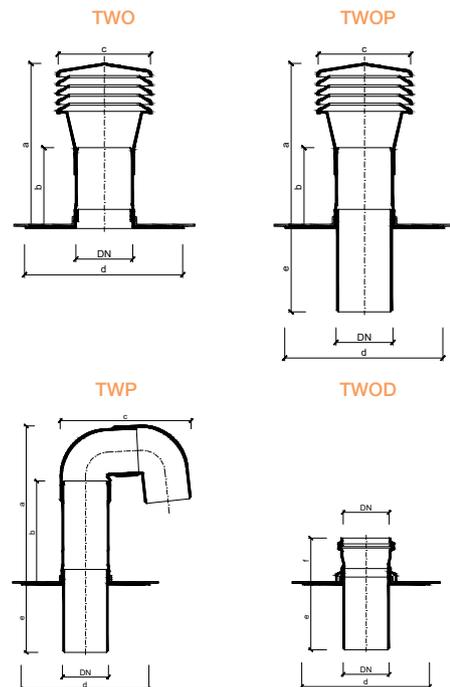
Ventilation of flat roofs and sewerages

Type	DN	Cross section [cm ²]	Dimensions [mm]				
			a*	b*	c	d	e*
TWO a TWOP 160	150	186	510	270	260	345	300

Cable penetrations and the baseplate

Type	DN	Cross section [cm ²]	Dimensions [mm]					
			a*	b*	c	d	e*	f*
TWP a TWOD 160	150	186	610	420	450	345	300 (200**)	125

* extension up to 1500 mm on request
 ** length by the TWOD product



Vents, sewerage ventilation, penetrations for cables with an integrated bitumen sleeve

BIT

	Version	Type	Dimensions
	TOPWET roof vent with an integrated sleeve of a modified bitumen strip, including a rain cap. Height 300 mm, option of extension up to 500 mm on request.	TWO 160 BIT	DN 150
	TOPWET sewerage ventilation for connection to the ventilation pipe with an integrated sleeve modified bitumen strip, including a rain cover. The height above the insulation is 300 mm (custom made 500 mm), the depth below the insulation is 300 mm, on request it is possible to extend up to 1500 mm.	TWOP 160 BIT	DN 150
	TOPWET penetration for cables with an integrated sleeve modified bitumen strip, including a rain cover. Depth below the insulation is 300 mm, above the insulation up to 500 mm, on request it is possible to extend up to 1500 mm.	TWP 160 BIT	DN 150
	Penetration through the vapor barrier TOPWET to connect TWOP and TWP to the vapor barrier with an integrated sleeve of modified bitumen strip. Depth under insulation 200 mm, option of extension up to 1500 mm on request. This product can not be used as a penetration element for the lower structure.	TWOD 160 BIT	DN 150

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.
Extended version subject to price increase. Please contact us for further details.

Vents, sewerage ventilation, penetrations for cables with an integrated PVC and PE sleeve

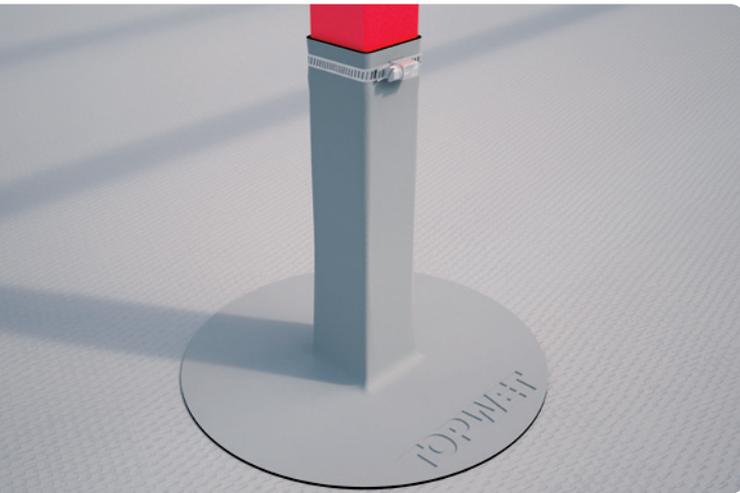
PVC

	Version	Type	Dimensions
	TOPWET roof vent with an integrated sleeve of hydro-insulation foil based on PVC, including a rain cap. Height 300 mm, option of extension up to 500 mm on request.	TWO 160 PVC	DN 150
	TOPWET sewerage ventilation for connection to the ventilation pipe with an integrated sleeve waterproof membrane on PVC basis, including a rain cover. The height above the insulation is 300 mm (custom made 500 mm), the depth below the insulation is 300 mm, on request it is possible to extend up to 1500 mm.	TWOP 160 PVC	DN 150
	TOPWET penetration for cables with an integrated sleeve waterproof membrane on PVC basis, including a rain cover. Depth below the insulation is 300 mm, above the insulation up to 500 mm, on request it is possible to extend up to 1500 mm.	TWP 160 PVC	DN 150
	Penetration through the vapor barrier TOPWET to connect TWOP and TWP to the vapor barrier with an integrated sleeve of hydro-insulation foil based on PE. Depth under insulation 200 mm, option of extension up to 1500 mm on request. This product can not be used as a penetration element for the lower structure.	TWOD 160 PE	DN 150

Option to supply with custom made sleeve (EPDM, TPO, FPO, PE, ECB, EVA, STE – suitable for liquid waterproofing). For more information please see page 9.
Extended version subject to price increase. Please contact us for further details.

