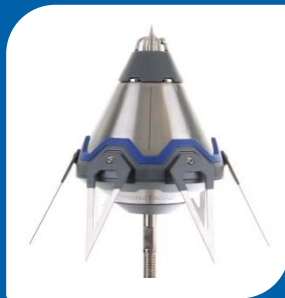


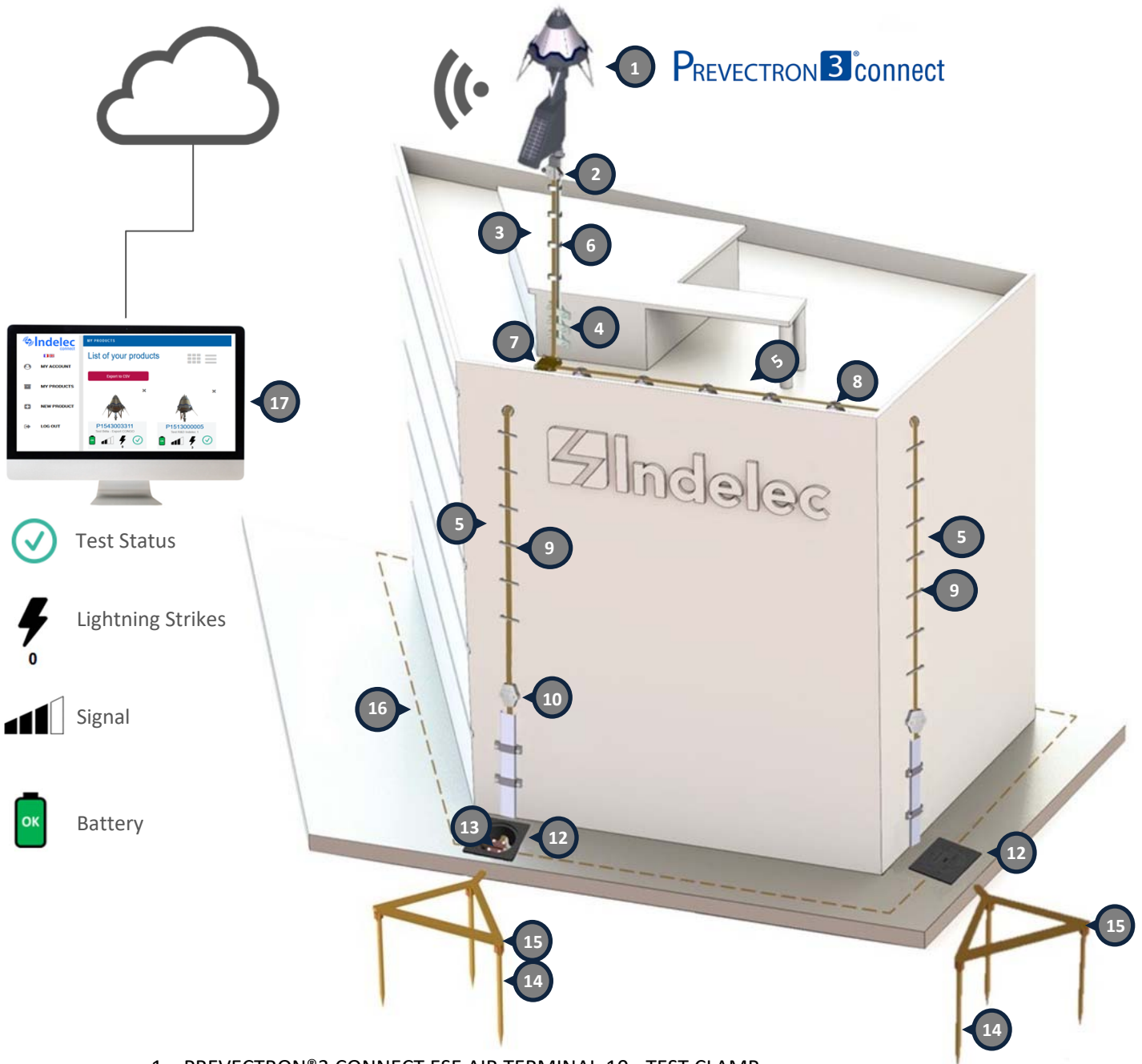
Indelec



PREVELECTRON®

Made
 In
Safety

Remote-Testing ESE Lightning Protection System Typical Installation



- | | |
|--|--------------------------------|
| 1 – PREVETRON®3 CONNECT ESE AIR TERMINAL | 10 - TEST CLAMP |
| 2 - PREVETRON® TO CONDUCTOR CLAMP | 11 - PROTECTION SHEATH |
| 3 - ELEVATION MAST | 12 - INSPECTION PIT |
| 4 - MAST BRACKET | 13 - EARTH CLAMP |
| 5 - DOWN CONDUCTORS | 14 - EARTH ROD |
| 6 - MAST COLLAR | 15 - ROD TO CONDUCTOR CLAMP |
| 7 - CONDUCTOR CLAMP | 16 - BUILDING GENERAL EARTHING |
| 8 - ROOF CONDUCTOR HOLDER | 18 – WWW.INDELEC-CONNECT.COM |
| 9 - DOWN CONDUCTOR FIXING | |



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PREVECTRON® 3 S60

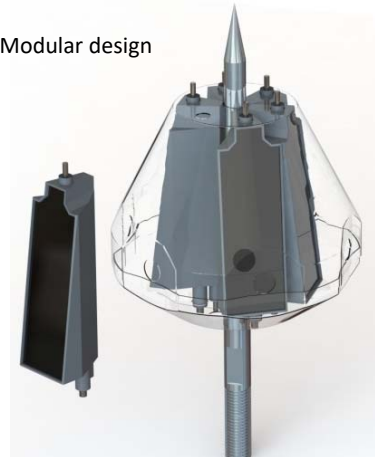
EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1543	
Characteristics		
Efficiency	ΔT	60 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.44 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	230 kA (Unicamp)
Net Weight	P	3.900 kg
Operating principles		
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX® technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	6 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
On-site testing capabilities	Proprietary tester	
Maintenance	Replaceable modules	
Warranty	5 years	
Mechanical specifications		
Fixing on pole	M20 Thread	
Down conductor connection	Specific clamp ref P6500 (included)	
Packaging		
Dimensions	438 x 228 x 220 mm	
Contents	Prevectron®3, Down conductor clamp, Hex key	
Gross Weight	5.650 kg	
Environmental sustainability	100% recyclable	
Certifications		
NF C 17 102:2011, Annex C	Bureau Veritas certificate N°6275241/2/1/1	
Qualifoudre	Ineris certificate N° N°051166662001	
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate	
CE Marking	Declaration of Conformity N°IND-CE-21092015-A	
Underwriter Laboratories (UL)	UL Certified E478687	
Rostechnadzor (RTN Russia)	N° RRS 00-05003	
Eco -label	AFAQ N°1335.2 11/2014 Certificate	

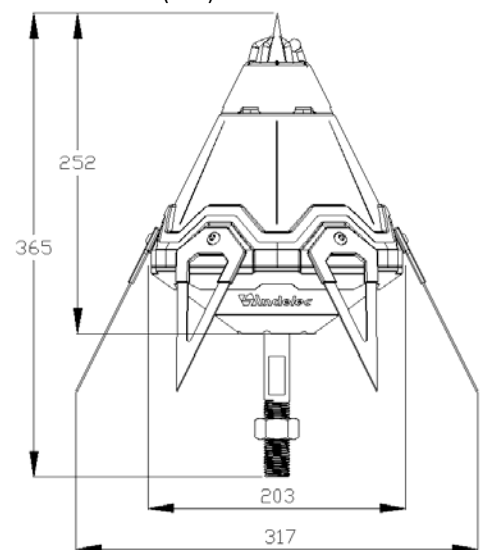
PREVECTRON 3® S60



Modular design



Dimensions (mm)



DOC169a.VEN-Rev2



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PREVECTRON® 3 S50

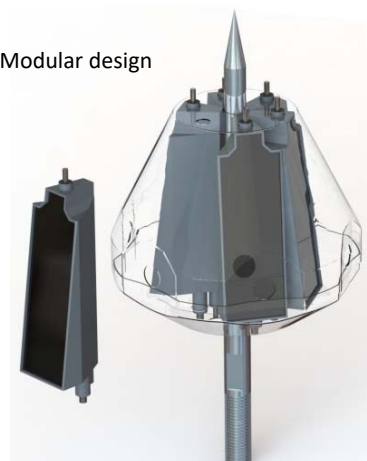
EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1533	
Characteristics		
Efficiency	ΔT	50 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.53 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	200 kA (Unicamp)
Net Weight	P	3.300 kg
Operating principles		
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX® technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	4 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
On-site testing capabilities	Proprietary tester	
Maintenance	Replaceable modules	
Warranty	5 years	
Mechanical specifications		
Fixing on pole	M20 Thread	
Down conductor connection	Specific clamp ref P6500 (included)	
Packaging		
Dimensions	438 x 228 x 220 mm	
Contents	Prevectron®3, Down conductor clamp, Hex key	
Gross Weight	5.050 kg	
Environmental sustainability	100% recyclable	
Certifications		
NF C 17 102:2011, Annex C	Bureau Veritas certificate N°6275241/2/1/2	
Qualifoudre	Ineris certificate N° N°051166662001	
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate	
CE Marking	Declaration of conformity N°IND-CE-21092015-B	
Underwriter Laboratories (UL)	UL Certified E478687	
Rostechnadzor (RTN Russia)	N° RRS 00-05003	
Eco -label	AFAQ N°1335.2 11/2014 Certificate	

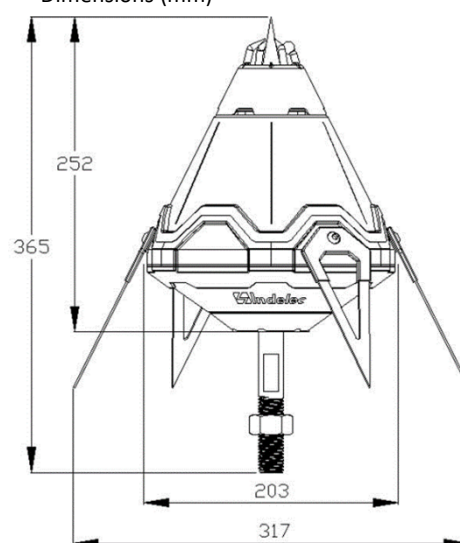
PREVECTRON 3® S50



Modular design



Dimensions (mm)



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PREVECTRON® 3 S40

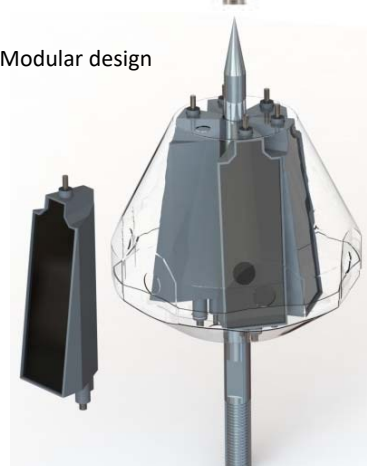
EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1523	
Characteristics		
Efficiency	ΔT	40 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.57 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	200 kA (Unicamp)
Net Weight	P	3.000 kg
Operating principles		
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX® technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	3 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
On-site testing capabilities	Proprietary tester	
Maintenance	Replaceable modules	
Warranty	5 years	
Mechanical specifications		
Fixing on pole	M20 Thread	
Down conductor connection	Specific clamp ref P6500 (included)	
Packaging		
Dimensions	438 x 228 x 220 mm	
Contents	Prevectron®3, Down conductor clamp, Hex key	
Gross Weight	4.750 kg	
Environmental sustainability	100% recyclable	
Certifications		
NF C 17 102:2011, Annex C	Bureau Veritas certificate N°6275241/2/1/3	
Qualifoudre	Ineris certificate N° N°051166662001	
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate	
CE Marking	Attest report N°IND-CE-21092015-C	
Underwriter Laboratories (UL)	UL Certified E478687	
Rostechnadzor (RTN Russia)	N° RRS 00-05003	
Eco -label	AFAQ N°1335.2 11/2014 Certificate	

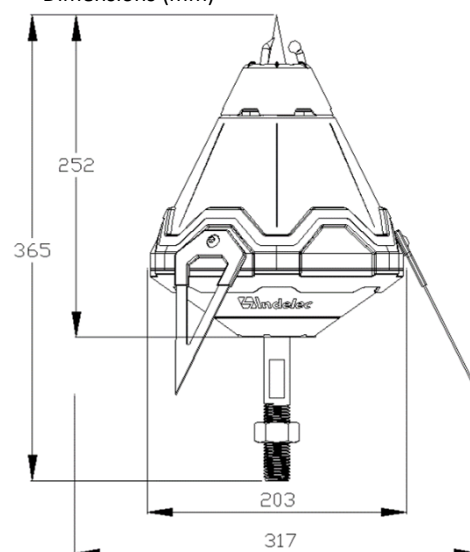
PREVECTRON 3® S40



Modular design



Dimensions (mm)



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PREVECTRON® 3 TS25

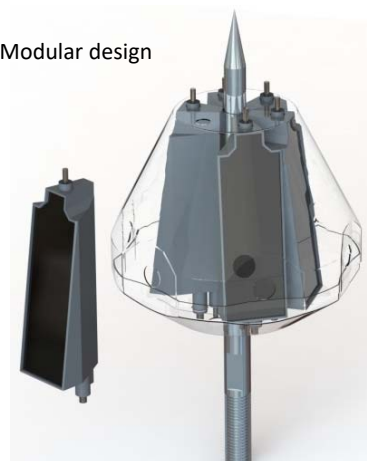
EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1513	
Characteristics		
Efficiency	ΔT	25 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0,65 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	200 kA (Unicamp)
Net Weight	P	2.300 kg
Operating principles		
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX® technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	3 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
On-site testing capabilities	Proprietary tester	
Maintenance	Replaceable modules	
Warranty	5 years	
Mechanical specifications		
Fixing on pole	M20 Thread	
Down conductor connection	Specific clamp ref P6500 (included)	
Packaging		
Dimensions	438 x 228 x 220 mm	
Contents	Prevectron®3, Down conductor clamp, Hex key	
Gross Weight	4.050 kg	
Environmental sustainability	100% recyclable	
Certifications		
NFC 17 102:2011, Annex C	Bureau Veritas certificate N°6275241/2/1/4	
Qualifoudre	Ineris certificate N° N°051166662001	
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate	
CE Marking	Certificate of Conformity N°IND-CE-21092015-D	
Underwriter Laboratories (UL)	UL Certified E478687	
Rostechnadzor (RTN Russia)	N° RRS 00-05003	
Eco -label	AFAQ N°1335.2 11/2014 Certificate	

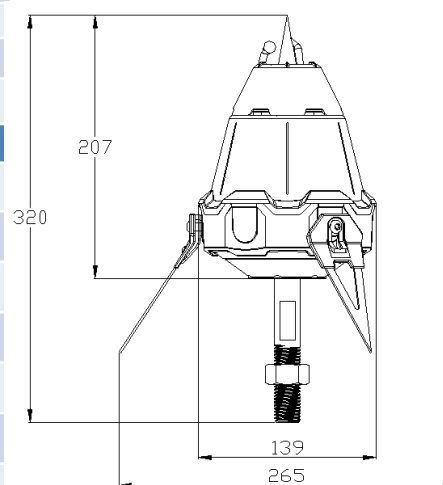
PREVECTRON 3® TS25



Modular design



Dimensions (mm)



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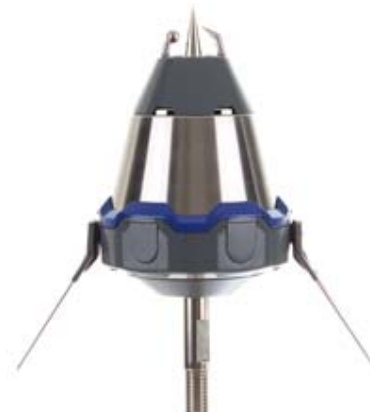
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PREVECTRON® 3 TS10

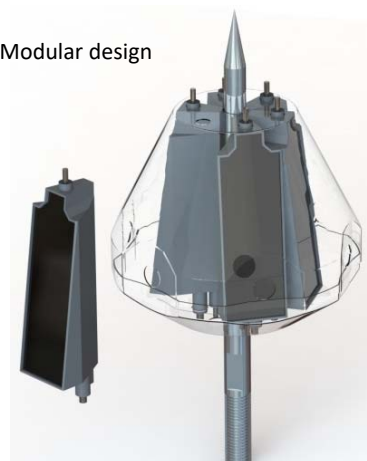
EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1503	
Characteristics		
Efficiency	ΔT	10 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0,75 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	200 kA (Unicamp)
Net Weight	P	2.000 kg
Operating principles		
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX® technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	2 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
On-site testing capabilities	Proprietary tester	
Maintenance	Replaceable modules	
Warranty	5 years	
Mechanical specifications		
Fixing on pole	M20 Thread	
Down conductor connection	Specific clamp ref P6500 (included)	
Packaging		
Dimensions	438 x 228 x 220 mm	
Contents	Prevectron®3, Down conductor clamp, Hex key	
Gross Weight	3.750 kg	
Environmental sustainability	100% recyclable	
Certifications		
NF C 17 102:2011, Annex C	Bureau Veritas certificate N°6275241/2/1/5	
Qualifoudre	Ineris certificate N° N°051166662001	
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate	
CE Marking	Certificate of Conformity N°IND-CE-21092015-E	
Underwriter Laboratories (UL)	UL Certified E478687	
Rostechnadzor (RTN Russia)	N° RRS 00-05003	
Eco –label	AFAQ N°1335.2 11/2014 Certificate	

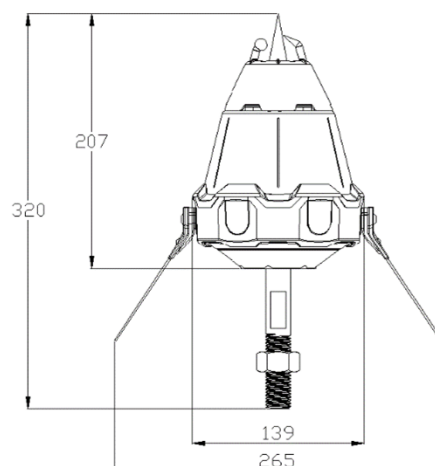
PREVECTRON 3® TS10



Modular design



Dimensions (mm)



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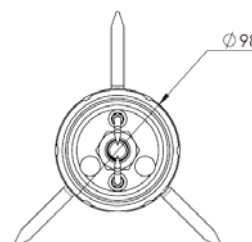
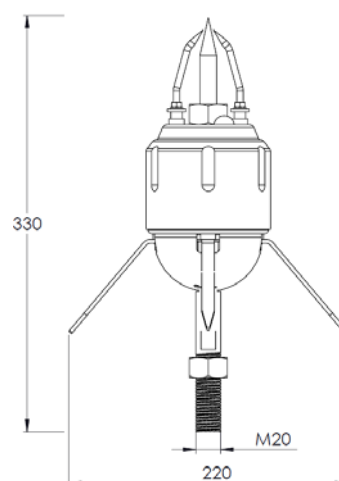
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PREVECTRON® 2 TS3.40 HERITAGE BUILDING EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1214	
Characteristics		
Efficiency	ΔT	40 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.73 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Net Weight	P	2.268 kg
Operating principles		
Detection of download leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	3 independent and redundant circuits	
Central rod	Full electrical continuity 200mm ² section – Copper	
Metal housing	Stainless Steel, Electromagnetic shielding	
On-site testing capabilities	Proprietary tester	
Maintenance	Replaceable modules	
Warranty	18 months	
Mechanical specifications		
Fixing on pole	M20 Thread	
Down conductor connection	Specific clamp ref P6500 (included)	
Packaging		
Dimensions	438 x 228 x 220 mm	
Contents	Prevectron®3, Down conductor clamp, Hex key	
Gross Weight	3.138 kg	
Certifications		
NF C 17 102:2011, Annex C	Bureau Veritas certificate N°2513661/1/7	
Qualifoudre	Ineris certificate N° N°051166662001	
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate	



Dimensions (mm)



Tester P1290C



Application
Prevectron2 MH on copper Ornament
Cock « Louis » ref. P10.014

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Prevectron 3[®] S60T

REMOTE-TESTING

EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1543T	
Prevectron 3[®] Early Streamer Emission Technical Specifications		
Efficiency	ΔT	60 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.44 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	230 kA (Unicamp)
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX [®] technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	6 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
Maintenance	Replaceable modules (factory)	

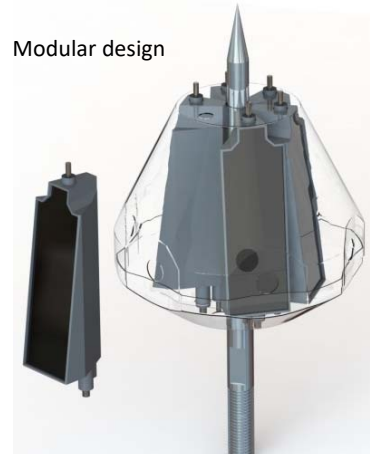
PREVECTRON 3[®] S60



REMOTE TESTING MODULE
PREVECTRON 3[®]

Prevectron 3[®] Remote Testing Module Technical Specifications	
On-site working conditions testing	Remote testing Module réf.P1591 (not included) : -ESE Lightning conductor condition -Solar Remote Testing Unit battery level
Remote Testing Module / ESE Lightning Conductor Communication Protocol	Radio-frequency communication HF 2.4GHz Range = 100m/330 ft
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V
Battery Charge	Monocrystalline Glass-coated Solar panel
Remote Testing Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper
Remote Testing Module / Prevectron connection	Fast Connect Technology Plug-in system
Maintenance	Battery Replacement Kit ref. P1599

Modular design



Accessory (not included)
Testing Remote Control P3 T réf P1591



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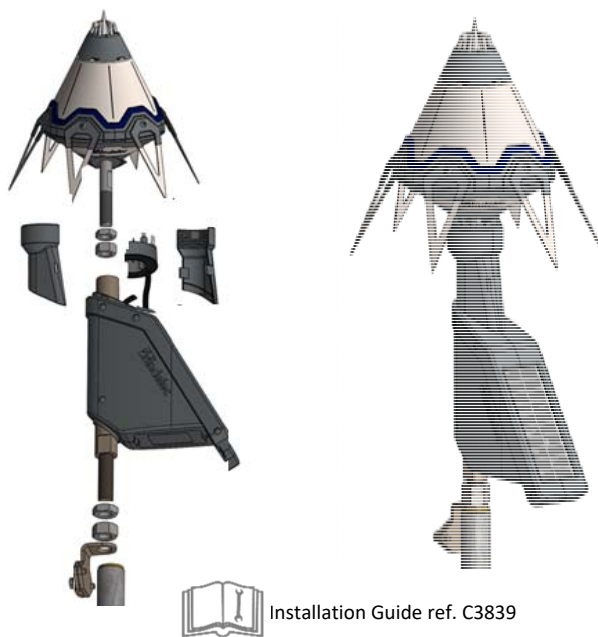
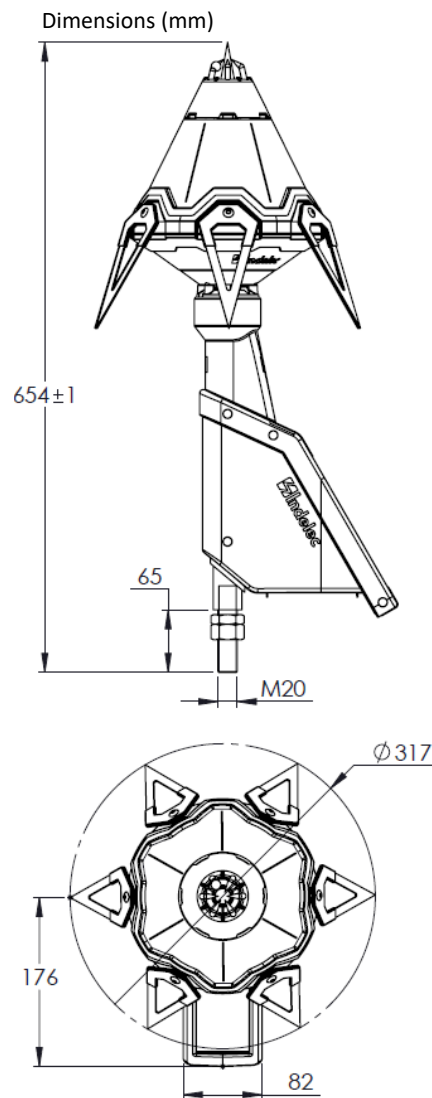
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Prevectron 3[®] S60T

REMOTE-TESTING

EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1543T
Fixing on pole	M20 Thread
Down-conductor clamp	Proprietary clamp included
Packing	
Dimensions	485 x 262 x 435 mm
Gross Weight	8.550 kg
Warranty	
Warranty (excluding Remote testing module battery)	5 years
Certificates - Standards	
NF C 17 102:2011, Annex C	Bureau Veritas certificate N°6275241/2/1/1
Qualifoudre	Ineris certificate N° N°051166662001
CE Marking	Declaration of Conformity N°IND-CE-21092015-A (Prevectron®3 Lightning conductor)
Underwriter Laboratories (UL)	UL Certified E478687 (Prevectron®3 Lightning conductor)
Eco Label	AFAQ N°1335.2 11/2014 Certificate
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate



Installation Guide ref. C3839



Accessory (not included)
Testing Remote Control réf P1591



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Prevectron 3[®] S50T

REMOTE-TESTING

EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1533T	
Prevectron 3[®] Early Streamer Emission Technical Specifications		
Efficiency	ΔT	50 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.53 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	200 kA (Unicamp)
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX [®] technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	4 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
Maintenance	Replaceable modules (factory)	

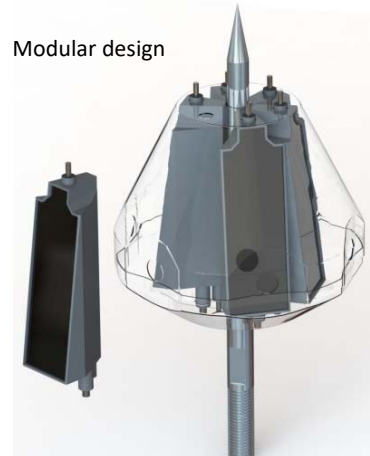
Prevectron 3[®] Remote Testing Module Technical Specifications		
On-site working conditions testing	Remote testing Module réf.P1591 (not included) : -ESE Lightning conductor condition -Solar Remote Testing Unit battery level	
Remote Testing Module / ESE Lightning Conductor Communication Protocol	Radio-frequency communication HF 2.4GHz Range = 100m/330 ft	
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V	
Battery Charge	Monocrystalline Glass-coated Solar panel	
Remote Testing Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Remote Testing Module / Precvectron connection	Fast Connect Technology Plug-in system	
Maintenance	Battery Replacement Kit réf. P1599	

PREVECTRON 3[®] S50



REMOTE TESTING MODULE
PREVECTRON 3[®]

Modular design



Accessory (not included)
Testing Remote Control P3 T réf P1591



DOC269a.VEN-Rev2



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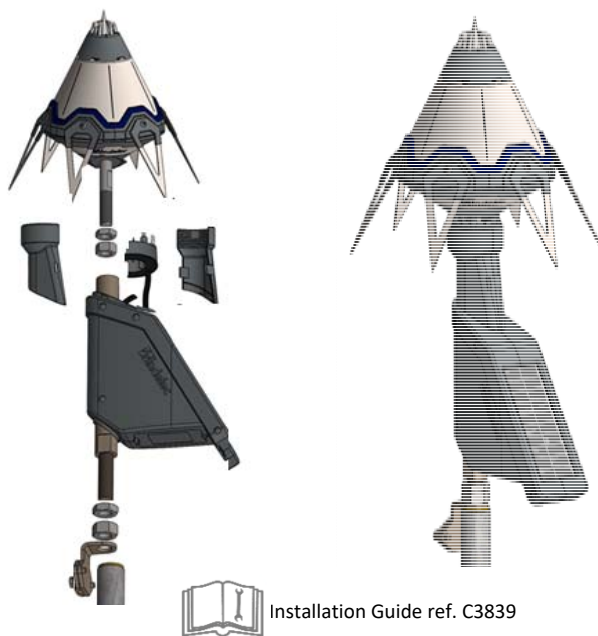
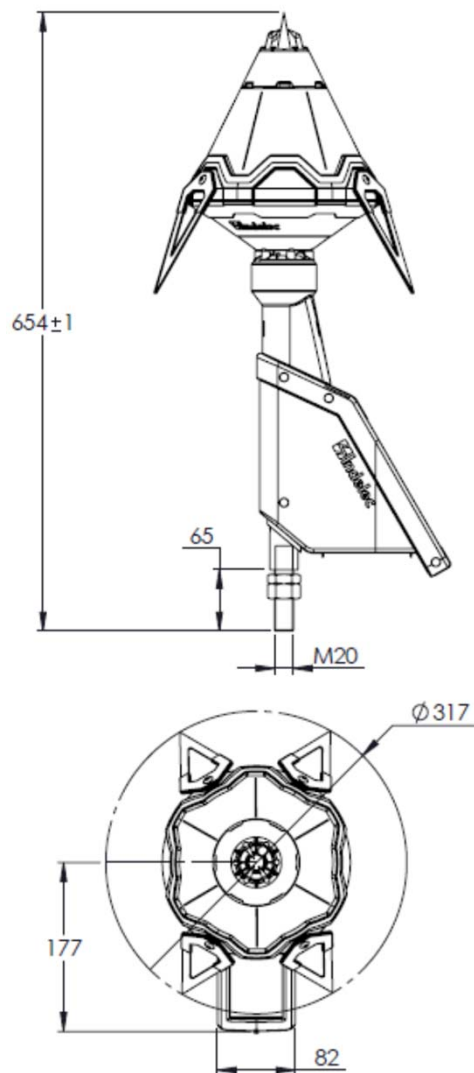
Prevectron 3[®] S50T

REMOTE-TESTING

EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1533T
Fixing on pole	M20 Thread
Down-conductor clamp	Proprietary clamp included
Packing	
Dimensions	485 x 262 x 435 mm
Gross Weight	7.950 kg
Warranty	
Warranty (excluding Remote testing module battery)	5 years
Certificates - Standards	
NF C 17 102:2011, Annex C	Bureau Veritas certificate N°6275241/2/1/1
Qualifoudre	Ineris certificate N° N°051166662001
CE Marking	Declaration of Conformity N°IND-CE-21092015-A (Prevectron®3 Lightning conductor)
Underwriter Laboratories (UL)	UL Certified E478687 (Prevectron®3 Lightning conductor)
Eco Label	AFAQ N°1335.2 11/2014 Certificate
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate

Dimensions (mm)



Accessory (not included)
Testing Remote Control réf P1591



DOC269a.VEN-Rev2



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Prevectron 3[®] S40T

REMOTE-TESTING

EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1523T	
Prevectron 3[®] Early Streamer Emission Technical Specifications		
Efficiency	ΔT	40 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.57 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	200 kA (Unicamp)
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX [®] technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	3 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
Maintenance	Replaceable modules (factory)	

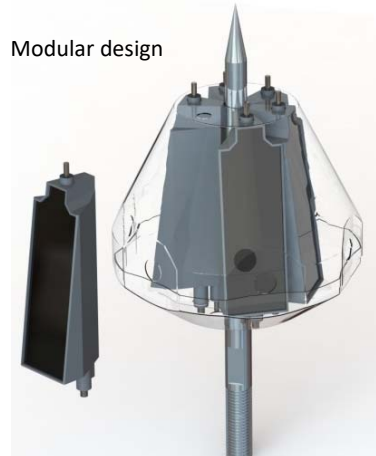
Prevectron 3[®] Remote Testing Module Technical Specifications		
On-site working conditions testing	Remote testing Module réf.P1591 (not included) : -ESE Lightning conductor condition -Solar Remote Testing Unit battery level	
Remote Testing Module / ESE Lightning Conductor Communication Protocol	Radio-frequency communication HF 2.4GHz Range = 100m/330 ft	
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V	
Battery Charge	Monocrystalline Glass-coated Solar panel	
Remote Testing Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Remote Testing Module / Precvectron connection	Fast Connect Technology Plug-in system	
Maintenance	Battery Replacement Kit réf. P1599	

PREVECTRON 3[®] S40



REMOTE TESTING MODULE
PREVECTRON 3[®]

Modular design



Accessory (not included)
Testing Remote Control P3 T réf P1591



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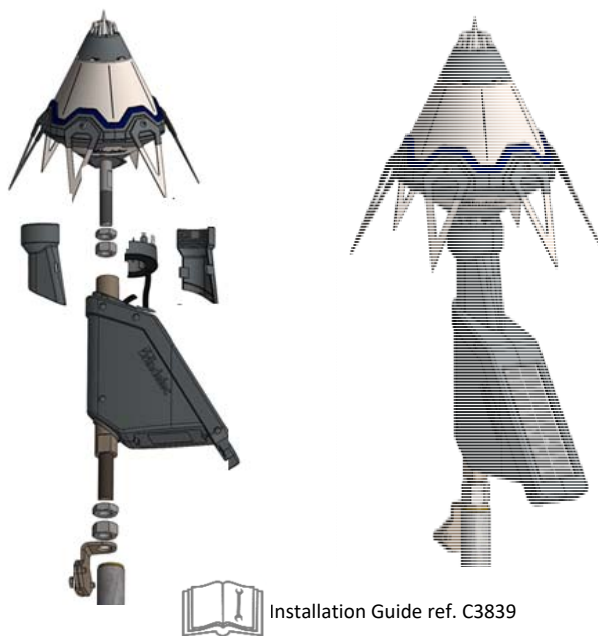
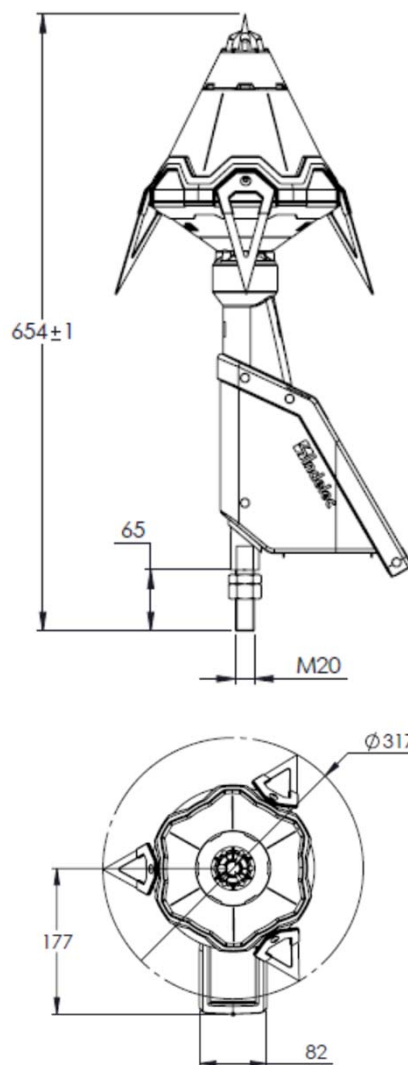
Prevectron 3[®] S40T

REMOTE-TESTING

EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1523T
Fixing on pole	M20 Thread
Down-conductor clamp	Proprietary clamp included
Packing	
Dimensions	485 x 262 x 435 mm
Gross Weight	7.650 kg
Warranty	
Warranty (excluding Remote testing module battery)	5 years
Certificates - Standards	
NF C 17 102:2011, Annex C	Bureau Veritas certificate N°6275241/2/1/1
Qualifoudre	Ineris certificate N° N°051166662001
CE Marking	Declaration of Conformity N°IND-CE-21092015-A (Prevectron [®] 3 Lightning conductor)
Underwriter Laboratories (UL)	UL Certified E478687 (Prevectron [®] 3 Lightning conductor)
Eco Label	AFAQ N°1335.2 11/2014 Certificate
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate

Dimensions (mm)



Accessory (not included)
Testing Remote Control réf P1591



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Prevectron 3[®] TS25T

REMOTE-TESTING

EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1513T	
Prevectron 3[®] Early Streamer Emission Technical Specifications		
Efficiency	ΔT	25 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.65 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	200 kA (Unicamp)
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX [®] technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	3 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
Maintenance	Replaceable modules (factory)	

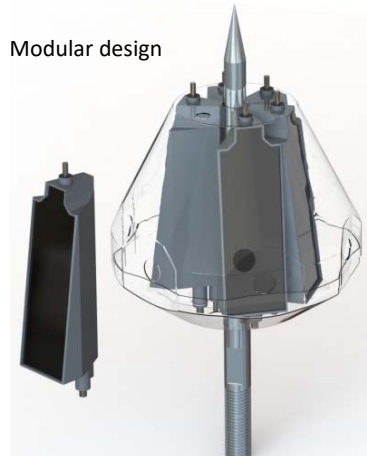
Prevectron 3[®] Remote Testing Module Technical Specifications	
On-site working conditions testing	Remote testing Module réf.P1591 (not included) : -ESE Lightning conductor condition -Solar Remote Testing Unit battery level
Remote Testing Module / ESE Lightning Conductor Communication Protocol	Radio-frequency communication HF 2.4GHz Range = 100m/330 ft
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V
Battery Charge	Monocrystalline Glass-coated Solar panel
Remote Testing Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper
Remote Testing Module / Precvectron connection	Fast Connect Technology Plug-in system
Maintenance	Battery Replacement Kit réf. P1599

PREVECTRON 3[®] TS25



REMOTE TESTING MODULE
PREVECTRON 3[®]

Modular design



Accessory (not included)
Testing Remote Control P3 T réf P1591



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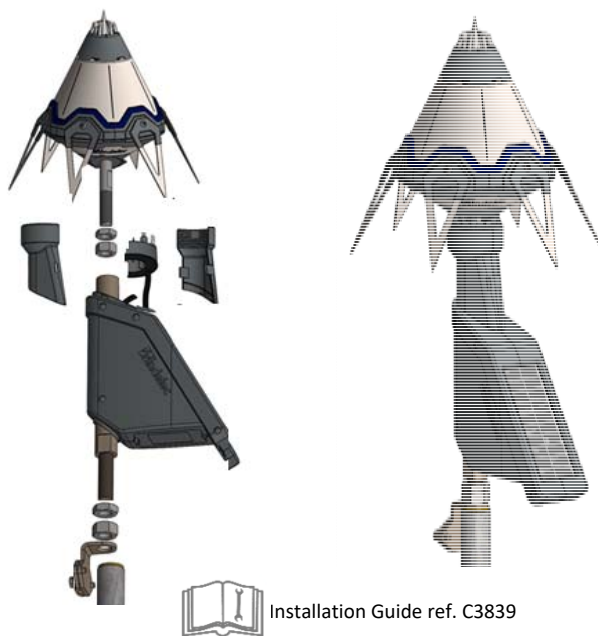
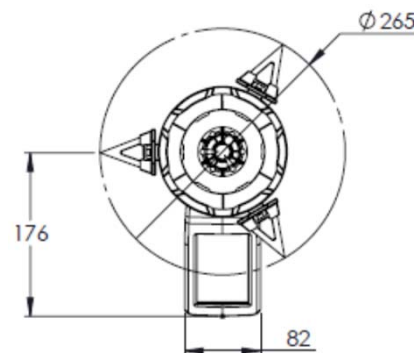
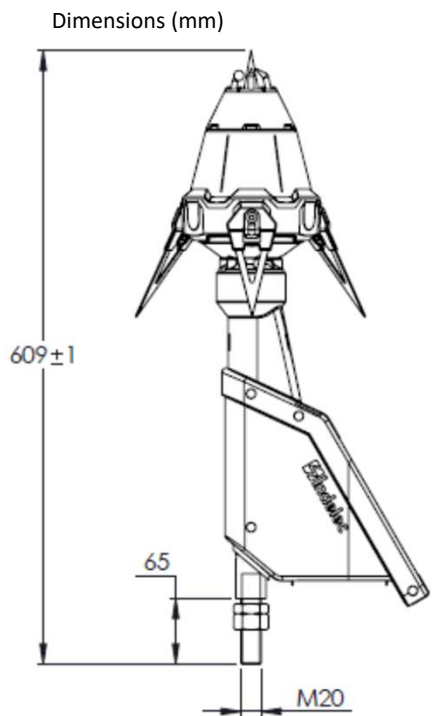


Prevectron 3[®] TS25T

REMOTE-TESTING

EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1513T
Fixing on pole	M20 Thread
Down-conductor clamp	Proprietary clamp included
Packing	
Dimensions	485 x 262 x 435 mm
Gross Weight	6.950 kg
Warranty	
Warranty (excluding Remote testing module battery)	5 years
Certificates - Standards	
NF C 17 102:2011, Annex C	Bureau Veritas certificate N°6275241/2/1/1
Qualifoudre	Ineris certificate N° N°051166662001
CE Marking	Declaration of Conformity N°IND-CE-21092015-A (Prevectron®3 Lightning conductor)
Underwriter Laboratories (UL)	UL Certified E478687 (Prevectron®3 Lightning conductor)
Eco Label	AFAQ N°1335.2 11/2014 Certificate
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate



Installation Guide ref. C3839



Accessory (not included)
Testing Remote Control réf P1591



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Prevectron 3[®] TS10T

REMOTE-TESTING

EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1503T	
Prevectron 3[®] Early Streamer Emission Technical Specifications		
Efficiency	ΔT	10 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.75 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	200 kA (Unicamp)
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX [®] technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	2 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
Maintenance	Replaceable modules (factory)	

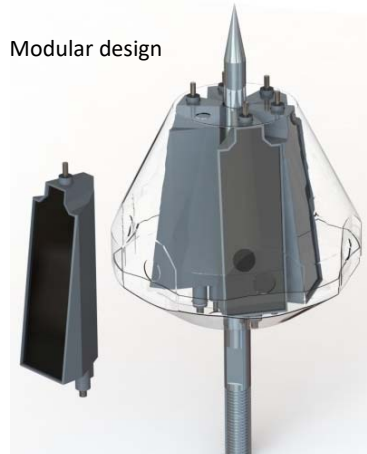
Prevectron 3[®] Remote Testing Module Technical Specifications	
On-site working conditions testing	Remote testing Module réf.P1591 (not included) : -ESE Lightning conductor condition -Solar Remote Testing Unit battery level
Remote Testing Module / ESE Lightning Conductor Communication Protocol	Radio-frequency communication HF 2.4GHz Range = 100m/330 ft
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V
Battery Charge	Monocrystalline Glass-coated Solar panel
Remote Testing Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper
Remote Testing Module / Precvectron connection	Fast Connect Technology Plug-in system
Maintenance	Battery Replacement Kit réf. P1599

PREVECTRON 3[®] TS10



REMOTE TESTING MODULE
PREVECTRON 3[®]

Modular design



Accessory (not included)
Testing Remote Control P3 T réf P1591



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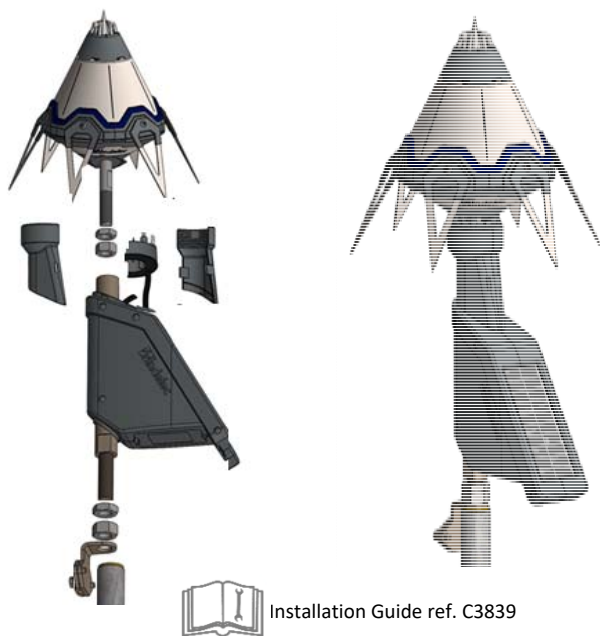
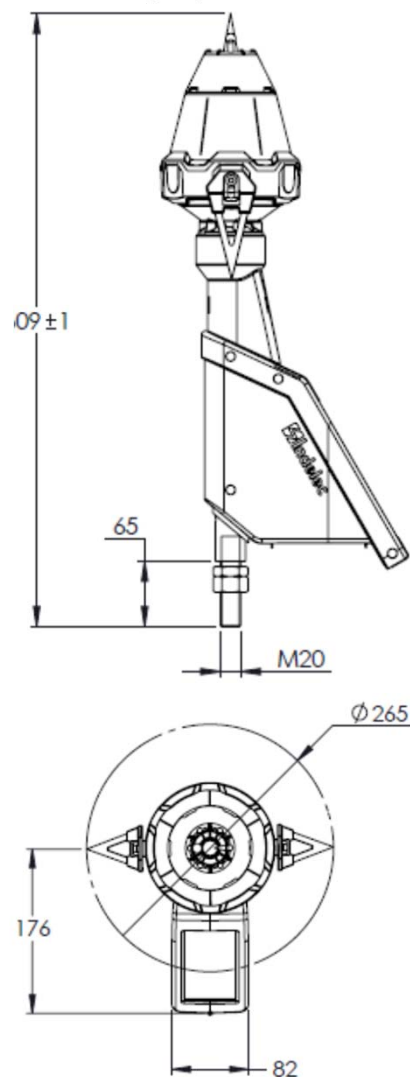
Prevectron 3[®] TS10T

