



ITALPROFILI®

Roofing accessories and technology

GENERAL CATALOGUE

BUSINESS PROFILE

Founded in 1976, **ITALPROFILI®** is now Italy's leading supplier of high performance waterproofing accessories for the roofing industry. Our innovative, long-lasting waterproofing solutions and unparalleled technical support have earned us a raft of high profile clients, and a place at the forefront of this dynamic and competitive industry. The result of our great care, and attention to clients, allows us to be successfully present in Italy and several foreign countries, nowadays.

The results of our success have been achieved thanks to the design and use of high technology production methods, in the realization of a complete range of products suitable for all types of roofing whether flat or pitched and, have also enabled us to attain UNI EN ISO 9002/94 certification since 1995.

ITALPROFILI® product range program, includes rain drainage units to cavity wall and roof ventilation to expansion joints for membranes and/or concrete for civil and industrial building coverings and precisely roof drains, air vents for flat and pitched roofs, pipe fittings, bases for prefabricated slabs and adjustable paving support etc.

ITALPROFILI® catalogue has been designed specifically for specialists working in this sector so that they can choose the materials best suited to the applications they come across, and is organized in different categories of materials such as accessories suitable for bituminous membranes, synthetic membranes, cementitious membranes, liquid membranes and so on. The first part of the catalogue includes on-site photographs, drawings of the application of the products and the technical characteristics of the material used, the second part consists of sectional drawings and sections through the installed units, installation manual and brief descriptions of the specification of the materials.

ITALPROFILI'S® NOTE

A lot of countries do not have regulations specifying the execution of a waterproof covering in civil and industrial buildings, both if it is made of multilayered bitumens and membranes. The same is true for the types of accessories such as drain mouths, aerators for ventilation and siphoned wells.

In such a situation, almost always sector workers have to decide to lay the accessories they can find on the market, such as mouths made on appropriated materials and offlimited duration, with flanges unsuitable for the connection of mantles shafts without fins for the adhesion to drain pipes (gaskets) or with very conical shafts. Then, it is natural that inconveniences can occur, such as the disjunction of mantles from accessories, the overflow in case of duct obstruction with consequent damages, cases of steepage of steam or masses of water, the reduction in the capacity of drain pipes downhill, because of the conicity of mouths.

CONCLUSION

Considering the importance of the roof drains and the accessories in waterproofed coverings, ITALPROFILI® believes that they should have the following characteristics to fulfil their functions, to offer a duration guaranty and, of course, to reach the aims of their utilization.

- a) *They should be made of materials (thermoplastic rubber or synthetic rubber, if possible) that can stand various temperatures, the degradation caused by the sun, the ozone, the atmospheric and chemical agents and maintain flexibility at low temperatures and stability at high temperatures, ensuring, in this way, a perfect efficiency for many years.*
- b) *Their conformation will have the following characteristics:*
 - 1) *Mouth: a single piece with flange and shaft.*
 - 2) *The diameter of the entrance pipe (start of shaft) shall be greater than the diameter of the descending pipe (downspout). The shaft shall not be conical.*
 - 3) *The flange with dimensione of at least 12 cm. beyond the circumference of the entrance pipe, shall be flexible and its shape shall be suitable for the connection of membranes and material compatible with them.*
 - 4) *The length of the shaft (sleeve) shall be the same as the thickness of the load bearing support plus 15 cm. to be inserted in the descending-pipe bell.*

Leafguards and/or gravelguards shall have a greater diameter at the mouth entrance and the entrance capacity of grille holes shall be at least 30% higher than the drain pipe capacity.

In states of fact, or in old coverings, it happens that the rain pipe skims or is few centimetres under the plane to be waterproofed, so you are forced to use mouths with short shafts, which must not be conical, otherwise the capacity of the rain drain below is reduced.

They must contain the flexible, incorporated and well positioned flanges in the same shafts, which must exceed the diameter of the descending pipe.

The insertion shall be by pressure, so as to prevent possible overflows of steam or masses of water.

To conclude, the choice of accessories such as roof drains, aerators, etc. is of vital importance to obtain a positive execution of waterproofed coverings.



THE WORLD OF ITALPROFILI...

ITALPROFILI®

**ROOFING ACCESSORIES SUITABLE FOR
APPLICATION WITH BITUMINOUS MEMBRANE
and/or SPREAD BITUMEN**



UNIVERSAL ANTI-BACKUP ROOF DRAIN IN IGOM CE



Art. 24
Leaf-grate and/or gravel-grate suitable for roof drains from mm. 60 Ø to mm. 160 Ø



Art. 26
Suitable for roof drains from mm. 75 Ø to mm. 125 Ø



Art. 82
Perforated ring to fit the gravel-grate from mm. 60 Ø to mm. 160 Ø

EXTRALONG ROOF DRAIN IN IGOM CE



Art. 24



Art. 24.1
Suitable for roof drains from mm. 60 Ø to mm. 200 Ø

UNIVERSAL ANTI-BACKUP ROOF DRAIN IN IGOM CE

"UNIVERSAL" anti-backup roof drain is one of the best systems for connecting rainwater pipes and drains on flat roofs, gutters of multi-pitched roofs, and industrial buildings. It is particularly suitable for use with all kinds of APP or SBS modified bituminous membranes as well as liquid bitumen coatings. The unit has been studied in its smallest details so as to optimize its characteristics thus eliminating problems caused by traditional drains available in the market. The drain is made from IGOM, a compound of synthetic rubbers specially formulated to obtain physical, chemical and technical properties for a flexible product. IGOM has high resistance to UV rays, ozone and other atmospheric and chemical agents.

It can be used in a wide temperature range as it is extremely flexible at low temperatures and stable over time thanks to its physical and mechanical properties, which therefore assure maximum performance throughout its lifespan.

The drain consists of a truncated body available in various diameters solidly attached to the ribbed flange area all made from the same materials to facilitate adhesion of the membrane to the flange.

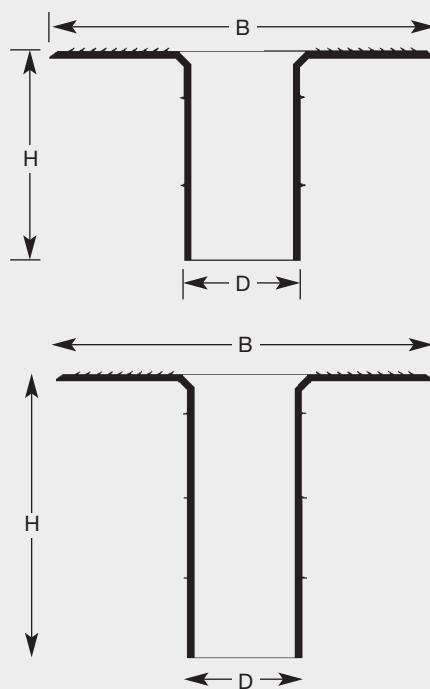
The stem piece of the unit has two or more strategically placed circular ribs which face outwards which when forced into the drain pipe prevent backing-up and form a perfect seal. The seal rings are compressed upwards when inserted into the drain pipe and thanks to this pressure fit they guarantee optimal seal with any type of pipe.

The passage of water vapour or backing up of liquids into the roof system and particularly into the insulation is thus eliminated.

■ **INSTALLATION METHOD PAG. 22**

ART.	110	1	110.1	5	2	6	3	8	4	9	111
DENOM	50	60	2,5"	75	80	90	100	110	125	140	160
B	245	245	300	300	310	320	325	335	350	360	380
H	180	180	180	180	180	180	180	180	180	180	180
D	50	54	63,50	66	73	83	92	100	116	132	148

ART.	150	1.1	13	10	14	11	16	12	17	112
DENOM	50	60	75	80	90	100	110	125	140	160
B	245	245	300	310	320	325	335	350	360	380
H	250	250	250	250	250	250	250	250	250	250
D	42	54	66	73	83	92	100	116	132	148

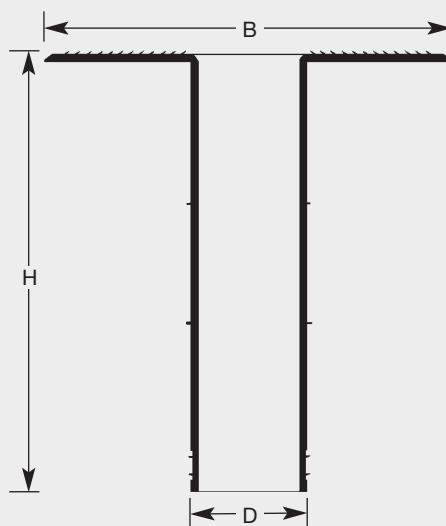


EXTRALONG ROOF DRAIN IN IGOM CE

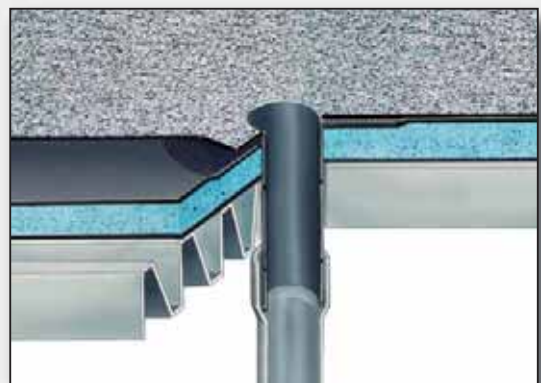
The "EXTRALONG" drain unit shown has the same characteristics as the "Universal" drain, differing only in its construction. The unit has a stem piece 485 mm in length thus avoiding intermediate joints when working with greater thicknesses and when inserted into the drain pipes its capacity is equal to the full diameter chosen. It can be installed before the drain pipes.

■ **INSTALLATION METHOD PAG. 23**

ART.	101	102	103	104
DENOM	80	100	125	140
B	325	350	370	385
H	485	485	485	485
D	80	100	125	140



ANTIBACKUP ROOF DRAIN R WITH MESHED FLANGE



Art. 24
Leaf-grate and/or gravel-grate suitable for roof drains from mm. 60 Ø to mm. 160 Ø



Art. 26
Suitable for roof drains from mm. 75 Ø to mm. 125 Ø



Art. 24.1
Suitable for roof drains from mm. 60 Ø to mm. 200 Ø

UNIVERSAL ANTI-BACKUP ROOF DRAIN R IN IGOM CE

"UNIVERSAL" anti-backup roof drain is one of the best systems for connecting rainwater pipes and drains on flat roofs, gutters of multi-pitched roofs, and industrial buildings. It is particularly suitable for use with all kinds of APP or SBS modified bituminous membranes as well as liquid bitumen coatings, liquid membranes, cementitious waterproofing and polyurethane resins. The drain unit has been studied in its smallest details so as to optimize its characteristics thus eliminating problems caused by traditional drains available in the market. The drain is made from IGOM, a compound of synthetic rubbers specially designed to obtain physical, chemical and technical properties for a flexible product. IGOM has high resistance to UV rays, ozone and other atmospheric and chemical agents.

It can be used in a wide temperature range as it is extremely flexible at low temperatures and stable over time thanks to its physical and mechanical properties, which therefore assure maximum performance throughout its lifetime.

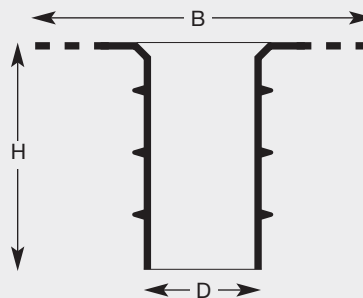
The drain consists of a truncated body available in various diameters solidly attached to the meshed flange net (5 x 5 mm) type to optimize adhesion of the waterproofing system to the flange.

The stem piece of the unit has two or more strategically placed circular ribs which face outwards which when forced into the drain pipe prevent backing-up and form a perfect seal. The seal rings are compressed upwards when inserted into the drainpipe and thanks to this pressure fit they guarantee an optimal seal with any type of pipe.

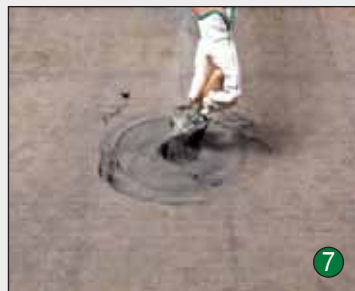
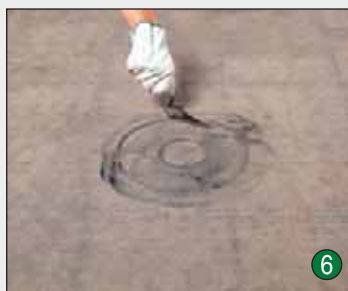
The passage of water vapour or backing up of liquids into the roof system and particularly into the insulation is thus eliminated.

■ **INSTALLATION METHOD PAG. 24**

ART.	150R	1.1R	13R	10R	14R	11R	16R	12R	17R	112R
DENOM	50	60	75	80	90	100	110	125	140	160
B	262	272	285	288	298	307	320	327	343	365
H	250	250	250	250	250	250	250	250	250	250
D	42	54	66	73	83	92	100	116	132	148



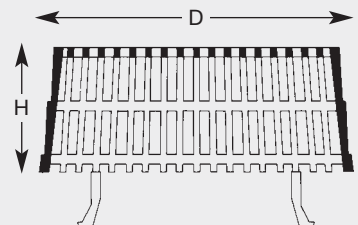
INSTALLATION MANUAL



NEW BACKUP PREVENTER ROOF DRAIN IN IGOM CE



Art. 38
Suitable for diameters to mm. 160



Art. 38 bis
Suitable for diameters to mm. 160



Ring for junction



NEW BACKUP PREVENTER ROOF DRAIN IN IGOM CE

The "NEW" ANTI-BACKUP ROOF DRAIN in IGOM CE is one of the best means of connecting a roof system on flat roofs with gutters of various pitches, of industrial sheds and buildings. It is particularly suitable for applications with all kinds of APP or SBS modified bituminous membranes and liquid applied bituminous coatings.

The drain unit has been studied in its smallest details so as to optimize its characteristics. It has a Ø 170 mm x 300 mm deep funnel and a total length of 330 mm so that it can reach through greater thicknesses of deck and insulation and thus avoiding intermediate jointing. The bell shaped funnel ensures that the whole diameter is available to discharge rainwater and it can be installed before the drain pipe. The design characteristics eliminate problems caused by traditional smaller diameter drains available in the market.

The drain is made from IGOM, a compound of synthetic rubbers specially designed to obtain physical, chemical and technical properties for a flexible product. IGOM has high resistance to UV rays, ozone and other atmospheric and chemical agents.

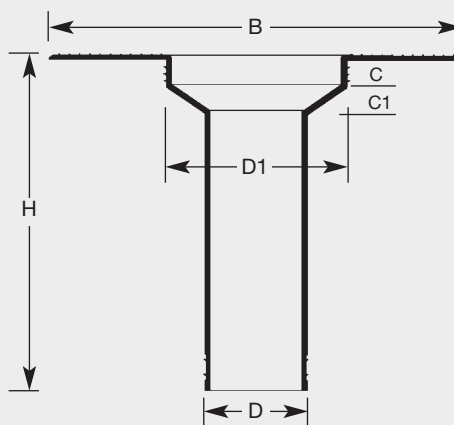
It can be used in a wide temperature range as it is extremely flexible at low temperatures and stable over time thanks to its physical and mechanical properties, which therefore assures maximum performance of the unit throughout its lifetime.

It has been shown that this unit discharges more than 45% more than those without the funnel shape and should be used with bell and spigot type drain pipes and can be installed before the drain pipes.

The unit is supplied with either a large leaf or a gravel grate having a base diameter of 200 mm and a top diameter of 180 mm. They are hooked into a 3 step toothed ring which ensures proper anchorage and also the possibility to vary the height dependent on the thickness of the waterproofing system.

■ **INSTALLATION METHOD PAG. 25**

ART.	107	27	28	109	29	30	91	99
DENOM	75	80	100	110	125	140	160	200
B	400	400	400	400	400	400	400	400
H	330	330	330	330	330	330	330	330
D	75	80	100	110	125	140	151	191
D1	170	170	170	170	170	170	170	-
C	30	30	30	30	30	30	30	-
C1	25	25	25	25	25	25	25	-



LEFT-GRATE and/or GRAVEL GRATE

ART.	38	38 bis
B	180	180
H	80	80

RING

B	170
H	30

N.B.:

Art. 38 gap mm. 6.
Art. 38 gap mm. 14.

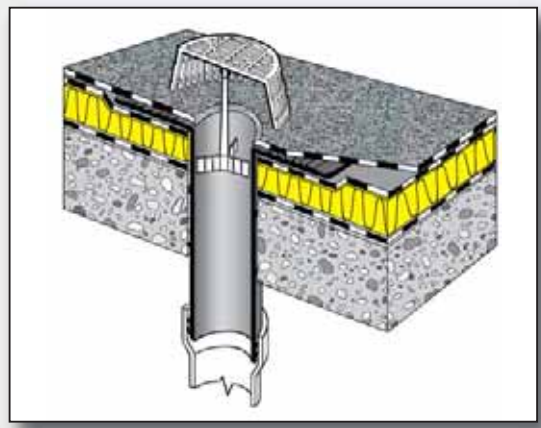
LEAF-GRATE AND/OR GRAVEL-GRATE



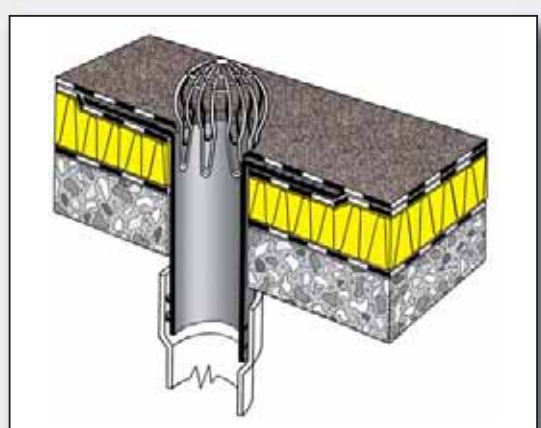
Art. 24
Leaf-grate and/or gravel-grate suitable for roof drains from mm. 60 Ø to mm. 160 Ø



Art. 24.1
Suitable for roof drains from mm. 60 Ø to mm. 200 Ø



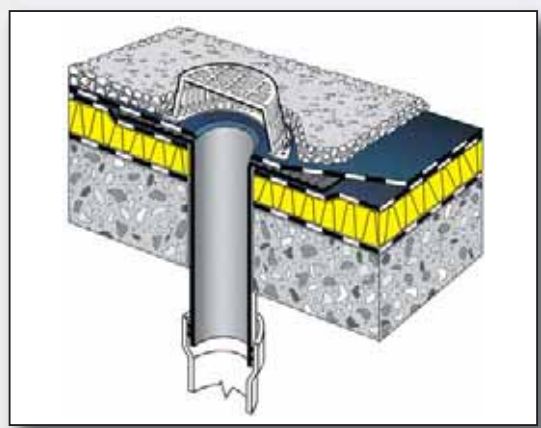
Art. 26
Suitable for roof drains from mm. 75 Ø to mm. 125 Ø



Art. 24



Art. 82

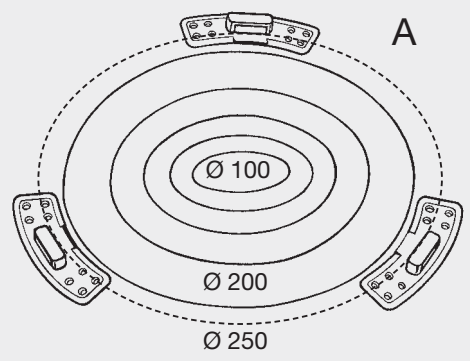


Buttonhole plates for gravel-grate



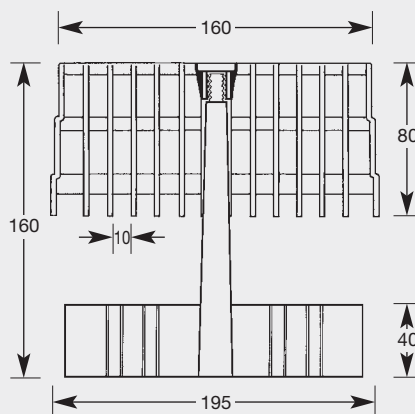
Art. 24.1

Art. 24.2
Suitable for roof drains from mm. 60 Ø to mm. 200 Ø

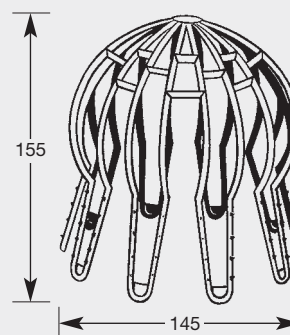


LEAF-GRATE AND/OR GRAVEL-GRATE

Art. 24 LEAF-GUARD OR GRAVEL-GRATE are suitable for use on drains having a diameter from 60 mm. to 160 mm. Its under surface is fitted with a threaded seat where the support is fitted. The support is threaded inside the unit and, if required, especially for smaller diameters, can be cut to size, which can be either the same diameter or at least 1 cm. more than its internal diameter.



Art. 26 LEAF-GRATE is suitable for use on drains having diameters from 75 to 125 mm. It is manufactured from an elastic, plastic material which is inserted into the drain pipe. It anchors itself in the pipe.

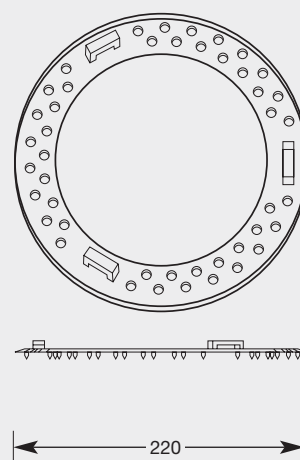


PERFORATED RING

The perforated ring has been specially designed to weld on the ITALPROFILI® leaf/gravel grate. It can be laid on every waterproof surface with bitumen, membranes or sticking material. It is made of IGOM EE synthetic rubber and is provided on the bottom with small punches. The surface has conical holes and three hooks to secure the gravel grate.

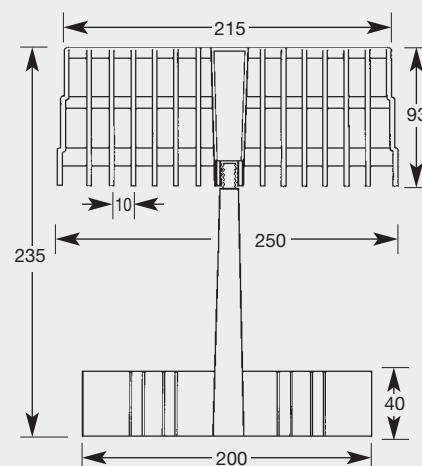
■ LAYING

- 1 - Heat by flame the surface around the outlet for a diameter of about 25 to 30 cm. until the material below gets sticky.
- 2 - Place the ring around the outlet and press to insert for two thirds of its thickness.
- 3 - With a trowel spread the sticky material poured over the ring, both inside and outside its circumference.
- 4 - Once it gets cool, insert the leaf-gravel grate.



Art. 24.2 LEAF-GRATE OR GRAVEL-GRATE are suitable for use on drains having a diameter from 60 mm. to 200 mm. Its under surface is fitted with a threaded conical seat (same as its height) where the support, art. 24.1, is fitted. The support is threaded into the conical seat under the unit and, if required, especially for smaller diameters, can be cut to size, which can be either the same diameter or at least 1 cm. more than its internal diameter.

Art. 24.2 can be fastened to the waterproofing material (bituminous membrane) using the 3 "buttonhole" plates supplied following the same method as used for the perforated ring. Alternatively the "buttonhole" plates can be welded at the correct size (Ø 250 mm.) using either a PVC or TPO membrane (see drawing A).



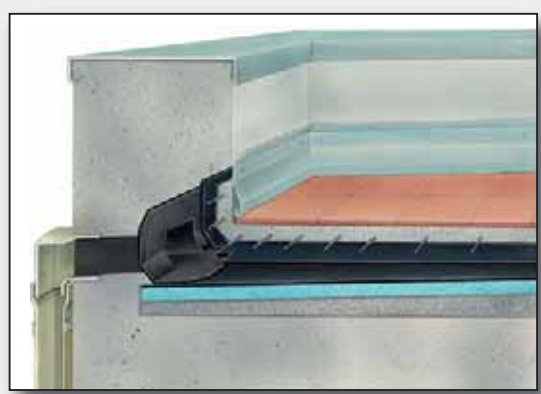
ANGLED ROOF DRAIN OUTLET IN IGOM EE



Art. 304 Art. 310
 Art. 305 Art. 311
 Art. 307 Art. 312



Art. 39



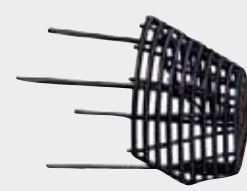
Art. 39.2



Art. 40
 Curve from 100 square Ø 80



Art. 41
 Curve from 100 square Ø 100



Art. 44
 Leaf-grate for angle roof drains



Art. 42
 Curve mm. 100x100



Art. 43
 Reducer mm. 100x100 Ø 100



Art. 118G
 Art. 118M
 Drain box



Art. 315
 Curve Ø 100

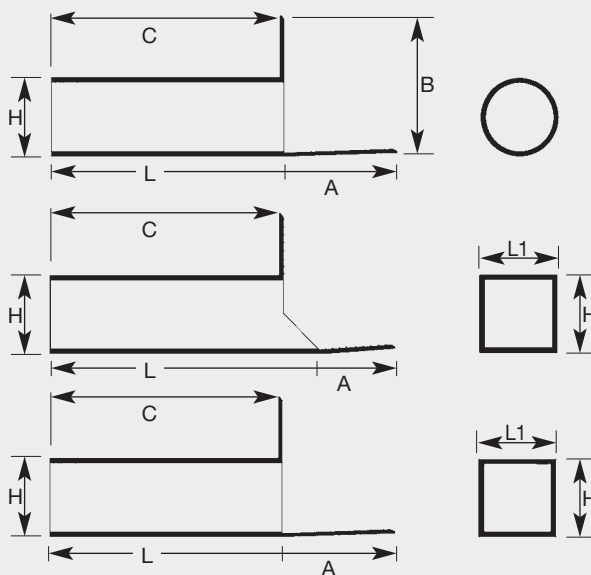


Art. 320
 Curve Ø 110

ANGLED ROOF DRAIN OUTLET IN IGOM EE

The **RIGHT ANGLED DRAIN OUTLET 90°** with round pipe (**Art. 304 - 305 - 307 - 310 - 311 - 312**) offers as one of its main characteristics that it can be used either as an external or internal drain and especially for horizontal drains through thick outer walls. The unit is used in conjunction with bends or fittings having seal rings and thus the joint can be within the wall and the down pipe can be placed at a minimum distance from the wall. It is particularly suitable for application with all kinds bituminous membranes APP SBS, spread bitumen.

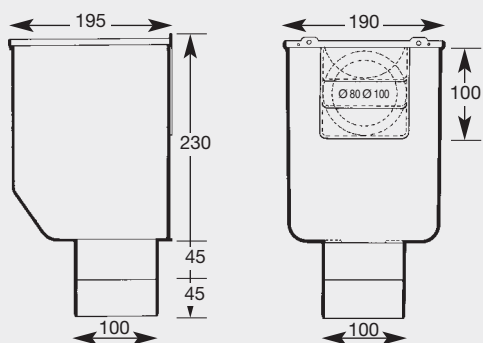
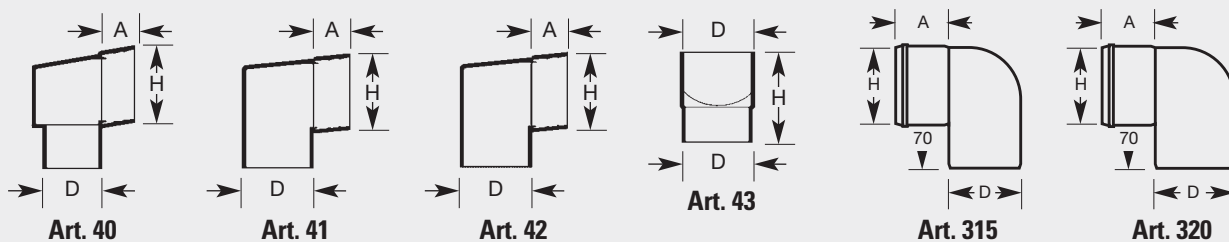
■ **INSTALLATION METHOD PAG. 28**



ART.	304	305	307	310	311	312	39	39.2
A	120	120	120	120	120	120	100	100
B	170	170	170	170	170	170	180	180
C	500	500	500	500	500	500	300	425
H	63	75	80	100	110	125	100	100
L1	-	-	-	-	-	-	100	100
L	500	500	500	500	500	500	345	500

ANGLED ROOF DRAIN SQUARE in IGOM EE **Art. 39 - 39.2**: the main characteristics of the angled roof drain is the possibility to be used for both inside and outside drains, for horizontal drains with free waterfall, terraces, industrial sheds, flat roofs, and roofs covered with bitumen, tarred felt or polymeric bitumen, APP SBS. Installation should be carried out at 3° slope.

■ **INSTALLATION METHOD PAG. 26**



ART.	40	41	42	43	315	320
A	50	50	50	50	65	65
D	Ø 80	Ø 100	100x100	Ø 100	Ø 100	Ø 110
H	100x100	100x100	100x100	100x100	Ø 110	Ø 110

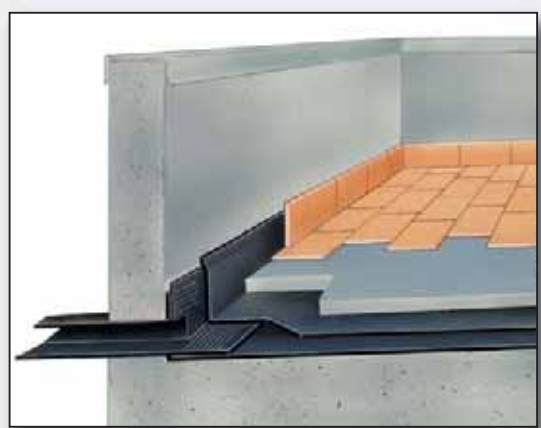
ANGLED ROOF DRAIN OUTLET IN IGOM EE



Art. 45



Art. 117



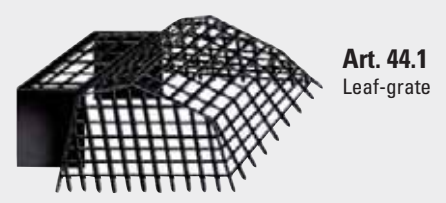
Art. 118.5



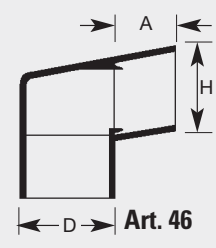
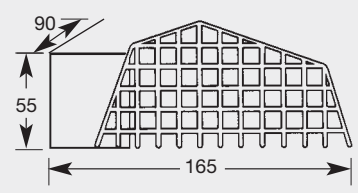
Art. 46
Curve Ø 80



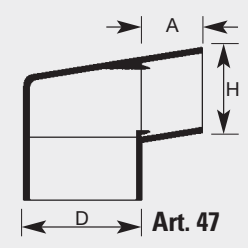
Art. 47
Curve Ø 100



Art. 44.1
Leaf-grate



Art. 46



Art. 47

ANGLED ROOF DRAIN OUTLET IN IGOM EE

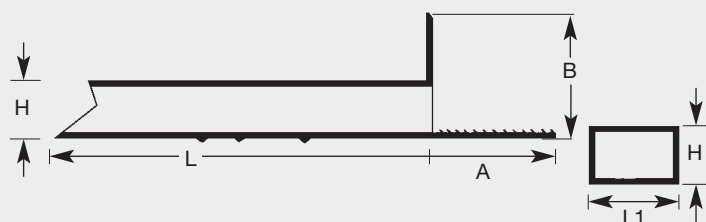
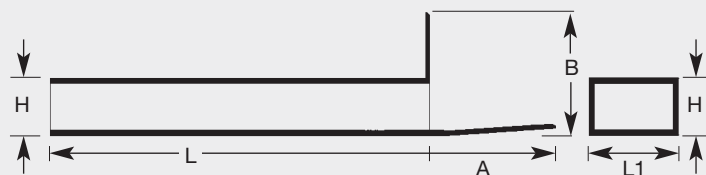
ANGLED ROOF DRAIN Art. 45: the main characteristics of the angled roof drain is the possibility to be used for both inside and outside drains, for horizontal drains with free waterfall, terraces, industrial buildings, flat roofs, and roofs with vertical walls 90° angled, covered with bitumen, tarred felt or polymeric bitumen, APP SBS.

Installation should be carried out at 3° slope.

■ **INSTALLATION METHOD PAG. 27**

ART.	45
A	120
B	140
H	65
L	500
L1	97

ART.	117
A	120
B	98
H	40
L	310
L1	50



ANGLE DRAIN UNIT in IGOM EE Art. 117 is suitable for free draining balconies or landings as its wide flange allows good anchorage to either APP or SBS modified membranes using liquid membrane.

Art. 118.5 front piece allows ample flow of water and gives a perfect finish and acts as a support for the skirting. The various elements supplied with the unit allow the selection of the correct thickness in various applications.

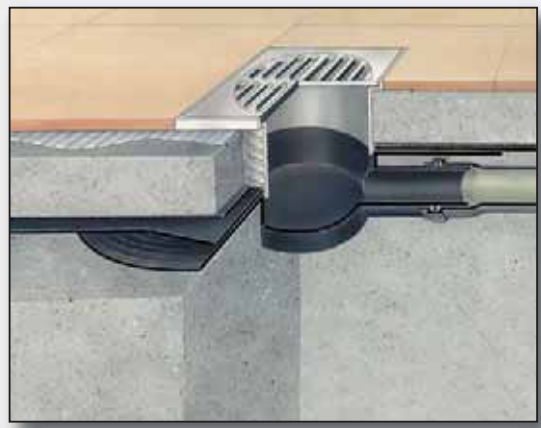
■ **INSTALLATION METHOD PAG. 27**

ART.	46	47
A	50	50
H	68x100	68x100
D	80	100

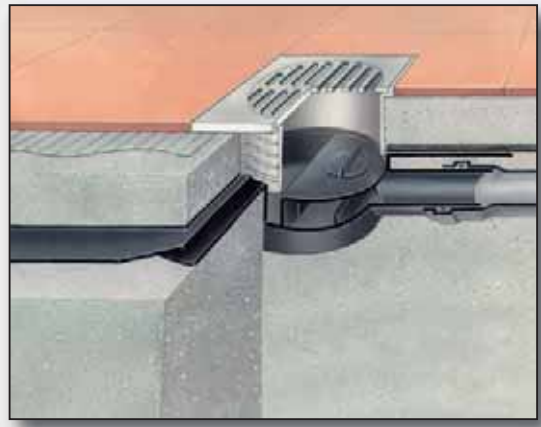
DRAIN UNIT WITH SIDE DISCHARGE IN IGOM EE



Art. 141 Ø 50 (DN50)
Art. 142 Ø 75 (DN70)



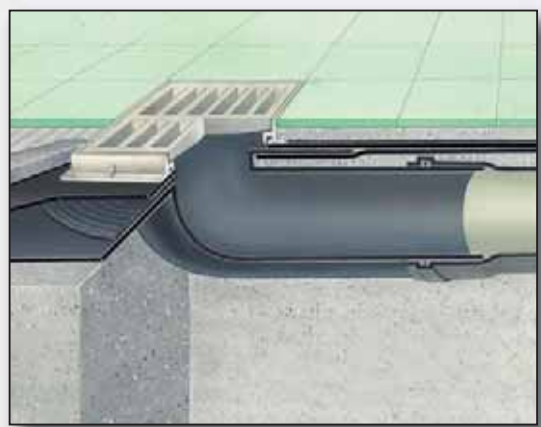
Art. 144 Ø 50 (DN50)
Art. 145 Ø 75 (DN70)



DRAIN UNIT WITH HORIZONTAL DISCHARGE



FLANGE
Art. 147.1 Ø 90 (DN90)
Art. 148.1 Ø 110 (DN100)



Art. 147 Ø 90 (DN90)
Art. 148 Ø 110 (DN100)

DRAIN UNIT WITH SIDE DISCHARGE IN IGOM EE

The **DRAIN AND SIPHON UNITS** shown here are excellent connections between the waterproofing materials and the down pipes themselves. They are made from IGOM EE thermoplastic rubber and are fitted with an embossed flange to enhance adhesion with a torch-on membrane. They are fitted with an adjustable bellows system for use with various thicknesses of paving materials and are available with ABS, PP or stainless steel grilles.

The siphon type drains are fitted with a plug for easy cleaning of deposits and can either be welded or sleeve fitted to normal PE pipes. They are suitable for use on flat roofs, patios, bathrooms, garages, laundry rooms etc.

N.B. Siphon type drain units should not be used in areas where freezing is likely to occur.

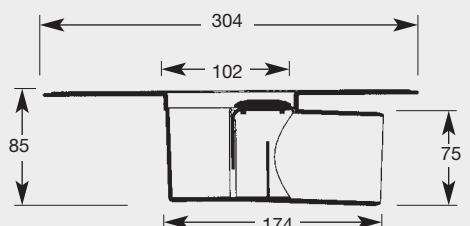
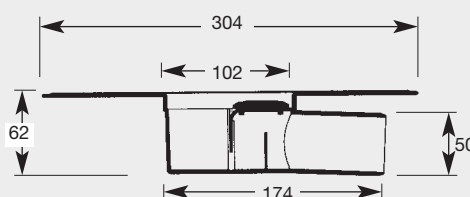
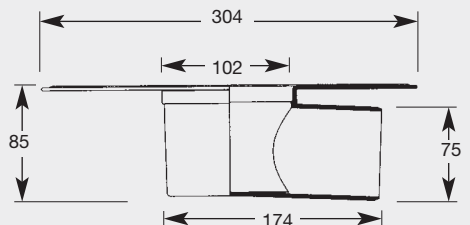
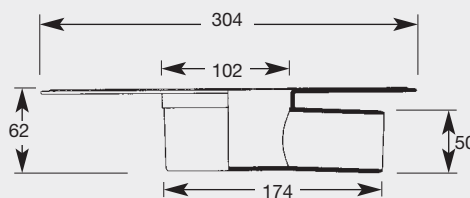
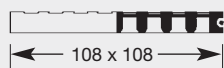
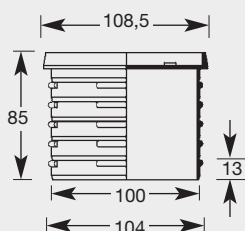
■ **INSTALLATION METHOD PAG. 30**



Art. 143

Art. 149

Art. 146



DRAIN UNIT WITH HORIZONTAL DISCHARGE

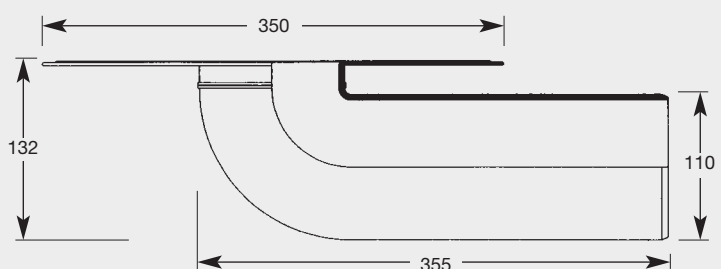
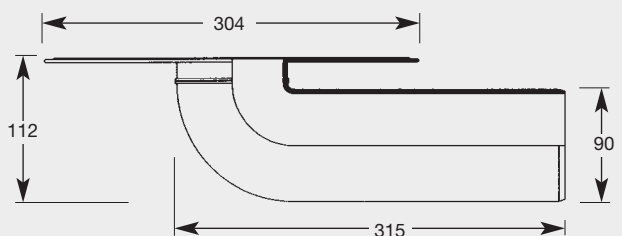
DRAIN WITH HORIZONTAL DISCHARGE Art. 147-148 suitable for use with PEHD discharge pipes having diameters of 90 mm. or 110 mm. weldable to a standard pipe fitting or PP curve with a seal ring. The flanges are made from ribbed IGOM EE (thermoplastic rubber) to enhance adherence of the membrane.

FLANGE Art. 147.1-148.1. These flanges can be welded to PEHD bends or pipes to connect waterproofing materials, thus obtaining a solution giving continuity between horizontal and vertical drain pipes.

■ **INSTALLATION METHOD PAG. 31**



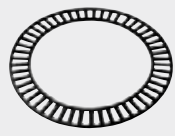
Art. 5250



AIR VENTS FOR FLAT ROOFS IN IGOM EE



Art. 48
Art. 49



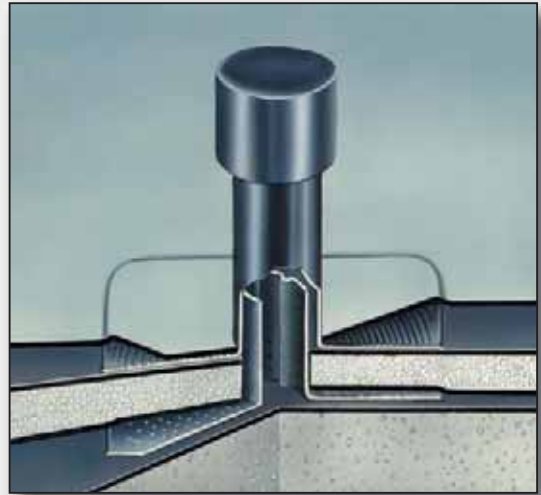
Art. 48.3



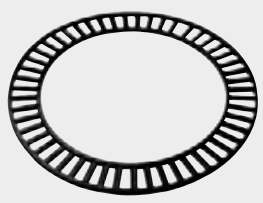
Art. 48.8



Art. 51
Tube connector



Art. 49.1



Art. 49.7



Art. 49.8



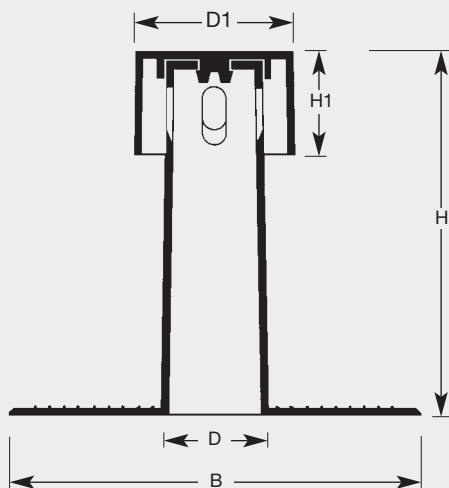
AIR VENTS FOR FLAT ROOFS IN IGOM EE

Art. 48 - 49 - 49.1 - 49.9 are suitable for application with waterproofing membranes such as APP, SBS and roofs covered with hot bitumen or tarred felt. Air Vents designed and patented by ITALPROFILI® is one of the most effective ventilation system as it discharges steam build-up under the waterproofing. It does not reduce the water repellent capacity of either the prefabricated membranes or the bitumen covering or the insulation capacity of the waterproofing.

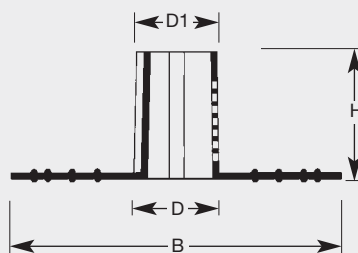
It avoids serious inconveniences such as curling, topping-up, damp insulating sheeting, with consequent partial or total loss of its properties. Due to a very careful construction and the used materials, ITALPROFILI® air vent has all specific features to prevent such drawbacks.