Sealing sleeves – shaped pieces for waterproofing penetrations through PVC membranes

System solution for penetration of hydro-insulation layer



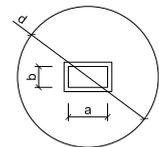
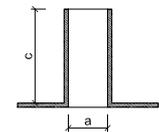
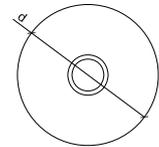
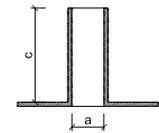
Shaped pieces

- Wide range of dimensions
- Open design for penetrations without a put on possibility
- Height of all shaped pieces 150 mm
- System treatment of penetrations
- For round and squared penetrations

Sealing sleeves – shaped pieces for waterproofing penetrations of PVC membranes

Type = Dimensions „a“ [mm]	Dimensions [mm]	
	c**	d***
TWUT a TWOT 11*, 12*, 14*, 15, 16, 17, 18, 20, 21, 22, 24, 25, 30	150	150
TWUT a TWOT 32, 35, 40, 42, 43, 45, 50	150	150
TWUT a TWOT 51, 56, 60, 63, 65, 70, 72, 75, 76, 77, 80	150	180
TWUT a TWOT 83, 90, 100, 102, 105, 110, 114	150	250
TWUT a TWOT 120, 125, 130, 138, 140, 150, 160, 170	150	275
TWUT a TWOT 180, 200	150	350

Type = Dimensions „a“ x „b“ [mm]	Dimensions [mm]	
	c**	d***
TWUT a TWOT 8x35, 8x40, 10x30, 10x35, 10x40, 15x15, 16x16, 20x20, 15x35	150	150
TWUT a TWOT 15x40, 20x35, 20x40, 25x25, 25x30, 25x35, 30x30, 27x40, 30x40, 35x35	150	150
TWUT a TWOT 10x60, 8x50, 15x50, 15x60, 10x50, 20x50, 20x60, 25x45, 25x50, 30x50	150	180
TWUT a TWOT 30x60, 35x50, 40x40, 40x45, 40x50, 40x55, 40x60, 45x45, 50x50, 20x70, 35x70	150	180
TWUT a TWOT 40x70, 50x70, 8x80, 25x80, 40x80, 50x80, 8x90, 10x90, 10x100, 60x60, 15x100	150	250
TWUT a TWOT 55x85, 70x70, 80x80, 40x90, 50x100, 60x100, 10x120, 60x120, 10x140	150	250
TWUT a TWOT 50x150, 100x100, 50x120, 60x120, 70x120, 120x120, 75x145, 15x150, 10x160	150	275
TWUT a TWOT 100x150, 120x140, 80x160	150	300
TWUT a TWOT 140x140, 150x150, 160x160	150	350



* only closed sealing sleeves ** on request can be delivered at a height of 300 mm *** on request can be delivered in diameters up to 350 mm

Sealing sleeves – shaped pieces for waterproofing penetrations through PVC membranes

Accessories

	Version	Type (inner diameter / dimensions in mm)
	<p>Closed round shaped piece of PVC film designed for processing the penetration elements. The type indicates the internal diameter of the shaped piece in mm. The height of all cuffs is 150 mm. Material: homogenous foil based on mPVC, thickness of 1.5 mm. Color execution: light gray finish, the approximate number according to RAL 7035.</p>	<p>TWUT 11, 12, 14, 15, 16, 17, 18, 20, 21, 22, 24, 25, 30, 32, 35, 40, 42, 43, 45, 50, 51, 56, 60, 63, 65, TWUT 70, 72, 75, 76, 77, 80, 83, 90, 100, 102, 105, 110, 114, 120, 125, 130, 138, 140, 150, 160, 170, 180, 200</p>
	<p>Closed square shaped piece of PVC film designed for processing the penetration elements. The type indicates the internal dimensions of the shaped piece in mm. The height of all cuffs is 150 mm. Material: homogenous foil based on mPVC, thickness of 1.5 mm. Color execution: light gray finish, the approximate number according to RAL 7035.</p>	<p>TWUT 8x35, 8x40, 8x50, 8x80, 10x30, 10x35, 10x40, 10x50, 10x60, 10x90, 10x100, 12x100, 10x120, 50x120, 70x120, 10x140, 140x140, 10x160, 15x15, 15x35, 15x40, 15x50, 15x60, 15x80, 15x100, 15x150, 16x16, 17x82, 18x83, 20x20, 20x35, 20x40, 20x50, 20x60, 20x70, 25x25, 25x30, 25x35, 25x45, 40x45, 25x50, 27x40 TWUT 30x30, 30x40, 30x50, 30x60, 35x35, 35x50, 35x55, 35x70 TWUT 40x40, 40x50, 40x55, 40x60, 40x70, 40x80, 45x45, TWUT 50x50, 50x70, 50x80, 50x100, 50x150, 55x85, TWUT 60x60, 60x100, 60x120, 70x70, 75x145, 80x80, 80x160, TWUT 100x100, 100x150, 120x120, 120x140, 150x150, 160x160</p>
	<p>Open round shaped piece of PVC film designed for processing the penetration elements. The type indicates the internal diameter of the shaped piece in mm. The height of all cuffs is 150 mm. Material: homogenous foil based on mPVC, thickness of 1.5 mm. Color execution: light gray finish, the approximate number according to RAL 7035.</p>	<p>TWOT 15, 16, 17, 18, 20, 21, 22, 24, 25, 30, 32, 35, 40, 42, 43, 45, 50, 51, 56, 60, 63, 65, 70, 72, 75, 76, 77, 80, 83, TWOT 90, 100, 102, 105, 110, 114, 120, 125, 130, 138, 140, 150, 160, 170, 180, 200</p>
	<p>Open square shaped piece of PVC film designed for processing the penetration elements. The type indicates the internal dimensions of the shaped piece in mm. The height of all cuffs is 150 mm. Material: homogenous foil based on mPVC, thickness of 1.5 mm. Color execution: light gray finish, the approximate number according to RAL 7035.</p>	<p>TWOT 8x35, 25x35, 8x40, 25x45, 8x50, 8x80, 8x90, 10x30, 10x35, 10x40, 10x50, 10x60, 25x80, 10x90, 10x100, 10x120, 10x140, 10x160, 15x15, 15x35, 15x40, 27x40, 40x45, 15x50, 15x60, 40x90, 15x100, 15x150, 70x120, 16x16, TWOT 20x20, 20x35, 20x40, 20x50, 20x60, 20x70, 25x25, 25x30, 25x50, TWOT 30x30, 30x40, 30x50, 30x60, 35x35, 35x50, 35x70, TWOT 40x40, 40x50, 40x55, 40x60, 40x70, 40x80, 45x45, TWOT 50x50, 50x70, 50x80, 50x100, 50x120, 50x150, 55x85, TWOT 60x60, 60x100, 60x120, 70x70, 75x145, 80x80, 80x160, TWOT 100x100, 100x150, 120x120, 120x140, 140x140, 150x150, 160x160</p>
	<p>Closed round shaped piece of PVC foil designed for treatment of cable penetrations with diameter up to 11 mm. The shaped piece height is 300 mm. Base diameter 150 mm.</p>	<p>TWUT 11/300</p>