REMOTE-TESTING

EARLY STEAMER EMISSION AIR TERMINAL (ESE)

Reference	P1503T
Fixing on pole	M20 Thread
Down-conductor clamp	Proprietary clamp included
Packing	
Dimensions	485 x 262 x 435 mm
Gross Weight	6.650 kg
Warranty	
Warranty (excluding Remote testing module battery)	5 years
Certificates - Standards	
NF C 17 102:2011, Annex C	Bureau Veritas certificate N°6275241/2/1/1
Qualifoudre	Ineris certificate N° N°051166662001
CE Marking	Declaration of Conformity N°IND-CE-21092015-A (Prevectron [®] 3 Lightning conductor)
Underwriter Laboratories (UL)	UL Certified E478687 (Prevectron [®] 3 Lightning conductor)
Eco Label	AFAQ N°1335.2 11/2014 Certificate
ISO 9001 : 2015 (Quality System)	Bureau Veritas certificate

Dimensions (mm)



Accessory (not included)
Testing Remote Control réf P1591



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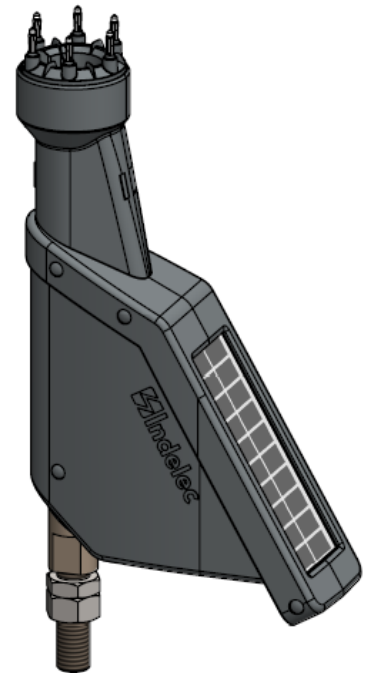
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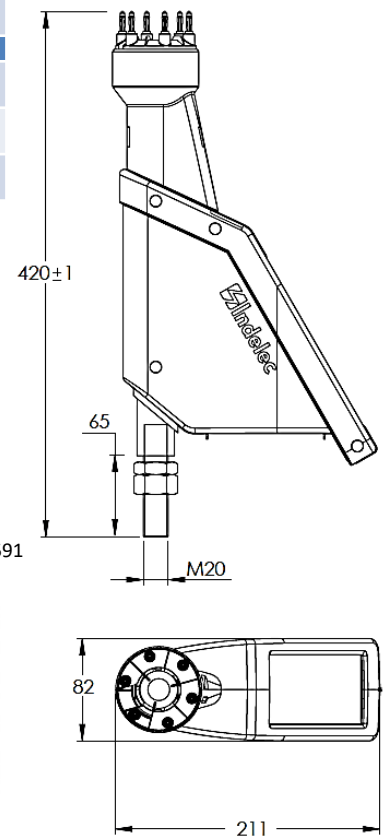
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PREVECTRON® 3 REMOTE TESTING MODULE

Reference	P1580 Remote Testing Module T
Specifications	
Adaptability	Plug & Play module for all 5 Prevectron®3 models Factory pairing based on the Prevectron®3 unit Serial Number
On-site testing capabilities	Remote testing Module réf.P1591 (not included) : -ESE Lightning conductor condition -Solar Remote Testing Unit battery level
Remote Testing Module / ESE Lightning Conductor Communication Protocol	Radio-frequency communication HF 2.4GHz Range = 100m/330 ft
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V
Battery Charge	Monocrystalline Glass-coated Solar panel
Remote Testing Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper
Remote Testing Module / Prevectron connection	Fast Connect Technology Plug-in system
Maintenance	Battery Replacement Kit ref. P1599
Warranty (excluding battery)	5 years
Packing	
Dimensions	470 x 250 x 165 mm
Gross Weight	2.900 kg
Certifications - Standards	
Qualifoudre	Ineris certificate N° N°051166662001
ISO 9001 : 2015	Bureau Veritas certificate
Eco Label	AFAQ N°1335.2 11/2014 Certificate



Dimensions (mm)



PREVECTRON 3®
(not included)



Remote Testing
Module



Installation Guide ref. C3839

Testing Remote Control ref P1591
(not included)



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PREVECTRON 3[®] S60 CONNECT

EARLY STREAMER EMISSION AIR TERMINAL (ESE)

IoT CONNECTED

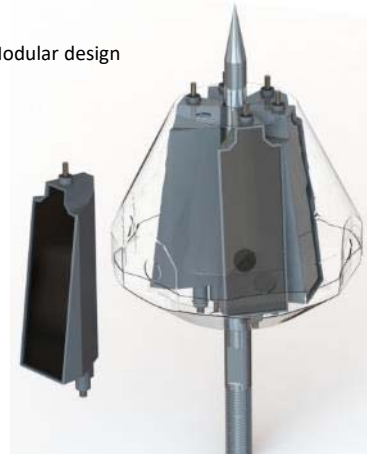
Reference	P1543C	
Prevectron 3[®] Early Streamer Emission Technical Specifications		
Efficiency	ΔT	60 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.44 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	230 kA (Unicamp)
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX [®] technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	6 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
Maintenance	Replaceable modules (factory)	

Prevectron 3[®] Connect Module Technical Specifications	
Prevectron [®] 3 Connect remote information	via www.indelec-connect.com : -ESE Lightning rod status -battery level -GSM signal quality
Communication	GSM/GPRS Quad-Band compatible 2G and above
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V
Battery Charge	Monocrystalline Glass-coated Solar panel
Lightning Strike Counter	Integrated Type 1 Lightning Strike Counter Patented contactless counting technology $I_{imp\ min} = 2kA$ $I_{imp\ max} = 100kA$
Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper
Module / Prevectron [®] 3 connection	Fast Connect Technology Plug-in system
Maintenance	Battery Replacement Kit ref. P1599

PREVECTRON 3[®] S60 CONNECT



Modular design



CONNECT MODULE



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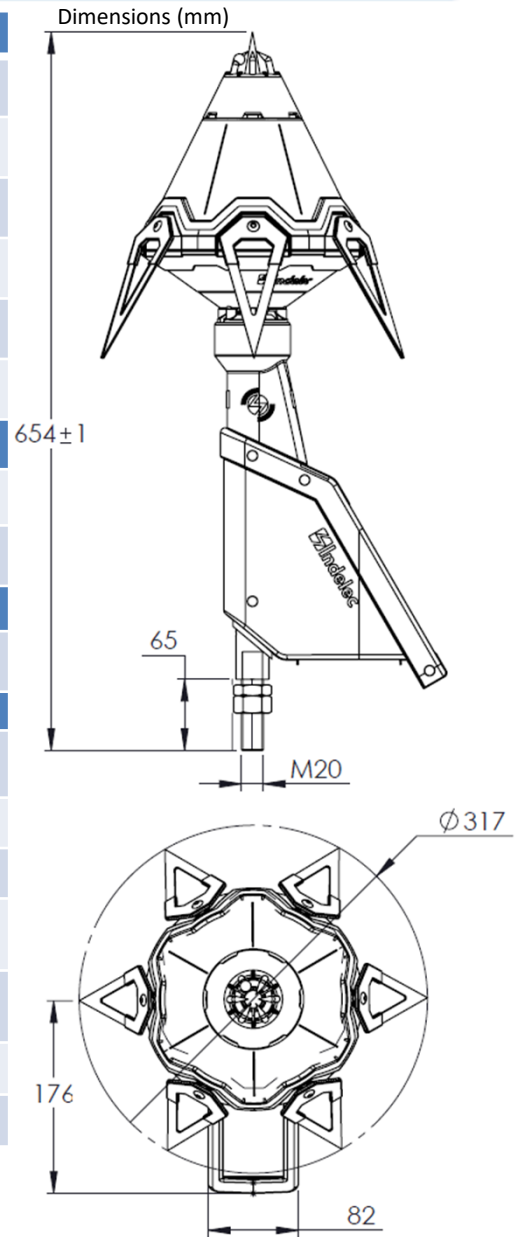


PREVECTRON 3[®] S60 CONNECT

EARLY STREAMER EMISSION AIR TERMINAL (ESE)

IoT CONNECTED

Operating Temperature range		-15°C to + 55°C
Relative Humidity		0% HR to 100% HR
Max. Operating Altitude		4000 m HASL (Height Above Sea Level)
Ingress Protection		IP 54
Fixing on pole		M20 Thread
Down-conductor clamp		Proprietary clamp included
Packing		
Dimensions		485 x 260 x 429 mm
Gross Weight		8.650 kg
Warranty		
Warranty (excluding battery)		5 years
Certifications - Standard		
Prevectron[®]3 Lightning Rod		NF C 17 102:2011, Annexe C Bureau Veritas Certificate N°6275241/2/1/1
Lightning Strike Counter		NF EN 62 561-6:2018 Edition 2
Qualifoudre		Ineris Certificate N° N°051166662001
CE Marking		Attestation N°IND-CE-21092015-A (Prevectron 3) Attestation N°IND-CE-16122020 (Module Connect)
Underwriter Laboratories (UL)		UL Certified E478687 (Prevectron [®] 3 Lightning rod)
Eco Label		Certificate AFAQ N°1335.2 11/2014
ISO 9001 : 2015		Bureau Veritas Certificate



Installation and user guide
ref. C4207



PREVECTRON 3[®] S60 CONNECT



www.indelec-connect.com

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PREVECTRON 3[®] S50 CONNECT

EARLY STREAMER EMISSION AIR TERMINAL (ESE)

IoT CONNECTED

Reference	P1533C	
Prevectron 3[®] Early Streamer Emission Technical Specifications		
Efficiency	ΔT	50 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.53 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	230 kA (Unicamp)
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX [®] technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	4 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
Maintenance	Replaceable modules (factory)	

Prevectron 3[®] Connect Module Technical Specifications	
Prevectron [®] 3 Connect remote information	via www.indelec-connect.com : -ESE Lightning rod status -battery level -GSM signal quality
Communication	GSM/GPRS Quad-Band compatible 2G and above
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V
Battery Charge	Monocrystalline Glass-coated Solar panel
Lightning Strike Counter	Integrated Type 1 Lightning Strike Counter Patented contactless counting technology $I_{imp\ min} = 2kA$ $I_{imp\ max} = 100kA$
Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper
Module / Prevectron [®] 3 connection	Fast Connect Technology Plug-in system
Maintenance	Battery Replacement Kit ref. P1599

PREVECTRON 3[®] S50 CONNECT



Modular design



CONNECT MODULE



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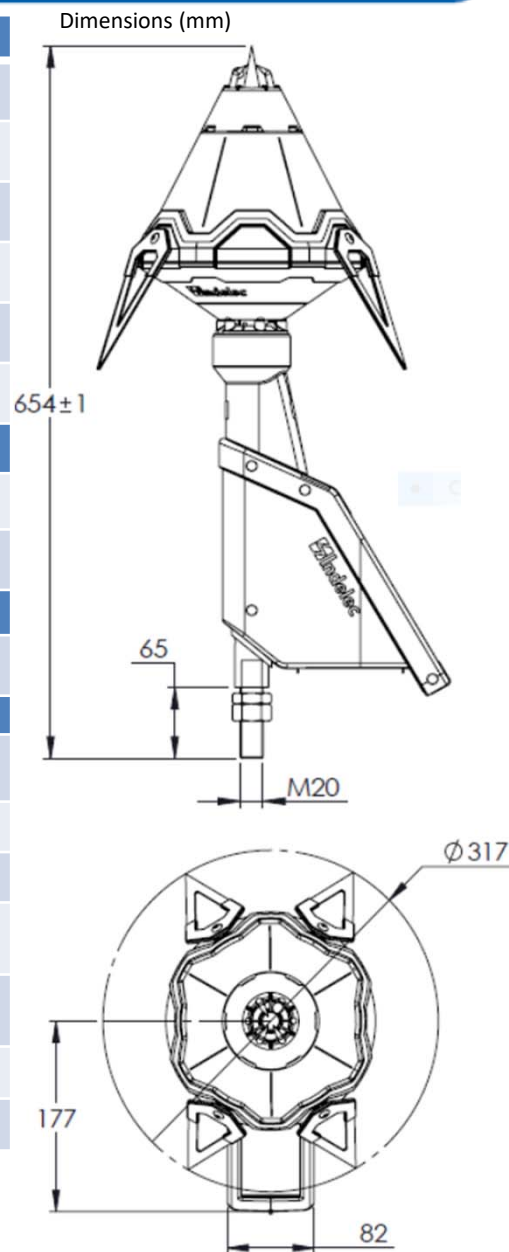



PREVECTRON 3[®] S50 CONNECT

EARLY STREAMER EMISSION AIR TERMINAL (ESE)

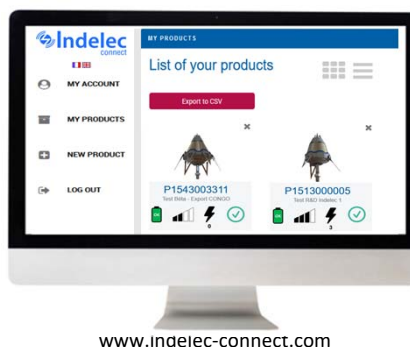
IoT CONNECTED

Operating Temperature range		-15°C to + 55°C
Relative Humidity		0% HR to 100% HR
Max. Operating Altitude		4000 m HASL (Height Above Sea Level)
Ingress Protection		IP 54
Fixing on pole		M20 Thread
Down-conductor clamp		Proprietary clamp included
Packing		
Dimensions		485 x 260 x 429 mm
Gross Weight		8.050 kg
Warranty		
Warranty (excluding battery)		5 years
Certifications - Standard		
Prevectron[®]3 Lightning Rod		NF C 17 102:2011, Annexe C Bureau Veritas Certificate N°6275241/2/1/2
Lightning Strike Counter		NF EN 62 561-6:2018 Edition 2
Qualifoudre		Ineris Certificate N° N°051166662001
CE Marking		Attestation N°IND-CE-21092015-B (Prevectron 3) Attestation N°IND-CE-16122020 (Module Connect)
Underwriter Laboratories (UL)		UL Certified E478687 (Prevectron [®] 3 Lightning rod)
Eco Label		Certificate AFAQ N°1335.2 11/2014
ISO 9001 : 2015		Bureau Veritas Certificate



 Installation and user guide
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PREVECTRON 3[®] S50 CONNECT



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PREVECTRON 3[®] S40 CONNECT

EARLY STREAMER EMISSION AIR TERMINAL (ESE)

IoT CONNECTED

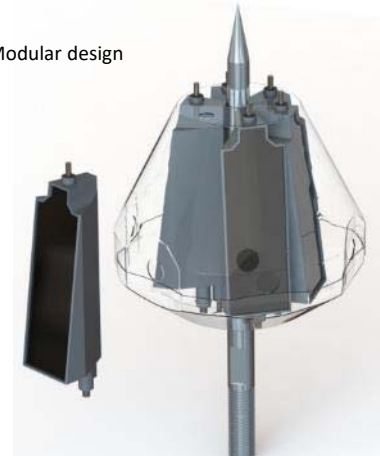
Reference	P1523C	
Prevectron 3[®] Early Streamer Emission Technical Specifications		
Efficiency	ΔT	40 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.57 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	230 kA (Unicamp)
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX [®] technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	3 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
Maintenance	Replaceable modules (factory)	

Prevectron 3[®] Connect Module Technical Specifications	
Prevectron [®] 3 Connect remote information	via www.indelec-connect.com : -ESE Lightning rod status -battery level -GSM signal quality
Communication	GSM/GPRS Quad-Band compatible 2G and above
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V
Battery Charge	Monocrystalline Glass-coated Solar panel
Lightning Strike Counter	Integrated Type 1 Lightning Strike Counter Patented contactless counting technology $I_{imp\ min} = 2kA$ $I_{imp\ max} = 100kA$
Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper
Module / Prevectron [®] 3 connection	Fast Connect Technology Plug-in system
Maintenance	Battery Replacement Kit ref. P1599

PREVECTRON 3[®] S40 CONNECT



Modular design



CONNECT MODULE



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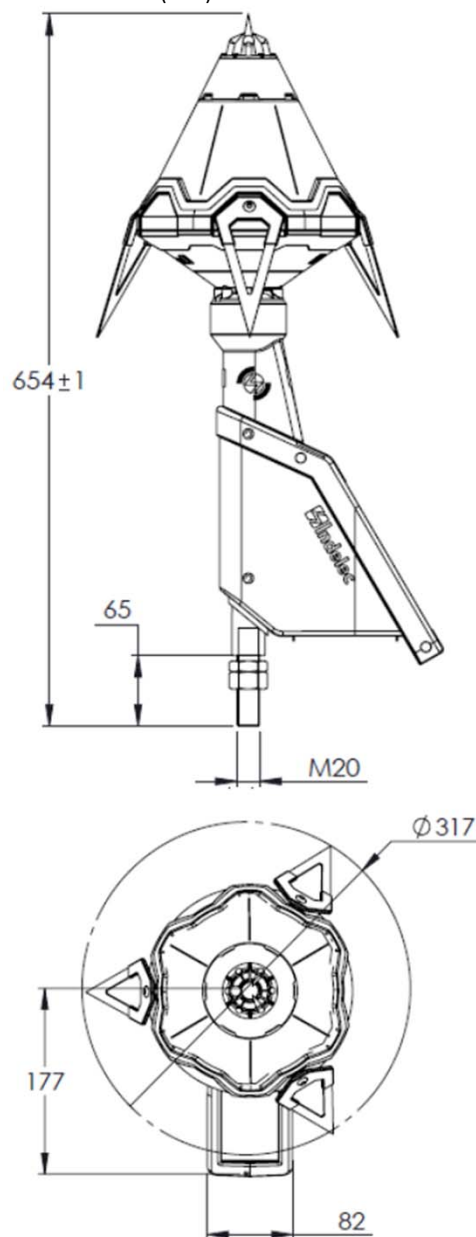
PREVECTRON 3[®] S40 CONNECT

EARLY STREAMER EMISSION AIR TERMINAL (ESE)

IoT CONNECTED

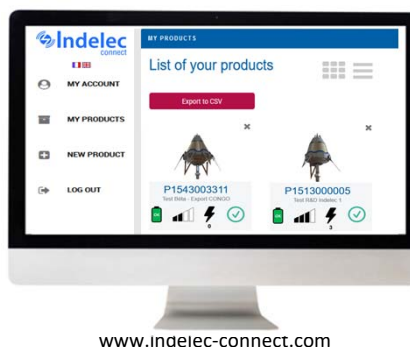
Operating Temperature range	-15°C to + 55°C
Relative Humidity	0% HR to 100% HR
Max. Operating Altitude	4000 m HASL (Height Above Sea Level)
Ingress Protection	IP 54
Fixing on pole	M20 Thread
Down-conductor clamp	Proprietary clamp included
Packing	
Dimensions	485 x 260 x 429 mm
Gross Weight	7.750 kg
Warranty	
Warranty (excluding battery)	5 years
Certifications - Standard	
Prevectron [®] 3 Lightning Rod	NF C 17 102:2011, Annexe C Bureau Veritas Certificate N°6275241/2/1/3
Lightning Strike Counter	NF EN 62 561-6:2018 Edition 2
Qualifoudre	Ineris Certificate N° N°051166662001
CE Marking	Attestation N°IND-CE-21092015-C (Prevectron 3) Attestation N°IND-CE-16122020 (Module Connect)
Underwriter Laboratories (UL)	UL Certified E478687 (Prevectron [®] 3 Lightning rod)
Eco Label	Certificate AFAQ N°1335.2 11/2014
ISO 9001 : 2015	Bureau Veritas Certificate

Dimensions (mm)



Installation and user guide
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PREVECTRON 3[®] S40 CONNECT



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PREVECTRON 3[®] TS25 CONNECT

EARLY STREAMER EMISSION AIR TERMINAL (ESE)

IoT CONNECTED

Reference	P1513C	
Prevectron 3[®] Early Streamer Emission Technical Specifications		
Efficiency	ΔT	25 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.65 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	230 kA (Unicamp)
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX [®] technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	3 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
Maintenance	Replaceable modules (factory)	

Prevectron 3[®] Connect Module Technical Specifications	
Prevectron [®] 3 Connect remote information	via www.indelec-connect.com : -ESE Lightning rod status -battery level -GSM signal quality
Communication	GSM/GPRS Quad-Band compatible 2G and above
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V
Battery Charge	Monocrystalline Glass-coated Solar panel
Lightning Strike Counter	Integrated Type 1 Lightning Strike Counter Patented contactless counting technology $I_{imp \min} = 2kA$ $I_{imp \max} = 100kA$
Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper
Module / Prevectron [®] 3 connection	Fast Connect Technology Plug-in system
Maintenance	Battery Replacement Kit ref. P1599

PREVECTRON 3[®] TS25 CONNECT



Modular design



CONNECT MODULE



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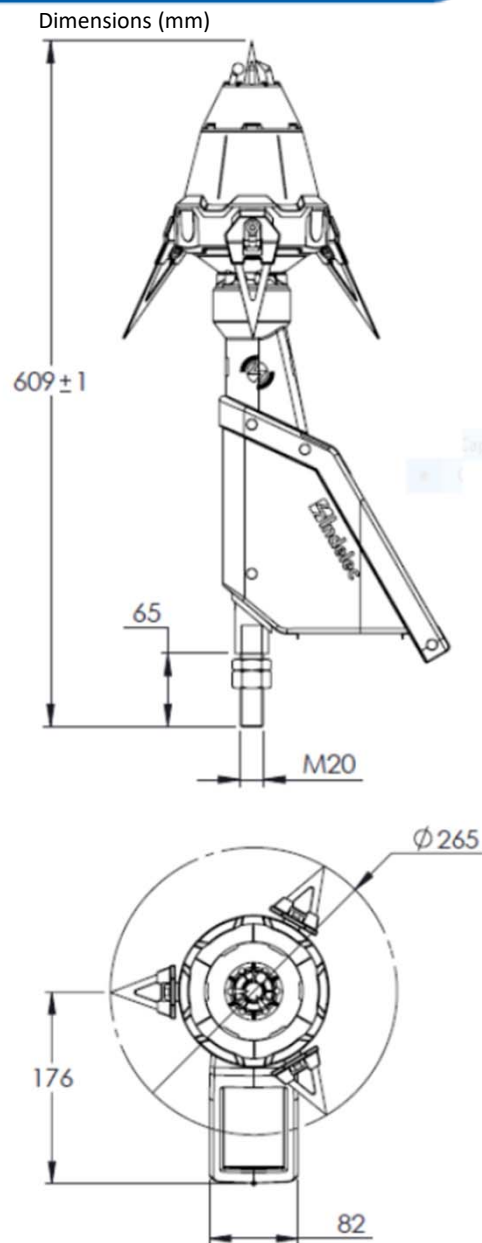


PREVECTRON 3[®] TS25 CONNECT

EARLY STREAMER EMISSION AIR TERMINAL (ESE)

IoT CONNECTED

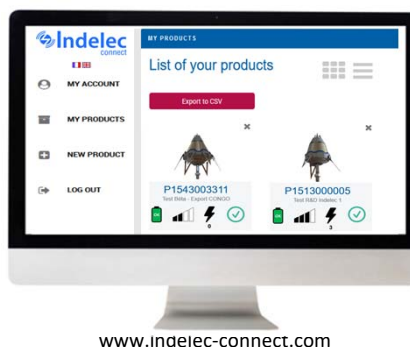
Operating Temperature range		-15°C to + 55°C
Relative Humidity		0% HR to 100% HR
Max. Operating Altitude		4000 m HASL (Height Above Sea Level)
Ingress Protection		IP 54
Fixing on pole		M20 Thread
Down-conductor clamp		Proprietary clamp included
Packing		
Dimensions		485 x 260 x 429 mm
Gross Weight		7.050 kg
Warranty		
Warranty (excluding battery)		5 years
Certifications - Standard		
Prevectron[®]3 Lightning Rod	NF C 17 102:2011, Annexe C Bureau Veritas Certificate N°6275241/2/1/4	
Lightning Strike Counter	NF EN 62 561-6:2018 Edition 2	
Qualifoudre	Ineris Certificate N° N°051166662001	
CE Marking	Attestation N°IND-CE-21092015-D (Prevectron 3) Attestation N°IND-CE-16122020 (Module Connect)	
Underwriter Laboratories (UL)	UL Certified E478687 (Prevectron [®] 3 Lightning rod)	
Eco Label	Certificate AFAQ N°1335.2 11/2014	
ISO 9001 : 2015	Bureau Veritas Certificate	



Installation and user guide
ref. C4207



PREVECTRON 3[®] TS25 CONNECT



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PREVECTRON 3[®] TS10 CONNECT

EARLY STREAMER EMISSION AIR TERMINAL (ESE)

IoT CONNECTED

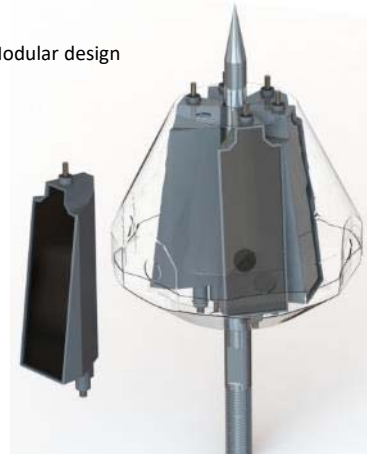
Reference	P1503C	
Prevectron 3[®] Early Streamer Emission Technical Specifications		
Efficiency	ΔT	10 μs
Standard deviation ESE / Single Rod	σ	$\sigma_{PDA} < 0.75 \sigma_{PTS}$
Lightning current withstanding test (10/350 μs)	I_{imp}	100kA (normative test)
Max. current withstanding test	I_{max}	230 kA (Unicamp)
Detection of downward leader	Continuous measuring of electric field gradient ($\Delta E/\Delta t$)	
Upward streamer development conditions	Patented OPTIMAX [®] technology optimizing the streamer development conditions	
Upward streamer emission	Sparking by High Voltage Impulses	
Internal circuits	2 independent and synchronised modules	
Central rod	Full electrical continuity 200mm ² section – Nickel plated Copper	
Metal housing	Stainless Steel 316, Electromagnetic shielding	
Maintenance	Replaceable modules (factory)	

Prevectron 3[®] Connect Module Technical Specifications	
Prevectron [®] 3 Connect remote information	via www.indelec-connect.com : -ESE Lightning rod status -battery level -GSM signal quality
Communication	GSM/GPRS Quad-Band compatible 2G and above
Power Supply	High Performance LiFePo ₄ Battery 3 200mA.h – 3.2V
Battery Charge	Monocrystalline Glass-coated Solar panel
Lightning Strike Counter	Integrated Type 1 Lightning Strike Counter Patented contactless counting technology $I_{imp\ min} = 2kA$ $I_{imp\ max} = 100kA$
Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper
Module / Prevectron [®] 3 connection	Fast Connect Technology Plug-in system
Maintenance	Battery Replacement Kit ref. P1599

PREVECTRON 3[®] TS10 CONNECT



Modular design



CONNECT MODULE



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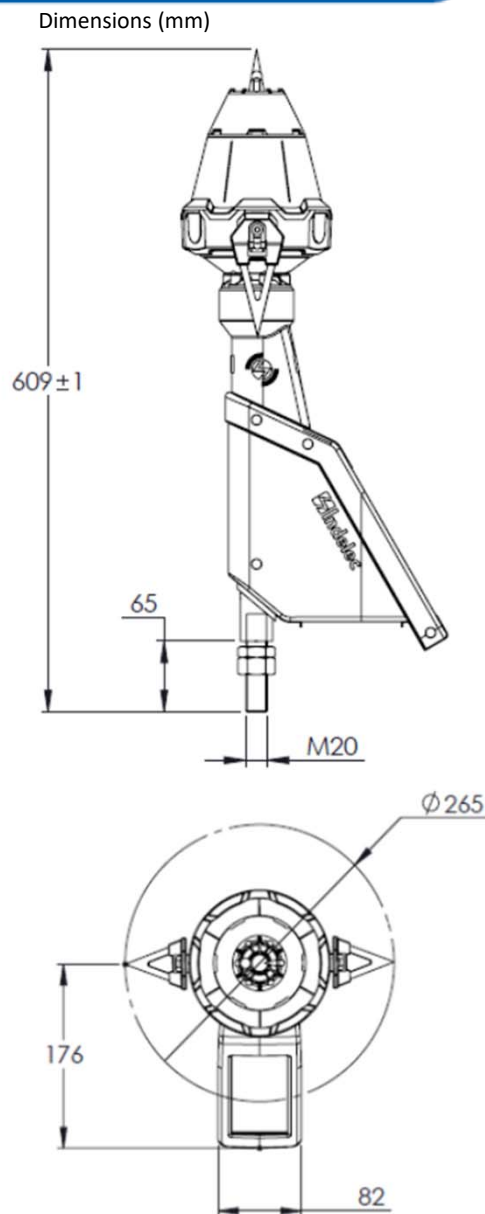


PREVECTRON 3[®] TS10 CONNECT

EARLY STREAMER EMISSION AIR TERMINAL (ESE)

IoT CONNECTED

Operating Temperature range		-15°C to + 55°C
Relative Humidity		0% HR to 100% HR
Max. Operating Altitude		4000 m HASL (Height Above Sea Level)
Ingress Protection		IP 54
Fixing on pole		M20 Thread
Down-conductor clamp		Proprietary clamp included
Packing		
Dimensions		485 x 260 x 429 mm
Gross Weight		6.750 kg
Warranty		
Warranty (excluding battery)		5 years
Certifications - Standard		
Prevectron[®]3 Lightning Rod		NF C 17 102:2011, Annexe C Bureau Veritas Certificate N°6275241/2/1/5
Lightning Strike Counter		NF EN 62 561-6:2018 Edition 2
Qualifoudre		Ineris Certificate N° N°051166662001
CE Marking		Attestation N°IND-CE-21092015-E (Prevectron 3) Attestation N°IND-CE-16122020 (Module Connect)
Underwriter Laboratories (UL)		UL Certified E478687 (Prevectron [®] 3 Lightning rod)
Eco Label		Certificate AFAQ N°1335.2 11/2014
ISO 9001 : 2015		Bureau Veritas Certificate



Installation and user guide
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PREVECTRON 3[®] TS10 CONNECT



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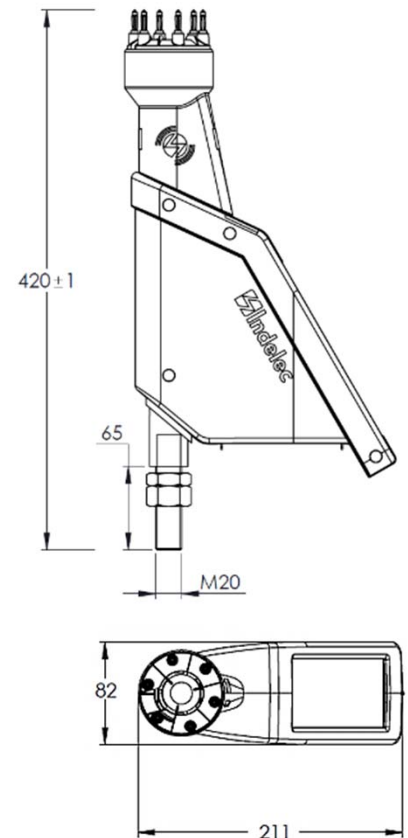
PREVECTRON® 3 CONNECT MODULE

IoT CONNECTED

Reference	P1586
Specifications	
Adaptability	Plug & Play module for all 5 Prevectron®3 models -- Factory pairing based on the Prevectron®3 unit Serial Number
Prevectron®3 Connect remote information	via www.indelec-connect.com : -ESE Lightning rod status -battery level -GSM signal quality
Communication	GSM/GPRS Quad-Band compatible 2G and above
Power Supply	High Performance LiFePo4 Battery 3 200mA.h – 3.2V
Battery Charge	Monocrystalline Glass-coated Solar panel
Lightning Strike Counter	Integrated Type 1 Lightning Strike Counter Patented contactless counting technology $I_{imp\ min} = 2kA$ $I_{imp\ max} = 100kA$
Module central rod	Full electrical continuity 200mm ² section – Nickel plated Copper
Module / Prevectron connection	Fast Connect Technology Plug-in system
Operating Temperature range	-15°C to + 55°C
Relative Humidity	0% HR to 100% HR
Max. Operating Altitude	4000 m HASL (Height Above Sea Level)
Ingress Protection	IP 54
Fixing on pole	M20 Thread
Maintenance	Battery Replacement Kit réf. P1599
Warranty (excluding battery)	5 years
Packing	
Dimensions	470 x 250 x 165 mm
Gross Weight	3.000 kg
Certifications - Standards	
Qualifoudre	Ineris certificate N° N°051166662001
ISO 9001 : 2015	Bureau Veritas certificate
Lightning Flash Counter	NF EN 62 561-6:2018 Edition 2
CE Marking	Attestation N°IND-CE-16122020
Eco Label	AFAQ N°1335.2 11/2014 Certificate



Dimensions (mm)



PREVECTRON 3®
(not included)



CONNECT
MODULE



Installation and user guide
ref. C4207

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PREVECTRON® 3 REMOTE TESTING MODULE BATTERY

Reference	P1599 Remote Testing Module Battery
Specifications	
Nominal Capacity	3200 mAh @0.2C
Minimum Capacity	3200 mAh @0.2C
Nominal Voltage	3.20V
Max Charging voltage	3.65 ±0.05V
Discharge Ending voltage	2.00 ±0.05V
Standard charge current	0.5C
Max charge current	1C
Max discharge current	3C
Max recommended charge & discharge cell surface temperature	Charge : 0 ~ 45°C Discharge : -20 ~ 60°C
Storage temperature & Time	1 year : -20 ~ 25°C 3 months : -20 ~ 45°C 1 month : -20 ~ 60°C
Internal Resistance	≤ 2*mΩ (AC impedance 1000 Hz)
Packing	
Dimensions	90 x 50 x 36 mm
Gross Weight	0.195 kg
Warning and cautions in handling the lithium-ion cell	
To prevent the possibility of the cell from leaking, heating, explosion, please observe the following precautions:	<ul style="list-style-type: none"> • Don't immerse the cell in water. • Don't use and leave the cell near a heat source such as fire or heater. • When charging, use a cell charger specifically for that purpose. • Don't reverse the positive and negative terminals. • Don't connect the cell to an electrical outlet directly. • Don't discard the cell in fire or heater. • Don't connect the positive and negative terminal directly with metal objects. • Don't transport and store the cell together with metal objects such as necklaces, hairpins. • Don't strike, throw or trample the cell. • Don't pierce the cell with a nail or other sharp object.



Battery cover



Battery kit Ref. P1599



DOC280a.VEN-Rev0



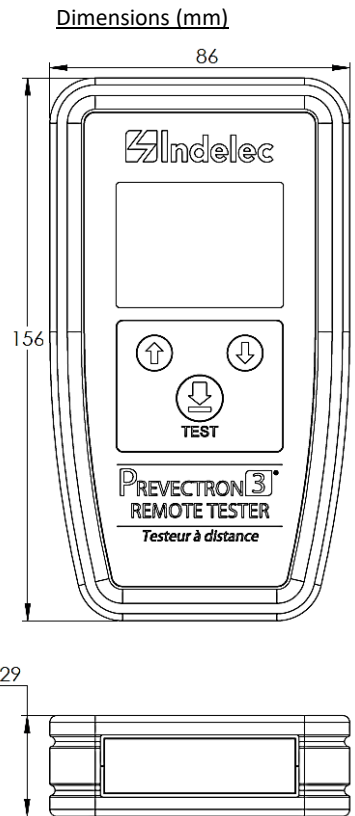
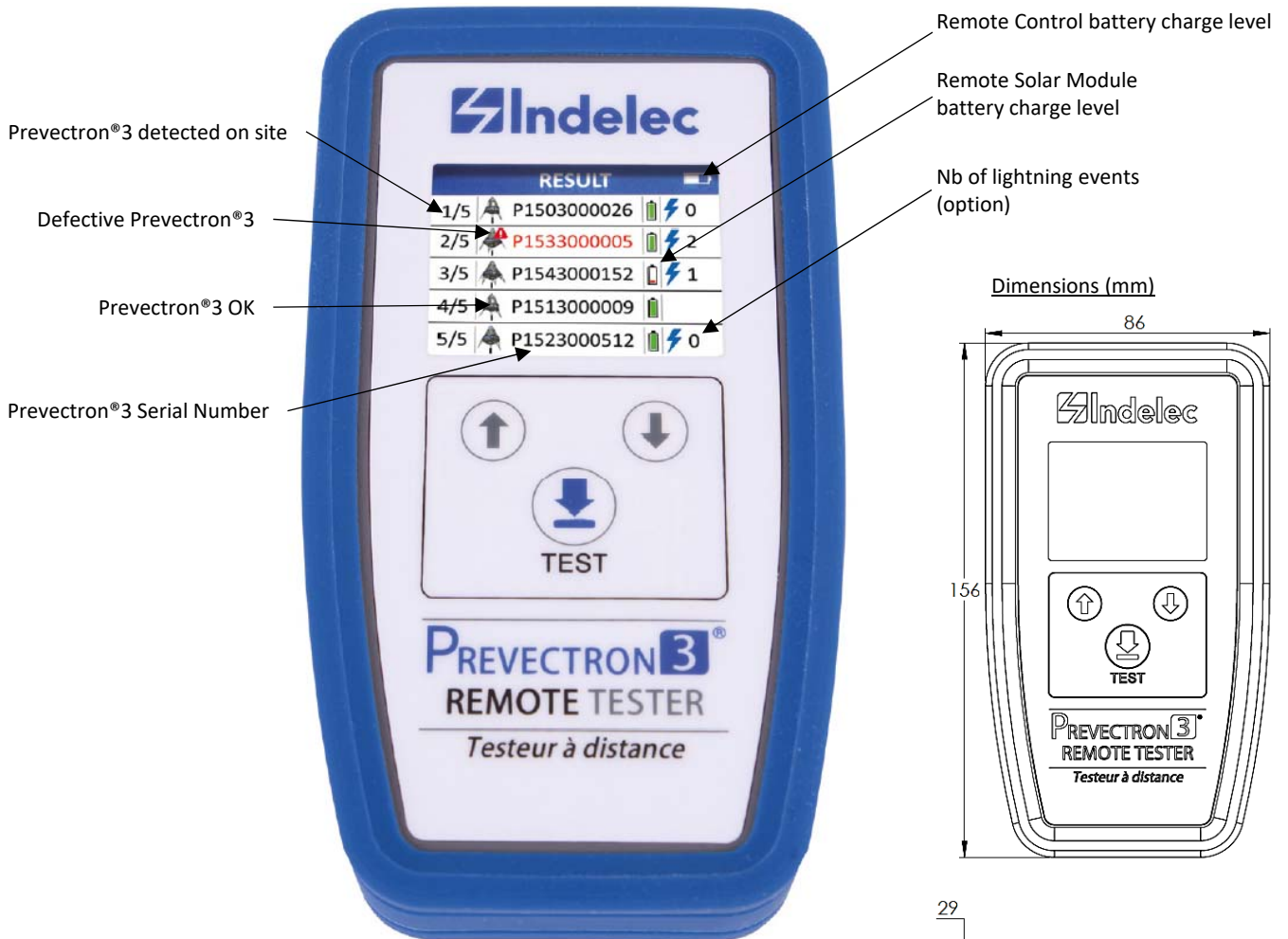
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PREVECTRON® 3 TESTING REMOTE CONTROL

Reference	P1591
Application	Test all Prevectron®3 T Lightning Conductors detected on site.
Communication Protocol	Radio-frequency communication HF 2.4GhZ Range > 100m/330 ft
Gross Weight (kg)	0.290 kg
Power	3 units of LR6 – AA 1.5V Battery
Warranty	12 months



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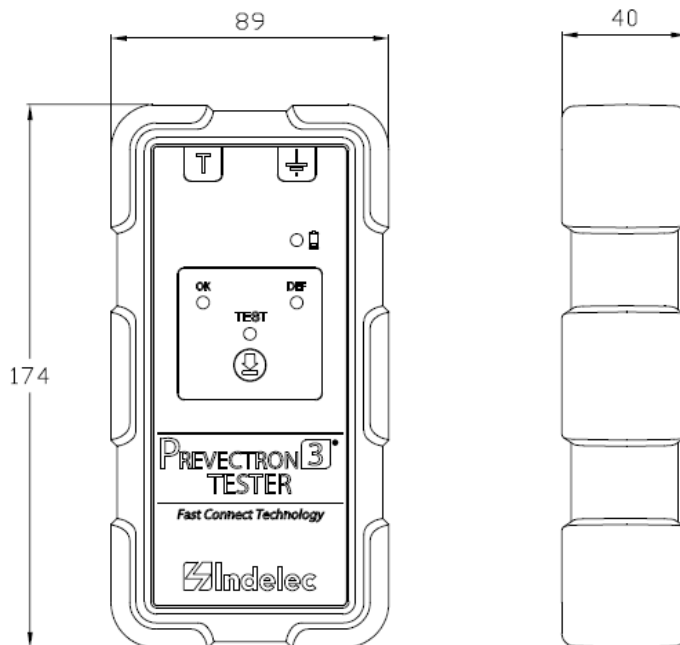


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PREVECTRON® 3 Tester Fast Connect Technology

Réf.	P1590
Weight (kg)	0.415
Application	<p>The tester has been specially designed for a perfect portability for both installation and routing maintenance purposes.</p> <p>It is supplied with isolated cables and transport bag. Thanks to its unique "Fast connect technology", each circuit condition is now tested through a single connection point.</p>
Power	Four 1.5V AA type batteries.
Warranty	12 months

Dimensions (mm)



Application



Contents:

- Transport bag with INDELEC logo
- Indelec « Fast Connect Technology » Tester
- Yellow cable + crocodile clip (Earth)
- Black cable + plug (Prevectron®3 circuits)



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Lightning Protection Systems

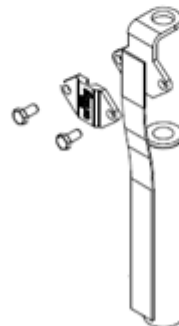
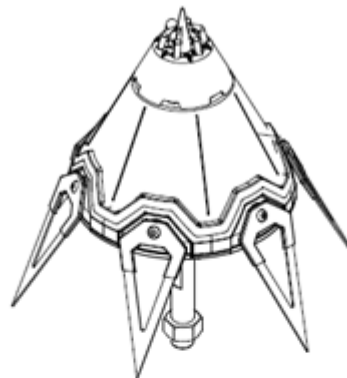
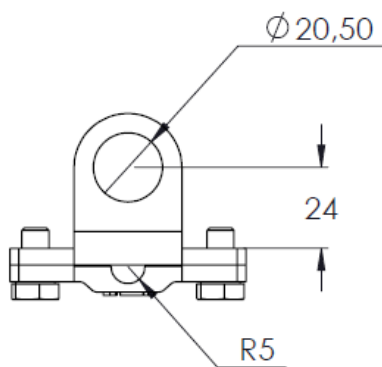
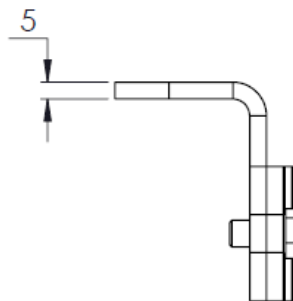
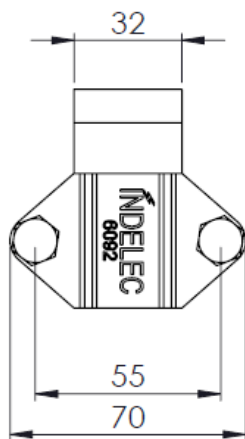
Made
n
Safety

PREVECTRON® / Down Conductor Adaptor

Ref.	P6500
Material	Tinned copper
Weight (kg)	0.750
Application	Connect down conductor to central rod of PREVECTRON Air Terminal
Standard	EN 62561-1



Dimensions (mm)