■ **INSTALLATION METHOD PAG. 32**

ART.	48	49
B	280x280	320x320
D	75	75
H	200	270
H1	80	80
D1	110	110



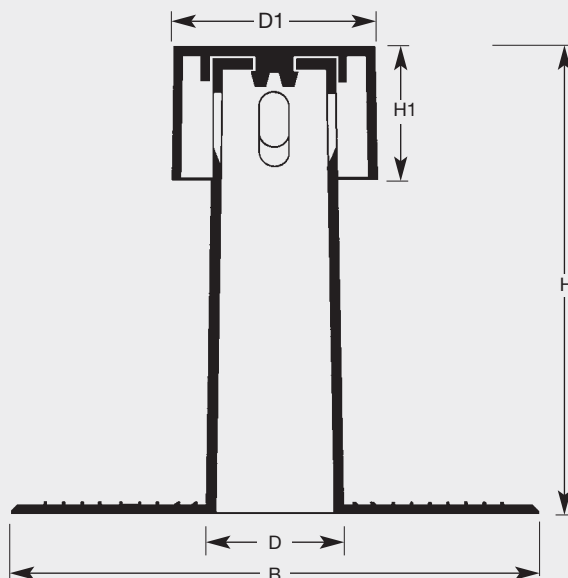
ART.	51
B	365x365
D1	67
H	100
D	60



AIR VENT Art. 49.1 - 49.9 are suitable for use on various ventilation, considered the dimensions, can be applied on pipes coming from beneath Ø 100-110. Art. 49.1 and 49.9 are suitable for application with waterproofing membranes such as APP, SBS.

■ **INSTALLATION METHOD PAG. 32**

ART.	49.1	49.9
B	357x357	357x357
D	110	110
H	325	500
H1	95	95
D1	145	145



POLYETHYLENE VAPOR-PROOF AERATOR - PIPE FITTINGS



Art. 55
Art. 57
Brown

Art. 58



Art. 113



Art. 138



Art. 114



Art. 60



Art. 83

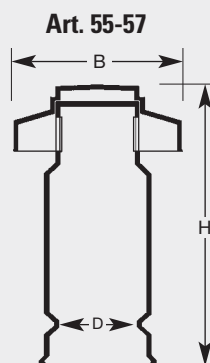


CAP FOR ROOF TILES - BIRD EXCLUDER

The **VAPOUR-PROOF AERATOR** is suited to ventilate bathrooms, kitchens, workrooms and all the rooms where steam comes from. It is so called as the vent is built in order to avoid steam build-up and its consequent dripping down along the leak pipes, when these are stressed by released steam. Available in colours: grey and brown.

■ **INSTALLATION METHOD PAG. 33**

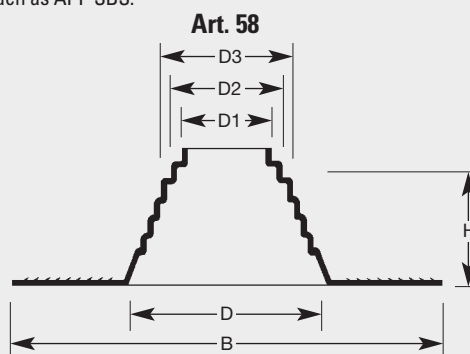
ART.	55	57
D	100	125
D1	120	150
B	180	220
H	300	350



FLEXIBLE COLLAR Art. 58 is suitable for connecting downpipes to the waterproofing system such as APP SBS.

■ **INSTALLATION METHOD PAG. 33**

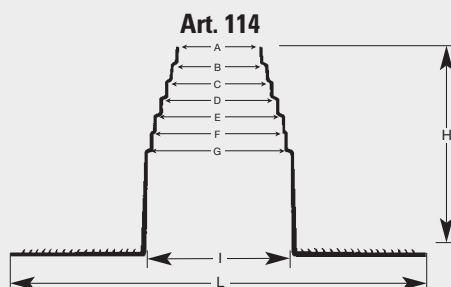
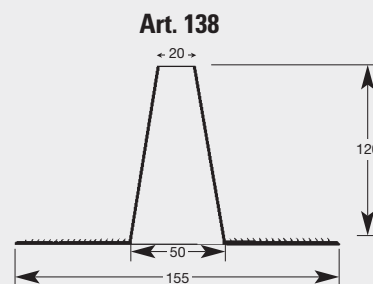
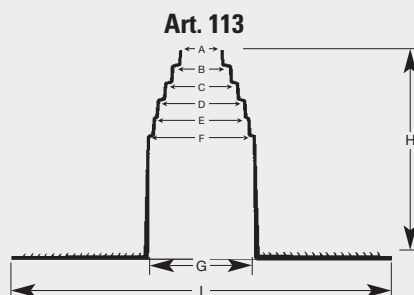
ART.	58
B	410x410
D	190
D1	80
D2	100
D3	125



PIPE FITTINGS Art. 113 - 114 - 138 are suitable for connecting downpipes to the waterproofing system such as APP SBS.

■ **INSTALLATION METHOD PAG. 34**

ART.	113	114
A	34	75
B	50	80
C	60	90
D	75	100
E	80	110
F	90	115
G	93	125
I	340	127
L		365
H	180	180



CAP FOR ROOF TILES Art. 60 is suitable for connecting downpipes to the tiles.

CONE GUARD Art. 83 for connection of tubes with aerial tv up to 1" with ϕ 100 mm. base (suitable for using together art. 60).

BIRD EXCLUDER Art. 2002 - 2003 - 2004 is suitable for use with all discontinuous roofing systems such as cement or clay tiles, and fibre cement sheets. It stops birds and rodents from going into the roof and nesting and is suitable for use to aerate the waterproofing mantle.



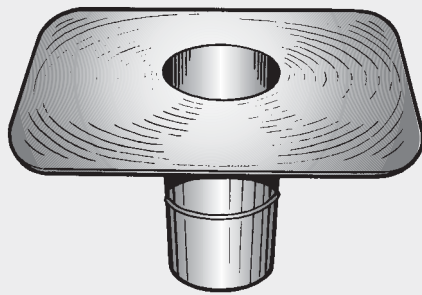
Art. 2002 - Length mm. 1000 h. mm. 110
Art. 2004 - Length mm. 1000 h. mm. 150



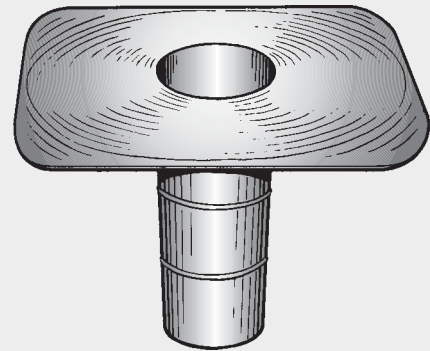
Art. 2003 - Length mm. 1000 h. mm. 80

UNIVERSAL ANTI-BACKUP ROOF DRAIN IN IGOM CE

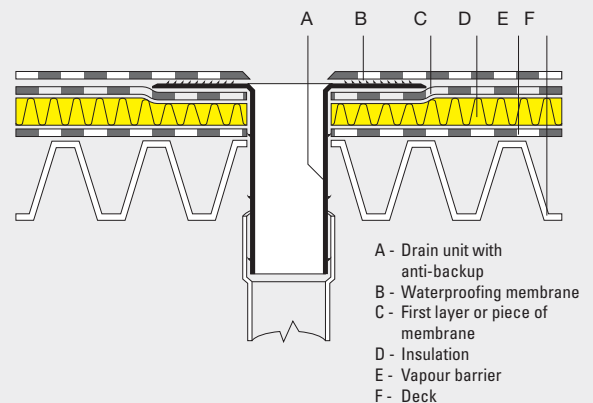
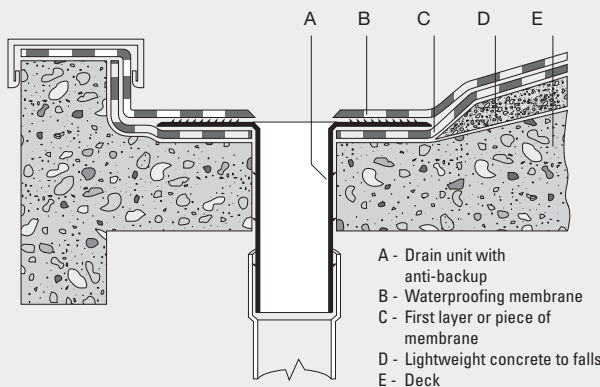
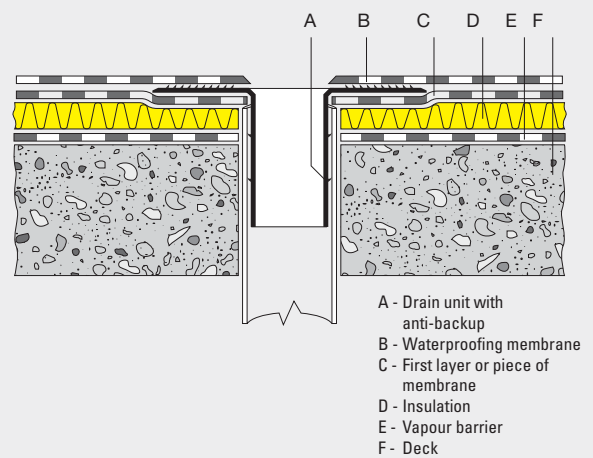
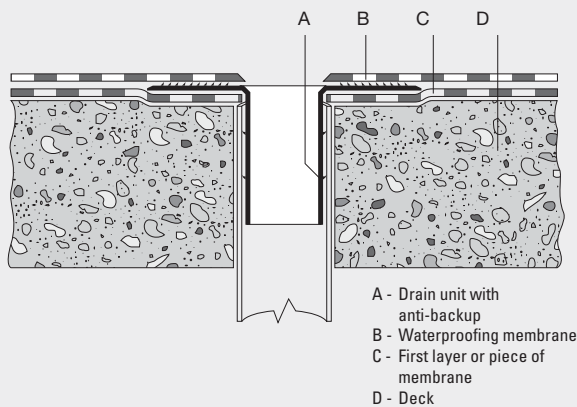
laying technology



H mm. 180



H mm. 250



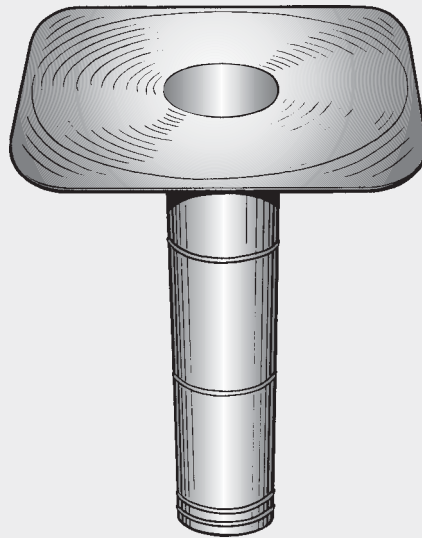
INSTALLATION METHOD

- 1 - Apply primer to an area of approx 500 x 500 mm around the drain pipe.
- 2 - Torch apply first layer of waterproofing membrane and cut out the area over the drain pipe.
- 3 - Heat the surface of the membrane until molten, then place the drain unit into position thus sealing the underside of the drain unit to the waterproofing layer.
- 4 - Heat a small piece of membrane so that the compound can be spread with a trowel to cover the ribbed surface of the flange area.
- 5 - Install the second layer of waterproofing heating both surfaces, the bitumen covered flange area and the second waterproofing layer.
- 6 - Cut the membrane no less than 10 mm from the edge of the drain unit and dress into the drain unit.
- 7 - Install the leaf guard.

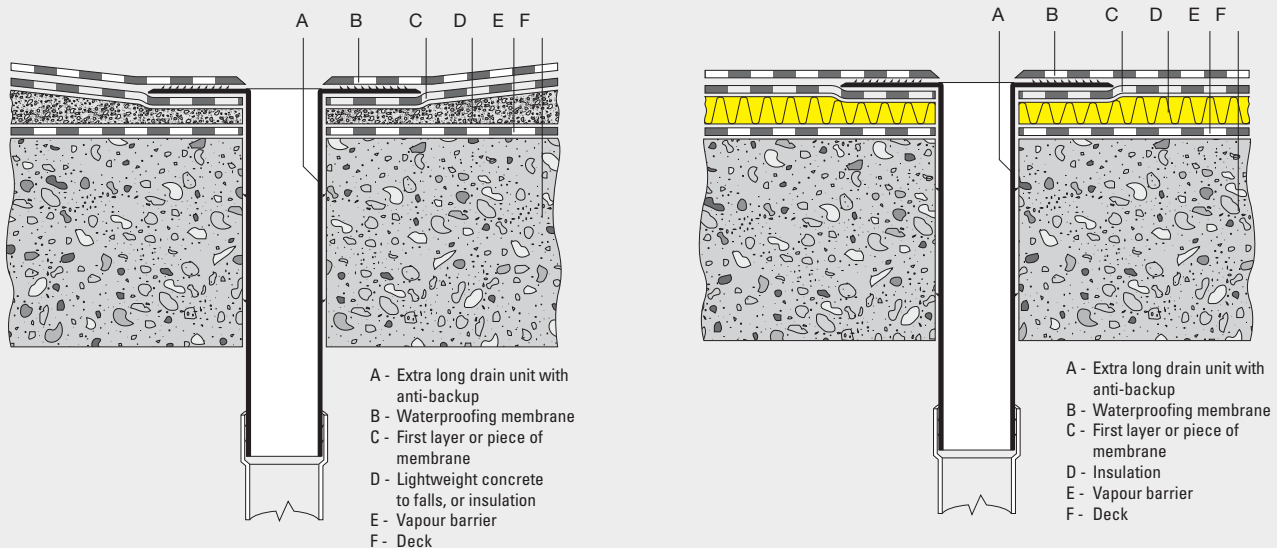
N.B.: If only a single layer of waterproofing is being used, at point 2 use a 500 x 500 mm piece of the waterproofing membrane. Ensure that all areas are well pressed and sealed.

DESCRIPTION OF SPECIFICATIONS

Supply and install ITALPROFIL® Universal drain unit made from flexible synthetic rubber IGOM CE having a ribbed flange which must extend at least 12 cm beyond the circumference of the drain pipe and a 180 or 250 mm long anti-backup tail piece suitable for pipe Ø..... complete with leaf guard or gravel grate.



H mm. 485



INSTALLATION METHOD

- 1 - Apply primer to an area of approx 500 x 500 mm around the drain pipe.
- 2 - Torch apply first layer of waterproofing membrane and cut out the area over the drain pipe.
- 3 - Heat the surface of the membrane until molten, then place the drain unit into position thus sealing the underside of the drain unit to the waterproofing layer.
- 4 - Heat a small piece of membrane so that the compound can be spread with a trowel to cover the ribbed surface of the flange area.
- 5 - Install the second layer of waterproofing heating both surfaces, the bitumen covered flange area and the second waterproofing layer.
- 6 - Cut the membrane no less than 10 mm from the edge of the drain unit and dress into the drain unit.
- 7 - Install the leaf guard.

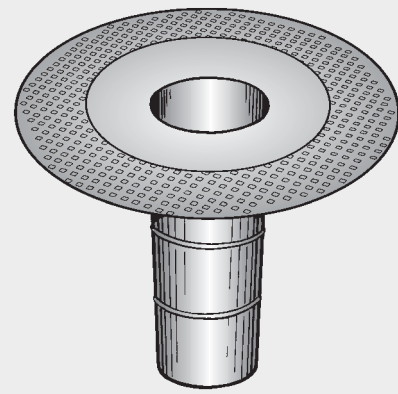
N.B.: If only a single layer of waterproofing is being used, at point 2 use a 500 x 500 mm piece of the waterproofing membrane. Ensure that all areas are well pressed and sealed.

DESCRIPTION OF SPECIFICATIONS

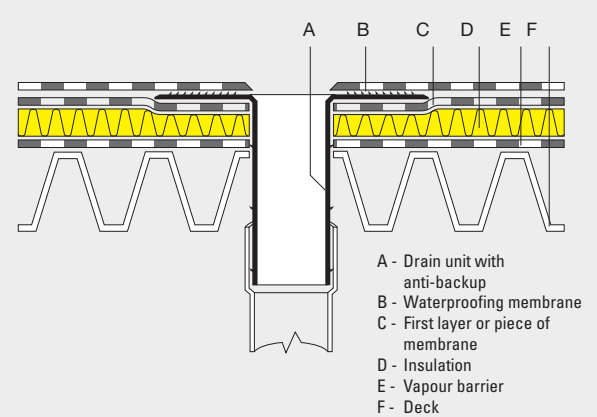
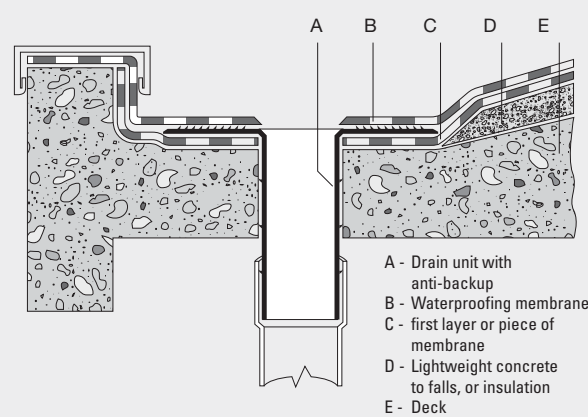
Supply and install ITALPROFILI® Extra Long drain unit made from flexible synthetic rubber IGOM CE having a ribbed flange which must extend at least 12 cm beyond the circumference of the drain pipe, a 485 mm long anti-backup tail piece suitable for pipe Ø..... complete with leaf guard or gravel grate.

ANTIBACKUP ROOF DRAIN R WITH MESHED FLANGE

laying technology



H mm. 250



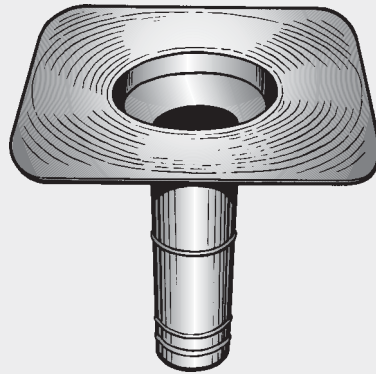
INSTALLATION METHOD

- 1 - Torch apply first layer of waterproofing membrane and cut out the area over the drain pipe.
- 2 - Heat the surface of the membrane until molten, then place the drain unit into position thus sealing the underside of the drain unit to the waterproofing layer.
- 3 - Spread the compound which exudes through the holes in the flange so as to fill the holes.
- 4 - Install the second layer of waterproofing heating the membrane itself.
- 5 - Cut the membrane no less than 10 mm from the edge of the drain unit and dress into the drain unit.
- 6 - Install the leaf guard.

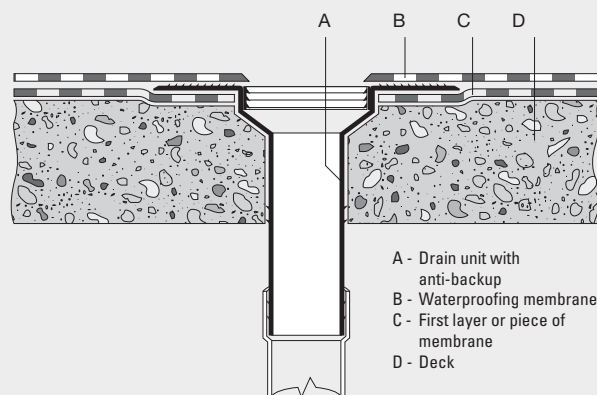
N.B.: If only a single layer of waterproofing is being used, at point 1 use a 500 x 500 mm piece of the waterproofing membrane. Ensure that all areas are well pressed and sealed.

DESCRIPTION OF SPECIFICATIONS

Supply and install ITALPROFIL® Universal "R" drain unit made from flexible synthetic rubber IGOM CE having a mesh flange which must extend at least 12 cm beyond the circumference of the drain pipe, a 250 mm long anti-backup tail piece suitable for pipe Ø..... complete with leaf guard or gravel grate.



H mm. 330



A - Drain unit with anti-backup
 B - Waterproofing membrane
 C - First layer or piece of membrane
 D - Deck

INSTALLATION METHOD

For multi-layer (Built Up Roof) systems:

- 1 - Apply a layer of bitumen to the area where the drain is to be installed.
- 2 - Lay a sheet of felt.
- 3 - Apply a second layer of bitumen.
- 4 - Put the drain in position while the bitumen is still very hot.
- 5 - Install the fastening ring for the leaf guard or the gravel grate.
- 6 - Install the other layers over the flange of the drain unit.
- 7 - Once the appropriate number of layers have been installed, cut out at approximately 20 mm from the funnel edges.
- 8 - Warm the edge of the hole and using a trowel dress down into the funnel area.
- 9 - Position the leaf guard or gravel grate.

For application using modified bitumen membrane, proceed as follows:

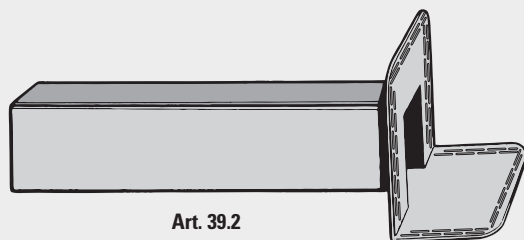
- 1 - Apply a layer of primer to the area where the unit is to be installed.
- 2 - Torch apply first layer of waterproofing membrane.
- 3 - Heat the surface of the membrane where the flange will be installed until molten.
- 4 - Place the flange of the drain unit into the molten bitumen.
- 5 - Install the fastening ring for the leaf guard or the gravel grate.
- 6 - Heat a piece of modified bitumen membrane and spread the liquid compound with a trowel to fill the ribbed area of the flange.
- 7 - Torch apply modified bitumen membrane layers as required.
- 8 - Cut the membrane no less than 10 mm from the edge of the drain unit.
- 9 - Dress into the drain unit.
- 10 - Install the leaf guard or gravel grate Art. 38 - 38 bis.

DESCRIPTION OF SPECIFICATIONS

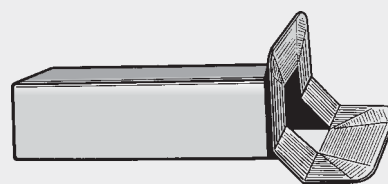
Supply and install ITALPROFIL® New drain unit made from flexible synthetic rubber IGOM CE having a ribbed flange 400 x 400 mm flat funnel 30 mm high and Ø 170 mm, a 250 mm long anti-backup tail piece suitable for pipe Ø..... complete with leaf guard or gravel grate having a 6 mm or a 14 mm mesh.

ANGLED ROOF DRAIN OUTLET IN IGOM EE

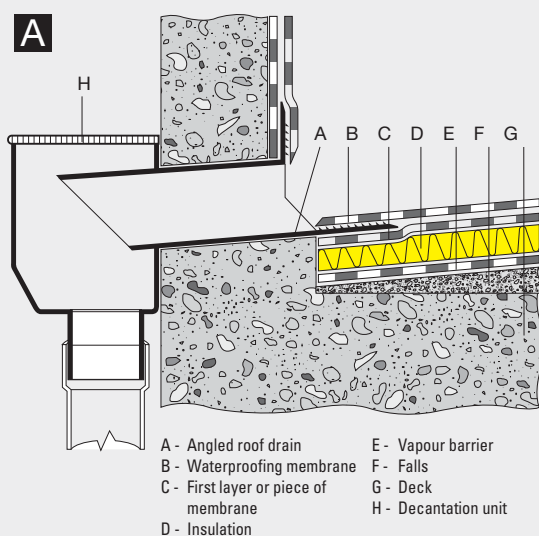
laying technology



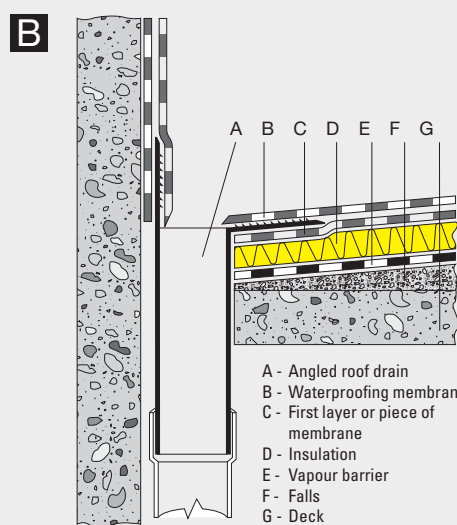
Art. 39.2



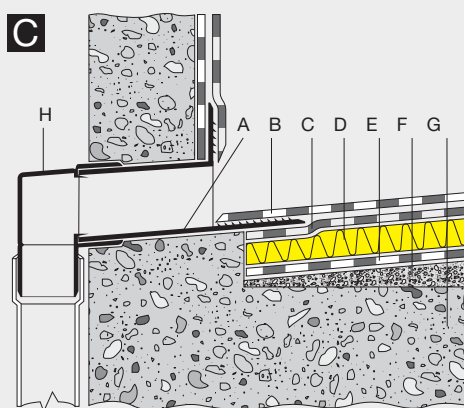
Art. 39



A - Angled roof drain
B - Waterproofing membrane
C - First layer or piece of membrane
D - Insulation
E - Vapour barrier
F - Falls
G - Deck
H - Decantation unit



A - Angled roof drain
B - Waterproofing membrane
C - First layer or piece of membrane
D - Insulation
E - Vapour barrier
F - Falls
G - Deck



A - Angled roof drain
B - Waterproofing membrane
C - First layer or piece of membrane
D - Insulation
E - Vapour barrier
F - Falls
G - Deck
H - Elbow

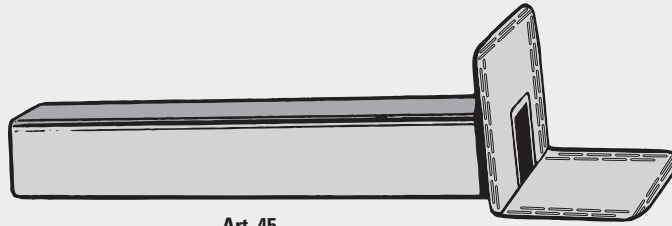
INSTALLATION METHOD

Art. 39 - 39.2

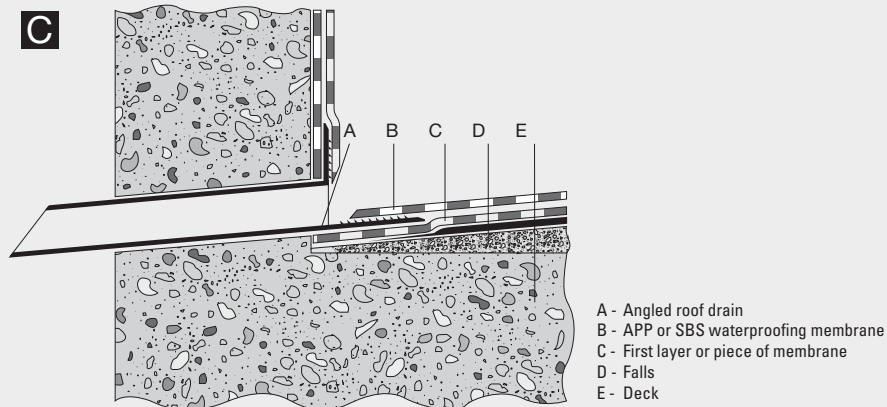
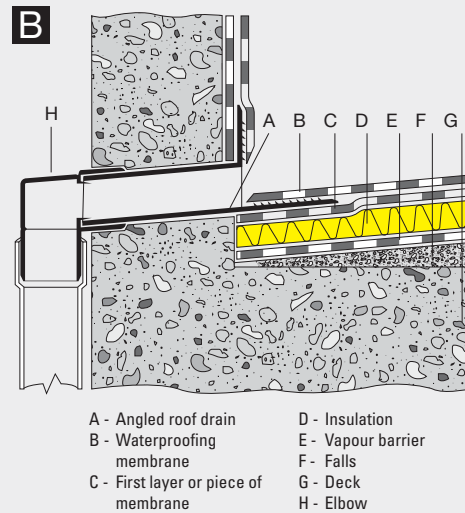
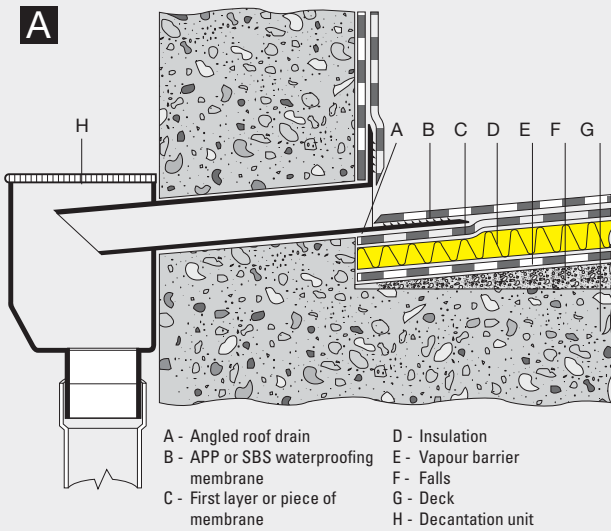
- 1 - Apply a coat of primer to the deck for approximately 40 to 50 cm around the hole where the drain unit is to be installed.
- 2 - Torch apply a 50x50 cm piece of thin membrane. If the waterproofing is a multi-layer system the drain unit is installed after the first layer and there is no need for the 50x50 cm piece of membrane. Ensure a pitch of 3°.
- 3 - Try the drain in the hole marking the point where it has to be cut with regards to the thickness of the wall. The stem must be cut so that the top edge extends 5 mm less than the bottom edge when being used with elbows Art. 40-41-42. If it is fitted into box culvert Art. 118 it should be cut at 45° (see drawing A).
- 4 - Heat the piece of membrane (point 2), or the first layer of waterproofing and adhere the flange.
- 5 - Heat a piece of modified bitumen membrane and spread the liquid compound with a trowel over the drain flange.
- 6 - Install the cap sheet of the waterproofing system taking care especially around the flange area that it is properly heated and adheres correctly over the whole of the surface area.
- 7 - Before installing the elbow place some bituminous type mastic. After inserting the elbow into the drain unit, make sure that the four tabs inside the elbow are aligned.
- 8 - Insert leaf guard or gravel grate Art. 26 and / or 44.

DESCRIPTION OF SPECIFICATIONS

Supply and install ITALPROFILI® 90° or 45° drain unit made from flexible synthetic rubber IGOM CE having the following dimensions: tail piece 300 or 500 mm long 100x100 mm, a flexible flange fitted with an elbow for fitting to the drain unit Ø 80 or Ø 100 mm or 100x100 mm and/or a catchment box for the drain complete with leaf guard or gravel grate.



Art. 45



INSTALLATION METHOD (same application for Art. 117)

Art. 45

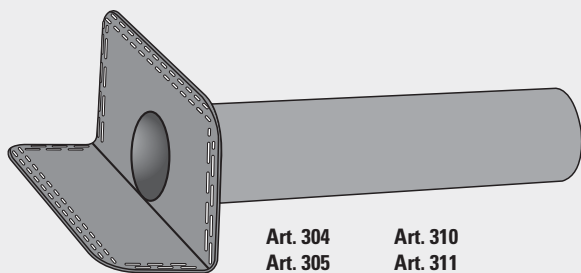
- 1 - Apply a coat of primer to the deck around the hole where the unit is to be installed.
- 2 - Torch apply a 50x50 cm piece of thin membrane. If the waterproofing is a multi-layer system the drain unit is installed after the first layer and there is no need for the 50x50 cm piece of membrane. Ensure a pitch of 3°.
- 3 - Try the drain in the hole marking the point where it has to be cut with regards to the thickness of the wall. The stem must be cut so that the top edge extends 5 mm less than the bottom edge, when being used with elbows Art. 46 and 47. If it is fitted into box culvert Art. 118 it should be cut at 45° (see drawing A).
- 4 - Heat the piece of membrane (point 2), or the first layer of waterproofing and adhere the flange.
- 5 - Heat a piece of modified bitumen membrane and spread the liquid compound with a trowel over the ribbed flange
- 6 - Install the cap sheet of the waterproofing system taking care especially around the flange area that it is properly heated and adheres correctly over the whole of the surface area.
- 7 - Before installing the elbow apply some bituminous type mastic, "Boston" or similar. After inserting the elbow into the drain unit, make sure that the four tabs inside the elbow are aligned. The elbow can be installed in the drain pipe (item 3), drawing B.
- 8 - Insert leaf guard or gravel grate Art. 44.1.

DESCRIPTION OF SPECIFICATIONS

Supply and install ITALPROFILI® 90° discharge drain unit made from flexible synthetic rubber IGOM CE having the following dimensions: tail piece 500 mm long 65 mm high, and 100 mm wide, a flexible flange fitted with an elbow for fitting to the drain unit Ø 80 or Ø 100 mm and to a catchment box for the drain complete with leaf guard or gravel grate.

90° ANGLED ROOF DRAIN ROUNDED PIPE IN IGOM EE

laying technology

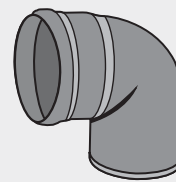


Art. 304
Art. 305
Art. 307

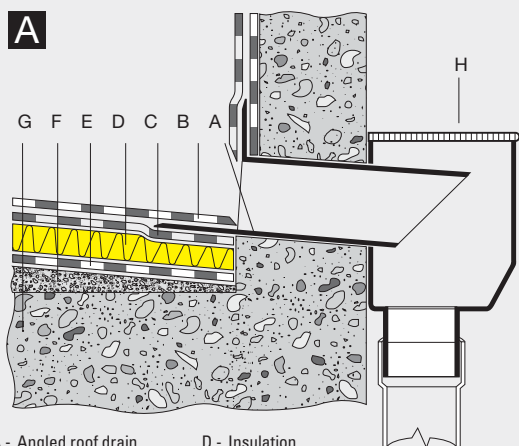
Art. 310
Art. 311
Art. 312



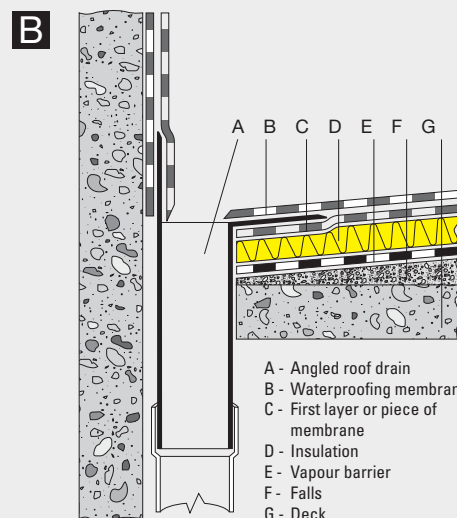
Art. 320



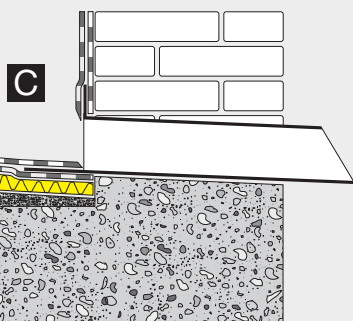
Art. 315



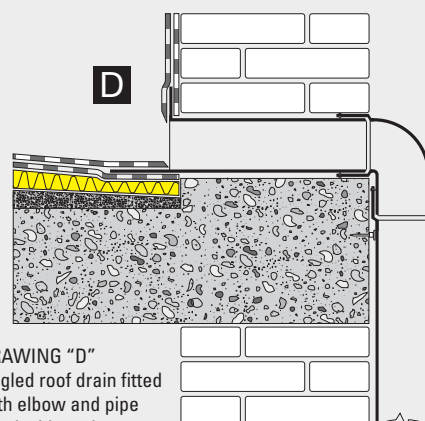
A - Angled roof drain
B - Waterproofing membrane
C - First layer or piece of membrane
D - Insulation
E - Vapour barrier
F - Falls
G - Deck
H - Decantation unit



A - Angled roof drain
B - Waterproofing membrane
C - First layer or piece of membrane
D - Insulation
E - Vapour barrier
F - Falls
G - Deck



DRAWING "C"
Free draining



DRAWING "D"
Angled roof drain fitted with elbow and pipe fitted with seal



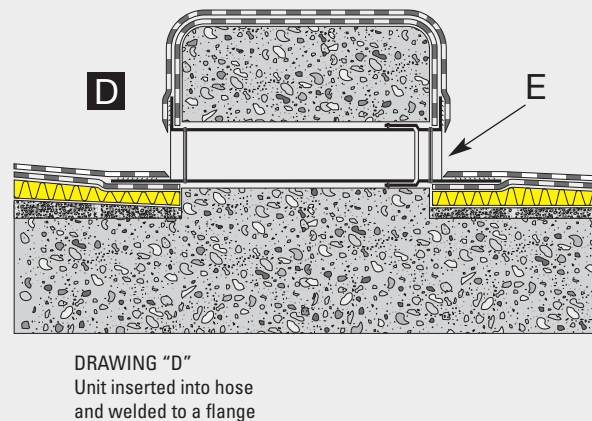
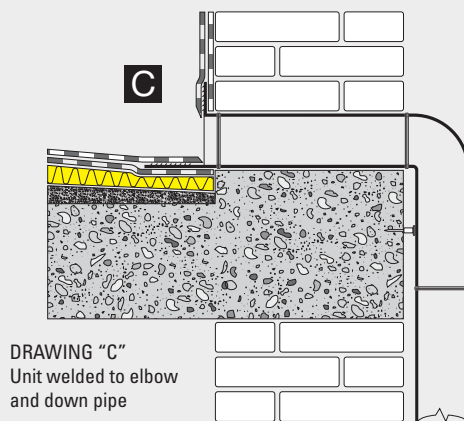
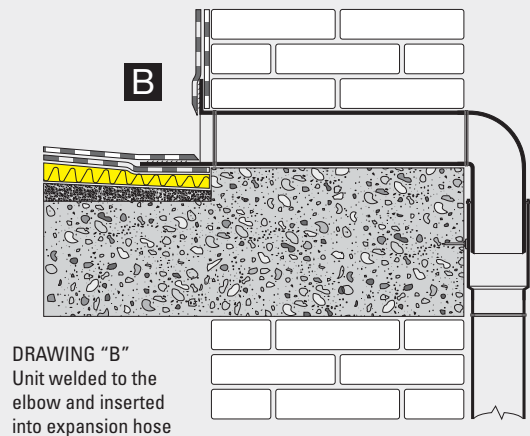
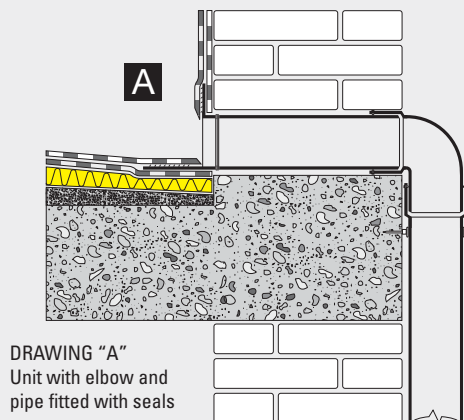
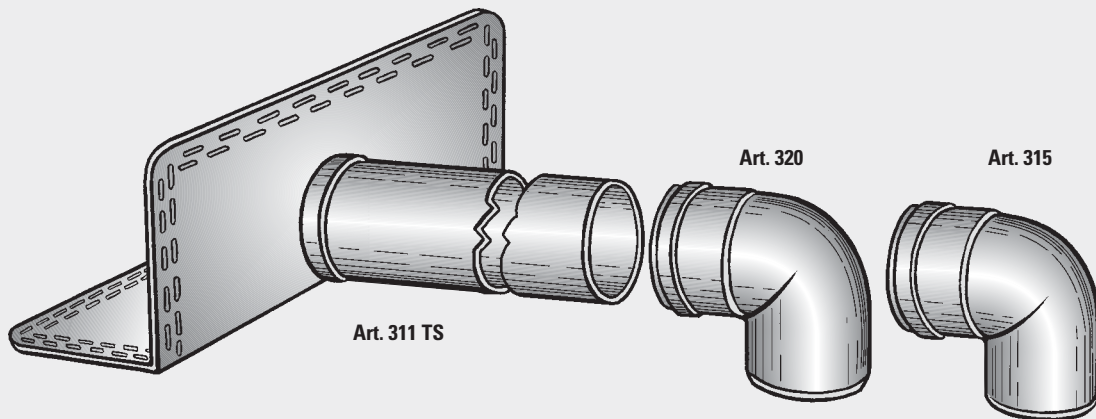
INSTALLATION METHOD

Art. 304 - 305 - 307 - 310 - 311 - 312

- 1 - Apply a coat of primer to the deck for approximately 40 to 50 cm around the hole where the drain unit is to be installed.
- 2 - Torch apply a 50x50 cm piece of thin membrane. If the waterproofing is a multi-layer system the drain unit is installed after the first layer and there is no need for the 50x50 cm piece of membrane. Ensure a pitch of 3°.
- 3 - Try the drain in the hole marking the point where it has to be cut with regards to the thickness of the wall. The stem must be cut so that the top edge extends 5 mm less than the bottom edge. When being used with elbows Art. 320 - 315, whereas, if it is fitted into box culvert Art. 118 it should be cut at 45° (see drawing A).
- 4 - Heat the piece of membrane (point 2), or the first layer of waterproofing and adhere the flange.
- 5 - Heat a piece of modified bitumen membrane and spread the liquid compound with a trowel over the ribbed flange.
- 6 - Install the cap sheet of the waterproofing system taking care especially around the flange area that it is properly heated and adheres correctly over the whole of the surface area.
- 7 - Before installing the elbow place some bituminous type mastic. Where diameters permit, use an elbow fitted with a seal.
- 8 - Insert leaf guard or gravel grate Art. 26.

DESCRIPTION OF SPECIFICATIONS

Supply and install ITALPROFILI® round 90° angle drain unit made from flexible synthetic rubber IGOM CE having the following dimensions: tail piece 500 mm long, Ø, a flexible flange fitted with an elbow for fitting to the drain unit Ø 80 or Ø 100 mm with elbows for correct fitting to catchment box with leaf guard or gravel grate.



INSTALLATION METHOD

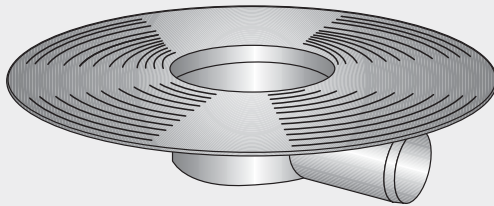
Art. 311 TS

- 1 - Apply a coat of primer to the deck for approximately 40 to 50 cm around the hole where the drain unit is to be installed.
- 2 - Torch apply the first layer of the waterproofing system.
- 3 - Try the drain in the hole marking the point where it has to be cut with regards to the thickness of the wall.
- 4 - Heat the first layer of waterproofing and adhere the flange.
- 5 - Heat a piece of modified bitumen membrane and spread the liquid compound with a trowel over the whole flange area.
- 6 - Install the second layer of the waterproofing system taking care especially around the flange area that it is properly heated and adheres correctly over the whole of the surface area.
- 7 - Place the elbow and seal into position, ensuring that the cut edges have been bevelled and lubricated, as shown in Solution A.
- 8 - Weld elbow as per Solutions B or C
- 9 - Insert pipe with seals welded in position on the flange as per Solution D.