Fittings must always be stabilized against the effects of wind suction. For more information, see the assembly instructions at www.topwet.cz

Sealing sleeves – shaped pieces for waterproofing penetrations through TPO membrane

Adjustment of penetrations



Shaped pieces

- Unique production technology
- Round versions only
- Wide range of small dimensions
- System treatment of penetrations

Adjustment of penetrations and solution of details made of TPO foil

Accessories



Version

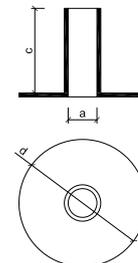
Closed round sleeve made of TPO-based foil designed for adjustment penetrations. The type indicates the inner diameter of the fitting in mm. Height of all cuffs 300 mm. Material: foil based on TPO th. 1.5 mm, types of foils are listed below. More information at www.topwet.eu

Type

TWUT 11, 12, 14, 15, 16, 17, 18, 20, 21, 22, 24 TPO (FPO)
 TWUT 25, 30, 32, 35, 40, 42, 43, 50, 60, 65, 70 TPO (FPO)
 TWUT 75, 80, 90, 100, 110 TPO (FPO)
 TWUT 120, 125, 130, 140, 150, 160, 170, 180, 200 TPO (FPO)

Dimensions of sealing sleeves - fittings for penetrations of waterproofing from TPO foils

Type = Dimensions „a“ [mm]	Dimensions [mm]	
	c	d
TWUT 11, 12, 14, 15, 16, 17, 18, 20, 21, 22, 24 TPO (FPO)	300	200
TWUT 25, 30, 32, 35, 40, 42, 43, 50, 60, 65, 70 TPO (FPO)	300	250
TWUT 75, 80, 90, 100, 110 TPO (FPO)	300	300
TWUT 120, 125, 130, 140, 150, 160, 170, 180, 200 TPO (FPO)	300	350



Fittings must always be stabilized against the effects of wind suction. For more information, see the assembly instructions at www.topwet.cz

Standard foil for the production of cuffs based on TPO

Accessories

	Producer	Order code	Material	Approximate RAL
	Bauder	TWUT__FPO THERMOPLAN GREY	FPO	7001
	Bauder	TWUT__FPO THERMOPLAN PEARL WHITE	FPO	1013
	Mapei	TWUT__TPO MAPEPLAN WHITE	TPO	9010
	Mapei	TWUT__TPO MAPEPLAN DARK GREY	TPO	7012
	Sika	TWUT__FPO SARNAFIL GREY	FPO	7040
	Elevate	TWUT__TPO ULTRAPLY WHITE	TPO	9010

Note: These are roofing foils with a reinforcing insert.

