SAMKA ELECTRICALS & FACILITY PVT. LTD

GOVT. LICENCE ELECTRICAL CONTRACTOR

SEFPL

ISO 9001:2015 CERTIFIED COMPANY

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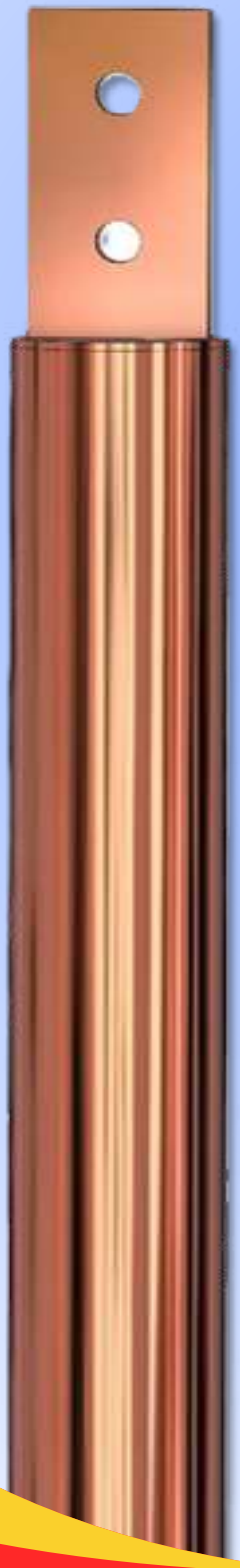
SAMKA ELECTRICALS & FACILITY PVT. LTD.
A { GOVT. LICENCE ELECTRICAL CONTRACTOR } & specialized in {CHEMICAL EARTHING MANUFACTURER } & All Kind of Electrical SITC Works at All Over India .

www.sefpl.co.in

Copper Bonded Strip in Pipe Electrode & Copper Bonded Pipe in Pipe Electrode

A CopperBonded Strip in Pipe Electrode&Copper Bonded Pipe inPipeElectrodeismadefrom a steel core coated with a layer of high-conductivity copper. This combination provides excellent corrosion resistance and enhanced electrical conductivity. Copper Coating ranges from 15 to 254 micron's (µm).

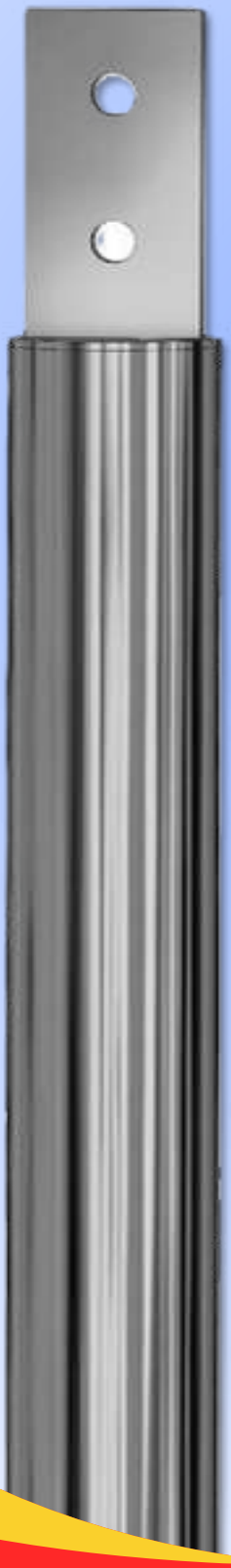


Copper Bonded Strip in Pipe Electrode	
Pipe Dia (mm)	Total Length (mm)
48	1000
48	1200
48	1500
48	2000
48	3000
76	1000
76	1200
76	1500
76	2000
76	3000
88	1000
88	1200
88	1500
88	2000
88	3000

Copper Pipe in Pipe Electrode		
Pipe Dia	Inner Pipe (mm)	Total Length (mm)
48	25	1000
48	25	1200
48	25	1500
48	25	2000
48	25	3000
76	48	1000
76	48	1200
76	48	1500
76	48	2000
76	48	3000
88	60	1000
88	60	1200
88	60	1500
88	60	2000
88	60	3000

GI Strip in Pipe Electrode& GI Pipe in Pipe Electrode

A GI Pipe Electrode is a type of earthing electrode made from iron pipe that has undergone electroplating. This process enhances the pipe's corrosion resistance and durability by plating with zinc. GI Coating ranges from 20 to 50 micron's (µm).