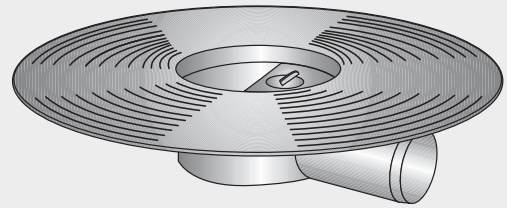
DESCRIPTION OF SPECIFICATIONS

Supply and install ITALPROFILI® round 90° angle drain unit with weldable HDPE pipes that fit Ø 100 mm elbows with watertight with seals for connection to a Ø 110 mm discharge pipe or Ø 100 expansion hose for connecting to vertical or horizontal watertight seals Ø 110 mm.

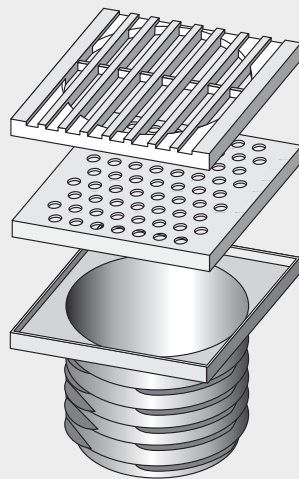
N.B.: On request we can also supply welded seal pipes, see item E.



Art. 141 - 142



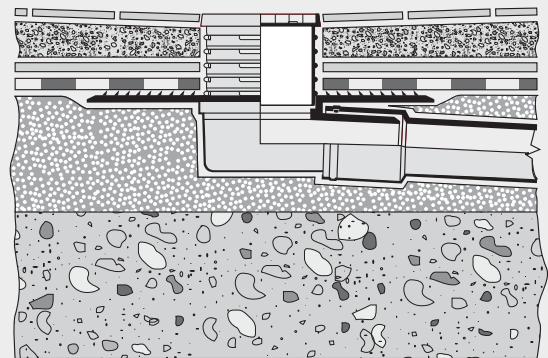
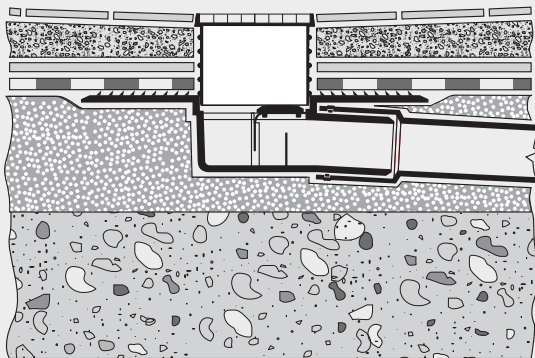
Art. 144 - 145



Art. 143

Art. 149

Art. 146



INSTALLATION METHOD

Art. 141 - 142 - 144 - 145 (143 - 146)

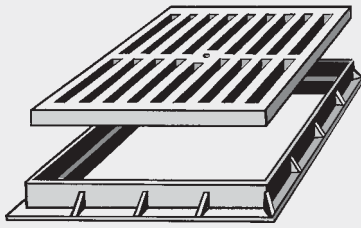
- 1 - Prepare a suitable hole where the drain unit is to be installed.
- 2 - Place the drain in position and connect it to the discharge pipe.
- 3 - Install the waterproofing membrane.
- 4 - Use a trowel to spread the liquid APP or SBS from the membrane until the ridges of the flange are completely covered.
- 5 - Position pipe Art. 146 and grille Art. 143 and proceed with finishing around the drain.

N.B.: Avoid installing drains in areas likely to freeze.

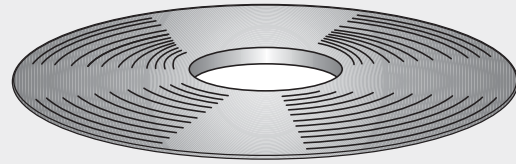
DESCRIPTION OF SPECIFICATIONS

Art. 141 - 142 - 144 - 145 (143 - 146)

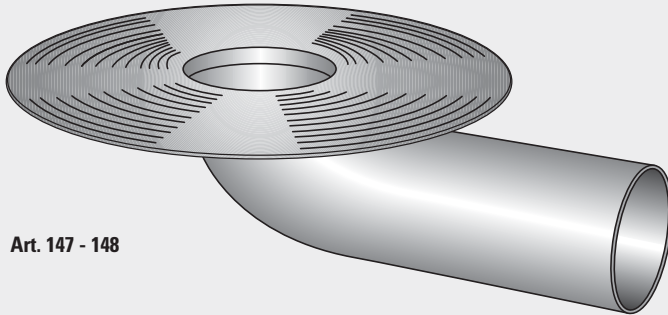
Supply and install ITALPROFILI® drain unit(s) with side discharge and/or with siphon to be inserted into pipe having a diameter of 50 or 75 mm. with seal ring.



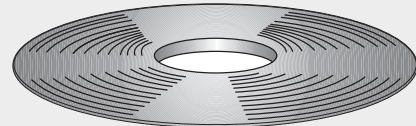
Art. 5250



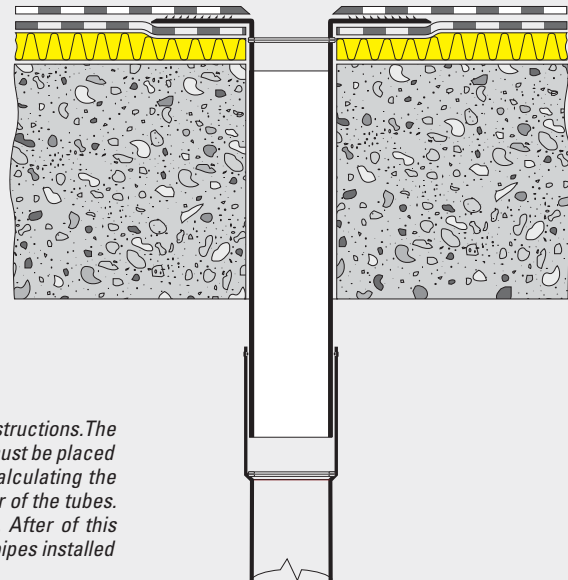
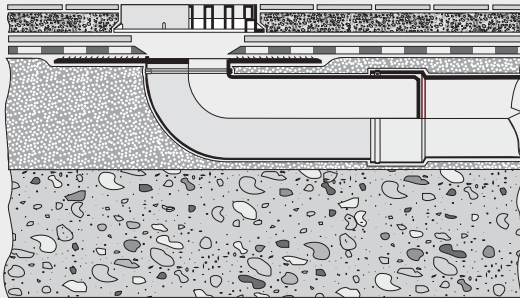
Art. 147.1 (DN 90)



Art. 147 - 148



Art. 148.1 (DN 110)



N.B. Hot plate welding of Art. 147 - 148

Articles 147-148 are suitable for welding with HDPE pipes with the following instructions. The lengths of pipe must not exceed 200-250 mm. These measures over the object must be placed on linear within these dilators leaving the necessary space expansion by calculating the lengths of the tubes inserted with the expansion provided by the manufacturer of the tubes. After have been created as a fixed point requires the manufacturer pipes. After of this operation should be created as a fixed point requires the manufacturer of the pipes installed (collars to block the pipes in the sleeve).

USE OF FLANGE

Art. 147.1 - 148.1

ITALPROFILI® flanges can be welded to HDPE bends or pipes diam. 90-110 mm. to overcome the problems such as extremely thick roof sections (see drawing A) where it is necessary to connect to the existing drain or to have a deep penetration into the old drainpipe.

INSTALLATION METHOD

Art. 147 - 148

- 1 - Prepare a suitable hole where the drain unit is to be installed.
- 2 - Place the drain in position and connect it to the discharge pipe.
- 3 - Install the waterproofing membrane.
- 4 - Use a trowel to spread the liquid APP or SBS from the membrane until the ridges of the flange are completely covered.
- 5 - Position pipe Art. 146 and grille Art. 143 and proceed with finishing around the drain.

N.B.: Avoid installing drains in areas likely to freeze.

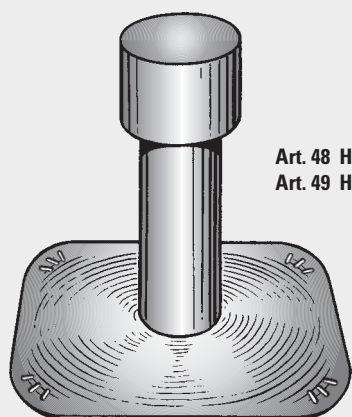
DESCRIPTION OF SPECIFICATIONS

Art. 147 - 148

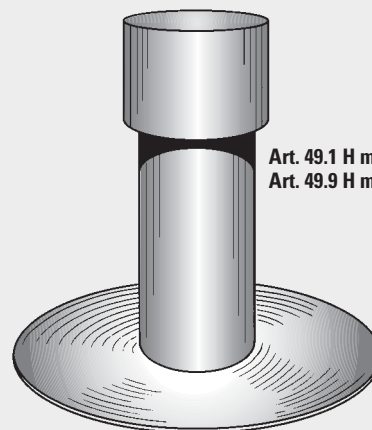
Supply and install ITALPROFILI® drain unit(s) with horizontal discharge, weldable to HDPE pipe or to be inserted into pipe having a diameter of 50 or 75 mm. with seal ring.

AIR VENTS FOR FLAT ROOFS IN IGOM EE

laying technology

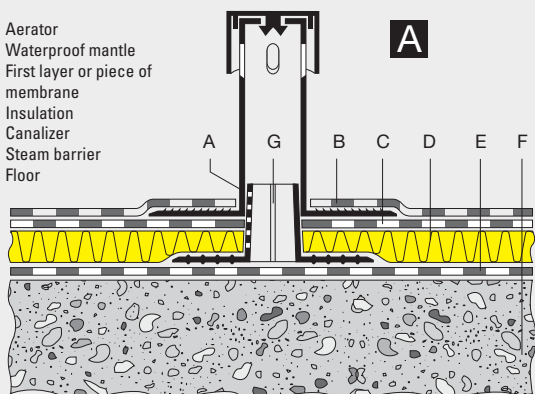


Art. 48 H mm. 200 ø 75
Art. 49 H mm. 270 ø 75

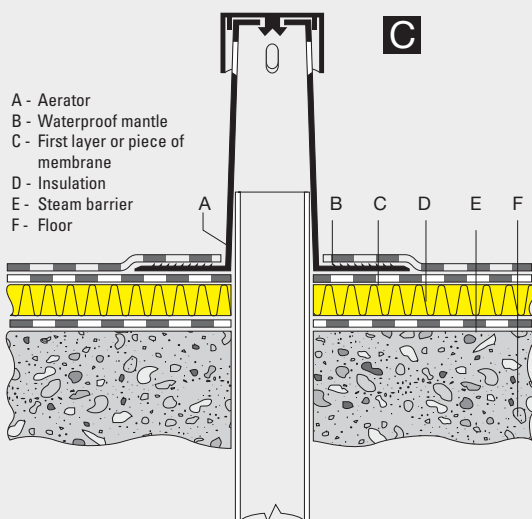
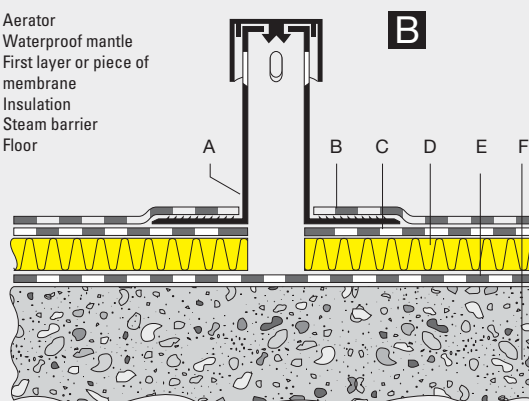


Art. 49.1 H mm. 325 ø 110
Art. 49.9 H mm. 500 ø 110

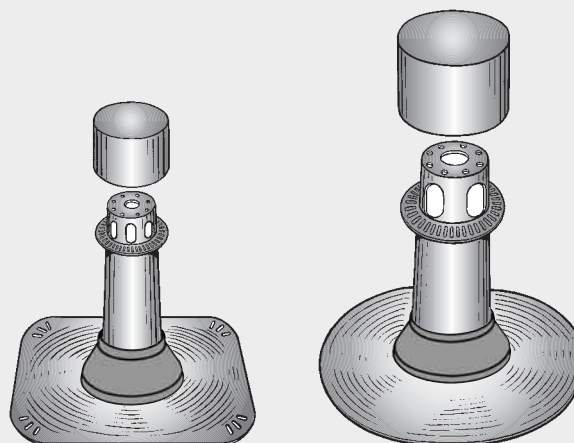
- A - Aerator
- B - Waterproof mantle
- C - First layer or piece of membrane
- D - Insulation
- E - Canalizer
- F - Steam barrier
- G - Floor



- A - Aerator
- B - Waterproof mantle
- C - First layer or piece of membrane
- D - Insulation
- E - Steam barrier
- F - Floor



- A - Aerator
- B - Waterproof mantle
- C - First layer or piece of membrane
- D - Insulation
- E - Steam barrier
- F - Floor



INSTALLATION METHOD

Art. 48 - 49 - 49.1 - 49.9

Supposing that the steam barrier has already been placed on the slab, drill it where the duct for air vent is placed on the highest points of the covering, by simply laying it (drawing A). Then lay the insulating panel, appropriately drilled for the passage of the central body of the duct for air vent. The first layer of waterproof membrane is to be laid drilling it by the duct for air vent, and the surface that will be covered by the aerator flange is to be heated by flame, then lay the aerator.

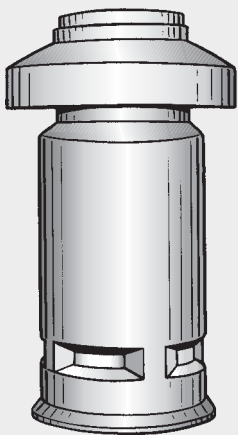
Lay the second waterproof membrane without bending the emerging part of the aerator (in case of stiff insulation, you can omit the duct for air vent, see drawing B, and in case of a single membrane layer, use a piece of 50x50 cm., appropriately drilled as second layer).

DESCRIPTION OF SPECIFICATIONS Art. 48 - 49

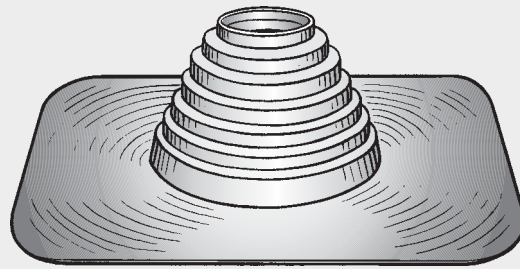
Supply and laying of aerators for ventilations between, steam barrier and waterproofing, art. 48-49 provided with anti insect ring and collar. Air vents shall be of IGOM EE of the ITALPROFILI® type and laid between the last two membranes layers, supplied with a cover which is press fitted as an insect barrier. We suggest one piece each 30 m².

DESCRIPTION OF SPECIFICATIONS Art. 49.1 - 49.9

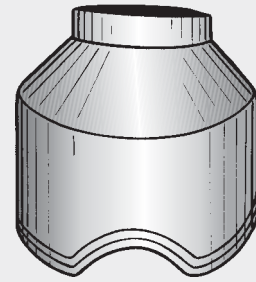
Supply and laying of aerators for ventilations of kitchens, bathrooms, pipes coming from beneath, provided with anti insect ring and collar, art. 49.1 h. 325 Ø 110, art. 49.9 h. 500 Ø 110. ITALPROFILI® air vents type and laid between the last two membranes layers, supplied with a cap which is press fitted as an insect barrier with a ribbed flange which is welded into position between the first and second layer of the waterproofing membranes. Italprofil® air vents must be made from IGOM EE by ITALPROFILI® (drawing C).



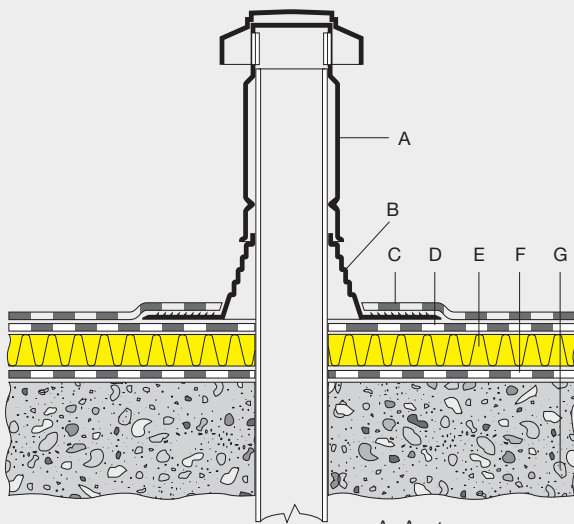
Art. 54 - 56
Art. 55 - 57



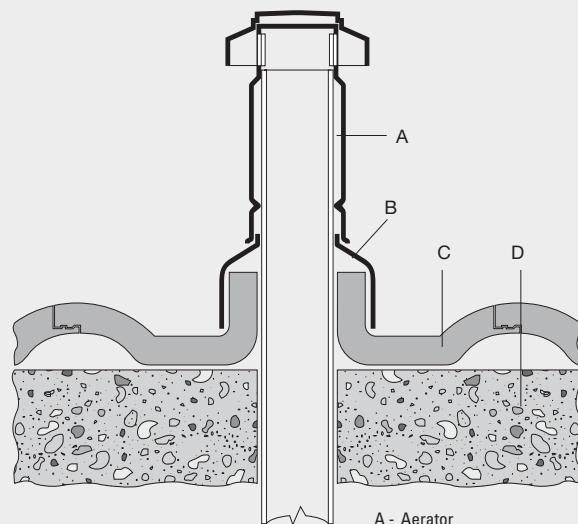
Art. 58



Art. 60



A - Aerator
B - Bellows base
C - Waterproof mantle
D - First layer or piece of membrane
E - Insulation
F - Steam barrier
G - Floor



A - Aerator
B - Tile protection
C - Tile mantle
D - Floor

INSTALLATION METHOD

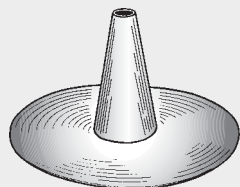
On level surfaces it is necessary that the breather pipe coming from the internal room emerges for 31 cm. for any diameters. Lay the first layer of waterproof membrane, drilling it by the pipe, heat the surface that will cover the flange of the bellows base by flame and lay it.

Lay the second layer of waterproof membrane without bending it, insert the aerator. In case of tile roofs, the pipe shall go beyond the border of the tile hole for at least 30 centimetres, then the protection and the aerator with a \varnothing 100 shall be inserted in it.

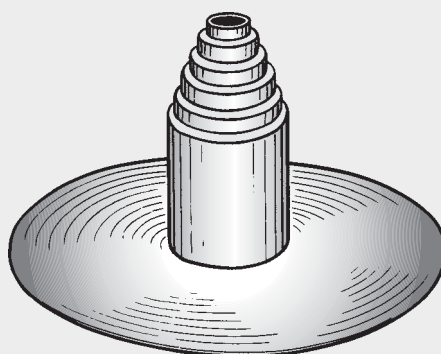
DESCRIPTION OF SPECIFICATIONS

Supply and laying of steam exhaust aerators for aeration pipes in bathrooms, kitchens, etc., \varnothing 100 h. 305 mm. - \varnothing 125 h. 350 mm. and the relative bellows base for the connection to the waterproofing, laid between two membrane layers.

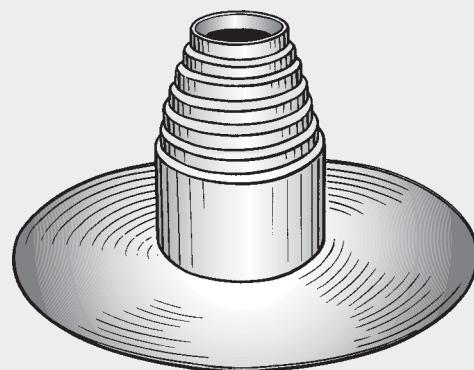
N.B.: In case of a roof with concrete tiles, the tile protection art. 60 is applied instead of the bellows base.



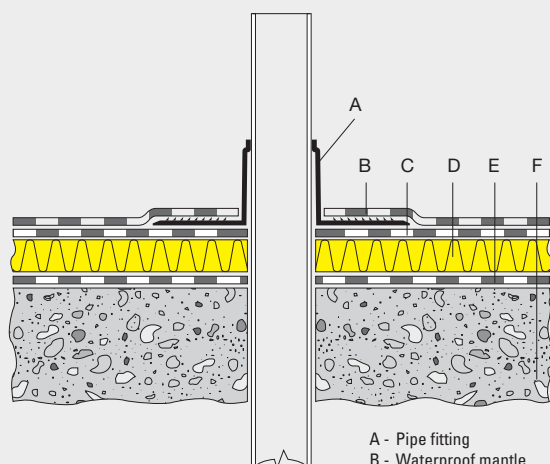
Art. 138



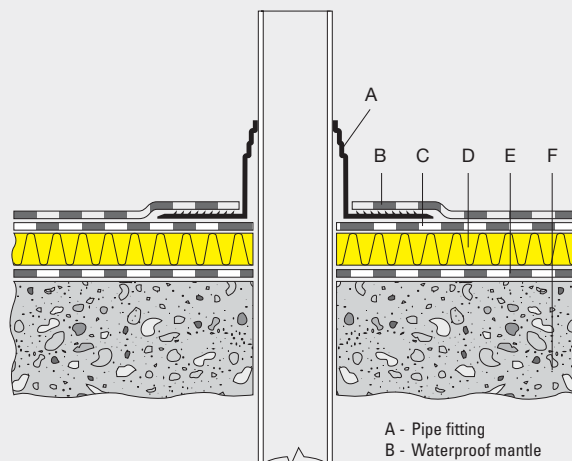
Art. 113



Art. 114



- A - Pipe fitting
- B - Waterproof mantle
- C - Fist layer or piece of membrane
- D - Insulation
- E - Steam barrier
- F - Floor



- A - Pipe fitting
- B - Waterproof mantle
- C - Fist layer or piece of membrane
- D - Insulation
- E - Steam barrier
- F - Floor

INSTALLATION METHOD

Prepare the pipe fitting, cutting it in the step suitable for the size of the pipe to be jointed; after having laid the first layer, heat the area that is to be covered with the flange, by flame, insert the fitting in the pipe and make it adhere to the surface. Smear the flange with paste of membrane that has been made poured by flame, filling all the ribs. Lay the waterproof layer, preparing a hole of the same size as the fitting shaft (non bending is needed), apply the hose clamp to its housing.

DESCRIPTION OF SPECIFICATIONS

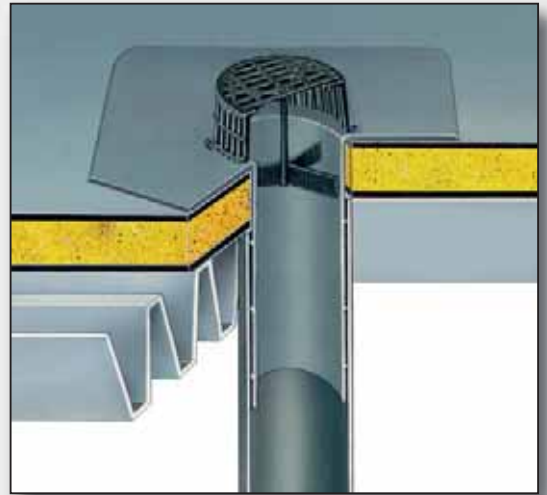
Supply and laying of pipe fittings of the ITALPROFILI® type based on IGOM CE synthetic rubber, suitable for jointing pipes with the following diameters: 34-50-60-75-80-90-100-110-115-125. The flange is round, knurled and flexible; the hose clamps shall be made of stainless steel.

ITALPROFILI®

**ROOFING ACCESSORIES SUITABLE
FOR APPLICATION WITH
SYNTHETIC PVC MEMBRANES**



PVC ROOF DRAIN



Art. 24
Leaf-grate and/or
gravel-grate
suitable for roof drains
from mm. 60 Ø
to mm. 160 Ø



Art. 24.2
Suitable for
roof drains
from mm. 60 Ø
to mm. 200 Ø

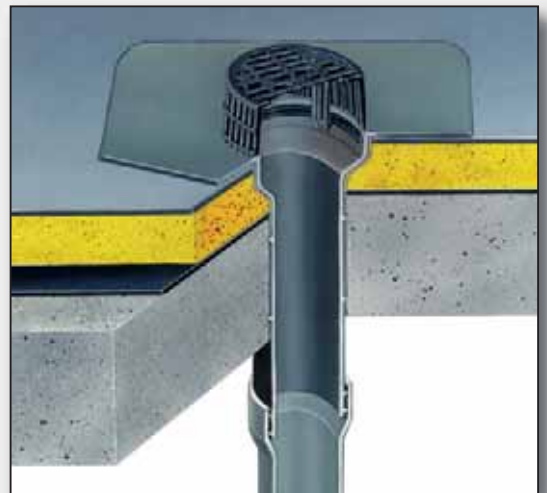


Art. 24.1
Suitable for
roof drains
from mm. 60 Ø
to mm. 200 Ø



Buttonhole
plates for
gravel-grate

NEW ANTIBACKUP PREVENTER IN PVC



Art. 38
Gap mm. 6



Art. 38 bis
Gap mm. 14



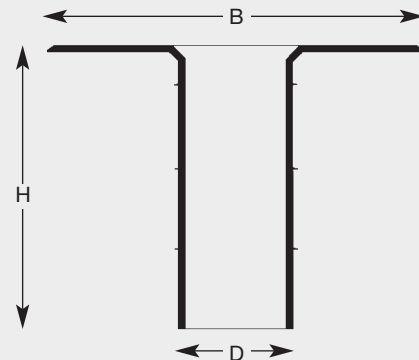
Ring for junction

PVC ROOF DRAIN

ITALPROFILI® PVC ROOF DRAIN, has the same characteristics of the Antibackup Roof Drain (page 4). It can be used on roofs covered with PVC synthetic membranes, the difference is on the smooth flange for an easier application with the synthetic waterproofing systems such as PVC.

■ **INSTALLATION METHOD PAG. 44**

ART.	1.2	13.1	21	14A	22	16.1	23	17A	112A
DENOM	60	75	80	90	100	110	125	140	160
B	245	300	310	320	325	335	350	360	385
H	250	250	250	250	250	250	250	250	250
D	54	66	73	83	92	100	116	132	148



Art. 115
Internal corner
side mm. 100



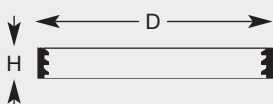
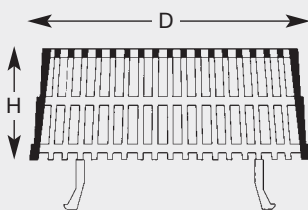
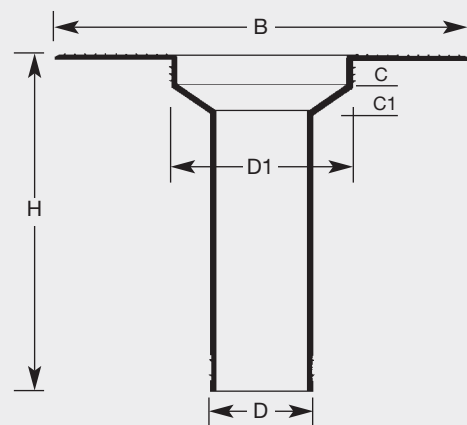
Art. 116
External corner
side mm. 110

NEW ANTIBACKUP PREVENTER IN PVC

The PVC ANTI-BACKUP PREVENTER ROOF DRAIN, has the same characteristics of the New Backup Preventer Roof Drain (page 8). It can be used on roofs covered with PVC synthetic membranes, the difference is on the smooth flange for an easier application with the synthetic waterproofing systems such as PVC.

■ **INSTALLATION METHOD PAG. 44**

ART.	108	31	32	109.1	33	34	97	100
DENOM	75	80	100	110	125	140	160	200
B	400	400	400	400	400	400	400	400
H	330	330	330	330	330	330	330	330
D	75	80	100	110	125	140	151	191
D1	170	170	170	170	170	170	170	-
C	30	30	30	30	30	30	30	-
C1	25	25	25	25	25	25	25	-



N.B.:

Art. 38 gap mm. 6.
Art. 38 gap mm. 14.

**LEAF-GRATE
and/or GRAVEL-GRATE**

ART.	38	38bis
D	180	180
H	80	80

RING

D	170
H	30

PVC ANGLED ROOF DRAIN



Art. 45.1

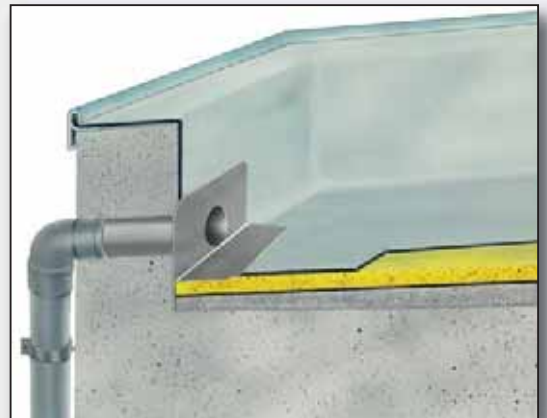
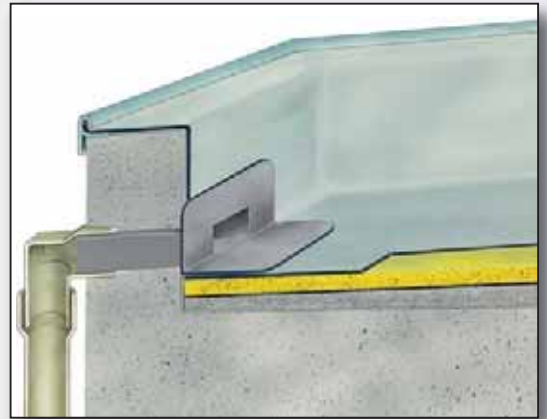


Art. 39.2A



**Art. 304A
Art. 305A
Art. 307A**

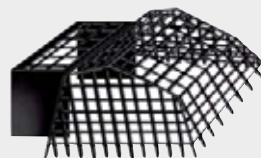
**Art. 310A
Art. 311A
Art. 312A**



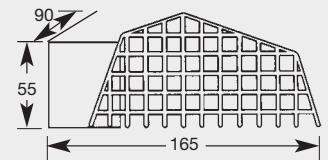
Art. 46 Curve Ø 80



Art. 47 Curve Ø 100



Art. 44.1 Leaf grate



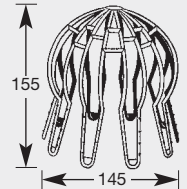
Art. 40
Curve
from 100
square Ø 80



Art. 41
Curve
from 100
square Ø 100



Art. 26 Leaf-grate



Art. 42
Curve
mm. 100x100



Art. 43
Reducer
mm. 100x100 Ø 100



Art. 315
Curve
Ø 100



Art. 320
Curve
Ø 110



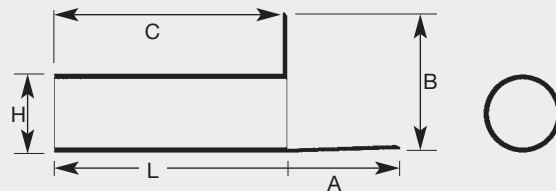
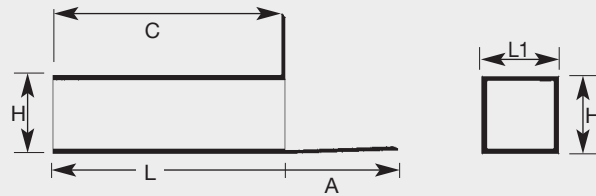
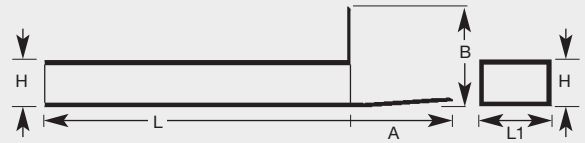
**Art. 118G
Art. 118M**
Drain box

PVC ANGLED ROOF DRAIN

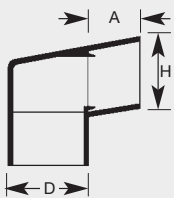
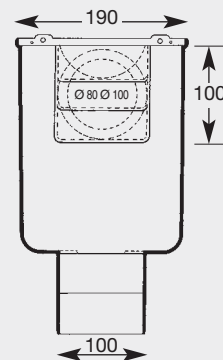
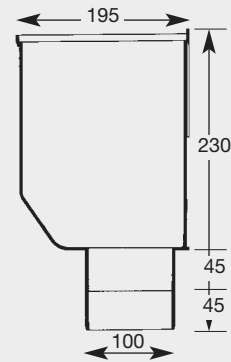
PVC ANGLED ROOF DRAINS 90° rectangular **Art. 45.1**, square **Art. 39.2A**, with rounded pipe **Art. 304A - 305A - 307A - 310A - 311A - 312A**, offer as one of the main characteristics the use either as an external or internal drain and especially for horizontal drains through thick outer walls. The ITALPROFILI® angled roof drains are used in conjunction with bends or fittings having seal rings and thus the joint can be within the wall and the down pipe can be placed at a minimum distance from the wall. Installation should be carried out at 3° slope.

■ **INSTALLATION METHOD PAG. 45 and 46**

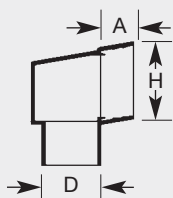
ART.	45.1	39.2A	304A	305A	307A	310A	311A	312A
A	120	100	120	120	120	120	120	120
B	140	180	170	170	170	170	170	170
C	-	39.2	500	500	500	500	500	500
H	65	100	63	75	80	100	110	115
L1	97	100	-	-	-	-	-	-
L	450	500	500	500	500	500	500	500



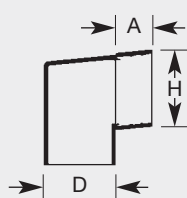
ART.	46	47	40	41	42	43	315	320
A	50	50	50	50	50	50	65	65
D	80	100	Ø 80	Ø 100	100x100	Ø 100	Ø 100	Ø 110
H	68x100	68x100	100x100	100x100	100x100	100x100	Ø 110	Ø 110



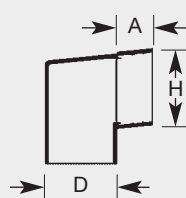
Art. 46



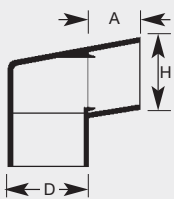
Art. 40



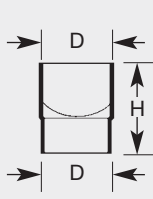
Art. 41



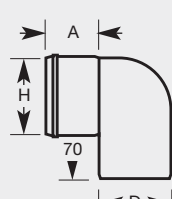
Art. 42



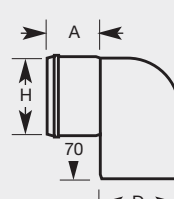
Art. 47



Art. 43



Art. 315

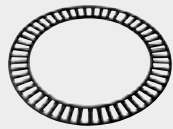


Art. 320

PVC AIR VENTS



Art. 50



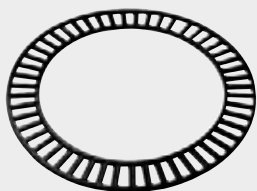
Art. 48.3



Art. 48.8



Art. 49.3



Art. 49.7



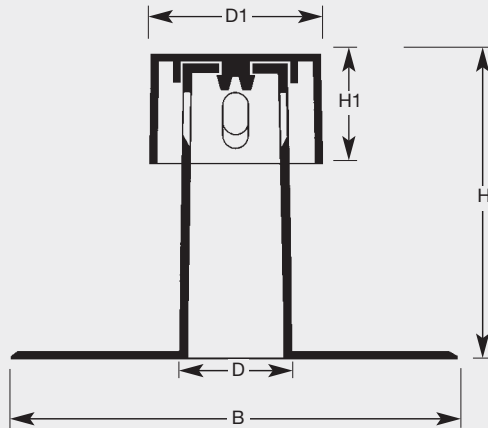
Art. 49.8

PVC AIR VENTS

ITALPROFILI® AIR VENT Art. 50 here represented is suitable for waterproofing membranes such as PVC.

■ **INSTALLATION METHOD PAG. 47**

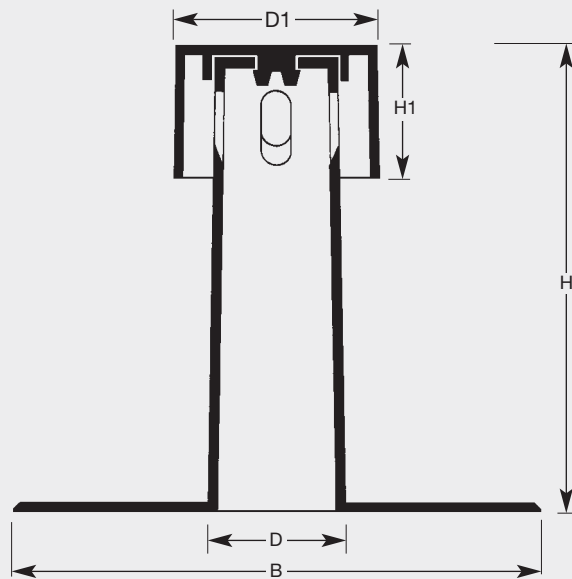
ART.	50
B	300x300
D	75
H	200
H1	80
D1	110



ITALPROFILI® AIR VENT Art. 49.3 here represented is suitable for use to aerate different rooms, application with pipes coming from beneath Ø mm. 100-110, compatible with synthetic membranes such as PVC.

■ **INSTALLATION METHOD PAG. 47**

ART.	49.3
B	Ø360
D	110
H	325
H1	95
D1	145



VAPOR-PROOF AERATOR AND PVC PIPE FITTING

ACCESSORIES SUITABLE
FOR PVC MEMBRANES



Art. 54
Art. 56
Grey

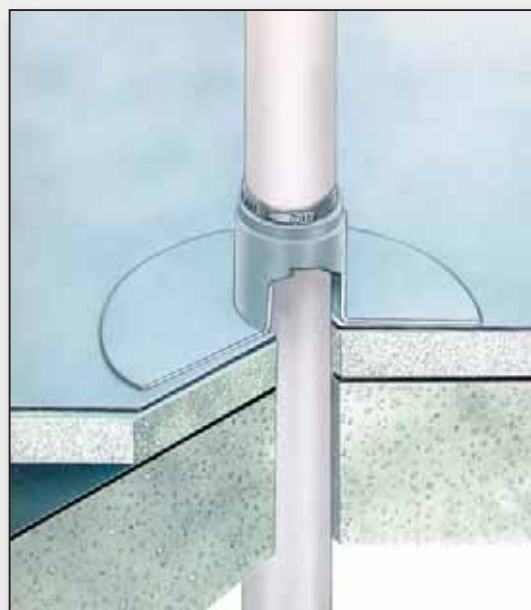
Art. 59



Art. 113.1



Art. 139



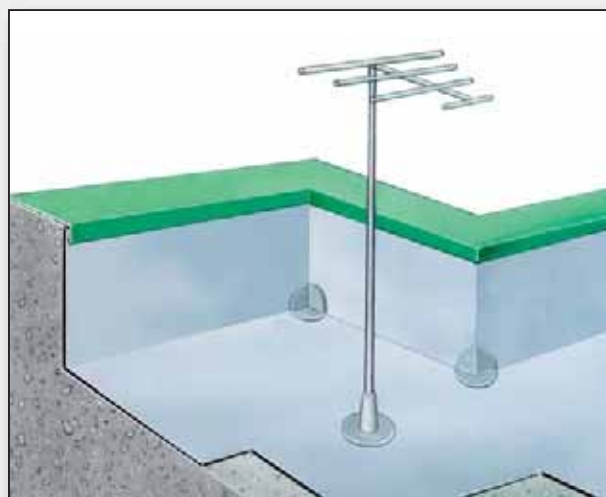
Art. 114.1



Art. 115



Art. 116

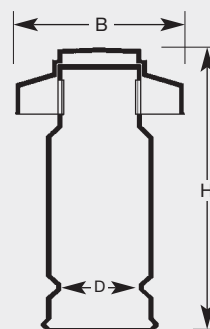


VAPOR-PROOF AERATOR AND PVC PIPE FITTING

The **VAPOR-PROOF AERATOR** is suited to ventilate bathrooms, kitchens, workrooms and all the rooms where steam come from. It is so called as the vent is built in order to avoid steam build-up and its consequent dripping down along the leak pipes, when these are stressed by released steam. Available in colours: grey and brown.

■ **INSTALLATION METHOD PAG. 48**

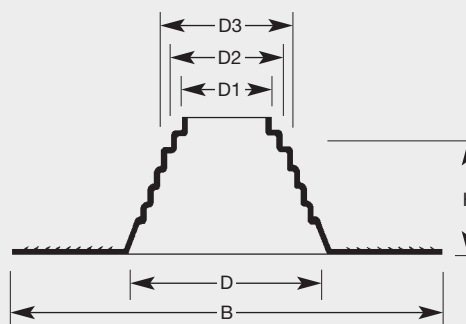
ART.	54	56
D	100	125
D1	120	150
B	180	220
H	300	350



Art. 59 flexible collars are suitable for connecting downpipes to the waterproofing system as PVC.

■ **INSTALLATION METHOD PAG. 48**

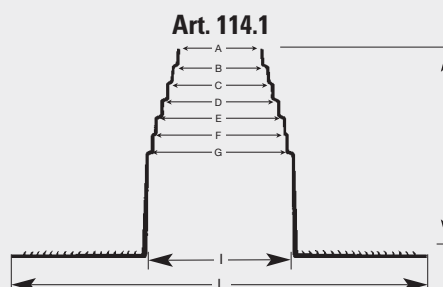
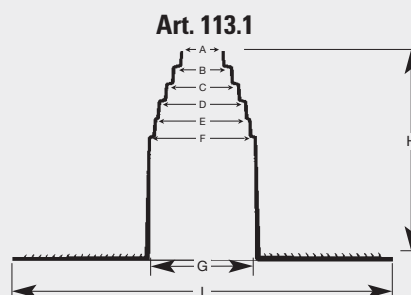
ART.	59
B	Ø410
D	190
D1	80
D2	100
D3	125



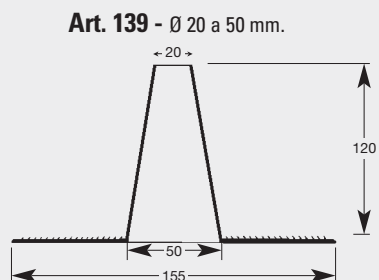
Art. 113.1 - 114.1 Pipe fittings for connecting downpipes suitable for application with synthetic membranes such as PVC.