Adjustment of penetrations and details

Other roof elements



Details

- Adjustment of inner and outer corners

Endless jubilee bands

- Designed for highly corrosive places
- The endless band enables the production of clips in any diameter

Heat shrink tubes

- New dimensions 265/75
- UV stabil
- Penetration waterproofing on the roof
- System solution

Adjustment of penetrations and solution of details from PVC foil

Accessories

	Version	Type
	Cone (KUZ) and a bellows (VLN) fittings of homogenous foil based on mPVC. Color: SV – light grey, TM – dark grey	TW KUZ TW VLN
	Endless jubilee band completely made of stainless steel with independent lock pieces enable production of jubilee bands of any diameter. Locks packed by 25 pcs. Band length 3 m or 25 m. Material: stainless chromium-nickel steel. The lock pieces have a zinc coated stainless steel screw. Zinc serves as a lubricant, without this the clamp is hard to tighten.	TWSP NEK 3 – band width 8 mm TWSP NEK 25 – band width 8 mm TWSP ZAM – band width 8 mm TWSP NEK 25 s14 – band width 14 mm TWSP ZAM s14 – band width 14 mm
	Heat shrink tube with glue for general use in the temperature range from -55 ° C to 105 ° C. Made from modified polyolefin. The tubes are highly resistant to solvents and chemicals. Suitable for universal industrial usage or as an electrical protection of all types of plastic cables. The minimum shrink temperature of 120 ° C using hot air or soft yellow flame. The dimension marked with * is the dimension for the maximum shrink.	TWH 22/6* TWH 115/34* TWH 33/8* TWH 140/42* TWH 55/16* TWH 160/50* TWH 75/22* TWH 180/58* TWH 95/25* TWH 235/65* TWH 265/75*

Edge dividers

Other roof elements

- For roofs with load increasing layer of gravel and pavement profile completion
- Aluminum moulding for all types of waterproof systems
- A wide selection of dimensions
- Custom production
- Easy installation
- Connecting piece as a part of each moulding
- The length of 2 m
- Custom made TPO versions



Edge dividers

Accessories



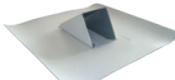
Version	Type	Dimensions of moulding: height / base / length
Edge dividers for roofs with a load increasing layer of gravel and the completion of the pavement profile. Material: Aluminum with the thickness of 1,5 mm, the length of the moulding of 2000 mm. The moulding has holes – every 250 mm - for the passage of the blank of all kinds of waterproof systems. The stiffness of the moulding is secured by 10 mm bending at the ends of both arms. Supplied with connecting piece for easy connection to another moulding; the delivery time of the custom moulding depends on the ordered quantity. Mounting the moulding to the base is done using a waterproof tape. Maximum height of product to order is 200 mm.	TW KL AL 30 TW KL AL 40 TW KL AL 50 TW KL AL 60 TW KL AL 70 TW KL AL 80 TW KL AL 90 TW KL AL 100 TW KL AL __	30 mm / 65mm / 2000 mm 40 mm / 65mm / 2000 mm 50 mm / 65mm / 2000 mm 60 mm / 65mm / 2000 mm 70 mm / 65mm / 2000 mm 80 mm / 80mm / 2000 mm 90 mm / 80mm / 2000 mm 100 mm / 80mm / 2000 mm __ mm / 80mm / 2000 mm
Edge dividers for roofs with a load increasing layer of gravel and the completion of the pavement profile for roofs and terraces with the main PVC waterproof layer. Material: plastic-coated metal sheet with the total thickness of 1,6 mm, length of the moulding of 2000 mm. The stiffness of the moulding is secured by bending of 10 mm at ends of both arms. Supplied with connecting piece for easy connection of another moulding. The delivery time of the custom made moulding is depending on the ordered quantity. At the moulding there are high frequency welded 3-5 pieces of blanket of foil mPVC 80x130 mm for easy mounting. A different color execution is available for a surcharge of +20 %. In other colour implementation, pieces of blanket of the mPVC foil are not part of the edge dividers.	TW KL 40 TW KL 50 TW KL 65 TW KL 90	40 mm / 65mm / 2000 mm 50 mm / 65mm / 2000 mm 65 mm / 65mm / 2000 mm 90 mm / 65mm / 2000 mm
The package of aluminum skirting boards from a height of 130 mm includes an inclined strut, which prevents deformation of the bar due to forces acting on it. The package includes 4 pieces of struts, including 8 pieces of anchoring rivets, which are used for anchoring. The struts are distributed evenly along the length of the bar.	TW KL AL VZPER	The size of the strut is variable according to the height of the bar

Other roof elements

Catchers, supports, penetrations and other accessories

Snow catcher for roofs with the main PVC waterproof sleeve

Accessories

Image	Version	Type	Delivery time /minimum purchase
	Metal sheet snow catcher. A shaped piece for catching of snow layer and protecting its sliding from the roof structure, for roofs with the main waterproof sleeve of PVC. Light grey colour.	TW SZ TW SZ 250x250	3 days / 5 pcs 4 weeks / 50 pcs
	Metal sheet snow catcher with an integrated waterproof sleeve. A shaped piece for catching of snow layer and protecting its sliding from the roof structure, for roofs with the main waterproof sleeve of PVC. Light grey colour.	TW SZM TW SZM 250x250	3 days / 5 pcs 4 weeks / 50 pcs
	Metal sheet snow catcher. A shaped piece for catching of snow layer and protecting its sliding from the roof structure, for roofs with the main waterproof sleeve of PVC. RAL colours.	TW SZ RAL	4 weeks / 50 pcs

* Version z vybraných druhů TPO/FPO materiálů na dotaz

Snow catcher for roofs with the main PVC waterproof layer - other

Image	Version	Type	Delivery time /minimum purchase
	Holder for tubular snow trap with an integrated sleeve of foil based on mPVC made of the stainless steel, designed for mounting and fixing of one or two pipes with the diameter of up to 28 mm. The system design should always be made by a responsible designer, depending on particular conditions. Piping is not included in the supply.	TW SZ 2TR	3 weeks / 3 ks