Application

DOC170a.VEN-Rev0



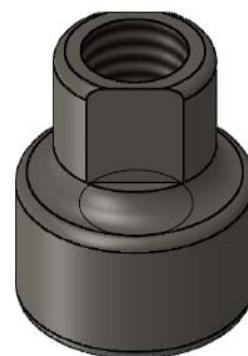
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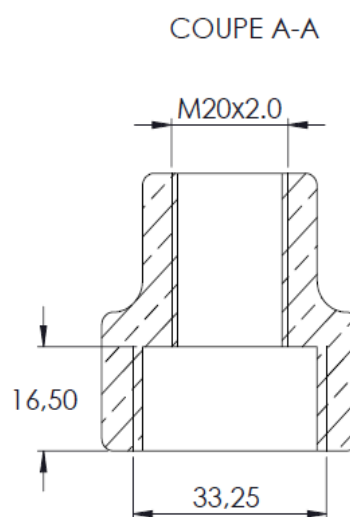
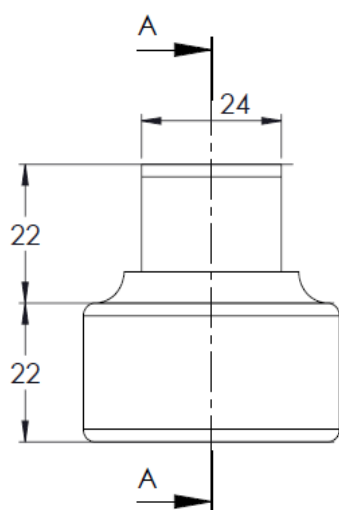
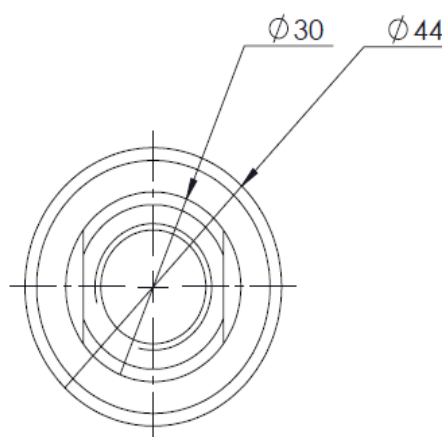
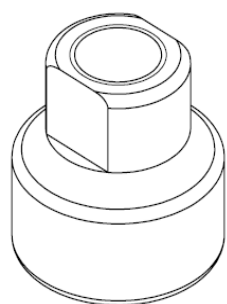
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Adaptor Female M20 / Female G34

Characteristics	C2433
Material	Brass
Weight (kg)	0.220
Application	Fixing PREVECTRON® on a G34 threaded pole



Dimensions (mm)



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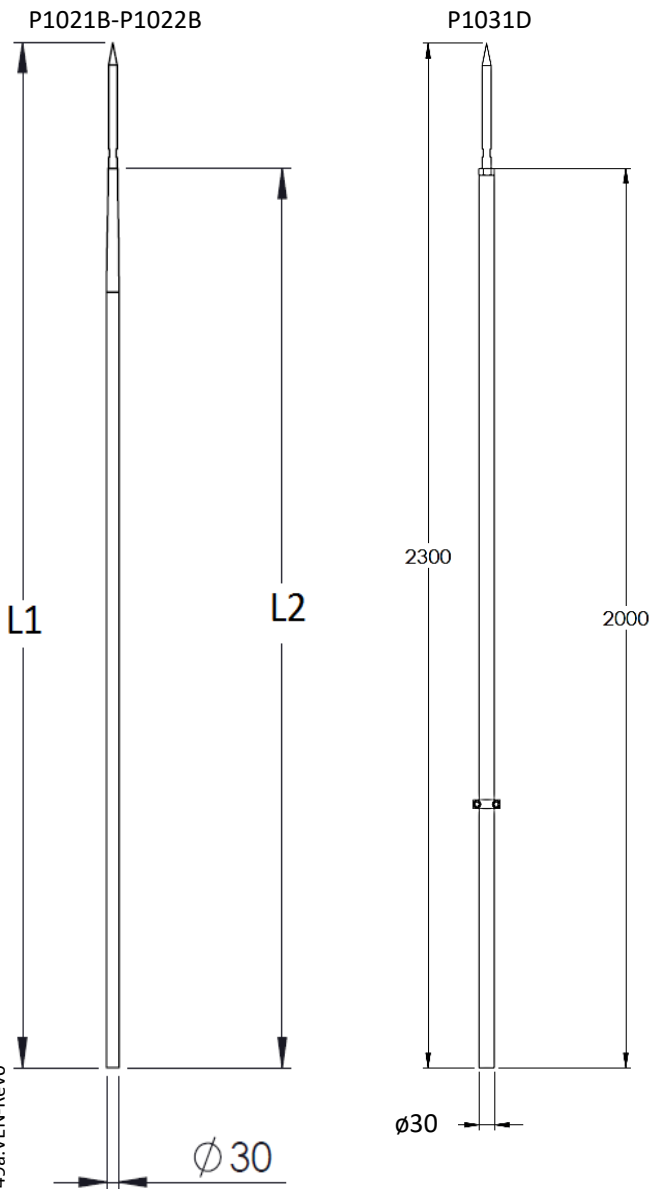


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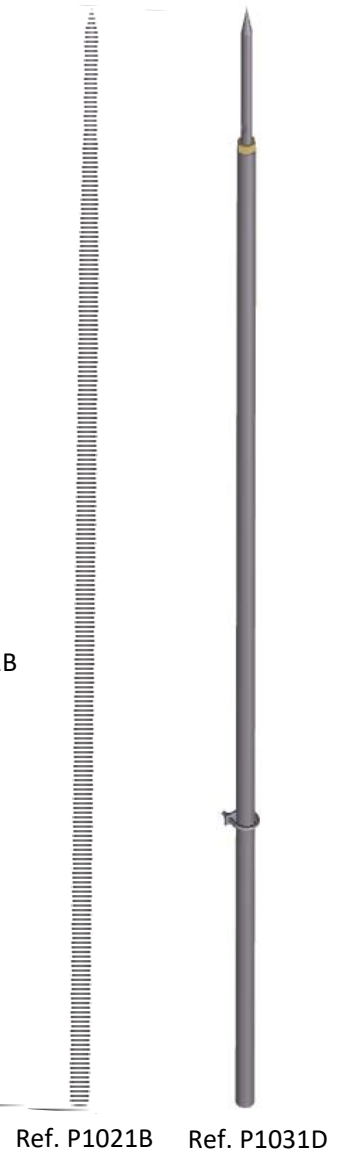
Single Rods

Characteristics	P1021B	P1022B	P1031D
Material	Chromium plated copper		Stainless steel
L1 (mm)	2300 mm	1300 mm	2300 mm
L2 (mm)	2000 mm	1000 mm	2000 mm
Weight (kg)	3.500	2.340	3.000
Connection	With a connecting clamp ref. P3095 / P3096 (not included)		connecting clamp included
Standard	EN 62561-2		

Dimensions (mm)



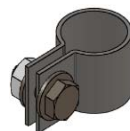
Ref. P1022B



Ref. P1021B

Ref. P1031D

Accessories



Ref. P3095
Rod to flat conductor
connecting clamp



Ref. P3096
Rod to round conductor
connecting clamp



Ref. P1031D
connecting clamp for flat
conductor included

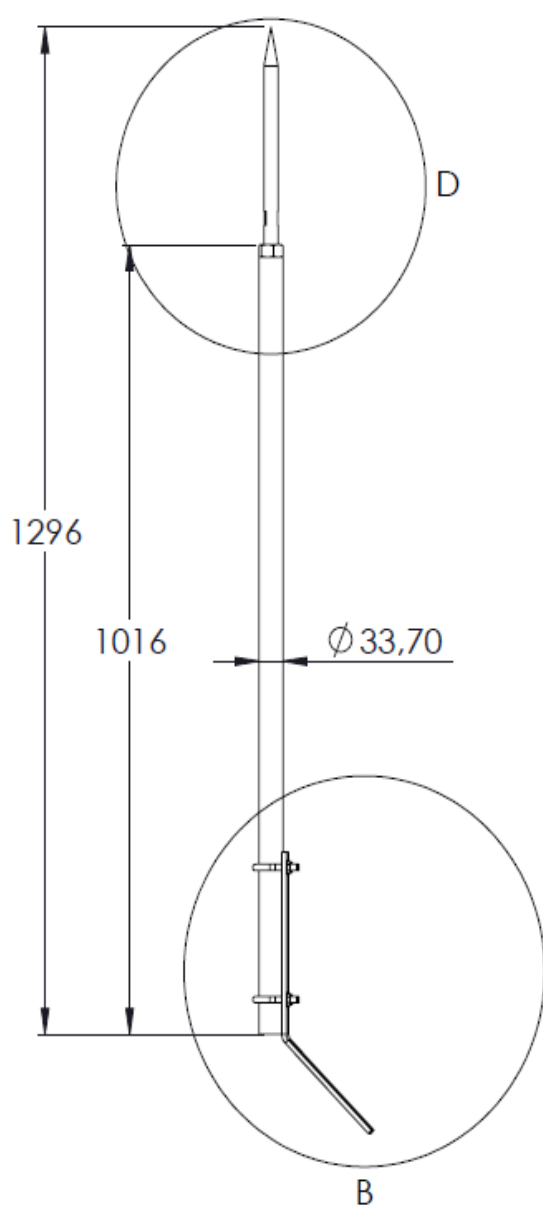
DOC149a.VEN-Rev0



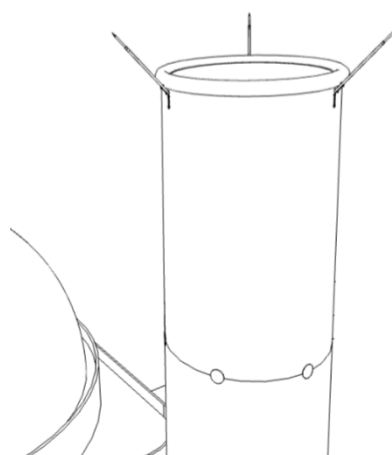
Stainless Steel Air Rod Special Chimney

Characteristics	P1041C
Material	Stainless steel
Weight (Kg)	3.460
Connection	With a connecting clamp (included)
Application	Protection of industrial chimney
Standard	EN 62561-2

Dimensions (mm)



Application



DOC150a.VEN-Rev0



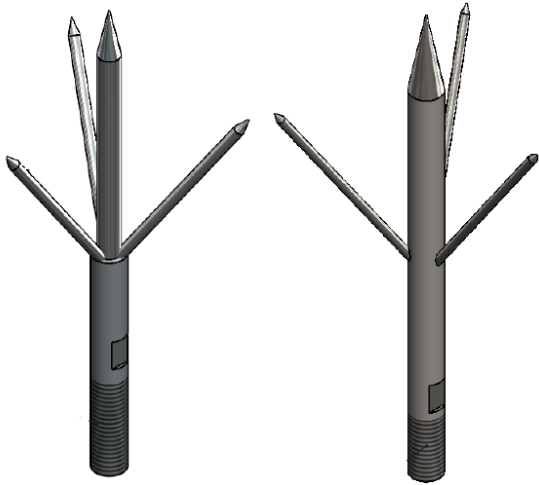
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Jupiter Multi-Point Air Rod

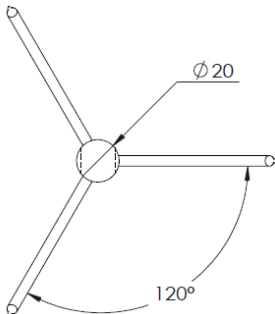
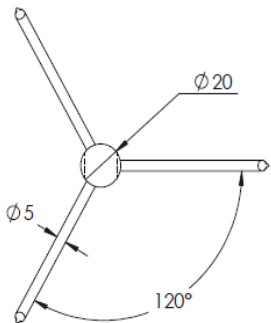
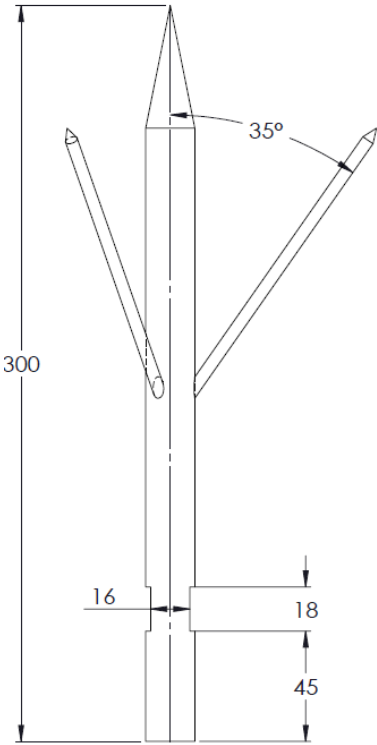
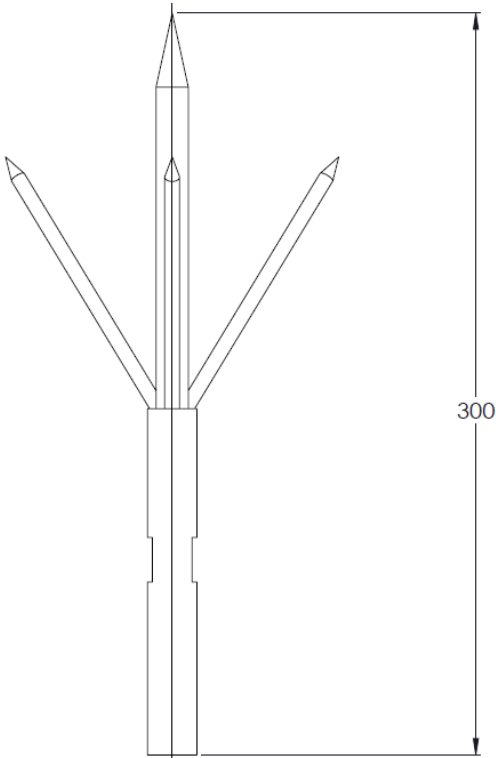
Characteristics	P1052B	P1053C
Material	Chromium plated copper	Stainless steel
Weight (kg)	0.600	0.700
Connection	Thread M20	
Standards	EN 62561-2	



P1052B

P1053C

Dimensions (mm)



DOC151a.VEN-Rev0



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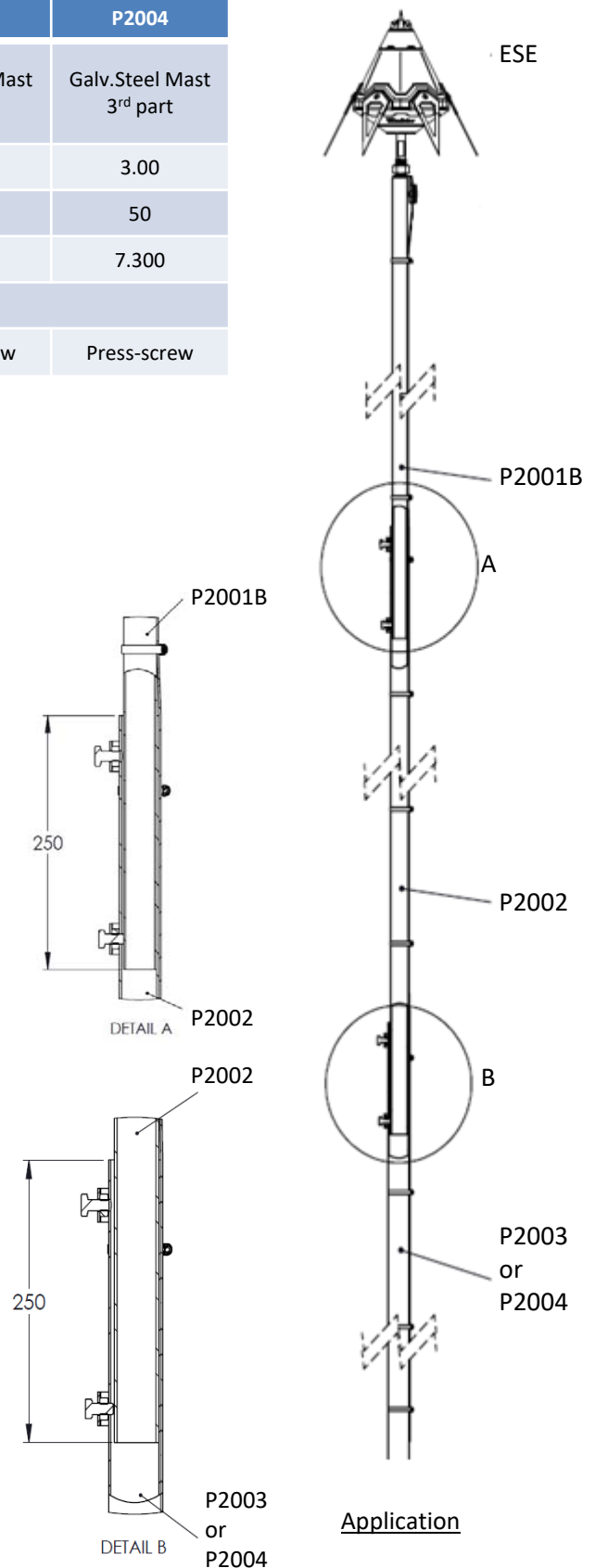
Galvanized Steel Elevation Mast

Characteristics	P2001B	P2002	P2003	P2004
Description	Galv.Steel Mast 1 st part	Galv.Steel Mast 2 nd part	Galv.Steel Mast 3 rd part	Galv.Steel Mast 3 rd part
Length (m)	2.00	2.00	2.00	3.00
Diameter(mm)	35	42	50	50
Weight (kg)	3.250	5.000	4.700	7.300
Material	Galvanized steel			
Connection	Tapped M20	Press-screw	Press-screw	Press-screw

Made of special «high resistance» steel and galvanized inside and out, Indelec's elevation poles allow the lightning rod (PREVECTRON® E.S.E., Indelec multiple rod or Pointed Air Rod) to be raised by up to 6,5 m without resorting to guy wires.

The telescopic sections are fixed together by two stainless steel press-screws. The lightning rod is screwed at the top of the first section (P2001B).

Assembly	
Mast 3.75m	P2001B + P2002
Mast 5.50m	P2001B + P2002 + P2003
Mast 6.50m	P2001B + P2002 + P2004

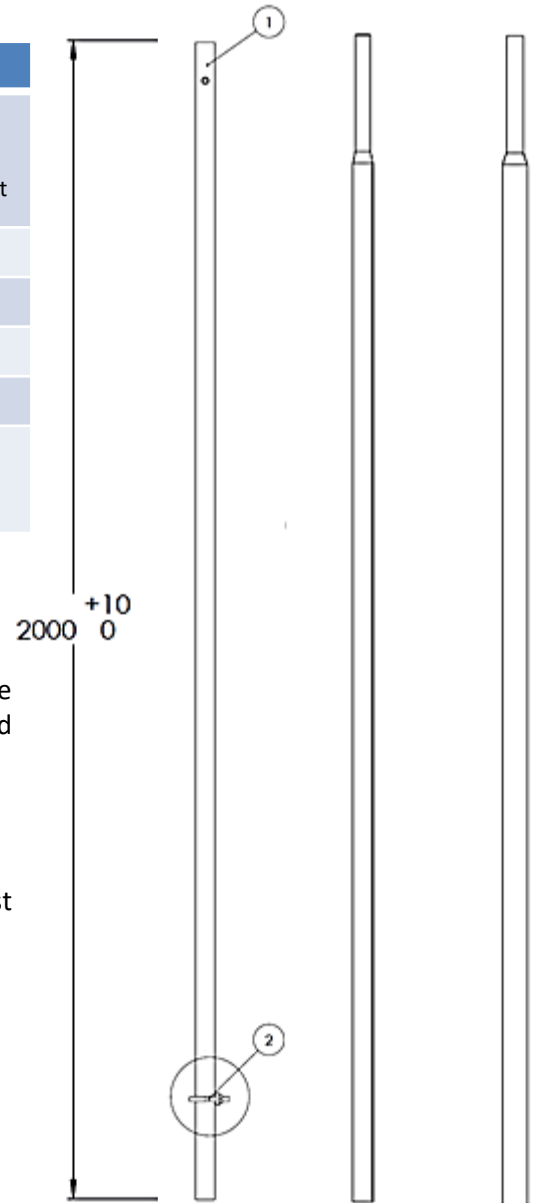


DOC171a.VEN-Rev1



Stainless Steel Elevation Mast

Characteristics	P2015	P2016	P2017	P2018
Designation	Elevation Mast 1 st element	Elevation Mast 1 st element with clamp	Elevation Mast 2 nd element	Elevation Mast 3 rd element
Length (m)	2.00	2.00	2.00	2.00
Diameter (mm)	30	30	33.7	42.4
Weight (kg)	2.5	2.5	4.0	5.0
Material	Stainless Steel – 304L			
Connection	Thread M20	Thread M2	Necked tube Ø25,2mm	Necked tube Ø28mm



Made of 304L stainless steel, Indelec's elevation poles enable the lightning rod (PREVECTRON® E.S.E., Indelec multiple rod or Pointed Air Rod) to be raised by up to 6 m without resorting to guy wires.

The telescopic sections are fixed together by male-female fitting.

The lightning rod is screwed (M20 thread) at the top of the first section (P2015 or 2016).

Detail 1
Upper termination
P2015



Detail 2
Included Clamp
P2016



Necked tube
P2017 & P2018



Assembly	
Mast 3.80m	P2015 or 2016 + P2017
Mast 5.50m	P2015 or 2016 + P2017 + 2018

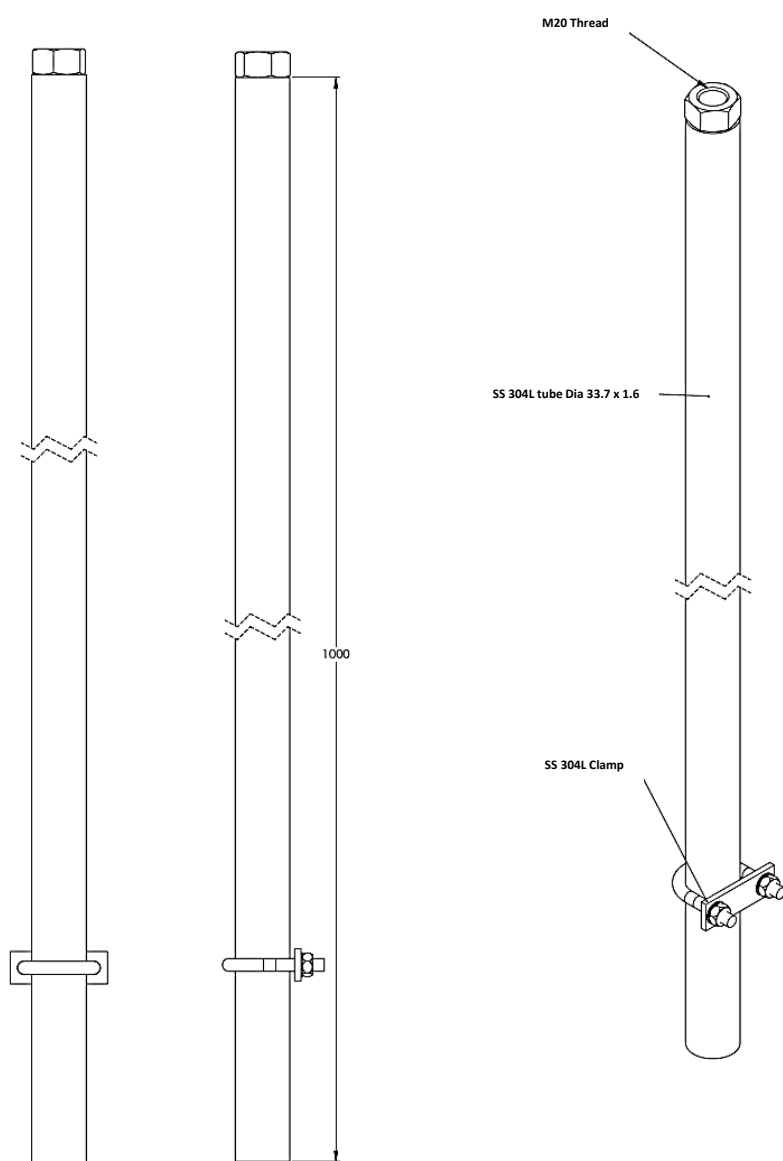
DOC172a.VEN-Rev1



Stainless Steel Elevation Mast – 1m

Characteristics	C1836C
Material	Stainless Steel 304L
Weight (kg)	1.600
Connection	Clamp included
Termination	M20 Thread
Application	M20 Lightning Rod fixing

Dimensions (mm)



Application
M20 Threaded Lightning Rod fixing

DOC138a.VEN-Rev0



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Range of Steel Towers

Design and manufacturing in France of lattice towers based on your technical specifications:

- ✓ Wind velocity
- ✓ Wind surface
- ✓ Geotechnical characteristics

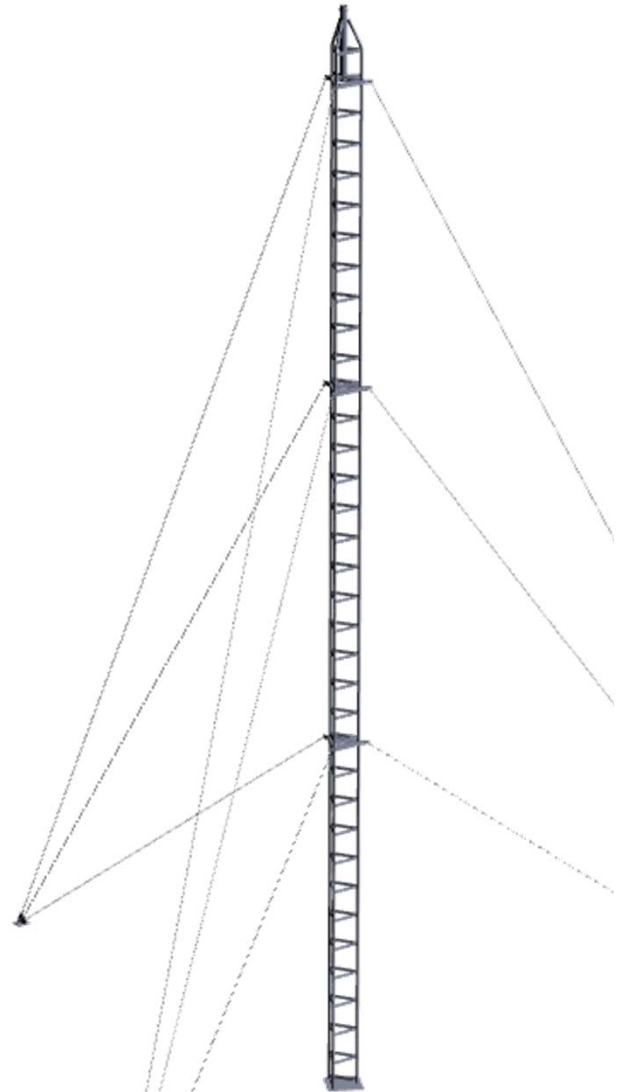
- Self-standing towers up to 36 meters
- Light self-standing masts up to 20 meters
- Guyed towers up to 60 meters
- Lightning conductor elevation masts



Self-standing tower



Light self-standing mast



Guyed tower

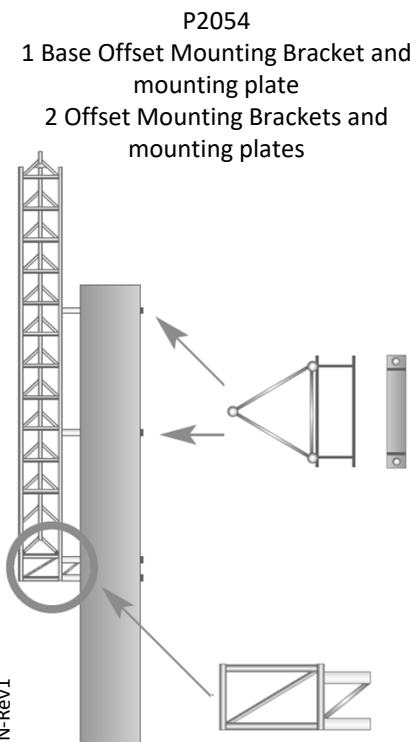


Light Self Standing Masts (LSM)

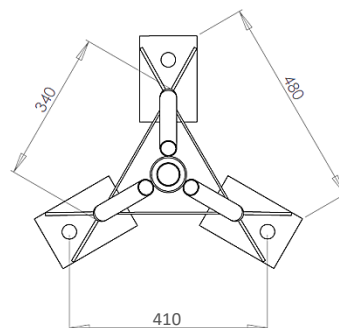
Made from light-weight dip-galvanized tubing, in lengths of 3m or 6m bolted together; the Lightning Self Standing Mast is fixed to the ground with a ground bracket sealed in concrete block, on a wall or gable with offset mounting brackets.

The Light Self Standing Mast allows the fixing of lightning conductors (tapped M20) up to 14 meters. No guy wires are necessary if the base is adequate.

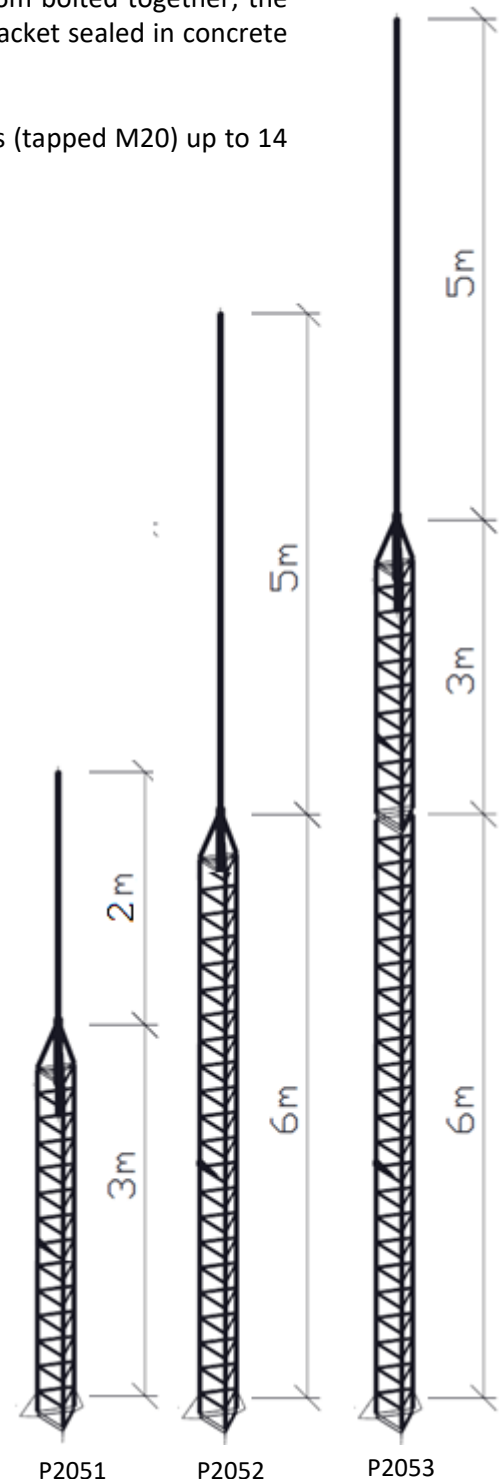
Designation	Ref.	Total Height	Weight
L.S.M 5m (Ground fixing)	P2051	5 m	36 kg
L.S.M 11m (Ground fixing)	P2052	11 m	71 kg
L.S.M 14m (Ground fixing)	P2053	14 m	86 kg
L.S.M 5m (Wall fixing)	P2056	5 m	36 kg
L.S.M 11m (Wall fixing)	P2057	11 m	71 kg
L.S.M 14m (Wall fixing)	P2058	14 m	86 kg
Set of 3 offset mounting brackets	P2054	-	25 kg
Ground bracket	P2055	-	6 kg



Dimensions (mm)



P2055



Concrete block dimensions (1.5 bar soil pressure)

P2051	0.8 x 0.8 x 0.8 m ³
P2052	0.9 x 0.9 x 0.9 m ³
P2053	1.0 x 1.0 x 1.0 m ³

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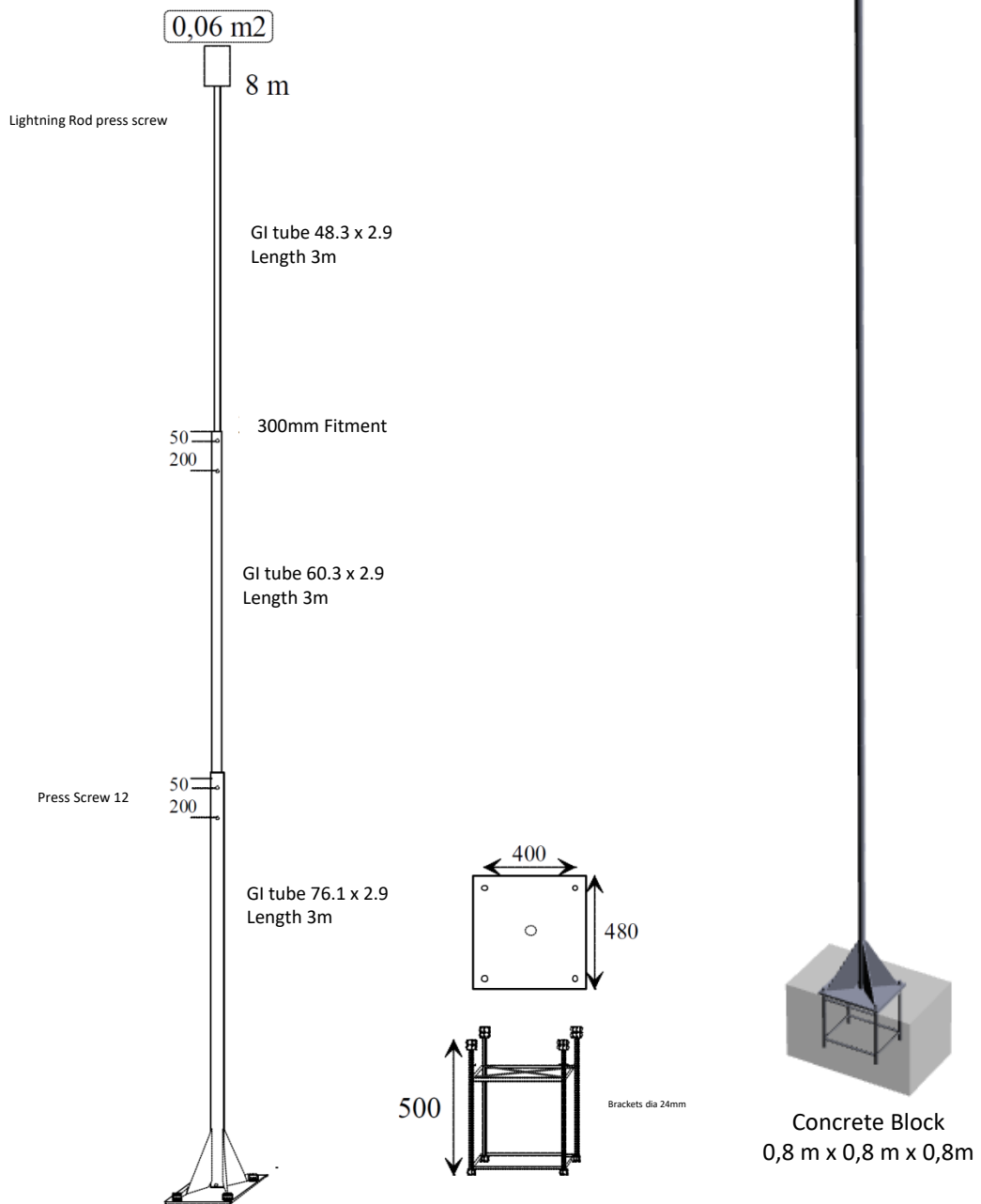


Lightning Mast 8M

3m sections made of special «high resistance» steel and galvanized inside and out.
 The telescopic sections are fixed together by two stainless steel press-screws. ; The mast is fixed to the ground with a ground bracket sealed in concrete block.
 The M20 Thread upper termination is designed for M20 lightning rod fixing. Guy wires are not required for wind velocity < 150 km/h

Characteristics	Ref.	Total Height	Weight
Lightning Mast 8M	C3469	8 m	75 kg

Dimensions (mm)



DOC146b.VEN-Rev0



Self Standing Towers

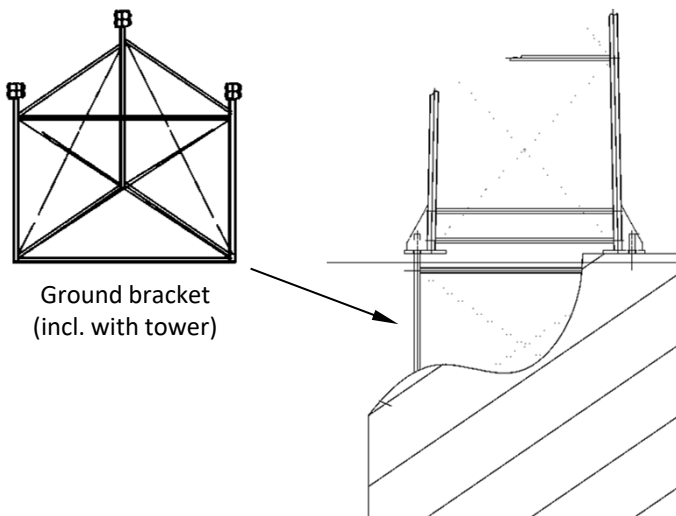
Indelec's self-standing towers are made from high-resistance steel and then dip-galvanized. They allow for lightning rods to be erected up to 36 m for the protection of open areas, for example.

They are supplied in kit form, in 3 or 6 m sections. A metal ground bracket is supplied and should be buried in a solid concrete block (see figures in table below).

Maximum top surface (Wind zone 2, 112 km/h): 0.25 m².

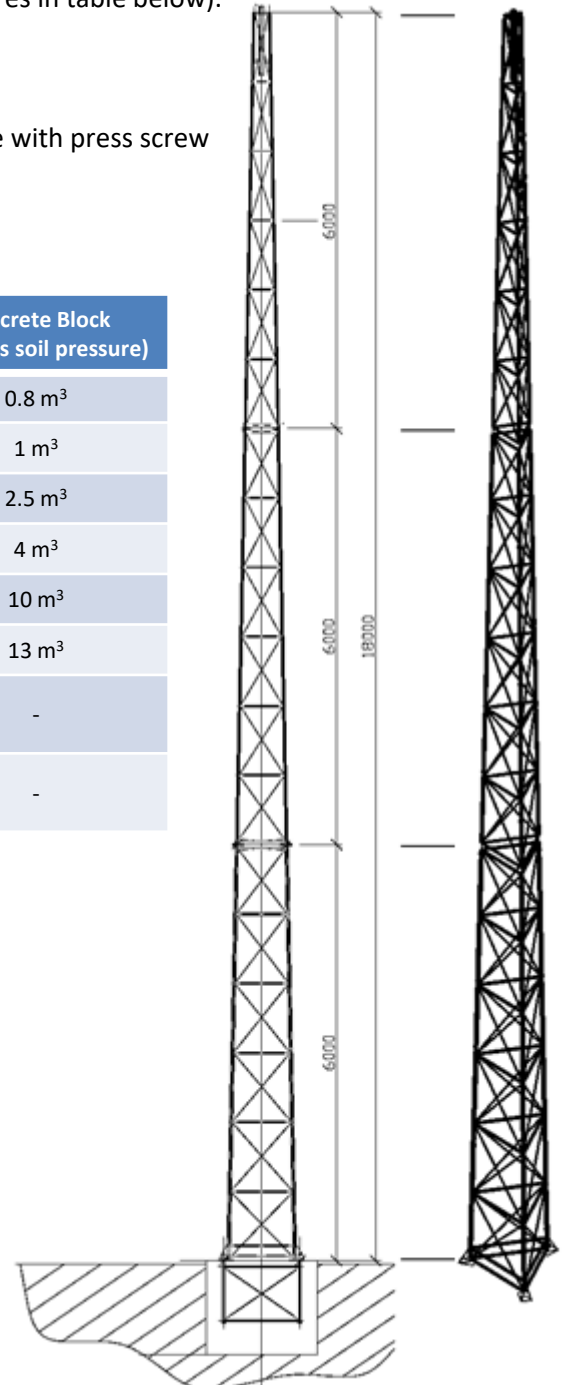
Upper termination is designed for lightning conductor fixing pole with press screw (max. dia. 50 mm).

Designation	Ref.	Height	Weight	Concrete Block (1.5 bars soil pressure)
Self Standing Tower	P2061	9 m	99 kg	0.8 m ³
Self Standing Tower	P2062	12 m	145 kg	1 m ³
Self Standing Tower	P2063	18 m	262 kg	2.5 m ³
Self Standing Tower	P2064	24 m	404 kg	4 m ³
Self Standing Tower	P2065	30 m	590 kg	10 m ³
Self Standing Tower	P2066	36 m	811 kg	13 m ³
Lightning conductor fixing pole dia. 50mm	P2067S	6 m	22 kg	-
M20 tapped Lightning conductor fixing pole	P2067P	6 m	22 kg	-



Ground bracket
(incl. with tower)

Concrete Block



Example : Tower P2063, made of three 6m sections

DOC174a.VEN-Rev0



Self Standing Towers (PYL Type)

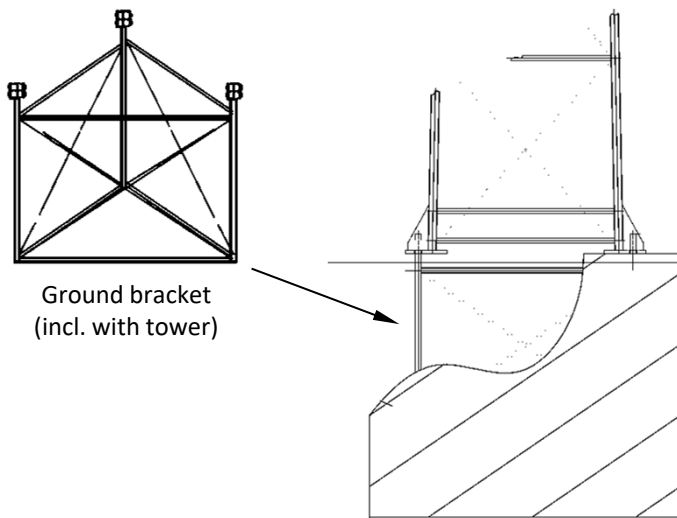
Indelec's self-standing towers are made from high-resistance steel and then dip-galvanized. They allow for lightning rods to be erected up to 36 m for the protection of open areas, for example.

They are supplied in kit form, in 3 or 6 m sections. A metal ground bracket is supplied and should be buried in a solid concrete block (see figures in table below).

Maximum top surface (Wind zone 2, 112 km/h): 1.00 m².

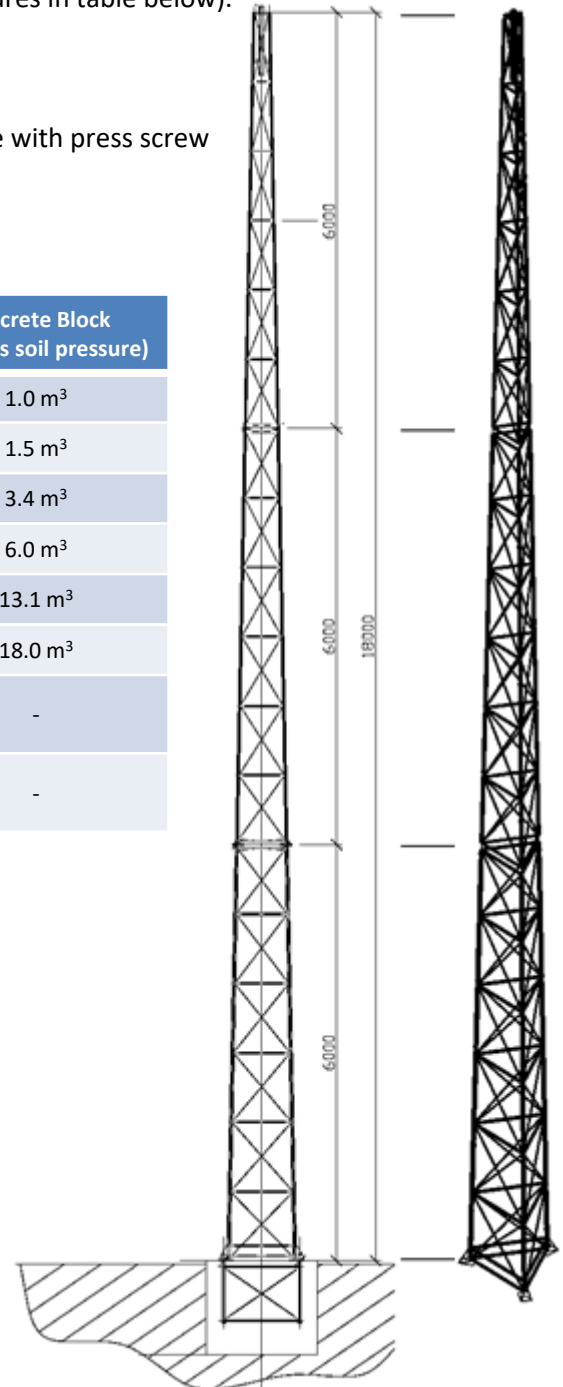
Upper termination is designed for lightning conductor fixing pole with press screw (max. dia. 50 mm).