■ **INSTALLATION METHOD PAG. 48**

ART.	113.1	114.1
A	34	75
B	50	80
C	60	90
D	75	100
E	80	110
F	90	115
G	93	125
I	340	127
L		365
H	180	180

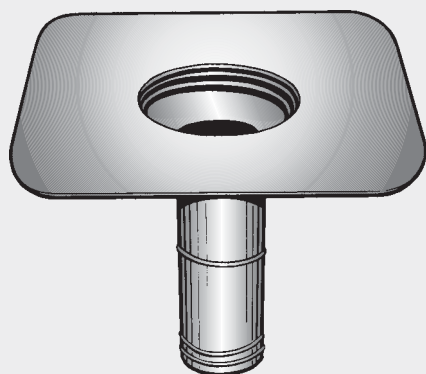


ART.	139
D1	20
B	155
H	120
D	50

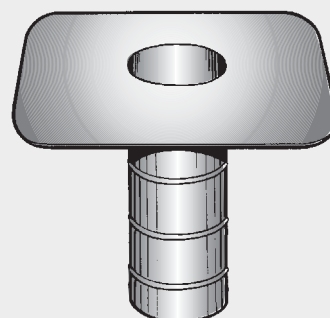


PVC ANTIBACKUP ROOF DRAIN - NEW ANTIBACKUP PREVENTER IN PVC

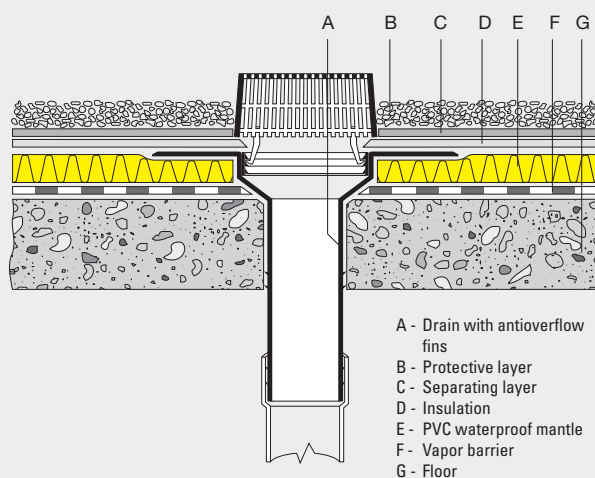
laying technology



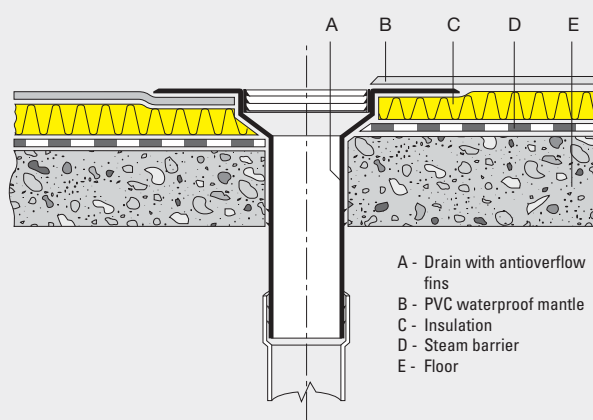
H mm. 330



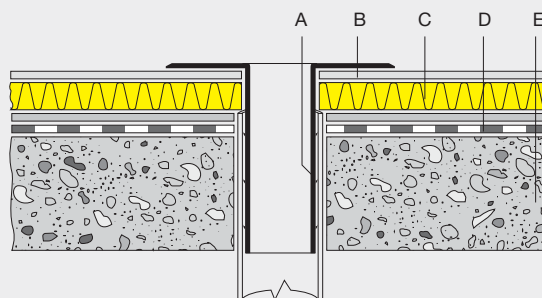
H mm. 250



- A - Drain with antioverflow fins
- B - Protective layer
- C - Separating layer
- D - Insulation
- E - PVC waterproof mantle
- F - Vapor barrier
- G - Floor



- A - Drain with antioverflow fins
- B - PVC waterproof mantle
- C - Insulation
- D - Steam barrier
- E - Floor



- A - Drain with antioverflow fins
- B - PVC waterproof mantle
- C - Insulation
- D - Steam barrier
- E - Floor

INSTALLATION MANUAL OF THE NEW DRAIN - H 330 mm.

Complete spreading of the PVC membrane, drill the membrane by the rain drain, insert the drain into the pipe, weld the flange on the membrane with hot air. "Alternatively adhesives suitable for stabilized PVC. may be used", insert the ring impregnated with adhesive, connect the leaf grate and/or gravel grate to it.

N.B.: If necessary, the flange can be fixed on top of the membrane.

INSTALLATION MANUAL OF ROOF DRAIN - H 250 mm.

Complete spreading of the PVC membrane, lay the membrane by the rain drain, insert the drain into the pipe, weld on the membrane with hot air. "Alternatively, use adhesives suitable for stabilized PVC", insert the leaf grate and/or gravel grate in their housing.

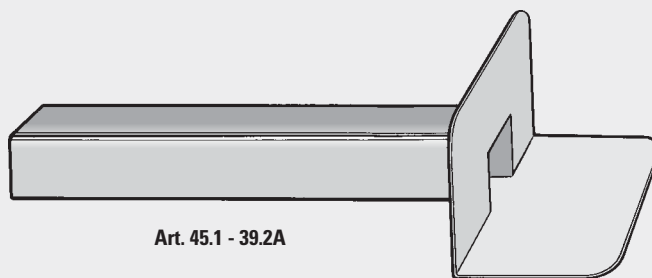
N.B.: If necessary, the flange can be fixed on top of the membrane.

DESCRIPTION OF SPECIFICATIONS PVC ANTIBACKUP ROOF DRAIN - H mm. 330

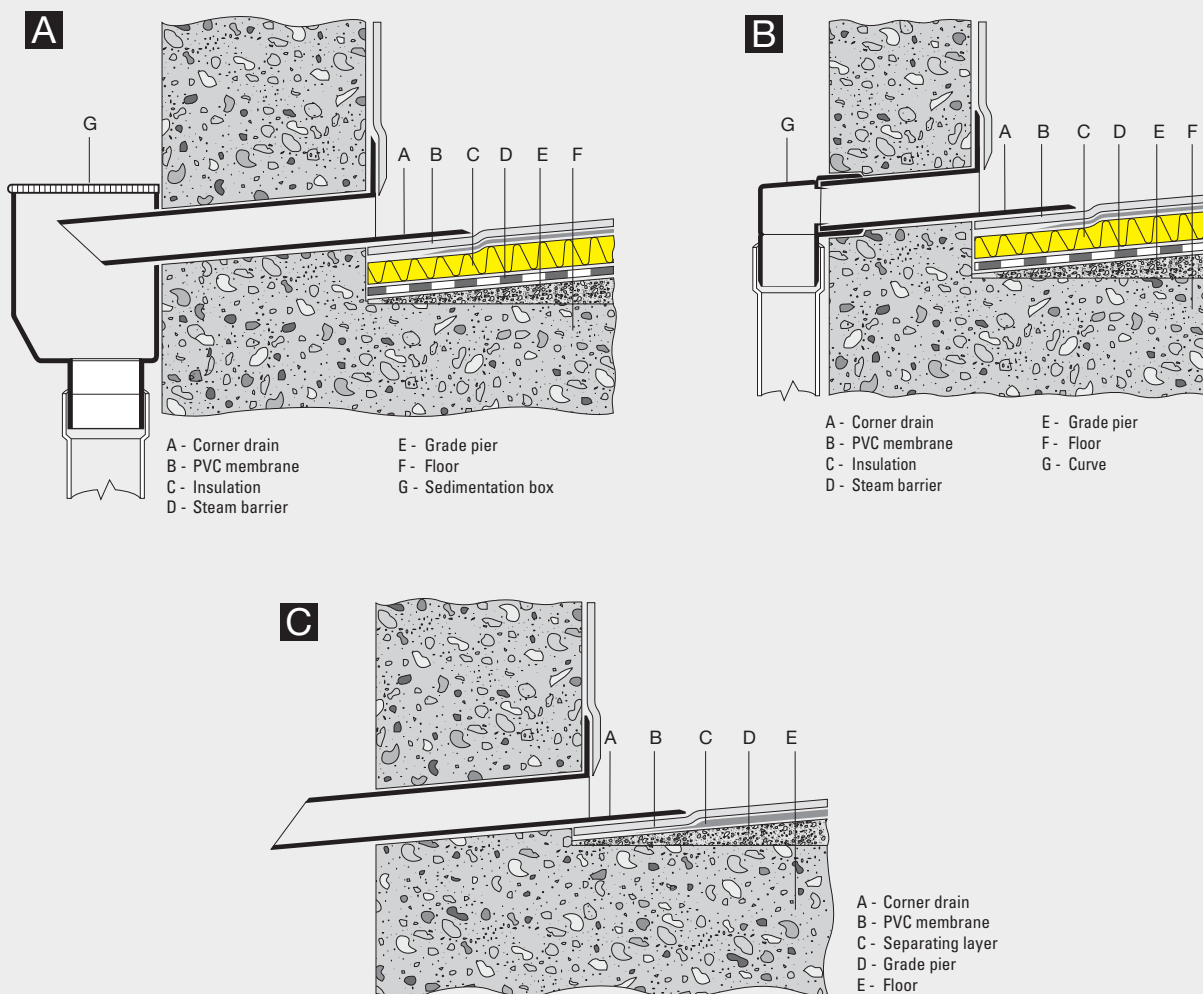
Supply and laying of ITALPROFILI® drain of the New type of stabilized PVC with a smooth flange 400x400 mm., a flat funnel 30 mm. high, diameter 170 mm., an anti-backup shaft 330 mm. high, suitable for pipes with a Ø of..... complete with leaf grate and/or gravel grate gap 6 or 14 mm.).

DESCRIPTION OF SPECIFICATIONS PVC ANTIBACKUP ROOF DRAIN - H mm. 250

Supply and laying of Universal stabilized PVC drain with an anti-backup shaft 250 mm. high suitable for pipes with a Ø of..... with a smooth flange provided with the connection for Leaf grate / Gravel grate .



Art. 45.1 - 39.2A



INSTALLATION MANUAL

Art. 45.1 e 39.2A IN PVC

- 1 - Spreading of the PVC membrane; cut the membrane by the hole.
- 2 - Try the drain in the hole and, at the same time, mark the point to cut in relation to the thickness of the wall. The cutting of the pipe shall be made in such a way that the lower part is 5 mm. longer than the higher one, in case this is used with curves art. 46 and 47. In case the drain is placed in the box art. 118, it shall be cut at 45° (see drawing A) and laid with a grade of 3°.
- 3 - Weld the drain flange on the membrane (see drawing B), with hot air or with adhesives suitable for plasticized PVC.
- 4 - Before inserting the curve, pass an adhesive cord suitable for plasticized PVC after having inserted the curves, make sure that the drain pipe is inserted in the four tangs that are inside the curves.
- 5 - Insert the Leaf grate/Gravel grate - art. 44.1 (for art. 45.1) and/or art. 44 (for art. 39.2A).

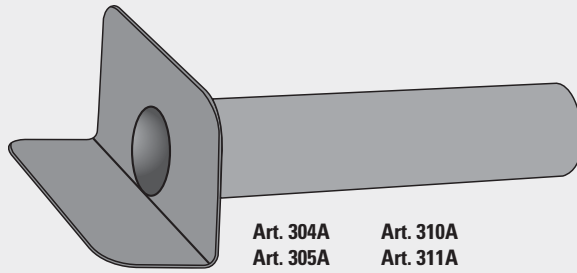
N.B.: point 1 can be inverted with point 2.

DESCRIPTION OF SPECIFICATIONS - Art. 45.1

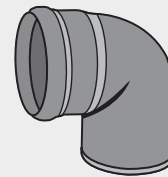
Supply and laying of stabilized PVC drain of the ITALPROFILI® type, with an angle of 90°, with the following dimensions: shaft 450 mm. long, 65 mm. high, 100 mm. wide the flange shall be smooth and flexible, provided with curves for the connection to downspouts, with a Ø of 80 or 100 or/and a funnel box.

DESCRIPTION OF SPECIFICATIONS - Art. 39.2A

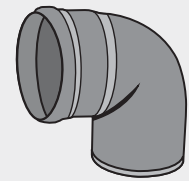
Supply and laying of stabilized PVC drain of the ITALPROFILI® type, with an angle of 90°, with the following dimensions: shaft 500 mm. long, 100 mm. high, 100 mm. wide the flange shall be smooth and flexible, provided with curves for the connection to downspouts, with a Ø of 80 or 100 or/and a funnel box to downspouts, complete with Leaf grate/Gravel grate.



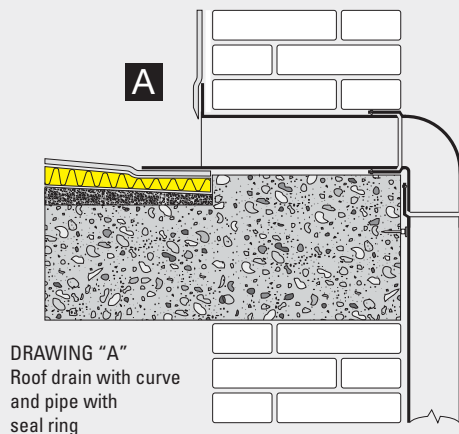
Art. 304A Art. 310A
Art. 305A Art. 311A
Art. 307A Art. 312A



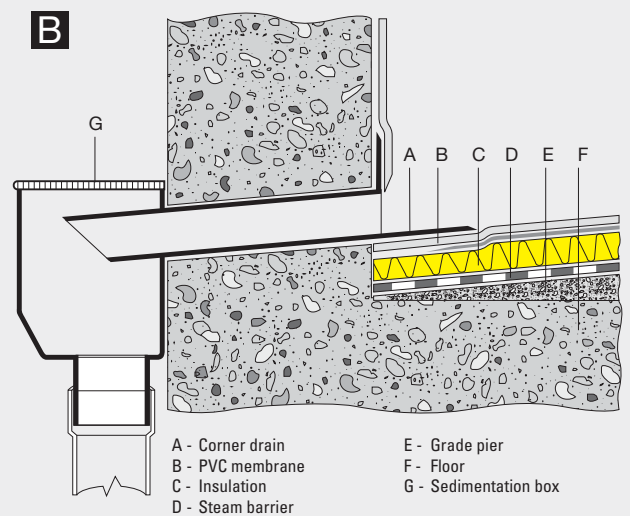
Art. 320



Art. 315

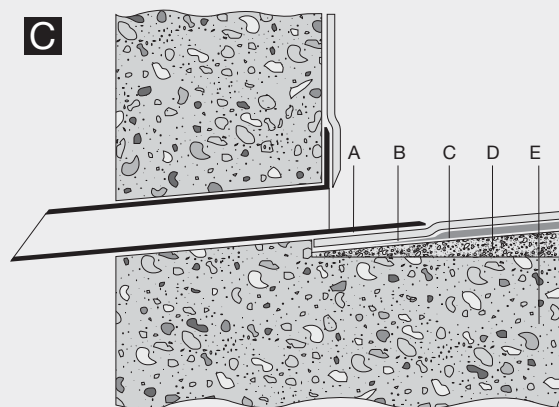


DRAWING "A"
Roof drain with curve
and pipe with
seal ring



A - Corner drain
B - PVC membrane
C - Insulation
D - Steam barrier

E - Grade pier
F - Floor
G - Sedimentation box



A - Corner drain
B - PVC membrane
C - Separating layer
D - Grade pier
E - Floor

INSTALLATION MANUAL

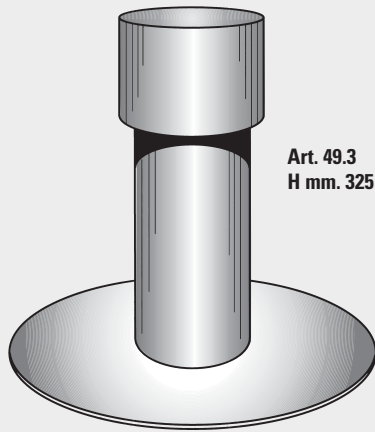
Art. 304A - 305A - 307A - 310A - 311A - 312A - 315 - 320

- 1 - Spreading of the PVC membrane; cut the membrane by the hole.
- 2 - Try the drain in the hole and, at the same time, mark the point to cut in relation to the thickness of the wall. The cutting of the pipe shall be made in such a way that the lower part is 5 mm. longer than the higher one, in case this is used with curves with a \emptyset In case the drain is placed in the box art. 118, it shall be cut at 45° (see drawing B) and laid with a grade of 3°.
- 3 - Weld the drain flange on the membrane (see drawing B), with hot air or with adhesives suitable for plasticized PVC.
- 4 - Before inserting the curve, pass an adhesive cord suitable for plasticized PVC, if possible use curves provided with seal piece.
- 5 - Insert the Leaf grate/Gravel grate - art. 26.

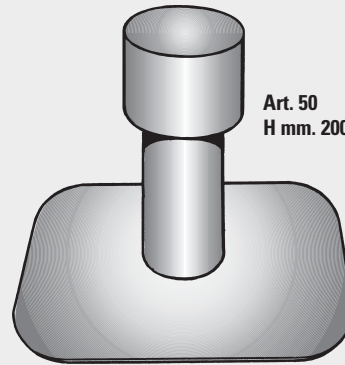
N.B.: point 1 can be inverted with point 2.

DESCRIPTION OF SPECIFICATIONS

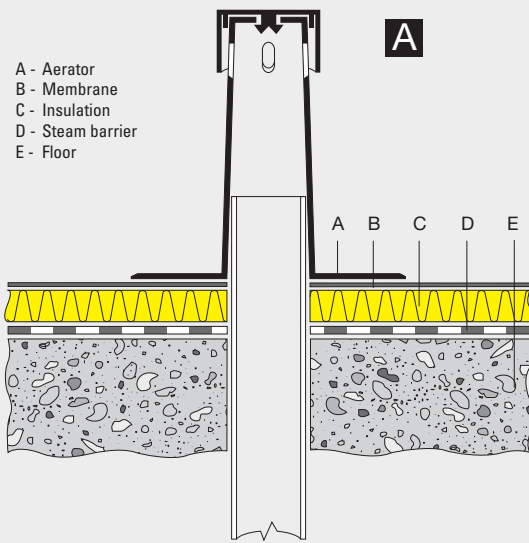
Supply and laying of stabilized PVC drain of the ITALPROFILI® type, with an angle of 90°, with the following dimensions: shaft 500 mm. long, \emptyset, the flange shall be smooth and flexible, provided with curves for the connection to downspouts, with a \emptyset or/and a funnel box to downspouts, complete with Leaf grate/Gravel grate.



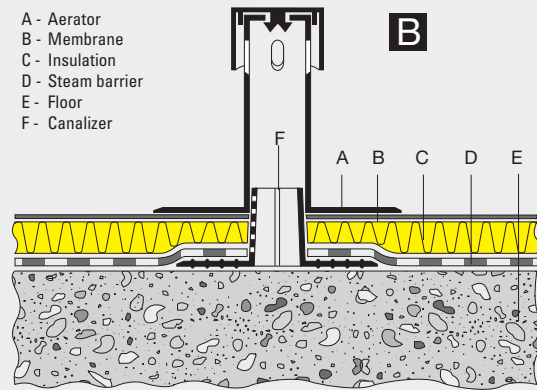
Art. 49.3
H mm. 325 Ø 110



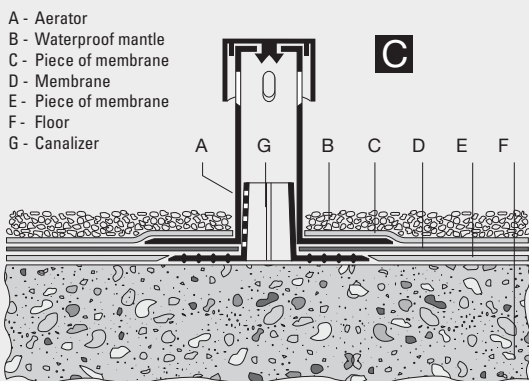
Art. 50
H mm. 200 Ø 75



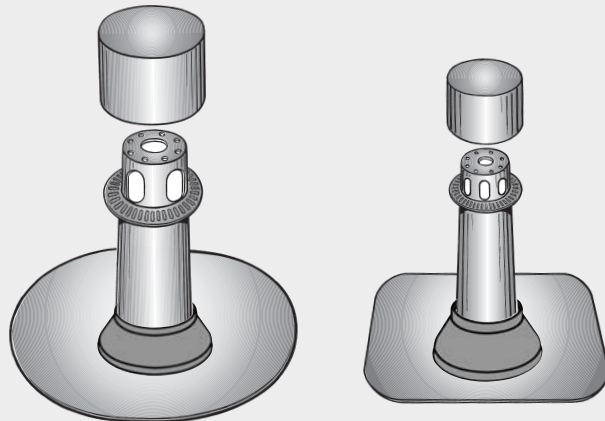
A - Aerator
B - Membrane
C - Insulation
D - Steam barrier
E - Floor



A - Aerator
B - Membrane
C - Insulation
D - Steam barrier
E - Floor
F - Canalizer



A - Aerator
B - Waterproof mantle
C - Piece of membrane
D - Membrane
E - Piece of membrane
F - Floor
G - Canalizer



INSTALLATION MANUAL

Art. 49.3 - 50

Supposing that the steam barrier has already been placed on the slab, drill it where the duct for air vent is placed on the highest points of the covering, by simply laying it.

The insulation materials are then installed around the central body as per drawing A for a vent pipe or B for an air vent.

The waterproofing membrane is then cut and installed around the vertical pipe. The air vent itself is then welded using a hot air gun on top of the membrane itself.

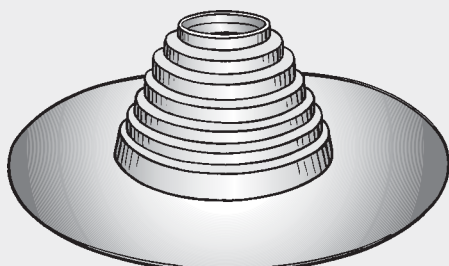
DESCRIPTION OF SPECIFICATIONS Art. 49.3

Supply and install ITALPROFILI® air vents for the ventilation of kitchen and bathroom areas to be fitted to existing outlet pipes and provided with anti insects ring and collar.

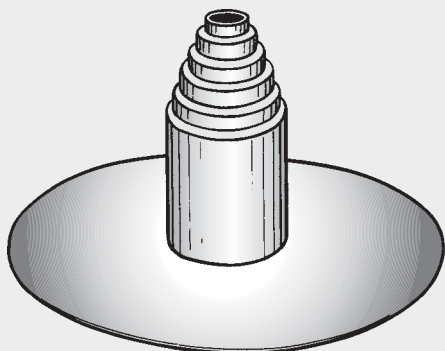
Consisting of a cylindrical aerator suitable for use with Ø 100-110 mm. pipes, having a height of 325 mm. complete with a push-fit cap and insect barrier with flange for welding to PVC waterproofing by hot air welding on top of the membrane.

DESCRIPTION OF SPECIFICATIONS Art. 50

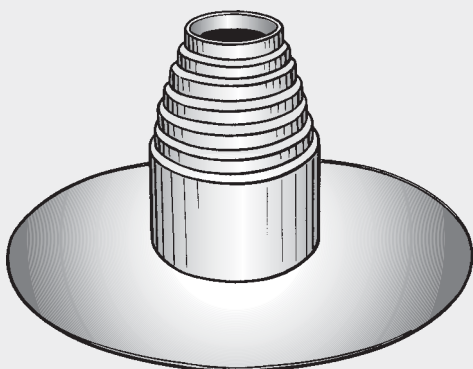
Supply and install ITALPROFILI® air vents, provided with anti insects ring and collar, between vapour barrier and PVC waterproofing membrane, duct for air vent is placed on the highest points of the covering. Consisting of a cylindrical body Ø 75 mm, having a height of 200 mm. complete with a push-fit cap and insect barrier with smooth flange for welding to PVC waterproofing by hot air welding on top of the membrane.



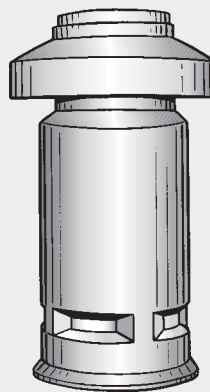
Art. 59



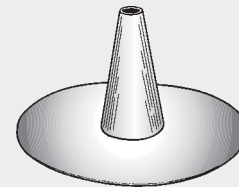
Art. 113.1 - from Ø 50 to Ø 90



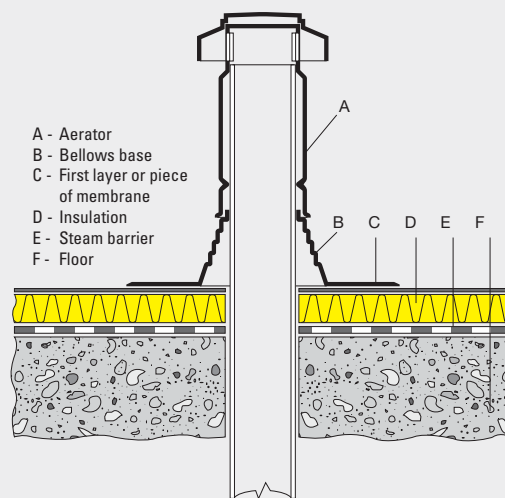
Art. 114.1 - from Ø 75 to Ø 125



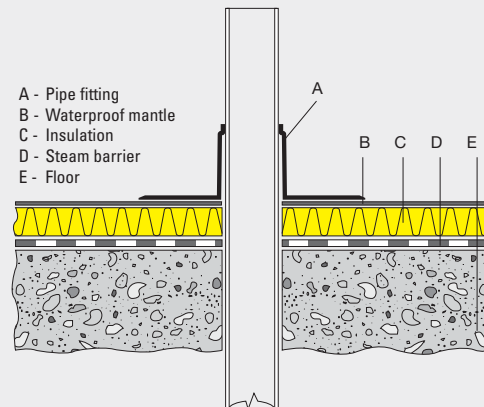
Art. 54 - Art. 55
Art. 56 - Art. 57



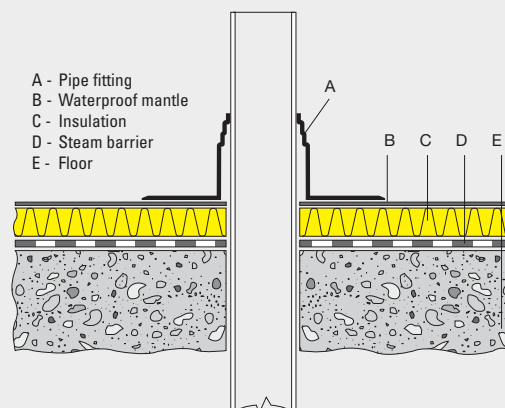
Art. 139



- A - Aerator
- B - Bellows base
- C - First layer or piece of membrane
- D - Insulation
- E - Steam barrier
- F - Floor



- A - Pipe fitting
- B - Waterproof mantle
- C - Insulation
- D - Steam barrier
- E - Floor



- A - Pipe fitting
- B - Waterproof mantle
- C - Insulation
- D - Steam barrier
- E - Floor

INSTALLATION MANUAL

Art. 113.1 - 114.1

Install the waterproofing membrane sheet. Prepare the pipe adapter by cutting the step at the appropriate diameter. Place the adapter over the pipe and weld the flange to the waterproofing membrane using a hot air gun.

DESCRIPTION OF SPECIFICATIONS

Supply and install ITALPROFIL® pipe fitting for PVC suitable for fitting to pipe diameters 34-60-75-80-90-100-110-115-125, having a round flexible flange. Hose clips must be in stainless steel.

FLEXIBLE COLLAR Art. 59

Install the waterproofing membrane sheet. Prepare the bellows adapter by cutting the step at the appropriate diameter to suit the pipe. Place over the pipe and weld the flange to the waterproofing membrane. Cut the vent pipe at 31 cm. from the roof deck level and fit suitable diameter vapour-proof aerator.

DESCRIPTION OF SPECIFICATIONS Art. 54 - 55 - 56 - 57

Supply and install ITALPROFIL® vapour-proof aerator for bathrooms, kitchens etc. for pipe Ø 100 mm. h 305 mm.- Ø 125 mm. h 350 mm. complete with base and fitting for dealing to the waterproofing membrane.

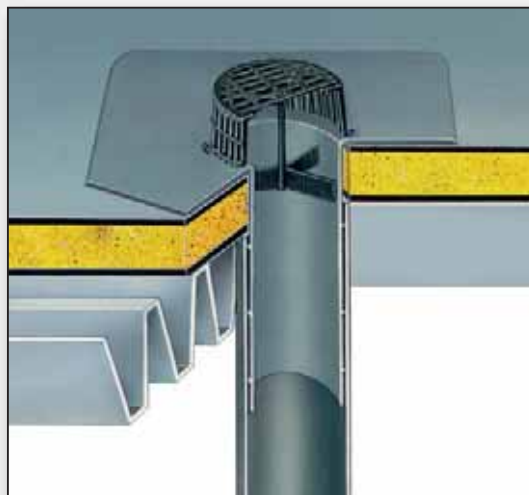
ITALPROFILI®

**ROOFING ACCESSORIES SUITABLE
FOR APPLICATION WITH
TPO SYNTHETIC MEMBRANES**

ACCESSORIES SUITABLE
FOR TPO MEMBRANES



TPO ANTIBACKUP ROOF DRAIN



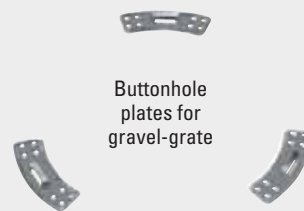
Art. 24
Leaf-grate and/or
gravel-grate
suitable for roof drains
from mm. 60 Ø
to mm. 160 Ø



Art. 24.2
Suitable for
roof drains
from mm. 60 Ø
to mm. 200 Ø

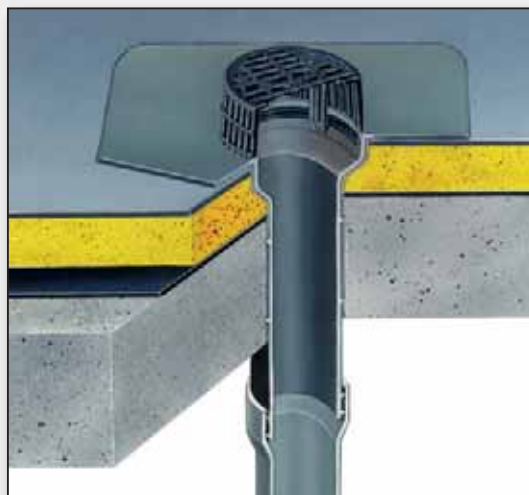


Art. 24.1
Suitable for
roof drains
from mm. 60 Ø
to mm. 200 Ø



Buttonhole
plates for
gravel-grate

NEW ANTIBACKUP PREVENTER IN TPO



Art. 38



Art. 38 bis



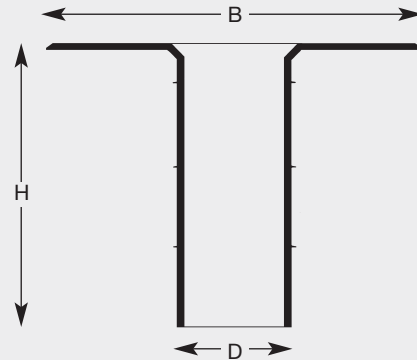
Ring for junction

TPO ROOF DRAIN

ITALPROFILI® **TPO ROOF DRAIN**, has the same characteristics of the Antibackup Roof Drain (page 4). It can be used on roofs covered with TPO synthetic membranes, the difference is on the smooth flange for an easier application with the synthetic waterproofing systems such as TPO.

■ **INSTALLATION METHOD PAG. 58**

ART.	1.3	13.3	21.3	14P	22.3	16.3	23.3	17P	112P
DENOM	60	75	80	90	100	110	125	140	160
B	245	300	310	320	325	335	350	360	385
H	250	250	250	250	250	250	250	250	250
D	54	66	73	83	92	100	116	132	148



Art. 115.2
Internal corner
side mm.100



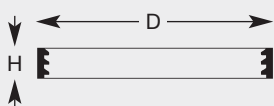
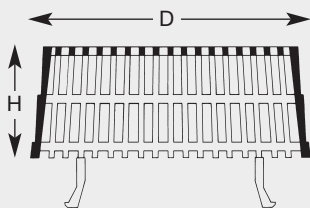
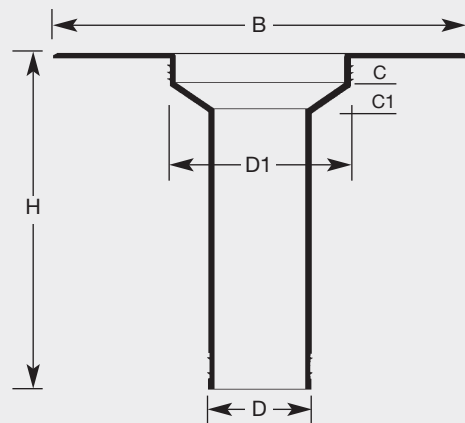
Art. 116.2
External corner
side mm.110

NEW ANTIBACKUP PREVENTER IN TPO

The **TPO ANTI-BACKUP PREVENTER ROOF DRAIN**, has the same characteristics of the New Backup Preventer Roof Drain (page 8). It can be used on roofs covered with TPO synthetic membranes, the difference is on the smooth flange for an easier application with the synthetic waterproofing systems such as TPO.

■ **INSTALLATION METHOD PAG. 58**

ART.	108.2	31.2	32.2	109.2	33.2	34.2	97.2	100.2
DENOM	75	80	100	110	125	140	160	200
B	400	400	400	400	400	400	400	400
H	330	330	330	330	330	330	330	330
D	75	80	100	110	125	140	151	191
D1	170	170	170	170	170	170	170	-
C	30	30	30	30	30	30	30	-
C1	25	25	25	25	25	25	25	-



N.B.:

Art. 38 gap mm. 6.
Art. 38 gap mm. 14.

**LEAF-GRATE
and/or GRAVEL-GRATE**

ART.	38	38bis
D	180	180
H	80	80

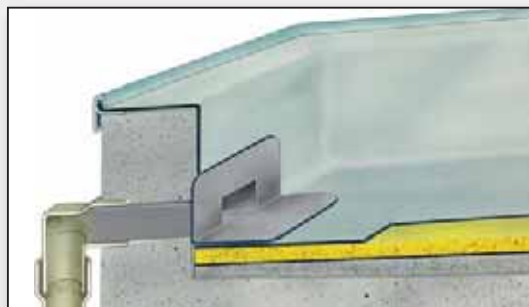
RING

D	170
H	30

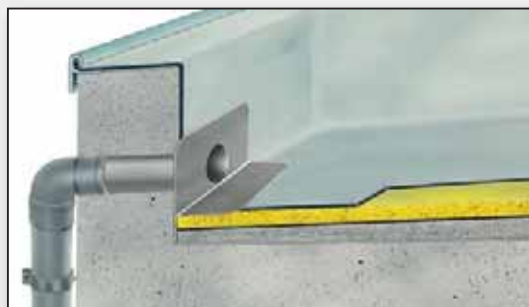
TPO ANGLED ROOF DRAIN



Art. 45.10



Art. 39.2P



**Art. 304P
Art. 305P
Art. 307P**

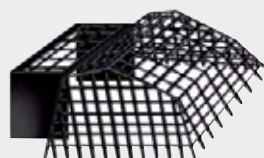
**Art. 310P
Art. 311P
Art. 312P**



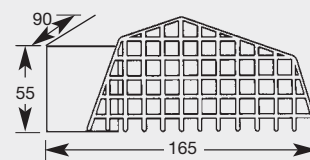
Art. 46 Curve Ø 80



Art. 47 Curve Ø 100



Art. 44.1 Leaf grate



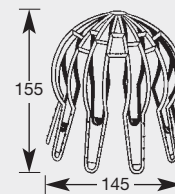
Art. 40
Curve
from 100
square Ø 80



Art. 41
Curve
from 100
square Ø 100



Art. 26 Leaf-grate



Art. 42
Curve
mm. 100x100



Art. 43
Reducer
mm. 100x100 Ø 100



Art. 315
Curve
Ø 100



Art. 320
Curve
Ø 110



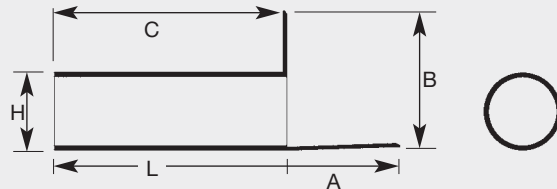
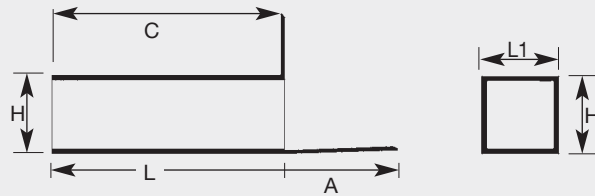
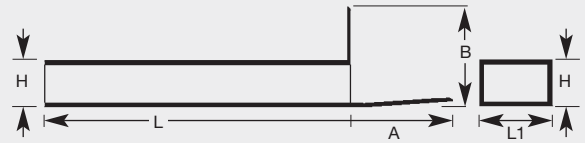
**Art. 118G
Art. 118M**
Drain box

TPO ANGLED ROOF DRAIN

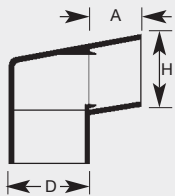
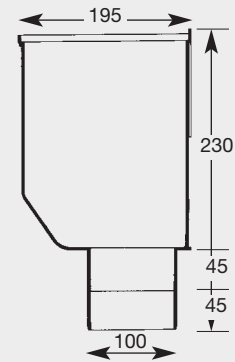
TPO ANGLED ROOF DRAINS 90° rectangular **Art. 45.1**, square **Art. 39.2A**, with rounded pipe **Art. 304P - 305P - 307P - 310P - 311P - 312P**, offer as one of the main characteristics the use either as an external or internal drain and especially for horizontal drains through thick outer walls. The ITALPROFILI® angled roof drains are used in conjunction with bends or fittings having seal rings and thus the joint can be within the wall and the down pipe can be placed at a minimum distance from the wall. Installation should be carried out at 3° slope.

■ **INSTALLATION METHOD PAG. 59 and 60**

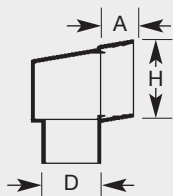
ART.	45.10	39.2P	304P	305P	307P	310P	311P	312P
A	120	100	120	120	120	120	120	120
B	140	180	170	170	170	170	170	170
C	-	39.2	500	500	500	500	500	500
H	65	100	63	75	80	100	110	115
L1	97	100	-	-	-	-	-	-
L	500	500	500	500	500	500	500	500



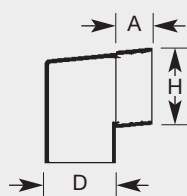
ART.	46	47	40	41	42	43	315	320
A	50	50	50	50	50	50	65	65
D	80	100	Ø 80	Ø 100	100x100	Ø 100	Ø 100	Ø 110
H	68x100	68x100	100x100	100x100	100x100	100x100	Ø 110	Ø 110



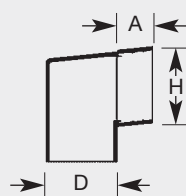
Art. 46



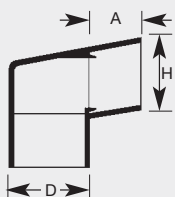
Art. 40



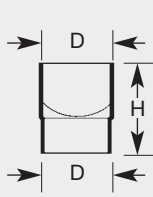
Art. 41



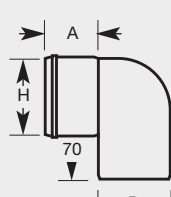
Art. 42



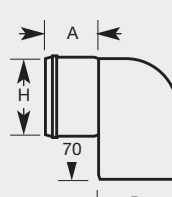
Art. 47



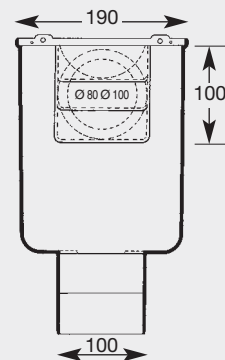
Art. 43



Art. 315



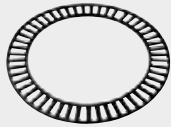
Art. 320



TPO AIR VENTS



Art. 50.3 TPO



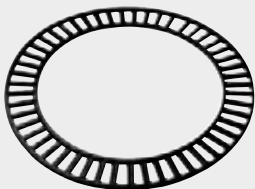
Art. 48.3



Art. 48.8



Art. 49.5 TPO



Art. 49.7



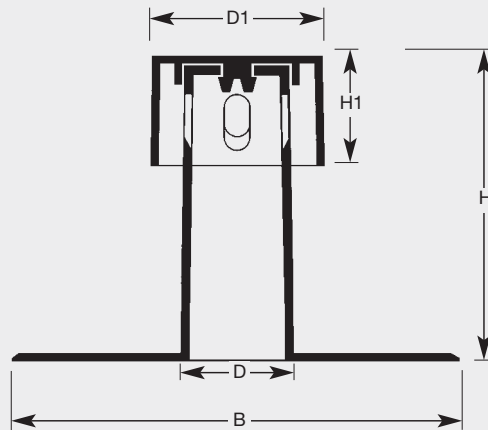
Art. 49.8

TPO AIR VENTS

ITALPROFILI® AIR VENT Art. 50.3 here represented is suitable for waterproofing membranes such as TPO.

■ **INSTALLATION METHOD PAG. 61**

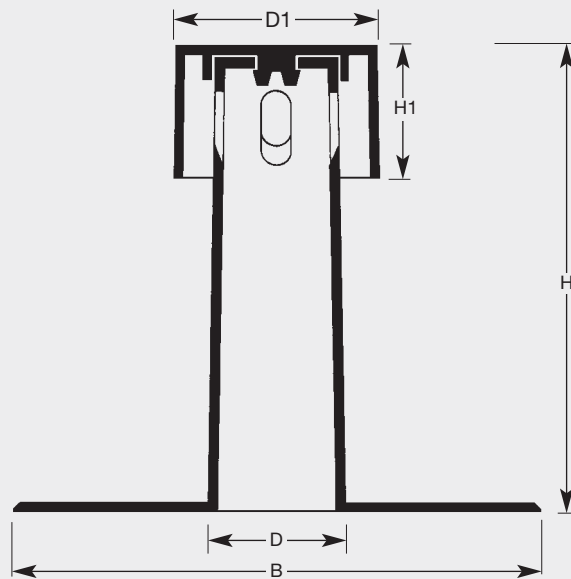
ART.	50.3
B	300x300
D	75
H	200
H1	80
D1	110



ITALPROFILI® AIR VENT Art. 49.5 here represented is suitable for use to aerate different rooms, application with pipes coming from beneath Ø mm. 100-110, compatible with synthetic membranes such as TPO.