Lightning conductor holder



Version	Type	Height
A plastic holder for lightning conductors for fitting the conductors on flat roofs. Colour: grey, black, green or red. It can be supplied with a cut-out part of the mPVC foil sleeve.	TW HR 10 TW HR 12 TW HR 10 + MANŽETA TW HR 12 + MANŽETA	120 mm 120 mm 120 mm 120 mm

Foil cleaner on mPVC basis



Version	Type	Volume
Highly effective foil cleaner on PVC basis.	TW CLEANER 5 TW CLEANER 1 TW CLEANER 0,25	5 l 1 l 0,25 l

Other roof accessories

NEWS

Formwork element for roof outlets



Version

The formwork polyurethane part is designed to create a suitable bed in the load-bearing roof construction for installing vertical roof drains. No core drilling, thermal bridges and the consumption of heat insulator around the outlet are eliminated

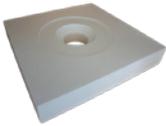
Type

TW BED

Dimensions

500x500x220mm

Heat insulating element for roof extensions



Version

The heat insulating element made of EPS 150 polystyrene foam is intended for extension pieces for the roof outlet. The size of the part is 600 x 600 x 100 mm.

Type

TWN TI

Dimensions

600x600x100mm

Aluminium shafts



Version

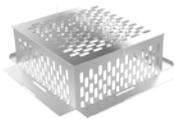
Aluminum shafts for roof and sanitation outlets, for roofs with a gravel. Dimensions 250x250 mm, height 100 mm and 200 mm.

Type

TWS 250x250x100
TWS 250x250x200

Dimensions

250x250x100 mm
250x250x200 mm



Aluminum shafts with grid for roof and sanitation outlets, for roofs with a gravel. Dimensions 250x250 mm, height 100 mm and 200 mm.

TWS 250x250x100+TWSK
TWS 250x250x200+TWSK

250x250x100 mm
250x250x200 mm

Aluminum shafts for roof and sanitation outlets, for roofs with a gravel. Dimensions 300x300 mm, height 100 mm and 200 mm.

TWZ AL 300x300x100
TWZ AL 300x300x200

300x300x100 mm
300x300x200 mm

Ventilation turbines

Ventilation turbines



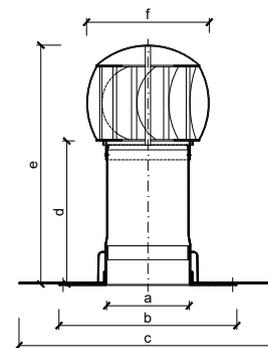
NEWS

- For air ventilation (even with very high humidity), cellars, garages, radon subsoil, bathroom, toilets, roof parts, sewerage, etc.
- Polyamide PA6 and PVC base with integrated insulation sleeve as required
- Turbine made of UV-stable ASA polymer in black
- Greater suction power than conventional vents

Ventilační turbína TOPWET

Type	Dimensions [mm]						Suction power	
	a	b	c	d*	e	f	v [km/h]**	V [m ³ /h]***
TWO TUR 160 BIT	160	345x345	500x500	241	463	236	3	51
							6	142
							8	182
							10	248
TWO TUR 160 PVC	160	345x345	500x500	241	463	236	3	51
							6	142
							8	182
							10	248

* custom made extension up to 500 or 1000 mm
 ** air speed, *** air amount



Version

TOPWET ventilation turbine with an integrated sleeve made of modified bitumen strip. Height above insulation 250 mm.

TOPWET ventilation turbine with integrated sleeve made of mPVC-based waterproofing foil. Height above insulation 250 mm.

Type

TWO TUR 160 BIT

TWO TUR 160 PVC

Dimensions

DN 150

DN 150

Solutions for multi storey car parks – traverse outlets

Drainage of car parks and traverse areas

Travers outlets and attachments

- Made of stainless steel
- Extreme mechanical resistance against damage
- Can be supplied in a heated version, see page 11

Traverse grates

- Divided according to the permitted load: up to 1.5 t and up to 12 t
- Removable grate for easy cleaning and inspection



