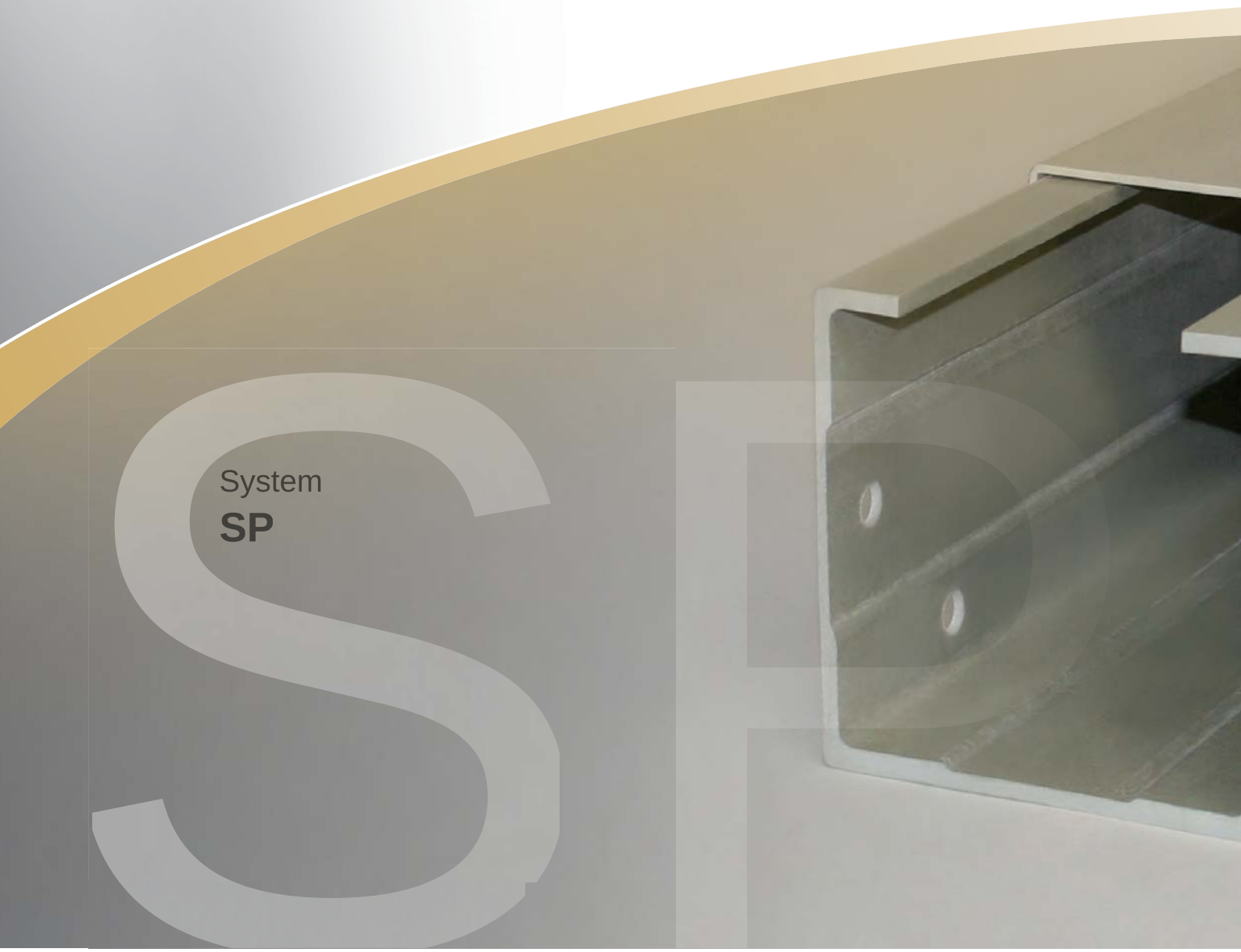
