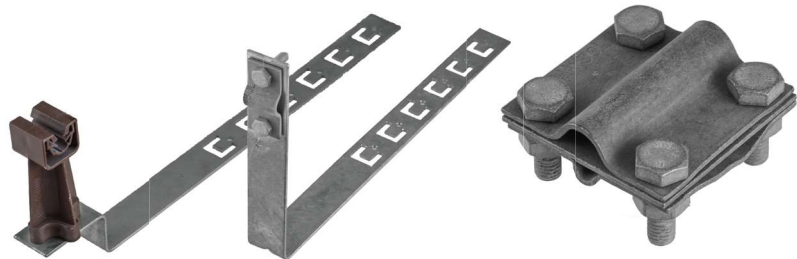


One of the key product groups in the offer of PAWBOL S.A. is a group of lightning protection systems. PAWBOL S.A. is developing and manufacturing that category for over 30 years now. The high quality of our products and services is confirmed by the ISO 9001:2008 certificate, which ensures the level of compliance of the offer with all required standards. PAWBOL S.A. company has professional production facilities equipped with modern machinery, and is always using only the high quality steel grade to produce lightning protection system elements. Moreover, products are subject to regular quality control.

PAWBOL S.A. product offer consists of a wide range of lightning protection installation elements divided into few subgroups:

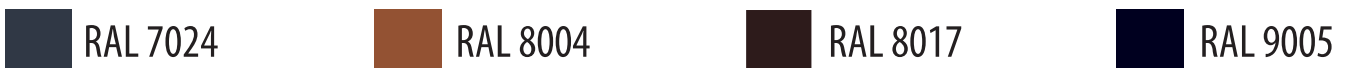
- » Connectors (through, gutter, cross, control)
- » Holders (tile, roof, ridge, tension, universal)
- » Earthing rods
- » Lightning masts
- » Lightning protection boxes
- » Additional accessories for lightning protection installations



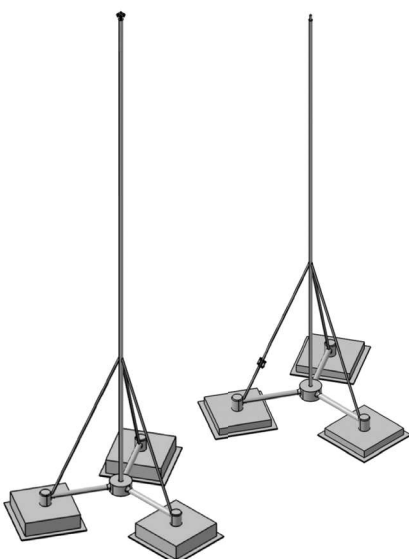
Elements of the lightning protection system in the offer of PAWBOL S.A. are available in a hot-dip galvanized version, which guarantees an anti-corrosion coating that is resistant to mechanical damage, abrasion, corrosion, impacts and has very good adhesion to the substrate. The hot-dip zinc coating on the elements of the lightning protection system ensures protection of the steel for many years. The components do not require maintenance, because zinc, as a metal, is more active than steel and oxidizes itself, thus protecting the actual material. i.e. steel.

All elements of the lightning protection system available in the offer of PAWBOL S.A. are in compliance with the requirements contained in the standards: PN-EN 62561-1, PN-EN IEC 62561-2, PN-EN 62305-1 and PN-EN 62305-3

PAWBOL S.A. offers selected lightning protection system elements in four RAL colors - 7024, 8004, 8017, 9005. The elements available in the colors include: gutter connectors, angle brackets, ridge tile connectors, roof tile connectors, roof connectors, universal connectors. Delivery time: 5 days from the order date.



Among the products in the group of lightning protection installation elements, PAWBOL S.A. offers a box for a lightning connector, the design of which has been registered in the Patent Office under the number Wp-19870. The modular design of the box allows the quick and easy assembly, even in an unusual position, and it provides very effective protection of the control connector of the lightning protection system against atmospheric conditions.