Solutions for multi storey car parks – traverse outlets

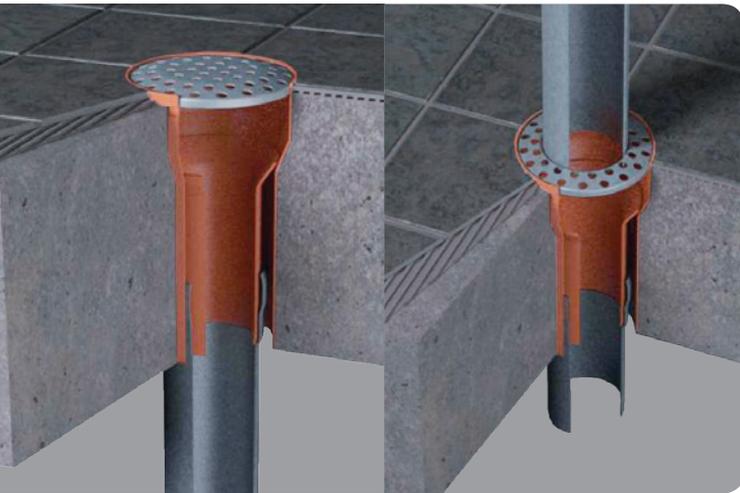
Accessories



Version	Type	Dimensions
Traverse grate for traverse outlets and attachments version up to 1.5 t and up to 12 t.	TW ROST 110 TW ROST 110 12T TW ROST 125 TW ROST 125 12T	Up to 1,5t Up to 12,5t Up to 1,5t Up to 12,5t
Drainage ring for drainage layers in traverse roofs.	TW ODK POJEZD 110 TW ODK POJEZD 125	DN 100 DN 125
Attachment for the traverse gate for car parks, traverse areas, garages and multi-storey car parks. The attachment is made of stainless steel.	TWN POJEZD 110 TWN POJEZD 125	DN 100 DN 125
Traverse outlet for car parks, traverse areas, garages and multi-storey car parks. The outlet is made of stainless steel.	TW POJEZD 110 TW POJEZD 125	DN 100 DN 125
Transitional part for connecting the traverse outlet to a KG/HT pipe.	TW TRANS 110 TW TRANS 125	DN 100 DN 125

Continuous balcony outlets and steel pipes

Drainage of balconies and terraces



- A continuous drainage system enables draining water from the individual balconies without using a side connection for every floor
- The outlets and pipes are made from hot-dip galvanized steel, which ensures higher mechanical resistance against external influences
- Simple assembly and maintenance
- Connection to KG and HT systems using a simple transitional piece
- Preparation of a technical solution for a specific construction free of charge

LORO waste piping

Version



LORO waste piping from hot-dip galvanized steel with an internal layer from two-component epoxide of reddish brown colour with a deep flange for connecting pipes, supplied without an O-ring. The piping DN 50–150 is supplied in the length from 250 to 3000 mm.

It can be supplied including all the accessories, elbows, branching, sleeves, reductions, transmission pieces etc.

Technical advice about the system and assistance at the stage of project documentation is provided within the scope of technical support free of charge.

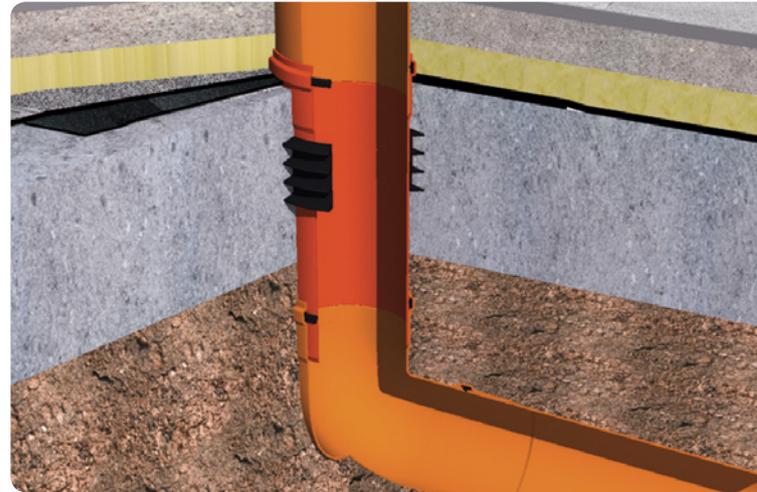
Accessories



Penetrations for the substructure

Solution with an integrated waterproof sleeve

- Systematic and reliable solution
- Full technical support
- For any penetration, custom-made solution
- Made from solid materials
- Resistant to abrasion
- High strength and rigidity, shock-proof and resistant to pressure
- Trouble-free installation at low temperature



Penetrations for the substructure

Version



Penetrations through the substructure. Fittings for both a white tub and a black tub. Possible solution of any penetration, such as penetrations for KG/HT sewer pipes, water pipes, gas pipes, power cables etc.

We offer free of charge technical consultancy for the whole system, assistance at the stage of project documentation and calculation of individual price quotes.

Accessories



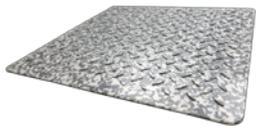
Anti-slide pavements

Safe movement on a flat roof



- For easy creating of anti-slide routes
- Highly durable and maintenance-free PVC product
- Intended for flat roofs with the main hydro-insulation layer from an mPVC based foil
- The size of each element is 600 x 600 mm
- Elements are UV resistant
- Board thickness 7 mm
- Connected with the roof surface by means of hot air
- Color versions: gray brindle

Anti-slide pavements



Version

TW WALK

Walkable part designed for the creation of corridors on the roof surface with the main waterproofing layer made of mPVC-based foil. Standardized dimensions 600 x 600 mm, thickness 7 mm. Colour: gray brindle

Type marking

TW-WALK

What are the benefits of this product?

- Excellent resistance to weathering, including UV radiation
- Deep surface texture for high slip resistance
- Easy drainage of rainwater
- Weldability with FATRAFOL PVC-P films with hot air
- Easy and quick installation

What are the reasons why the use of anti-slide pavements can be beneficial?