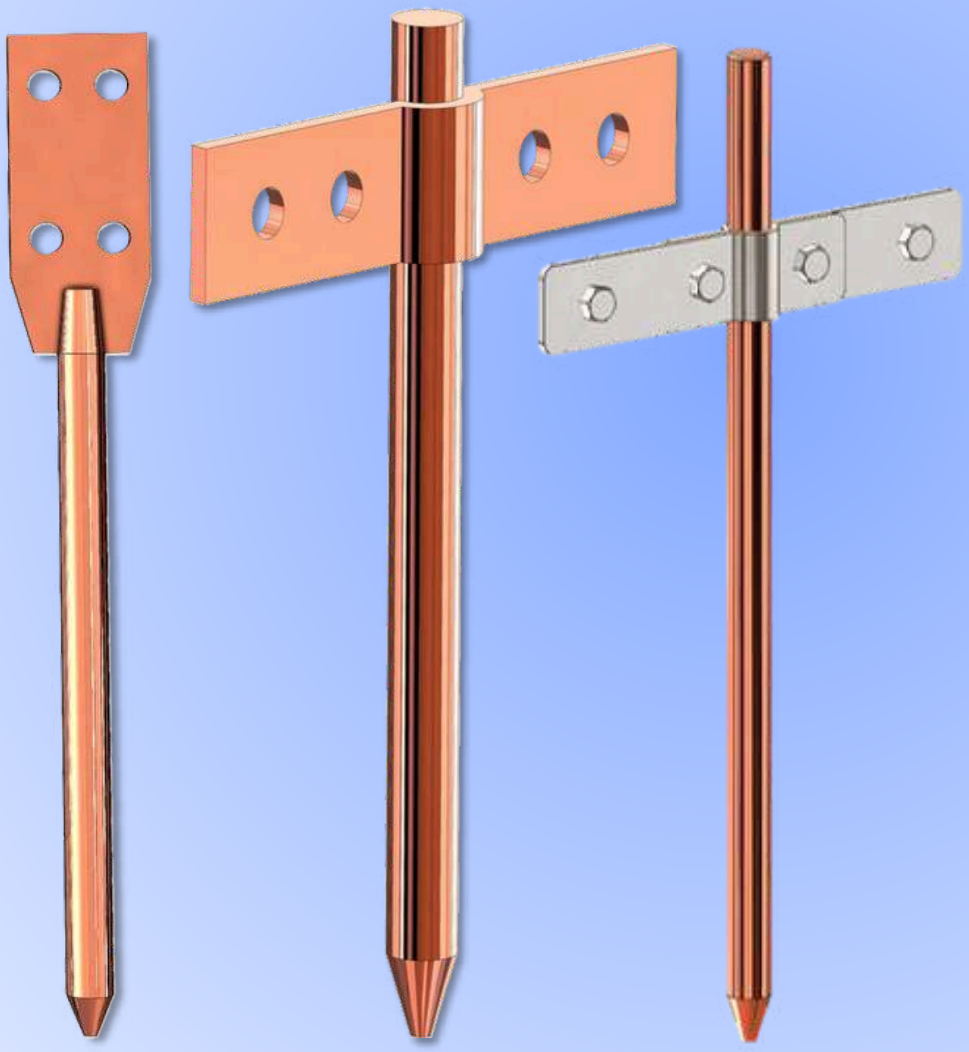


GI Strip in Pipe Electrode	
Pipe Dia (mm)	Total Length (mm)
48	1000
48	1200
48	1500
48	2000
48	3000
76	1000
76	1200
76	1500
76	2000
76	3000
88	1000
88	1200
88	1500
88	2000
88	3000

GI Pipe in Pipe Electrode		
Pipe Dia (mm)	Inner Pipe (mm)	Total Length (mm)
48	25	1000
48	25	1200
48	25	1500
48	25	2000
48	25	3000
76	48	1000
76	48	1200
76	48	1500
76	48	2000
76	48	3000
88	60	1000
88	60	1200
88	60	1500
88	60	2000
88	60	3000