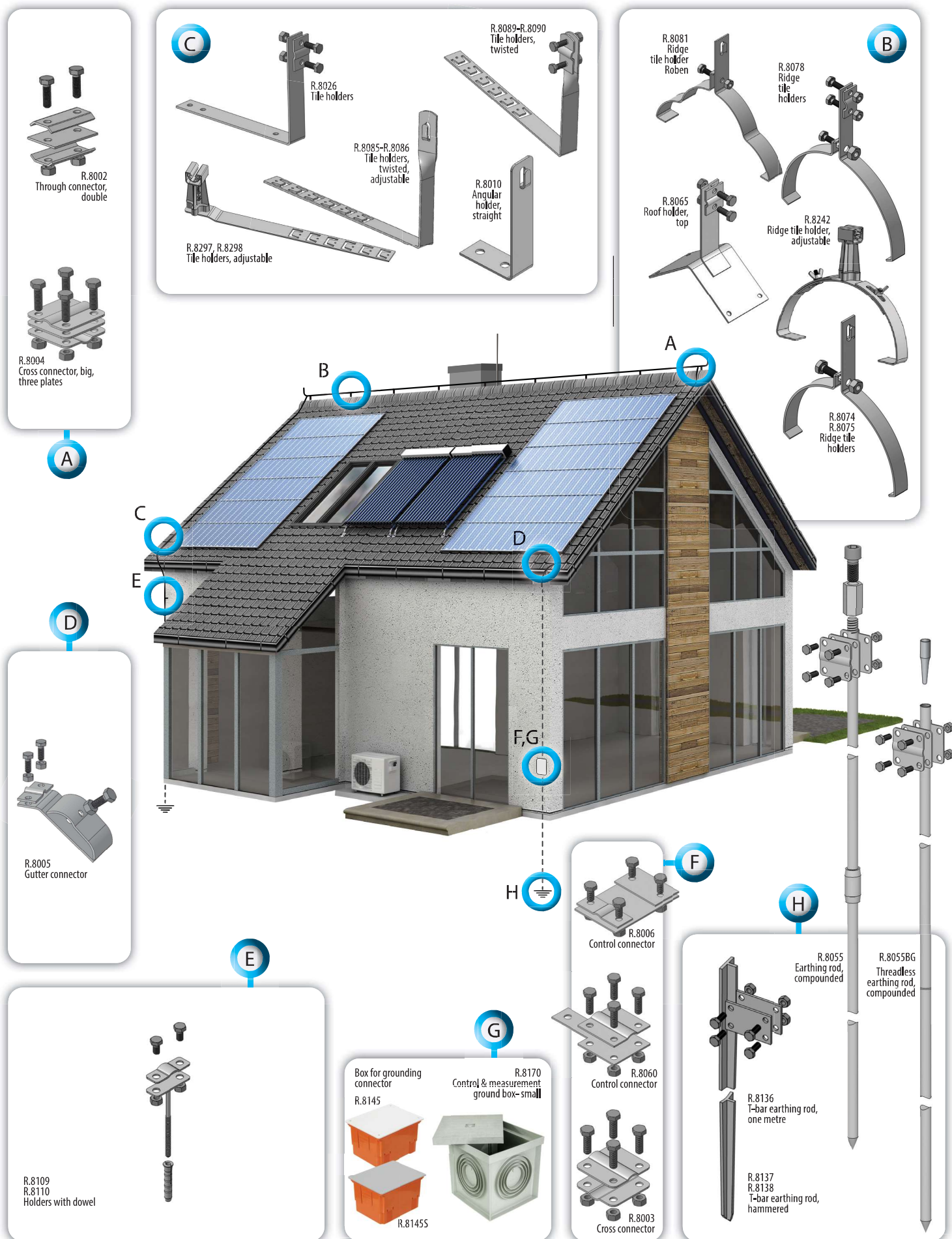


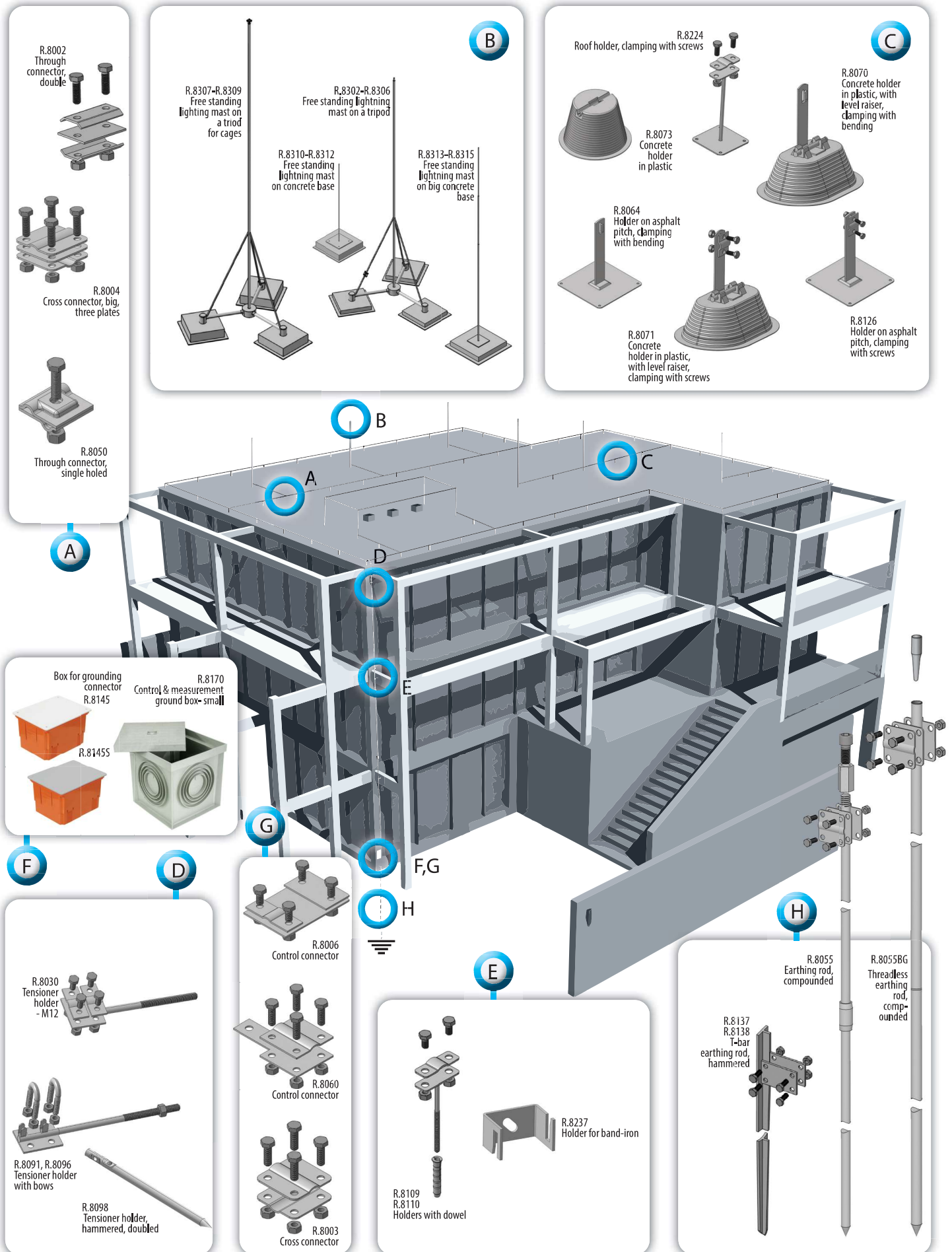
PAWBOL S.A. company provides high-quality products:

- » Compliant with the EU standards
- » Protected against corrosion - thanks to hot-dip galvanizing
- » Easy to assemble
- » With highly attractive price

**Our products. Your safety.**

**3 years warranty on lightning protection installation elements made in a hot-dip galvanized version**







BOX FOR GROUNDING CONNECTOR

 NORM PN-EN-62561






The lightning protection connector box made of PS material is characterized by high functionality and customizability. The box is designed for flush mounting of the lightning protection system control connector. The box itself consists of two basic elements connected together. The design of the box allows it to slide in and out, resulting in a smooth height adjustment, so it may be use for different wall thicknesses, which is particularly effective for insulated walls. The box is suitable for installation in insulated walls up to 20 cm thick. The lid of this box is made of polystyrene. The cover, fixed with steel screws, effectively protects the connector from unauthorized access and accidental contact with the connector. The cover material is UV resistant, so it can be safely installed on sunny walls. The modular design of the box allows for quick and easy installation, even in unusual locations. The installed box provides very effective weather protection for the control connector of the lightning protection system.

Box for grounding connector



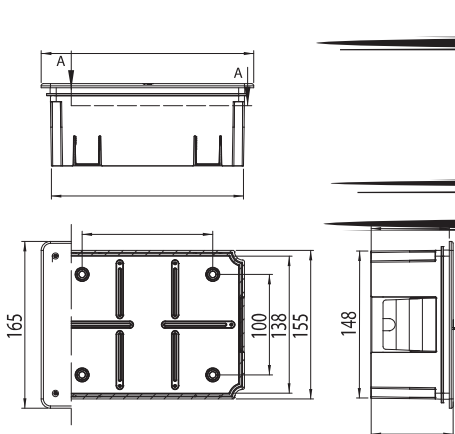
● R.8145

● R.8145S

 H	 D	 W	 IP	 #
82-150 mm	165 mm	210 mm	IP20	1

Depth adjustment range R.8145: 82-150mm






R.8145 - dimensions



Box for grounding connector

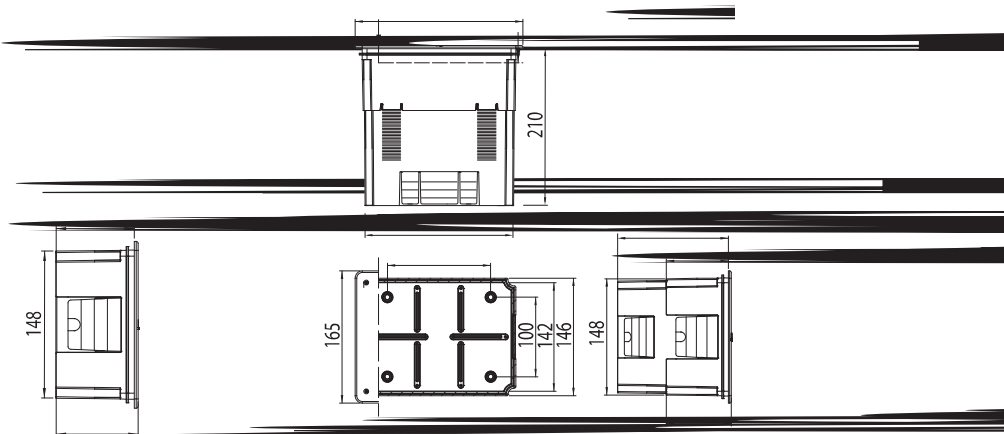


● R.8147

 H	 D	 W	 IP	 #
149-210 mm	165 mm	210 mm	IP20	1

Depth adjustment range R.8147: 149-210mm

R.8147 - dimensions





## BOX FOR GROUNDING CONNECTOR

 NORM PN-EN-62561

- Advantages of box for grounding connector
- UV resistant cover
- Effective protection of the connector against weather conditions
- Simple installation of the control connector
- Perfect solution for installation in walls up to 15 cm thanks to smooth depth adjustment
- The simple design ensures comfortable installation

Many new applications for the boxes in the versions with doors.

Now in addition to protect the connector you can use lightning protection boxes with doors, e.g. additional protection and installation of BETA surface-mounting sockets.