■ **INSTALLATION METHOD PAG. 61**

ART.	49.5
B	Ø360
D	110
H	325
H1	95
D1	145



VAPOR-PROOF AERATOR AND TPO PIPE FITTING

ACCESSORIES SUITABLE
FOR TPO MEMBRANES



Art. 54
Art. 56
Grey



Art. 59.2 TPO



Art. 113.3 TPO



Art. 139.2 TPO



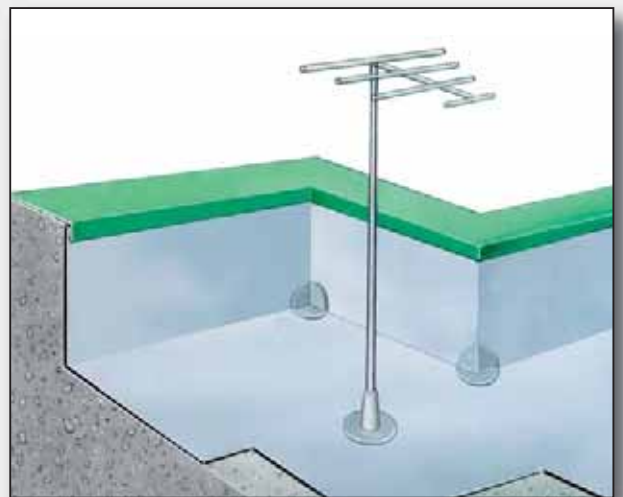
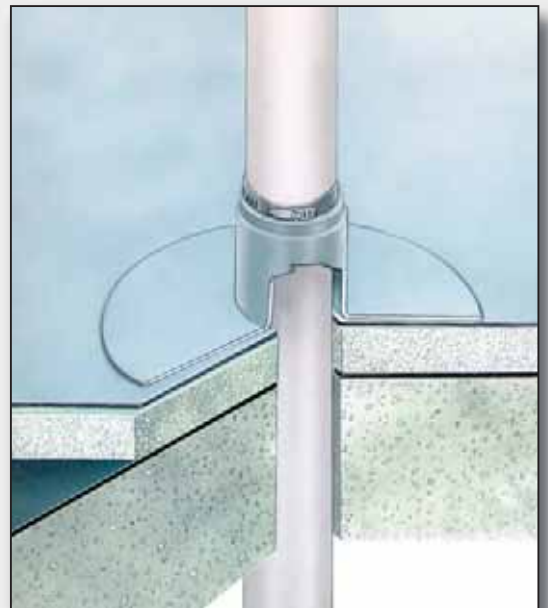
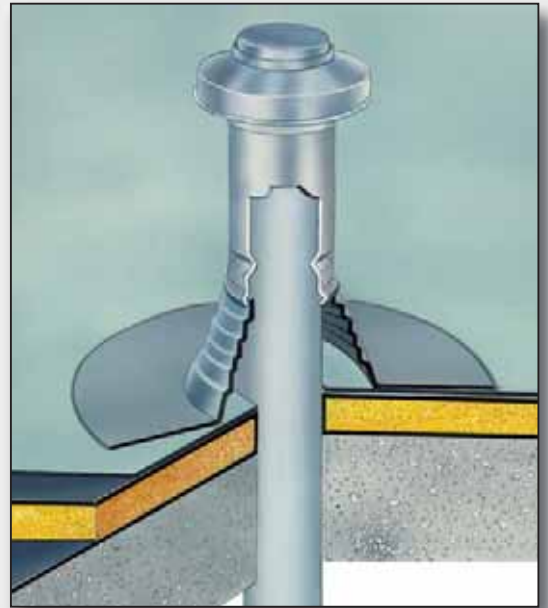
Art. 114.3 TPO



Art. 115.2 TPO



Art. 116.2 TPO

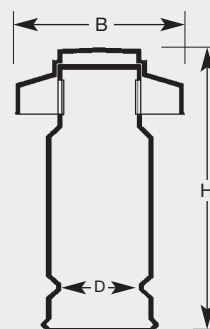


VAPOR-PROOF AERATOR AND TPO PIPE FITTING

The **VAPOR-PROOF AERATOR** is suited to ventilate bathrooms, kitchens, workrooms and all the rooms where steam come from. It is so called as the vent is built in order to avoid steam build-up and its consequent dripping down along the leak pipes, when these are stressed by released steam. Available in colours: grey and brown.

■ **INSTALLATION METHOD PAG. 62**

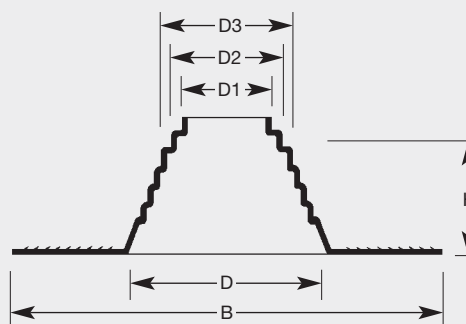
ART.	54	56
D	100	125
D1	120	150
B	180	220
H	300	350



Art. 59.2 flexible collars are suitable for connecting downpipes to the waterproofing system as TPO.

■ **INSTALLATION METHOD PAG. 62**

ART.	59.2
B	Ø410
D	190
D1	80
D2	100
D3	125

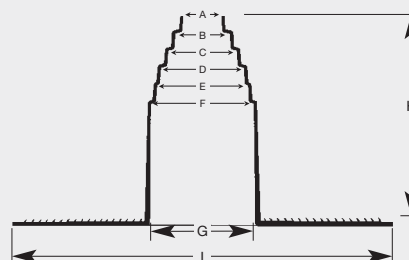


Art. 113.1 - 114.3 Pipe fittings for connecting downpipes suitable for application with synthetic membranes such as TPO.

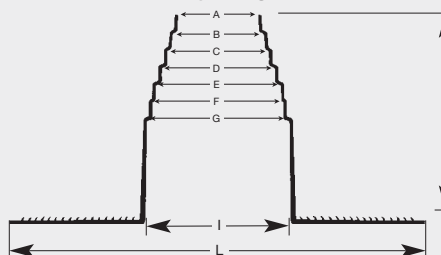
■ **INSTALLATION METHOD PAG. 62**

ART.	113.3	114.3
A	34	75
B	50	80
C	60	90
D	75	100
E	80	110
F	90	115
G	93	125
I	340	127
L	365	
H	180	180

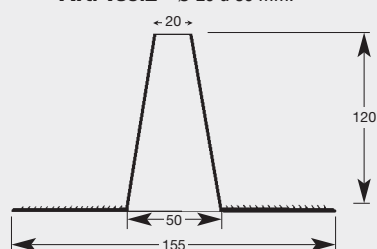
Art. 113.3



Art. 114.3



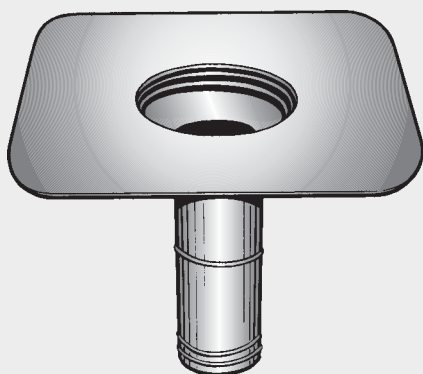
Art. 139.2 - Ø 20 a 50 mm.



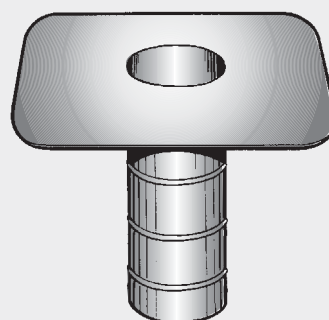
ART.	139.2
D1	20
B	155
H	120
D	50

TPO ANTIBACKUP ROOF DRAIN - NEW ANTIBACKUP PREVENTER IN TPO

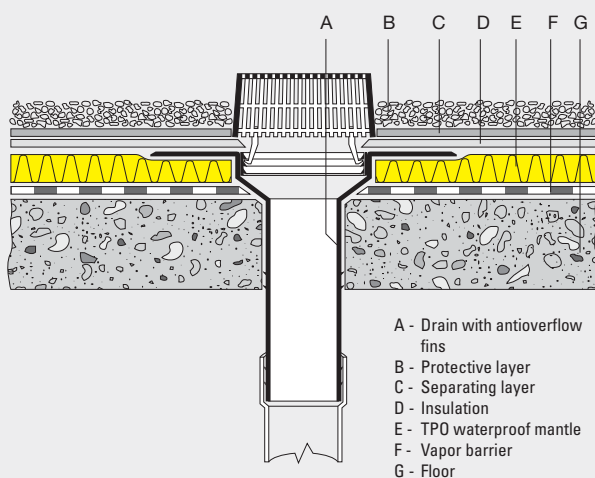
laying technology



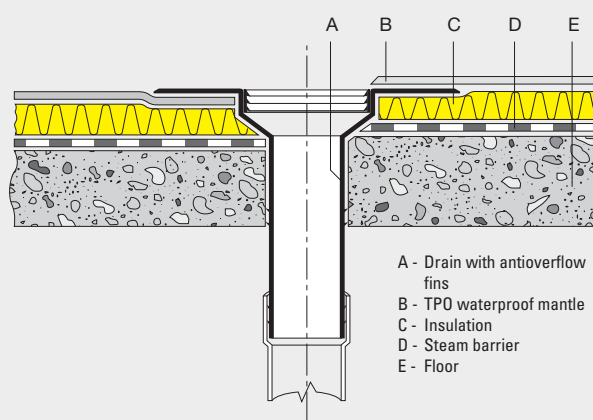
H mm. 330



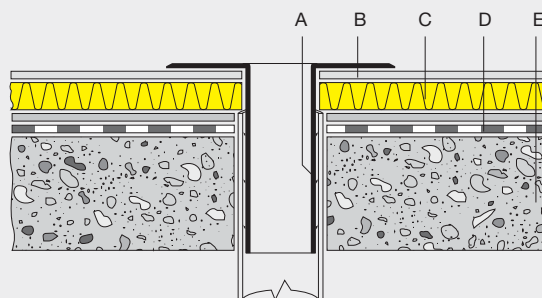
H mm. 250



- A - Drain with antioverflow fins
- B - Protective layer
- C - Separating layer
- D - Insulation
- E - TPO waterproof mantle
- F - Vapor barrier
- G - Floor



- A - Drain with antioverflow fins
- B - TPO waterproof mantle
- C - Insulation
- D - Steam barrier
- E - Floor



- A - Drain with antioverflow fins
- B - TPO waterproof mantle
- C - Insulation
- D - Steam barrier
- E - Floor

INSTALLATION MANUAL OF THE NEW DRAIN - H 330 mm.

Complete spreading of the TPO membrane, drill the membrane by the rain drain, insert the drain into the pipe, weld the flange on the membrane with hot air. "Alternatively adhesives suitable for TPO may be used", insert the ring impregnated with adhesive, connect the leaf grate and/or gravel grate to it.

N.B.: If necessary, the flange can be fixed on top of the membrane.

INSTALLATION MANUAL OF ROOF DRAIN - H 250 mm.

Complete spreading of the TPO membrane, lay the membrane by the rain drain, insert the drain into the pipe, weld on the membrane with hot air. "Alternatively, use adhesives suitable for TPO", insert the leaf grate and/or gravel grate in their housing.

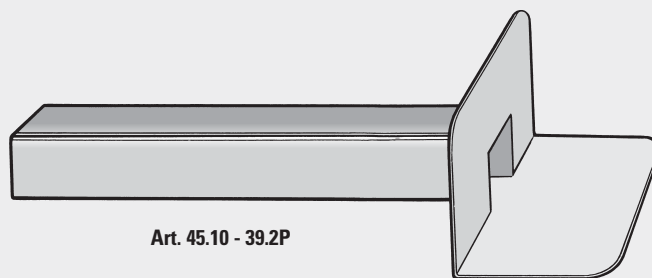
N.B.: If necessary, the flange can be fixed on top of the membrane.

DESCRIPTION OF SPECIFICATIONS TPO ANTIBACKUP ROOF DRAIN - H mm. 330

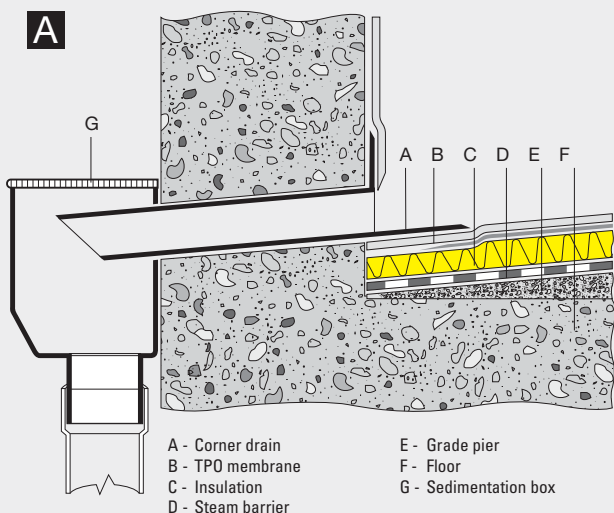
Supply and laying of ITALPROFILI® drain of the New type of TPO with a smooth flange 400x400 mm., a flat funnel 30 mm. high, diameter 170 mm., an anti-backup shaft 330 mm. high, suitable for pipes with a Ø of complete with leaf grate and/or gravel grate gap 6 or 14 mm.).

DESCRIPTION OF SPECIFICATIONS TPO ANTIBACKUP ROOF DRAIN - H mm. 250

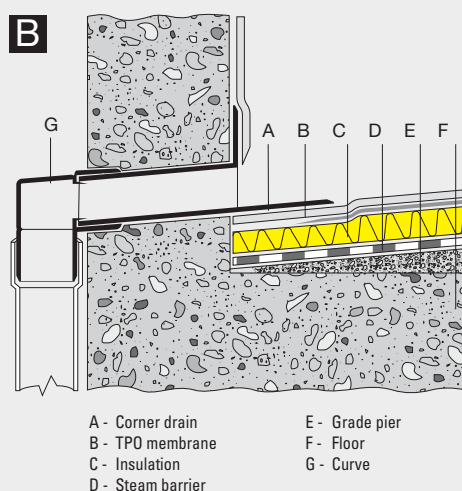
Supply and laying of Universal TPO drain with an anti-backup shaft 250 mm. high suitable for pipes with a Ø of with a smooth flange provided with the connection for Leaf grate / Gravel grate .



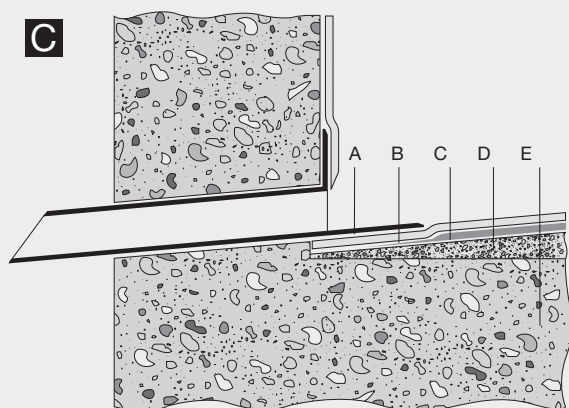
Art. 45.10 - 39.2P



A - Corner drain
B - TPO membrane
C - Insulation
D - Steam barrier
E - Grade pier
F - Floor
G - Sedimentation box



A - Corner drain
B - TPO membrane
C - Insulation
D - Steam barrier
E - Grade pier
F - Floor
G - Curve



A - Corner drain
B - TPO membrane
C - Separating layer
D - Grade pier
E - Floor

INSTALLATION MANUAL

Art. 45.10 e 39.2P IN TPO

- 1 - Spreading of the TPO membrane; cut the membrane by the hole.
- 2 - Try the drain in the hole and, at the same time, mark the point to cut in relation to the thickness of the wall. The cutting of the pipe shall be made in such a way that the lower part is 5 mm. longer than the higher one, in case this is used with curves art. 46 and 47. In case the drain is placed in the box art. 118, it shall be cut at 45° (see drawing A) and laid with a grade of 3°.
- 3 - Weld the drain flange on the membrane (see drawing B), with hot air or with adhesives suitable for plasticized TPO.
- 4 - Before inserting the curve, pass an adhesive cord suitable for plasticized TPO after having inserted the curves, make sure that the drain pipe is inserted in the four tangs that are inside the curves.
- 5 - Insert the Leaf grate/Gravel grate - art. 44.1 (for art. 45.10) and/or art. 44 (for art. 39.2A).

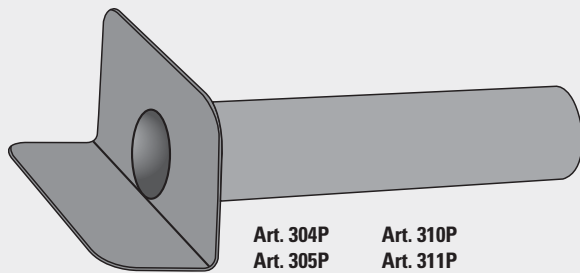
N.B.: point 1 can be inverted with point 2.

DESCRIPTION OF SPECIFICATIONS - Art. 45.10

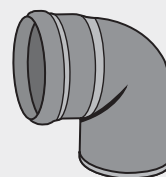
Supply and laying of TPO drain of the ITALPROFILI® type, with an angle of 90°, with the following dimensions: shaft 450 mm. long, 65 mm. high, 100 mm. wide the flange shall be smooth and flexible, provided with curves for the connection to downspouts, with a Ø of 80 or 100 or/and a funnel box.

DESCRIPTION OF SPECIFICATIONS - Art. 39.2P

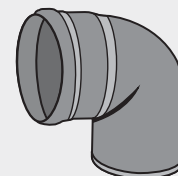
Supply and laying of TPO drain of the ITALPROFILI® type, with an angle of 90°, with the following dimensions: shaft 500 mm. long, 100 mm. high, 100 mm. wide the flange shall be smooth and flexible, provided with curves for the connection to downspouts, with a Ø of 80 or 100 or/and a funnel box to downspouts, complete with Leaf grate/Gravel grate.



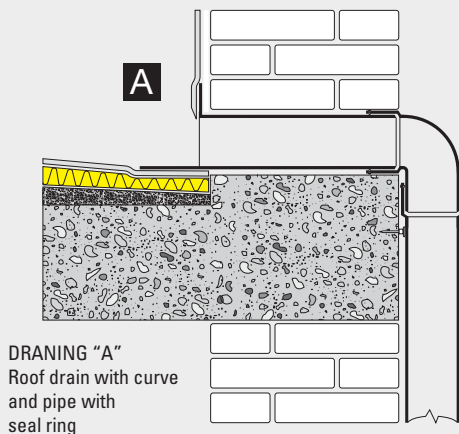
Art. 304P Art. 310P
 Art. 305P Art. 311P
 Art. 307P Art. 312P



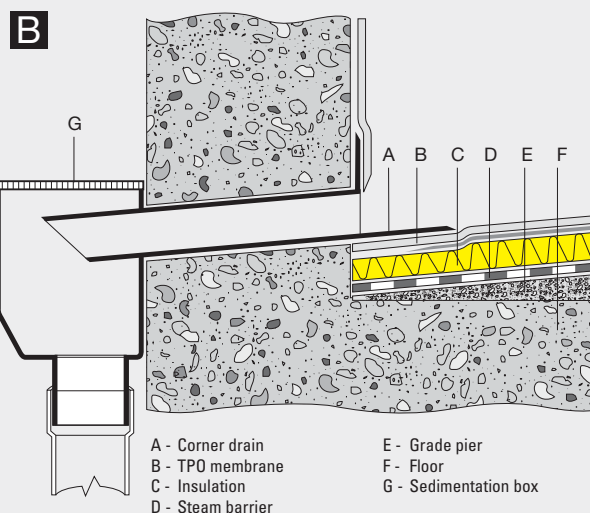
Art. 320



Art. 315

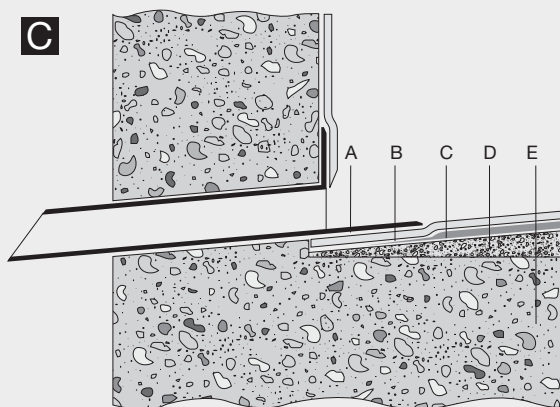


DRANING "A"
 Roof drain with curve
 and pipe with
 seal ring



A - Corner drain
 B - TPO membrane
 C - Insulation
 D - Steam barrier

E - Grade pier
 F - Floor
 G - Sedimentation box



A - Corner drain
 B - TPO membrane
 C - Separating layer
 D - Grade pier
 E - Floor

INSTALLATION MANUAL

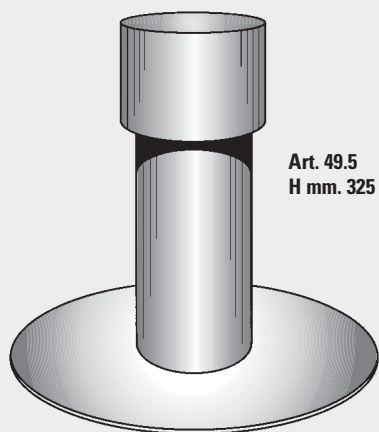
Art. 304P - 305P - 307P - 310P - 311P - 312P - 315 - 320

- 1 - Spreading of the TPO membrane; cut the membrane by the hole.
- 2 - Try the drain in the hole and, at the same time, mark the point to cut in relation to the thickness of the wall. The cutting of the pipe shall be made in such a way that the lower part is 5 mm. longer than the higher one, in case this is used with curves with a Ø..... In case the drain is placed in the box art. 118, it shall be cut at 45° (see drawing B) and laid with a grade of 3°.
- 3 - Weld the drain flange on the membrane (see drawing B), with hot air or with adhesives suitable for plasticized TPO.
- 4 - Before inserting the curve, pass an adhesive cord suitable for plasticized TPO, if possible use curves provided with seal piece.
- 5 - Insert the Leaf grate/Gravel grate - art. 26.

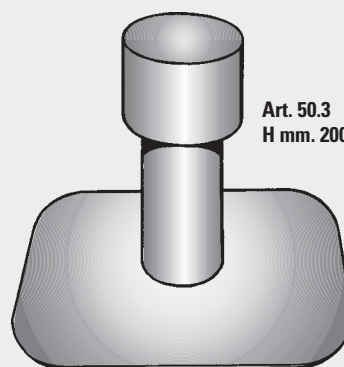
N.B.: point 1 can be inverted with point 2.

DESCRIPTION OF SPECIFICATIONS

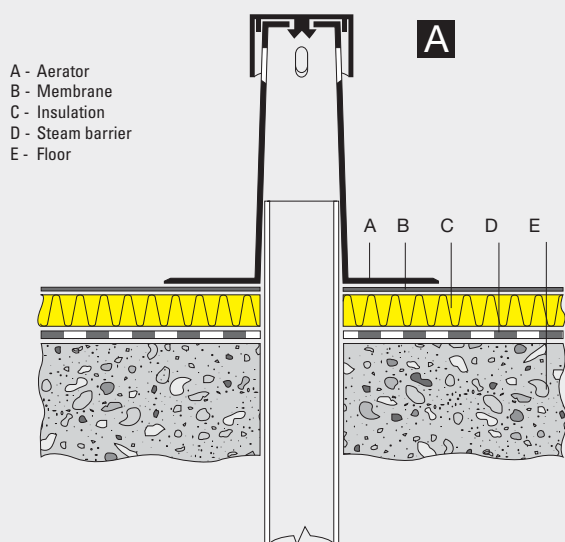
Supply and laying of stabilized TPO drain of the ITALPROFILI® type, with an angle of 90°, with the following dimensions: shaft 500 mm. long, Ø....., the flange shall be smooth and flexible, provided with curves for the connection to downspouts, with a Øor/and a funnel box to downspouts, complete with Leaf grate/Gravel grate.



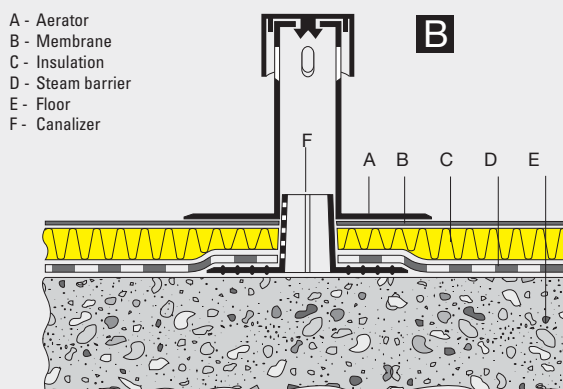
Art. 49.5
H mm. 325 ø 110



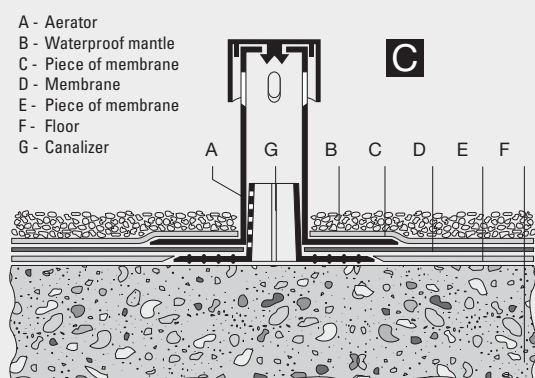
Art. 50.3
H mm. 200 ø 75



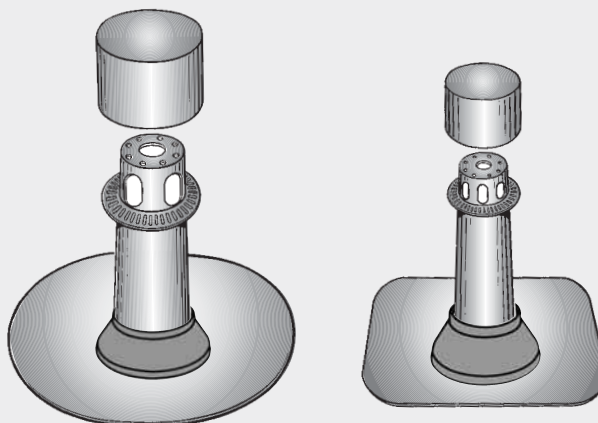
A - Aerator
B - Membrane
C - Insulation
D - Steam barrier
E - Floor



A - Aerator
B - Membrane
C - Insulation
D - Steam barrier
E - Floor
F - Canalizer



A - Aerator
B - Waterproof mantle
C - Piece of membrane
D - Membrane
E - Piece of membrane
F - Floor
G - Canalizer



INSTALLATION MANUAL

Art. 49.5 - 50.3

Supposing that the steam barrier has already been placed on the slab, drill it where the duct for air vent is placed on the highest points of the covering, by simply laying it.

The insulation materials are then installed around the central body as per drawing A for a vent pipe or B for an air vent.

The waterproofing membrane is then cut and installed around the vertical pipe. The air vent itself is then welded using a hot air gun on top of the membrane itself.

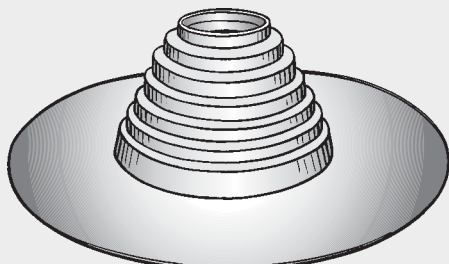
DESCRIPTION OF SPECIFICATIONS Art. 49.5

Supply and install ITALPROFILI® air vents for the ventilation of kitchen and bathroom areas to be fitted to existing outlet pipes and provided with anti insects ring and collar.

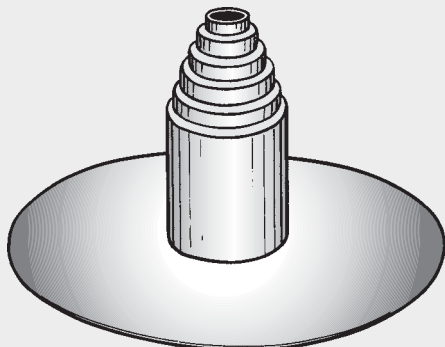
Consisting of a cylindrical aerator suitable for use with Ø 100-100 mm. pipes, having a height of 325 mm. complete with a push-fit cap and insect barrier with flange for welding to TPO waterproofing by hot air welding on top of the membrane.

DESCRIPTION OF SPECIFICATIONS Art. 50.3

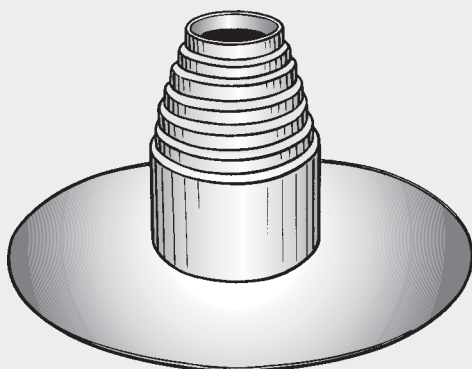
Supply and install ITALPROFILI® air vents, provided with anti insects ring and collar, between vapour barrier and TPO waterproofing membrane, duct for air vent is placed on the highest points of the covering. Consisting of a cylindrical body Ø 75 mm, having a height of 200 mm. complete with a push-fit cap and insect barrier with smooth flange for welding to TPO waterproofing by hot air welding on top of the membrane.



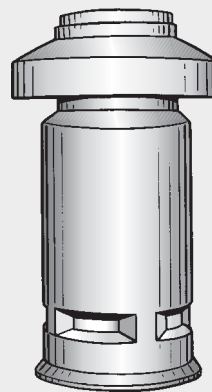
Art. 59.2



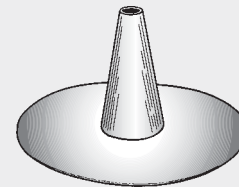
Art. 113.3 from Ø 50 to Ø 90



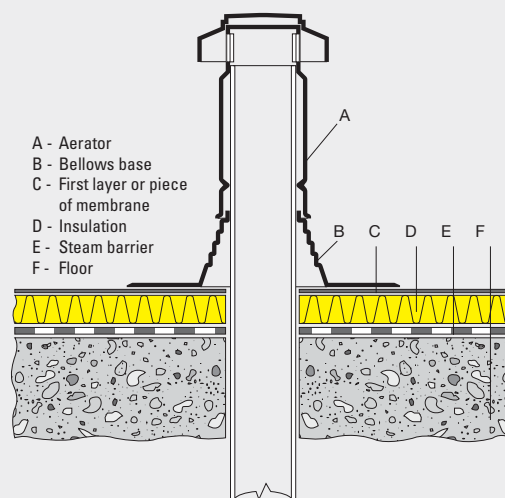
Art. 114.3 from Ø 75 to Ø 125



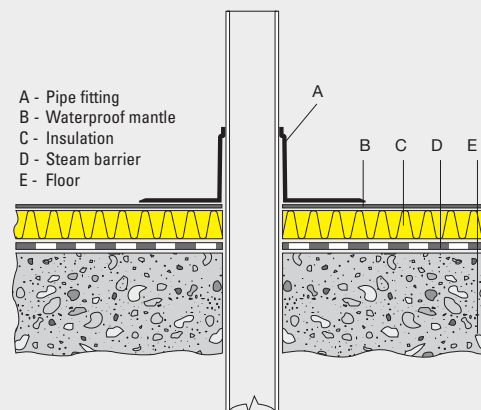
Art. 54 - Art. 55
Art. 56 - Art. 57



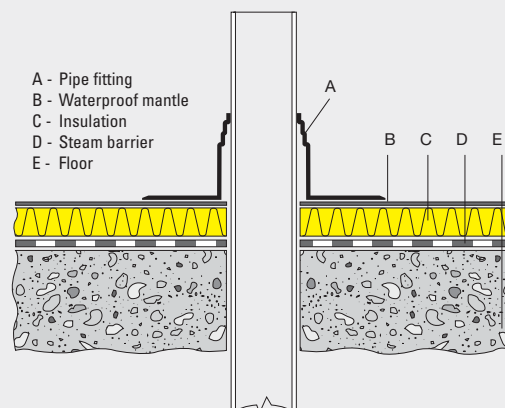
Art. 139.2



- A - Aerator
- B - Bellows base
- C - First layer or piece of membrane
- D - Insulation
- E - Steam barrier
- F - Floor



- A - Pipe fitting
- B - Waterproof mantle
- C - Insulation
- D - Steam barrier
- E - Floor



- A - Pipe fitting
- B - Waterproof mantle
- C - Insulation
- D - Steam barrier
- E - Floor

INSTALLATION MANUAL

Art. 113.3 - 114.3

Install the waterproofing membrane sheet. Prepare the pipe adapter by cutting the step at the appropriate diameter. Place the adapter over the pipe and weld the flange to the waterproofing membrane using a hot air gun.

DESCRIPTION OF SPECIFICATIONS

Supply and install ITALPROFILI® pipe fitting for TPO suitable for fitting to pipe diameters 34-60-75-80-90-100-110-115-125, having a round flexible flange. Hose clips must be in stainless steel.

FLEXIBLE COLLAR Art. 59.2

Install the waterproofing membrane sheet. Prepare the bellows adapter by cutting the step at the appropriate diameter to suit the pipe. Place over the pipe and weld the flange to the waterproofing membrane. Cut the vent pipe at 31 cm. from the roof deck level and fit suitable diameter vapour-proof aerator.

DESCRIPTION OF SPECIFICATIONS Art. 54 - 55 - 56 - 57

Supply and install ITALPROFILI® vapour-proof aerator for bathrooms, kitchens etc. for pipe Ø 100 mm. h 305 mm.- Ø 125 mm. h 350 mm. complete with base and fitting for dealing to the waterproofing membrane.

ITALPROFILI®

**MECHANICAL FASTENING
ROOF DRAINS SUITABLE WITH
ALL KIND OF MEMBRANES**

ROOF DRAINS SUITABLE FOR
ALL KIND OF MEMBRANES



"SURE FIX" IN IGOM EE



"SURE FIX" is one of the best means of connecting a roof system to an outlet drain and is particularly indicated for use on flat roof applications for either commercial or residential buildings.

The fastening and the seal between the roof system is achieved mechanically and thanks to its versatility the drain unit can be used with all types of waterproofing materials. The unit and its accessories have been studied in the minutest detail thus giving a product which far surpasses the characteristics of other normal products currently available.

DESCRIPTION

The unit consists of, a flexible circular flange with 6 stainless steel lugs. A flat funnel 30 mm thick and 170 mm in diameter to ensure that even storm water will flow quickly into the unit. Standard length is 330 mm. Pipe diameter available are 75-80-100-110-125-150 mm.

The unit is supplied with a 5076 aluminium ring, 3.5 mm thick and a diameter of 220 mm which has 3 locating lugs and 6 holes for the fixing of either a gravel ring or a leaf guard.

Gravel ring and/or leaf guard is 80 mm high and has a diameter at its base of 180 mm and 160 mm at its top and clips into position on the locating lugs on the ring. The unit is made from IGOM EE synthetic rubber which has excellent physical and chemical characteristics and can fulfil all the elastic characteristics required of such an article.

The specially formulated IGOM EE has extremely high resistance to breakdown by sunlight, ozone and other chemical or atmospheric agents. The unit can be used in a wide range of temperatures giving high flexibility in the low temperature range as well as stability in time thanks to its excellent mechanical characteristics. Thanks to their high quality the materials used will ensure perfect performance through the years.

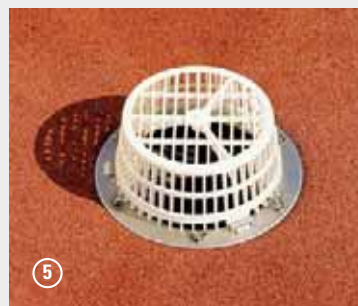
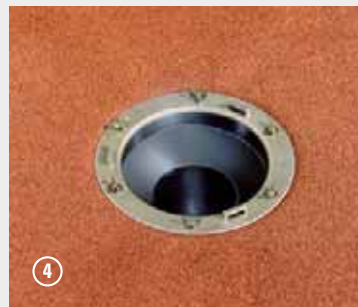
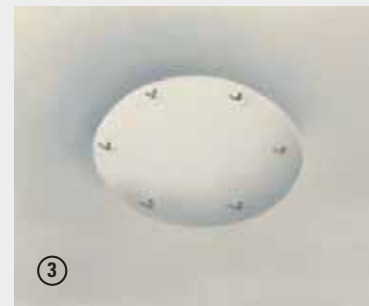
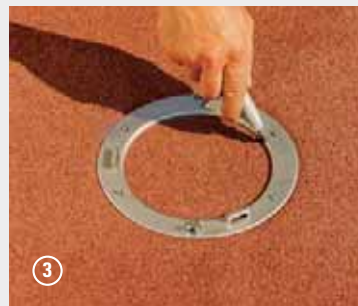
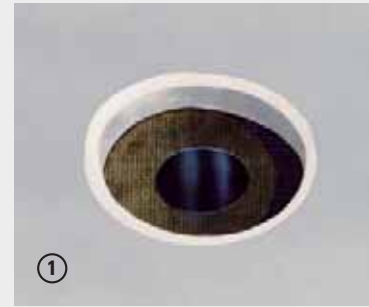
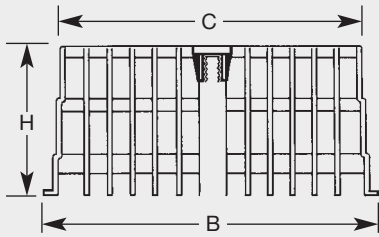
The aluminium ring is corrosion resistant and the 6 butterfly nuts which are also in stainless steel ensure a perfect seal with all the waterproofing membrane and in such a case there is no need to seal the flange to the membrane.

The drain unit can be dismantled and reused.

INSTALLATION METHOD

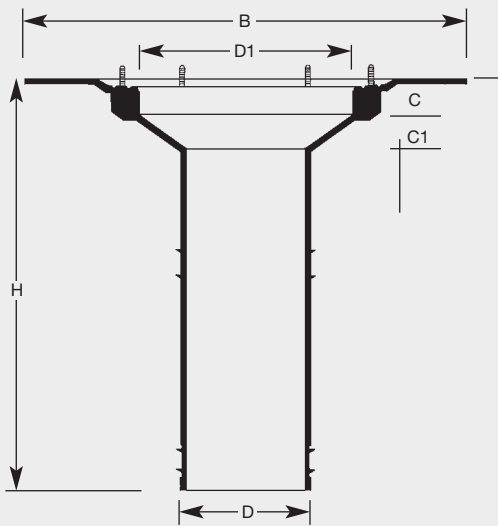
BITUMINOUS MEMBRANES

SYNTHETIC MEMBRANES



LEAF-GRATE and/or GRAVEL-GRATE

ART.	24
B	180
H	80
C	160



ART.	129	130	132	133	134	136
DENOM	75	80	100	110	125	150
B	340	340	340	340	340	340
H	330	330	330	330	330	330
D	75	80	100	110	125	150
D1	170	170	170	170	170	170
C	30	30	30	30	30	30
C1	25	25	25	25	25	25

INSTALLATION METHOD

- 1 - Place the unit over the drain pipe.
- 2 - Install the waterproofing membranes.
- 3 - Press the membrane over the lugs so that their position is evident. Carefully cut the membrane over the lugs so that they protrude through the membrane.
- 4 - Place the ring over the lugs and hold in position with 2 bolts and cut the membrane from inside the ring.
- 5 - Position and fasten the other bolts and washers, position the leaf guard/gravel ring.

"TOP" DRAIN



Art.
 Ø 75 - 200
 Ø 110 - 202
 Ø 125 - 204
 Ø 160 - 206

"TOP" DRAIN is one of the best means of connecting to an outlet drain. Its dimensions conform to UNI EN 1451-1, and it fits to bell and spigot jointed pipes without using adhesive.

"TOP" drain is particularly suited for use in low pitch roofs, under roof gardens, inverted roof systems and tiled roof areas. Fixing and fastening to the waterproofing material is by a threaded ring which allows applicator to use it with all types of waterproofing membranes.