Copper Bonded Earth Rod

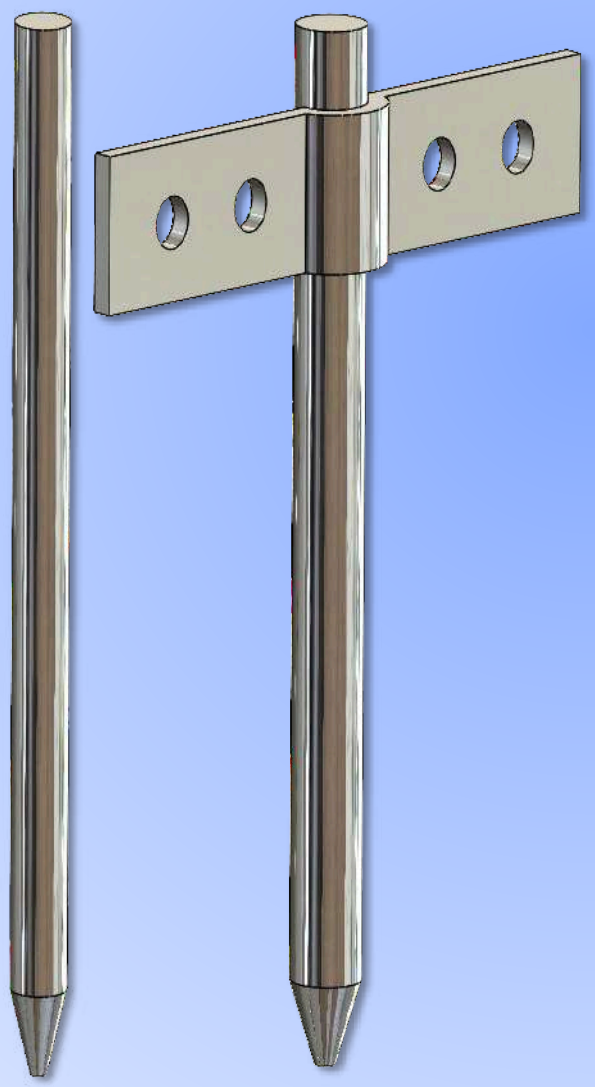
Copper BondedEarth Rods withWelded Clamphave acoreofhightensilelow carbon steel with each rod madeby molecularlybonding 99.9% Pure ElectrolyticCopper. They are easy to install and directly can be connected with conductor. Copper Coating ranges from 15 to 254 micron's (µm).



Copper Bonded Earth Rod	
Rod Dia (mm)	Total Length (mm)
14.2	1000
14.2	2000
14.2	3000
16	1000
16	2000
16	3000
17.2	1000
17.2	2000
17.2	3000
20	1000
20	2000
20	3000
25	1000
25	2000
25	3000
32	1000
32	2000
32	3000
38	1000
38	2000
38	3000
40	1000
40	2000
40	3000

HDG GI Rod

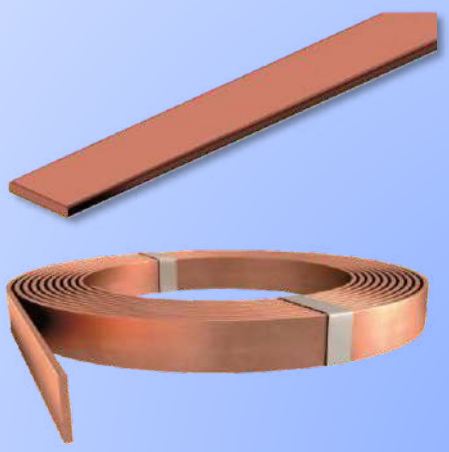
An HDG (Hot Dip Galvanized) rod isacorrosion-resistant grounding electrode made from galvanized iron. The rod undergoes a hot-dip galvanization process, wherein it is immersed in molten zinc to form a protective zinc coating. GI Coating ranges from 86 to 100 micron's (µm).