Socket BETA is not part of the set - it is shown for demonstration purposes

Box for grounding connector



● R.8144

 H	 D	 W	 IP	 #
79-141mm	145 mm	175 mm	IP20	1

Box for grounding connector with doors



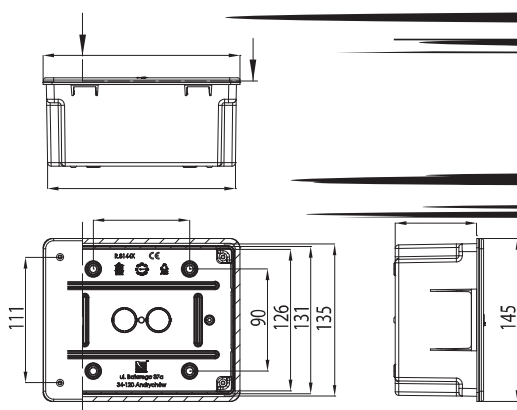
● R.8144D

 H	 D	 W	 IP	 #
83-145 mm	150 mm	180 mm	IP20	1

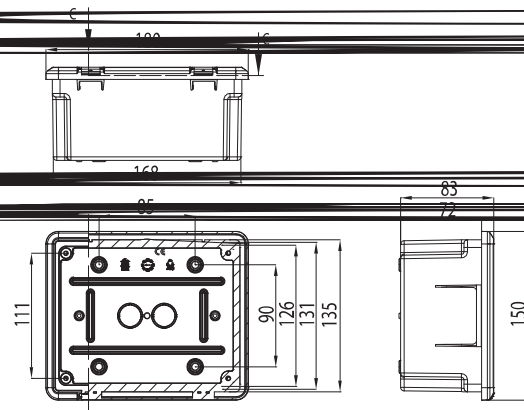
Depth adjustment range: R.8144: 79-141mm

Depth adjustment range: R.8144D: 83-145mm

R.8144 - dimensions



R.8144D - dimensions



## THROUGH CONNECTORS

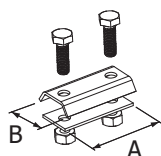
 NORM PN-EN-62561-1

Through connectors are used to connect lightning wire with wire. They are made from 2 mm thick, hot-dip galvanized steel plates.



## R.8001

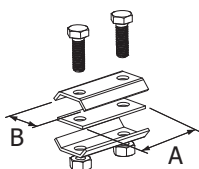
A / B = 50 / 40 mm  
For wire: Ø8, Ø10 mm



Through connector, Single  
Clamping with 2 screws M8

## R.8002

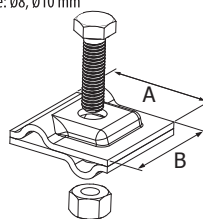
A / B = 50 / 40 mm  
For wire: Ø8, Ø10 mm



Through connector, Double  
Clamping with 2 screws M8

## R.8050

A / B = 42 / 42 mm  
For wire: Ø8, Ø10 mm



Through connector, single holed  
Clamping with 1 screws M10



## CROSS CONNECTORS

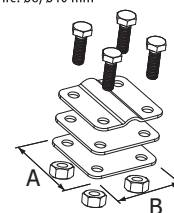
 NORM PN-EN-62561-1


Cross connectors are used for connections  
wire - wire, wire - hoop, hoop - hoop.

They are available in different versions  
made of 2 mm thick steel sheet.  
Connected with 4 M8 (M10) screws.

## R.8295

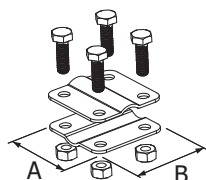
A / B = 55 / 55 mm  
Distance between screws: 30 mm  
For wire: Ø8, Ø10 mm



Universal connector  
Three plates 4 x M8

## R.8003

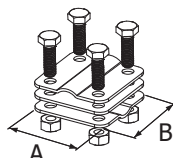
A / B = 65 / 65 mm,  
Distance between screws: 42 mm,  
For wire: Ø8, Ø10 mm



Cross connector, big  
Two plates, 4 x M8

## R.8004

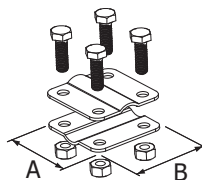
A / B = 65 / 65 mm  
Distance between screws: 42 mm  
For wire: Ø8, Ø10 mm



Cross connector, big  
Three plates, 4 x M8

## R.8051

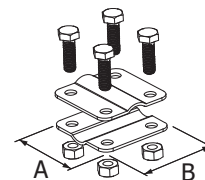
A / B = 70 / 70 mm  
Distance between screws: 40 mm  
For wire: Ø8, Ø10 mm



Large cross connector, Two plates, 4 x M10  
Sheet thickness: 2 mm, Screw height: 37 mm

## R.8052

A / B = 55 / 55 mm  
Distance between screws: 30 mm  
For wire: Ø8, Ø10 mm



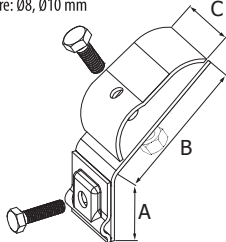
Cross connector, small  
Two plates, 4 x M8

## GUTTER CONNECTORS

 NORM PN-EN-62561-1

 R.8005A

A / B / C = 45 / 75 / 45 mm  
For wire: Ø8, Ø10 mm

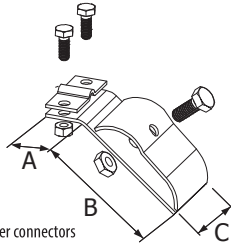


Gutter connectors  
Clamping with 1 screw M8, 1 screw M10

Gutter connectors are used to connect gutters with lightning wire. They are made from 2 mm thick, hot-dip galvanized, steel plates.

 R.8005

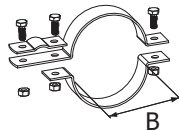
A / B / C = 25 / 75 / 45 mm  
For wire: Ø8, Ø10 mm



Gutter connectors  
Clamping with 2 screws M6

 R.8229

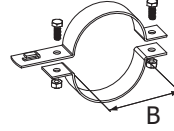
B = 100 mm  
For wire: Ø8, Ø10 mm



Holder for drainpipe  
Clamping with 2 screws M6

 R.8231

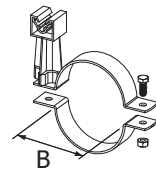
B = 100 mm  
For wire: Ø8, Ø10 mm



Holder for drainpipe  
Clamping with bending

 R.8233

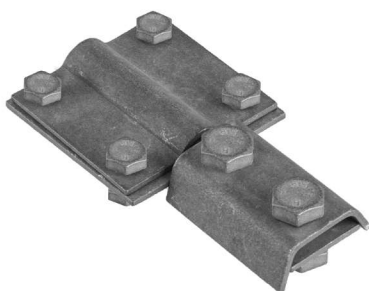
B = 100 mm  
For wire: Ø8 mm



Holder for drainpipe

## CONTROL CONNECTOR

 NORM PN-EN-62561-1

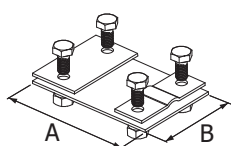


Control connectors are used for quick and efficient measurement of earthing resistance to check correctness operation of the entire system.

For connections of connectors, made of 2mm thick hot galvanized metal sheet, a M6 and M8 screws are being used.

 R.8006

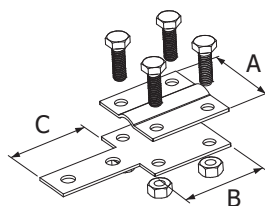
A / B = 100 / 65 mm  
For wire: Ø8, Ø10 mm



Control connector  
Clamping with - 4 screws M8

 R.8060

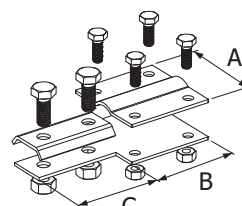
A / B / C = 57 / 57 / 57 mm  
For wire: Ø8, Ø10 mm



Control connector  
Clamping with - 4 screws M8

 R.8061

A / B / C = 57 / 57 / 57 mm  
For wire: Ø8, Ø10 mm



Control connector  
Clamping with - 4 screws M6, 2 screws M8



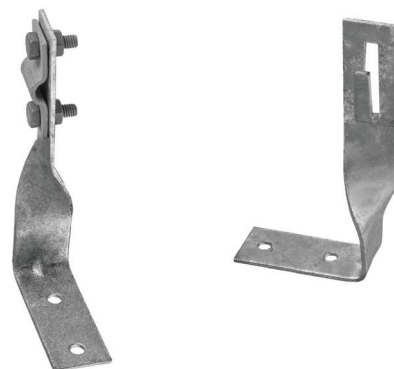


## ANGULAR HOLDERS

 NORM PN-EN-62561-1

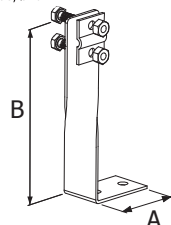
Angular holders are used for leading lightning wire above protected area. They are made from 2 mm thick, hot-dip galvanized steel plates.