Designation	Ref.	Height	Weight	Concrete Block (1.5 bars soil pressure)
Self Standing Tower	P2085	9 m	119 kg	1.0 m ³
Self Standing Tower	C1776	12 m	173 kg	1.5 m ³
Self Standing Tower	C1775	18 m	305 kg	3.4 m ³
Self Standing Tower	C1781	24 m	479 kg	6.0 m ³
Self Standing Tower	P2086	30 m	689 kg	13.1 m ³
Self Standing Tower	P2087	36 m	963 kg	18.0 m ³
Lightning conductor fixing pole dia. 50mm	P2067S	6 m	22 kg	-
M20 tapped Lightning conductor fixing pole	P2067P	6 m	22 kg	-



Ground bracket
(incl. with tower)

Concrete Block



Example : Tower PYL18, made of three 6m sections

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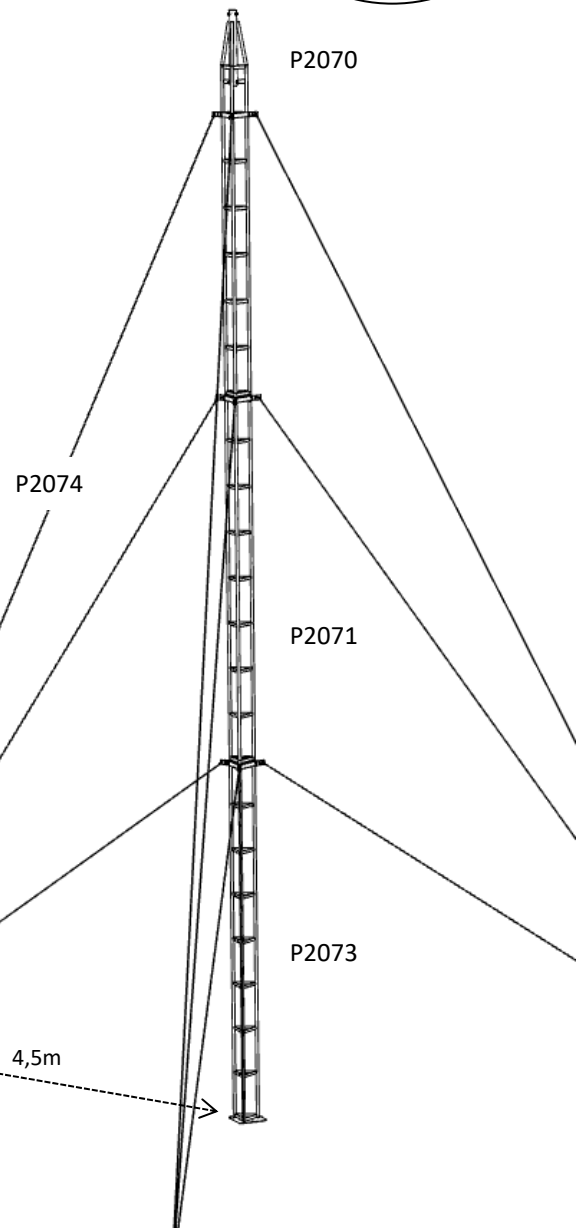
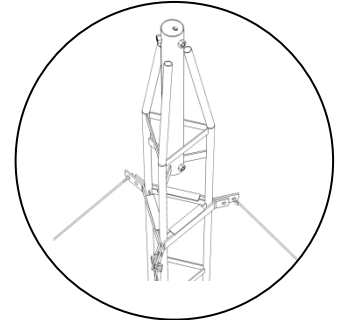
PH23 Guyed Towers

Made from dip-galvanized steel, and designed to receive guy wires, these towers come in 3 m sections, 23 cm wide. The sections are M12 bolted (included) together at the joints and the base can be supplied either with a spike or a flat base section for ground mounting.

Guy wires are needed every 3 or 6 m on three guy anchors fixed at ground level at a distance from the base equal to half the height of the tower.

A lightning rod fixing pole can be installed at the top of the tower (Ref P2001B).

Designation	Ref.	Height	Weight
Upper section	P2070	3 m	12 kg
Mid section	P2071	3 m	10 kg
Base section with spike	P2072	3 m	12 kg
Flat base section	P2073	3 m	12 kg
Stainless steel cable Ø2,4mm –100m coil	P2074	-	2.4 kg
Tensioning kit: 1 turnbuckle, 2 thimbles, 4 steel wire clamps	P2075	-	-
3 guy wires anchor	P2076	-	3 kg
6 guy wires anchor	P2077	-	6 kg
3 guy wires anchor – for roof terrace	P2088	-	3 kg
6 guy wires anchor – for roof terrace	P2089	-	6 kg
Triangle for guy wires fixing	P2082	-	-



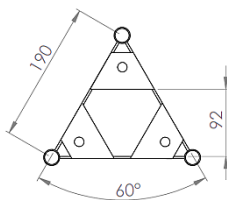
P2070



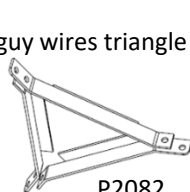
P2071



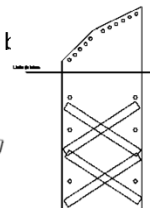
P2072



Accessory : guy wires triangle t



P2082



P2077



P2089

Mounting: 9m tower with guy wires

DOC175a.VEN-Rev1



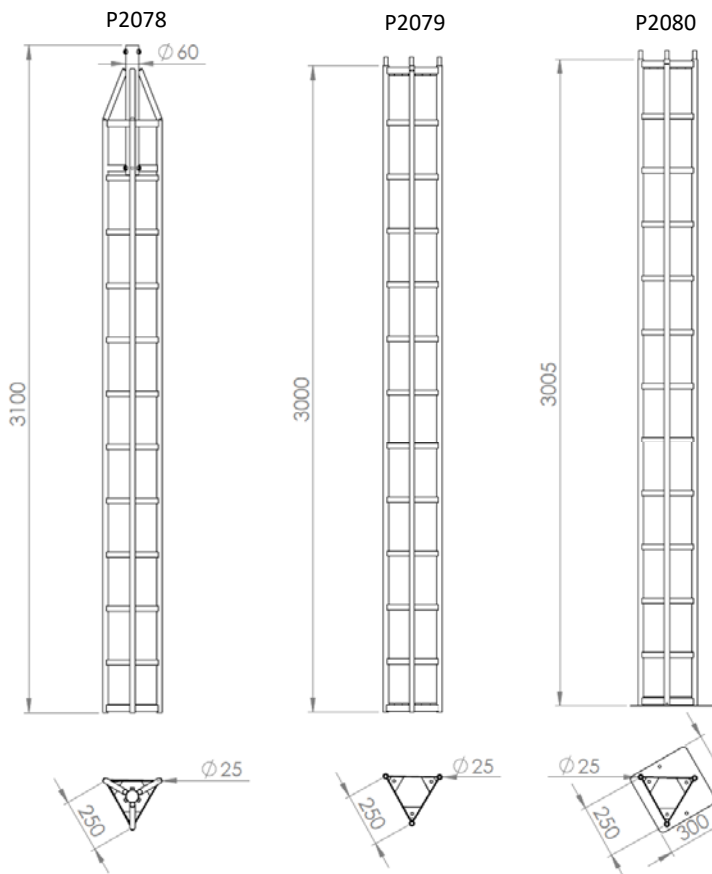
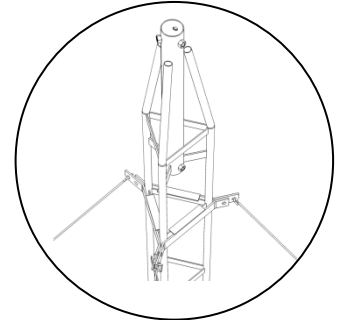
PH30 Guyed Towers

Made from dip-galvanized steel, and designed to receive guy wires, these towers come in 3 m sections, 23 cm wide. The sections are M12 bolted (included) together at the joints and the base can be supplied either with a spike or a flat base section for ground mounting.

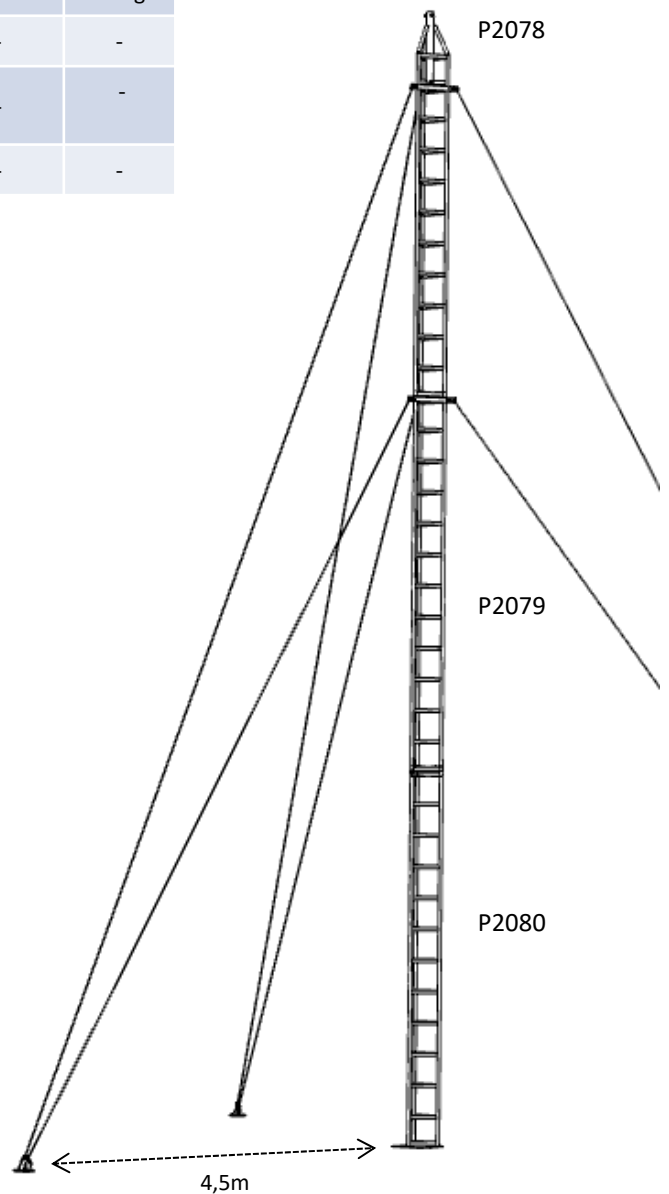
Guy wires are needed every 3 or 6 m on three guy anchors fixed at ground level at a distance from the base equal to half the height of the tower.

A lightning rod fixing pole can be installed at the top of the tower (Ref P2001B).

Designation	Ref.	Height	Weight
Upper section – PH30	P2078	3 m	17 kg
Mid section – PH30	P2079	3 m	15 kg
Base section with spike – PH30	P2080	3 m	17 kg
Stainless steel cable Ø4mm –100m coil	CAI4	-	-
Stainless Steel turnbuckle 4mm	SCI4	-	-
Stainless Steel Thimble 4mm	CCI4	-	-



Accessory: P2083 guy wire fixing triangle



Mounting: 9m tower with guy wires

DOC261a.VEN-Rev1

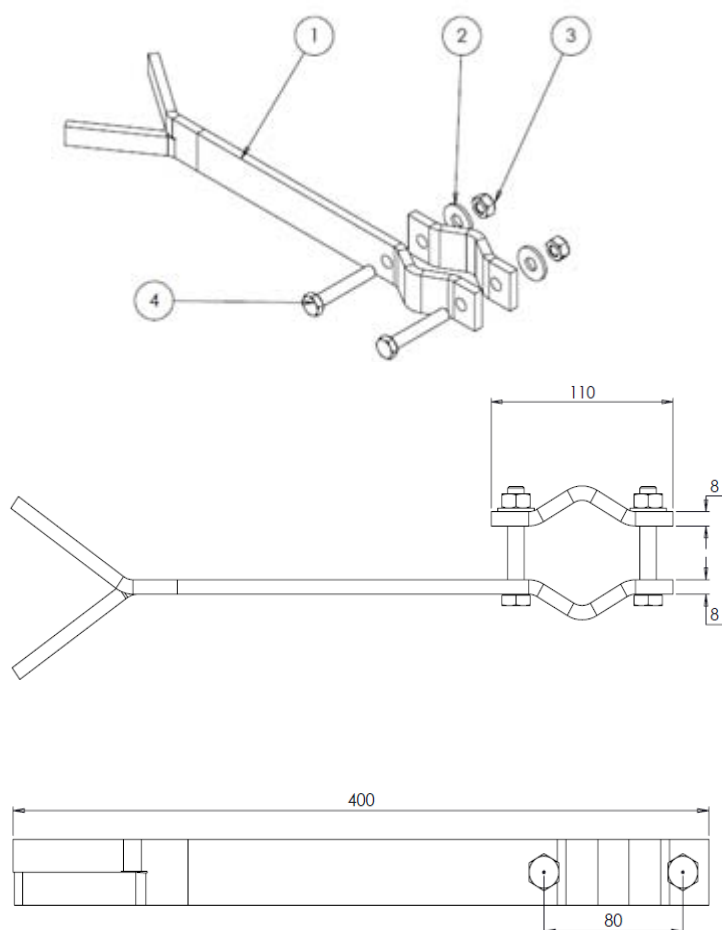


Side Mounting Wall Anchor

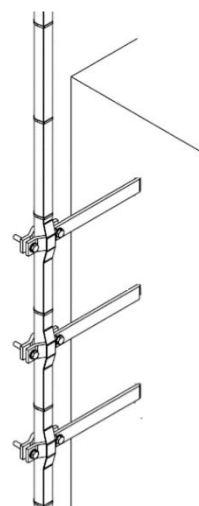
Characteristics	C1924
Material	Galvanized steel
Weight (kg)	1.200
Application	Installation in offset of the support member
Axial offset	230 mm
Accessories	Galvanized Steel Bolts included



Dimensions (mm)



Description	QTY
Mounting to seal with flange	1
Washer AC ZN – M10 moyenne	2
Screw AC ZN – h M10 –DIN934	2
Screw AC ZN H M10*60 – DIN933	2



Application

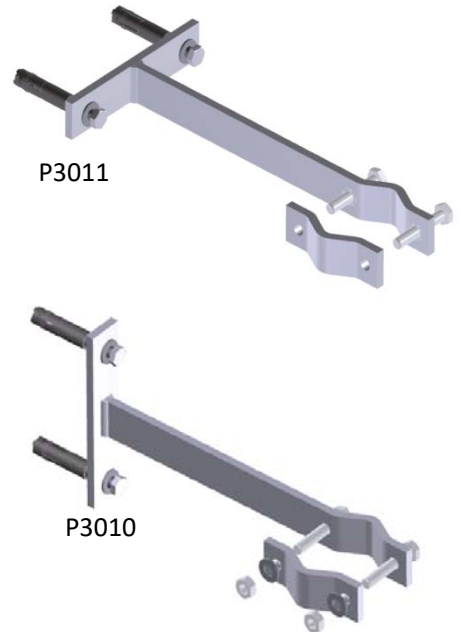
Mast ≤ 2m : 2 Anchors
 Mast > 2m : 3 Anchors

DOC140a.VEN-Rev0

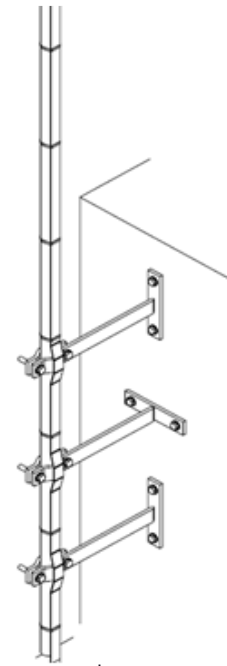
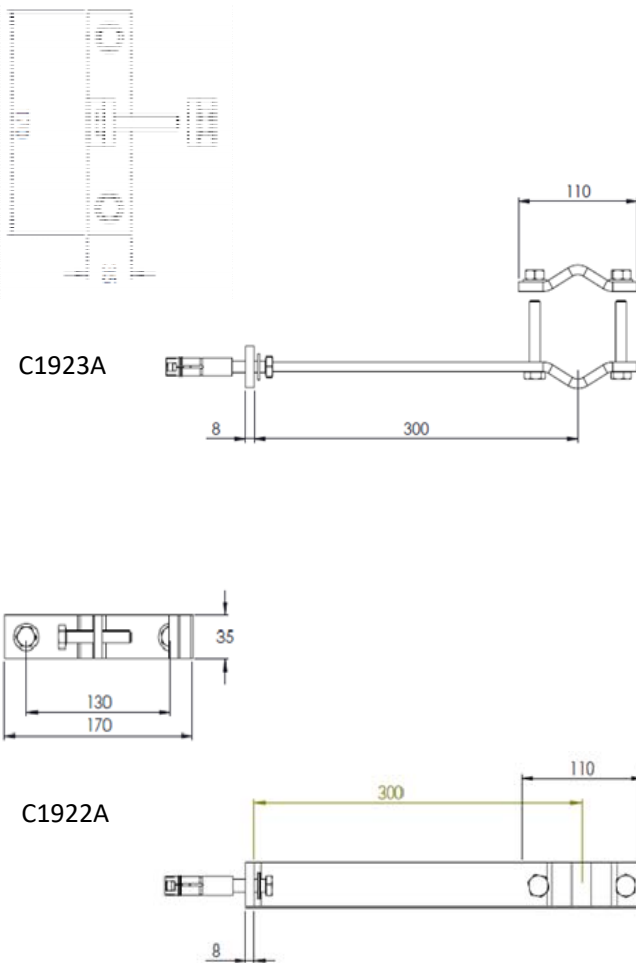


Side Mounting Bolted Brackets

Characteristics	P3011	P3010
Orientation	Horizontal	Vertical
Material	Galvanized steel	
Weight (kg)	1.650	1.700
drilling \varnothing (mm)	16	
Support max \varnothing (mm)	50	
Fixing	M10 bolts and iron plugs included	
Offset (mm)	300	
Application	Used to fix a pole on a vertical surface.	



Dimensions (mm)



Application

Mast \leq 2m : 2 x P3010
 Mast $>$ 2m : 1x P3011 + 2x P3010

DOC139a.VEN-Rev1

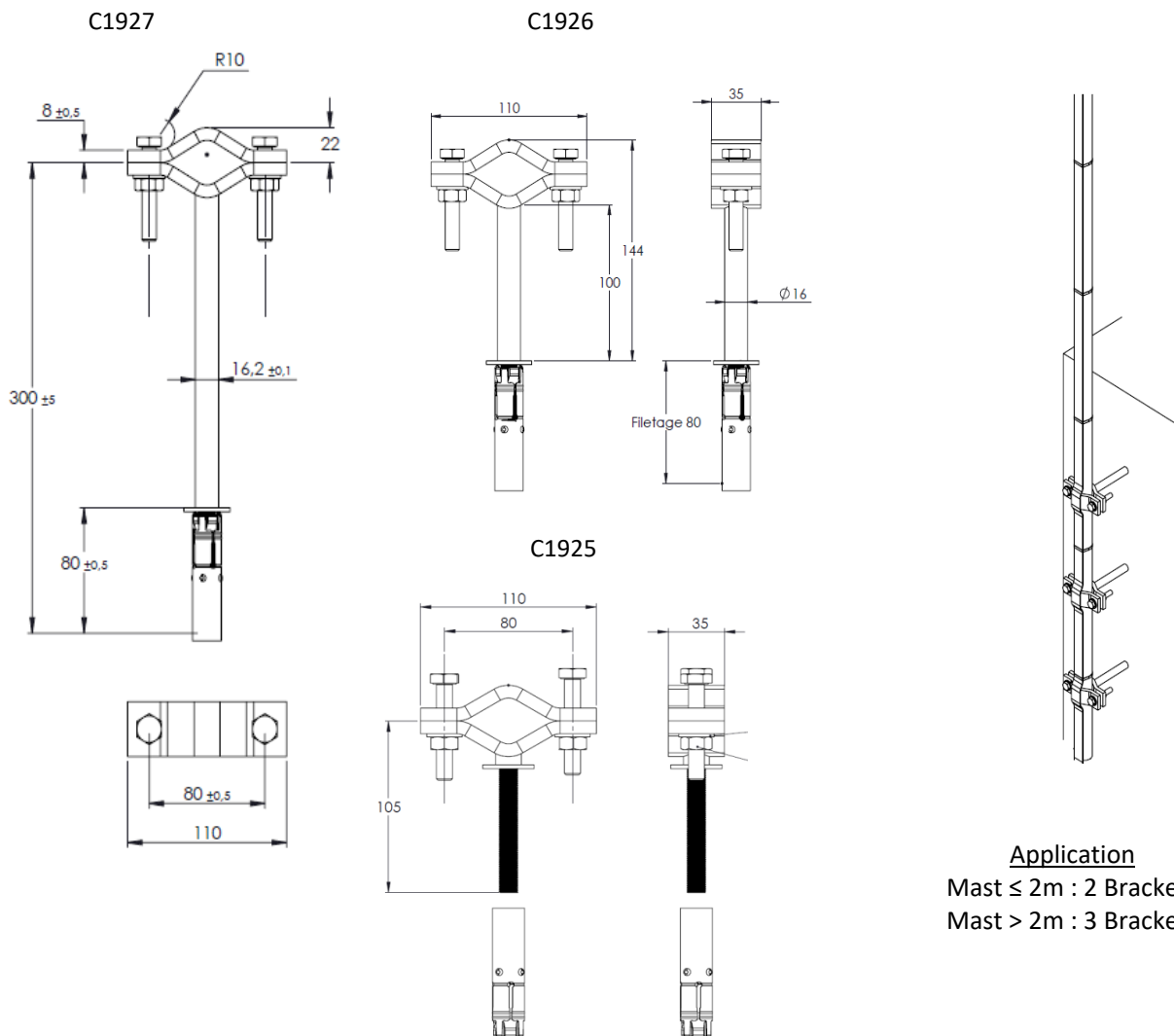


Wall Mounting Brackets

Réf.	C1925	C1926	C1927
Offset L (mm)	aucun	100 mm	200 mm
Material	Hot galvanized steel		
Weight (kg)	0,750	0,900	1,100
Drilling \varnothing (mm)	20		
Max mast \varnothing (mm)	50		
Application	Dip-galvanized steel cast iron plug supplied		
Fixing	Used to fix a pole on a vertical surface		



Dimensions (mm)



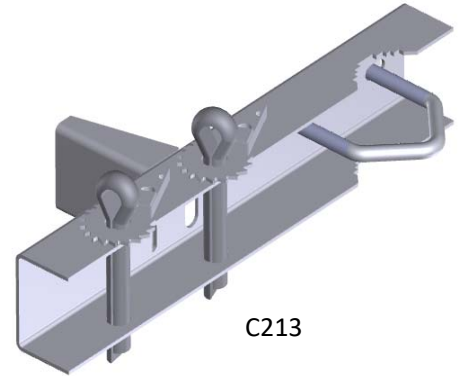
Application
Mast \leq 2m : 2 Brackets
Mast $>$ 2m : 3 Brackets

DOC141a.VEN-Rev1

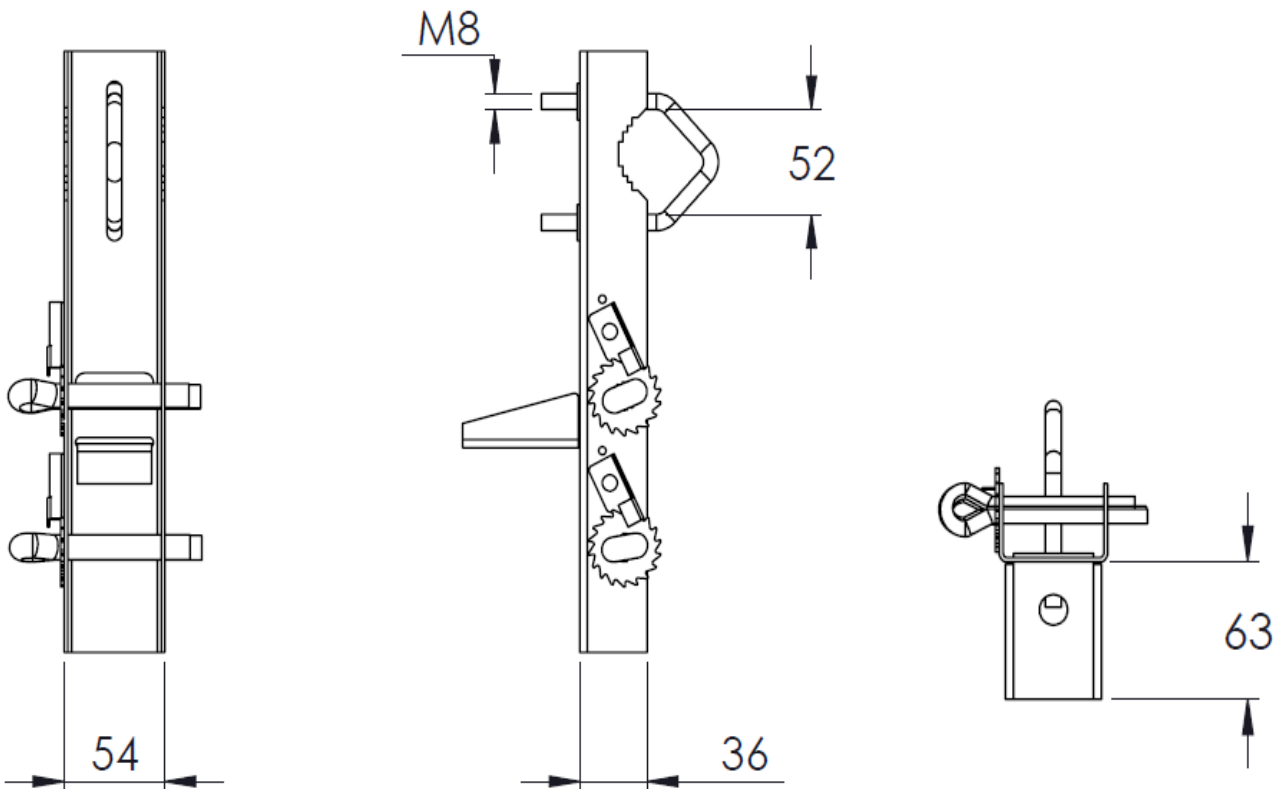


Hoop Mounting

Characteristics	C213	P3024
Designation	Hoop mounting	Galvanized steel strapping roll 20m
Material	Zinc coated steel	Galvanized steel
Weight (kg)	0.820	3.695
Application	For the strapping of a pole to a domestic chimney	



Dimensions (mm)



DOC135a.VEN-Rev0



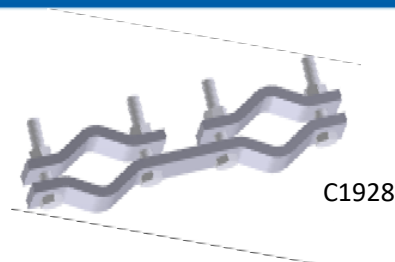
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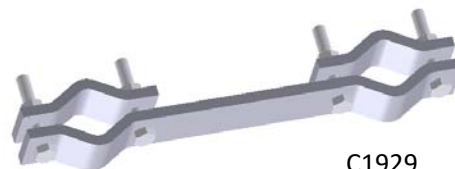
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Offset pipe bracket

Characteristic	C1928	C 1929
Material	Galvanized steel	
Weight (kg)	1.230	1.445
Offset(mm)	140	240
Length L1 (mm)	30	130
Length L2 (mm)	250	350
Ø max (mm)	50	50
Fixing	Galvanized steel bolt included	
Application	Fixing a mast on a vertical structure	

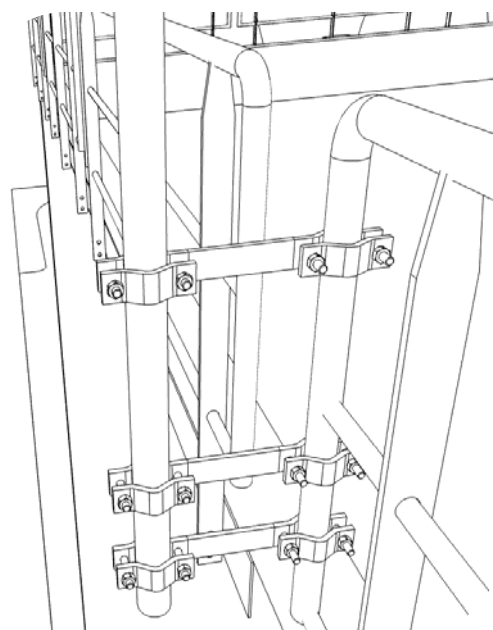
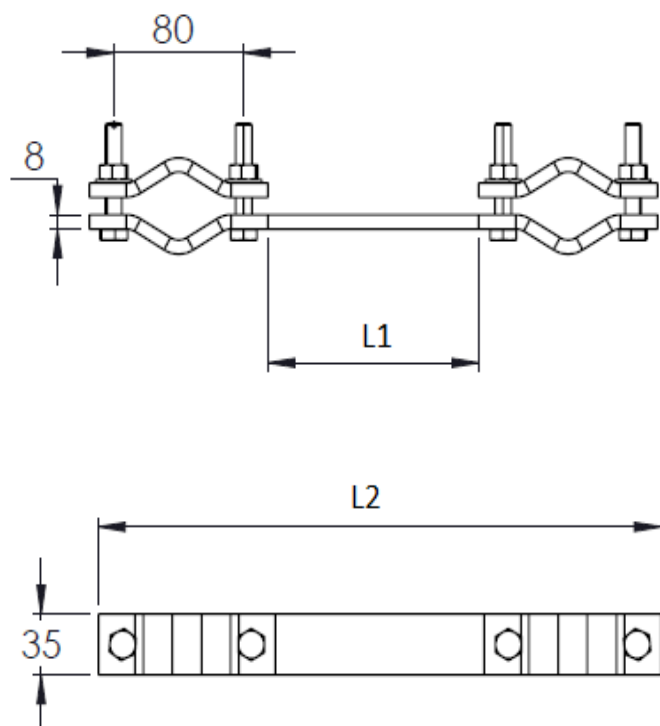


C1928



C1929

Dimensions (mm)

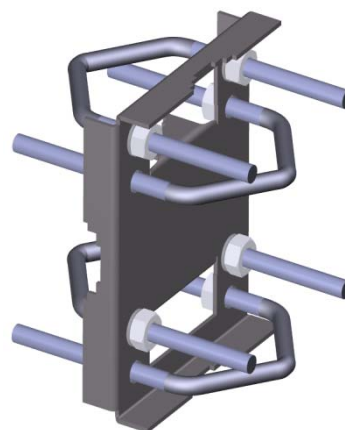


Application

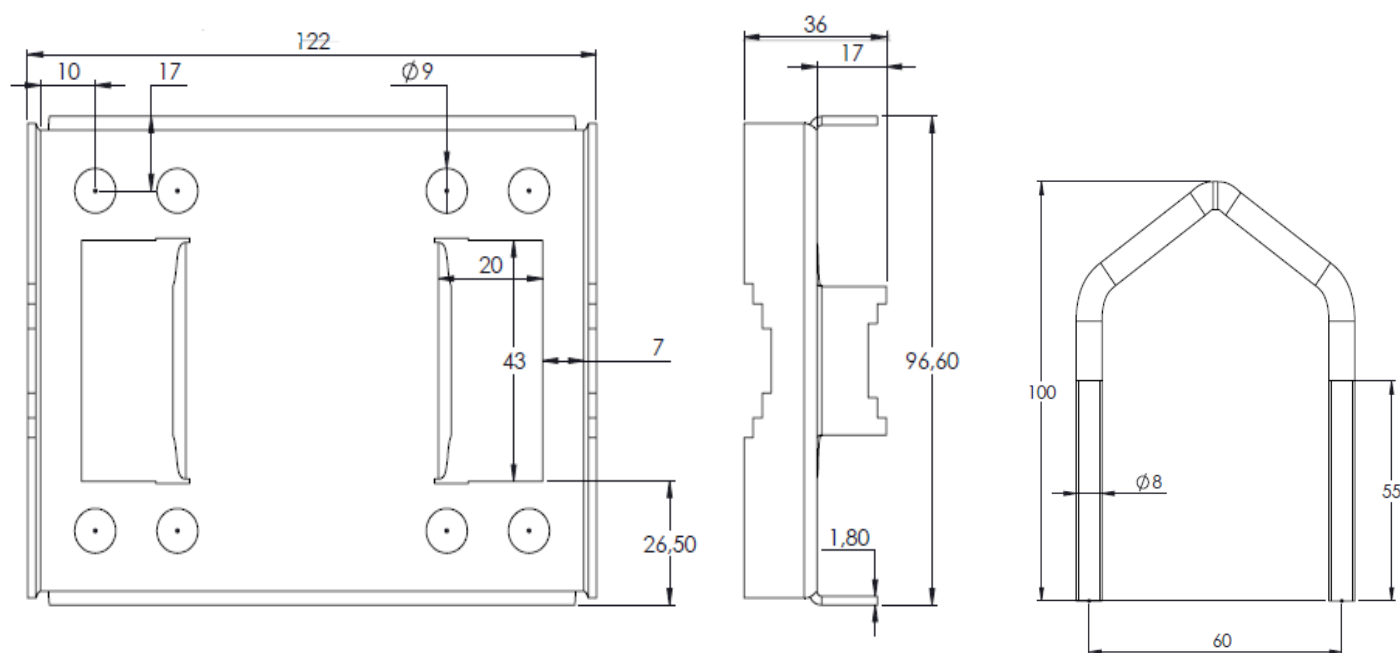
Mast \leq 2m : 2 Brackets
 Mast $>$ 2m : 3 Brackets

Multipurpose Fixing Bracket

Characteristics	P3034
Material	Stainless steel
Weight (kg)	0.570
∅ max (mm)	50
Application	Fixing a mast on a vertical or horizontal tubular structure



Dimensions (mm)



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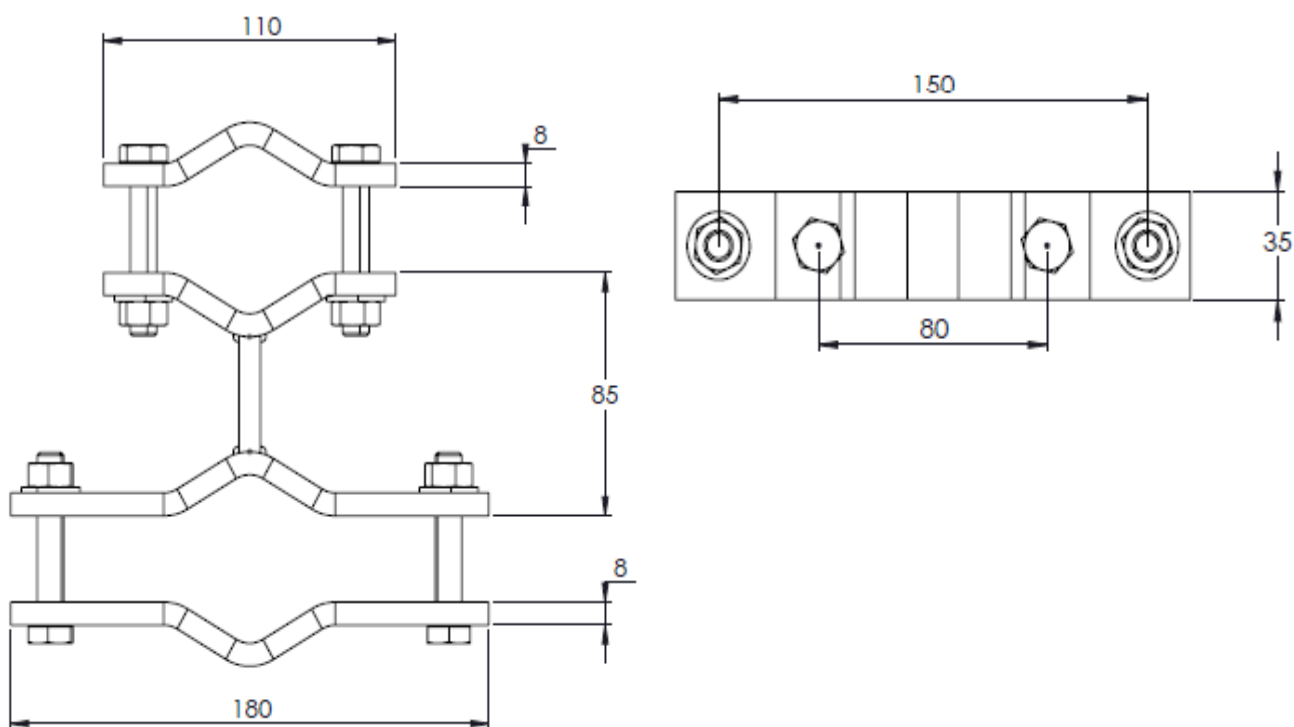
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Offset Pipe Collar « X » type

Characteristics	C1931
Material	Hot galvanized steel
Weight (kg)	1.590
Ø max (mm)	50
Application	Fixing elevation mast on vertical tube



Dimensions (mm)



DOC143a.VEN-Rev0



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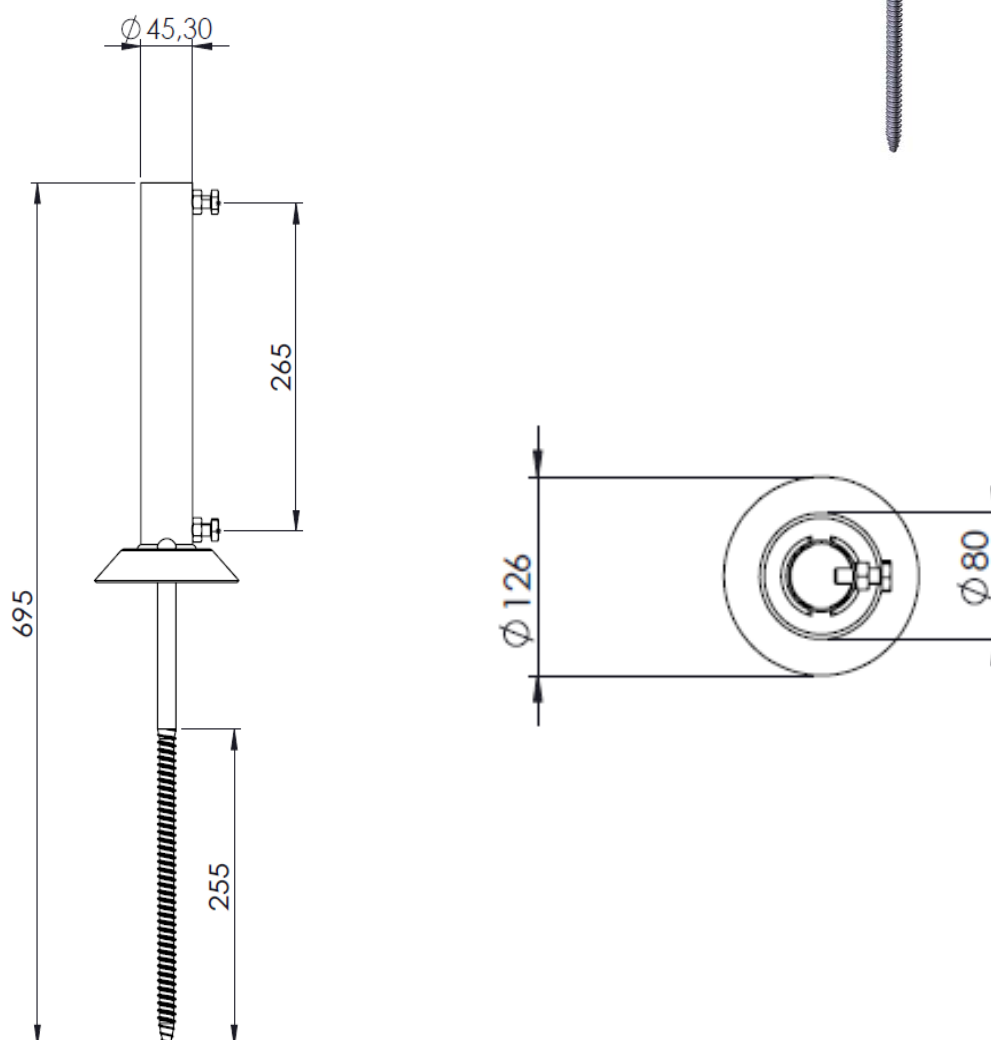
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Anchor Cement Mounting

Characteristics	P3042
Material	Hot Galvanized steel
Weight (kg)	1.360
Ø max support	35mm
Application	For lightning rod or elevation pole (2m height max) fixing on a wooden or concrete frame.