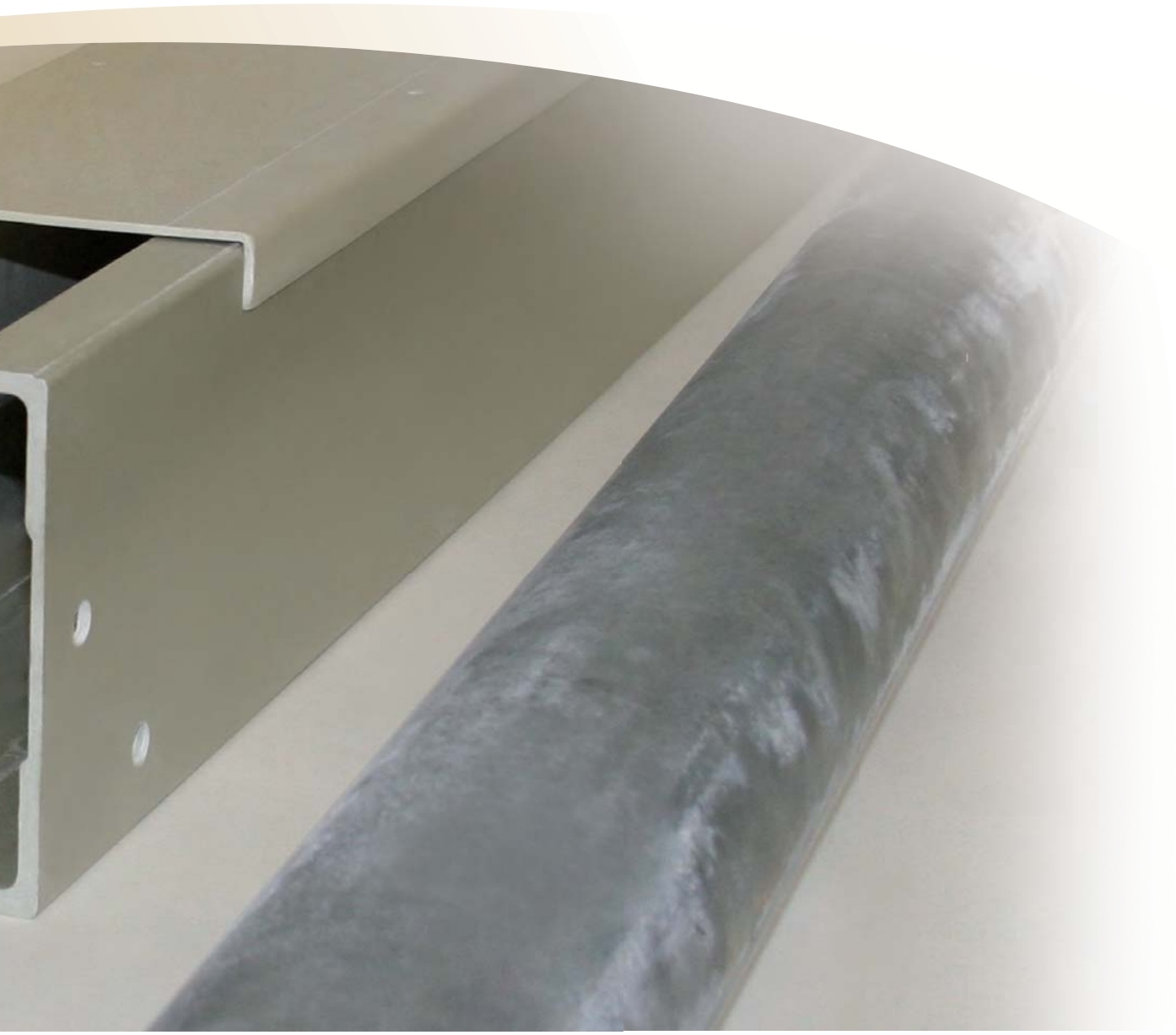