The lightning wire is mounted to holder with bending, or with screws.



R.8007

A / B = 60 / 120 mm  
For wire: Ø8, Ø10 mm

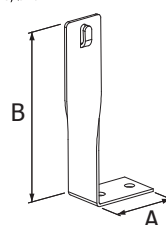


Angular holder, twisted  
Clamping with - 2 screws M6



R.8008

A / B = 60 / 120 mm  
For wire: Ø8, Ø10 mm

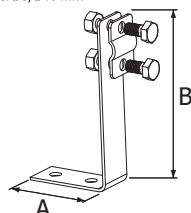


Angular holder, twisted  
Clamping with bending



R.8009

A / B = 60 / 120 mm  
For wire: Ø8, Ø10 mm

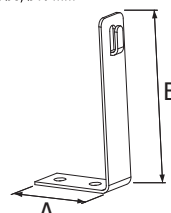


Angular holder  
Clamping with - 2 screws M6



R.8010

A / B = 60 / 120 mm  
For wire: Ø8, Ø10 mm

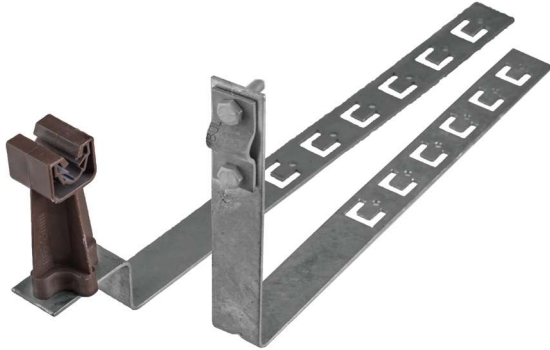


Angular holder  
Clamping with bending

## TILE HOLDERS



NORM PN-EN-62561-1



Tile holders are used to attach lightning wire to roofs covered with tiles. These handles are made of 2mm thick, hot-dip galvanized steel sheet.

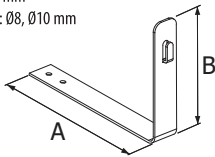
They are attached to the battens by nailing or hooking.

A = 160 mm R.8018

A = 280 mm R.8019

A = 400 mm R.8020

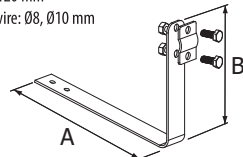
B = 120 mm  
For wire: Ø8, Ø10 mm



Tile holders, clamping with bending

A = 400 mm R.8026

B = 120 mm  
For wire: Ø8, Ø10 mm

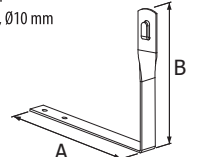


Tile holders, clamping with 2 screws M6

A = 160 mm R.8021

A = 400 mm R.8023

B = 120 mm  
For wire: Ø8, Ø10 mm



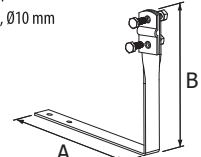
Tile holders, twisted, clamping with bending

A = 160 mm R.8027

A = 280 mm R.8028

A = 400 mm R.8029

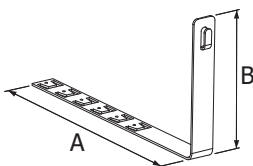
B = 120 mm  
For wire: Ø8, Ø10 mm



Tile holders, twisted, clamping with 2 screws M6

R.8083

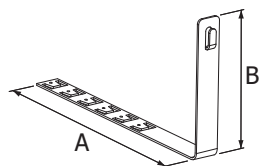
A / B = 280 / 135 mm  
For wire: Ø8, Ø10 mm



Tile holder, adjustable,  
Clamping with bending

R.8084

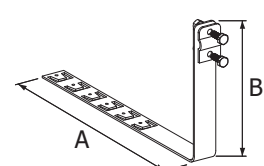
A / B = 420 / 135 mm  
For wire: Ø8, Ø10 mm



Tile holder, adjustable,  
Clamping with bending

R.8088

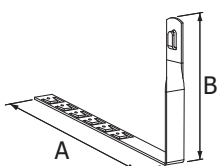
A / B = 420 / 135 mm  
For wire: Ø8, Ø10 mm



Tile holder, adjustable,  
Clamping with 2 screws M6

R.8085

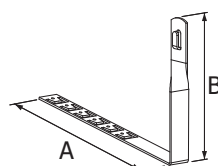
A / B = 280 / 135 mm  
For wire: Ø8, Ø10 mm



Tile holder, twisted  
adjustable, clamping with bending

R.8086

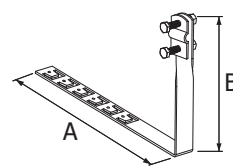
A / B = 420 / 135 mm  
For wire: Ø8, Ø10 mm



Tile holder, twisted  
adjustable, clamping with bending

R.8089

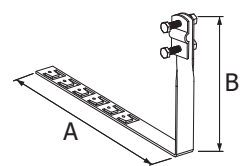
A / B = 280 / 135 mm  
For wire: Ø8, Ø10 mm



Tile holder, twisted  
adjustable, Clamping with 2 screws M6

R.8090

A / B = 420 / 135 mm  
For wire: Ø8, Ø10 mm

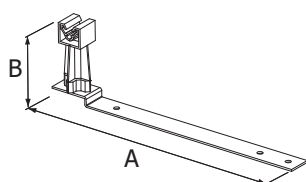


Tile holder, twisted  
adjustable, Clamping with 2 screws M6



R.8094

A / B = 420 / 100 mm  
For wire: Ø8 mm

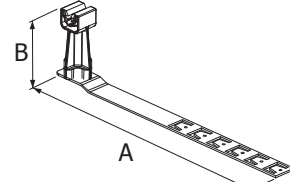


Tile holder



R.8297

A / B = 325 / 100 mm  
For wire: Ø8 mm

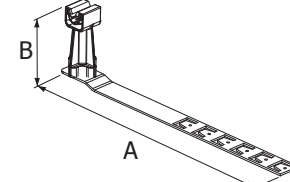


Tile holder, adjustable



R.8298

A / B = 420 / 100 mm  
For wire: Ø8 mm



Tile holder, adjustable

## ROOF HOLDERS



NORM PN-EN-62561-1

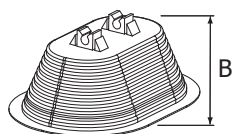
Roof holders are used to guide the lightning wire on flat and sloping roofs. They are made of plastic and 2 mm thick hot galvanized sheet metal.

The lightning wire is attached to the holder with screws or a bent clamping mechanism, and for plastic versions, it is fixed by inserting it into the groove.