Dimensions (mm)



DOC177a.VEN-Rev0



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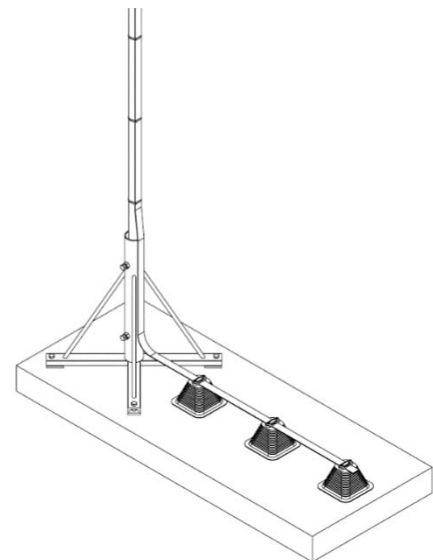
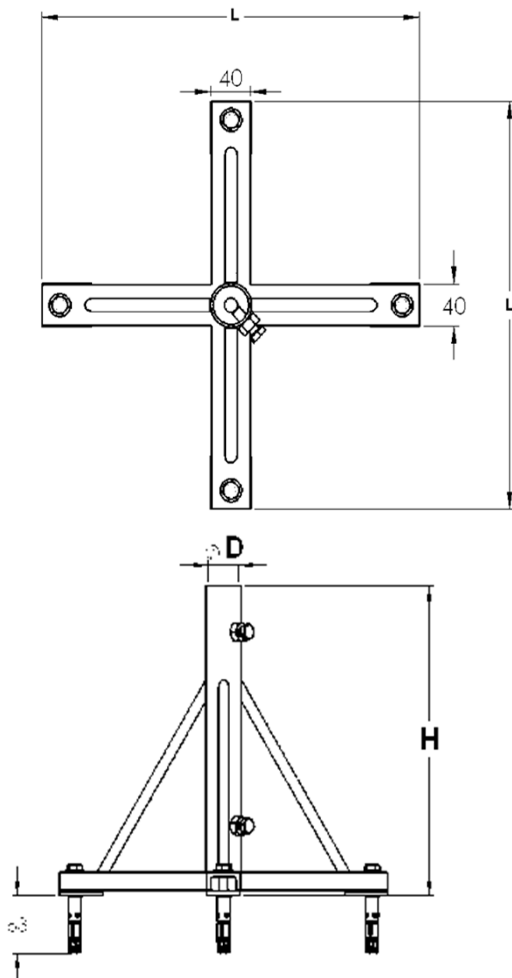
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Mounting Stand for Mast

Characteristics	P3052	P3053
Material	Galvanized steel	
Weight (kg)	4.855	7.515
Height H (mm)	341	503
Center distance (mm)	360	515
Ø max of mast D (mm)	35	50
Length L (mm)	390	560
Fixation	bolt zinc coated steel dowel pin provided Drilling Ø 16mm	
Application	2m max pole fixing on a flat roof without the need of guy wire	5.5m max pole fixing on a flat roof without the need of guy wire



Dimensions (mm)



Application

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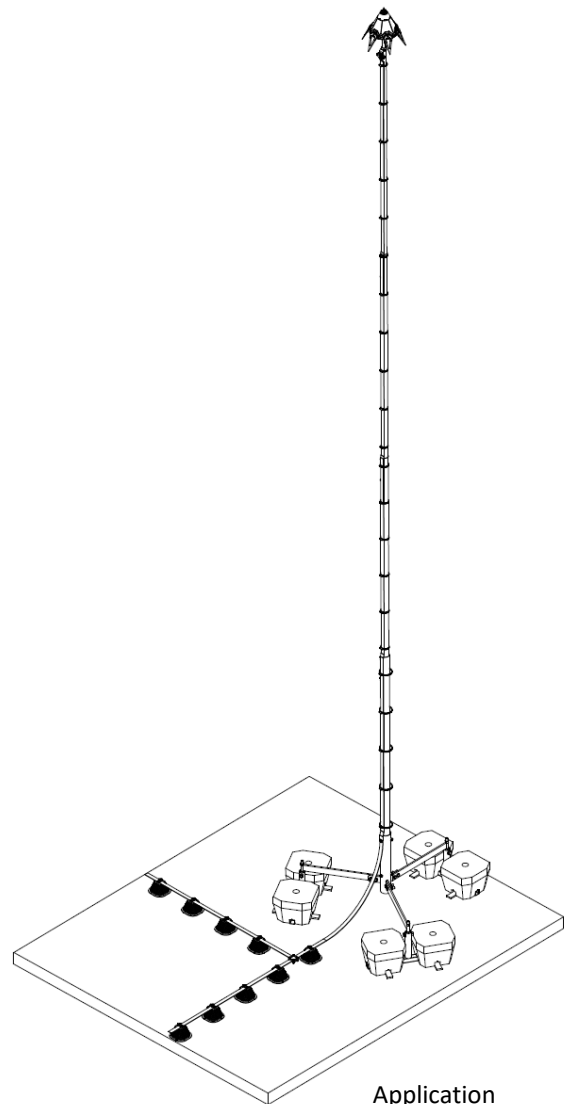
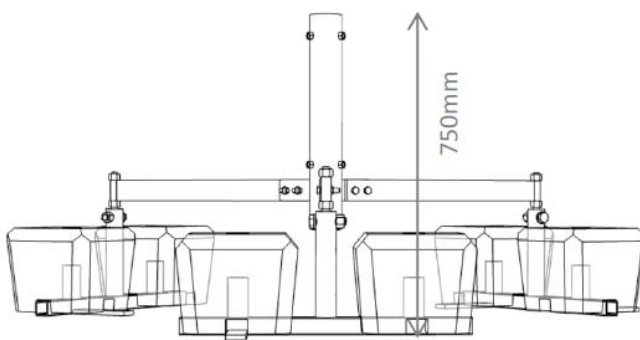
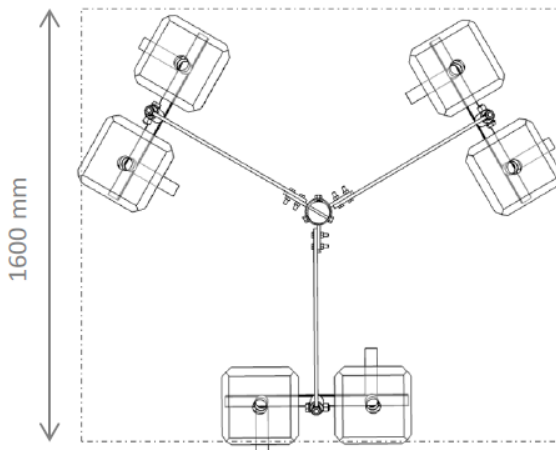
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Mast Self-Standing Tripod Base

Characteristics	C3678
Material	Galvanized steel
Weight (kg)	25.000 (without concrete bloc)
Ø max of mast(mm)	65
Fixing	By 6 concrete blocks (25 kg not provided)
Tilt	Up to 10°
Application	Fixing a lighting mast on a flat roof without the need of guying wire



Dimensions (mm)



Application

DOC148a.VEN-Rev1



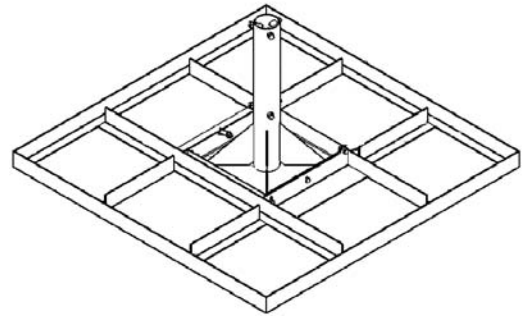
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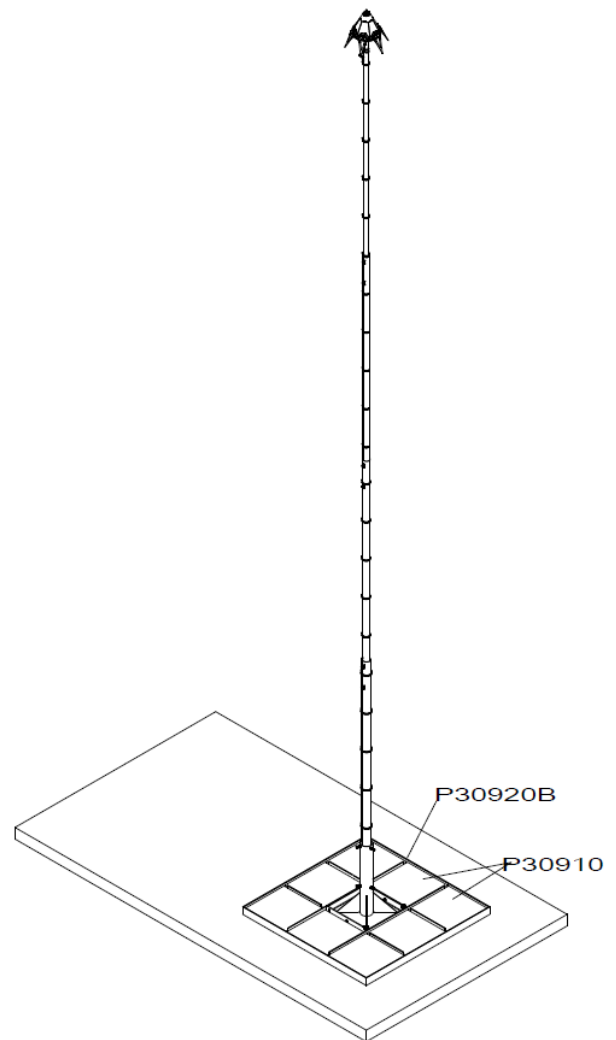
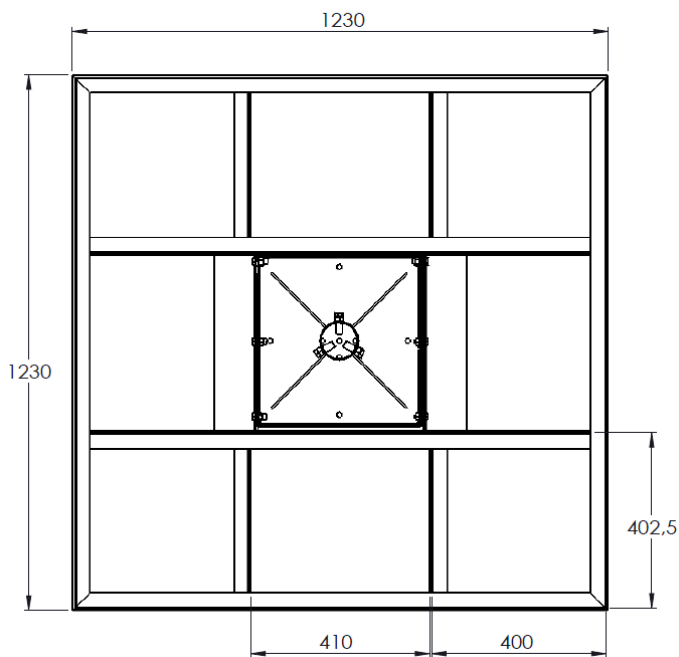
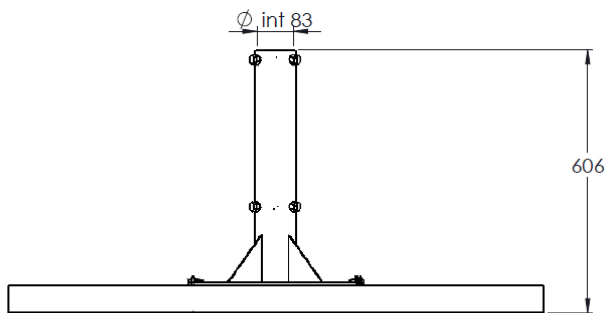
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Mast Self-Standing Tripod Base Metallic Frame

Characteristics	P30920B
Material	Hot dip galvanized steel
Weight (kg)	50,5 kg (excluding concrete plate ref.P30910)
Pole max diameter	83 mm
Fixing	Minimum 8 concrete plates (15,5kg per plate) (not included ref.P30910)
Tilt	Up to 10°
Application	Fixing a 5.50m high max lighting mast on a roof



Dimensions (mm)



Application

DOC230a.VEN-Rev1



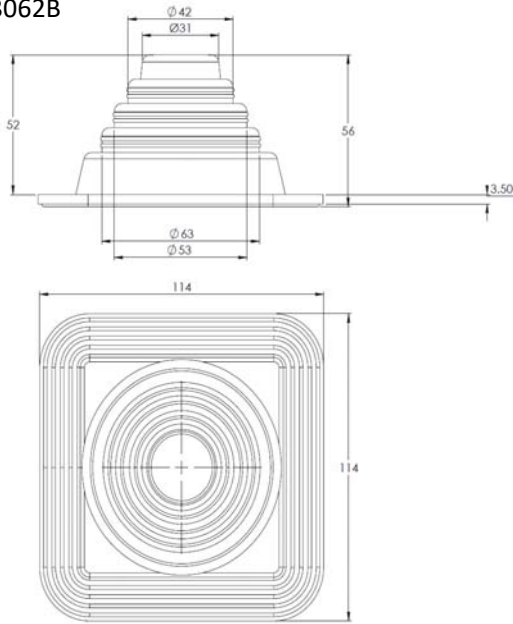
Waterproofing Collar

Characteristics.	P3062B	P3063	P3065
Material	Rubber		Zinc
Weight (kg)	0.070	0.200	0.145
Application	Waterproofing on mast		

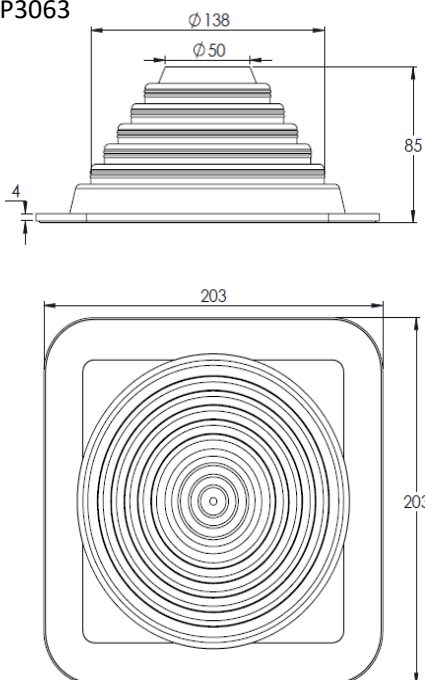


Dimensions (mm)

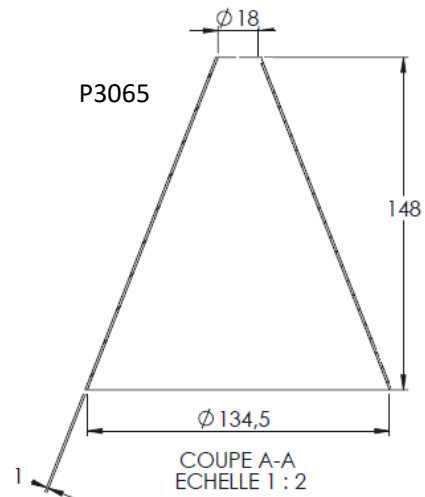
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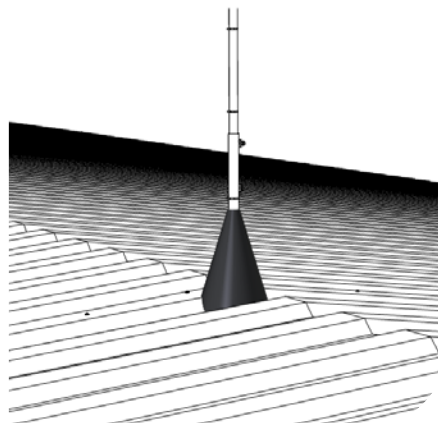
P3063



P3065



Application



Adapter Sleeve

Characteristics	P3066B	P30637B	P3068A
Material	brass		
Weight (kg)	0.735	1.135	2.295
Height (mm)	100	250	550
Ø max(mm)	200	200	250
Application	Fixing a lightning conductor on a Round or square shaft		



P3066B

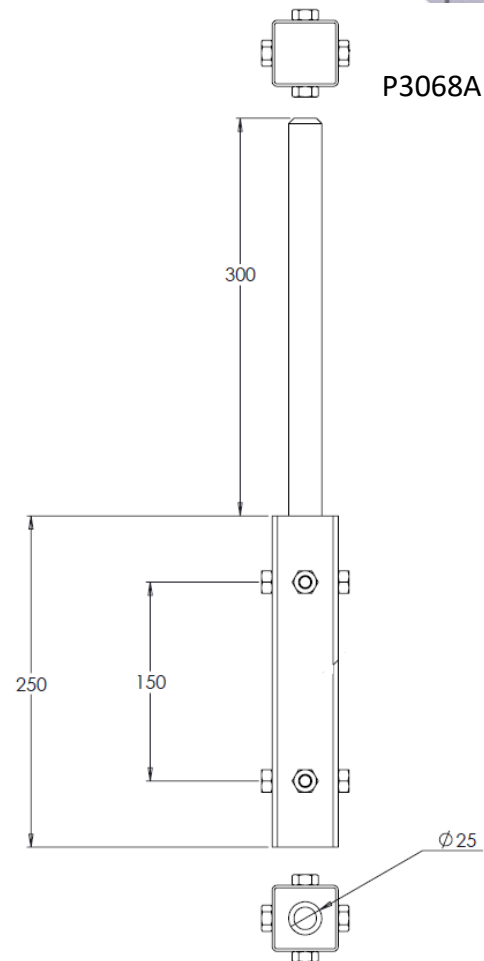
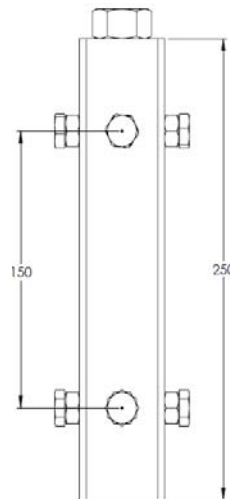
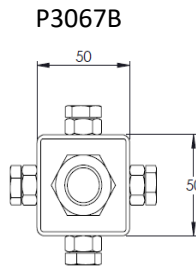
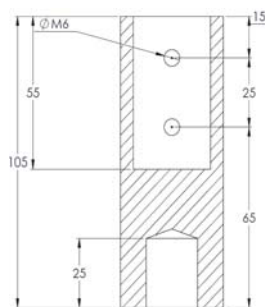
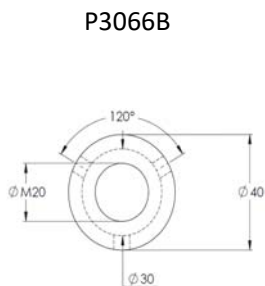


P3067B



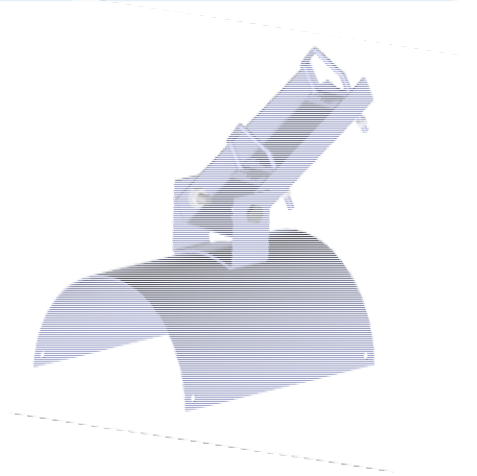
P3068A

Dimensions (mm)

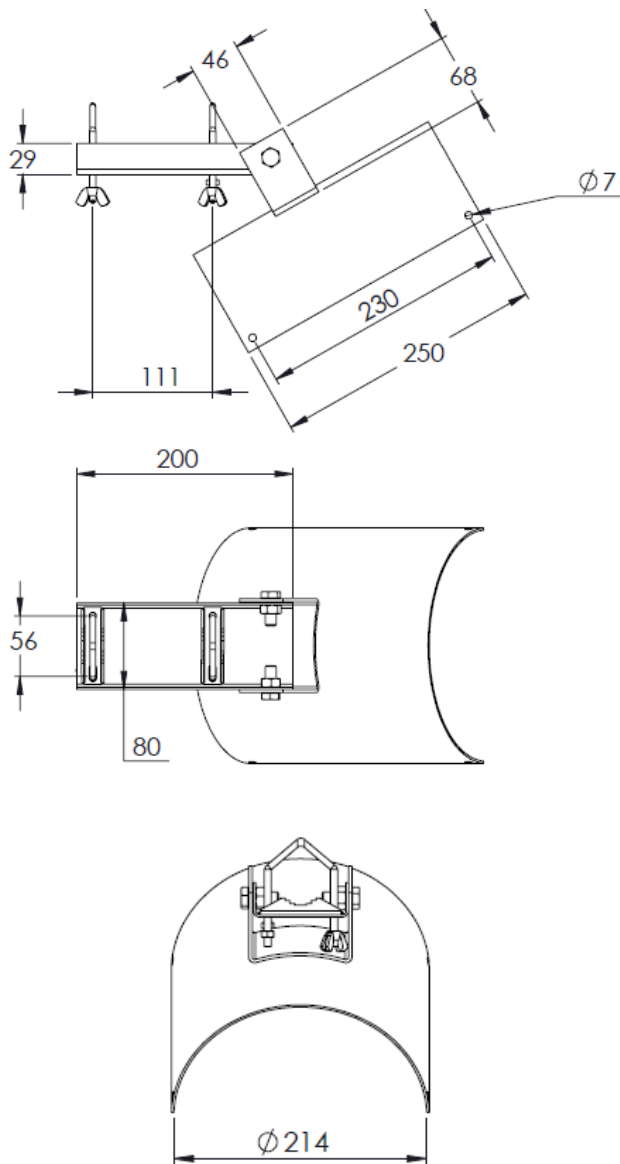


Pivoting Base

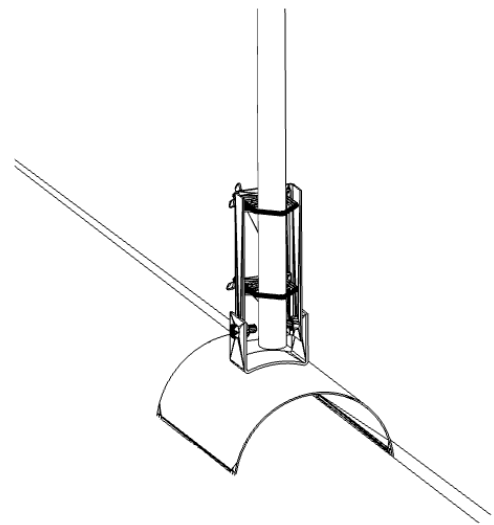
Characteristics	P3081
Material	Dichromate steel
Weight (kg)	2.055
Ø max (mm)	50
Application	Withstanding elevation mast on roof ridge (in complement of guy wiring)



Dimensions (mm)



Application



DOC181a.VEN-Rev0



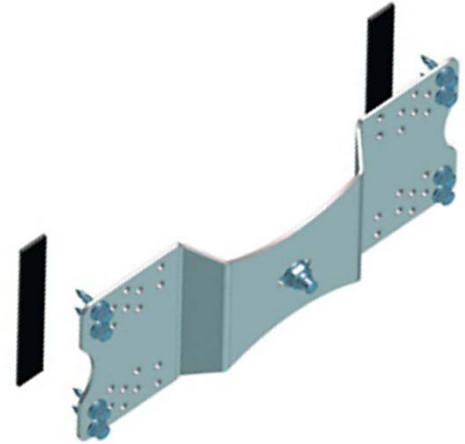
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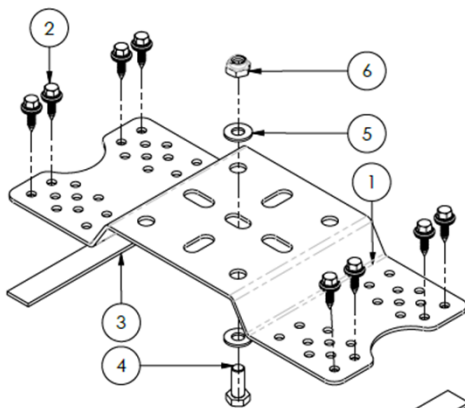
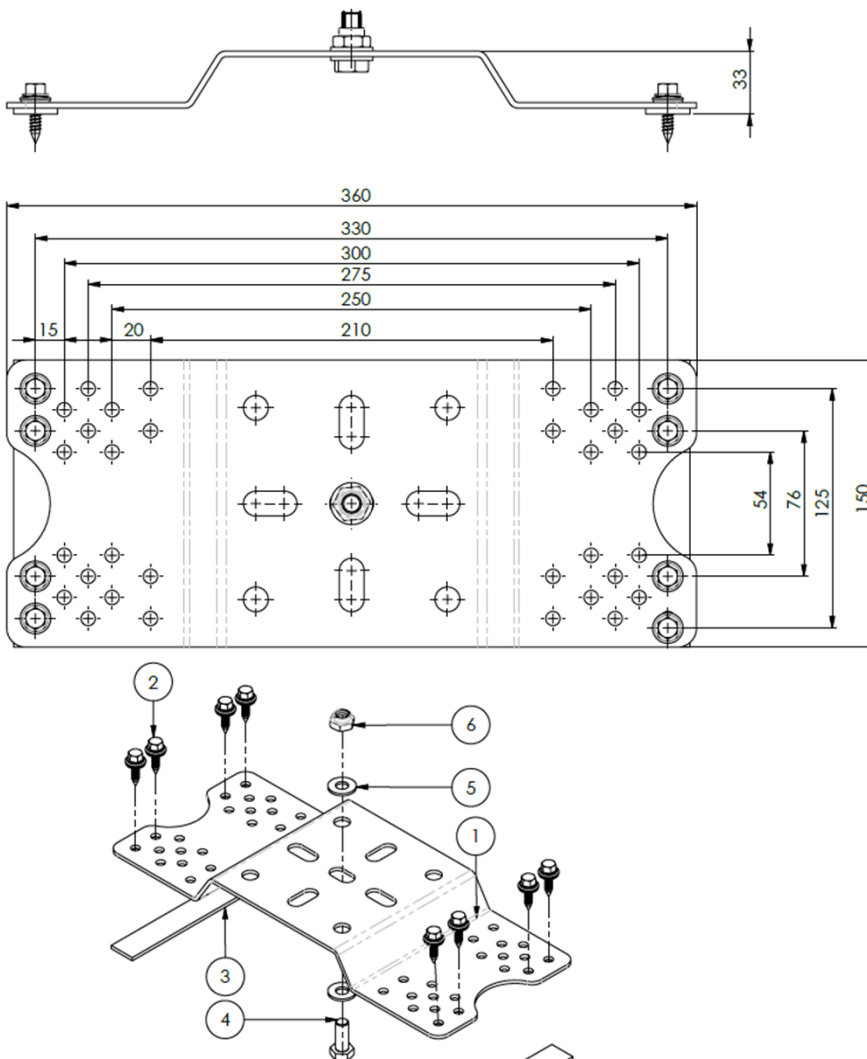
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Support Plate for Cladding

Réf.	P3045
Material	AISI 304
Weight (kg)	1,410
Application	Used to fix a pole on a vertical metal cladding sheet.
Accessories	refer to table below



Dimensions (mm)



Item #	Description	QT
1	PLATE FOR RIBBED CLADDING SHEET	1
2	SELF DRILLING SCREW TH 6x25 StSt A2 WATERPROOF WASHER ø16mm	8
3	WATERPROOF STRIP	2
4	SCREW HM 10x25 StSt	1
5	WASHER M10	2
6	LOCKNUT M10 StSt A2	1



Application

Lightning rod elevation mast fixing.
P3045 plates in association with C1925 mounting brackets (not included)

DOC287a.VEN-Rev0



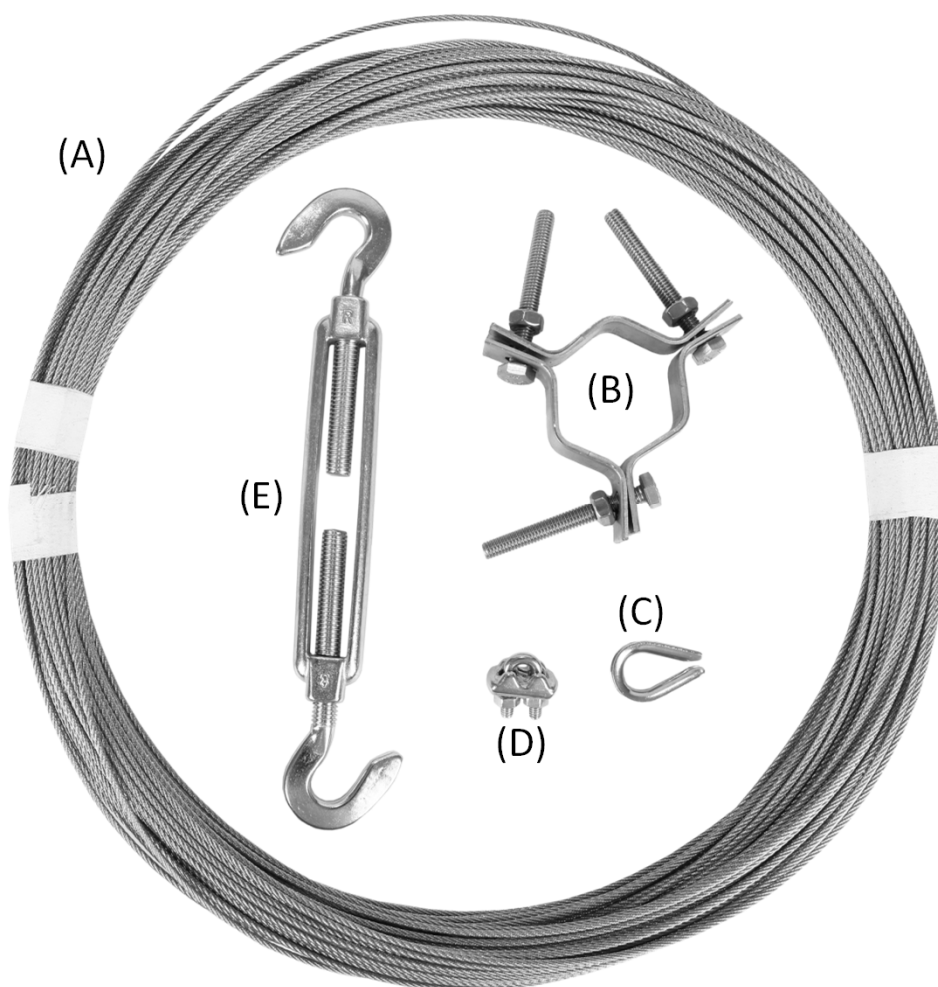
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Steel Guy Wire Kit

Characteristics	P3082	P3083
Material	Galvanized steel	Stainless steel
Weight (kg)	2.265	2.315
Application	2 x 3 wire guys for elevation mast.	
Contents:	50m galvanized steel cable Ø2mm (A) 2 mast collar (B) 12 heart thimbles (C) Cable clips(D) 6 tensioners (E)	



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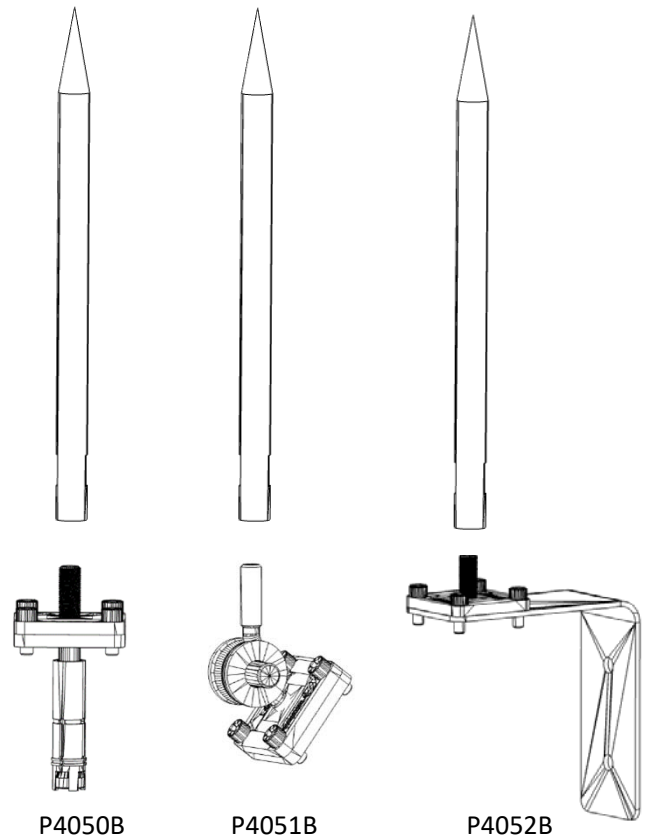
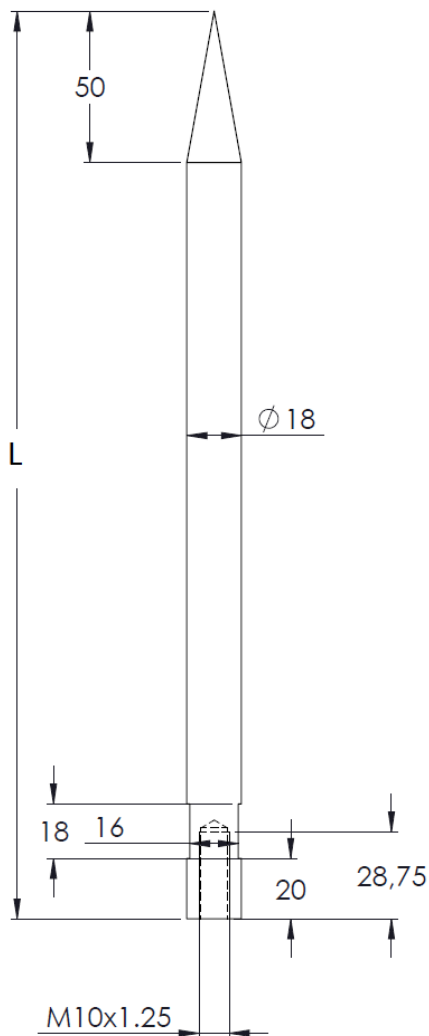
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Tapped Air Rod

Characteristics	P4001	P4002	P4003	P4004
Material	Chromium plated copper		Stainless steel	
Weight (kg)	0.585	1.035	0.520	0.920
Diameter (mm)	18	18	18	18
Length (mm)	300	500	300	500
Fixing	Air rod base (P4050B, P4060), Angle saddle(P4051B, P4061B) or pivot saddle(P4052B)			
Standard	EN 62561-2			



Dimensions (mm)



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Threaded Air Rod

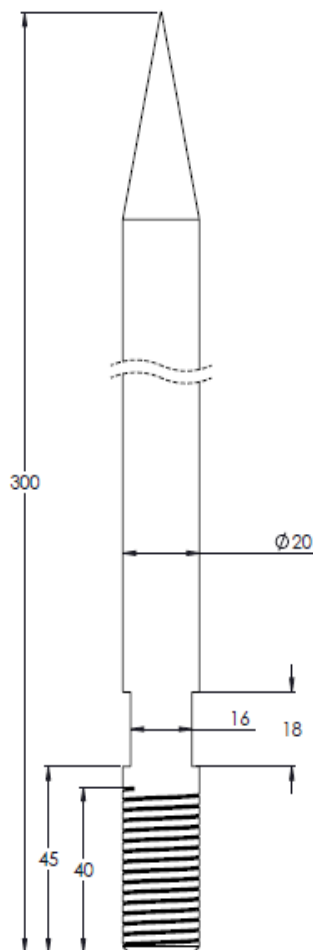
Characteristics	P4005C	P4006C
Material	Chromium plated copper	Stainless steel
Weight (kg)	0.720	0.640
Ø (mm)	20	
Height (mm)	300	300
Fixation	M20 screwing on a mast (Ref : P2001)	
Standard	EN 62561-2	



P4005C

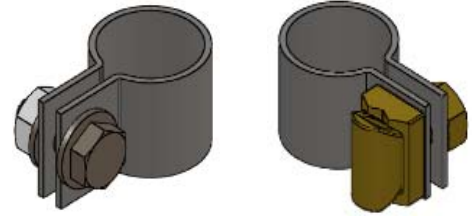
P4006C

Dimensions (mm)



Rod to Conductor Clamp

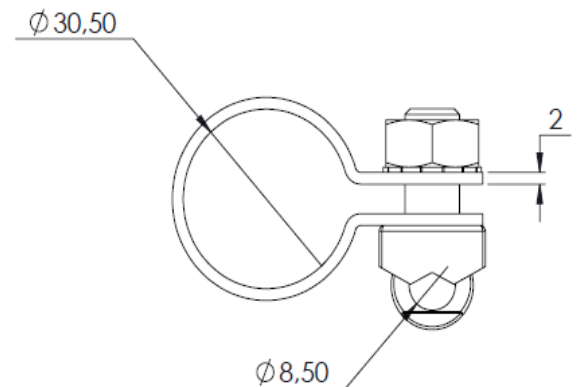
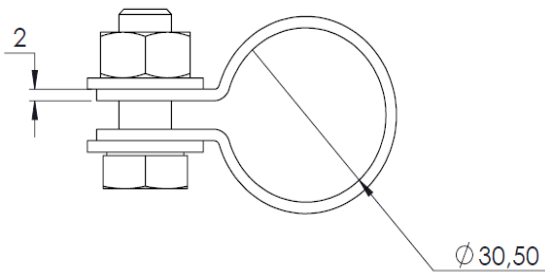
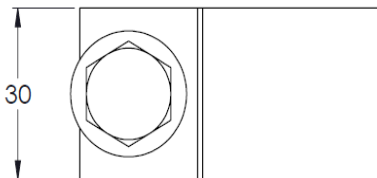
Characteristics	P3095	P3096
Material	Stainless Steel	
Diameter (mm)	30.5	
Application	Flat conductor connection	Round conductor connection



P3095

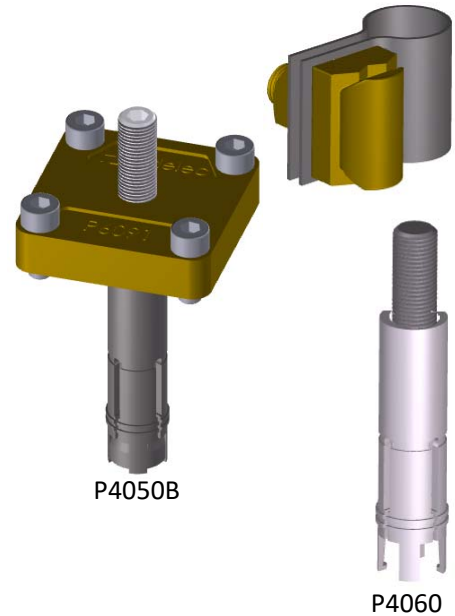
P3096

Dimensions (mm)

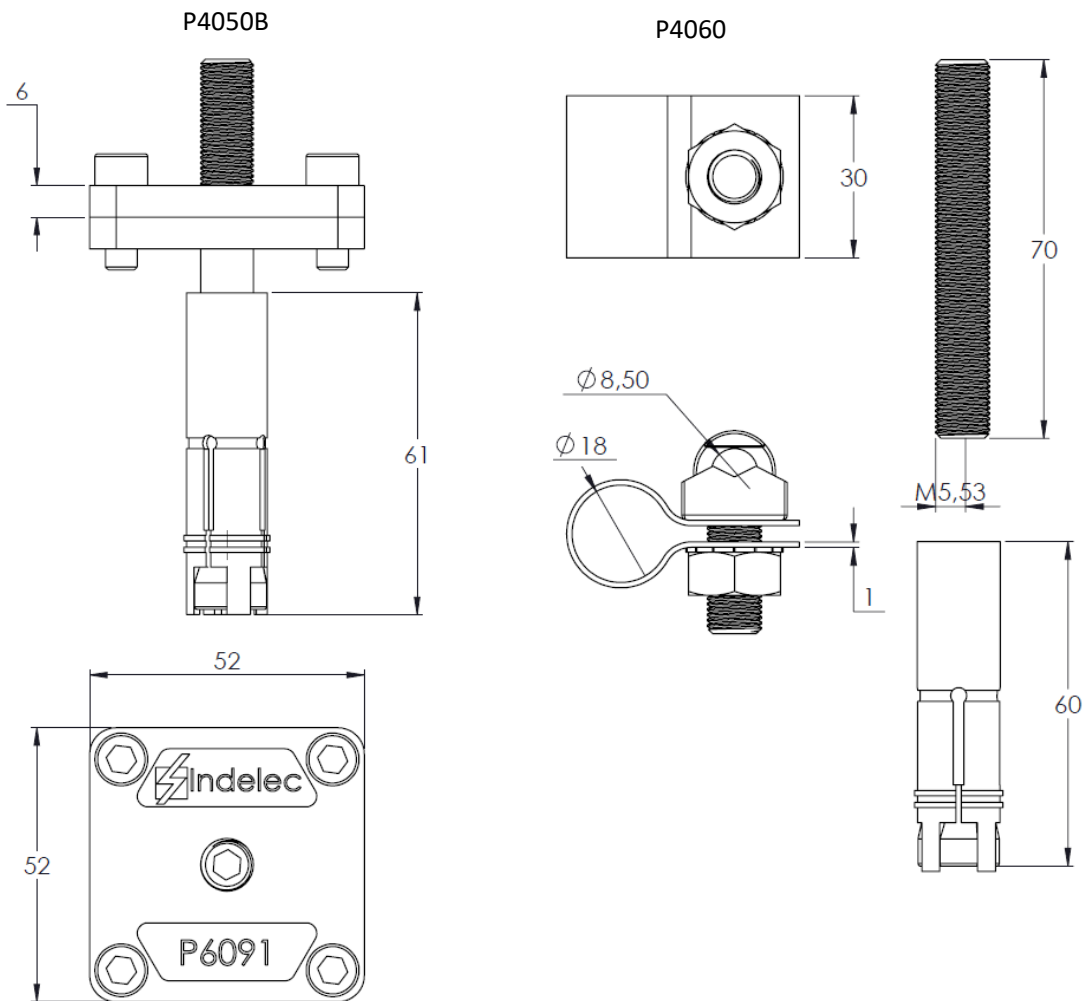


Air Rod Base

Characteristics	P4050B	P4060
Material	Brass	Copper
Weight (kg)	0.390	0.185
Connection	Flat conductor by clamping between plates	Round conductor by a collar at the base of the air rod
Fixation	Screw and anchor bolts	
Application	Fixation of threaded air rod and connection for tape or round conductor	
Standards	EN 62561-1, EN 62561-4	



Dimensions (mm)



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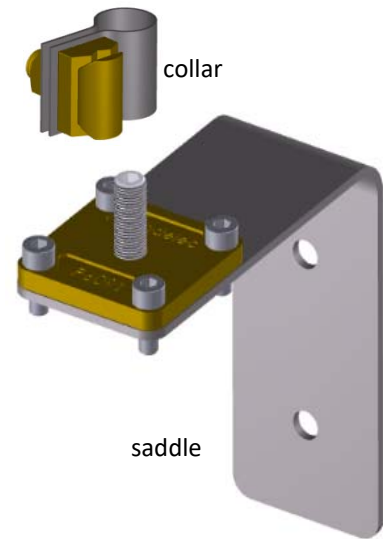
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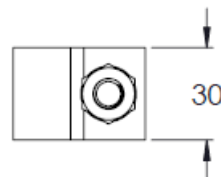
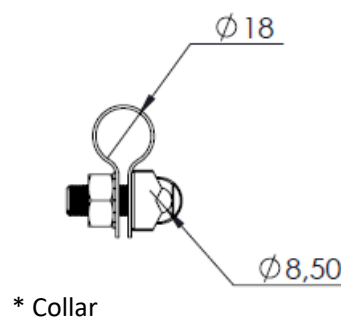
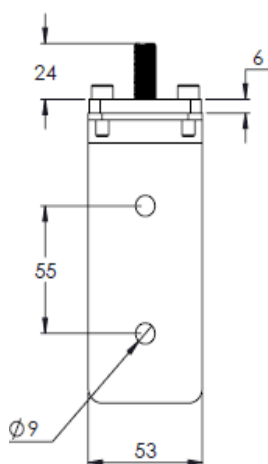
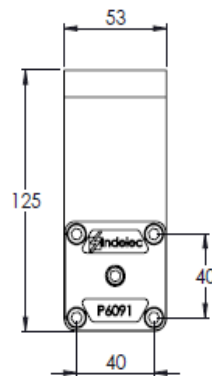
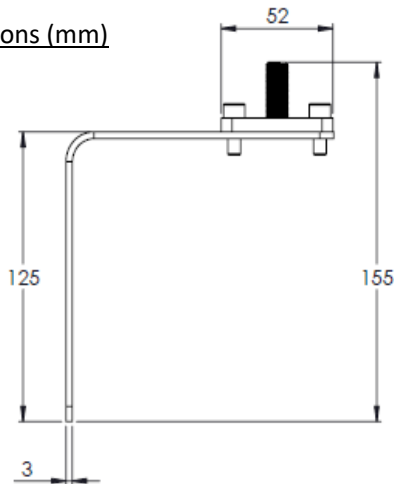
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Air Rod Angle Saddle

Characteristics	P4051B	P4061B
Material	Stainless steel, brass	
Weight (kg)	0.445	0.550
Conductor	Flat, max 30x2	Round \varnothing max 10 mm
Connection	clamping between the plates	collar to be placed at the base of the tip
Composition	Saddle	Saddle + collar*
Application	Fixing tapped air road In offset on a vertical wall, and connection to round or flat conductor	
Standards	EN 62561-1, EN 62561-4	

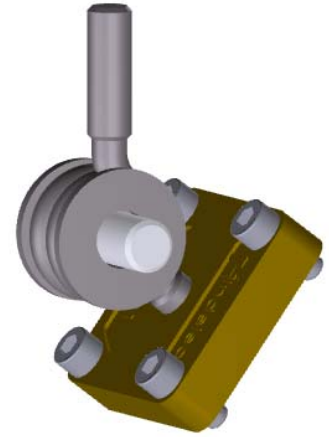


Dimensions (mm)

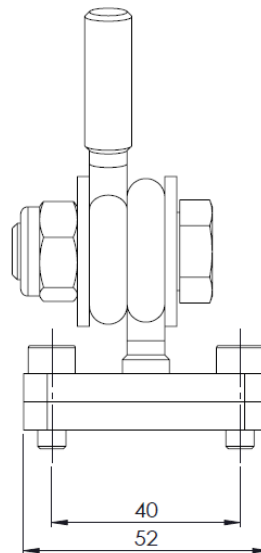
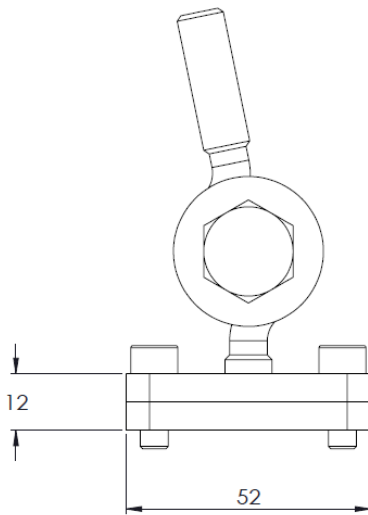
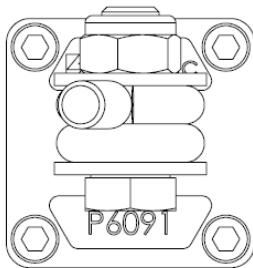


Pivoting Saddle

Characteristics	P4052B
Material	Stainless steel - brass
Weight (kg)	0.430
Connection	Flat conductor clamped between the plates
Application	Fixing the tip and conductors on an inclined support
Standards	EN 62561-1, EN 62561-4



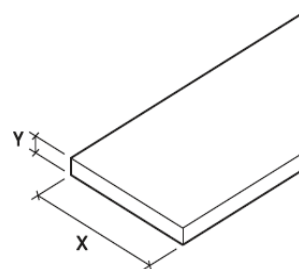
Dimensions (mm)



Conductors

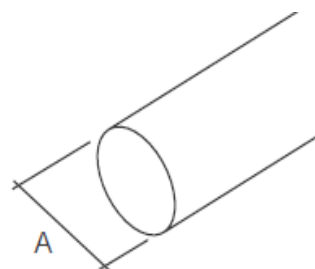
TAPE CONDUCTORS Standard EN 62561-2

Ref.	Dimensions (X x Y) mm	Material	Weight per meter (kg)	Length
P5001B	27 x 2	Tinned copper	0.500	50m Coil
P5001H	27 x 2	Tinned copper	0.500	70m Coil
P5001X	27 x 2	Tinned copper	0.500	Per meter
P5001J	30 x 2	Tinned copper	0.534	50m coil
P5004	30 x 3	Aluminum	0.230	90m Coil
P5005	30 x 2	Stainless steel AISI 304	0.500	60m Coil
P5006	30 x 3,5	Galvanized steel	0.850	60m Coil



ROUND CONDUCTORS Standard EN 62561-2

Ref.	Diameter (A) mm	Material	Weight per meter (kg)	Length
P5011	8	Tinned copper	0.464	50m Coil
P5012	8	Bare Copper	0.440	70m Coil
P5013	8	Galvanized steel	0.395	Per meter
P5015	10	Aluminium	0.215	90m coil
P5016	8	Stainless steel AISI	0.400	60m coil

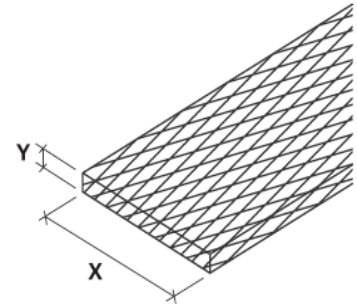


Flexible Conductors

COPPER BRAID

Standard EN 62561-2

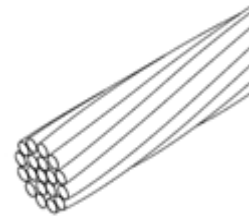
Ref.	Dimensions (X x Y) mm	Section mm ²	Material	Weight by meter (kg)	Length
P5021	30 x 3,5	50	Tinned copper	0.470	25m Coil
P5025	16 x 2	16	Tinned copper	0.144	50m Coil



CABLE

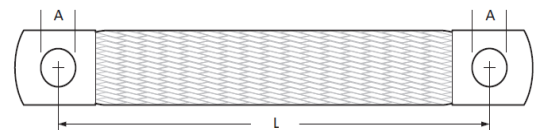
Standard EN 62561-2

Ref.	Section mm ²	Material	Weight by meter (kg)	Length
C836	50	Raw copper	0.420	Coil 50m