■ **INSTALLATION METHOD PAG. 69**



Art. 230
 Ø 110 - 100



Art. 216



Art.
 Ø 75 - 200.1
 Ø 110 - 202.1
 Ø 125 - 204.1
 Ø 160 - 206.1



Art.
 Ø 75 - 222
 Ø 110 - 224
 Ø 125 - 226
 Ø 160 - 228



Art. 218



Art.
 Ø 75 - 200.2
 Ø 110 - 202.2
 Ø 125 - 204.2
 Ø 160 - 206.2



Art. 220*



Art. 210.2*

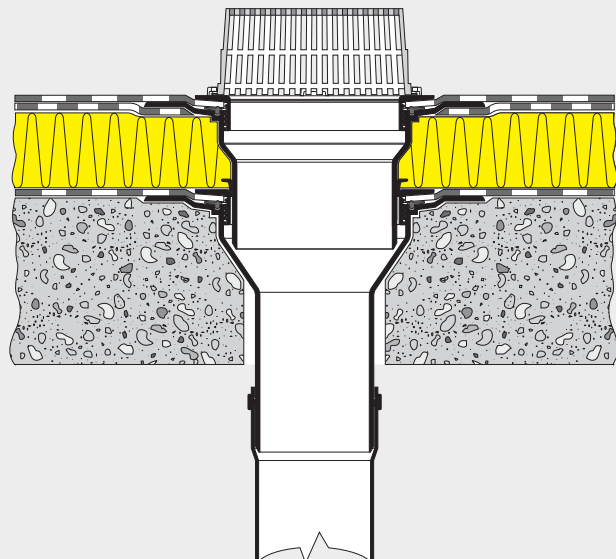
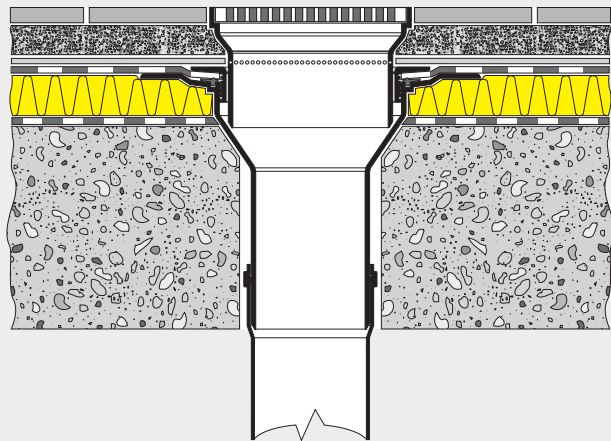
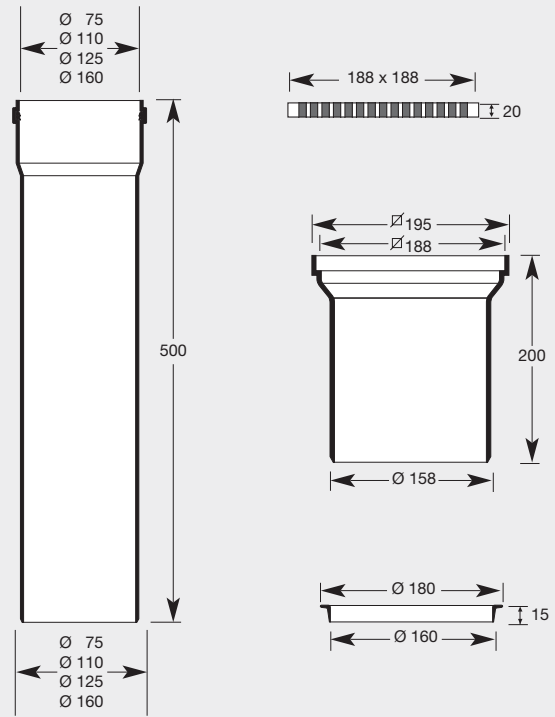
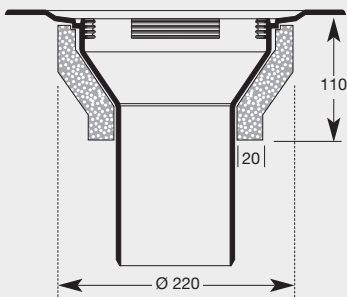
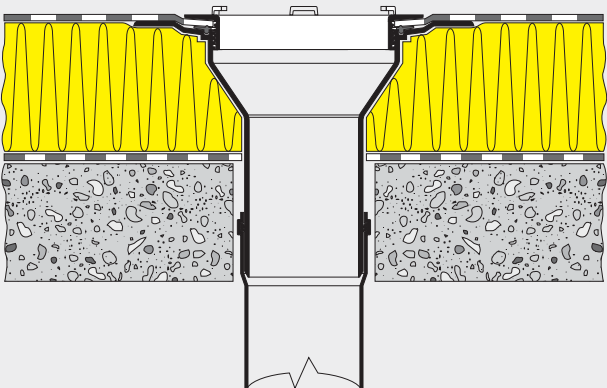
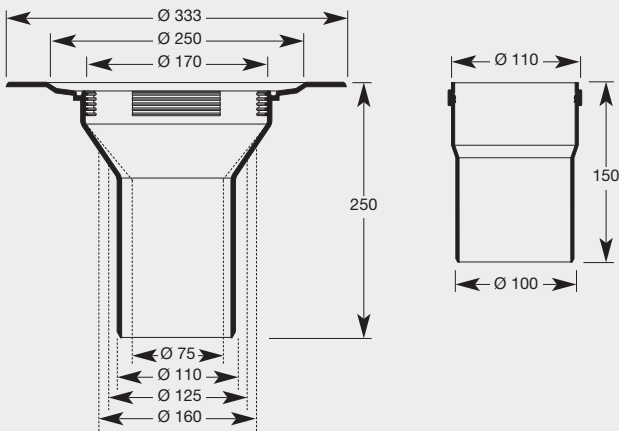
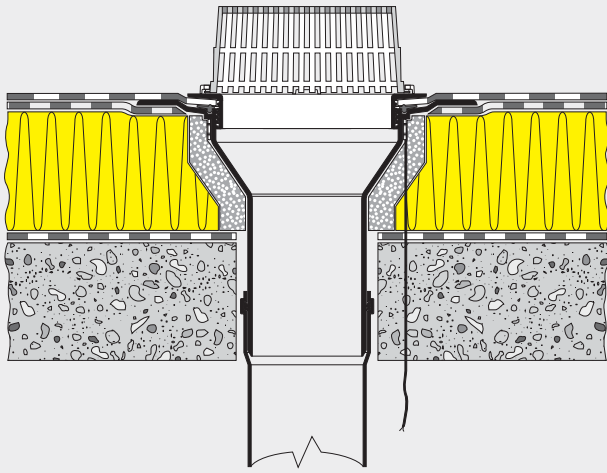
Art. 210.3*



*Included with the unit

*Included with the unit

"TOP" DRAIN



All dimensions are in millimeter and have a tolerance of ± 2

ROOF DRAINS SUITABLE FOR ALL KIND OF MEMBRANES

TECNICAL CHARACTERISTICS AND ACCESSORIES

- Circular flange Ø 333 mm. with fastening holes;
- Seal ring;
- 165 mm countersuck top and stem Ø 75-110-125-160 mm for a total height of 250 mm.;
- Protective cover with a central pin as a handy cutting guide;
- Metal handy cutting guide with slit for blade;
- Threaded ring with 3 location holes for leaf or gravel guard positioning and tightening lugs.

OPTIONALS

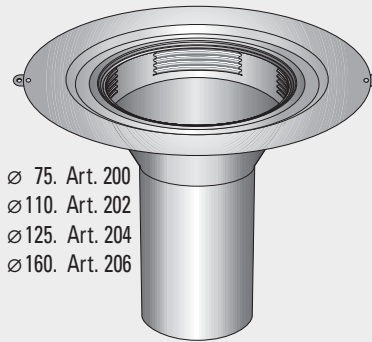
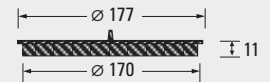
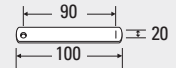
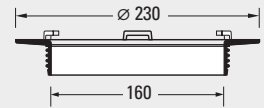
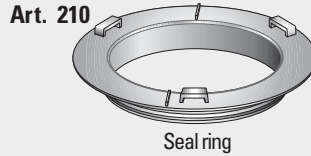
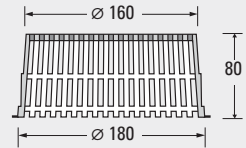
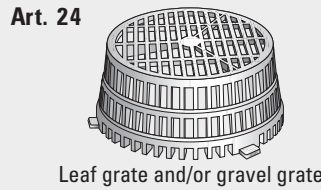
- Adaptor piece for fitting foot traffic resistant grille;
- 188x188 foot traffic resistant grille;
- L seal piece for positioning pipes or outlets;
- 220 V 14 W heater element;
- High density polyurethane insulation;
- Pipe bell joint and seal Ø 75-110-125-160 mm. 500 high.

"TOP" DRAIN ADVANTAGES

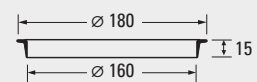
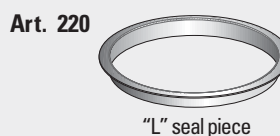
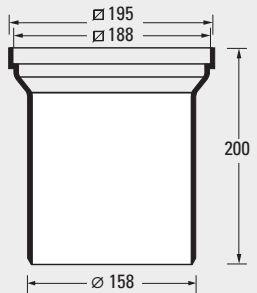
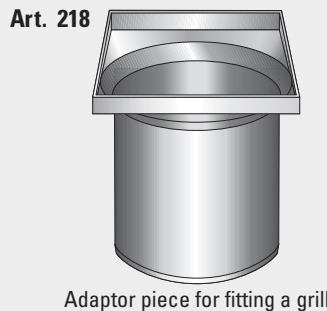
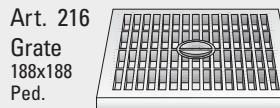
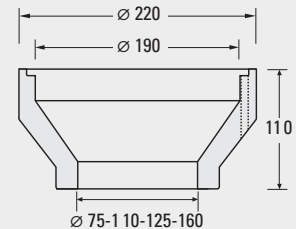
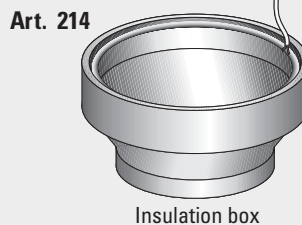
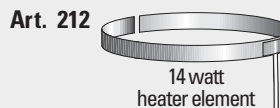
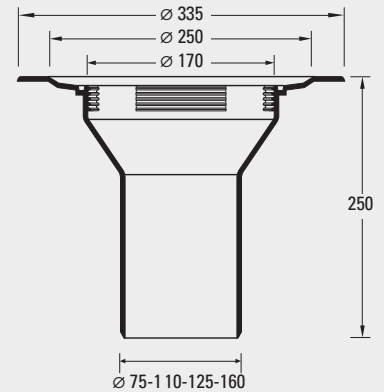
- 1 - "TOP" drains can be used with all types of waterproofing membranes;
- 2 - Accessories supplied with "TOP" drain allow it to be used in virtually all applications;
- 3 - Quick and easy installation often halving installation times;
- 4 - Can be used with prefabricated membranes;
- 5 - Large countersunk top makes for easy flow or rainwater and the seal between the outlet and the down pipe ensure that it is fully watertight for all of its circumference;
- 6 - Warehousing of only one type of drain.

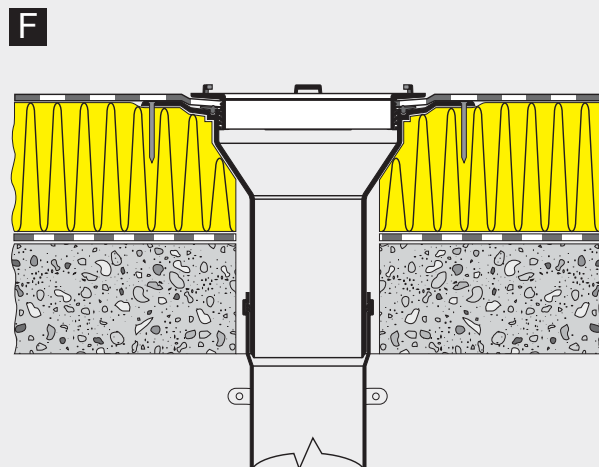
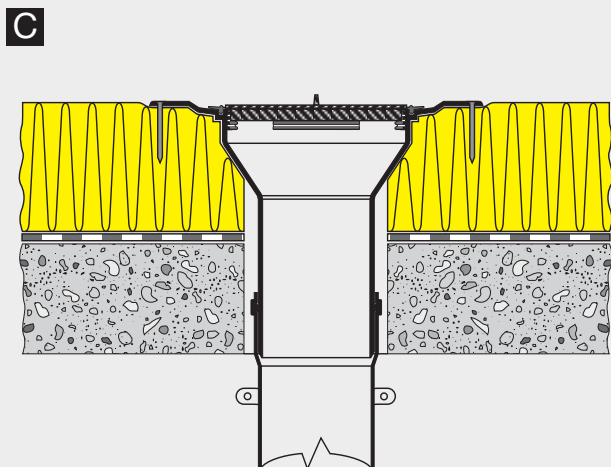
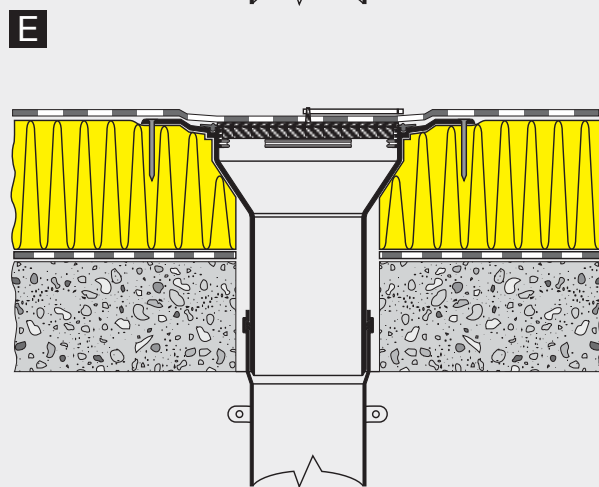
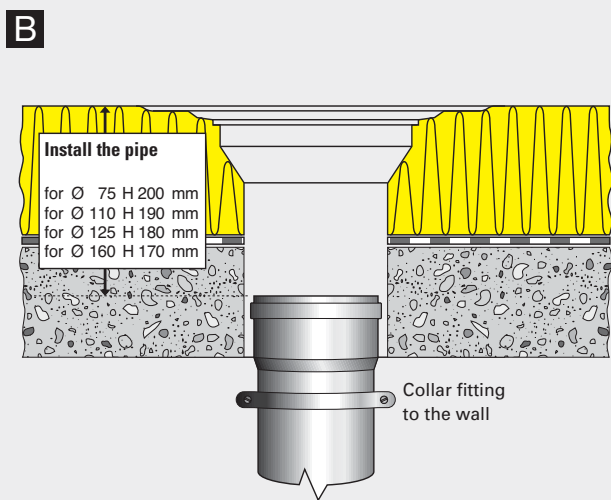
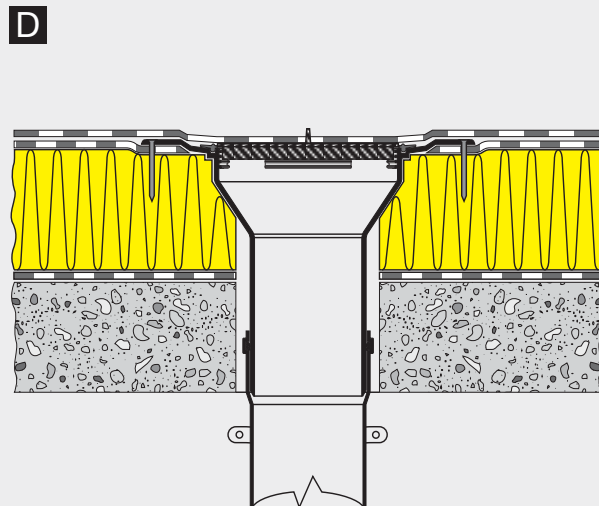
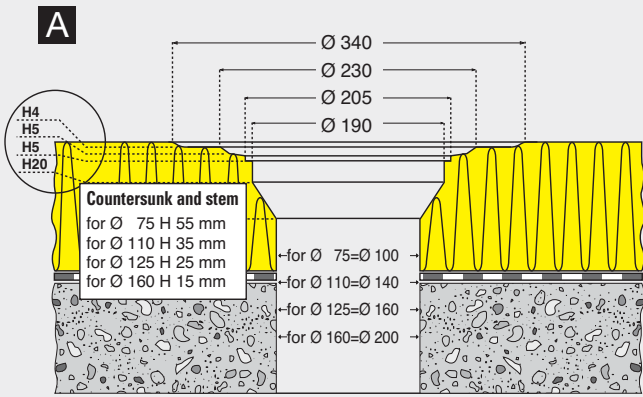
DRAINAGE CAPACITY OF "TOP" DRAIN

- Diam. 75 = 300 lt./min.
- Diam. 110 = 492 lt./min.
- Diam. 125 = 690 lt./min.
- Diam. 160 = 786 lt./min.
- With gravel/grate -20%
- "TOP" drain is re-cycleable



- Ø 75. Art. 200
- Ø 110. Art. 202
- Ø 125. Art. 204
- Ø 160. Art. 206

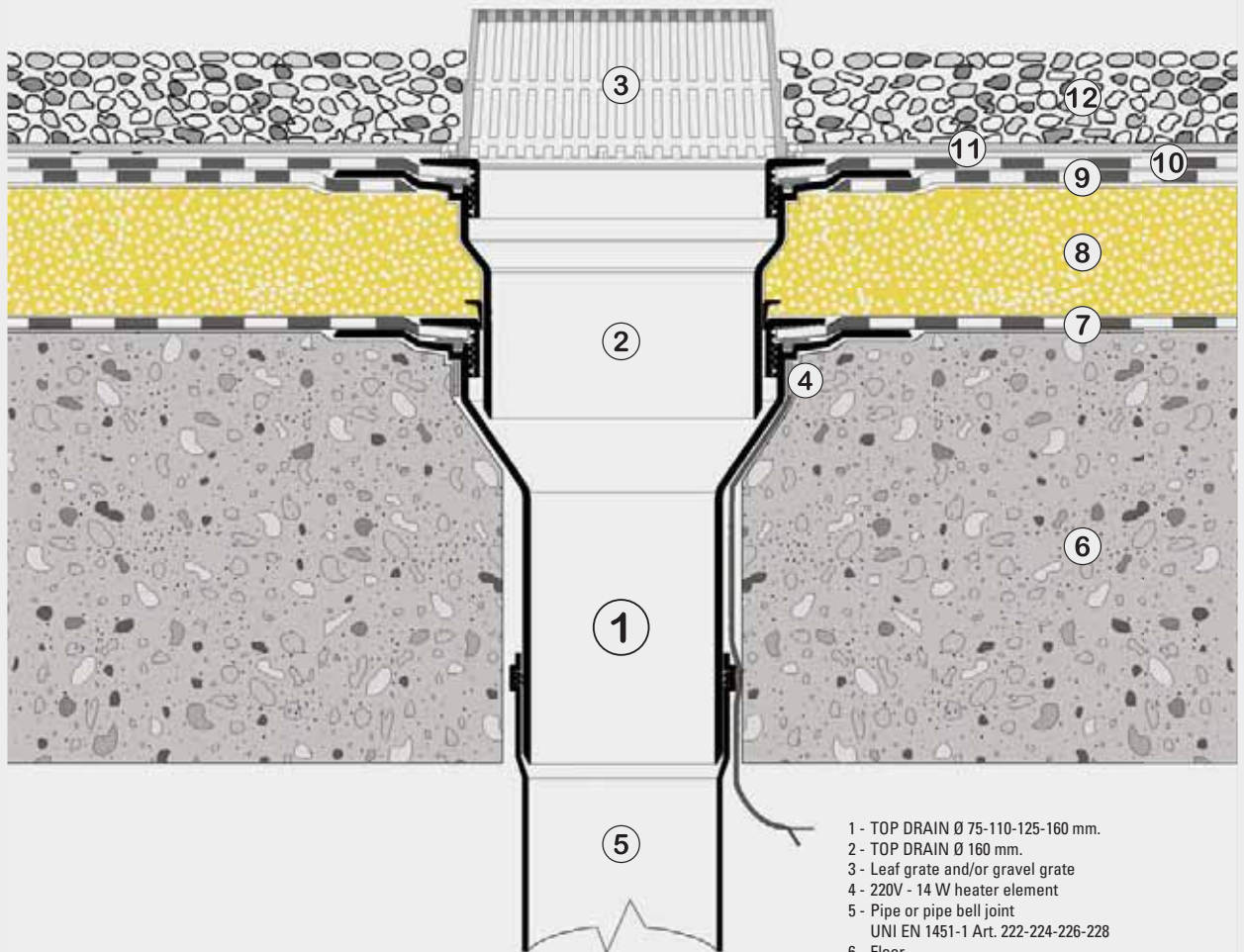




INSTALLATION METHOD

- 1 - An appropriately dimensioned seat of the drain and the down pipe must be prepared through the various layers (fig. A).
- 2 - The down pipe is fitted using the special collars under the bell of the pipe (fig. B)
- 3 - Insert the drain and cover into the bell or the hose and mail into position (fig. C) (check that the seal is correctly positioned in its seat).
- 4 - In the case a multi-layer waterproofing system, the drain unit be installed on top of the first waterproofing layer. The area around the flange must be heated in proximity of the flange without the flame coming into direct contact with the drain unit, the unit is placed in position, ensuring that the flange is properly positioned and sealed (fig. D).
- 5 - Install the waterproofing membrane (in the case of bituminous membranes it should be heated gently and adhered to the cover) avoid forming joints in proximity of the drain unit. After completing installation, press on the central pin so that it protrudes, and using the handy cutting guide and look blade cut the circular piece over the cover itself (fig. E).
- 6 - Remove the cover, and manually screw down the ring using the lungs until it is sufficiently tight. Position the leaf or gravel guard in the locating holes (fig. F).

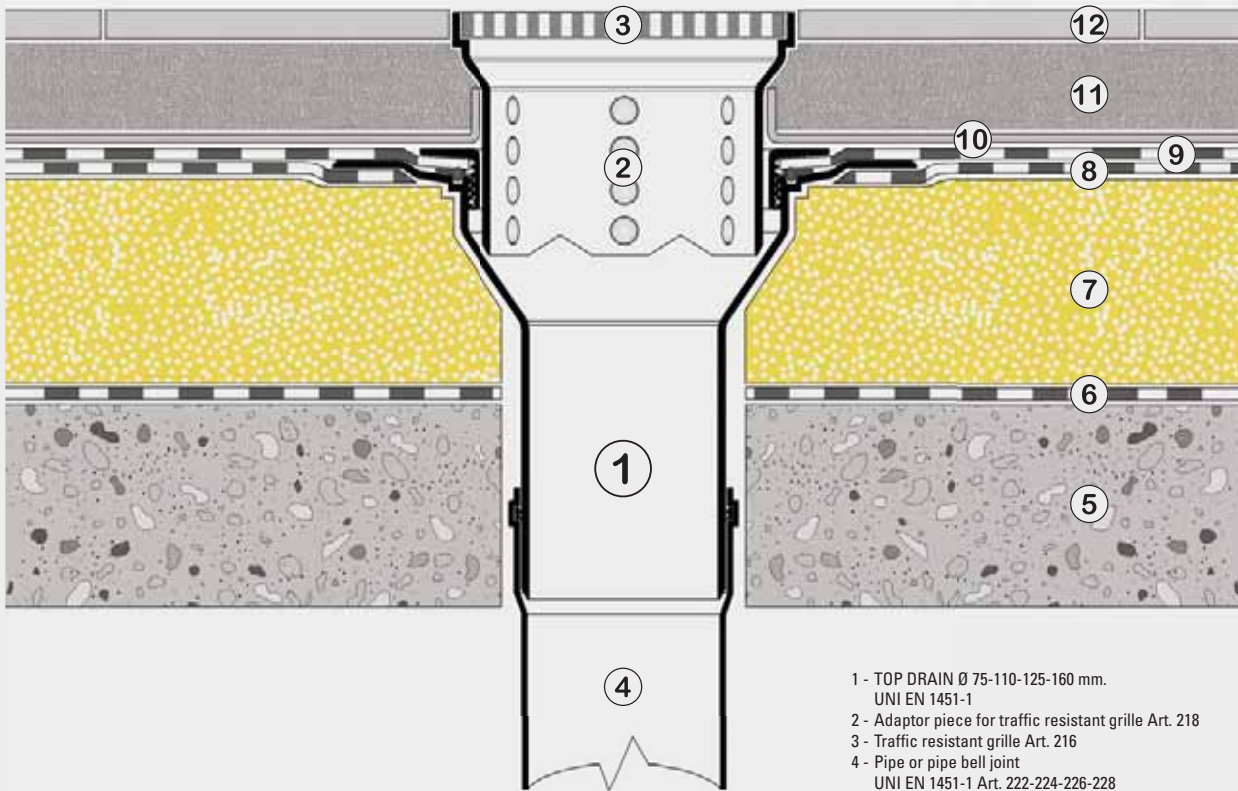
INDUSTRIAL ROOF WITH DOUBLE DRAIN INSTALLATION EXAMPLE 1



- 1 - TOP DRAIN Ø 75-110-125-160 mm.
- 2 - TOP DRAIN Ø 160 mm.
- 3 - Leaf grate and/or gravel grate
- 4 - 220V - 14 W heater element
- 5 - Pipe or pipe bell joint
UNI EN 1451-1 Art. 222-224-226-228
- 6 - Floor
- 7 - Steam barrier
- 8 - Insulation
- 9 - First layer of membrane
- 10 - Second layer of membrane
- 11 - Non woven fabric
- 12 - Washed gravel 5-6 cm.

N.B.: the drawing shows point 8-9 application with two layers of bituminous membranes. The application indicated allows the applicator to use all types of waterproofing membranes.

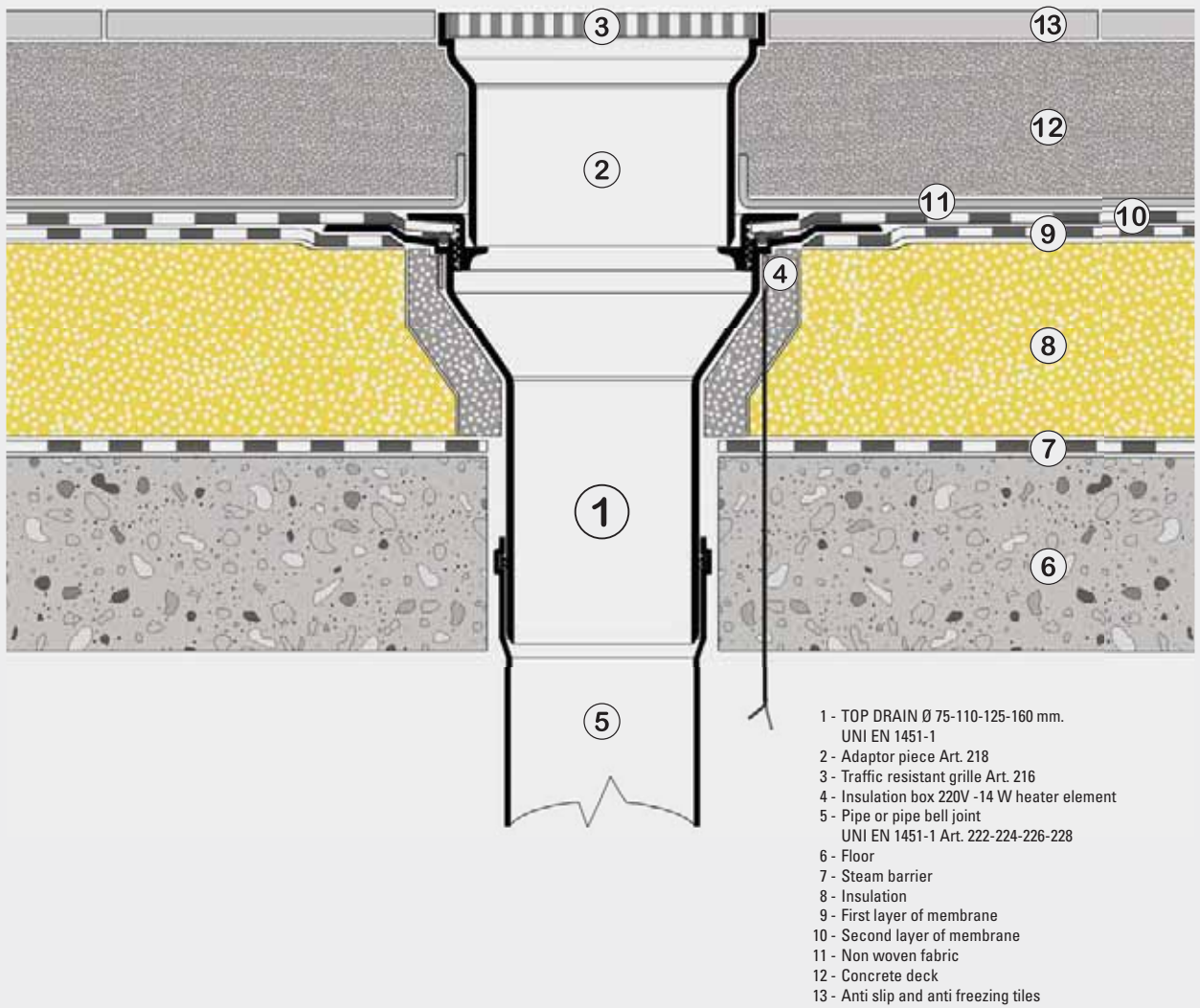
WALKABLE ROOF INSTALLATION EXAMPLE 2



- 1 - TOP DRAIN Ø 75-110-125-160 mm.
UNI EN 1451-1
- 2 - Adaptor piece for traffic resistant grille Art. 218
- 3 - Traffic resistant grille Art. 216
- 4 - Pipe or pipe bell joint
UNI EN 1451-1 Art. 222-224-226-228
- 5 - Floor
- 6 - Steam barrier
- 7 - Insulation
- 8 - First layer of membrane
- 9 - Second layer of membrane
- 10 - Separation layer
- 11 - Anti slip tiles
- 12 - Anti slip and anti freezing tiles

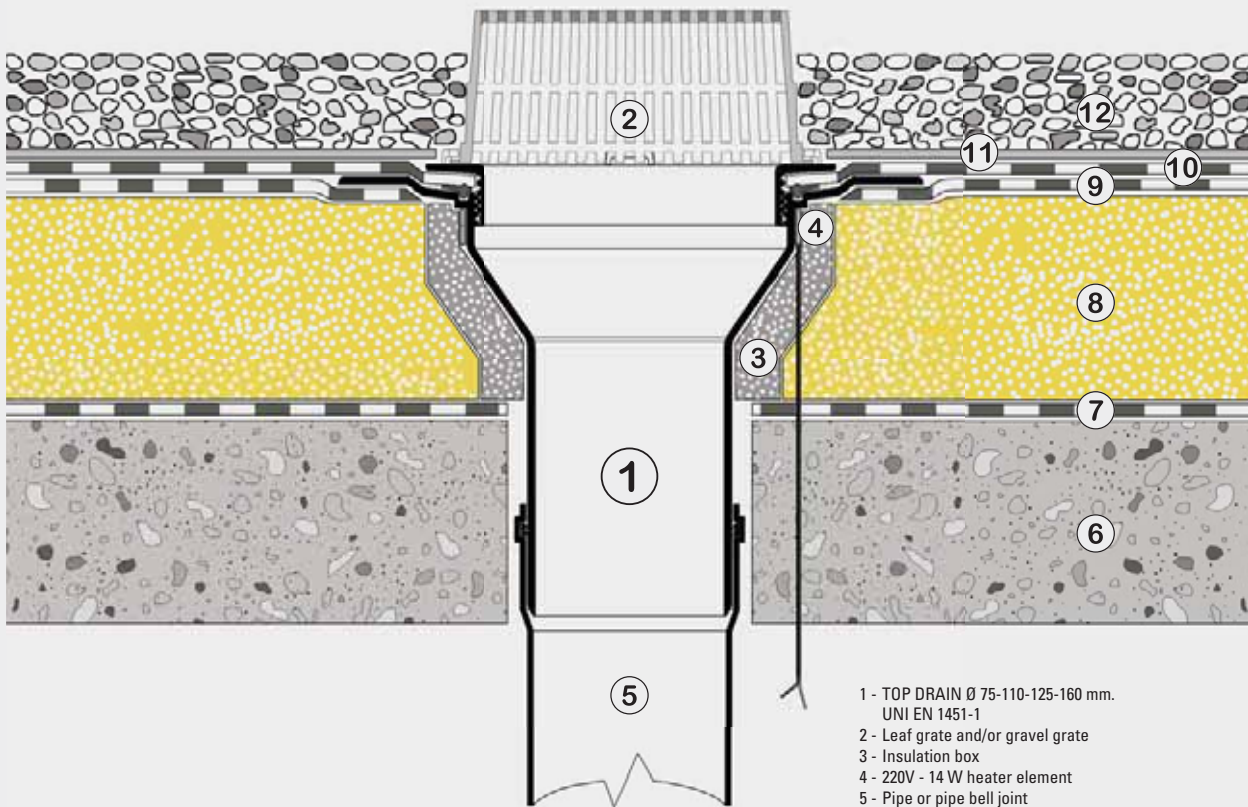
N.B.: the drawing shows point 8-9 application with two layers of bituminous membranes. The application indicated allows the applicator to use all types of waterproofing membranes.

WALKABLE ROOF INSTALLATION EXAMPLE 3



N.B.: the drawing shows point 9-10 application with two layers of bituminous membranes. The application indicated allows the applicator to use all types of waterproofing membranes.

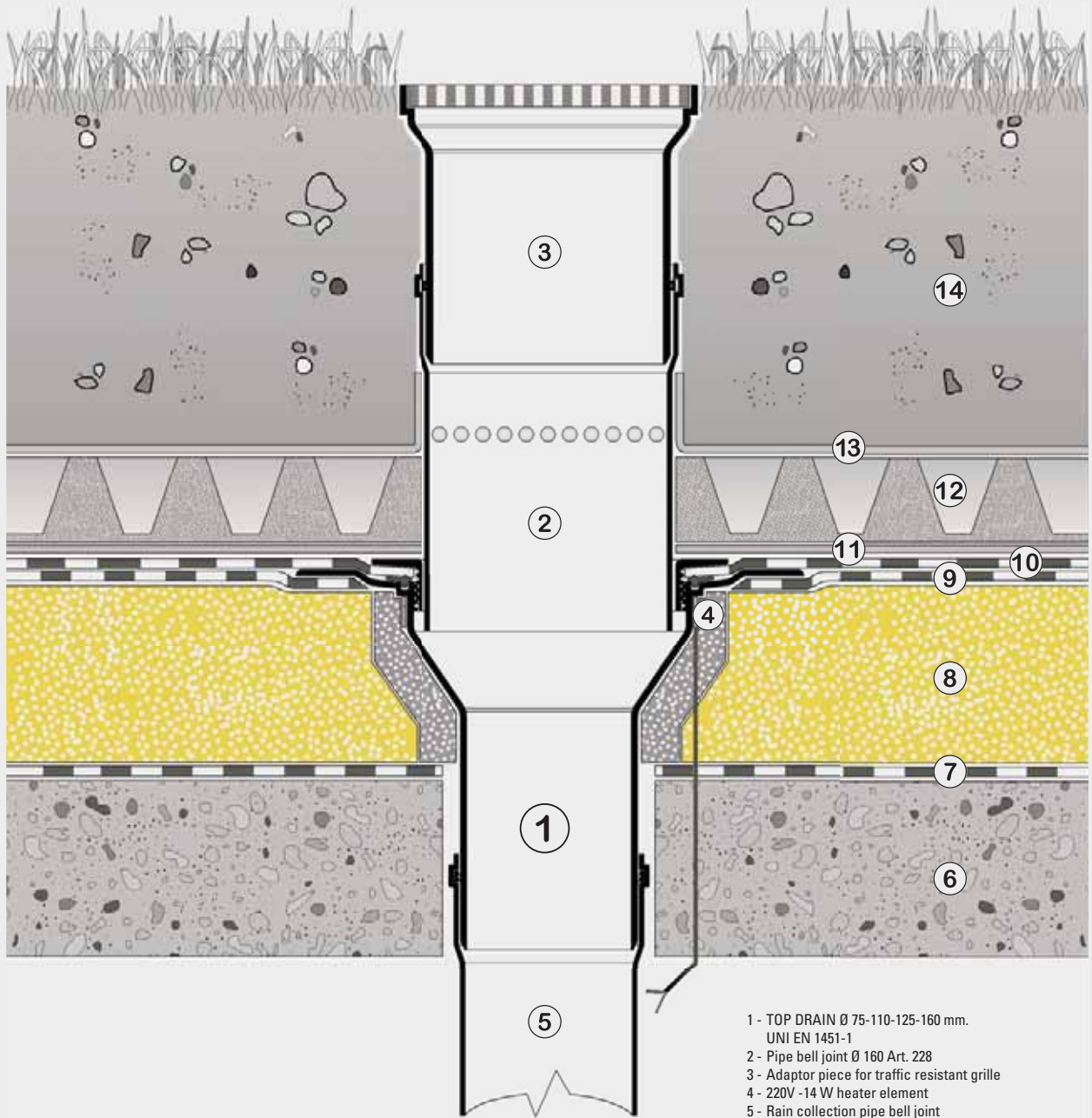
INDUSTRIAL BALASTED ROOF INSTALLATION EXAMPLE 4



- 1 - TOP DRAIN Ø 75-110-125-160 mm.
UNI EN 1451-1
- 2 - Leaf grate and/or gravel grate
- 3 - Insulation box
- 4 - 220V - 14 W heater element
- 5 - Pipe or pipe bell joint
UNI EN 1451-1 Art. 222-224-226-228
- 6 - Floor
- 7 - Steam barrier
- 8 - Insulation
- 9 - First layer of membrane
- 10 - Second layer of membrane
- 11 - Non woven fabric
- 12 - Washed gravel 5-6 cm.

N.B.: the drawing shows point 9-10 application with two layers of bituminous membranes. The application indicated allows the applicator to use all types of waterproofing membranes.

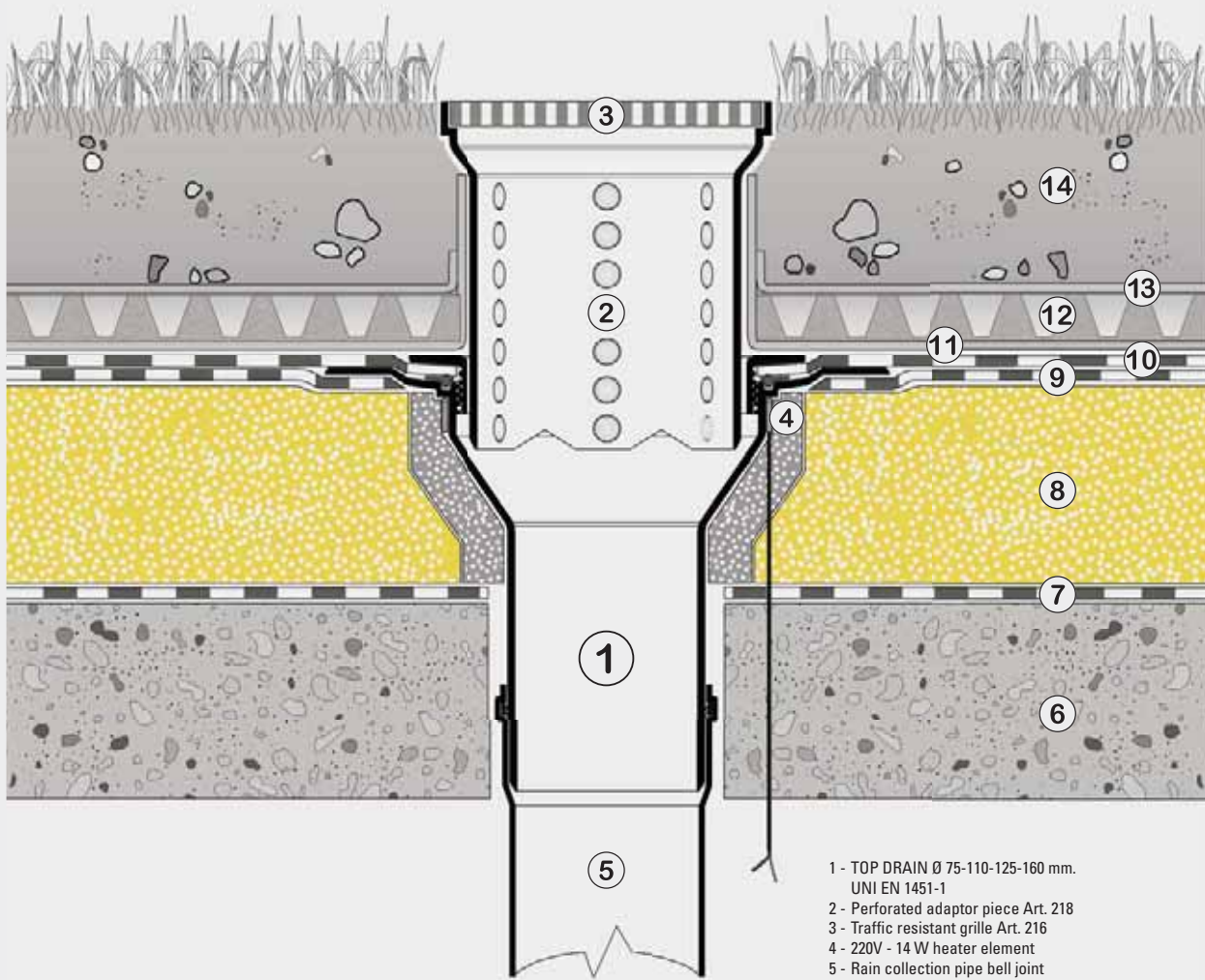
ROOF GARDEN INSTALLATION EXAMPLE 5



- 1 - TOP DRAIN Ø 75-110-125-160 mm.
UNI EN 1451-1
- 2 - Pipe bell joint Ø 160 Art. 228
- 3 - Adaptor piece for traffic resistant grille
- 4 - 220V -14 W heater element
- 5 - Rain collection pipe bell joint
UNI EN 1451-1 Art. 222-224-226-228
- 6 - Floor
- 7 - Steam barrier
- 8 - Insulation
- 9 - First anti root layer
- 10 - Second layer of membrane
- 11 - Separation layer non woven fabric
- 12 - Rainwater collection (model Dorken)
- 13 - Separation layer non woven fabric
- 14 - Earth for green roof

N.B.: the drawing shows point 9-10 application with two layers of bituminous membranes. The application indicated allows the applicator to use all types of waterproofing membranes.

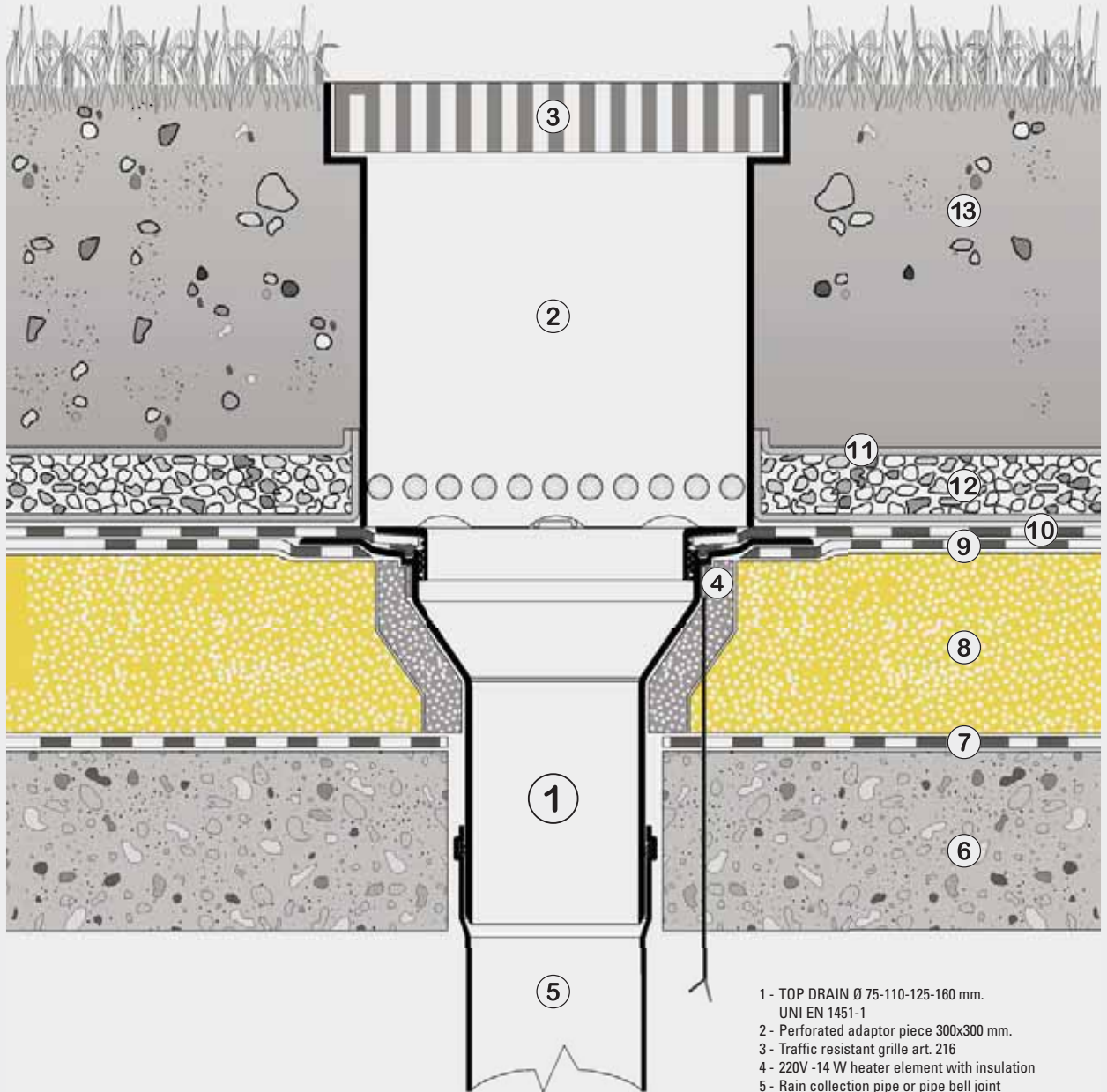
ROOF GARDEN INSTALLATION EXAMPLE 6



- 1 - TOP DRAIN Ø 75-110-125-160 mm.
UNI EN 1451-1
- 2 - Perforated adaptor piece Art. 218
- 3 - Traffic resistant grille Art. 216
- 4 - 220V - 14 W heater element
- 5 - Rain collection pipe bell joint
UNI EN 1451-1 Art. 222-224-226-228
- 6 - Floor
- 7 - Steam barrier
- 8 - Insulation
- 9 - First anti root layer
- 10 - Second layer of membrane
- 11 - Separation layer non woven fabric
- 12 - Rainwater collection (model Dorken)
- 13 - Separation layer non woven fabric
- 14 - Earth for green roof

N.B.: the drawing shows point 9-10 application with two layers of bituminous membranes. The application indicated allows the applicator to use all types of waterproofing membranes.