HDG GI Rod	
Rod Dia (mm)	Total Length (mm)
12	2000
12	2400
12	3000
14	2000
14	2400
14	3000
16	2000
16	2400
16	3000
17	2000
17	2400
17	3000
19	2000
19	2400
19	3000
25	2000
25	2400
25	3000
32	2000
32	2400
32	3000
38	2000
38	2400
38	3000
40	2000
40	2400
40	3000

Copper Strip/Flat

Copper Strips (Flats) are high-conductivityconductorswidelyusedinearthing, bonding, and electrical distribution systems. Made from pure electrolytic copper, these strips offer excellent electrical and thermal conductivity, along with high resistance to corrosion. Their flat design ensures easy installation and effective performance in both commercial and industrial applications, including lightning protection and grounding systems.



Copper Strip / Flat	
Width (mm)	19, 25, 32, 40, 50, 63, 75, & 100
Thickness (mm)	3, 5, 6, 8, 10 & 12
Standard	IS-IEC 62305
Impulse	100 kA 10/350 µs
Current Grade	High Conductivity Electrolytic (ETP) & Commercial Grade

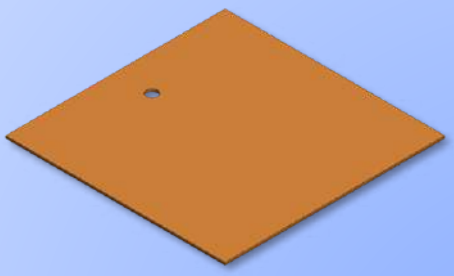
GI & Hot Dip Strip/Flat

GI Strips are high-quality galvanized iron conductors widely used for electrical earthing applications. Manufactured from mild steel and hot-dip galvanized for enhanced corrosion resistance, these strips provide excellent conductivity and mechanical strength. They are ideal for safe dissipation of fault and lightning currents in grounding systems.

GI & HDG Strip / Flat	
Width (mm)	20, 25, 30, 32, 40, 50, 63, 75, & 100
Thickness (mm)	3, 5, 6, 8, 10 & 12
Standard	IS 2062
Coating	Electroplating Zinc / Hot Dip
Microns	15 – 20 micron's(µm) / 86+ (µm)
Length	5 – 6 Mtrs

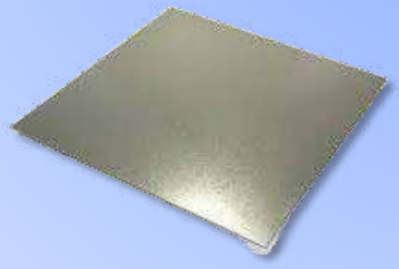
Earth Plate

Earth Plates are essential componentsinearthingandlightningprotection systems, offering a low-resistance path to safely dissipate fault and lightning currents into the ground. Available in Copper Bonded, Hot Dip Galvanized (HDG), and Cast Iron (CI) materials, these plates provide reliable performance in various soil and environmental conditions. Each type offers specific benefits—Copper Bonded for superior conductivity, HDG for excellent corrosion resistance, and CI for robust mechanical strength.



Copper Earth Plate	
Size (mm)	150x 150m m
	450x 450m m
Thickness (mm)	1, 1.5, 3, 5 & 6 mm
Grade	High Conductivity Electrolytic (ETP) & Commercial Grade

Copper Bonded Earth Plate	
Size	150x 150 mm
	300x 300 mm
	450x 450 mm
	600x 600 mm
Thickness	1, 3 & 6 mm



HDG Earth Plate	
Size	300x300mm
	600x 600mm
Thickness	3, 5 & 6mm

CI Earth Plate	
Size	11" x 11"
	17" x 17"
	23" x 23"
Finish	Silver

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Ground Enhancing Compound

A ground enhancingcompoundis aproductwhich canconsistofvariousmaterialsthat help to retain moisture levels in the soil around earthed electrodes. It is environmentally friendly, economical, does not contain any hazardous chemicals and will not need to be recharged in the future, saving you time and money.

Ground Enhancing Compound	
State	Dry
Colour	Greyish Black
Form	Powder
Weight	15 kgs 25 kgs

Copper Wire

Copper Wire is a highly conductive and corrosion-resistantconductorused in earthing, bonding, and lightning protection systems. Its flexibility and durability make it ideal for various industrial and electrical grounding applications.