FLEXIBLE COPPER EARTH BRAID

Standard EN 62561-2



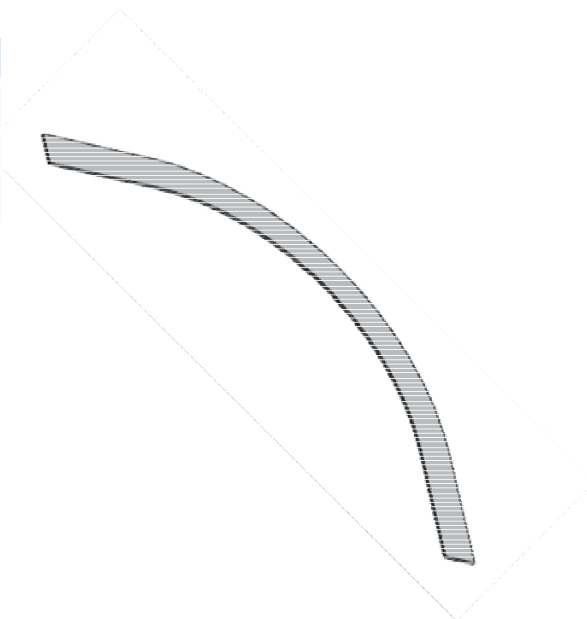
Ref.	Section mm ²	Length (L) mm	Ø eyelet (A) mm	Material	Weight (kg)
P5022	50	300	10,5	Tinned copper	0.185
P5023	50	500	10,5	Tinned copper	0.290
P5024	50	1000	10,5	Tinned copper	0.520

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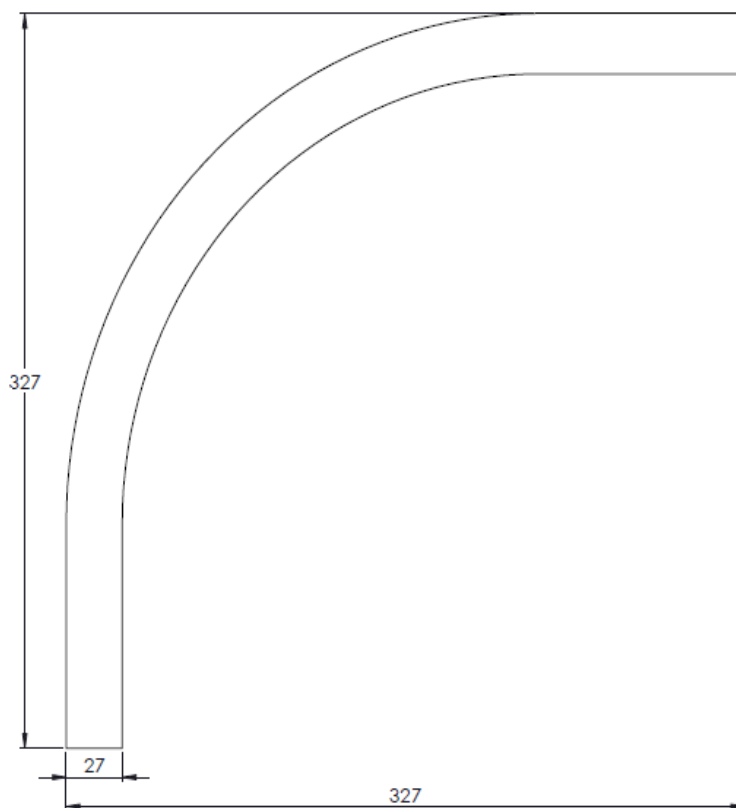
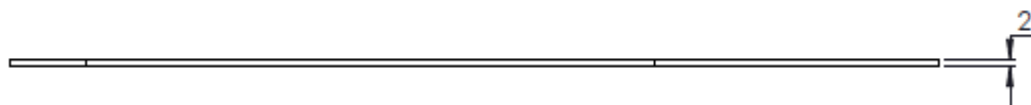


Tinned Copper Tape Elbow

Characteristics	P5007
Material	Tinned copper
Weight (kg)	0.245
Application	achieve an angle with tape conductor



Dimensions (mm)



DOC190a.VEN-Rev0



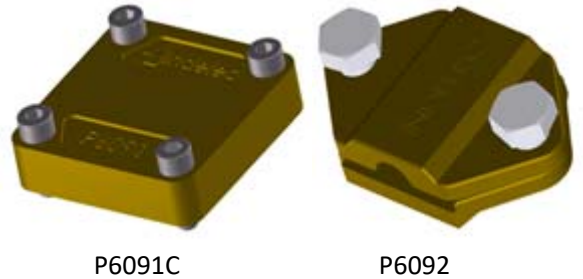
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Brass Square Clamp

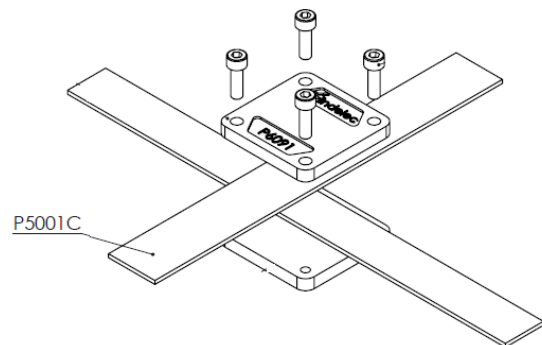
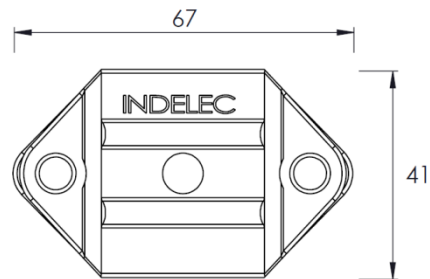
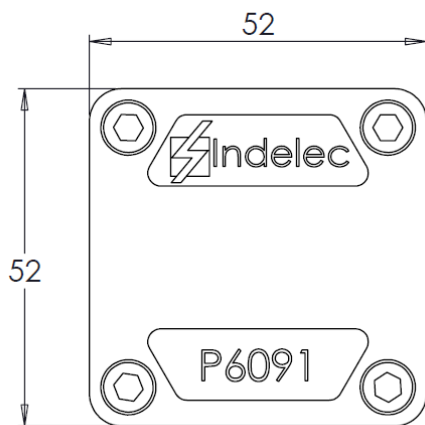
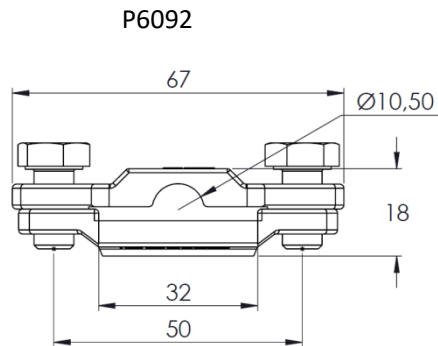
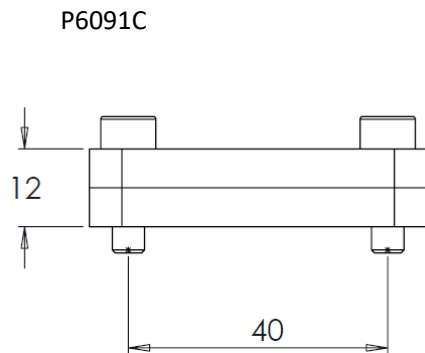
Characteristics	P6091C	P6092
Material	Brass	
Conductor	Flat	Flat or round
Weight (kg)	0.275	0.205
Application	Connection between conductors	
Standard	EN 62561-1	



P6091C

P6092

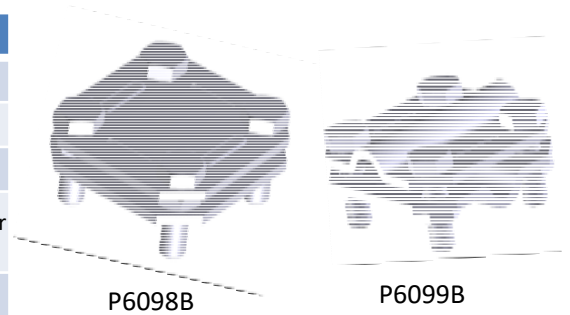
Dimensions (mm)



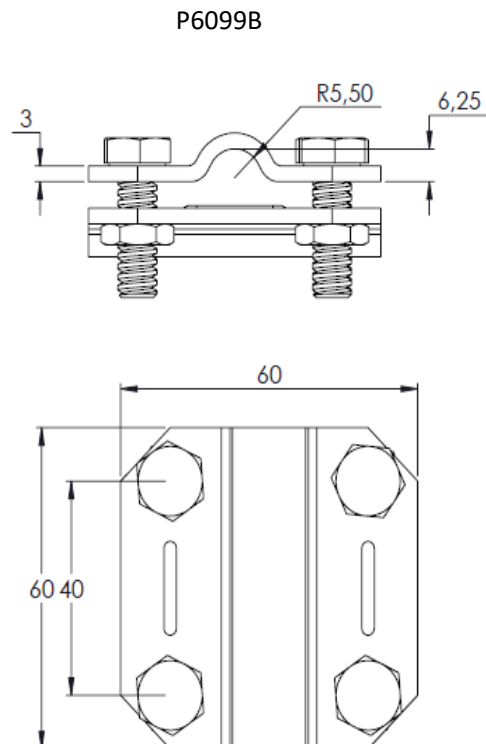
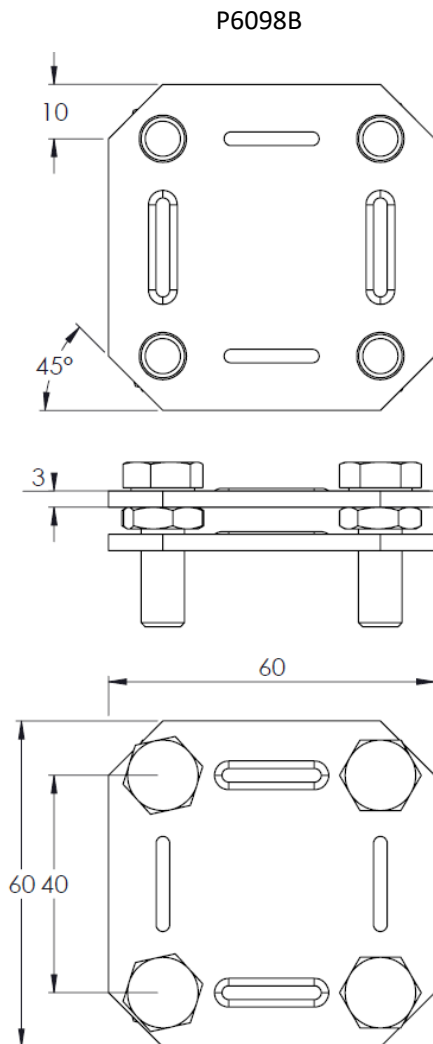
Application

Galvanized steel Square Clamp

Characteristics	P6098B	P6099B
Material	Galvanized steel	
Conductor	Tape	Tape or Round
Weight (kg)	0.220	0.250
Application	Connection between 2 tape conductors	Connection between 2 tape or round conductors
Standard	EN 62561-1	



Dimensions (mm)



DOC208a.VEN-Rev0



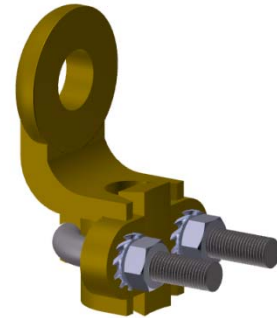
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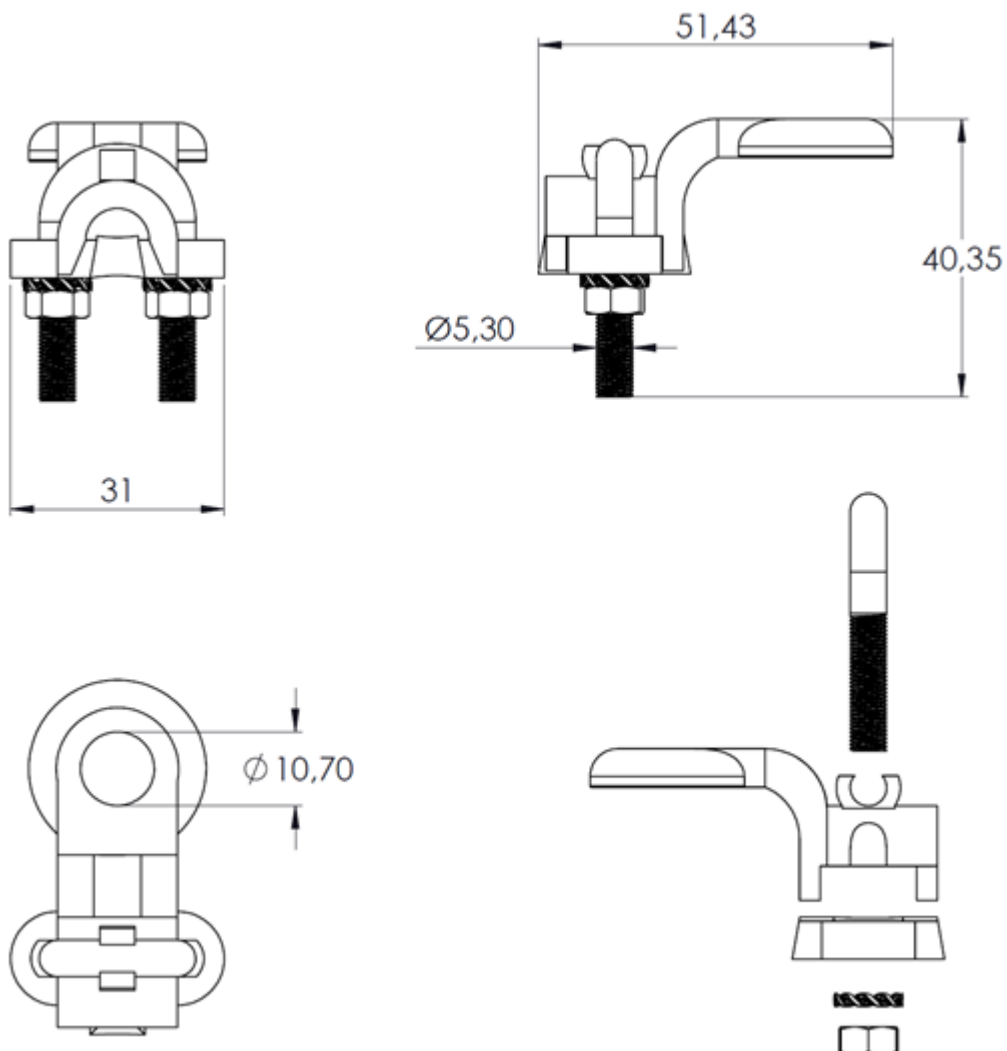
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Brass Socket for Round Conductor

Characteristics	P6096
Material	brass
Weight (kg)	0.075
Application	Connecting round conductor on earth bar
Standard	EN 62561-1



Dimensions (mm)



DOC206a.VEN-Rev0



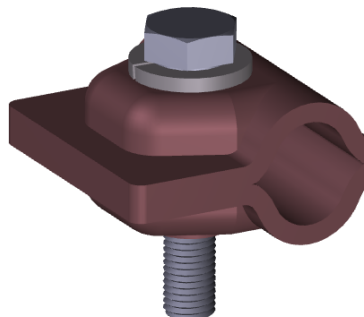
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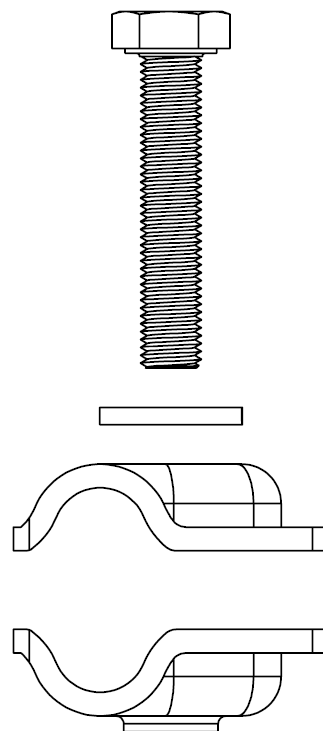
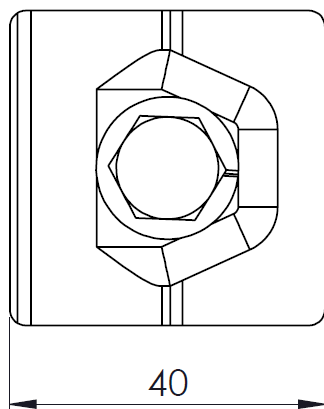
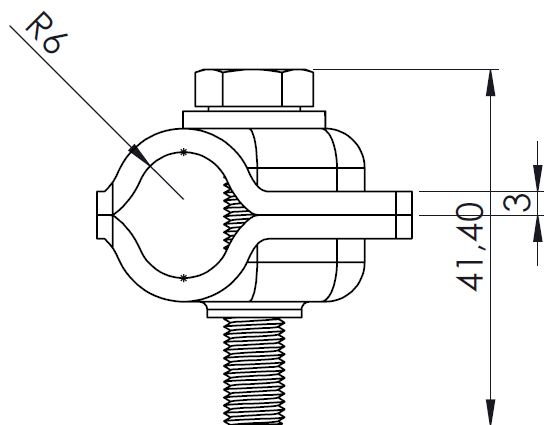
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Multi Purpose Square Clamp for Round Conductor

Characteristics	P6097
Material	Copper
Weight (kg)	0.115
Application	Connecting round conductors (8mm)
Standard	EN 62561-1

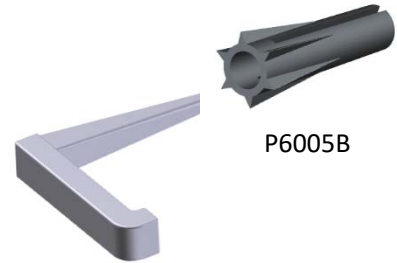


Dimensions (mm)



Galvanized Steel Hook and Lead Plug

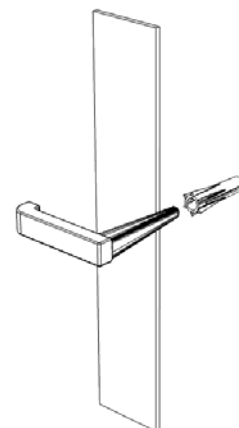
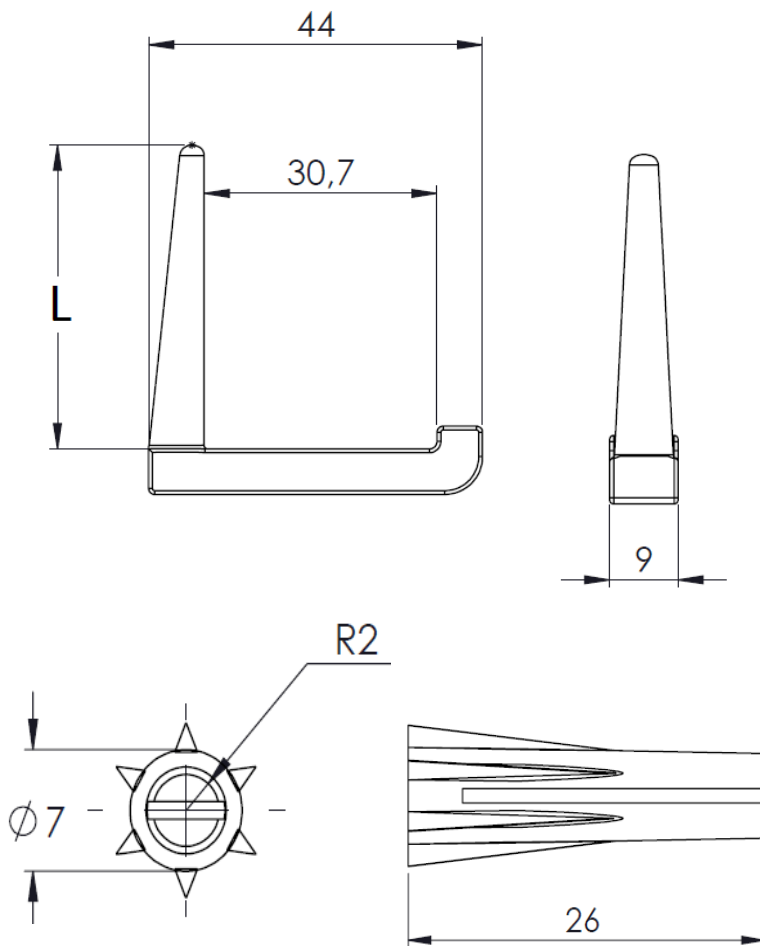
Characteristics	P6001	P6002	P6005B
Materiel	Galvanized steel		Lead
Length L (mm)	30	40	26
Weight (kg)	0.015	0.025	0.005
Application	Maintain tape conductor on concrete wall		
Standard	EN 62561-4		



P6002

P6005B

Dimensions (mm)



Application

Drilling \varnothing of the wall
7mm

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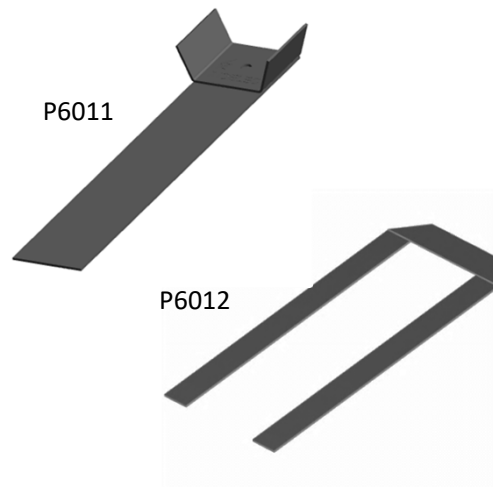
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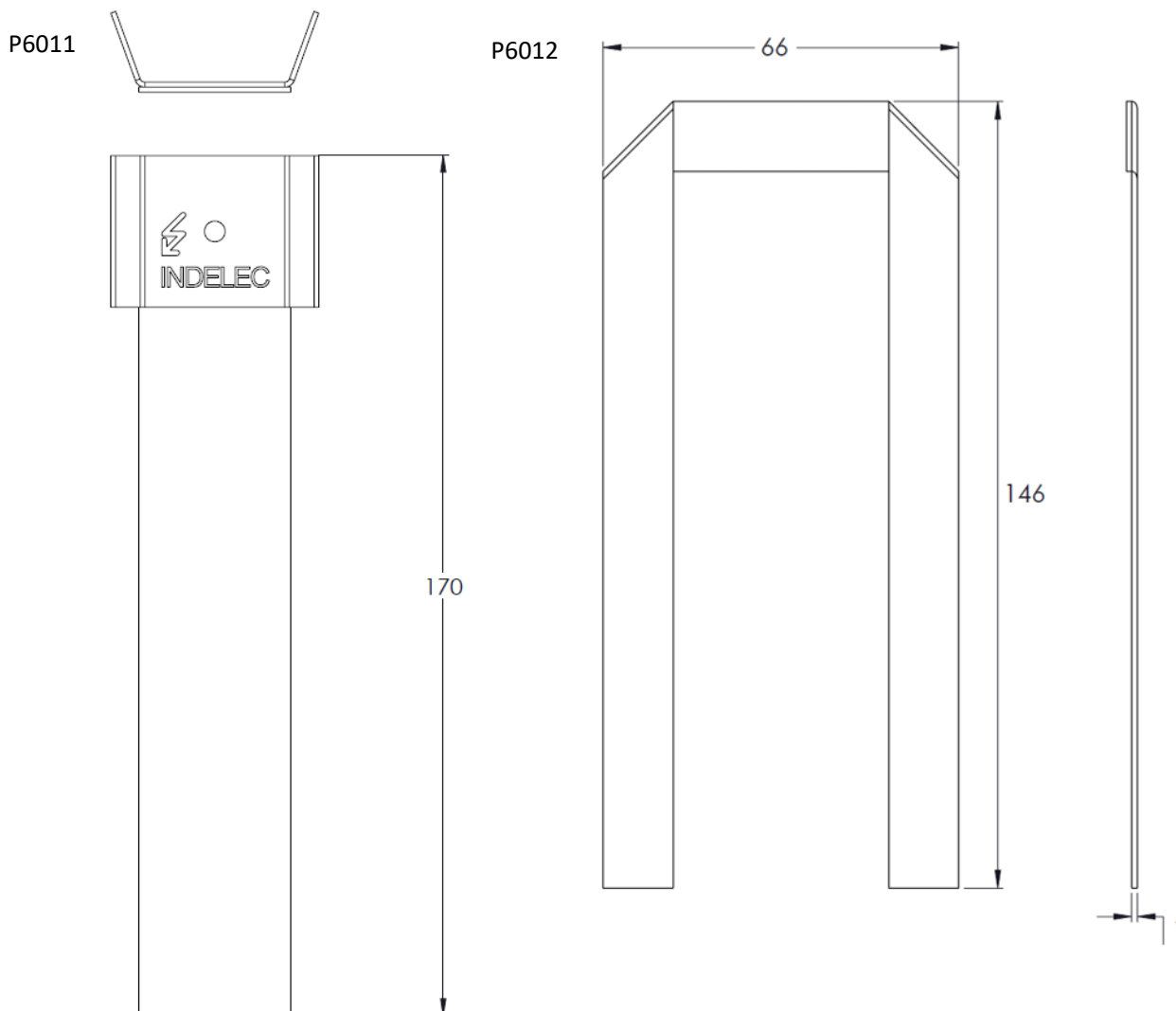
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Slate Holdfast for Tape

Characteristics	P6011	P6012
Material	Tinned copper	
Weight (kg)	0.065	0.030
Thickness (mm)	1	1
Application	Used to fix tape on a tile or slate roof. The mounting is pushed in between two tiles and the two flanges folded back to hold the conductor in place	Used to fix tape on a tile or slate roof. The mounting is pushed in between two slates and the conductor is welded on.
Standard	EN 62561-4	



Dimensions (mm)



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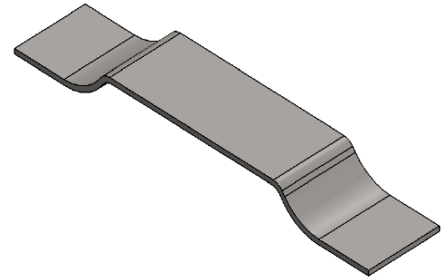
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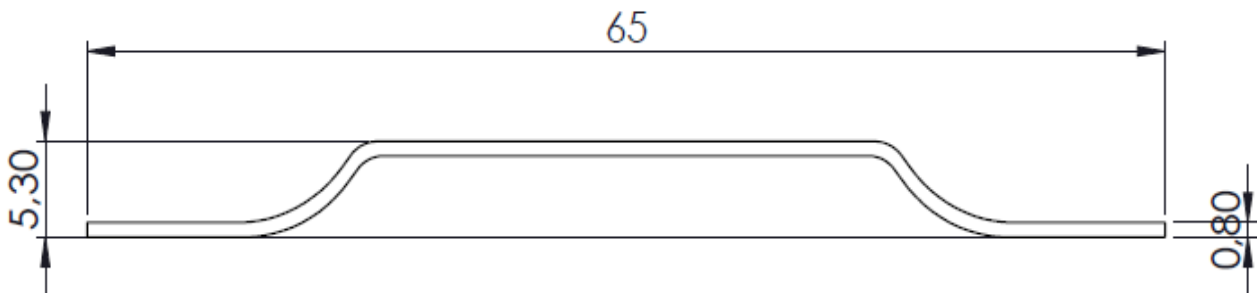
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Tinned Copper Welding Clip

Characteristics	P6021
Material	Tinned copper
Weight (kg)	0.150
Thickness (mm)	1
Application	Used to fix tape on to a metal roof (e.g. zinc or lead). The clip is welded to the roof on either side of the tape.
Standard	EN 62561-4



Dimensions (mm)

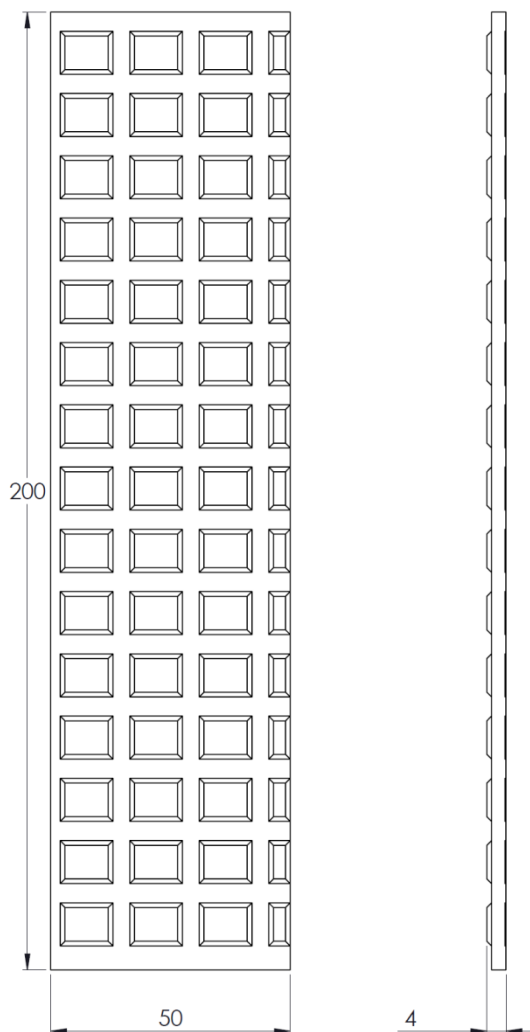


Heat Weldable Holdfast (x25)

Characteristics	P6031
Material	Aluminum, tar
Weight (kg)	1.320 (pack of 25 pcs)
Packing	25 pieces
Application	Used to fix tape to waterproof roofing felt.



Dimensions (mm)



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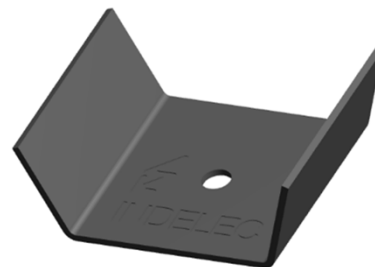
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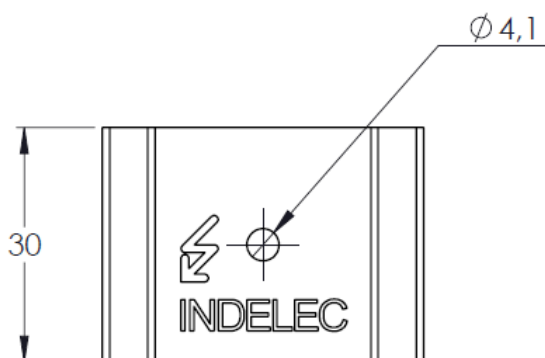
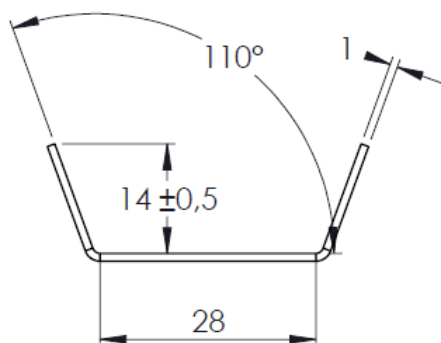
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Tinned Copper DC Tape Clip

Characteristics	P6041
Matter	Tinned copper
Weight (kg)	0.010
Thickness	1mm
Application	The fold-back clip is first fixed to the support wall by means of pop rivets, metal screws or expanding plugs.
Standard	EN 62561-4



Dimensions (mm)

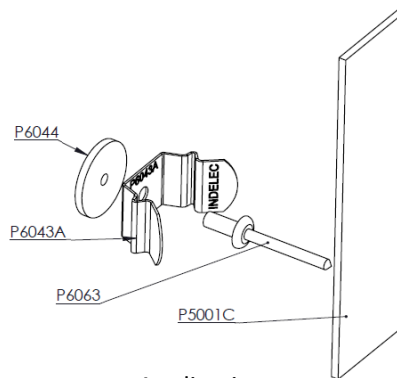
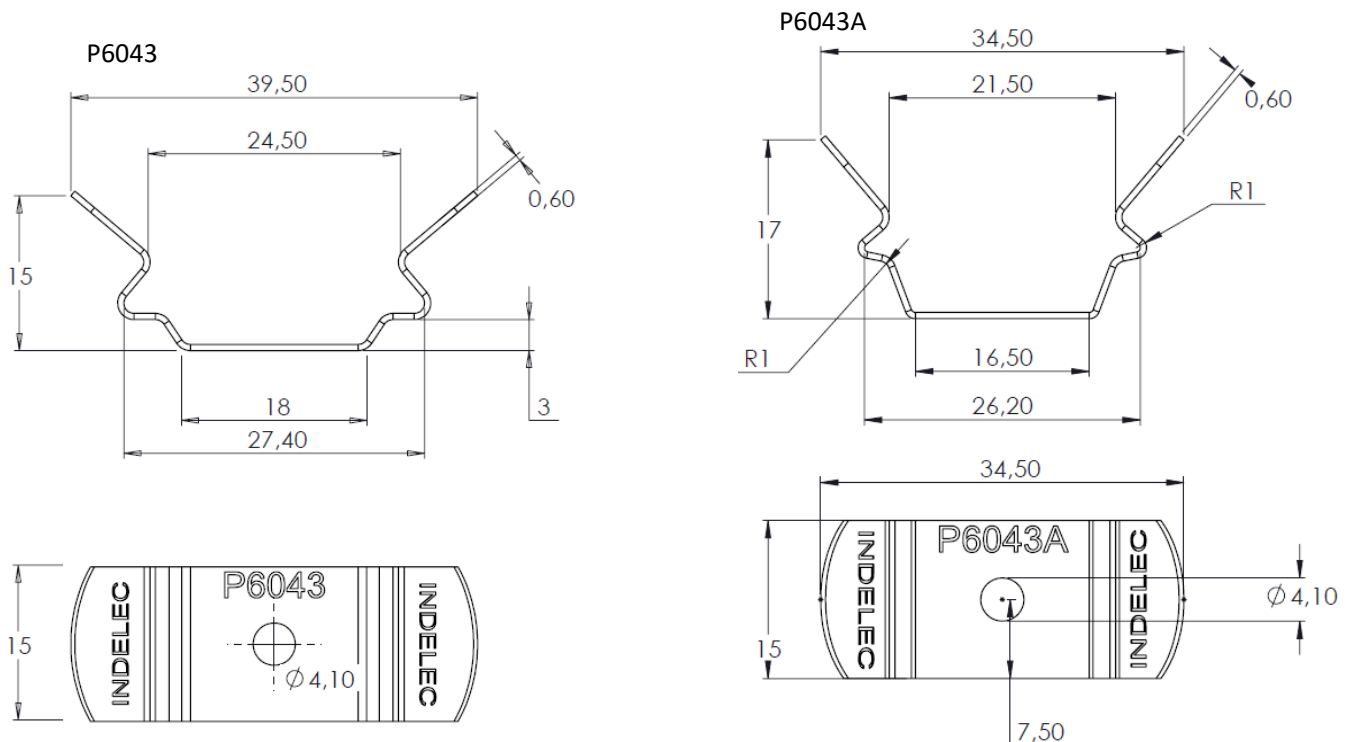


Stainless Steel Push-In DC Tape Clip

Characteristics	P6043	P6043A
Conductors	tape 30x2 mm	Tape 27x2 mm
Material	Stainless Steel	
Weight (kg)	0.004	
Fixing	By screws, rivets (not included), waterproofing thanks to washer (ref: P6044)	
Application	These clips hold the tape in place and are either pop-riveted or screwed down.	
Standard	EN 62561-4	



Dimensions (mm)



Application

DOC197a.VEN-Rev0

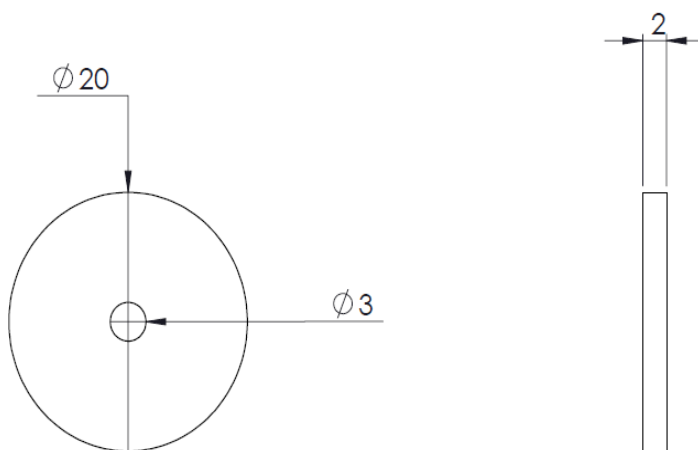


Rubber Sealing Plain Washer

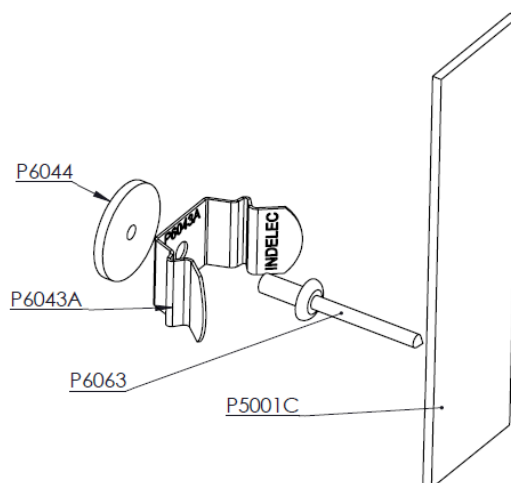
Characteristics	P6044
Material	Rubber
Weight (kg)	
Application	Used with rivets to hold fixings such as clips in place on steel surfaces or cladding panels. The rivets supplied are waterproof.



Dimensions (mm)



Application



DOC198a.VEN-Rev0



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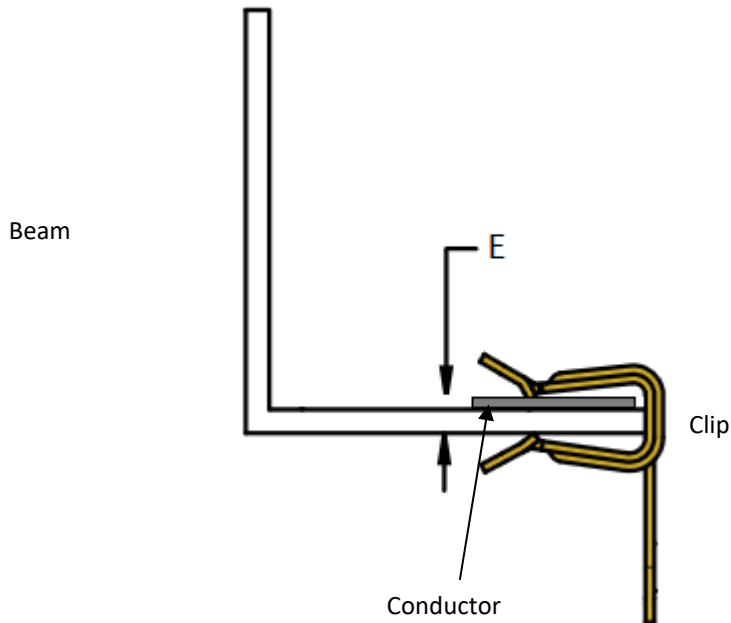
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Hammer-on Beam Clips

Characteristics	C1460	C1461	C1462
Material	Spring steel		
Admissible conductor	Tape conductor thickness 2mm		
Weight (kg)	0.060	0.014	0.014
Thickness E (beam + conductor)	14-20 mm	8-14 mm	3-8 mm
Application	Maintains a tape conductor on metallic beam Requires only a hammer to install		



Application

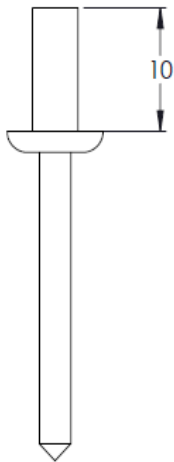


Waterproof Pop Rivet

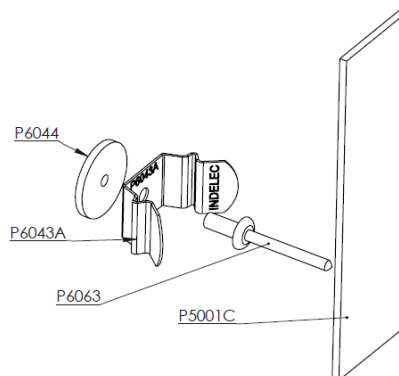
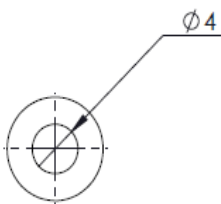
Characteristics	P6061	P6062	P6063
Material	Aluminium	Copper	Stainless steel
Weight (kg)	0.002		
Packing	100 units		
Application	These rivets are used to hold fixings such as clips in place on steel surfaces or cladding panels. The rivets supplied are waterproof.		