- Prevention of damage to the roof surface
- Extending the service life of the waterproofing layer
- Workers safety and reduction of risk injuries
- Accessibility for maintenance and service
- Compliance with regulation and standards

TOPSAFE®



What services are provided in TOPSAFE

Proposals, implementation & support



- We provide own delivery and assembly of anchoring points
- Available net of trained certified assembly companies
- We perform inspections and revisions of installed systems
- Elaboration of design proposals free of charge
- Proposal of safety solutions determined to your roof
- Details of anchoring points in DWG for free of charge download
- We offer only stainless steel products certified in accordance with valid standards

Why must safety be ensured on roofs?

Fulfillment of standard and legislative requirements:

- Government Regulation No. 362/2005 Coll., regarding safety and health protection at work
- ČSN 73 1901-1 Roof designing
- Act No. 88/2016 Coll., which regulates other requirements for safety and health protection at work

When fall protection is necessary?

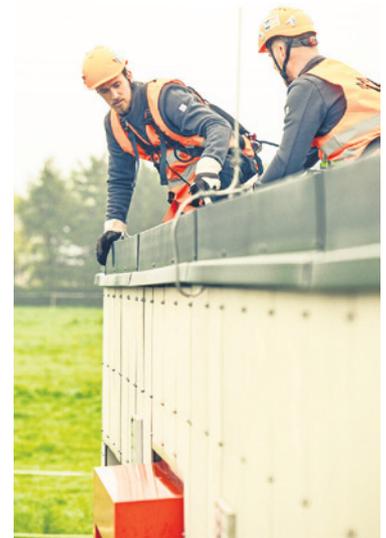
For height differences of more than 1.5 m, if there is a risk of:

- falling from the roof edge
- sliding off the roof at a slope of more than 25 degrees
- falling through the roof (e.g. roof skylight)

What are the requirements for anchor points?

- certification according to the ČSN EN 795 standard carried out in an accredited testing laboratory
- must resist corrosion - the most suitable is the stainless steel type, incl. anchoring materials

We are able to propose a specific solution for your roof free of charge



The key to correctly determining the anchor points

Roof structure

- specifications of the supporting structure and covering
- thermal insulation thickness

Element location

- endpoint, corner point
- intermediate

For safe and correct functionality of the safety system it is not enough just to choose a suitable anchor point. The entire proposal is needed adapt to all the requirements and conditions of a specific building.

We are able to propose a specific solution for your roof free of charge



Marking of TOPSAFE products for easy selection



Can be complemented with a reinforcing pipe – then it can be used as end and turn points in the systems with permanent anchoring lines from a stainless steel rope



Suitable for use as end and turn points in the systems with permanent anchoring lines from a stainless steel rope



Suitable for use only as an intermediate point in the straight sections in the systems with permanent anchoring lines from a stainless steel rope



Made of stainless steel



Suitable for use as corner and turn points in the systems with permanent anchoring lines from a stainless steel rope



Maximum number of users attached to the anchoring device



Can be loaded in both vertical and horizontal direction



Can be loaded in horizontal / vertical direction

Anchoring points for trapezoid and sandwich constructions



TSL-xxx-T10

Trapezoid sheet metal with the minimum thickness of 0.5 mm



TSL-xxx-SWSR10

Sandwich panels. Trapezoid sheets with minimum thickness of 0,5 mm



TSL-xxx-TX10

Trapezoid sheet metal with the minimum thickness of 0.5 mm



TSL-R

Sheet metal with the minimum thickness of 0.45 mm



TSL-xxx-SW10

Sandwich panels. Trapezoid sheets with minimum thickness of 0,5 mm



TSL-T6

Trapezoid sheet metal with the minimum thickness of 0.75 mm



XXX - height in mm

Anchoring points for wooden constructions



TSL-xxx-H1016

Boarding from wooden plank with the min. thickness of 24 mm, OSB boarding with the min. thickness of 18 mm