System
SP

Self standing cable troughing system 150

Self standing cable troughing system for railways



The GRP EBO Systems cable troughing SP is an innovative product, validated by the Deutsche Bahn and S-Bahn Berlin, it is particularly suitable in the facilities, impassable infrastructure, inaccessible environments, or dented places .

A flexible and economical installation due to the use of a system for supporting and fixing HDG. Lightweight lengths of 6m, perforations and lateral sides of the preassembled connecting fasteners allow a quick and easy installation.

Stand-System SP

Material K23

- no corrosion
- extremely insulating material, no need to earth
- dielectrical resistance 30 kV with a certificate issued by IPH Berlin
- fire retardant property according to UL 94 : class V0
- halogen free
- UV resistant
- recyclable

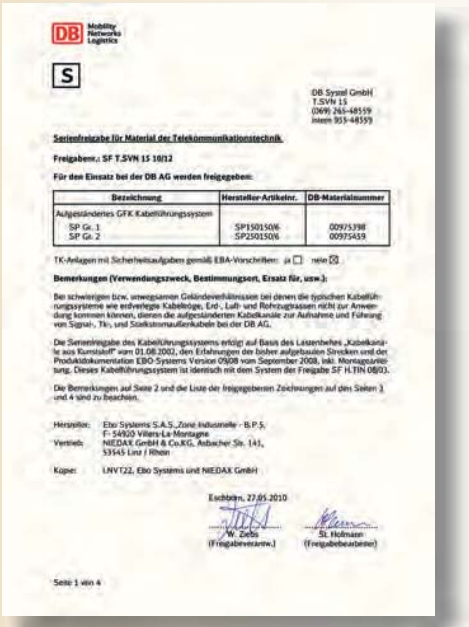
Mounting

- low weight
- Easy installation
- Delivered with perforations
- Delivery length 6 m
- Pre-assembled connectors allows a quick assembly
- The continuous installation allows variations of distances between supports
- the height of the system can be adjusted with variable pole lengths
- Particularly adapted to various topographical conditions

Load resistance

High mecanical resistance according to the specifications of the Federal Bureau of railways and Mannesmann Arcor (Vodafone).

- Homologation number: EBA / 21AZ2 / 0029/9 du 16.11.1999
- Approved by DB Systel GmbH: T.SVN 15 10/12 du 27.05.2010



DB Mobility Networks Logistics

S

DB Systel GmbH
T.SVN 15
(069) 265-48559
Intern 953-48559

Serienfreigabe für Material der Telekommunikationstechnik

Freigabenr.: SF T.SVN 15 10/12

Für den Einsatz bei der DB AG werden freigegeben:

Bezeichnung	Hersteller-Artikelnr.	DB-Materialnummer
Aufgeständertes GFK-Kabelführungssystem		
SP Gr. 1	SP150150V6	00975398
SP Gr. 2	SP250150V6	00975459

TK-Anlagen mit Sicherheitszu/Ausgängen gemäß EBA-Vorschriften: ja ☐ nein ☒

Bemerkungen (Verwendungszweck, Bestimmungsort, Ersatz für, usw.):

Bei schwierigen bzw. unwegsamen Geländeverhältnissen bei denen die typischen Kabelführungssysteme wie erdverlegte Kabeltröge, Erd-, Luft- und Rohrzugtrassen nicht zur Anwendung kommen können, dienen die aufgeständerten Kabelkanäle zur Aufnahme und Führung von Signal-, Tk-, und Starkstromaußenkabeln bei der DB AG.

Die Serienfreigabe des Kabelführungssystems erfolgt auf Basis des Laserschweiß „Kabelkanäle aus Kunststoff" vom 01.08.2002, den Erfahrungen der bisher aufgebauten Strecken und der Produktdokumentation EBO-Systems Version 09/08 vom September 2008, inkl. Montageanleitung. Dieses Kabelführungssystem ist identisch mit dem System der Freigabe SF H.TIN 08/03.

Die Bemerkungen auf Seite 2 und die Liste der freigegebenen Zeichnungen auf den Seiten 3 und 4 sind zu beachten.

Hersteller: Ebo Systems S.A.S., Zone Industrielle - B.P.5, F- 54920 Villers-Le Montagne
Vertrieb: NIEDAX GmbH & Co.KG, Aubacher Str. 141, 53545 Linz / Rhein
Kopie: LNVT22, Ebo Systems und NIEDAX GmbH

Eschborn, 27.05.2010

W. Zeibs (Freigabeverantw.) St. Hofmann (Freigabebearbeiter)

Seite 1 von 4

Federal Bureau of railwaysDeutsche Bundesbahn



Self standing cable troughing system SP

a compact system for the elevation and cables support along railways

- cable trays with removable cover
- self standing cable trays up to 6 m
- supporting pole in HDG material
- pole head in HDG material
- cover fixing with anti-theft bolts

Contact us

for solutions adapted to your special projects

Stand-System SP

Posts and post head fixing unit

Because of the shape of the pole head a height adjustment is possible. During installation on uneven ground, the swivel-mounted post head allows adjustment in three directions. The post head-fixing unit is a single piece, thus making it easy and quick to install. All the bolt fi ttings are standard size M10x25. A possible shift of the post position during installation can be overhauled thanks to the oblong holes on the top of the post head.



Adjustable post head in 3 directions



Post head adjustable in 2 directions

Covers



Overlapping covers through sleeves

Overlapping of the covers through sleeves avoids the infiltration of water.

The GRP cover is fixed with impregnable screw, type Torx, and a cage nut.