Dimensions (mm)



Rivet Clamping Tool ref. P6064



Application

DOC201a.VEN-Rev0



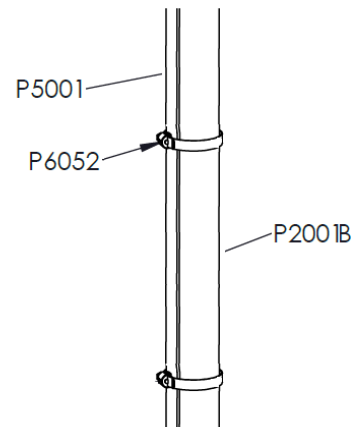
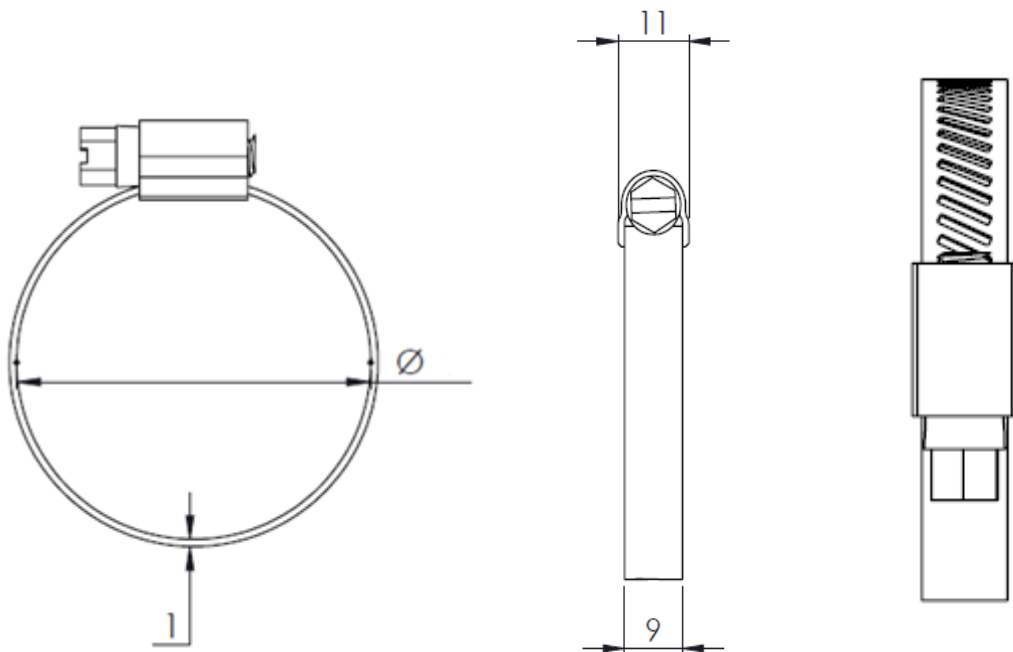
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Stainless Steel Mast Collar

Characteristics	P6051	P6052	P6053	P6054
Material	Stainless steel			
Weight (kg)	0.020	0.020	0.025	0.025
Ø (mm) min-maxi	32-50	40-60	60-80	70-90
Application	Used to maintain conductor on tube. The collar is held in place by screwing.			
Standard	EN 62561-4			



Application

DOC199a.VEN-Rev0



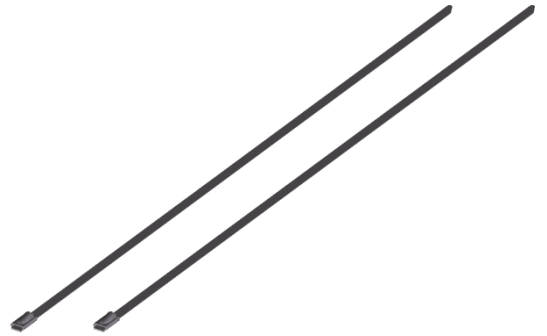
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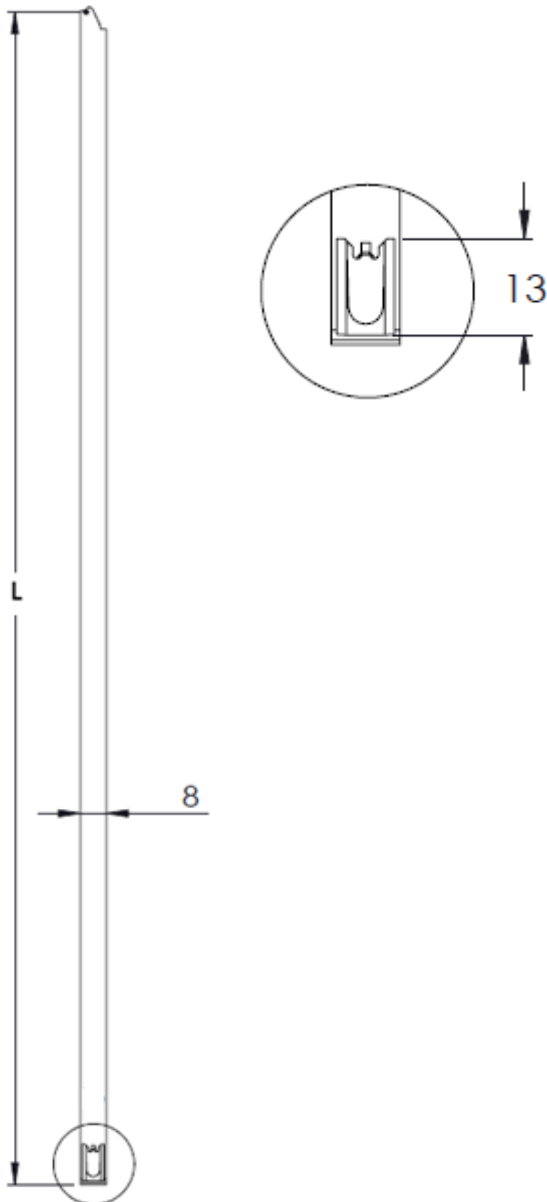
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Stainless Steel Clamping Collar

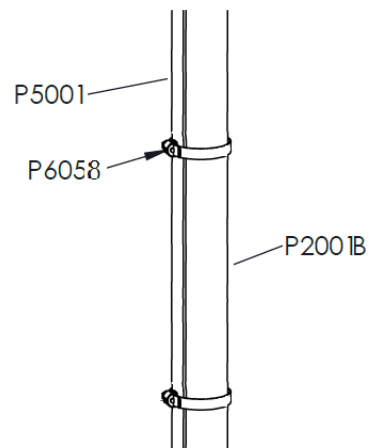
Characteristics	P6058	P6059
Material	Stainless steel	
Length (mm)	360	520
Weight (kg)	0.005	0.010
Application	Down Conductor fixing on tube. Self-locking collar which is permanently tightened around its support thanks dedicated pliers (ref P6060)	
Ø max (mm)	100	150
Normes	EN 62561-4	



Dimensions (mm)



Collar Pliers ref. P6060



Application

DOC200a.VEN-Rev0



Non-metallic DC Clip

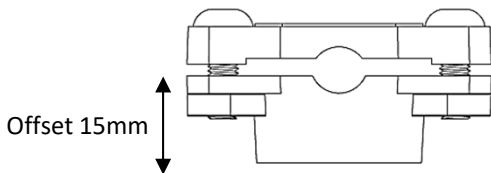
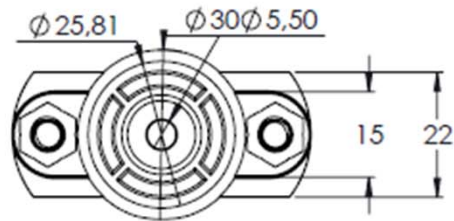
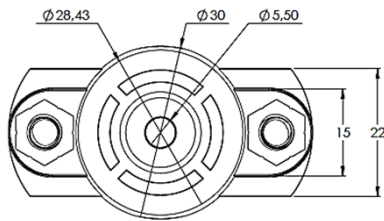
Characteristics	P6015	P6016
Material	Polypropylene	
Weight (kg)	0,028	0,040
Application	Used to fix a flat conductor (max 30x3,5mm) or round conductor (max ϕ 10mm)	
Fixing	To be screwed in place or held by a screw-in bracket M6	
Standard	EN 62561-4	



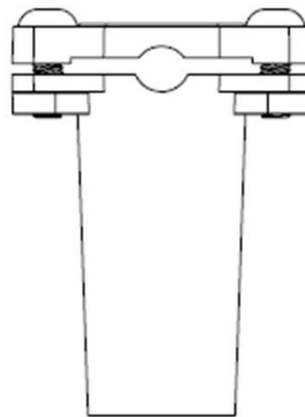
P6015

P6016

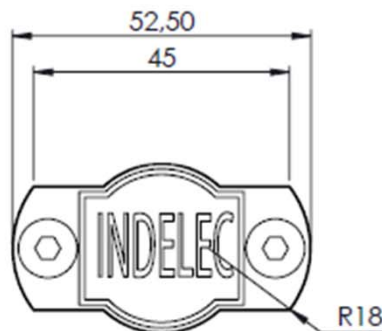
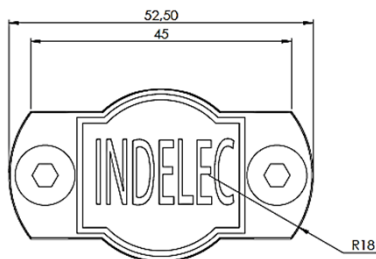
Dimensions (mm)



Offset 15mm



Offset 60mm

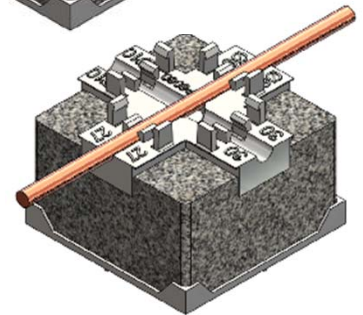
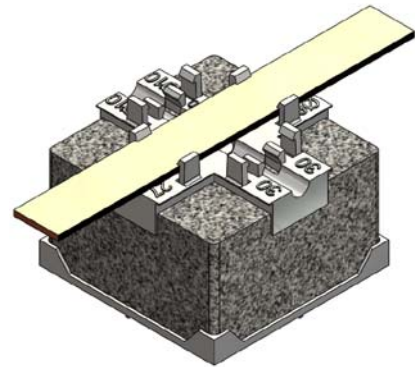


DOC279a.VEN-Rev0

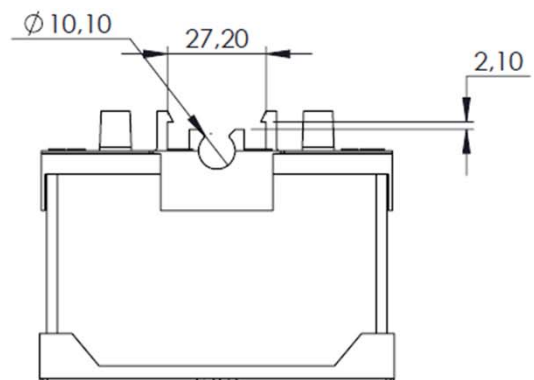
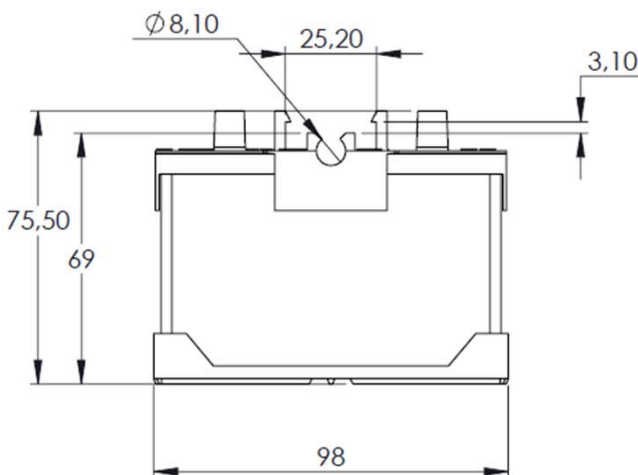
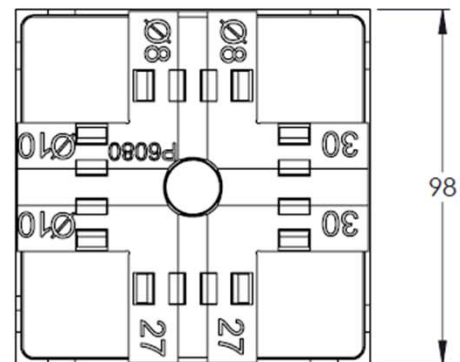
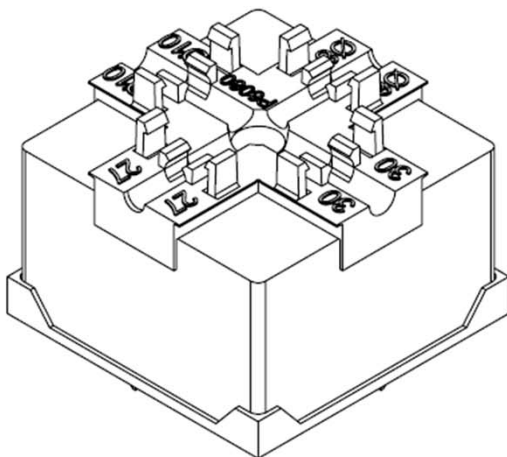


Universal Concrete Block

Characteristics	P6080
Allowable conductor	th.2mm 27-30mm / th.3mm 25-27mm Ø 8 - 10 mm
Material	Block : concrete – holder : plastic
Weight (kg)	1,000
Packing	10 units pack
Application	Maintain tape or round conductor on flat roof



Dimensions (mm)



DOC277a.VEN-Rev0



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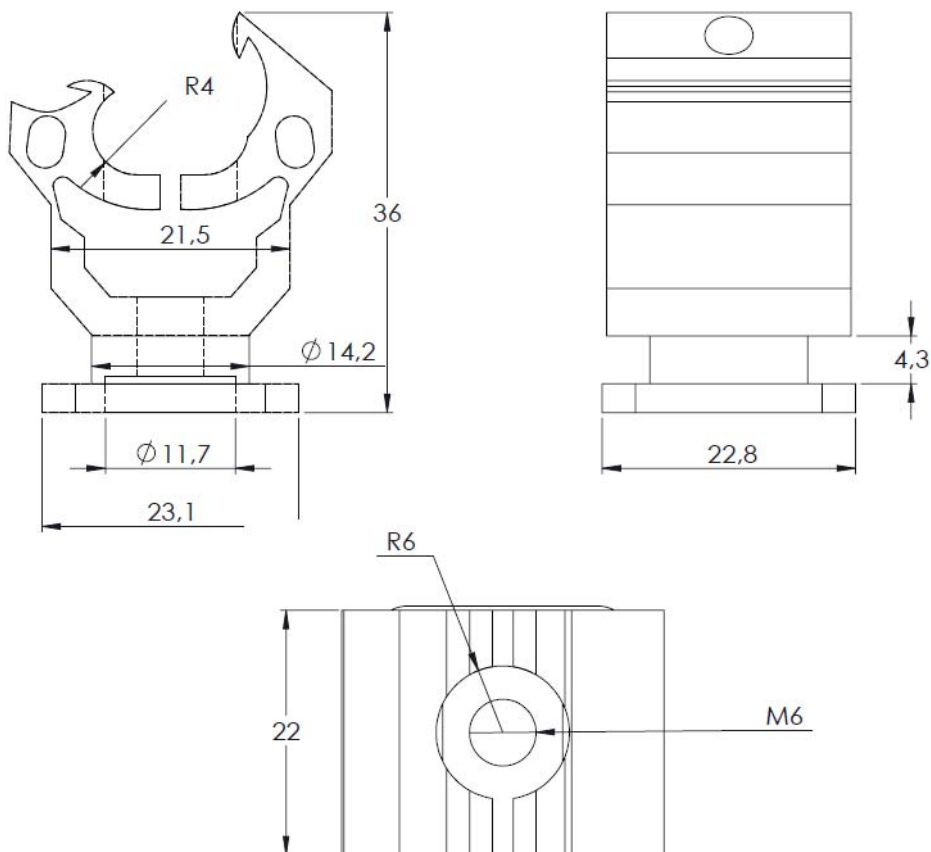
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Non metallic clip for Round Conductor

Characteristics	P6072
Material	PVC
Weight (kg)	0.010
Conductor	Round \varnothing 6-10 mm
Application	Round conductor fixing
Fixing	To be screwed in place or held by a screw-in bracket (M6)
Standard	EN 62561-4



Dimensions (mm)

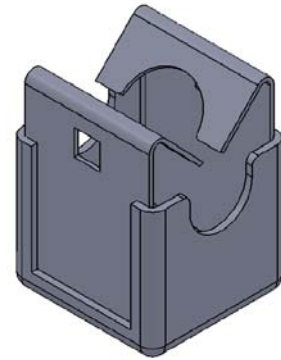


DOC203a.VEN-Rev0

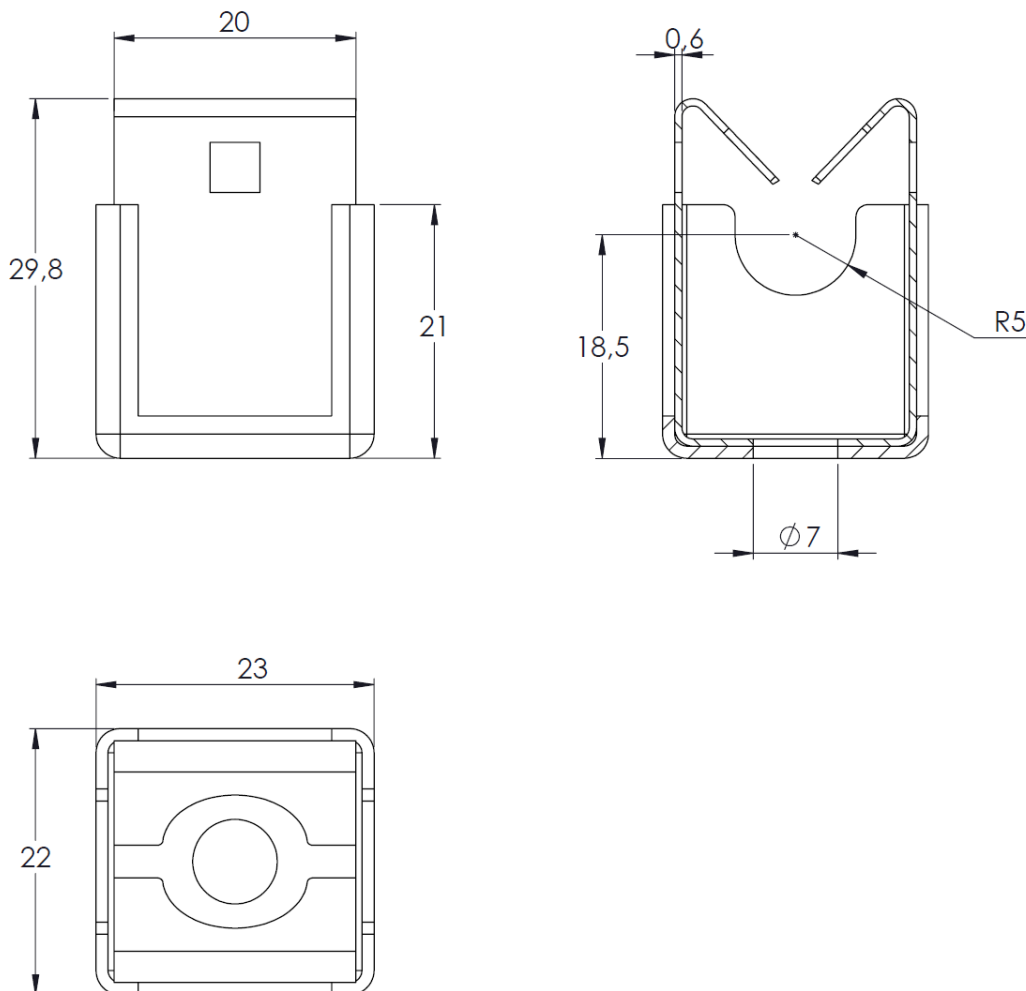


Stainless steel clip for round conductor

Characteristics	P6143
Material	Stainless Steel
Weight (kg)	0.010
Application	These clips hold the round conductor in place and are either pop-riveted or screwed down.



Dimensions (mm)



DOC264a.VEN-Rev0



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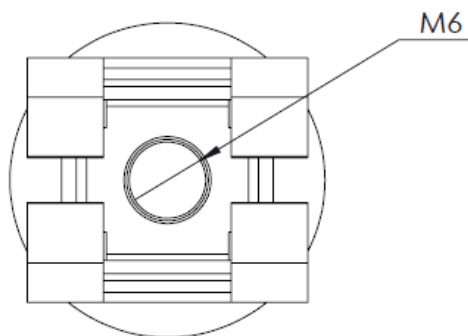
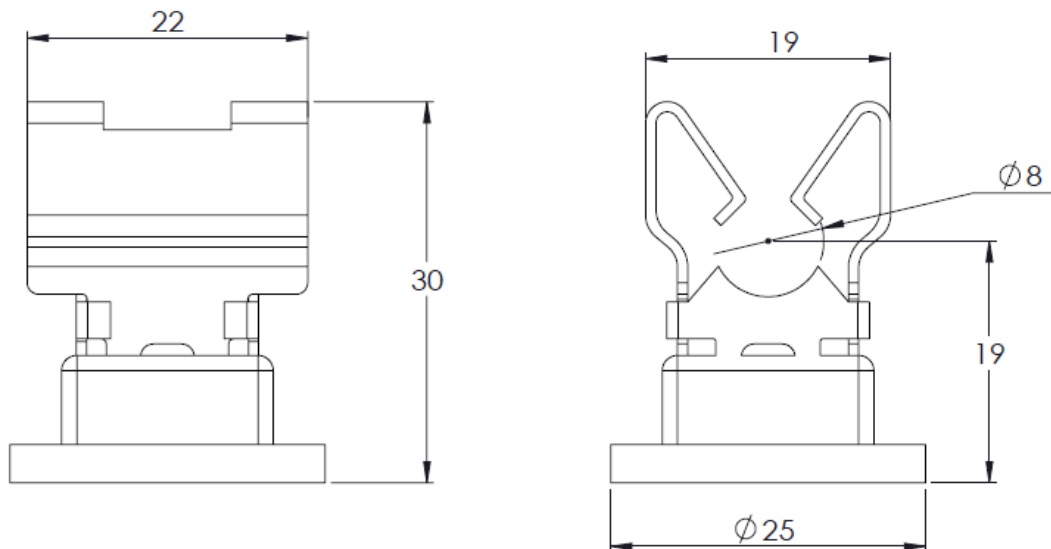
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Heritage Building clip for round conductor

Characteristics	P6144	P6145
Material	Stainless Steel / PVC	Bare Copper / PVC
Weight (kg)	0.010	0.010
Conductor	Round \varnothing 6-10 mm	
Application	Round conductor fixing	
Fixing	These clips hold the round conductor in place and are either pop-riveted or screwed down.	
Standard	EN 62561-4	



Dimensions (mm)



DOC265a.VEN-Rev0



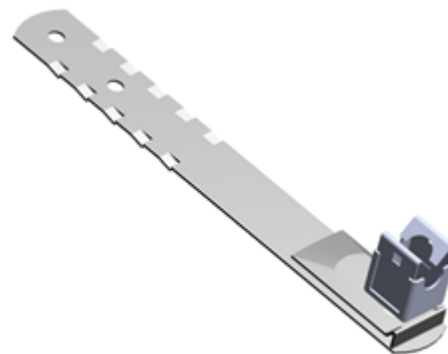
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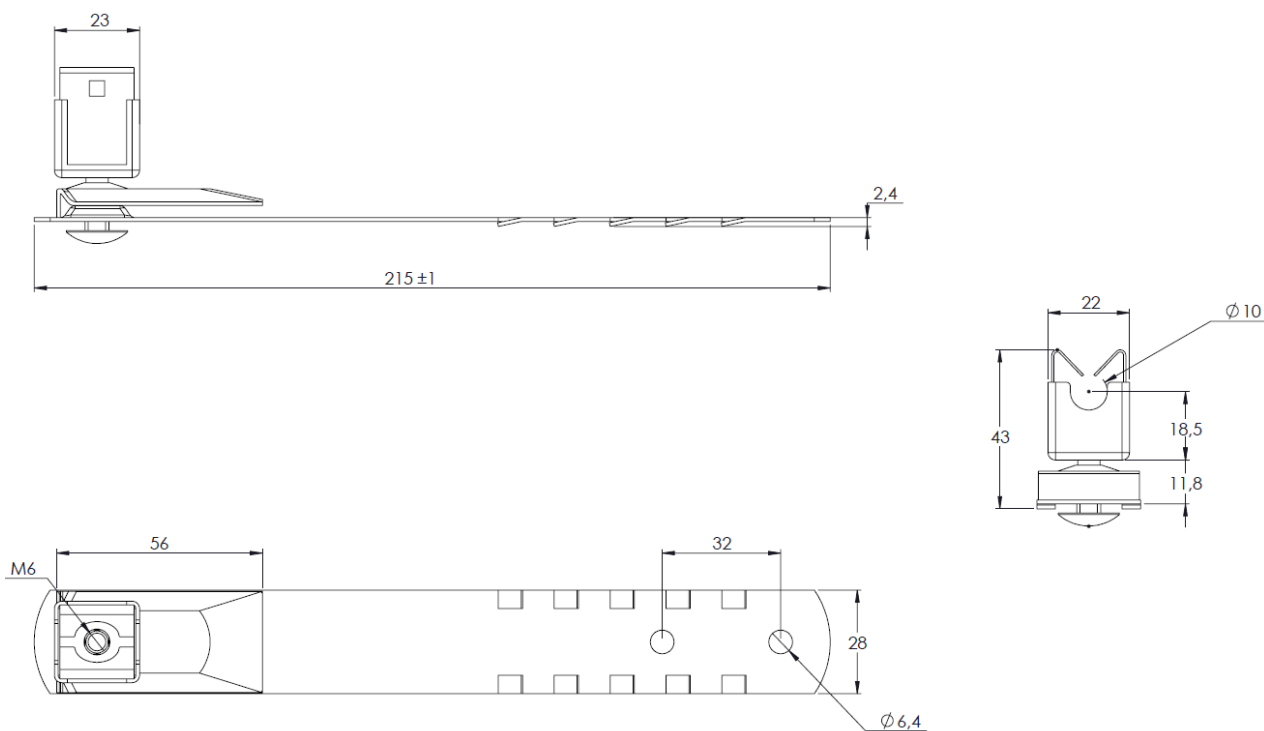
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Stainless Steel Slate Holdfast for round conductor

Characteristics	P6110
Material	Stainless Steel
Weight (kg)	0.075
Conductor	Round, \varnothing 6 to 10 mm
Application	Used to fix round conductor on a slate roof.
Fixing	The mounting is locked/screwed/folded in between two tiles
Standard	EN 62561-4



Dimensions (mm)



DOC209a.VEN-Rev0



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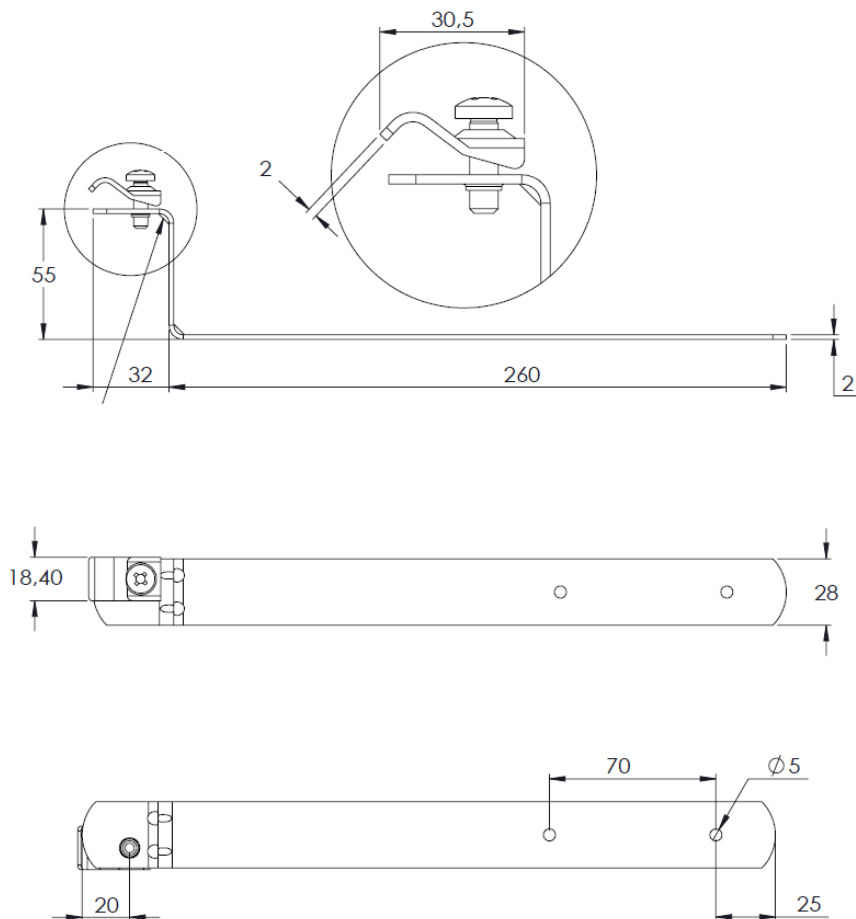
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Copper Slate Holdfast for round conductor – Heritage Building

Characteristics	P6111
Material	Copper
Weight (kg)	0.180
Conductor	Round, \varnothing 6 to 10 mm
Application	Used to fix round conductor on a slate roof.
Fixing	The mounting is locked/screwed/folded in between two tiles
Standard	EN 62561-4



Dimensions (mm)



DOC210a.VEN-Rev0



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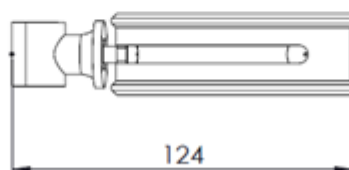
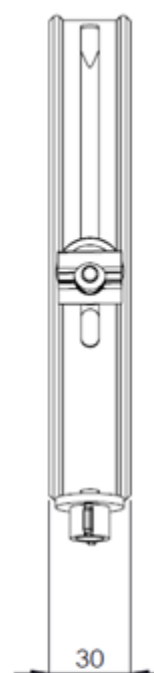
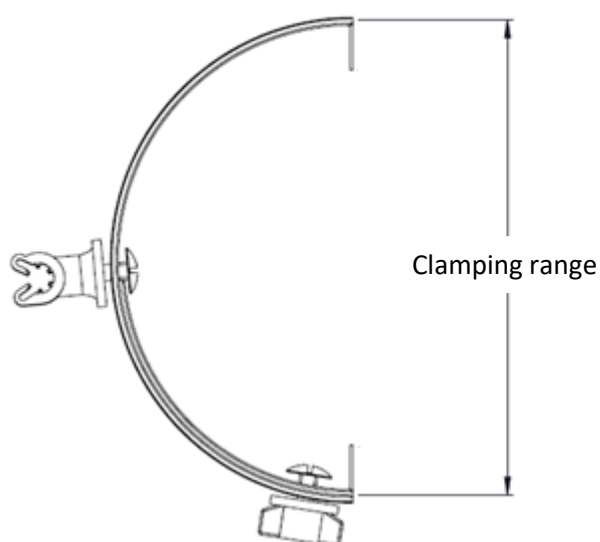
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Stainless Steel ridge conductor holder

Characteristics	P6114
Material	Stainless Steel/ PVC
Weight (kg)	0.085
Conductor	Round \varnothing 6-10 mm
Application	Used to fix round conductor on a roof ridge without drilling
Fixing	Clamping on the ridge (adjustable)
Clamping range	180 – 280 mm
Standard	EN 62561-4



Dimensions (mm)



DOC211a.VEN-Rev0



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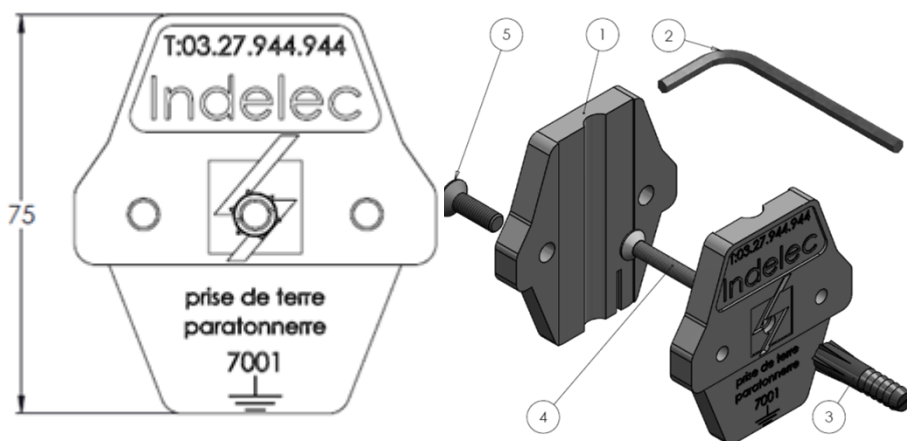
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Test Clamp

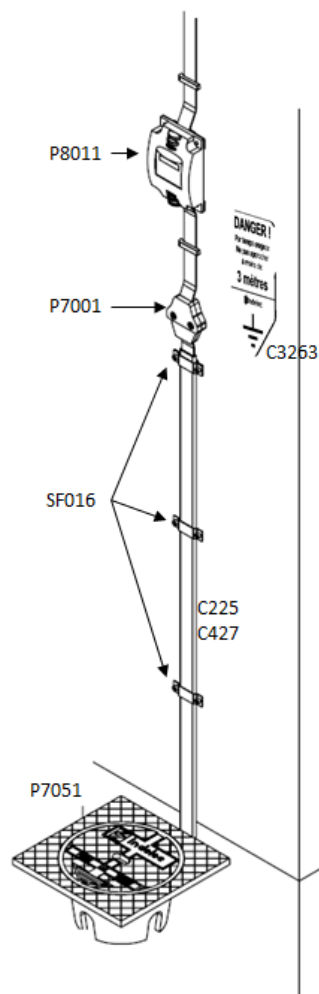
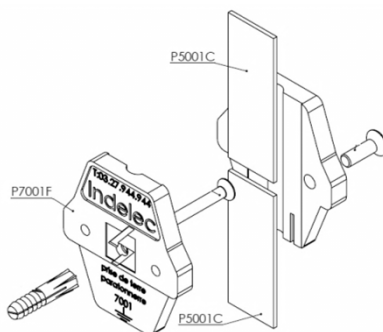
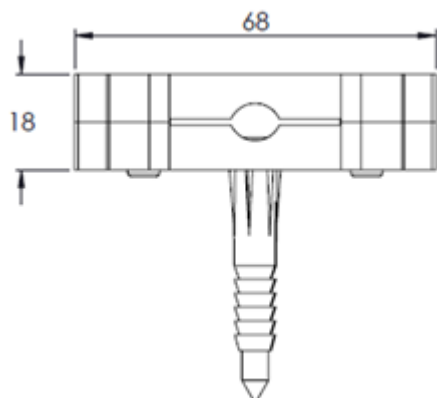
Characteristics	P7001F
Matter	Stamped brass
Weight (kg)	0.535
Application	allows the down conductor to be disconnected from the earthing point so that the earth resistance may be measured
Standard	EN 62561-1



Dimensions (mm)



No. ARTICLE	DESCRIPTION	QTE
1	Joint de contrôle laiton nickelé	1
2	Clé BTR 4mm	1
3	CHEVILLE Polyet. 8X35 - Verte	1
4	Vis Inox Pozl fraisée 5x50	1
5	Vis CHC M6 fraisée	2



Application

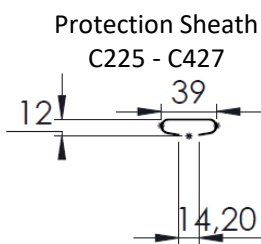
DOC214a.VEN-Rev0



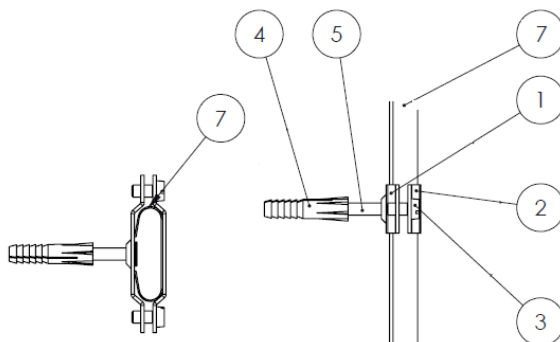
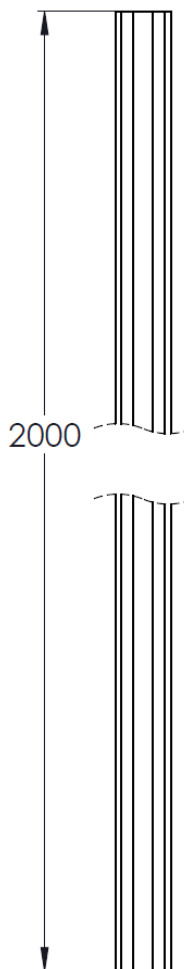
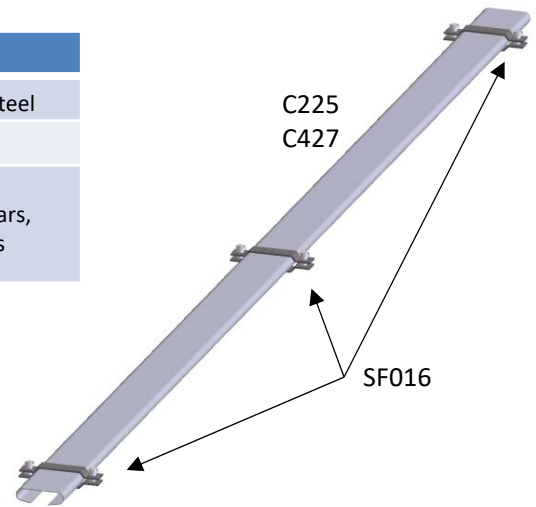
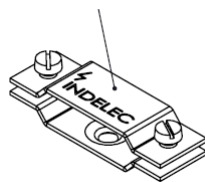
Protection Sheath for Tape Conductor

Characteristics	C225	C427	SF016
Material	Galvanized steel	Stainless Steel	Stainless Steel
Weight (kg)	0.935	0.935	0.125
Application	Ensures the down conductor is physically shielded from knocks at ground level.		Fixing collars, 3 pieces

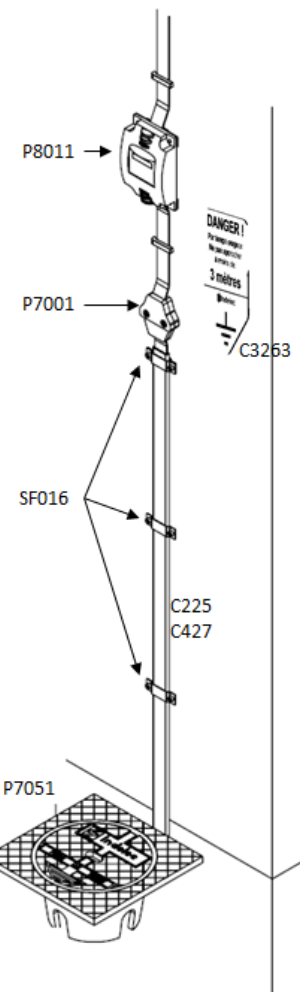
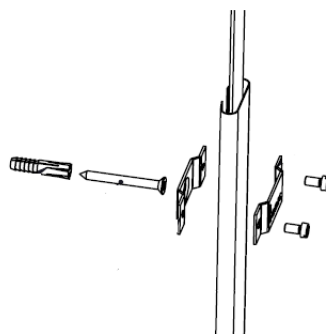
Dimensions (mm)



Collars (x3)
SF 016



	DESCRIPTION
1	Embase Collier de Gaine P7013
2	Couvercle collier de gaine P7013
3	Vis inox TCF M5x10 - DIN84
4	CHEVILLE Polyet. 8X35 - Verte
5	VIS INOX A2 - TF POZI - M 5X50 - AGGLO
7	GAINE - L2000MM



Application

DOC136a.VEN-Rev0



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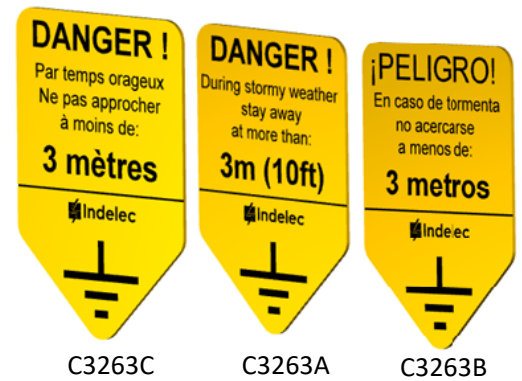
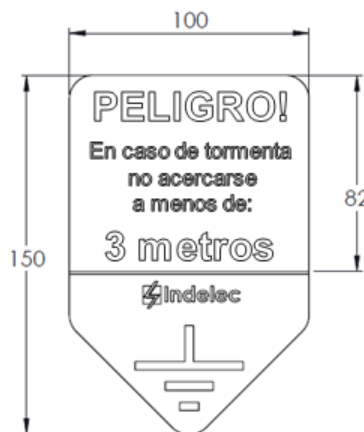
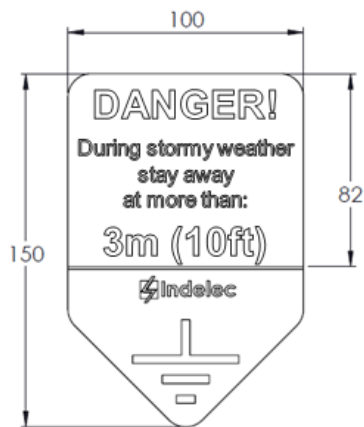
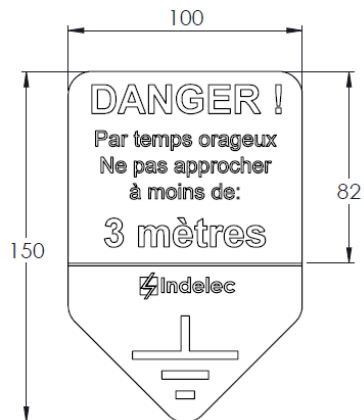


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Information Sign

Characteristics	C3263C	C3263A	C3263B
Material	PVC		
Language	French	English	Spanish
Application	Lightning Protection System Information Sign		

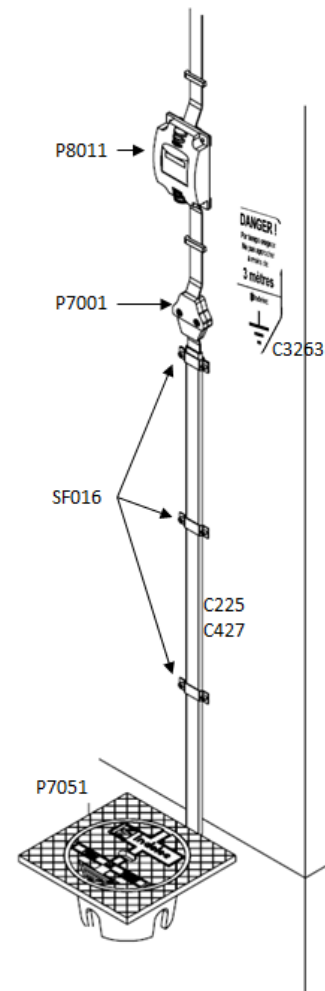
Dimensions (mm)



C3263C

C3263A

C3263B



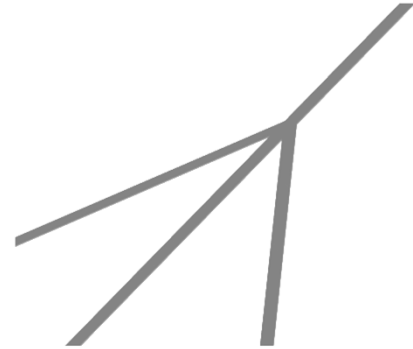
Application

DOC145a.VEN-Rev2

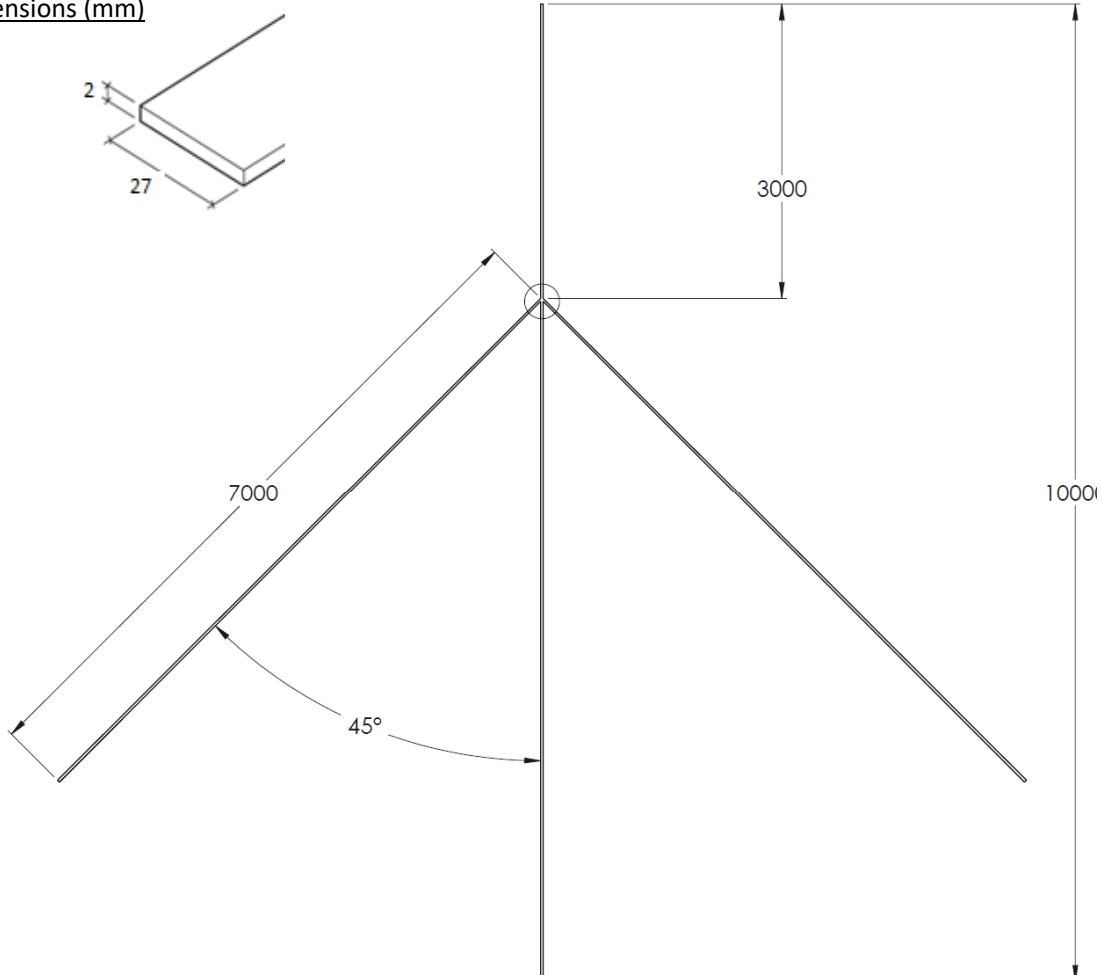


Factory-Made « Crow Foot » Earthing

Characteristics	P7021
Material	Tinned copper
Weight (kg)	12.000
Application	«Crow-Foot» earthing system consists of three 7- meter prongs angled at 45° and a 3-metre long central prong which is connected to the test clamp. This earthing system is easy to unroll and bury. It avoids mechanical connections which would be prone to corrosion over time



Dimensions (mm)