Copper Wire	
Material	Copper High Conductivity
Grade	Electrolytic (ETP) & Commercial Grade
SWG	6, 8, 10, 12, 14, 16, 18 & 20
Finish	Bright Copper

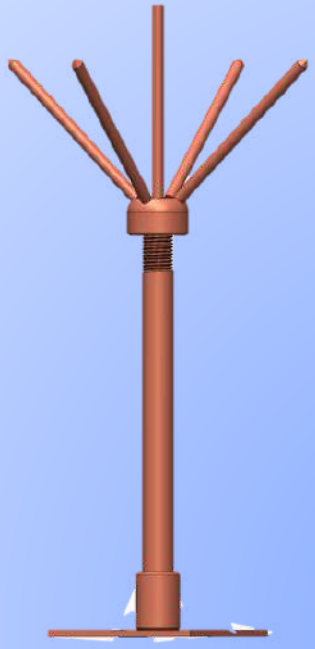
GI Wire

GI Wire is a strong, corrosion-resistant galvanized iron conductor used in earthing and lightning protection systems. It offers reliable performance, durability, and is ideal for grounding in industrial, commercial, and residential setups.

GI Wire	
Material	Galvanized Iron 6, 8, 10,
SWG	12, 14, 16,18 &20
Coating	50 – 120 GSM Hot DIP Galvanized& Electroplating
Finish	Silver

Copper Bonded Lightning Arrester

A Copper BondedLightningArrestercomprises a coppercore coatedonto a steelcore for conductivity and strength. It includes hardware for installation and grounding, ensuring safe dissipation of lightning current and protection of electrical systems from damage.



Copper Bonded Lightning Arrester			
Ball Dia (mm)	Rod Length (mm)	Rod OD (mm)	No. of Spikes
28	1000	14	5
28	1200	14	5
28	2000	14	5
28	3000	14	5

Pure Copper Lightning Arrester

A Copper Lightning Spike Arrester mounted on top of a building and electrically connected to the ground through a wire or earthing copper strips, to protect the building in the event of a lightning.

Pure Copper Lightning Arrester			
Ball Dia (mm)	Pipe Length (mm)	Pipe OD (mm)	No. of Spikes
42	1000	25	5
62	1000	25	5
85	1000	25	5
100	1000	25	5
150	1000	25	5

ESE Lightning Arrester

Early Streamer Emission (ESE) LightningArrestersprovideadvancedprotection byemitting a triggering impulse to capture lightning strikes earlier than conventional systems. Designed for wide-area coverage, they offer enhanced safety for buildings, structures, and open spaces. Made from corrosion-resistant materials, ESE arresters ensure long-lasting and reliable performance in all weather conditions

Protection Level				
Protection Radius (meters)				
Height (m)	Level 1	Level 2	Level 3	Level 4
2	32	34	39	43
3	47	52	58	64
4	63	69	78	86
5	79	86	97	107
7	79	87	98	108
9	79	88	99	109
10	79	88	99	109

ESE Air Terminal	
Type of Terminal	Electroatmospheric
Standard	NFC 17-102/2011
Withstand	10/350µs – 100 & 200kA

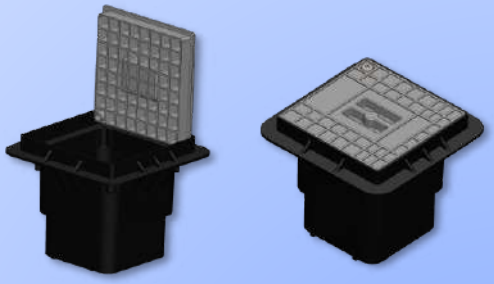
HDG Mast & SS Mast

ESE active air terminal are providedalongwith complete mountingsolutionincluding (GI) or Stainless Steel Pipe with base plate.