R.8067

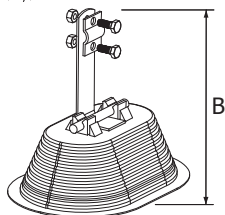
B = 60 mm  
For wire: Ø8 mm



Concrete handle in plastic  
Base made of concrete and plastic

R.8071

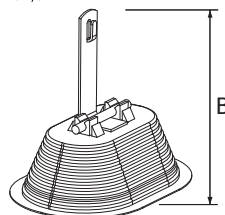
B = 200 mm  
For wire: Ø8, Ø10 mm



Concrete handle in plastic with an extension  
Base made of concrete and plastic  
Clamping with 2 screws M6

R.8070

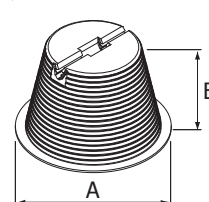
B = 200 mm  
For wire: Ø8, Ø10 mm



Concrete handle in plastic with an extension  
Base made of concrete and plastic  
Clamping with bending

R.8073

A = 150 mm, B = 80 mm  
For wire: Ø8 mm

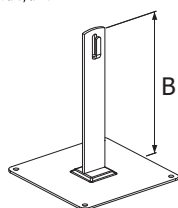


Concrete handle in plastic  
Base made of concrete, without plastic



R.8064

B = 120 mm  
For wire: Ø8, Ø10 mm

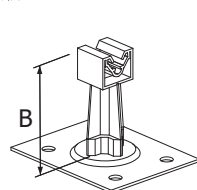


Holder on asphalt pitch,  
Clamping with bending



R.8072

B = 70 mm  
For wire: Ø8 mm

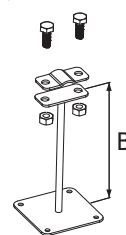


Holder on asphalt pitch



R.8224

B = 140 mm  
For wire: Ø8, Ø10 mm



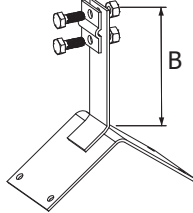
Roof holders, Clamping with 2 screws M6





R.8065

B = 110 mm  
For wire: Ø8, Ø10 mm

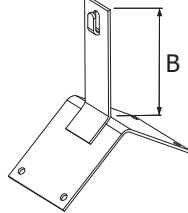


Roof holder, top,  
Clamping with 2 screws M6



R.8066

B = 110 mm  
For wire: Ø8, Ø10 mm

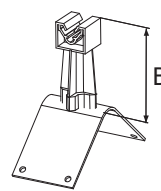


Roof holder, top,  
Clamping with bending



R.8236

B = 70 mm  
For wire: Ø8 mm

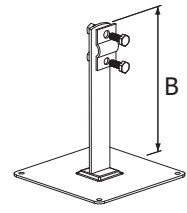


Roof holder, top



R.8126

B = 120 mm  
For wire: Ø8, Ø10 mm



Holder on asphalt pitch,  
Clamping with 2 screws M6

## UNIVERSAL HOLDERS



NORM PN-EN-62561-1



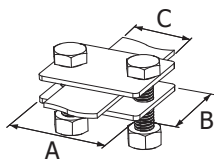
Universal holders are used for leading lightning wire and band iron sizes.

They are made from 2 mm thick, hot-dip galvanized steel plates. Those elements are being mounted on walls by hammering, or screwing using expansion bolts.



R.8015

A / B / C = 55 / 35 / 25 mm

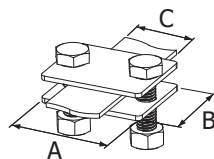


Holders for connecting band-iron  
C-25 mm, Clamping with 2 screws M8



R.8016

A / B / C = 65 / 35 / 35 mm

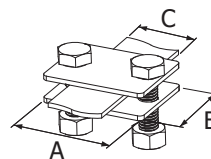


Holders for connecting band-iron  
C-30-35 mm. Clamping with 2 screws M8



R.8017

A / B / C = 80 / 55 / 40 mm

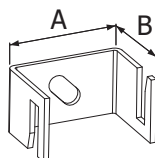


Holders for connecting band-iron  
C-40 mm



R.8237

A / B = 54 / 24 mm

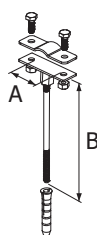


Clamp for band-iron

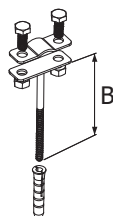


R.8299

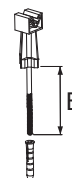
A / B = 40 / 160 mm

Holder for band-iron with expansion bolt M8,  
clamping with 2 screws M6

For wire: Ø8, Ø10 mm

Holder with expansion bolt M12  
Clamping with 2 screws M6

R.8278

B = 100 mm  
For wire: Ø8 mm

Holder with expansion bolt M8

B = 100 mm R.8109

B = 120 mm R.8110

B = 160 mm R.8045

B = 180 mm R.8046

B = 210 mm R.8047

B = 250 mm R.8114



## RIDGE TILE HOLDERS

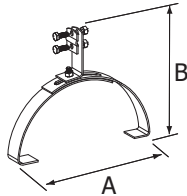


NORM PN-EN-62561-1



R.8146

A / B = 210 / 240 mm  
For wire: Ø8, Ø10 mm



Ridge tile holder, adjustable  
universal. Clamping with 2 screws M6

Ridge tile holders are used to guide lightning wire on the tops of tiled roofs.

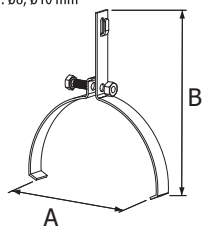
They are made of 2mm thick hot-dip galvanized sheet metal.

The lightning wire is attached to the ridge tile holder with the clamp or screws.  
Rebate holder, universal, thermo-diffusion galvanized,



R.8074

A / B = 230 / 240 mm  
For wire: Ø8, Ø10 mm

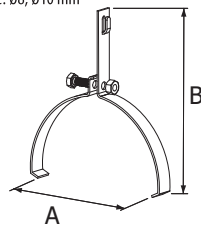


Ridge tile holder  
Clamping with bending



R.8075

A / B = 250 / 240 mm  
For wire: Ø8, Ø10 mm

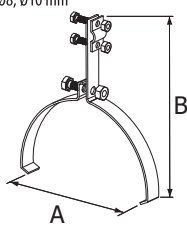


Ridge tile holder  
Clamping with bending



R.8077

A / B = 230 / 240 mm  
For wire: Ø8, Ø10 mm

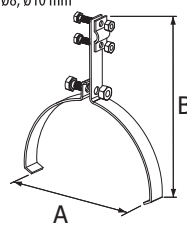


Ridge tile holder  
Clamping with 2 screws M6



R.8078

A / B = 250 / 240 mm  
For wire: Ø8, Ø10 mm

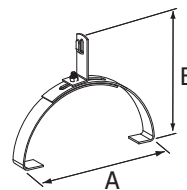


Ridge tile holder.  
Clamping with 2 screws M6



R.8079

A / B = 210 / 240 mm  
For wire: Ø8, Ø10 mm

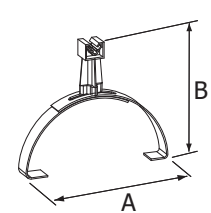


Ridge tile holder, adjustable, universal  
Clamping with bending



R.8080

A / B = 210 / 220 mm  
For wire: Ø8 mm

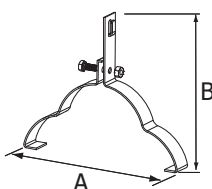


Ridge tile holder, adjustable, universal



R.8081

A / B = 210 / 240 mm  
For wire: Ø8, Ø10 mm

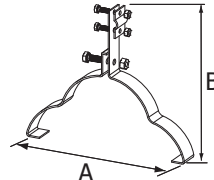


Ridge tile holder "Roben"  
Clamping with bending



R.8082

A / B = 210 / 240 mm  
For wire: Ø8, Ø10 mm

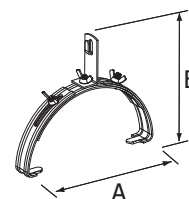


Ridge tile holder "Roben"  
Clamping with 2 screws M6



R.8241

A / B = 210 / 240 mm  
For wire: Ø8, Ø10 mm

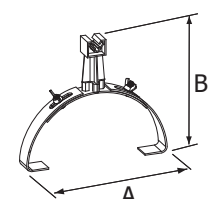


Ridge tile holder, adjustable max  
Clamping with bending



R.8242

A / B = 210 / 240 mm  
For wire: Ø8 mm



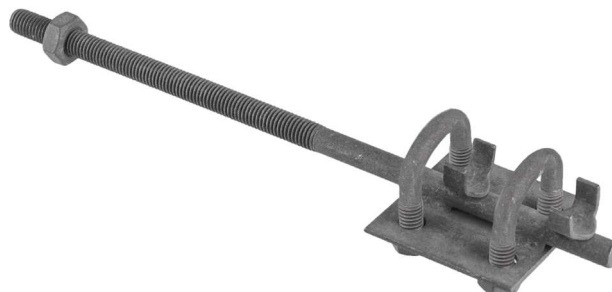
Ridge tile holder, adjustable max



## TENSIONER HOLDERS

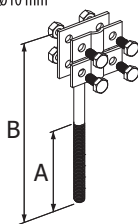
 NORM PN-EN-62561-1

Tensioner holders are used for making tensions of lightning wires. They are made from 2 mm thick plates, and cold forged steel.