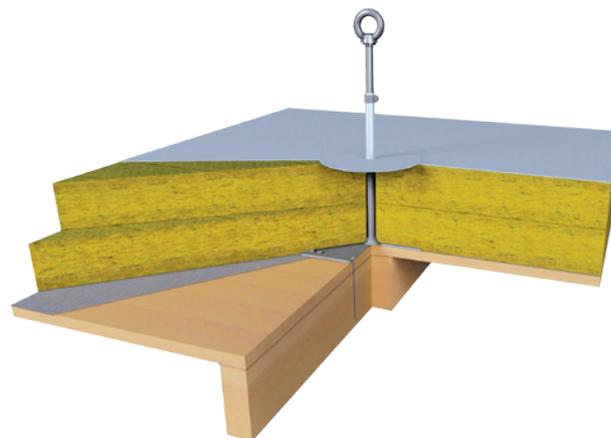


TSL-xxx-HSL3

A wooden girder (rafter) with the minimum dimensions of 100 x 120 mm



XXX - height in mm



Anchoring points for concrete construction



TSL-XXX-BE3

Concrete slab/girder of minimum thickness of 125 mm



TSL-XXX-B3

Concrete slab/girder of minimum thickness of 140 mm



TSL-XXX-BSR10

Concrete slab/girder of the minimum thickness of 80 mm



TSL-XXX-HD10

Hollow panels with the minimum thickness of the hollow covering layer of 25 mm



TSL-XXX-K10

Anchorage by clenching



XXX -height in mm



TSL-XXX-STK10

Anchorage by clenching



TSL-XXX-BSL3

Concrete slab with the minimum thickness of 110 mm



TSL-RB3

Concrete slab with the minimum thickness of 130 mm



TSL-B4

Concrete slab with the minimum thickness of 130 mm



TSL-B5

Concrete slab with the minimum thickness of 80 mm



Anchoring points for inclined roofs



TSL-DH04P

Wooden girder (rafter) with the minimum dimensions of 60 x 120 mm



TSL-DH04Z

Wooden girder (rafter) with the minimum dimensions of 60 x 120 mm



TSL-LOOP

Wooden girder (rafter) with the minimum dimensions of 60 x 120 mm



TSL-F5

Stainless steel and galvanized sheets with minimum thickness of 0,5 mm



TSL-F4

Stainless steel and galvanized sheets with minimum thickness of 0,5 mm



TSL-F4ZW

Stainless steel and galvanized sheets with minimum thickness of 0,5 mm



Anchoring points for rope suspension work



TSL-XXX-BSR10AS

Concrete slab with the minimum thickness of 120 mm



TSL-XXX-STSR10

Minimum slab wide 150 mm



XXX -height in mm



TSL-0-ST3

Minimum steel thickness 5 mm



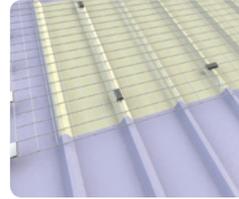
TSL-0-B3

Concrete slab with the minimum thickness of 140 mm

Collective protection



Railing anchored to the base by fusing



Bars for illumination strips



Free-standing railing with weights



Bars for roof skylights

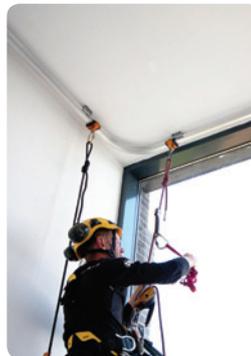
Rail systems, Systems for ladders

Rail systems

- It can also be used as a system for work when suspended on rope
- Smooth movement along the whole length of rail lines
- Possible turning thanks to a curved rail and a special motorized element

Systems for ladders

- Security with every step when moving on a ladder
- Simple solution with high efficiency
- Easy and intuitive use



Industrial systems and Roof access constructions



Industrial systems

- Security of workers in industrial buildings, such as halls, production plants, warehouses etc.
- Possibility of securing footbridges, crane tracks, servicing places and rack systems
- For industrial systems, it is possible to use basic anchoring points specified in the previous chapters according to the types of the base construction

Roof access constructions

- Made of high quality aluminium
- Very light construction compared to stainless steel
- Low static load of building structures





Anchoring points for steel constructions



TSL-XXX-ST3

Steel girder



TSL-XXX-STSR10

Min. flange width 150 mm
Min. steel thickness 5 mm



XXX - výška v mm



TSL-XXX-STSL3

Max. flange width 55 mm (calculated from the vertical part) Min. steel thickness 5 mm



TSL-XXX-STK10

Steel girder with the maximum flange width of 150 mm

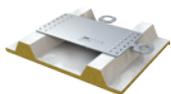


Industrial systems



TSL-STR3

Min. steel thickness 8 mm



TSL-F-333

Trapezoid sheets of minimum thickness 0,5 mm



TSL-TRIPOLE

A mobile tripod used for securing of workers in shafts with the entrance hole.

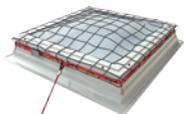


TSL-AA

A system for securing a person, e.g. on a means of transport (a cistern truck etc.).



Special products



TSN-DOME

Protective net against falling through the spotlight and anchor point in one.



TSL-MB

A mobile anchoring point intended for 2 person.



TSL-OT

A stainless steel anchoring point intended for flat roofs (up to the maximum inclination of 10°).



TS-ML

Intended for arresting systems with a temporary flexible anchoring line.

Nets

Safety nets for construction industry

We offer sale and rental of safety nets

Use

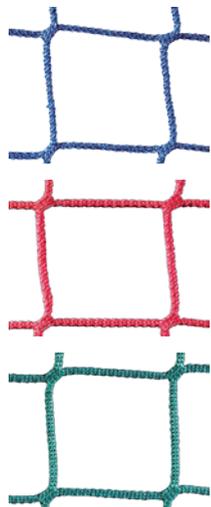
- As a collective protection means against fall during construction of halls, shopping centres and bridges
- Protection of unguarded edges and openings in constructions
- A means of retention on scaffolding
- Protection against fall of material
- As walkable nets with the grid of 45 mm

Advantages

- The connecting means do not make the movement of workers more difficult
- Thanks to a high net deformation, the falling person is caught less hard than in a full-body harness
- Higher safety for workers working under the installed net



Certificated nets types



Product description

Systém S - A safety net with a peripheral rope

It is a basic and most frequent net type intended for fall retention. Safety nets of the system S are attached in the horizontal position by means of suspension ropes or other means on the anchoring points capable of load transfer. The minimum net area is 35 m².

Type marking

TSN-S

Systém U - A safety net connected to the load-bearing construction for vertical use

These nets are supposed to prevent fall of persons or material from height over unguarded edges nearby the edge of the floors, roofs, staircases etc. The standard dimensions are 1.5 - 2 m x the required length. Possibility of easy installation by means of straps. Generally, the installation of these nets is governed by EN 13374.

TSN-U

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