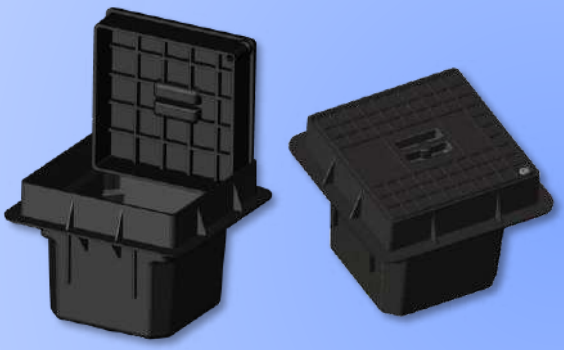
HDG & SS Mast (SS 304)	
Elevation Height	1 Mtrs to 9 Mtrs
Dia	48 to 100mm
Material	MS HDG & SS 304
Wind Speed	150 km/h
Part No.	VSSM48Z

Square Earth Pit Chamber

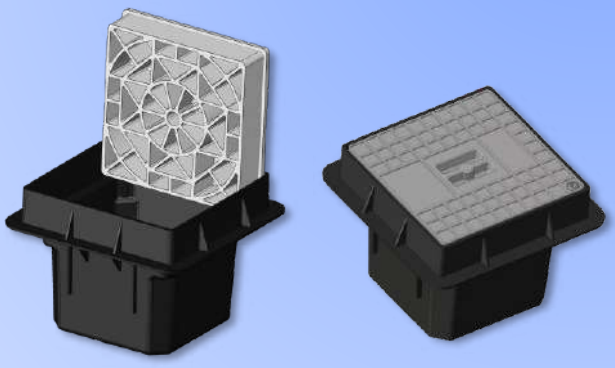
Square Earth Pit Chambersarerobustenclosuresusedtosafelyhouseandprotect earth electrodes and connections. Made from high-strength materials like concrete or polypropylene, they ensure easy access for inspection and maintenance while providing long-term durability in all weather conditions. .



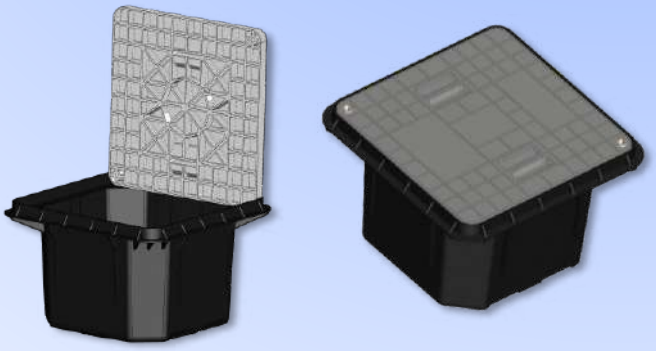
Square Earth Pit Chamber Cover	
Length	245 mm
Width	245 mm
Height	195 mm
Material	PP
Load Capacity	2 Tons
Standard	IEC 62561:5



Square Earth Pit Chamber Cover	
Length	310 mm
Width	310 mm
Height	225 mm
Material	PP
Load Capacity	3 Tons
Standard	IEC 62561:5



Square Earth Pit Chamber Cover	
Length	310 mm
Width	310 mm
Height	225 mm
Material	PP
Load Capacity	5 Tons
Standard	IEC 62561:5

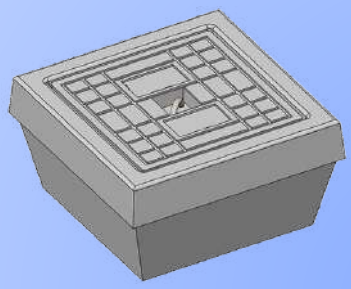


Square Earth Pit Chamber Cover	
Length	500 mm
Width	500 mm
Height	315 mm
Material	PP
Load Capacity	7 Tons
Standard	IEC 62561:5

Chamber Cover

Chamber Covers are durablelidsdesignedto protectearth pitchambers from external damage, debris, and water ingress. Made from materials like cast iron, concrete, or heavy-duty plastic, they ensure safety, easy access, and long-lasting performance in earthing and lightning protection systems.