R.8030

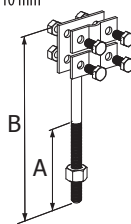
A / B = 170 / 220 mm  
For wire: Ø8, Ø10 mm



Tensioner holder M12  
Clamping with - 4 screws M8

R.8095

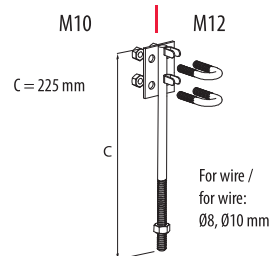
A / B = 170 / 220 mm  
For wire: Ø8, Ø10 mm



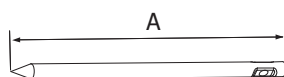
Tensioner holder with M12 nut  
Clamping with - 4 screws M8

R.8096

R.8091



Tensioner holder with bows  
Clamping with - 4 screws M8



A = 300 mm

R.8099

A = 350 mm

R.8100

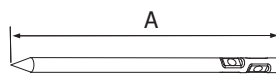
A = 400 mm

R.8101

Tensioner holder, hammered, forged, smooth

R.8098

A = 400 mm



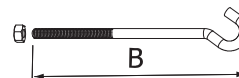
Tensioner holder, hammered, forged, smooth,  
doubled

B = 200 mm

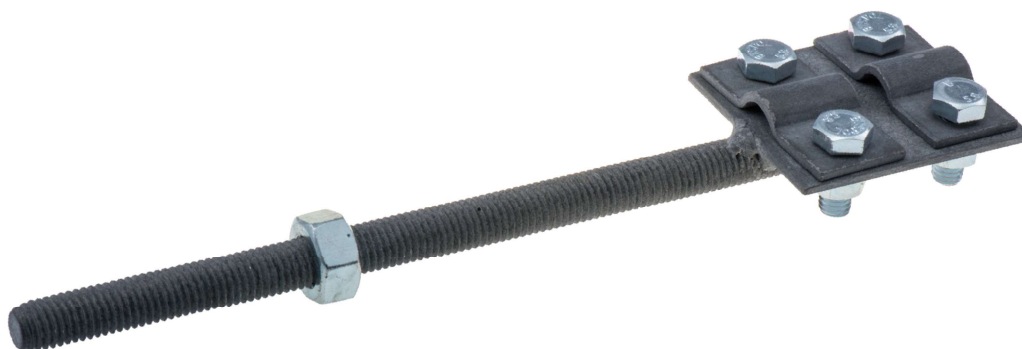
R.8265

B = 500 mm

R.8266



Tensioner holder with hook Ø10



## RABBET HOLDERS

 NORM PN-EN-62561-1

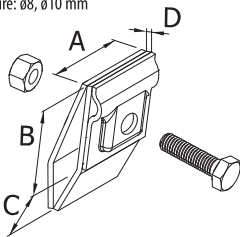


The rabbet holders are used to guide the lightning wire  $\varnothing 8$  or  $\varnothing 10$  along gutters, roof fittings and drains.

Appropriate handles are used depending on the way the lightning wire is routed in relation to attachment point.

 **R.8173**

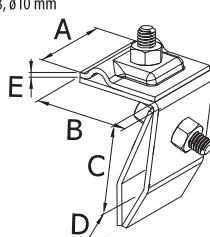
A / B / C / D = 42 / 45 / 20 / 2 mm  
For wire:  $\varnothing 8$ ,  $\varnothing 10$  mm



Rabbet holder, straight, thermo-diffusion galvanized,  
Clamping with 1 screw M10

 **R.8174**

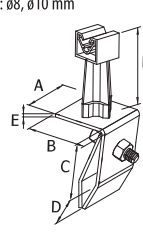
A / B / C / D / E = 42 / 45 / 50 / 20 / 2 mm  
For wire:  $\varnothing 8$ ,  $\varnothing 10$  mm



Rabbet holder, angular, thermo-diffusion galvanized,  
clamping with 2 screws M10

 **R.8175**

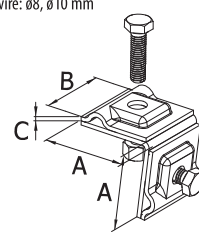
A / B / C / D / E / F = 42 / 45 / 50 / 20 / 2 / 70 mm  
For wire:  $\varnothing 8$ ,  $\varnothing 10$  mm



Rabbet holder, with extension, thermal diffusion, galvanized,  
clamping with 2 screws M10

 **R.8176**

A / B / C = 45 / 42 / 2 mm  
For wire:  $\varnothing 8$ ,  $\varnothing 10$  mm



Rabbet holder, universal, thermo-diffusion galvanized  
Clamping with 2 screws M10

## SHEET HOLDERS

 NORM PN-EN-62561-1



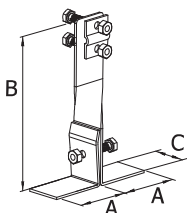
Running  $\varnothing 8$  or  $\varnothing 10$  lightning wire on roofs covered with sheet metal.

The lightning wire is run 130 mm above handle attachment point.

Possibility of attaching handles to fittings and rabbets.

 **R.8062**

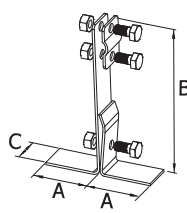
A / B / C = 30 / 130 / 25  
For wire:  $\varnothing 8$ ,  $\varnothing 10$  mm



Sheet holder, angular, twisted, thermal diffusion galvanization, clamping with 2 screws M6

 **R.8062A**

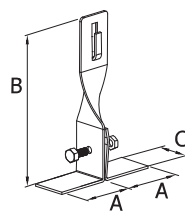
A / B / C = 30 / 130 / 25  
For wire:  $\varnothing 8$ ,  $\varnothing 10$  mm



Sheet holder, angular, thermal diffusion galvanization, clamping with 2 screws M6

 **R.8063**

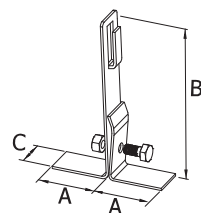
A / B / C = 30 / 130 / 25  
For wire:  $\varnothing 8$ ,  $\varnothing 10$  mm



Sheet holder, angular, twisted, thermal diffusion galvanization, clamping with bending