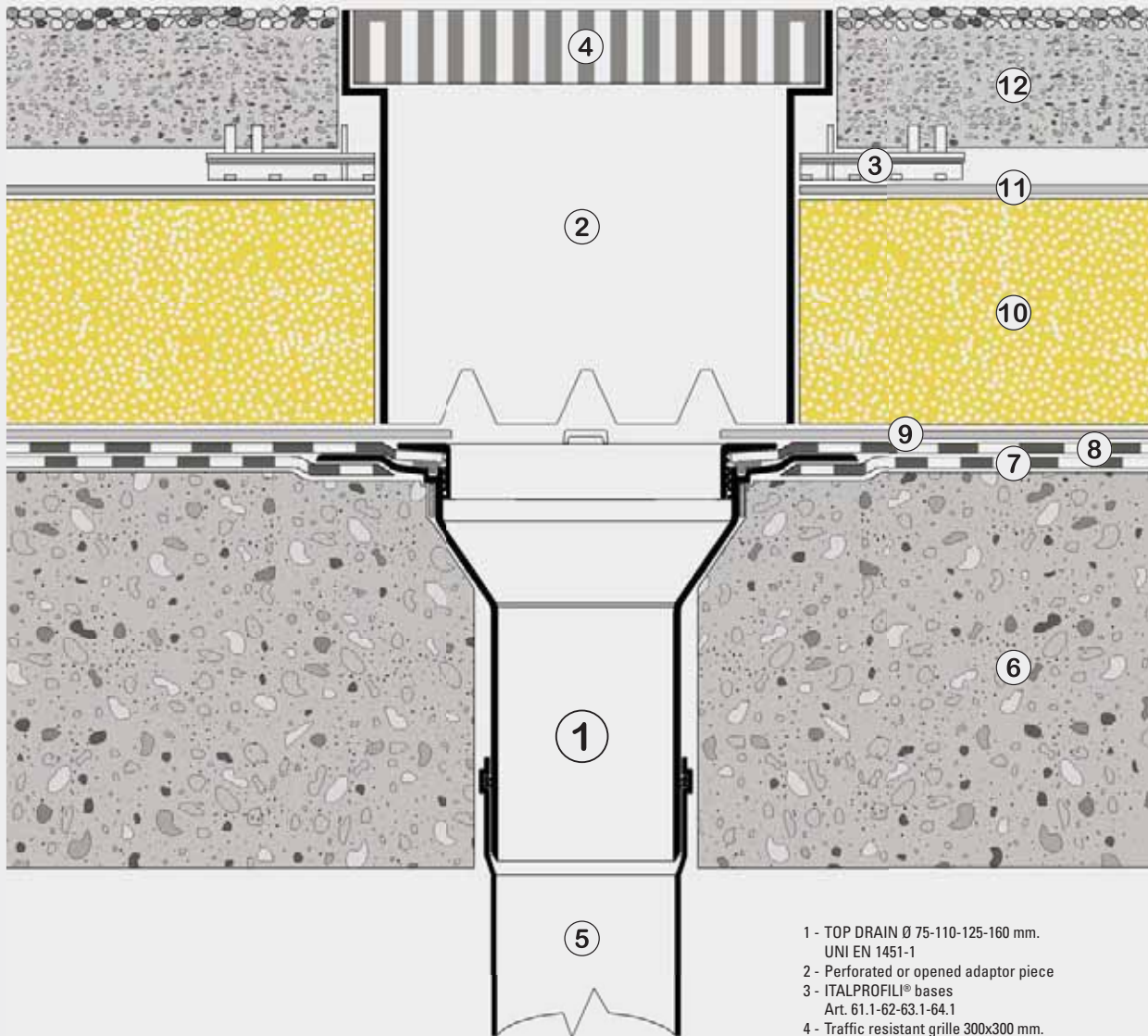
ROOF GARDEN INSTALLATION EXAMPLE 7



- 1 - TOP DRAIN Ø 75-110-125-160 mm.
UNI EN 1451-1
- 2 - Perforated adaptor piece 300x300 mm.
- 3 - Traffic resistant grille art. 216
- 4 - 220V -14 W heater element with insulation
- 5 - Rain collection pipe or pipe bell joint
Art. 222-224-226-228
- 6 - Floor
- 7 - Steam barrier
- 8 - Insulation
- 9 - First layer of membrane
- 10 - Second layer of membrane
- 11 - Filter and separation layers
- 12 - Gravel (60-70 mm.)
- 13 - Partially unused land

N.B.: the drawing shows point 9-10 application with two layers of bituminous membranes. The application indicated allows the applicator to use all types of waterproofing membranes.

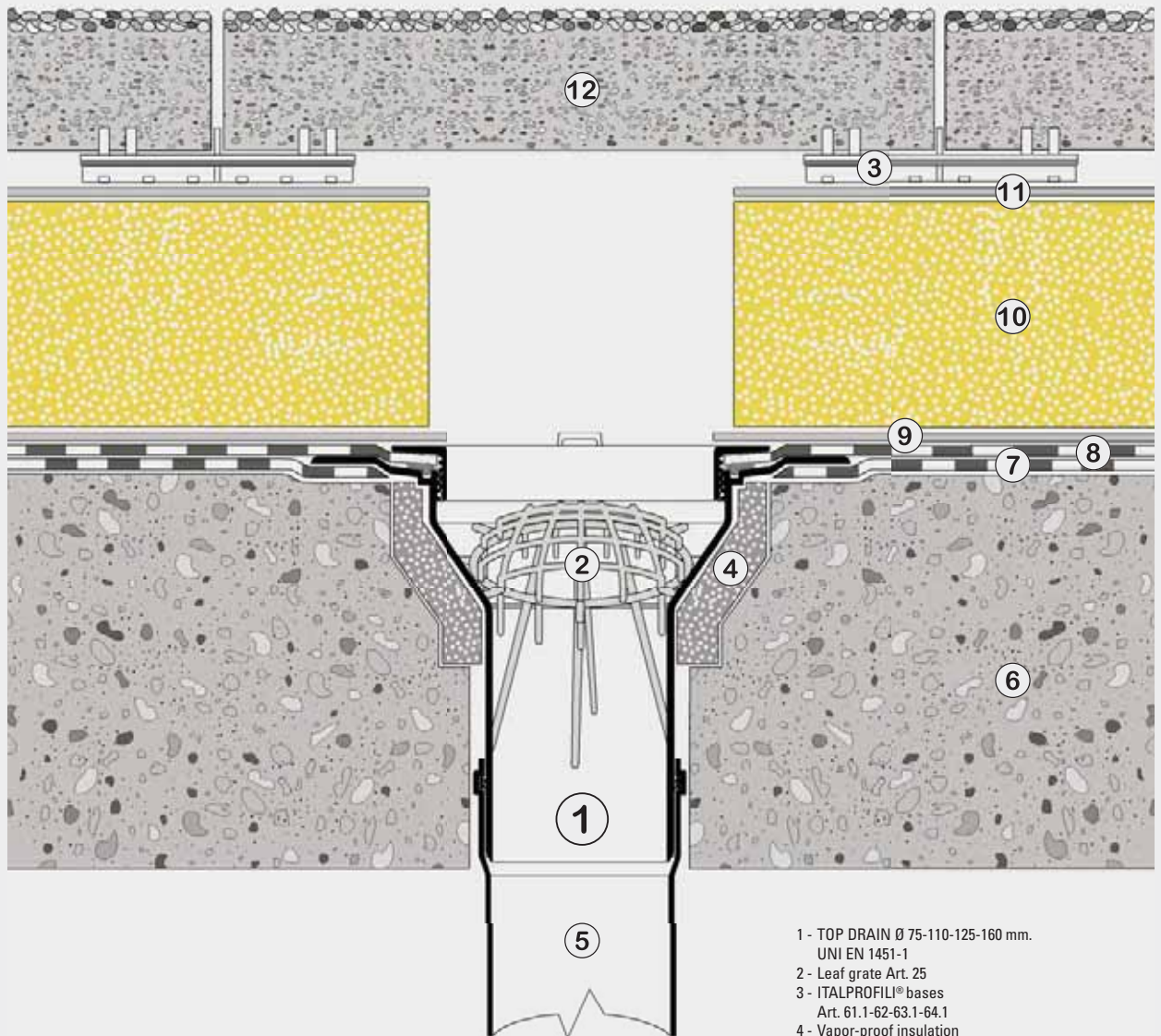
INVERTED ROOF WALKABLE INSTALLATION EXAMPLE 8



- 1 - TOP DRAIN Ø 75-110-125-160 mm.
UNI EN 1451-1
- 2 - Perforated or opened adaptor piece
- 3 - ITALPROFIL® bases
Art. 61.1-62-63.1-64.1
- 4 - Traffic resistant grille 300x300 mm.
- 5 - Rain collection pipe or pipe bell joint
UNI EN 1451-1 Art. 222-224-226-228
- 6 - Floor
- 7 - First layer of membrane
- 8 - Second layer of membrane
- 9 - Separation layer non woven fabric
- 10 - Insulation
- 11 - Separation layer non woven fabric
- 12 - Prefabricated slabs

N.B.: the drawing shows point 7-8 application with two layers of bituminous membranes. The application indicated allows the applicator to use all types of waterproofing membranes.

INVERTED ROOF WALKABLE INSTALLATION EXAMPLE 9



- 1 - TOP DRAIN Ø 75-110-125-160 mm.
UNI EN 1451-1
- 2 - Leaf grate Art. 25
- 3 - ITALPROFILI® bases
Art. 61.1-62-63.1-64.1
- 4 - Vapor-proof insulation
- 5 - Rain collection pipe or pipe bell joint
Art. 222-224-226-228
- 6 - Floor
- 7 - First layer of membrane
- 8 - Second layer of membrane
- 9 - Separation layer non woven fabric
- 10 - Insulation
- 11 - Filter separation layer
- 12 - Walkable slabs

N.B.: the drawing shows point 7-8 application with two layers of bituminous membranes. The application indicated allows the applicator to use all types of waterproofing membranes.

ITALPROFILI®

AIR VENTS FOR ROOFS HAVING PITCHES



AERATOR FOR ROOFS HAVING PITCHES



Art. 154
Red



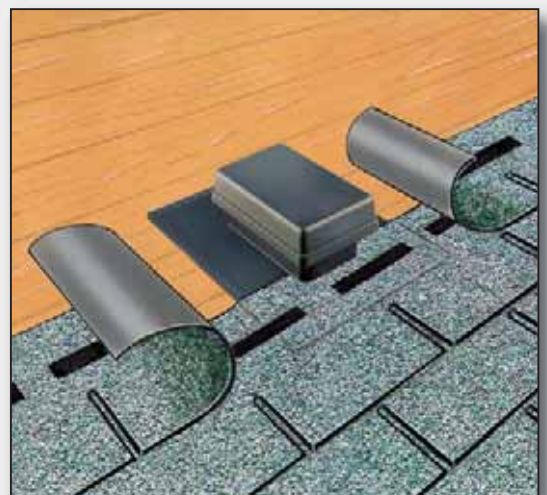
Art. 155
Black



Art. 156 - 156.1
Flexible pipe



Art. 157 Black
Art. 157.1 Brown



AERATOR FOR ROOFS HAVING PITCHES

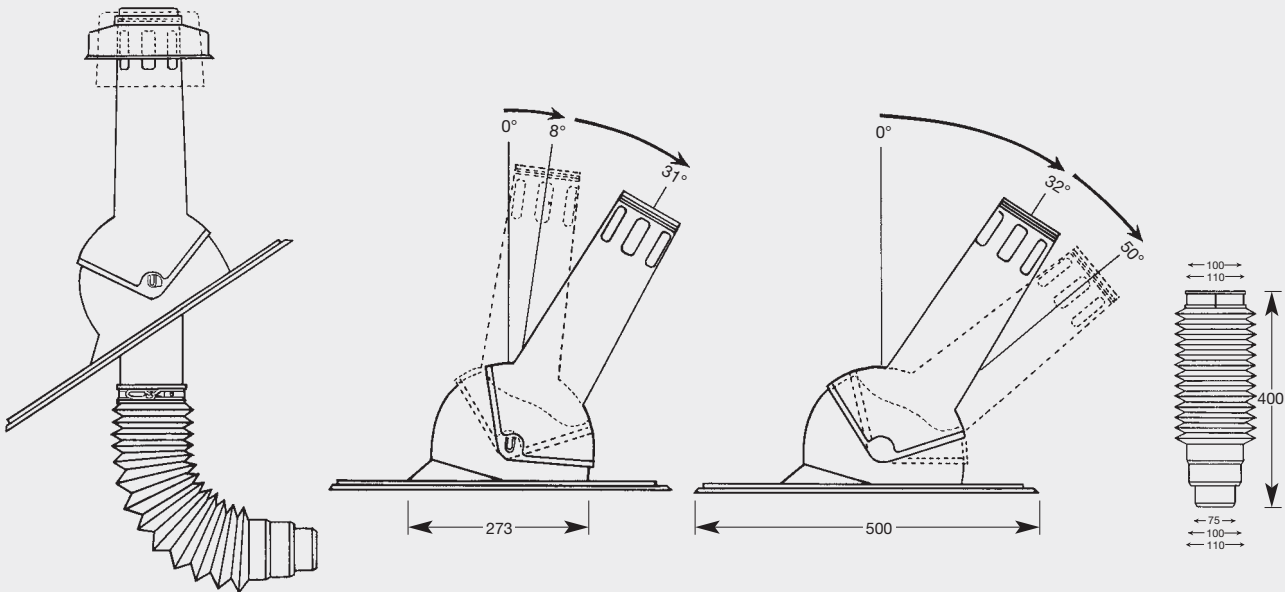
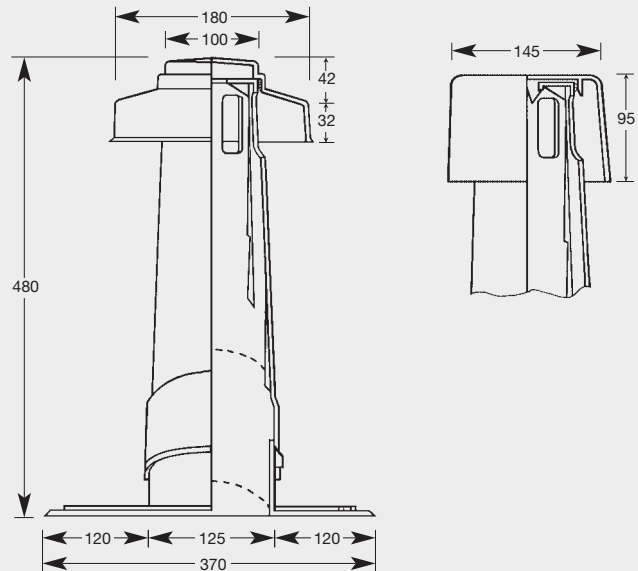
AERATOR FOR ROOFS HAVING PITCHES are suitable for use on roofs having pitches between 8° and 50° .

Suitable for use to aerate attic areas even using an extractor fan thanks to the large diameter of the pipe.

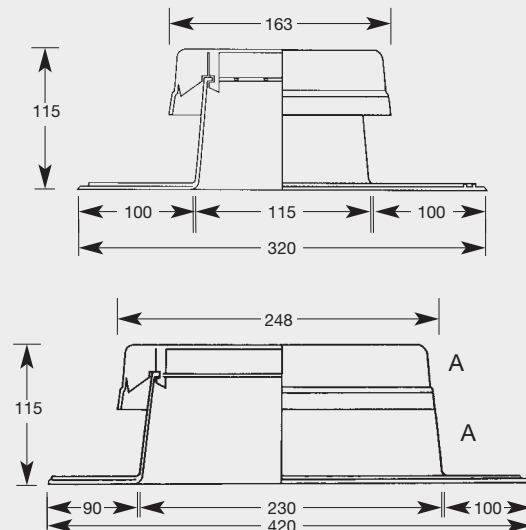
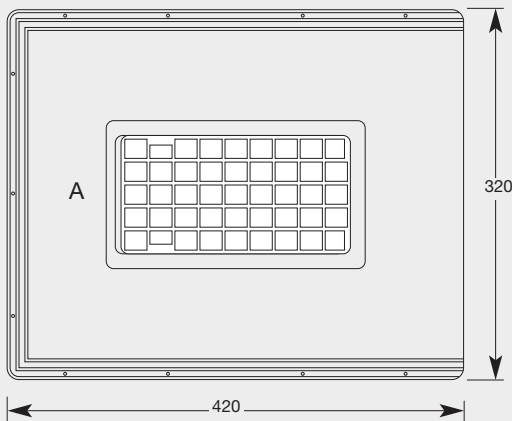
The aerators, apart from the plate and pivoting body, can also be supplied with a bellows adaptor to fit any angle of pipe.

The articles described above can be used on asphalt shingles, modified bitumen, fibrecement, natural slate, ceramic or sheet steel decks roofs. All the articles are made from IGOM.EE thermoplastic rubber having high mechanical and physical characteristics as well as good resistance to ageing and UV breakdown Ozone and other atmospheric and chemical agents.

Thanks to the characteristics of the materials used the products can be used in working temperature ranges between -25°C and $+100^{\circ}\text{C}$.



AERATORS ART. 157 and 157.1 for flat roofs or roofs having pitches between 0° and 50° are ideally suited for the aeration of cavity walls and roof structures and may be connected to pipes coming from beneath.



AERATOR FOR ROOFS HAVING PITCHES VERTICAL



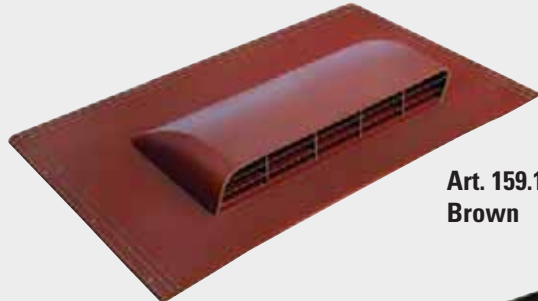
Art. 158
Black



Art. 158.1
Brown



Art. 159
Black



Art. 159.1
Brown



Art. 2005

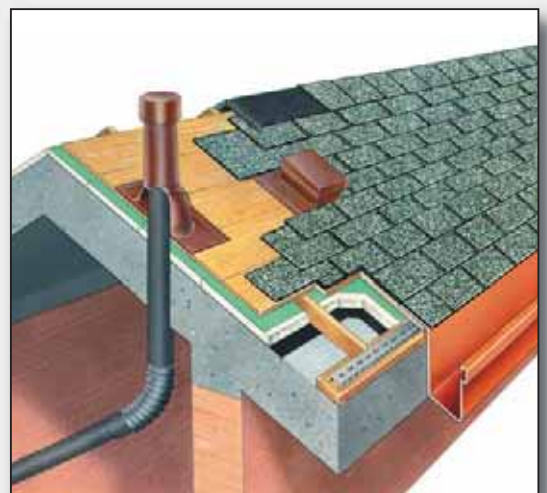


Art. 2010

VENTILATED RIDGE ELEMENTS

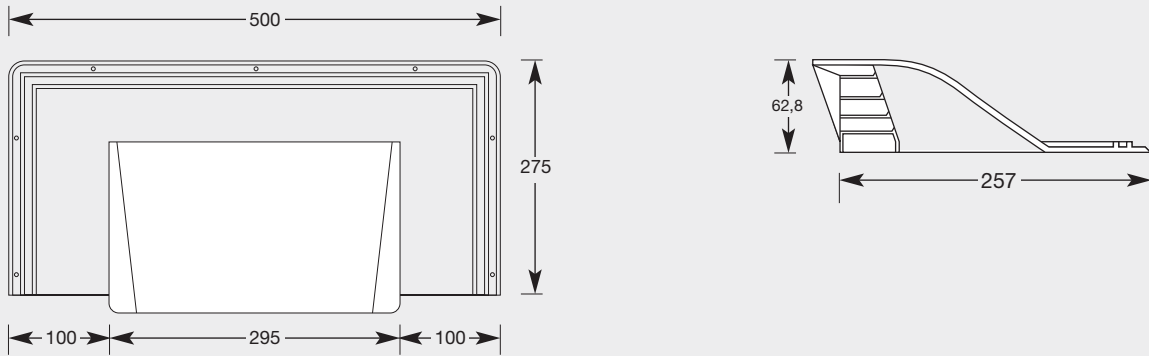


Art. 2005

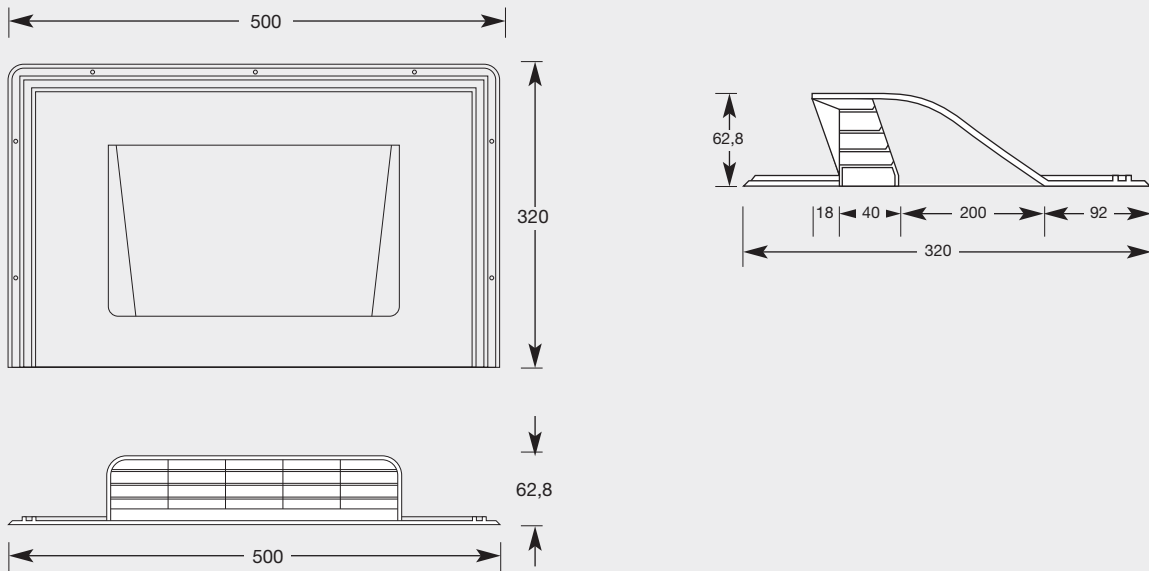


AERATOR FOR ROOFS HAVING PITCHES VERTICAL

AERATORS Art. 158 and Art. 158.1 are suitable for use on roofs having pitches between 15° and vertical. They are used as cavity aerators. They can accommodate pipes up to Ø 110 mm.

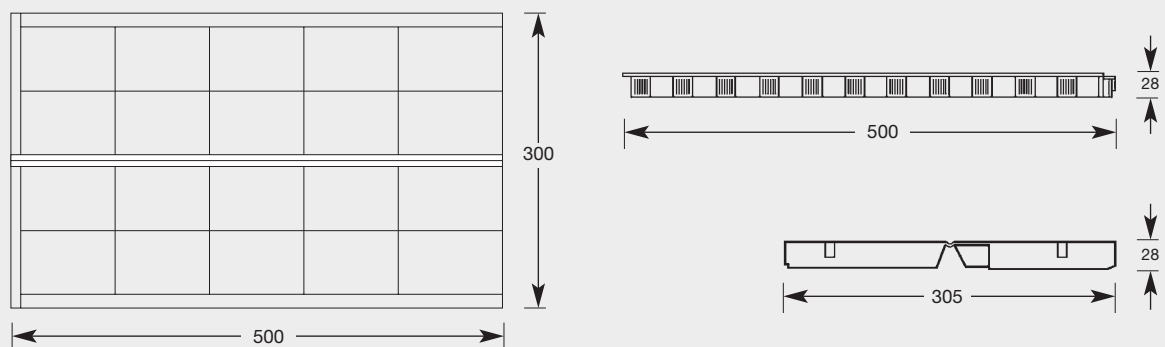


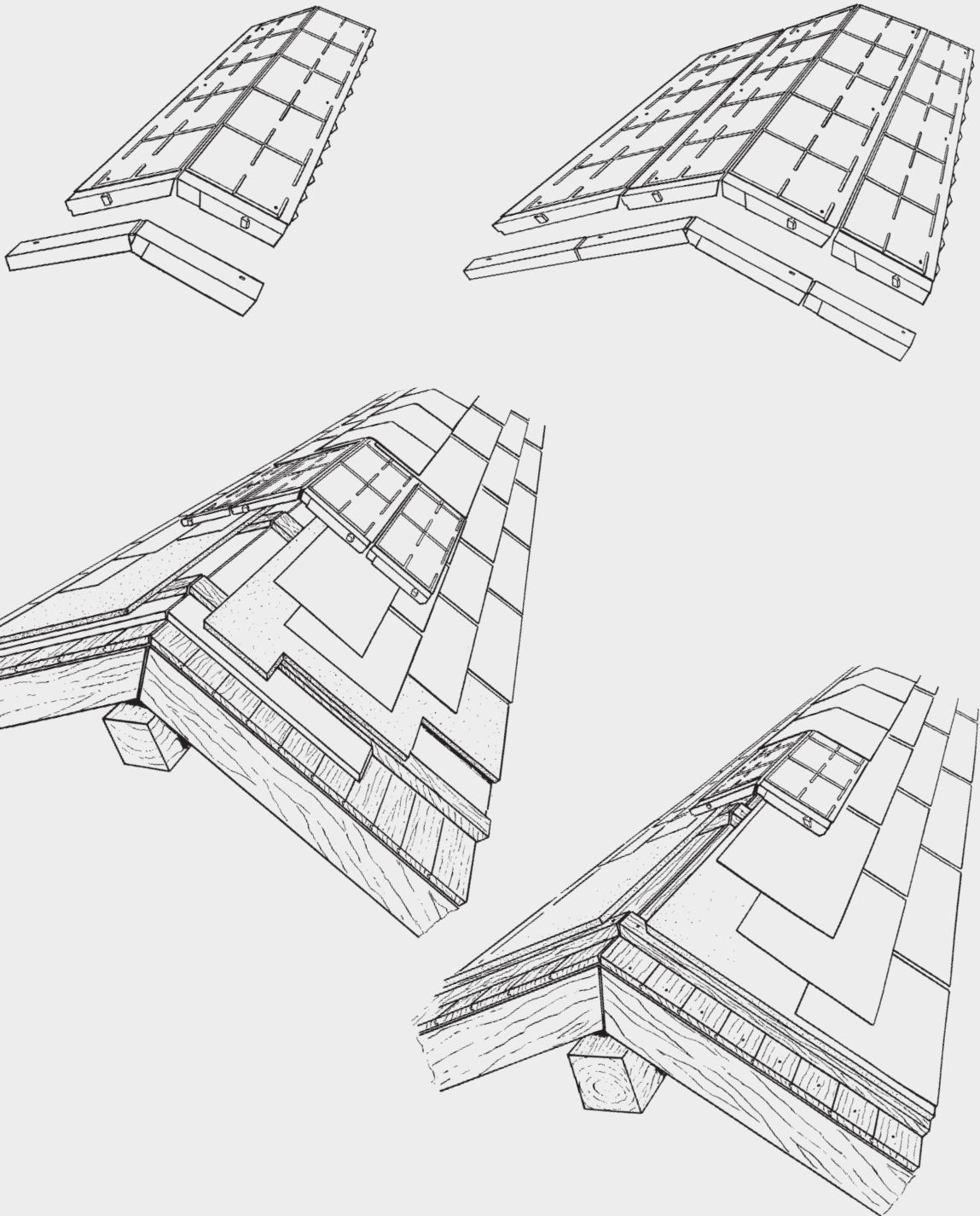
AERATORS Art. 159 and Art. 159.1 have the same function but with a front flange where the roofing material can be overlaid giving better safety margins against water back flow into the aerator. For even higher safety it has a 7 + 3 mm. step. The two sizes are fitted with 18 mm. Dripedge.



The **RIDGE** element has been carefully developed for the aeration of cavity in cold roofs where bituminous shingles or fibre cement sheeting is used. The ridge can be used on any pitch thanks to the labyrinth design which prevents the back flow of water by even the strongest of winds. It is also easily aligned thanks to a specially designed hook system it has a built in insect net holes are pre-moulded into the ridge elements which are supplied with end closure caps. The ridge is made of moulded thermoplastic which is flexible and resistant at both high and low temperatures.

■ **INSTALLATION METHOD PAG. 84**





INSTALLATION METHOD

- 1 - Leave a space of approximately 8 to 10 cm. when fixing the deck at the ridge.
- 2 - Install as normal the bituminous shingles up to this edge.
- 3 - Position 2 elements (ITALPROFILI® ridge) and mark a line.
- 4 - Fix the ridge elements in place by clipping into position on to the other and then fix in place using the screws provided through the appropriate holes in the ridge.
- 5 - Fix the closing elements at the extremities.
- 6 - Cover the prefabricated ridge using shingle ridge elements which must extend at least 1 cm. over the lower edge of the prefabricated ridge. Nails of sufficient length should be used so that they pass through the shingles, the ridge elements and into the wooden deck.

Should a double width ridge be needed this can be done by cutting the prefabricated ridge element in half and positioning it down slope and covering the whole with shingles.

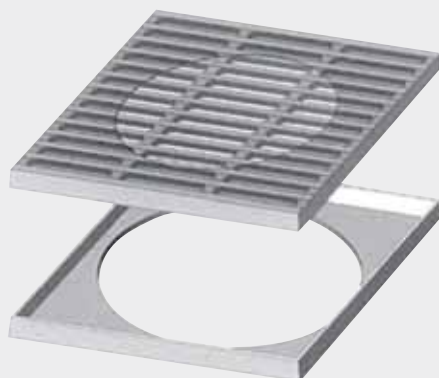
ITALPROFILI®

**RANGE OF PRODUCTS FOR USE
WITH CEMENTITIUS WATERPROOFING
and/or COLD APPLIED MEMBRANES**



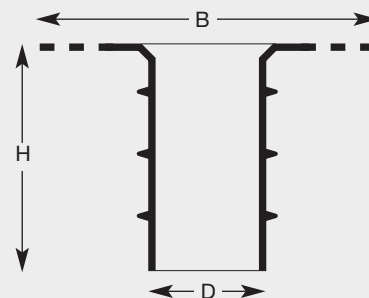
ACCESSORIES SUITABLE FOR
CEMENTITIUS OR LIQUID MEMBRANES

ANTIBACKUP ROOF DRAIN R WITH MESHED FLANGE



The **DRAIN UNIT** shown here is an ideal means of attaining continuity between the area being waterproofed and the discharge pipe on flat roofs. It has been designed for use with two-component cementitious waterproofing and all cold applied liquid membranes.

ART.	150R	1.1R	13R	10R	14R	11R	16R	12R	17R	112R
DENOM	50	60	75	80	90	100	110	125	140	160
B	262	272	285	288	298	307	320	327	343	365
H	250	250	250	250	250	250	250	250	250	250
D	42	54	66	73	83	92	100	116	132	148



PRODUCT DATA

- Made from thermoplastic IGOM EE.
- Flexible flange with 5 mm x 5 mm x 260 mm mesh net.
- Tail pipe fitted with a 100 - 110 mm x h = 250 mm anti backup.
- PP grille seat h = 10.5 mm x 150 mm x 110 mm.
- PP or ABS grille h = 9 mm x 143 mm x 143 mm.

INSTALLATION

- Install the first layer of waterproofing over the whole area, also under the flange after inserting the outlet pipe to the discharge pipe.
- Embed the reinforcing net (5 mm x 5 mm glass fibre net) up to the edge of the unit.
- Install the second and any successive layers up to the hole.

DESCRIPTION OF SPECIFICATIONS

Supply and installation of drain unit made from thermoplastic rubber, having an antibackup stem h 250 mm. Flange provided with meshed net 5x5 mm. Along its edges.

Complete with grill seat in ABS mm. 150 x 150 h mm 10.5.

Grill in ABS mm. 143 x 143 h mm 9.

SIDE DISCHARGE DRAIN UNIT Ø mm. 50-75



The **SIDE DISCHARGE DRAIN UNIT** shown here is an ideal means of attaining continuity between the area being waterproofed and the discharge pipe from balconies, utility room etc. It has been designed for use with two-component cementitious waterproofing and all cold applied liquid membranes.

PRODUCT DATA (Art. 141.1 - 142.2)

- Made from thermoplastic IGOM EE
- Flange with 5 mm x 5 mm mesh net, Ø 260 mm
- Pipe in accordance with UNI EN 1451-1 Ø 50 - 75 mm
- Drain height 62 mm x Ø 50 mm, 85 mm Ø 75 mm
- PP grille seat mm x 110 x 110 h = 10.5 mm
- Stainless steel or ABS grille h = 9.5 mm x 108 mm x 108 mm

INSTALLATION

- Position the drain unit as required and connect to the discharge pipe using UNI EN 1451 -1 pipes of the appropriate diameter.
- Create appropriate falls.
- Once the falls are set and stabilized, remove the protective nylon cover and make sure that the unit is free of foreign bodies.
- Install the first layer of waterproofing also under the flange and embed the reinforcing net (5 mm x 5 mm glass fibre net) up to the edge of the unit.
- Install the second and any successive layers up to the hole.
- Remove any residue from the edges of the drain unit and insert the grille seat and the grille itself.

DESCRIPTION OF SPECIFICATIONS

Supply and installation of side discharge drain unit made from thermoplastic rubbers, having flange Ø 260 mm fitted with a 5 mm x 5 mm mesh along its edges, height 62 mm for the Ø 50 mm, and height 85 mm for the Ø 75 mm, connected to drain pipes UNI EN 1451-1 Ø..... Complete with PP grill-bellow seat mm 110x110 h mm 10.5 and ABS or stainless steel grill mm 108x108 h 9.5 mm.

SIDE DISCHARGE DRAIN UNIT WITH SIPHON Ø mm. 50-75



The **SIDE DISCHARGE DRAIN UNIT WITH SIPHON** shown here is an ideal means of attaining continuity between the area being waterproofed and the discharge pipe from balconies, bathrooms, utility room etc. It has been designed for use with two-component cementitious waterproofing and all cold applied liquid membranes.

PRODUCT DATA (Art. 144.1 - 145.1)

- Made from thermoplastic IGOM EE.
- Flange with 5 mm x 5 mm mesh net, Ø 260 mm.
- Pipe in accordance with UNI EN 1451-1 Ø 50 - 75 mm.
- Drain height 62 mm x Ø 50 mm, 85 mm Ø 75 mm.
- PP grille seat mm 110 x 110 h 10.5 mm.
- Stainless steel or ABS grille h 9.5 mm x 108 mm x 108 mm.

INSTALLATION

- Position the drain unit as required and connect to the discharge pipe using UNI EN 1451 -1 pipes of the appropriate diameter.
- Create appropriate falls.
- Once the falls are set and stabilized, remove the protective nylon cover and make sure that the unit is free of foreign bodies.
- Install the first layer of waterproofing also under the flange and embed the reinforcing net (5 mm x 5 mm glass fibre net) up to the edge of the unit.
- Install the second and any successive layers up to the hole.
- Remove any residue from the edges of the drain unit and insert the grille seat and the grille itself.

DESCRIPTION OF SPECIFICATIONS

Supply and installation of side discharge drain unit with siphon made from thermoplastic rubbers, having flange Ø 260 mm fitted with a 5 mm x 5 mm mesh along its edges, height 62 mm for the Ø 50 mm, and height 85 mm for the Ø 75 mm, connected to drain pipes UNI EN 1451 -1 Ø..... Complete with PP grill-bellow seat mm 110x110 h mm 10.5 and ABS or stainless steel grill mm 108x108 h 9.5 mm.

N.B.: The use of siphon type drain units should be avoided in areas where freezing could occur.

87° DISCHARGE DRAIN Ø mm. 63-75



The **DRAIN UNIT** shown here is an ideal means of attaining continuity between the area being waterproofed and the discharge pipe from flat roofs, balconies with free discharge into down-pipes or collector boxes. It has been designed for use with two-component cementitious waterproofing and all cold applied liquid membranes.

PRODUCT DATA (Art. 304.1 - 304.3 - 304.4 - 304.5 - 304.6 - 304.7 - 304.8 - 304.9 - 304.10 Art. 305.1 - 305.3 - 305.4 - 305.5 - 305.6 - 305.7 - 305.8 - 305.9 - 305.10)

- Made from thermoplastic IGOM.
- Flexible flange side mm 270 h 85 mm L 80 mm with 5 mm x 5 mm mesh net.
- Rigid pipe Ø 63 - 75 mm x L 500 mm.
- 2 sizes of pre-shaped pipe, 200 mm, 300 mm on long side.
- Colours: black, grey, ivory.

INSTALLATION

- Create appropriate falls then make a suitable hole 63 x 75 mm inclined 3° (5%).
- Position the drain, after installing the first layer of waterproofing under the flange.
- Install the first layer of waterproofing over the whole area to be covered before placing the reinforcing net (glass fibre net with 5 mm x 5 mm mesh) up to the edge of the drain unit
- Install second and thereafter subsequent layers of waterproofing.

DESCRIPTION OF SPECIFICATIONS

Supply and installation of drain unit made from thermoplastic rubbers, having a tube Ø 63 - 75 x L 500 mm. Flange side mm 270 h 85 mm L 80 mm, supplied with 5 mm x 5 mm mesh along its edges and shaped pipe 200 - 300 mm on its long side. See executive drawing.

N.B.: The unit discharge drain can be supplied with shaped or standard pipe l. mm. 500.

87° DISCHARGE DRAIN - mm. 65x97



The **DRAIN UNIT** shown here is an ideal means of attaining continuity between the area being waterproofed and the discharge pipe from flat roofs, balconies with free discharge into down-pipes or collector boxes. It has been designed for use with two-component cementitious waterproofing and all cold applied liquid membranes.

PRODUCT DATA (Art. 45.20 - 45.22 - 45.23 - 45.24 - 45.25 - 45.26 - 45.27 - 45.28 - 45.29)

- Made from thermoplastic IGOM.
- Flexible flange side mm 270 h 85 mm L 80 mm with 5 mm x 5 mm mesh net.
- Rigid pipe 65 - 97 mm x L 500 mm.
- 2 sizes of pre-shaped pipe, 200 mm, 300 mm on long side.
- Colours: black, grey, ivory.

INSTALLATION

- Create appropriate falls then make a suitable hole 70x100 mm inclined 3° (5%).
- Position the drain, after installing the first layer of waterproofing under the flange.
- Install the first layer of waterproofing over the whole area to be covered before placing the reinforcing net (glass fibre net with 5 mm x 5 mm mesh) up to the edge of the drain unit
- Install second and thereafter subsequent layers of waterproofing.

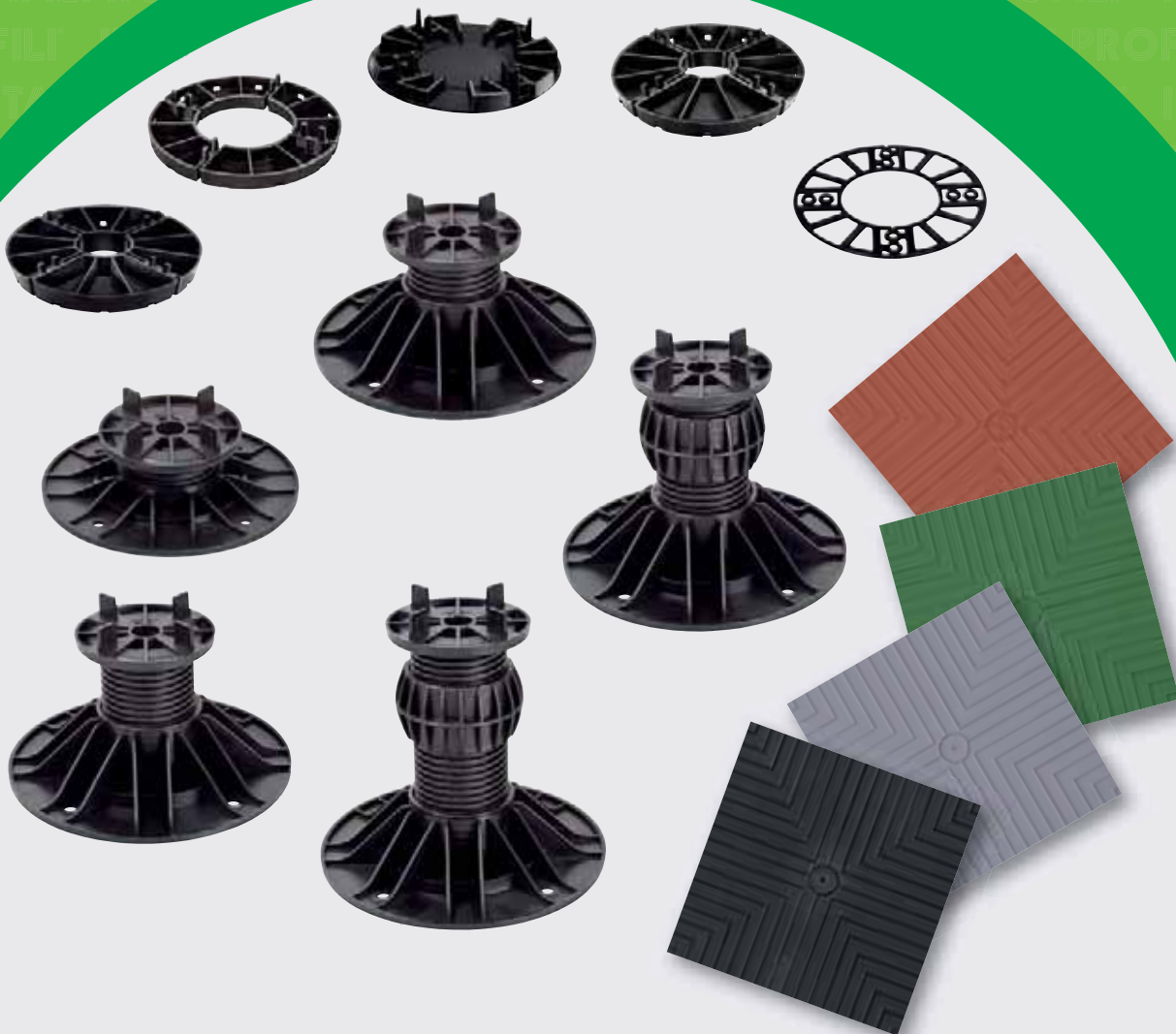
DESCRIPTION OF SPECIFICATIONS

Supply and installation of drain unit made from thermoplastic rubbers, having a tube 65 - 97 x L 500 mm. Flange side mm 270 h 85 mm L 80 mm, supplied with 5 mm x 5 mm mesh along its edges and shaped pipe 200 - 300 mm on its long side. See executive drawing.