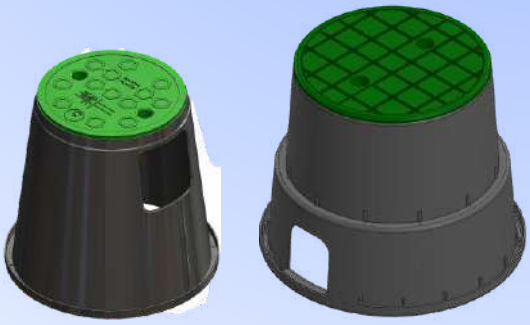
FRP Cover	
Length	300/450mm
Width	300/450 mm
Material	FRP
Load Capacity	3 & 5 Tons



Concrete Chamber Cover	
Length	300 mm
Width	300 mm
Height	170 mm
Material	Concrete
Load Capacity	5 Tons
Standard	IEC 62561:5

Concrete Chamber Cover	
Length	450 mm
Width	450 mm
Height	400 mm
Material	Concrete
Load Capacity	10 & 20 Tons
Standard	IEC 62561:5

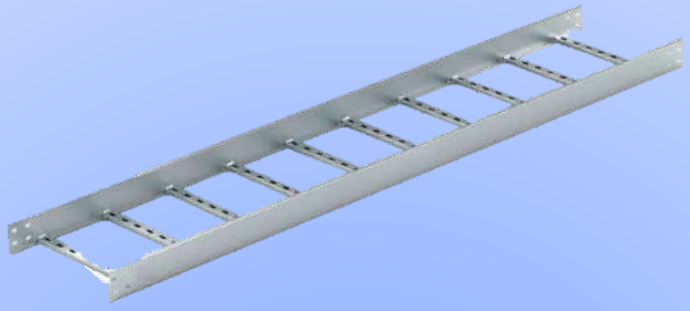
MS & CI Cover	
Length	300 / 450 mm
Width	300 / 450 mm
Material	MS & CI Cover
Load Capacity	5 & 10 Tons



PP Round Earth Pit Chamber Cover	
Top Diameter	175/245 mm
Height	240/265 mm
Bottom Diameter	250/330 mm
Material	PP
Load Capacity	3 Tons
Standard	IEC 62561:5

Ladder Cable Tray

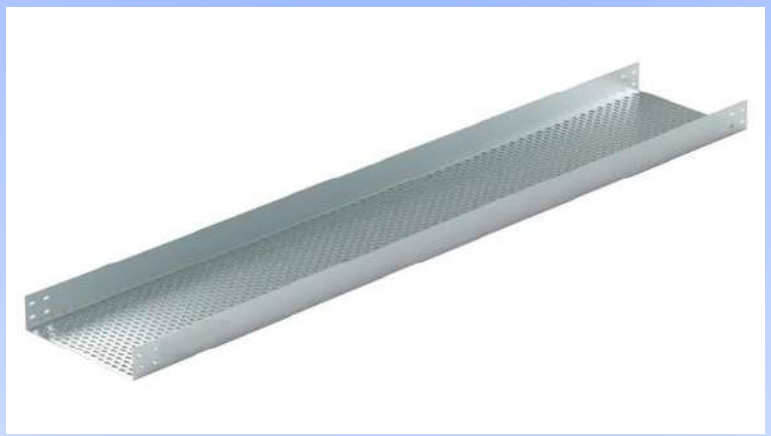
A ladder cable tray is a type of cablemanagementsystemconsisting of two side rails connected by rungs, designed to support and route large volumes of power or data cables in industrial and commercial settings. It offers excellent ventilation, easy cable access, and high load-bearing capacity



Ladder Cable Tray					
Width (mm)	Height (mm)	Thickness (mm)		Length (mm)	Finish
100 to 1000 mm	50 mm	1.6 mm	16 SWG	2500	GP & HDG
	75 mm	2 mm	14 SWG		
	100 mm	2.5 mm	12 SWG		

Perforated Cable Tray

A perforated cable tray is a ventilated cable management system designed for light to medium-duty power and data cabling. Its perforated base allows for excellent air circulation, reducing heat buildup, while providing easy access for cable installation, routing, and maintenance in industrial and commercial settings.



Perforated Cable Tray					
Width (mm)	Height (mm)	Thickness (mm)		Length (mm)	Finish
100 to 1000 mm	50 mm	1.6 mm	16 SWG	2500	GP & HDG
	75 mm	2 mm	14 SWG		
	100 mm	2.5 mm	12 SWG		

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Aviation Warning Lights

The high-visibility aviationwarninglights aredesigned tomarktallstructures like towers, buildings, and chimneys to alert aircraft during low visibility. Built with durable materials and energy-efficient LEDs, they offer long-lasting performance, low maintenance, and easy installation for reliable safety across various sectors