 **R.8063A**

A / B / C = 30 / 130 / 25  
For wire:  $\varnothing 8$  mm



Sheet holder, angular, thermal diffusion galvanization, clamping with bending

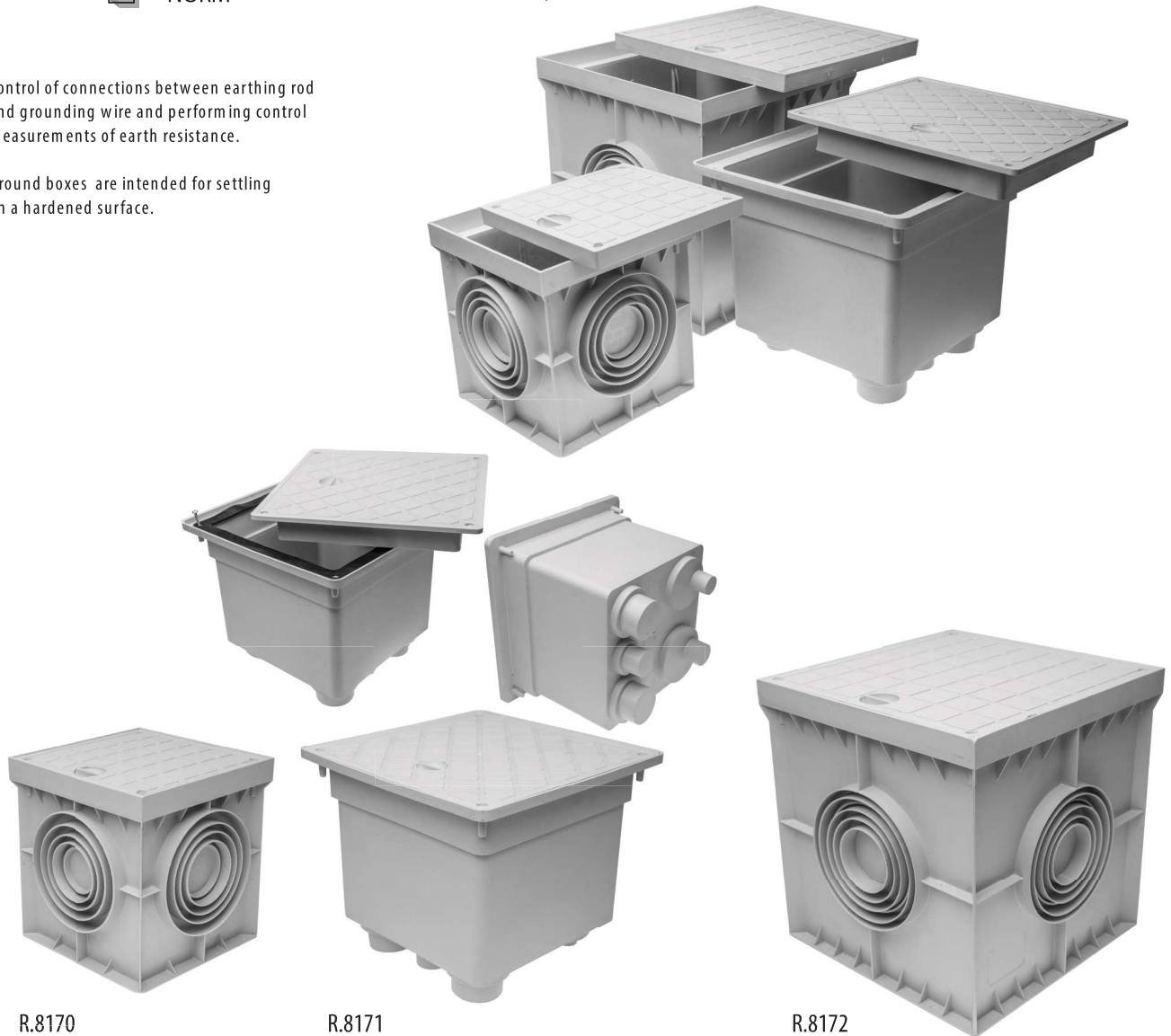
## CONTROL & MEASUREMENT GROUND BOXES



NORM PN-EN 124:2000 PN-EN 62305-1/3

Control of connections between earthing rod and grounding wire and performing control measurements of earth resistance.

Ground boxes are intended for settling on a hardened surface.



R.8170

R.8171

R.8172

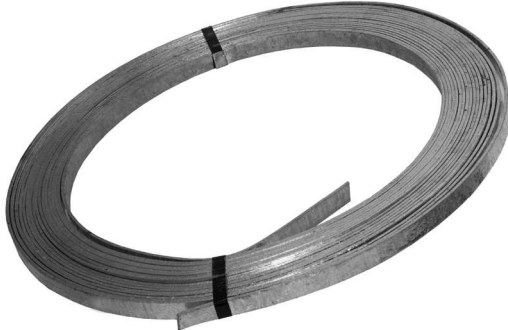
Catalogue number	IP	Control & measurement ground box, Type	Dimensions [mm]	Material	Permissible pressure on the cover [kN/kg]	Input Ø [mm]	Output Ø [mm]	Cover fixing
R.8170	IP44	Small	195/195/203	reinforced PP (polypropylene)	2,1 / 210	50 - 60 - 80 100 - 125	50 - 60 - 80 100 - 125	Snap-on
R.8171	IP55	Sealed	283/283/235		2,1 / 210	63 - 50 (2x) 40 - 32	75 - 25, 90 - 32	4 screws M6
R.8172	IP44	Big	290/290/297		7,39 / 739	60 - 80 - 90 - 110 125 - 140	60 - 80 - 100 110 - 125 - 140	Snap-on



## BAND-IRON AND WIRE



NORM PN-EN 62561-2



Hot-dip galvanized band-iron and lightning wire.  
The product is available for sale in collective packaging.

R.8143-25 - Lightning wire, galvanized (op ~ 25kg)  
fi-8 hot-dip galvanized (1kg ~ 2,597m)

R.8139-25 - Band-iron, galvanized 25x4 mm (op. ~ 25kg),  
hot-dip galvanized (1kg ~ 1,274m)

Delivery time up to 7 business days



R.8143-25

Ø8 mm / 25 kg

R.8143-20AL

Ø8 mm / 20 kg



Steel lightning wire  
galvanized and aluminum wire

R.8139-25

25 x 4 mm / 25 kg



Band-iron, galvanized

## GROUNDING BANDS



NORM PN-EN-62561-1



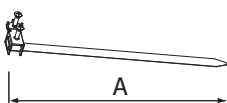
Main function is making equipotential bonding  
which guarantees proper work of lightning protection.

Material: stainless steel

width x depth: 20 x 0,3 mm

R.8183

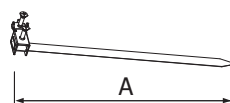
A = 601 mm



Grounding band 1/8-6"

R.8182

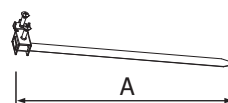
A = 426 mm



Grounding band 1/8-4"

R.8181

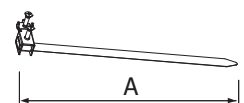
A = 207 mm



Grounding band 1/8-3/2"

R.8180

A = 135 mm



Grounding band 1/8-3/8"

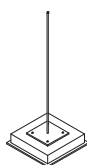
Products from Group R of this catalog are available in a hot-dip galvanized version

## FREE STANDING LIGHTNING MAST



NORM PN-EN-62561-1

## Free standing lightning mast

**R.8310**

Free standing lightning mast  
Height of mast: 1 [m]  
Diameter of spire: Ø10  
Weight of base: 15 [kg]  
Concrete base: 350x350x50 [mm]

**R.8311**

Free standing lightning mast  
Height of mast: 1,5 [m]  
Diameter of spire: Ø12  
Weight of base: 15 [kg]  
Concrete base: 350x350x50 [mm]

**R.8312**

Free standing lightning mast  
Height of mast: 2 [m]  
Diameter of spire: Ø12  
Weight of base: 15 [kg]  
Concrete base: 350x350x50 [mm]

## Free standing lightning mast

**R.8313**

Free standing lightning mast  
Height of mast: 2 [m]  
Diameter of spire: Ø16  
Weight of base: 40 [kg]  
Concrete base: 500x500x70 [mm]

**R.8314**

Free standing lightning mast  
Height of mast: 3 [m]  
Diameter of spire: Ø18/Ø10  
Weight of base: 40 [kg]  
Concrete base: 500x500x70 [mm]

**R.8315**

Free standing lightning mast  
Height of mast: 4 [m]  
Diameter of spire: Ø18/Ø12  
Weight of base: 40 [kg]  
Concrete base: 500x500x70 [mm]

**R.8302**

Free standing lightning mast on a tripod  
Height of mast: 4 [m]  
Diameter of spire: Ø33,7/ Ø12  
Weight of base: 3x40 [kg]  
Concrete base: 500x500x70 [mm]