Impregnable screw, type Torx

Splice plates

The U-shaped connector made in 316 stainless steel secures perfectly the junction of each tray. Each 6 m length is delivered pre-assembled with a junction bolted on one side. The systems has been designed to be assembled by a single person whenever it is required. All the screws are round headed screws to avoid any cable injury. During the installation a 6 mm gap must be allowed between the tray lengths, and an 8 mm space between the tray covers.



Splice plate pre-assembly in the factory



Round headed screws, observed an expansion joint



Order of the srews

Divider



Divider

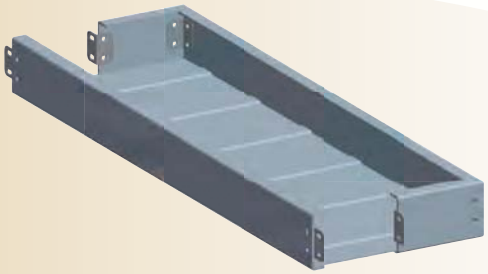
For the separation of the cables (with different fonctions and/or according voltages).

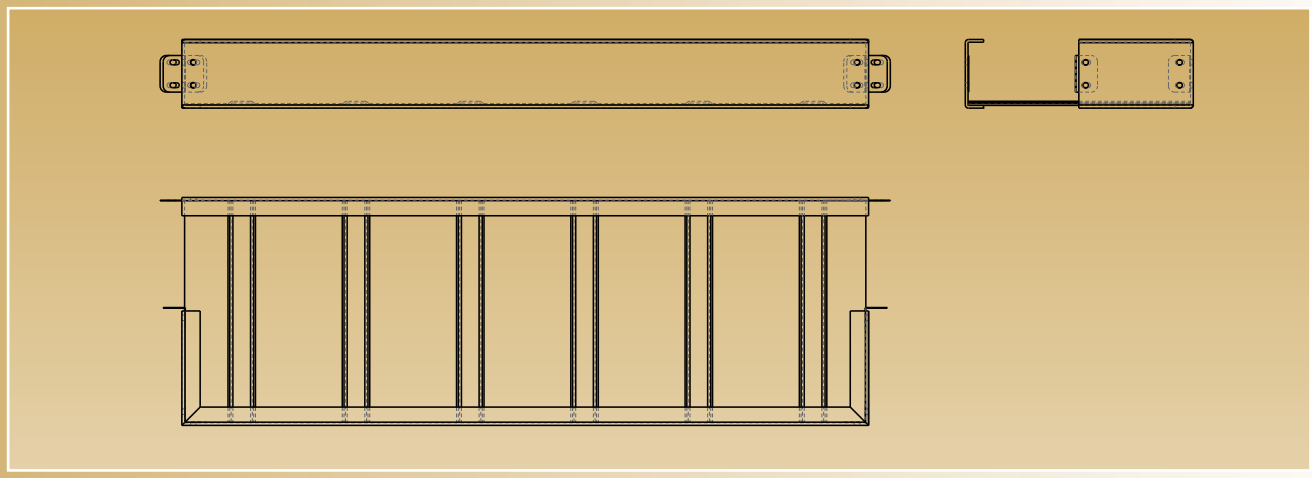
The divider is maintained at the bottom of the tray through the cable weight, thus no additional hardware required during installation.

Stand-System SP

Rectangular cables spare

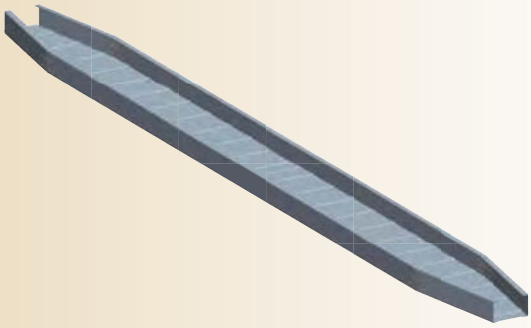
Fitting non-symmetrical, rectangular 1500 mm x 500 mm.
The connection system to the cable tray is integrated.