DOC215a.VEN-Rev0



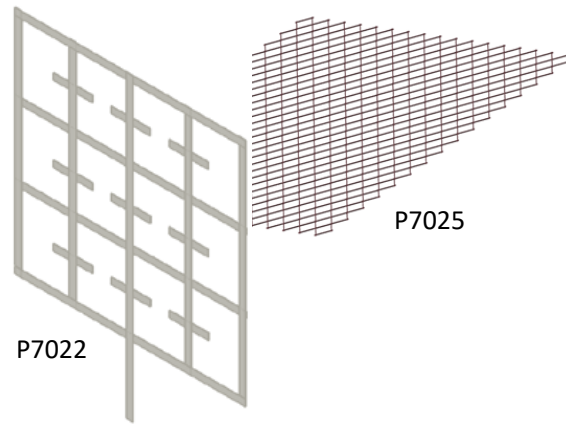
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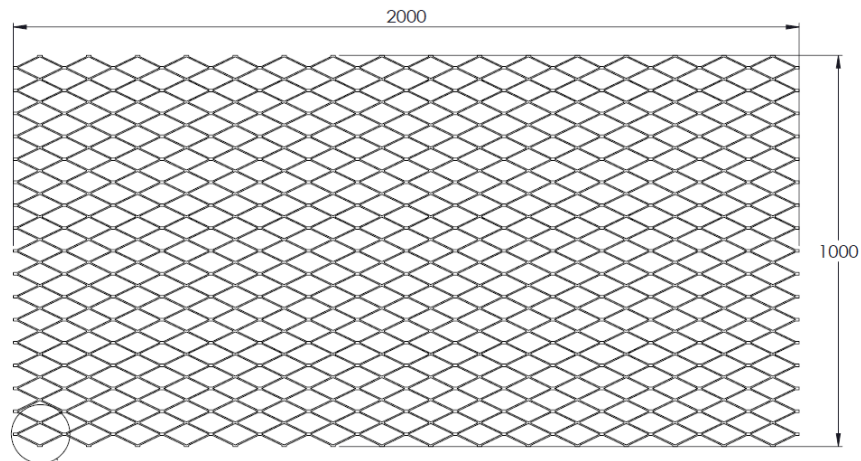
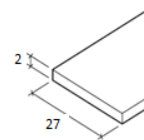
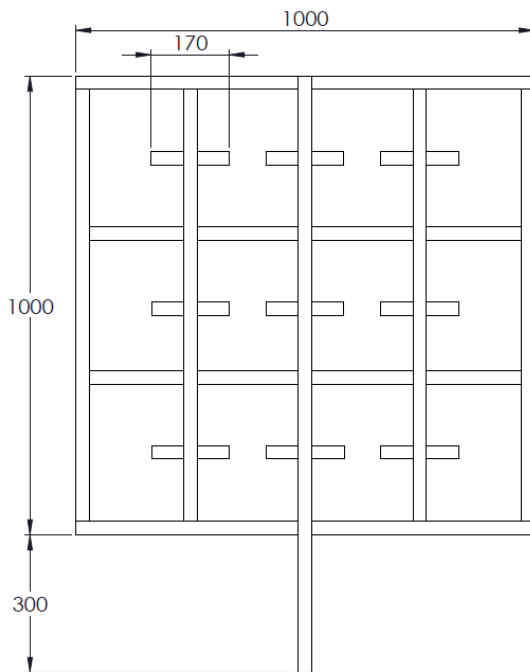
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Tinned Copper Catice Earth mat 1x1m

Characteristics	P7022	P7025
Material	Tinned copper	Copper
Weight (kg)	4.525	5.000
Application	Improving the grounding or when the ground does not allow the insertion rod	



Dimensions (mm)



DOC216a.VEN-Rev0



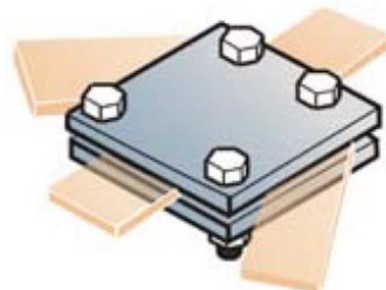
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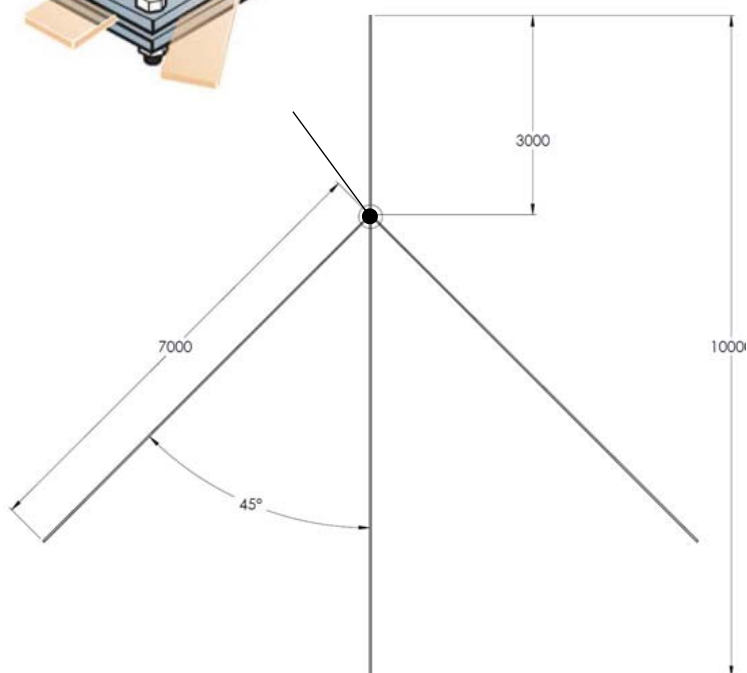
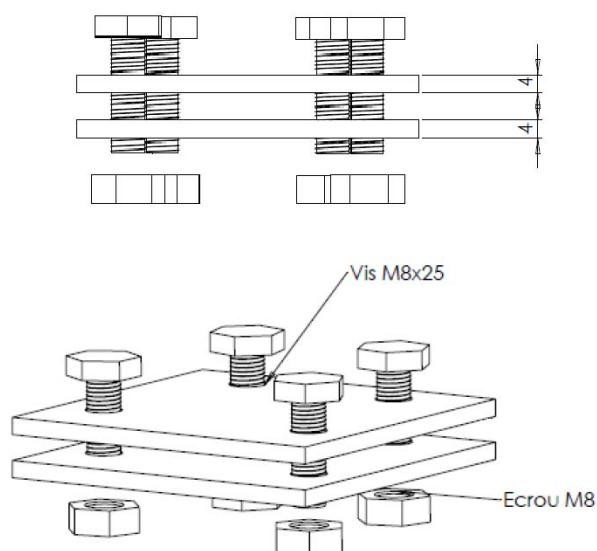
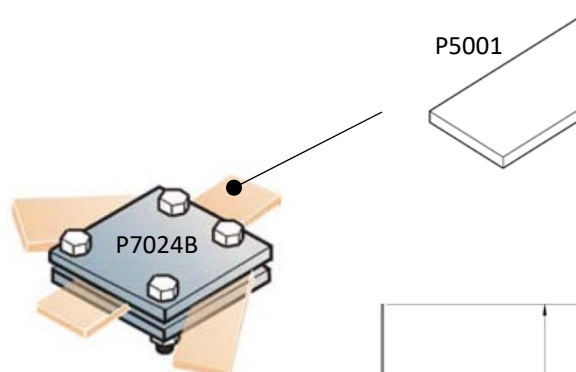
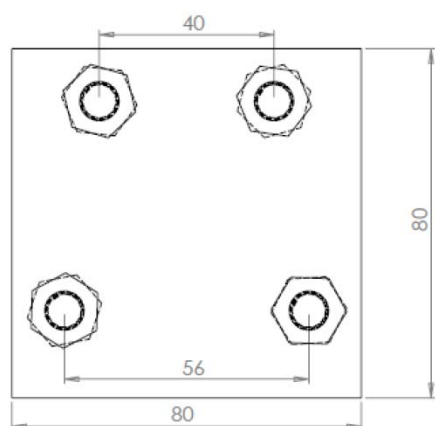
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« Crow Foot » clamp

Characteristics	P7024B
Material	Tinned copper
Weight (kg)	0.520
Application	Clamp for "crow-foot" conductors earthing termination interconnection
Standard	EN 62561-1



Dimensions (mm)



Application

Crow foot earthing termination
(type A1 according to NF C 17 102)

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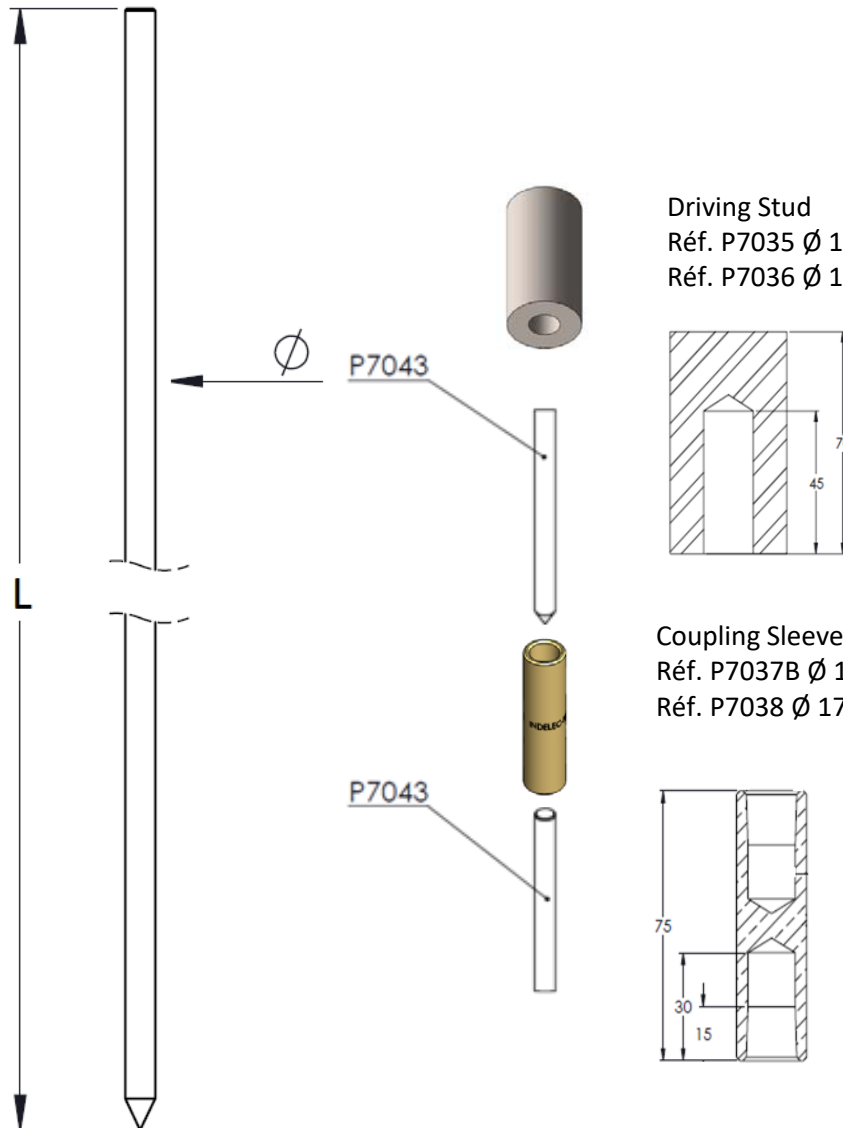


Pointed Copperbound Earth Rod

Characteristics	P7043	P7033
Material	Steel S235JR Coating: Copper 254µm	
Length (mm)	2000	
Diameter (mm)	14.3	17.2
Weight (kg)	2.485	3.765
Standard	EN 62561-2	

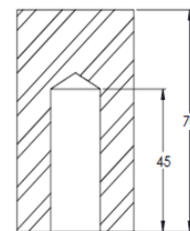


Dimensions (mm)



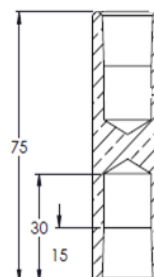
Driving Stud

Réf. P7035 Ø 14,3mm, Weight : 0.200 kg
Réf. P7036 Ø 17,2mm, Weight : 0.300 kg



Coupling Sleeve

Réf. P7037B Ø 14,3mm, Weight: 0.100 kg
Réf. P7038 Ø 17,2mm, Weight : 0,200 kg

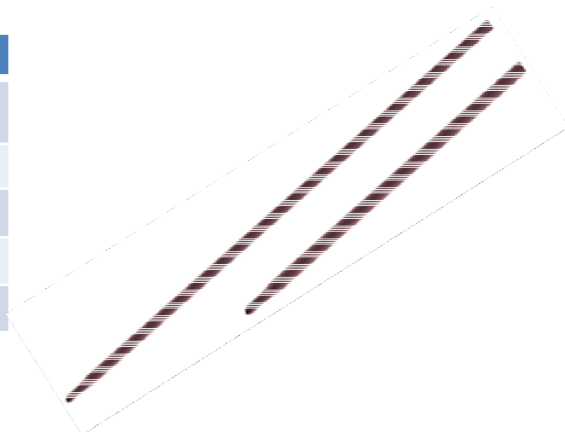


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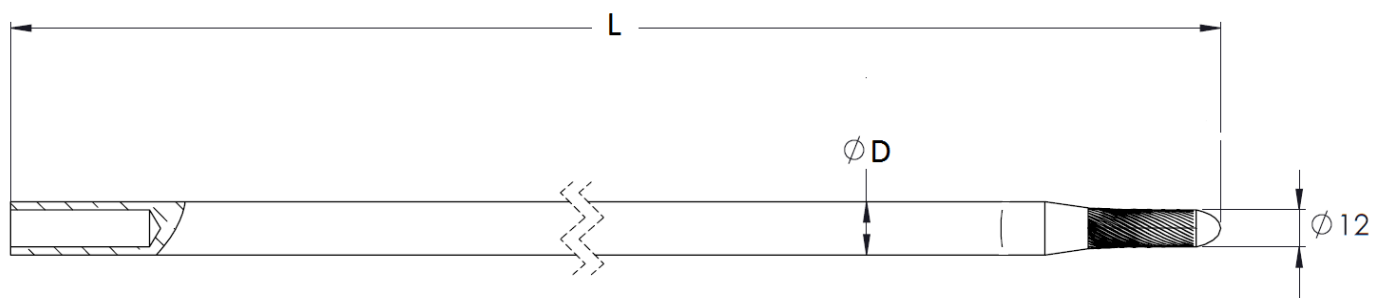


Self Coupling Earth Rods

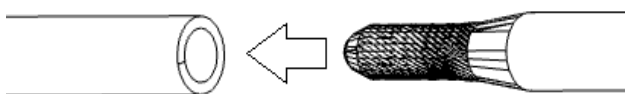
Characteristics	P7040	P7041	P7042
Material	Stainless Steel S235JR Coating: Copper 254µm		
Diameter D (mm)	14.3	14.3	17.2
Length L (mm)	2000	1000	1000
Weight (kg)	2.500	1.250	1.765
Standard	EN 62561-2		



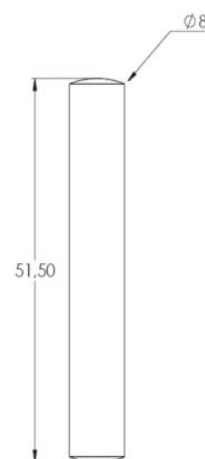
Dimensions (mm)



Coupling detail:



Accessory:
Driving stud
ref P7047
Weight : 0.002 kg

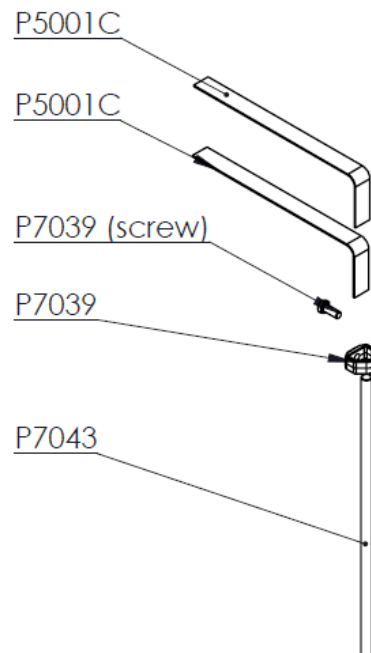
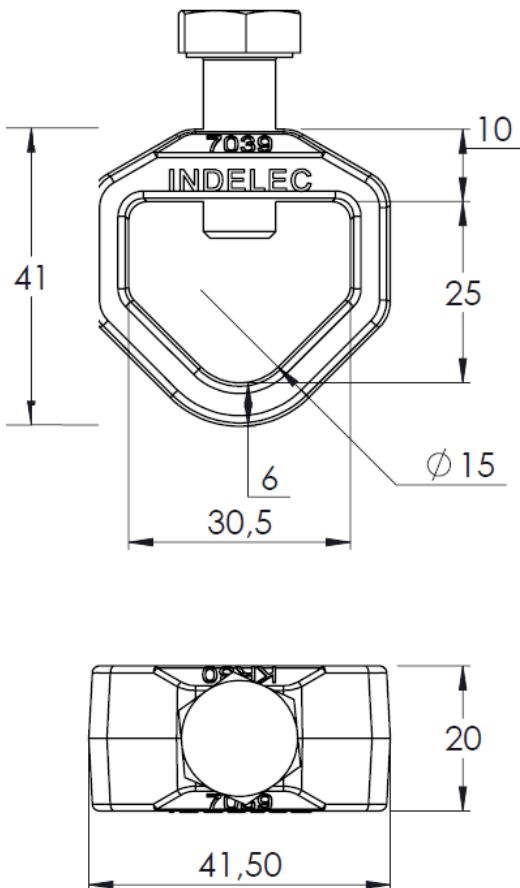


Rod to Conductor Clamp

Characteristics	P7039
Material	Brass
Weight (kg)	0.120
Application	Connection between conductor and earth rod (max 19mm diam.)
Standard	EN 62561-2



Dimensions (mm)



Application

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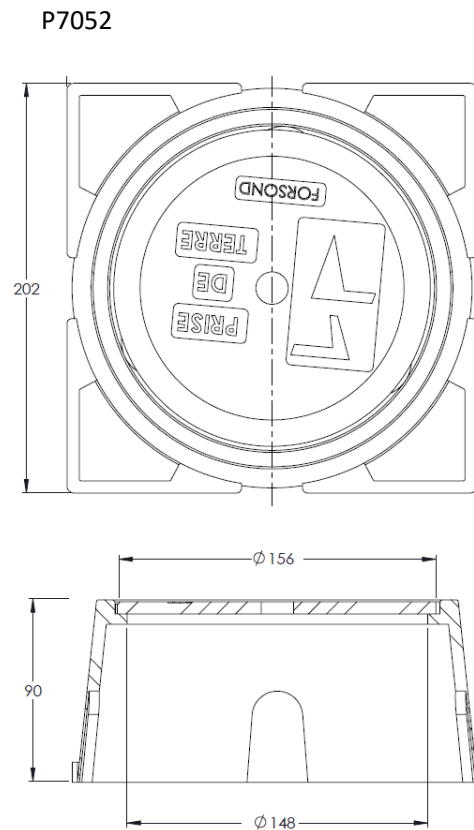
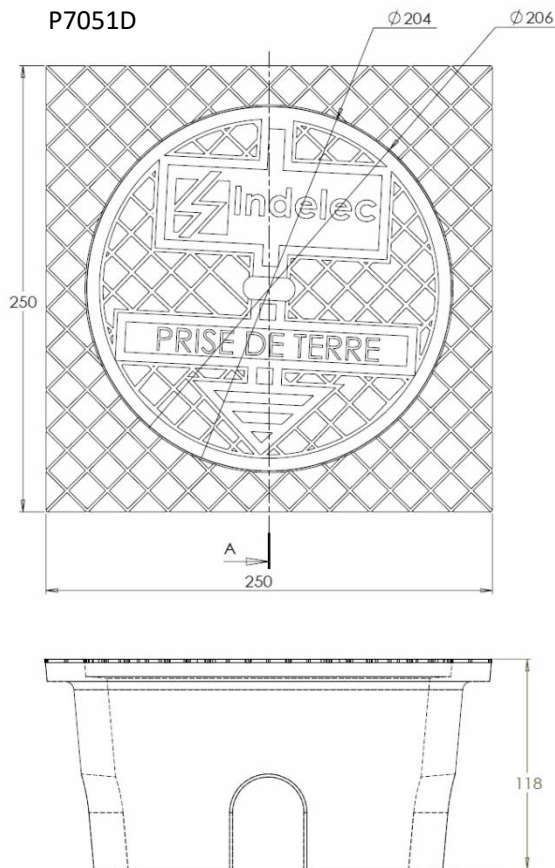
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Inspection Pit

Characteristics	P7051H	P7052
Material	Cast Iron	PVC
Weight (kg)	8.045	0.440
Application	Allows the inspection of buried conductors	
Standard	EN 62561-5	

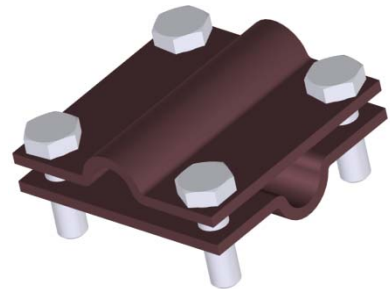


Dimensions (mm)

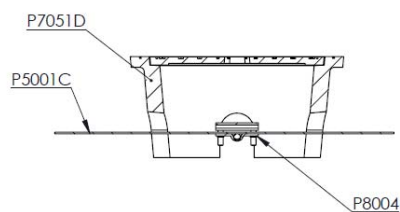
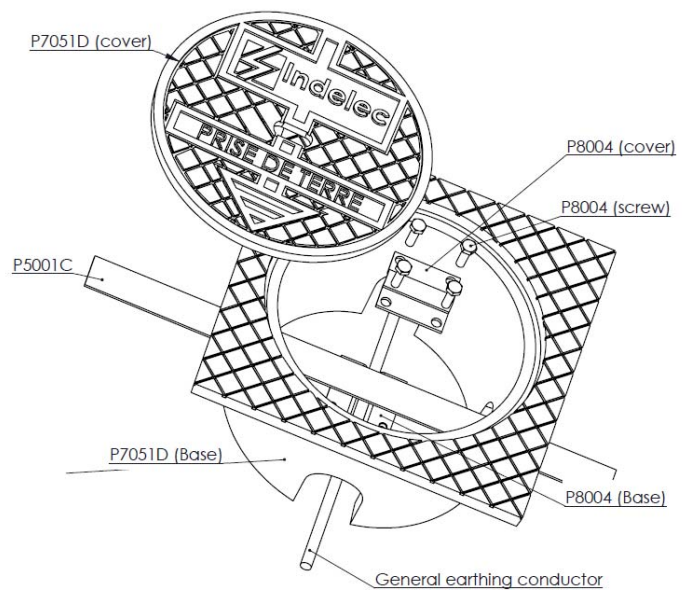
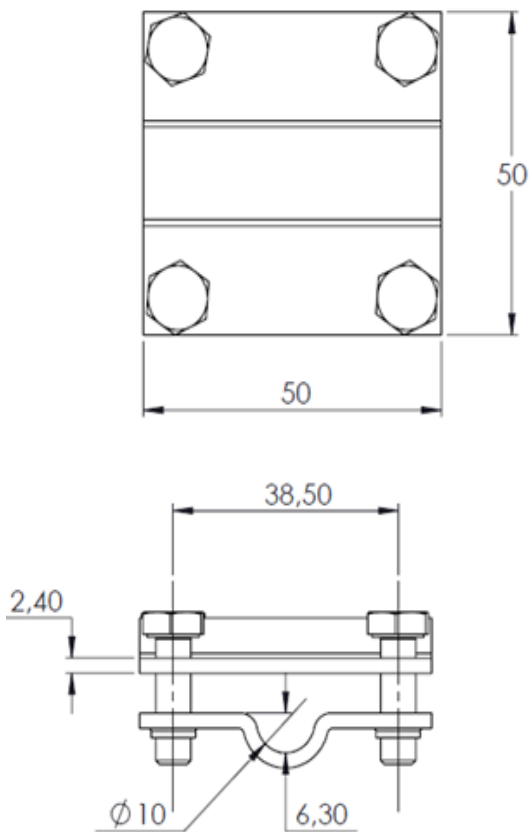


Earth clamp

Characteristics	P8004
Material	Copper
Weight (Kg)	0.130
Application	Used to fix tape (lightning conductor earthing) to copper cable (mains earth).



Dimensions (mm)



Application

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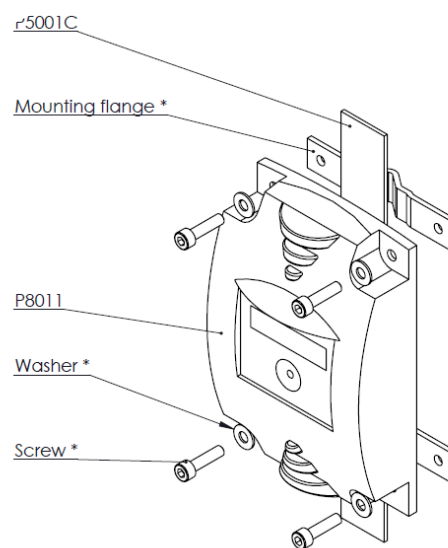
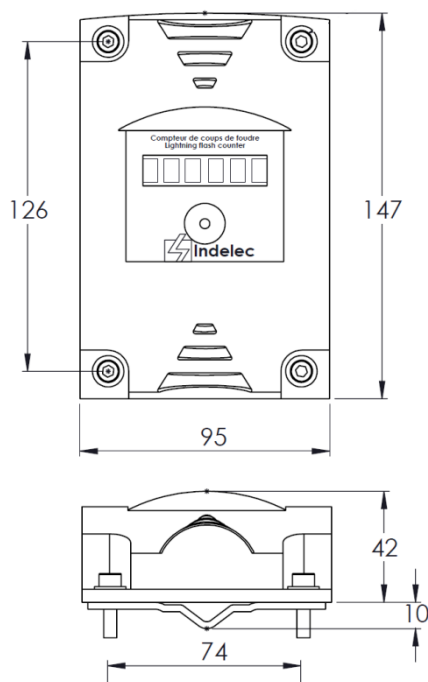
Digital flash lightning counter

Reference		P8011
Characteristics		
Minimal detectable current	I_d	1 kA
Maximal detectable Current	I_{max}	100 kA
Minimum current sensitivity($I_d/3$)	I_{nd}	333 A
Protection Class	IP	67
Net Weight	W	0.700 kg
Operating principles		
Display		Digital
Digits		6
Recording		By induction while lightning current pass through down conductor
On-site testing capabilities		Proprietary tester ref. P8015
Maintenance		Replaceable lithium batteries P8017
Warranty		18 months
Mechanical specifications		
Down conductor fixing		Specific clamp (included)
Certifications		
EN 62561-6 Standard		Attestation N°IND-62561-6-08112016



Lightning Counter Tester
Ref P8015

Dimensions (mm)



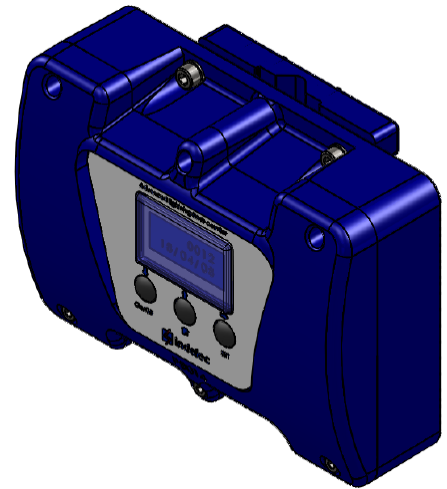
Application

DOC225a.VEN-Rev1

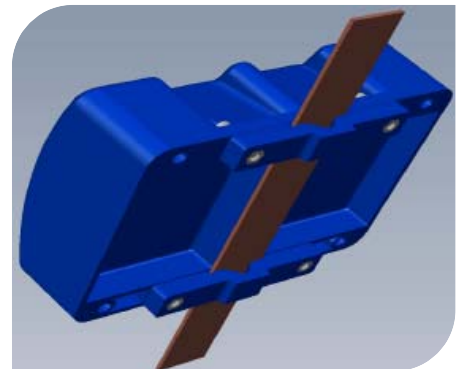


Advanced Lightning Flash Counter

Reference	P 8016	
Characteristics		
Minimal detectable current	I_d	1 kA
Maximal detectable Current	I_{max}	100 kA
Minimum current sensitivity($i_d/3$)	I_{nd}	333 A
Protection Class	IP	67
Operating temperature range	T°	-20 °C +75 °C
Net Weight	W	0.890 kg
Operating principles		
Display	Digital	
Digital characters	16	
Features	Date of event dd/mm/yy Time of event hh/mm Peak Current (+ / - 10% accuracy) Polarity of current	
On-site testing capabilities	Proprietary tester P8015	
Maintenance	Replaceable lithium batteries P80170	
Warranty	18 months	
Mechanical specifications		
Down conductor fixing	Specific clamp (included)	
Certifications		
Standard	EN 62561-6	

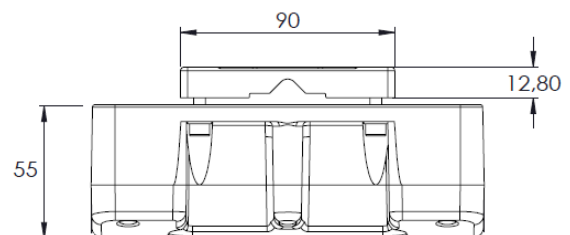
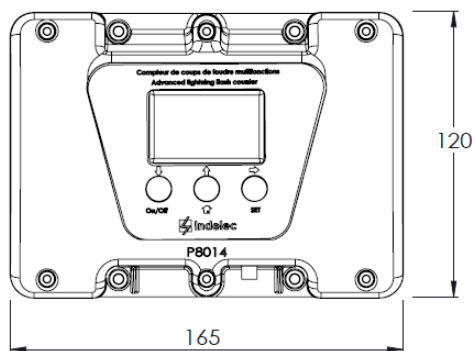


Lightning Flash Counter Tester
Ref P8015



Application

Dimensions (mm)



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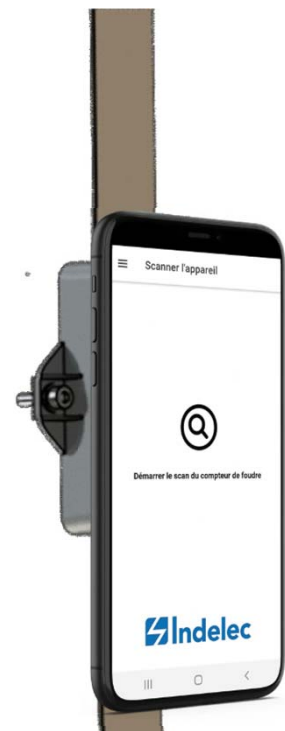
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RFID Lightning Flash Counter – Type I

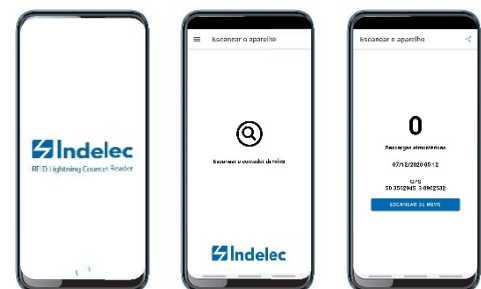
Reference	P8050	
Characteristics		
Minimal detectable current (10/350µs)	$I_{imp\ min}$	2 kA
Maximal detectable current (10/350µs)	$I_{imp\ maxi}$	100 kA
Minimum current sensitivity (0.5 x $I_{imp\ mini}$)	I_{mcs}	1 kA
Protection Class	IP	43
Net Weight	W	0.200 kg
Temperature Range	T	- 20°C ≤ T ≤ +85°C
Humidity	RH	0% ≤ RH ≤ 100%
Maximal altitude (Height Above Sea Level)	HASL	≤ 4000 m
Operating principles		
RFID Lightning Counter Reader App	 RFID Lightning Counter Reader	
Digits	2	
Recording	By induction while lightning current passes through down conductor	
Maintenance	Not required (no battery)	
Warranty	18 months	
Installation specifications		
Down conductor fixing	Clamp (included)	
Standards		
RFID Lightning Flash Counter	Tested according to NF EN 62 561 – 6 Ed 2	



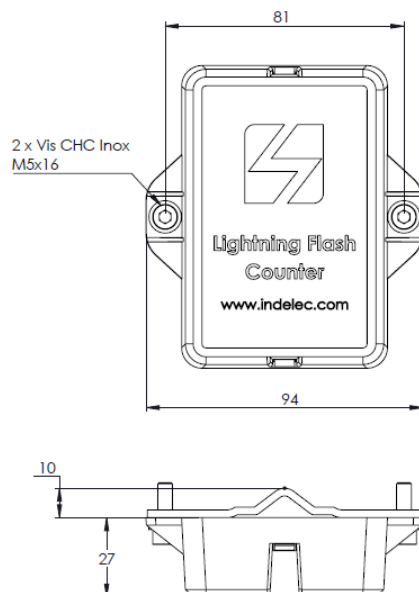
RFID Lightning Flash Counter
Ref P8050



Application



Dimensions (mm)



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StorMonitor – Electromagnetic Storm Detector

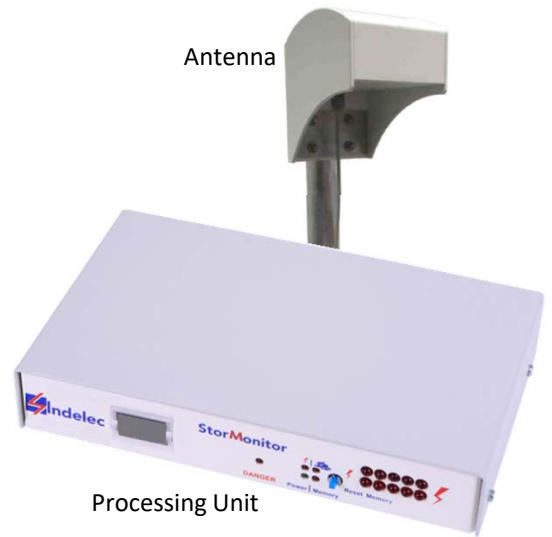
The StorMonitor is a electromagnetic type thunderstorm detector. It registers storm activity and lightning discharges within a 15 km radius from its antenna.

The StorMonitor provides alert information to the site operation manager :

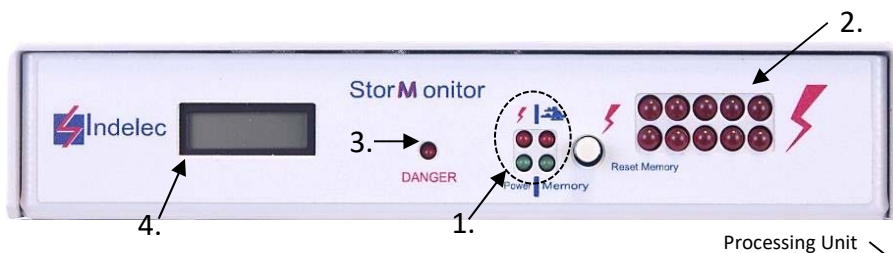
- triggering relevant alarms of nearby or approaching storms.
- registering storm events.

On average, these alarms provide a lightning strike warning time of 15-30 minutes .

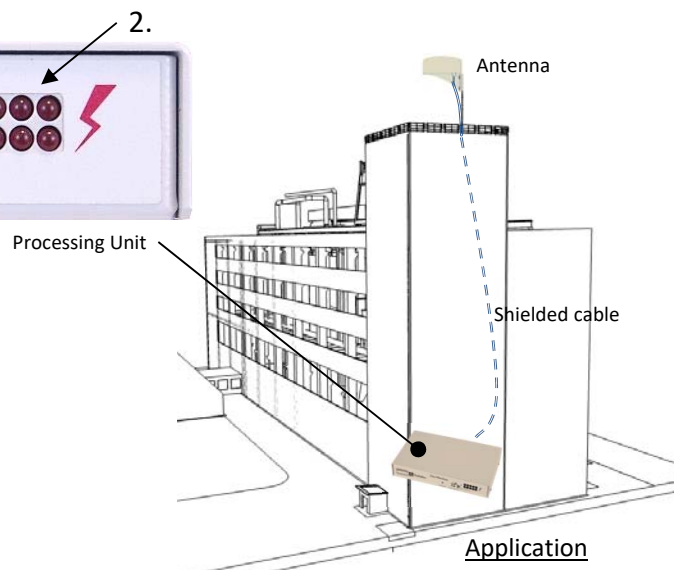
During a thunderstorm, lightning strikes radiate electromagnetic waves that are detected by the StorMonitor antenna; signals are transmitted to the processing unit which delivers real-time lightning strikes intensity and thunderstorm activity.



Characteristics	P90040	
	Antenna	Processing unit
Dimensions (H x L x P)	188 x 168.5 x 123 (mm)	42 x 195 x 127 (mm)
Weight	0.720 kg	0.760 kg
Protection class	IP 55	IP 30
Connection (included)	Shielded cable (15m) + RJ45 connector	24 VDC power supply unit
Consumption	/	50 mA
Maximum detection radius	15 km	/
Operating temperature	-20°C à +60°C	
Standards	IEC 62793, CEM 2014/30/UE	



1. Storm activity and memory
2. Real-time lightning intensity
3. Danger storm alarm + internal buzzer
4. Storm alarms counter

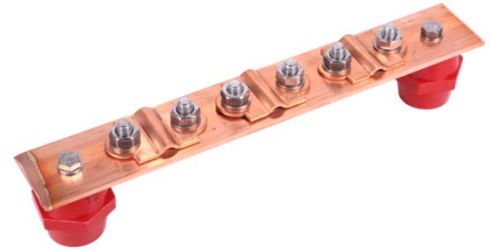


DOC231a.VEN-Rev1

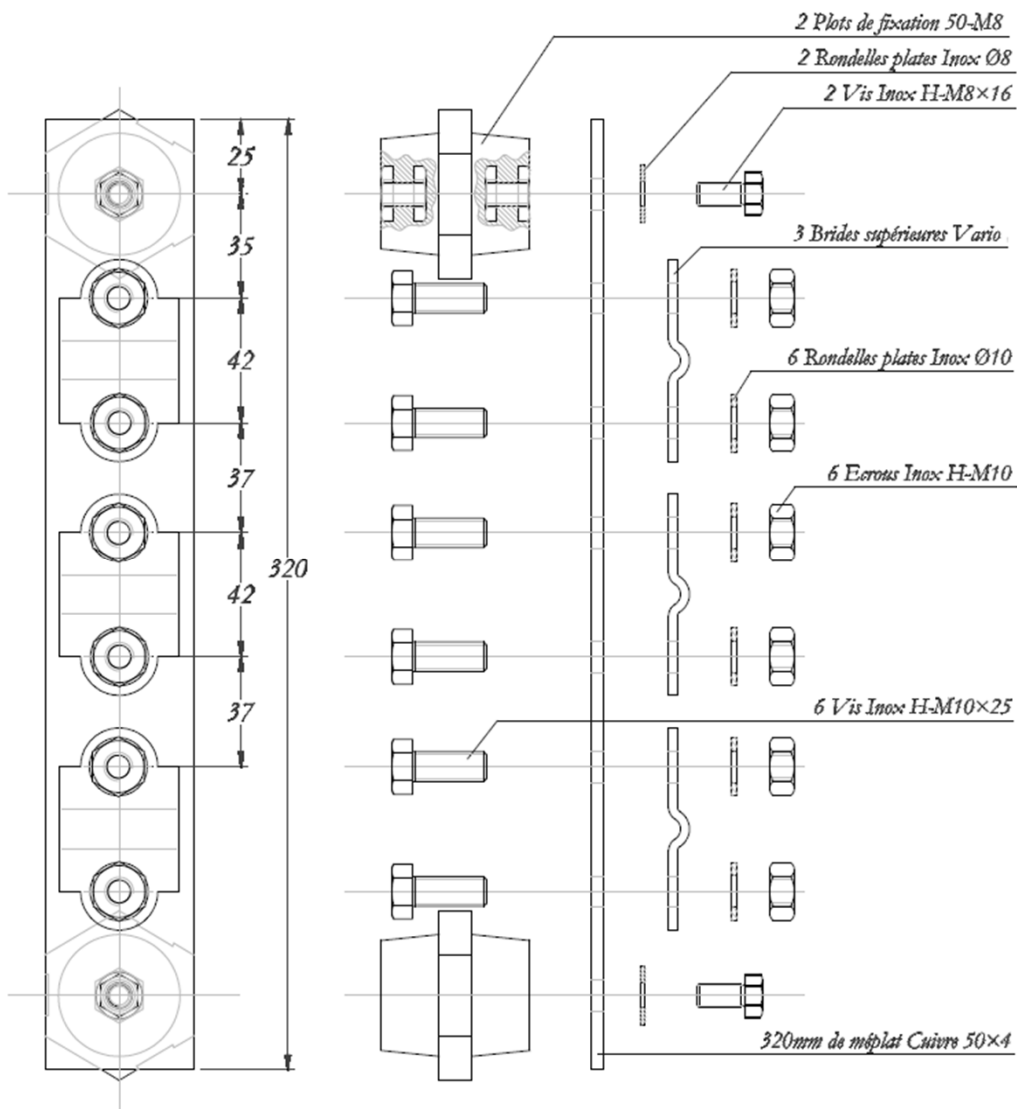


Copper Earth Bar – 3 way

Characteristics	P7053
Material	Copper
Weight(Kg)	1.25
Application	The earth bar is used to connect different earth conductors or metallic masses together. There are 6 welded bolts (M10) which allow 6 conductors to be connected by lugs (not supplied). There are also 3 back plates allowing 3 separate 30x2 mm tape conductor to be connected without the need for drilling.



Dimensions (mm)



DOC223a.VEN-Rev0



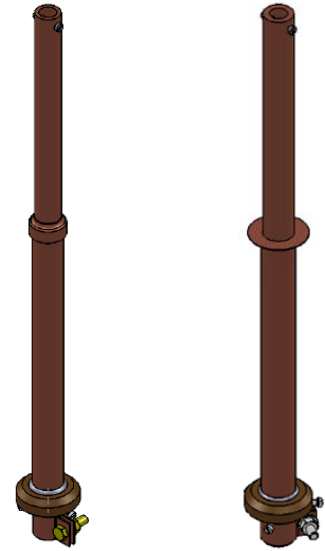
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Heritage Building Copper Adapting Sleeve

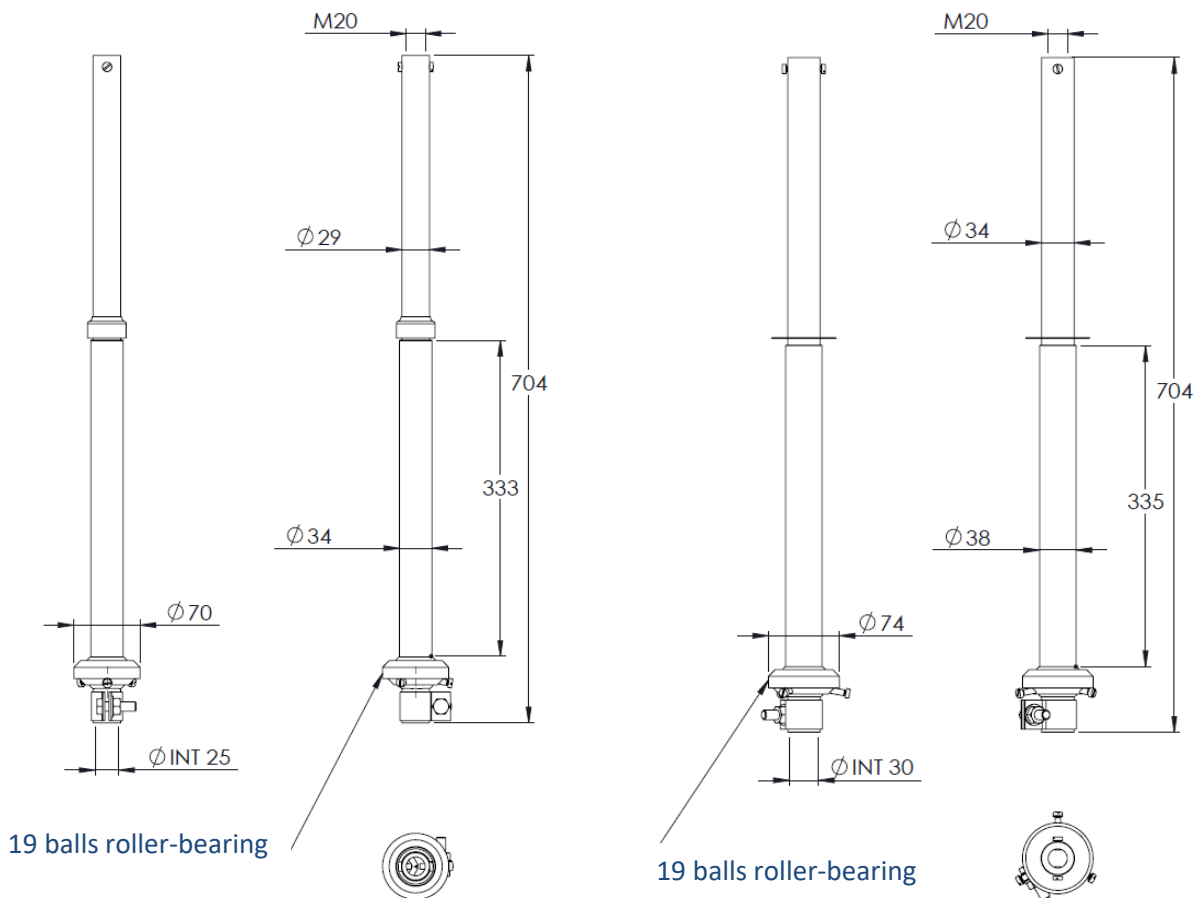
Characteristics	P9021B	P9022B
Material	Copper	Copper
Weight (kg)	2.000	2.150
Internal diameter (mm)	25	30
Application	Bell Tower revamping Used to fix a M20 Lighting conductor on the upper side Lower base fixed on a weathervane Down conductors clamp is included.	



P9021B

P9022B

Dimensions (mm)



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