Single Low Intensity Aviation Obstruction Light	
Type	Ultra Bright
LED Light Colour	Red
Power Consumption	<2W – Type A <5 – Type B
IP Rating	65
Operating Voltage	90 - 270 V AC 24 - 60 V DC
Weight	1.3 Kgs

Dual Low Intensity Aviation Obstruction Light	
Type	Ultra Bright
LED Light Colour	Red
Power Consumption	<5 – Type B
Day Night Control	Auto On/Off - In Built Photo sensor
Peak Intensity	>32 cd
IP Rating	65
Type as per ICAO	Type B

Single Solar LED Aviation Obstruction Light	
Type	5mm High Power LED
LED Light Colour	Red
Power Consumption	<2W
IP Rating	65
Solar Panel	8W
Weight	5.6 Kgs

Dual Solar LED Aviation Obstruction Light	
Type	5mm High Power LED
LED Light Colour	RED
Power Consumption	<3W
IP Rating	65
Solar Panel	8W
Weight	8.5 Kgs

Medium Intensity Aviation Obstruction Light (TYPE-B)	
Type	LED (Flashing)
LED Light Colour	Red
Intensity	2000 cd ±
Power Consumption	25%
Flashing Frequency	8W 20 to 60 fpm
IP Rating	65
Life	1,00,000 Hrs.
Type as per ICAO	Type B

Medium Intensity Aviation Obstruction Light (TYPE-A)	
Type	LED (Flashing)
LED Light Colour	White
Intensity	Day Time 20000 cd Night Time 2000 cd
Power Consumption	8W
Flashing Frequency	20 to 60 fpm
IP Rating	65
Life	1,00,000 Hrs.
Type as per ICAO	Type A

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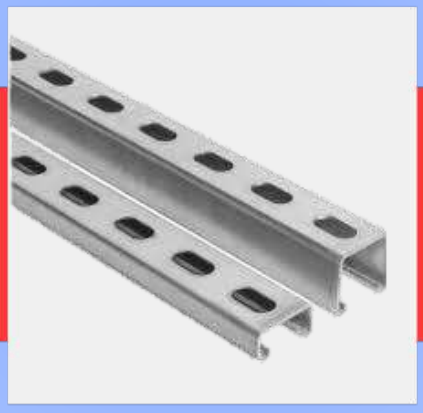
GUV Clamp

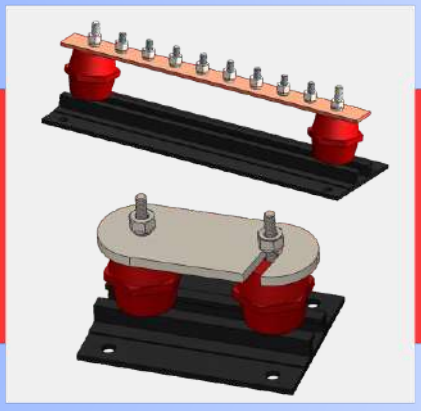
GI Funnel Pipe

G Clamp

Z Channel



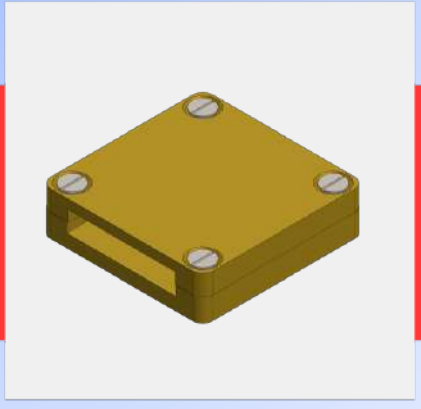
C Channel



Disconnecting Link

Strip Insulator

PVC Heat Shrinkable Sleeves



Square Tape Clamp

SEFPL

SAMKA ELECTRICALS & FACILITY PVT. LTD

Our services

- Earthing Testing
- G.I. Earthing Electrode
- Copper Earthing Rod
- Copper Bonded Electrode
- Conventional Lighting Arrester
- Earthpit Cover
- ESE Type lighting Arrester
- Specialized and Modernize Technology
- Uniform Thickness Superior Conductivity
- Paramount Solution for Earthing
- Complete Protection your System
- Longer Electrode Life
- Superior Compressive Strength
- Earthing Audit

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