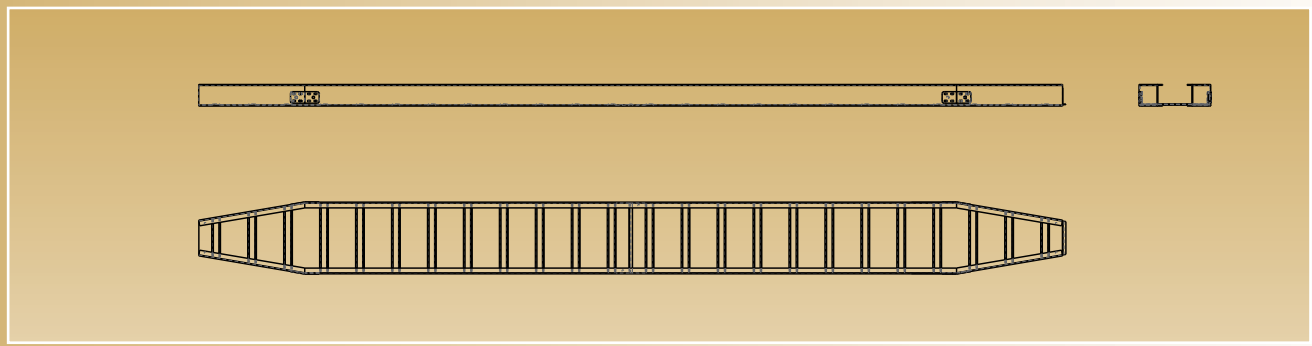




Symmetrical cables spare

The fitting is symmetrical, the center piece measured 4500mm x 500 mm and 6000 mm in total, included coupling.
The connection system to the cable tray is included.

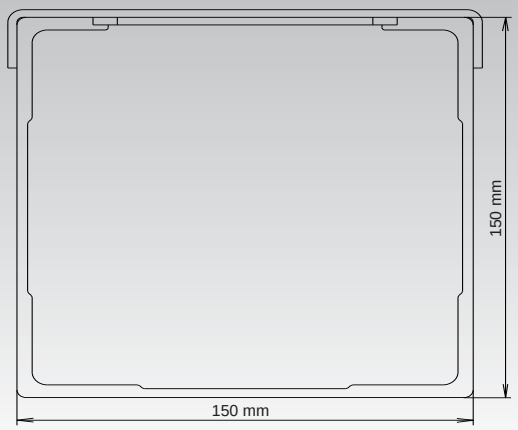




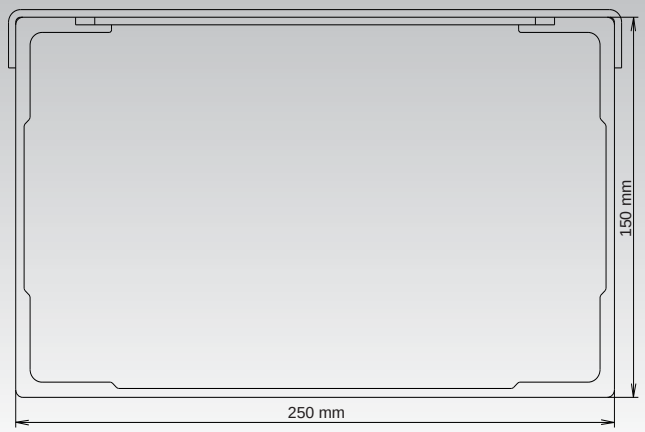
Instructions for assembly

Cable tray SP stand-system view profile

150 mm

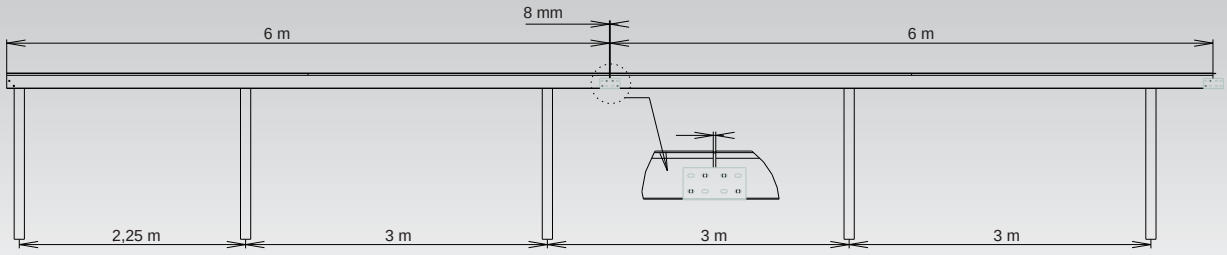


250 mm



Assembling the stand-SP system to support distance of 3 m

After installing the first post, the second will be installed at a distance of about 2.25 m to respect the position of the holes in the bottom of the base.



Assembling the stand-SP system to support distance of 6 m

After installing the first post, the second will be installed at a distance of about 4.50 m to respect the position of the holes in the bottom of the base.