N.B.: The unit discharge drain can be supplied with shaped or standard pipe l. mm. 500.

ITALPROFILI®

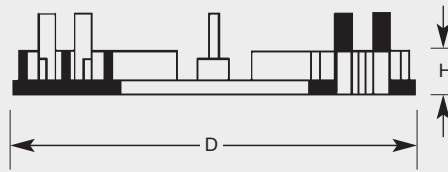
PAVING SUPPORT SYSTEM AND RUBBERIZED THERMOPLASTIC INTERLOCKING PEDESTRIAN



BASE FOR PREFABRICATED SLABS



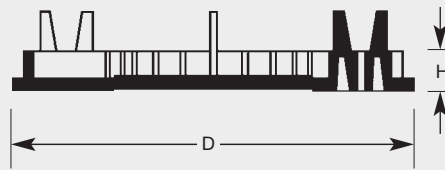
Art. 61.1



ART.	61
D	150
H	15



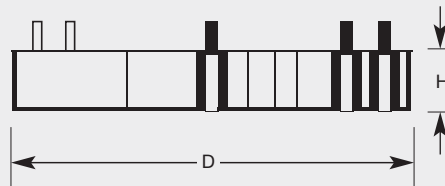
Art. 62



ART.	62
D	150
H	13



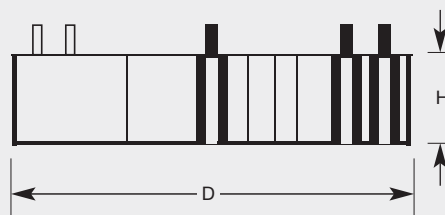
Art. 63.1



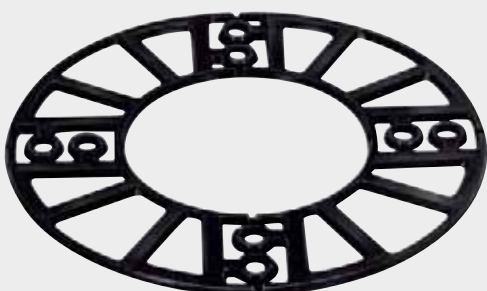
ART.	63.1
D	150
H	20



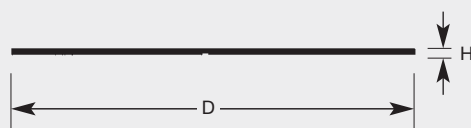
Art. 64.1



ART.	64.1
D	150
H	30



Art. 65



ART.	65
D	150
H	3

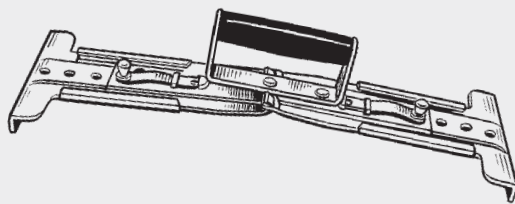
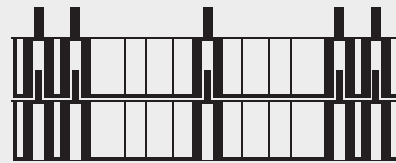
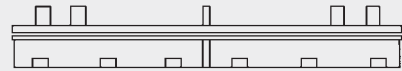
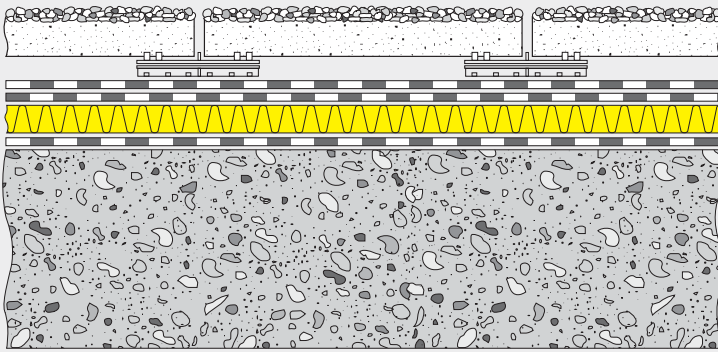
BASE FOR PREFABRICATED SLABS

ITALPROFILI® HDPE supports quickly and easily resolve problems arising from the installation of a paving system. The support consists of a high resistance base which is placed directly on to the waterproofing cap sheet. The paving slabs are then placed directly onto the supports without the use of concrete or adhesives of any sort. The base is fitted with guides which position and anchor perfectly the paving slabs and which at the same time act as expansion joints. The base of the support is made of HDPE and its shape allows rainwater to drain and flow off easily on the underlying waterproofing membrane, thus also eliminating any chance of ponding caused by the supports themselves trapping water.

All of the supports are modular and can be stacked so as to achieve the height or thickness of gap underneath the paving desired, and eliminating any unevenness of the roof deck itself. The supports are designed to eliminate cracking and damaging of the waterproofing membrane caused by expansion and contraction of the paving or damage caused by walking on the paving.

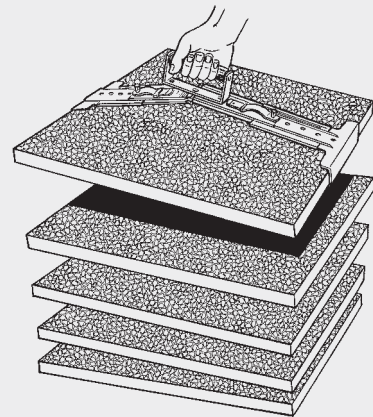
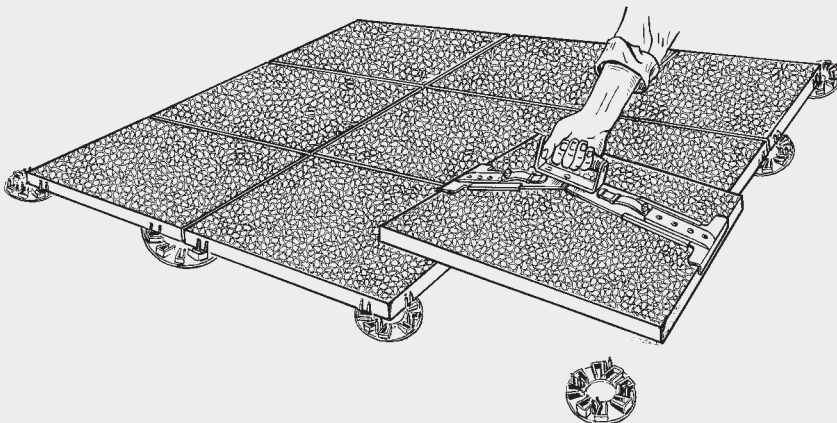
Over and above these advantages it is also a very quick and cost effective means of installing the paving. The paving can be readily removed and replaced should it become damaged or should inspection of the waterproofing be necessary, without any damage at all. The system also forms an insulation layer of air between the lower surface of the paving and the waterproofing and protects the waterproofing itself from damage by exposure to sunlight.

ITALPROFILI® Base has been designed to fully interlock when stacking, various heights raised paving can be achieved from 15mm upwards. Combinations of supports and levelling shims will allow the gradual increase in raising heights, thereby giving a level finish with all drainage falls under the slabs.



Art. 190

Adjustable for side slabs
cm. 30-35-40-45-50



ADJUSTABLE PAVING SUPPORT



200 mm.

Art. 66 - 66.1
h. from 35 to 55 mm.
h. from 55 to 70 mm.



228 mm.

Art. 66.2
h. from 70 to 110 mm.



228 mm.

Art. 66.3
h. from 110 to 150 mm.



228 mm.

Art. 66.4
h. from 150 to 170 mm.



228 mm.

Art. 66.5
h. from 170 to 200 mm.

ITALPROFILI® **ADJUSTABLE PAVING SUPPORT** system is based on a serious of adjustable modular paving supports that simply and safely adapt to all kinds of surface and floor, with the potential of large cavities beneath the slab. Pipes and cables can be stored beneath allowing easy access allowing for effective drainage between and beneath.

Allow ready access to the waterproofing membrane and eliminate the possibility of efflorescence and algae associated with pavers embedded in sand and sand/cement screeds. They can be used in a large number of roofing types, including concrete slab, real stone paving and timber decking.

Height range	from 35 to 200 mm.
Slope compensation	from 0 a 5%
Material Polypropylene	PP anti UV chemical alkalis resistance, recyclable
Working range	-30°C + 120°C
Certified compression properties	Certificate available upon request

OPTIONAL SELFLEVELLING HEAD



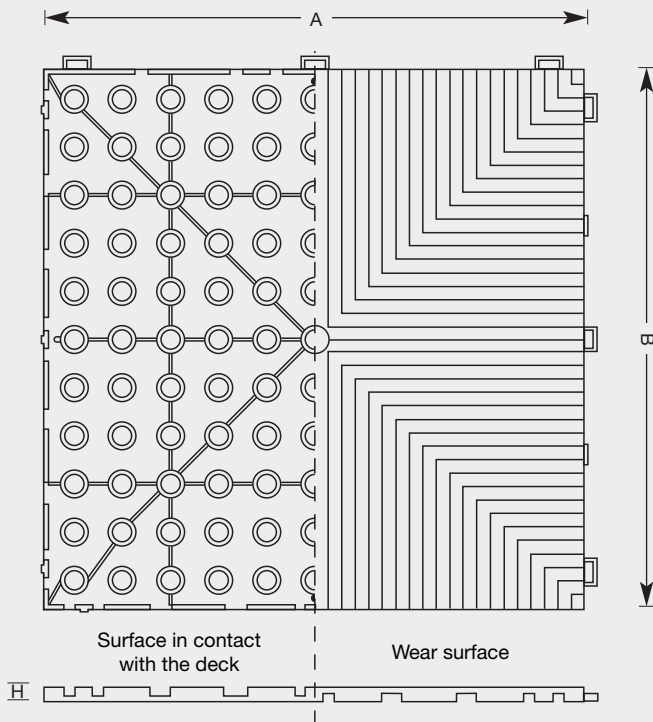
RUBBERIZED THERMOPLASTIC INTERLOCKING PEDESTRIAN TILES



Multi purpose anti-slip flooring system with excellent resistance characteristics for use on flat roofs, leisure areas balconies and access pathways which can be used as protection for the underlying material. Thanks to the raw material high quality can be applied for internal/external areas.

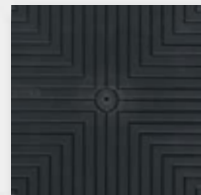
The weight of 6,50 each square meters allow the use on roofs with low bearing capacity. Pedestrian tiles can be quickly lifted and re-located when floor layouts are re-configured.

Raw material	Thermoplastic Rubber additivated UV Shore D45
Elongation/deformation	0,7%
Working Range	-30°C + 70°C
Determination of compressive strength certified N5000 on area of 10.000 mm ²	Certificate available upon request



ART.	250
A	400
B	400
H	10

Art. 250
Black RAL 9005



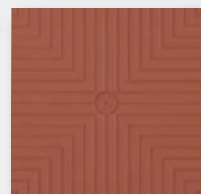
Art. 250G
Grey RAL 7038



Art. 250V
Green RAL 6002



Art. 250M
Brown RAL 8002



The first part of the paper discusses the theoretical background of the research, including the concept of organizational culture and the role of leadership in shaping it. It also reviews the literature on organizational culture and leadership, highlighting the importance of these factors in organizational success.

The second part of the paper describes the research methodology, including the selection of the sample and the data collection methods. The study used a quantitative approach, with data collected through a survey of employees in various organizations. The survey instrument was designed to measure the relationship between organizational culture and leadership.

The third part of the paper presents the results of the study, including the descriptive statistics and the findings of the regression analysis. The results show a positive relationship between organizational culture and leadership, indicating that organizations with a strong culture tend to have more effective leaders.

The fourth part of the paper discusses the implications of the findings for practice and research. The results suggest that organizations should focus on building a strong culture to improve leadership effectiveness. Future research should explore the underlying mechanisms of this relationship and investigate the role of other factors in organizational success.

In conclusion, the study highlights the importance of organizational culture and leadership in organizational success. The findings provide valuable insights into the relationship between these two factors and offer practical implications for organizations seeking to improve their performance.

The author would like to thank the participants and the research assistants who made this study possible.

ITALPROFILI®

JOINT / WATERSTOPS



ELASTIC JOINT



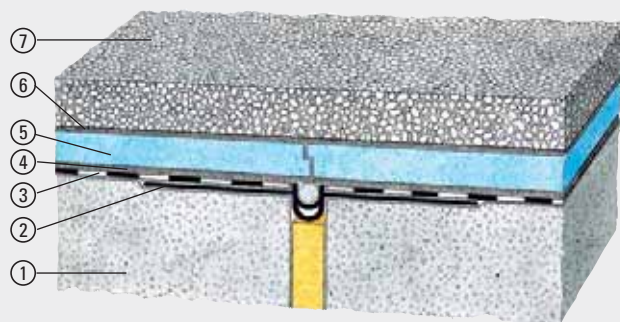
Art. 690



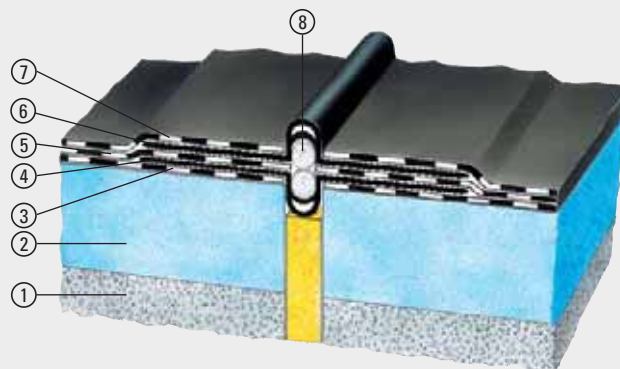
① Deck ② Lightweight concrete ③ Membrane ④ Elastic joint
⑤ Membrane ⑥ ITALPROFILI support ⑦ Paving slabs



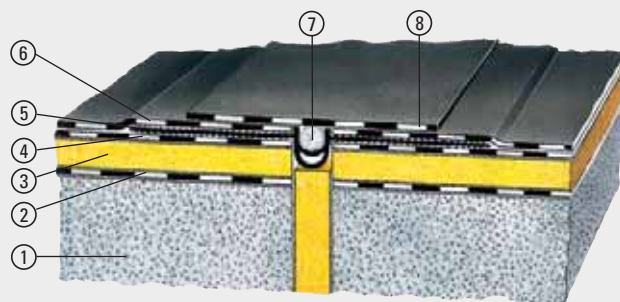
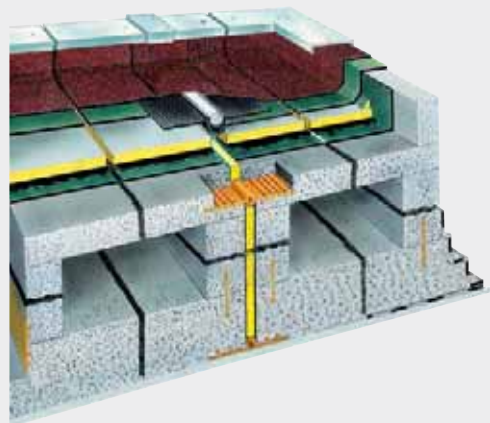
Art. 692



① Deck ② Elastic joint ③ PVC Membrane
④ Non-woven fabric ⑤ Insulation ⑥ Non-woven fabric ⑦ Gravel



① Deck ② Insulation ③ Membrane ④ Elastic joint ⑤ Membrane
⑥ Double Elastic joint ⑦ Membrane ⑧ Double polyurethane foam filler



① Deck ② Vapour barrier ③ Insulation ④ Membrane ⑤ Elastic joint
⑥ Membrane ⑦ Polyurethane foam filler ⑧ Partially attached membrane

Use a 25 mm. diameter closed cell polyurethane rod as filler for the Elastic joints.

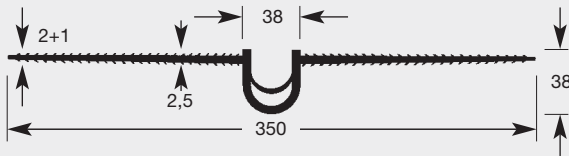
ELASTIC JOINT

EXPANSION JOINTS FOR BITUMINOUS OR PVC WATERPROOFING MEMBRANES FOR USE ON ROOFS, TUNNELS, VIADUCTS ETC.

- The ITALPROFILI® Art. 690 has the following characteristics:
 - two lateral wings 150 mm. wide, ribbed at 35°, 1 mm. high to ensure sound anchorage to the bitumen and to the bituminous membrane;
 - a central body with 2 different thicknesses which act both a joint and a seal and is 38 mm x 38 mm x 25 linear metres.
- The joint is extruded using a specially stabilized thermoplastic but rubbery type material which is compatible with bitumen and with bituminous membranes. This material has a high mechanical resistance both in expansion and contraction, as well as to low temperatures, and is highly resistant to breakdown by the sun, ozone and other chemical and atmospheric agents.
- Art. 692 has the same characteristics as as Art. 690 with the exception of the lateral wings which are smooth to facilitate welding to PVC membranes.

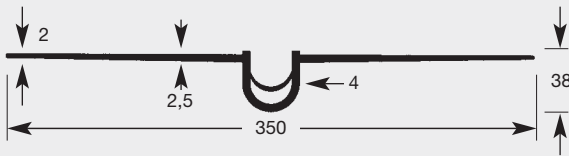
N.B.: PREPARATORY WORK BEFORE INSTALLING THE ELASTIC JOINT.

- Lay the joint with the bulb on the top.
- Leave in sunlight for 15-20 minutes so that any creases or similar caused during packaging or shipping in the materials are eliminated. This enables the joint to return to its natural state and return to its initial shape.



MECHANICAL AND PHYSICAL CHARACTERISTICS - Art. 690

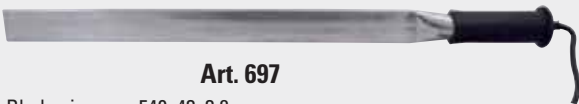
Description	Test method	Units	Value
Density	ASTM D 792	g/cm ³	1.13
Hardness 15°	ASTM D 2240	Shore A	70
Tear strength without notch	ASTM D624	KN/m	30
Tensile modulus 100% elongation	ASTM D 638	MPa	2.5
Tensile modulus 300% elongation	ASTM D 638	MPa	3.2
Tensile strength	ASTM D 638	MPa	5.0
Elongation at break	ASTM D 638	%	580
MFI (190°C, 49.05 N)	ASTM D 1238	g/10 min	5.10



MECHANICAL AND PHYSICAL CHARACTERISTICS - Art. 692

Description	Test method	Units	Value
Specific weight	DIN 53457	Kg/dm ³	1.30
Hardness shore A	DIN 53505 ASTM D2240	Shore A	68
Flow index	ASTM D1238 N. 21. 18 temp. °C 190	g/600 s	13.0
Tear Strength	DIN 53515 ASTM D624 Without notch	KN/m	53
Ultimate elongation		%	310
Abrasion resistance	DIN 53516	mm 3	155
Working range		°C	80
Cold resistance		°C	-35

BLADE HEATER ELEMENT FOR THE MANUAL WELDING OF JOINTS, WATERSTOPS, PVC SHEETS AND SIMILAR



Art. 697

Blade size mm. 540x43x3,8
220 V - 50 Hz single phase power feed
Power rating 465 Watt

INSTALLATION METHOD (SANDWICH SYSTEM)

The area where the joint is to be installed shall be 38 to 42 mm wide, 40 mm deep, and free from debris and impurities.

- Apply a coat of primer 50 to 60 cm wide on either side of the joint.
 - Torch apply a 30 cm wide strip of APP type membrane to the underside of either wing of material while the joint is in position.
 - Ensuring that the joint is correctly positioned proceed to raise the membrane which has been welded to either wing and torch apply the same to the deck, making sure that a roller or similar is used to press the membrane into position.
 - Torch apply a 30 to 40 cm wide strip of membrane over the upper surface of the two wings and fully bond to the underlying membrane and deck.
- For other installation systems: see drawing.

N.B.: When using a roofing torch to heat the membrane avoid direct contact of the flame with the joint itself.

JOINTING OF THE ELEMENTS

The various profiles can be jointed on site by welding the extremities using a Leister welder or a hot blade, "thermal sword" (Art. 697).

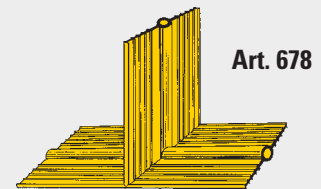
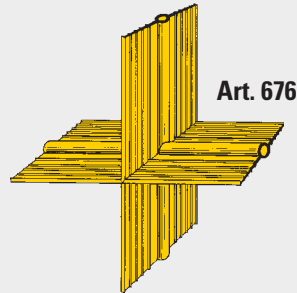
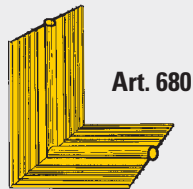
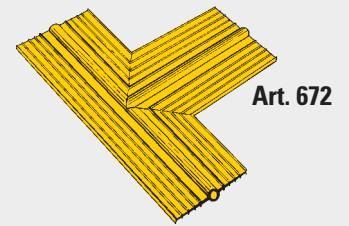
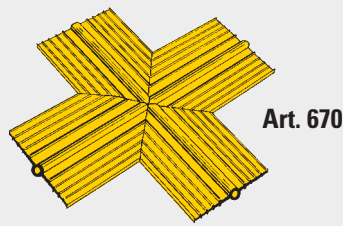
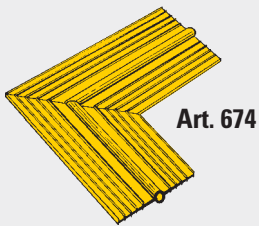
If using a hot blade proceed as follows:

- The edges of the joint must be perfectly squared off;
- Insert the hot blade between the pieces to be jointed and melt the material for approximately 2 mm each side, then press the edges together;
- Hold the pieces in position for approximately 2 minutes but then wait until the joint has cooled before handling.

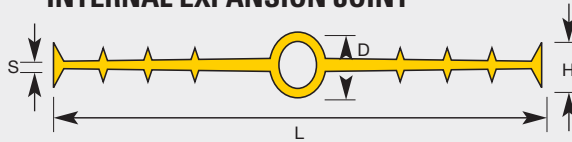
WATERSTOPS JOINTS



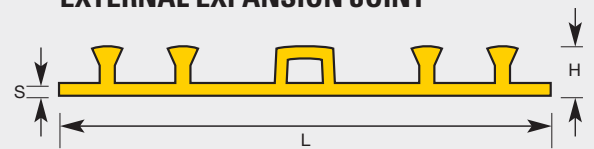
THE FOLLOWING SPECIAL PIECES ARE AVAILABLE FOR ALL OF THE JOINTS



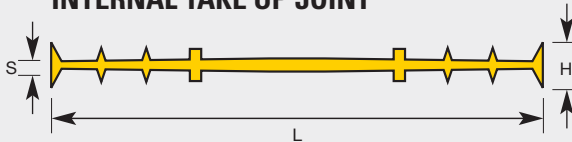
INTERNAL EXPANSION JOINT



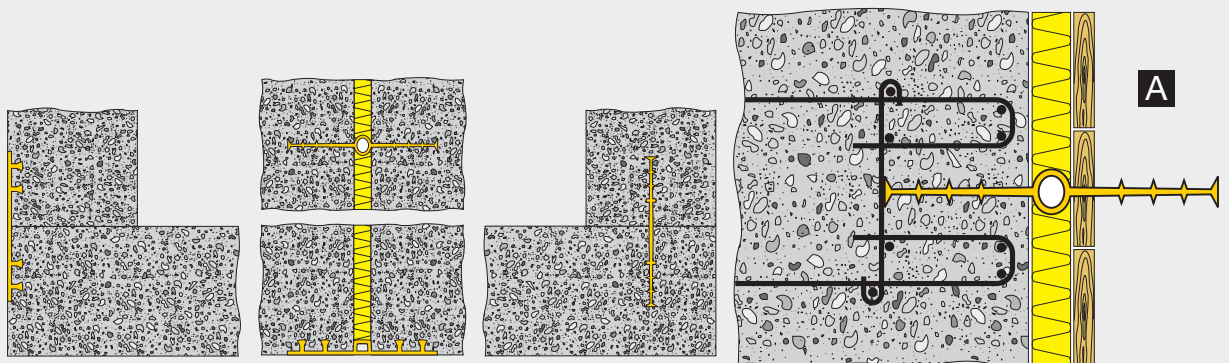
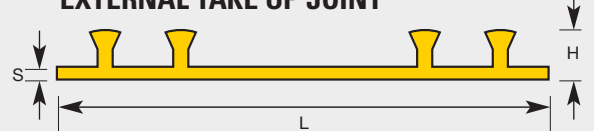
EXTERNAL EXPANSION JOINT



INTERNAL TAKE UP JOINT



EXTERNAL TAKE UP JOINT



WATERSTOPS JOINTS

EXPANSION AND SEAL JOINTS FOR CAST-IN-SITU REINFORCED CONCRETE

The joints shown are high quality flexible, stabilized PVC profiles for use as take up joints, or vertical and horizontal expansion joints in reinforced concrete guaranteeing a perfect watertight seal even under pressure, or where there are air gaps or foreign bodies in the joints required when building dams, foundations, canals, tunnels and similar. The PVC used guarantees a high ageing resistance, as well as excellent resistance to alkalies, brackish water, and acidic environments. Should the structure be continuously exposed to hydrocarbons or vegetable based alkalies, a special type of PVC can be supplied.

The various types of waterstop joints are available to resist the high stresses the material will be subjected to during settlement of the building, as well as it's normal expansion and contraction due to temperature fluctuations.

ART.	L	H	S	D	ROLLS
600	150	11	2,5	26	ML. 25
602	200	11	2,5	25	ML. 25
604	220	11	2,5	28	ML. 25
606	250	11	3,0	32	ML. 25
608	300	12	3,0	32	ML. 25
610	360	12	3,0	40	ML. 15
612	440	15	4,0	50	ML. 15

ART.	L	H	S	ROLLS
650	150	11	2,4	ML. 50
652	200	11	2,4	ML. 50
654	220	11	2,5	ML. 50
656	250	12	2,5	ML. 25
658	300	13	2,5	ML. 25

ART.	L	H	S	ROLLS
630	230	21	4	ML. 25
632	280	23	4	ML. 25
634	320	24	4	ML. 25
636	360	28	4	ML. 25

ART.	L	H	S	ROLLS
640	150	20	3	ML. 50
642	180	20	4	ML. 25
644	240	20	4	ML. 25

MECHANICAL AND PHYSICAL CHARACTERISTICS

Description	Test method	Units	Value
Specific weight	DIN 53457	Kg/dm ³	1.23
Shore "A" hardness	DIN 53505 ASTM D2240	Sh A	67
Flow index	ASTM D1238 N. 21. 18 temp. °C 190	g/600 s	60.0
Tear resistance	DIN 53515 ASTM D624 Without notch	KN/m	40
Ultimate elongation		%	320
Abrasion resistance	DIN 53516	mm ³	165
Working temperature		°C	70
Cold resistance		°C	-35

INSTALLATION METHOD

If being used as a take up joint, after the first part of the structure has been cast the next part will be cast against the seal, taking care that there is no air trapped, and that the seal is flat and correctly positioned. If, however, an expansion joint is being formed, a seat should be prepared in the first part of the structure. The next stage is to fill the gap with rot-proof elastic material to fill the bulb required, or to the desired size.

If the joint is to be a waterstop situated on the outside of the structure, the joint must be nailed in position if the shuttering is wooden. If the shuttering is metal, then the seal must be anchored to the reinforcing bars using soft wire every 30 to 50 cm, so that the seals are not moved or misshapen by the pressure of the concrete being poured, or by vibrations during compaction.

Joints in the seal material are formed by heat welding the two extremities using a hot air gun or a special blade heater element at 200°C.

SIZING

The width of the waterstops must be the same as the thickness of the reinforced concrete wall. For example: for a 200 mm thick wall a 200 mm wide waterstop seal will be used.

JOINTING OF THE ELEMENTS

The various profiles can be jointed on site by welding the extremities using a Leister welder or a hot blade, "thermal sword".

If using a hot blade proceed as follows:

- The edges of the joint must be perfectly squared off;
- Insert the hot blade between the pieces to be jointed and melt the material for approximately 2 mm each side, then press the edges together;
- Hold the pieces in position for approximately 2 minutes but then wait until the joint has cooled before handling.

ITALPROFILI®

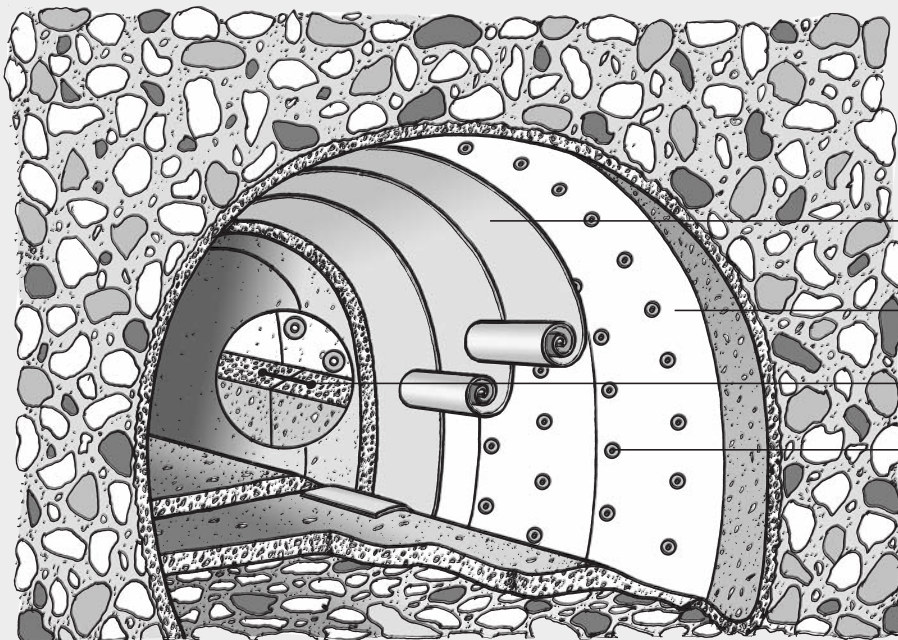
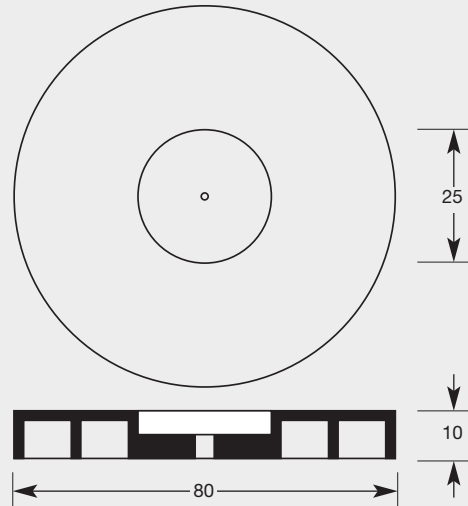
VARIOUS



DISCS FOR WATERPROOFING INSTALLATIONS ON TUNNELS



Art. 2200 PVC
Art. 2201 ECB
Art. 2203 TPO



PVC membrane

Non-woven fabric

WATERSTOPS take up joint

PVC disc, Art. 2200

The **DISCS** shown allow difficult areas (such as tunnels etc.) where PVC, ECB and TPO membranes are to be installed to be adequately prepared, whatever the application angle.

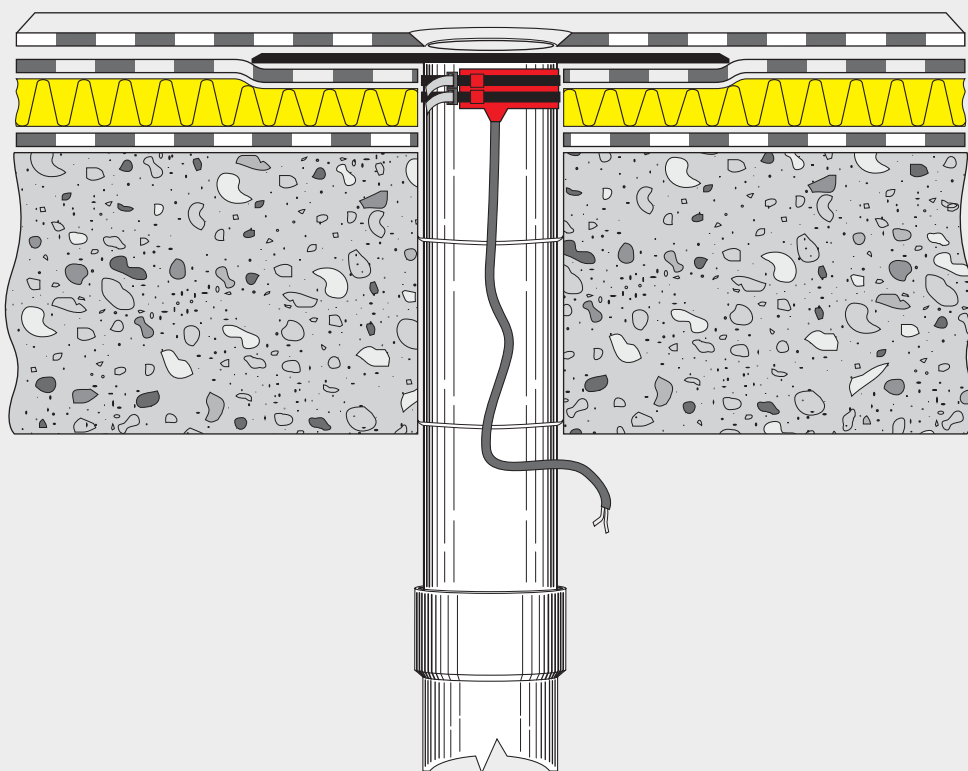
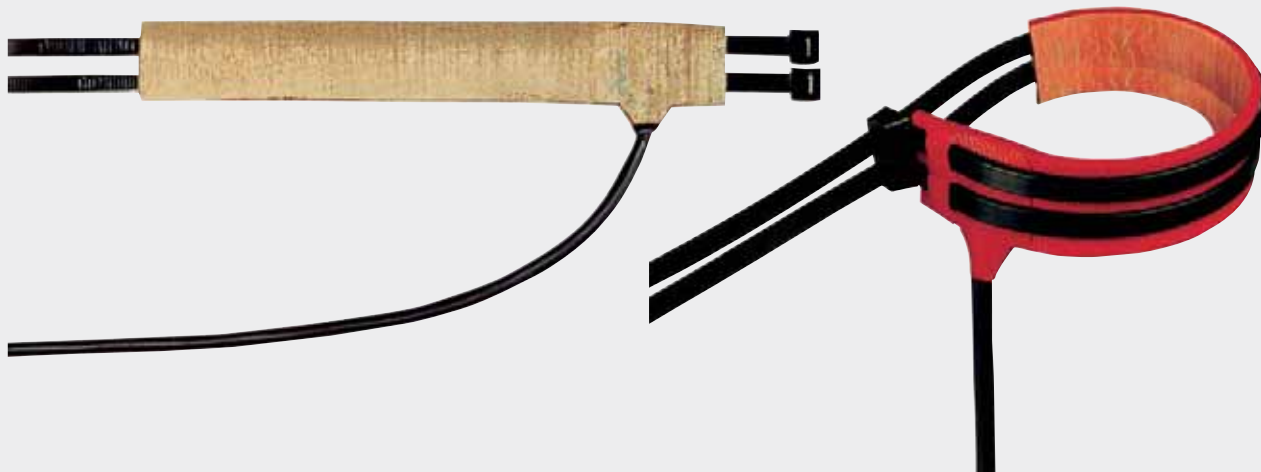
The discs are fastened to the surface without predrilling using a compressed air nail gun.

The discs are used to fasten diffusion material such as non-woven fabrics or similar, and as anchor point for PVC or ECB and/or TPO membranes which are attached using a hot air gung.

EQUIPMENT AND MATERIALS NEEDED TO INSTALL THE DISCS

- Compressed air gun type "PNEUTEK®" fitted with compressor and pressure regulator.
- Anchors (nails) having an 8 mm diameter head, a shank diameter of 3.8 to 4.3 mm, and a shank length of 40 to 70 mm.
- The length of the shank depends on the material where the disc is to be fastened.
- 25 mm diameter stress plate having a central hole of 3.8 to 4.5 mm diameter.
- Ribbed PVC disc diameter 80 mm and 10 mm thick having a 25 mm shallow central portion with a central hole. 4 pieces are required per square metre.
- Hot air gun type "Leister" for welding the membrane to the discs.

SELF-REGULATION WARMING-UP SYSTEM



ITALPROFILI'S® Warming-up System is the complete answer in overcoming the freezing of outlets and pipes of all types, whether fitted on new applications or as a retro fit product. Installation is quick and easy as the tapes need only to be placed around the pipe and tightened in place using the fasteners.

The tapes run on 220 volt without the use of a transformer.

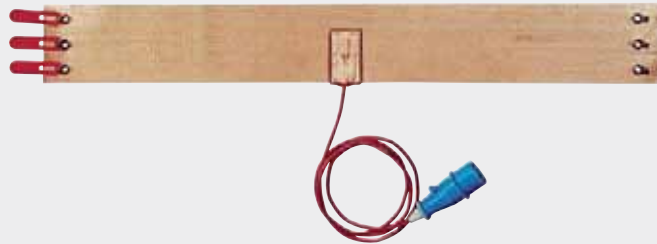
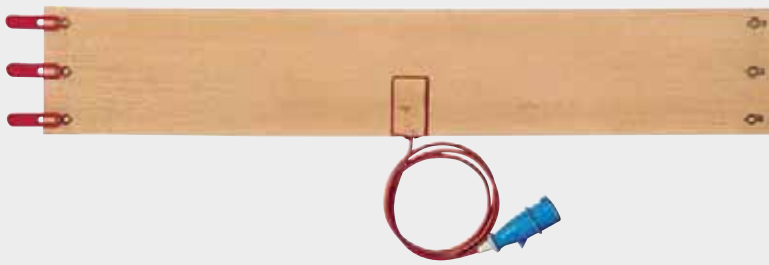
APPLICATIONS

- Roof drains in various thermoplastic materials: IGOM, PVC, PP, HDPE.
- On PVC, PP, HDPE and various metal drain pipes.

TECHNICAL DATA SHEET

- Flexible laminate heater element 230 Volts 8 Watt, maximum temperature (175), element temperature 80°C, tested to EN 60335-1 (except paragraph 30).
- Reference technical standard CEI EN 60335-1:2004 + V1, V2, V3.
- Insulated with vulcanised silicone rubber.
- External glass fabric covering on one side.
- 2 Polyamide straps 6/6 mm. 750x7,8.
- 2 phase electric cable diam. 6,5 mm. x 500 mm. with vulcanized silicone rubber insulation.
- Dimensions: length 220x32 mm. thickness 3,4 mm.

GAS CYLINDER HEATER



GAS CYLINDER BAND

The gas cylinder band is an ideal way of eliminating wastage of gas. It is an electrical resistance fitted with a thermostat which under adverse weather conditions (low temperatures) keeps the gas pressure constant and also allows the cylinder to be used until completely empty.

DAMAGE RISKS TO THE BAND

- a - The band must not be bent to less than $R^\circ 10$.
- b - The cable attached to the band must not be subjected to being pulled at more than 8 to 10 Kg.
- c - The band must not have any weight or sharp objects placed on the heater area.
- d - Store in a dry place.

PROPER STORAGE

After use, the band and all of its component parts should be rolled up to a diameter of 15-20 cm. in its original box.

INSTRUCTIONS FOR USE

- 1 - Make sure that the outer surface of the cylinder is free from rust, dust and other deposits.
- 2 - Position the band around the cylinder with the joint above the welded seam.
- 3 - Hold in position using the central fastener and regulate the fit around the cylinder then close the other 2 fasteners.
- 4 - The cable should preferably be placed towards the bottom (see drawing).
- 5 - To avoid damaging the electrical cable it is advisable to fasten the cable to the cylinder using electricians straps or similar.
- 6 - Switch on 4 to 5 minutes to pre-heat before using the gas.
- 7 - If the cylinder is not being used for several hours, unplug the unit.

TECHNICAL DATA SHEET

- Flexible laminate heater element 230 Volts 400 and/or 700 Watt, maximum working temperature 175°C, tested to EN 60335-1 (except paragraph 30).
- EU Certificate (European Standard EN 55014-1 A1, 61000-3-2, 61000-3-3).
- Insulated with vulcanised silicone rubber.
- Glass fabric covering on the outer surface.
- Working thermostat 70°C, 100.000 cycles.
- 2 phase electric cable with vulcanised silicone rubber insulation diam. 7 mm., 1500 mm. long.
- 6 metal clips 8,7x8,5 mm.
- 3 silicone elastic straps 24x87 mm.
- 16A - 6h plug 200+250 volt.
- Dimensions: length 1.000x135 mm. Art. 119.2.
- Dimensions: length 1.130x200 mm. Art. 119.3.
- Dimensions: length 950x135 mm. Art. 119.4.
- Dimensions: length 930x145 mm. Art. 119.5.

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ITALPROFILI® COMPANY CERTIFIED UNI EN ISO 9001:2008





DET NORSKE VERITAS QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No. **CERT-00621-95-AQ-VEN-SINCERT**

Si attesta che / This certifies that
Il sistema di gestione per la qualità di / the quality management system of

ITALPROFILI S.r.l.

Via Enrico Fermi, 2 - 30020 Torre di Mosto (VE) - Italy

È conforme ai requisiti della norma per i sistemi di gestione per la qualità
Conforms to the quality management systems standard

UNI EN ISO 9001:2008 (ISO 9001:2008)

Questa certificazione è valida per il seguente campo applicativo:
This certificate is valid for the following products or services:

(Ulteriori chiarimenti riguardanti lo scopo e l'applicabilità dei requisiti della normativa si possono ottenere consultando l'organizzazione certificata)
(Further clarifications regarding the scope and the applicability of the requirements of the standard(s) may be obtained by consulting the certified organization)

**Progettazione e produzione di accessori in gomme sintetiche, PVC, ECB, PP
per impermeabilizzazioni civili ed industriali**

**Design and production of fittings made of synthetic rubber, PVC, ECB, PP
for civil and industrial waterproofing**

Data Prima Emissione
First Issue Date
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Luogo e data
Place and date
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Settore EA : 14

Stefano Sartor
Lead Auditor



Data di scadenza
Expiry Date
2012-09-24

per l'Organismo di Certificazione
for the Accredited Unit
DET NORSKE VERITAS ITALIA S.R.L.

Vittore Marangon
Management Representative

La validità del presente certificato è subordinata a sorveglianza periodica (ogni 6, 9 o 12 mesi) e al riesame completo del sistema con periodicità triennale
The validity of this certificate is subject to periodical audits (every 6, 9 or 12 months) and the complete re-assessment of the system every three years
Le aziende in possesso di un certificato valido sono presenti nella banca dati sul sito www.dnv.it e sul sito Sincert (www.sincert.it) - All the companies with a valid certificate are online at the following addresses: www.dnv.it and www.sincert.it

...ITALPROFILI IN THE WORLD.

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All dimensions are in millimeter and have a tolerance of + 2.

ITALPROFILI® IN THE WORLD





Roofing accessories and technology

ITALPROFILI

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