**R.8303**

Free standing lightning mast on a tripod  
Height of mast: 5 [m]  
Diameter of spire: Ø33,7/ Ø18/ Ø10  
Weight of base: 3x40 [kg]  
Concrete base: 500x500x70 [mm]

**R.8304**

Free standing lightning mast on a tripod  
Height of mast: 6 [m]  
Diameter of spire: Ø33,7/ Ø18/ Ø12  
Weight of base: 3x40 [kg]  
Concrete base: 500x500x70 [mm]

**R.8305**

Free standing lightning mast on a tripod  
Height of mast: 7 [m]  
Diameter of spire: Ø33,7/ Ø18/ Ø10  
Weight of base: 6x40 [kg]  
Concrete base: 2x500x500x70 [mm]

**R.8306**

Free standing lightning mast on a tripod  
Height of mast: 8 [m]  
Diameter of spire: Ø42,4/ Ø33,7/ Ø18/ Ø12  
Weight of base: 6x40 [kg]  
Concrete base: 2x500x500x70 [mm]

## Free standing lightning mast on a tripod

Lighting masts with concrete base are used in places where creating a lightning-safe zone is necessary, for expl. Roofs, squares. Depending on the protected object – there can be used masts with a single base or on a tripod.

They are made from hot dip galvanized bars and pipes



## Free standing lighting mast on a tripod for protective cages

**R.8307**

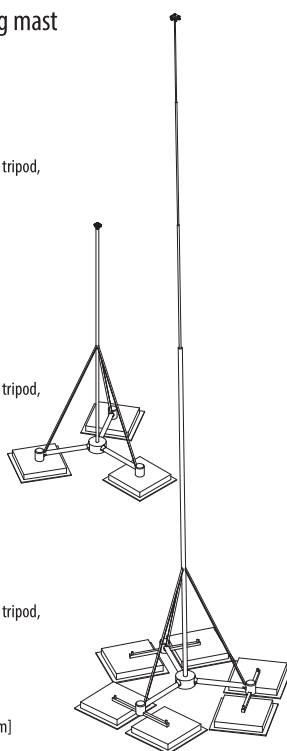
Free standing lightning mast on a tripod, for protective cages  
Height of mast: 3 [m]  
Diameter of spire: Ø33,7  
Weight of base: 3x40 [kg]  
Concrete base: 500x500x70 [mm]  
Max wire lenght: 4 m

**R.8308**

Free standing lightning mast on a tripod, for protective cages  
Height of mast: 4 [m]  
Diameter of spire: Ø33,7  
Weight of base: 3x40 [kg]  
Concrete base: 500x500x70 [mm]  
Max wire lenght: 5 m

**R.8309**

Free standing lightning mast on a tripod, for protective cages  
Height of mast: 5 [m]  
Diameter of spire: Ø42,4  
Weight of base: 6x40 [kg]  
Concrete base: 2x500x500x70 [mm]  
Max wire lenght: 6 m



## CHIMNEY SPIRES



NORM PN-EN-62561-1

## Chimney spires

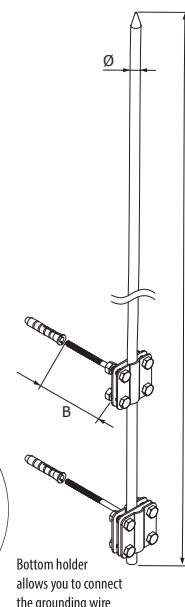
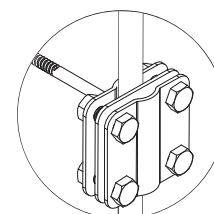
Norm: PN-EN 50164-2  
Mounting: expansion bolt M12  
For wire: Ø8 i Ø10  
Quantity in package: 1  
Material: galvanized steel

**R.8166** Chimney spires  
Height H=1 m, Ø10, B=180 mm

**R.8167** Chimney spires  
Height H=1,5 m, Ø10, B=180 mm

**R.8168** Chimney spires  
Height H=2 m, Ø12, B=180 mm

**R.8169** Chimney spires  
Height H=2,5 m, Ø12, B=180 mm

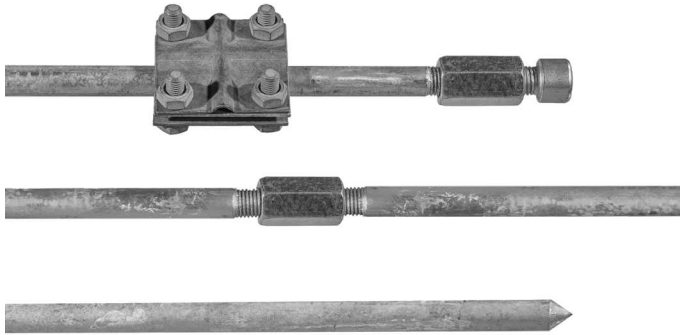


Bottom holder allows you to connect the grounding wire

## EARTHING RODS

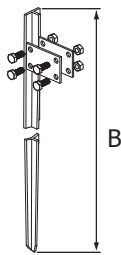


NORM PN-EN 62561-2



Main part of grounding installation, partially buried into the ground  
They are made from hot-dip galvanized steel bars.  
For connections between elements of lightning installation and earthing rods are used cross connector.

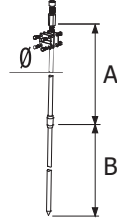
B = 2000 mm	R.8138
B = 1500 mm	R.8137
B = 1000 mm	R.8136



T-bar earthing rod, hammered

R.8055	R.8055G
	galvanic zinc

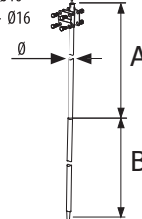
A / B = 1500 / 1500 mm  
R.8055 Ø=16



Earthing rod, compounded, 3m, cross connector + base + extender

R.8055BG	R.8055BGG
	galvanic zinc

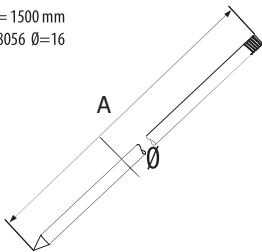
A / B = 1500 / 1500 mm  
R.8055BG - Ø16  
R.8055BGG - Ø16



Threadless earthing rod, compounded, 3m, cross connector + 2 x extender + accessories

R.8056
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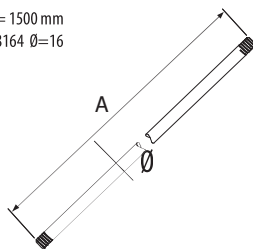
A = 1500 mm  
R.8056 Ø=16



Earthing rod (spire), 1,5 m (base), hot-dip galvanized

R.8164
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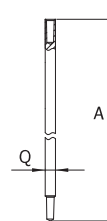
A = 1500 mm  
R.8164 Ø=16



Earthing rod (extender), 1,5 m, hot-dip galvanized

R.8164BG	R.8164BGG
	galvanic zinc

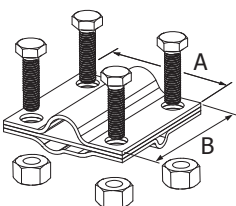
A = 1500 mm  
R.8164BG - Ø16  
R.8164BGG - Ø16



Threadless earthing rod - spire/extension 1,5m hot-dip galvanized

R.8051
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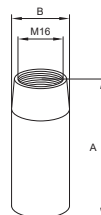
A / B = 70 / 70 mm  
Distance between screws: 42 mm



Cross connector, big, three plates, 4 screws M10, hot-dip galvanized

R.8163
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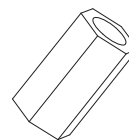
Dimensions A/B [mm] 49/22  
Thread M16



Earth electrode - connector for the impactor

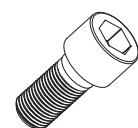
R.8163G-P
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Thread M16



Earth electrode - connector for the impactor hexagonal, galvanized

R.8161G
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Ground rod - mallet galvanic zinc plated