

Coverplate For the installation of Securifor® Panels on rectangular Posts

1 Scope

This technical datasheet specifies the properties of the coverplates, used for the installation of Securifor® panels on rectangular posts. The coverplate is made from continuously hot dip galvanized steel sheet (sendzimir), and is subsequently polyester coated which results in an excellent corrosion resistance.

A picture of the system (panels, post, coverplate) is given in figure 1 below.

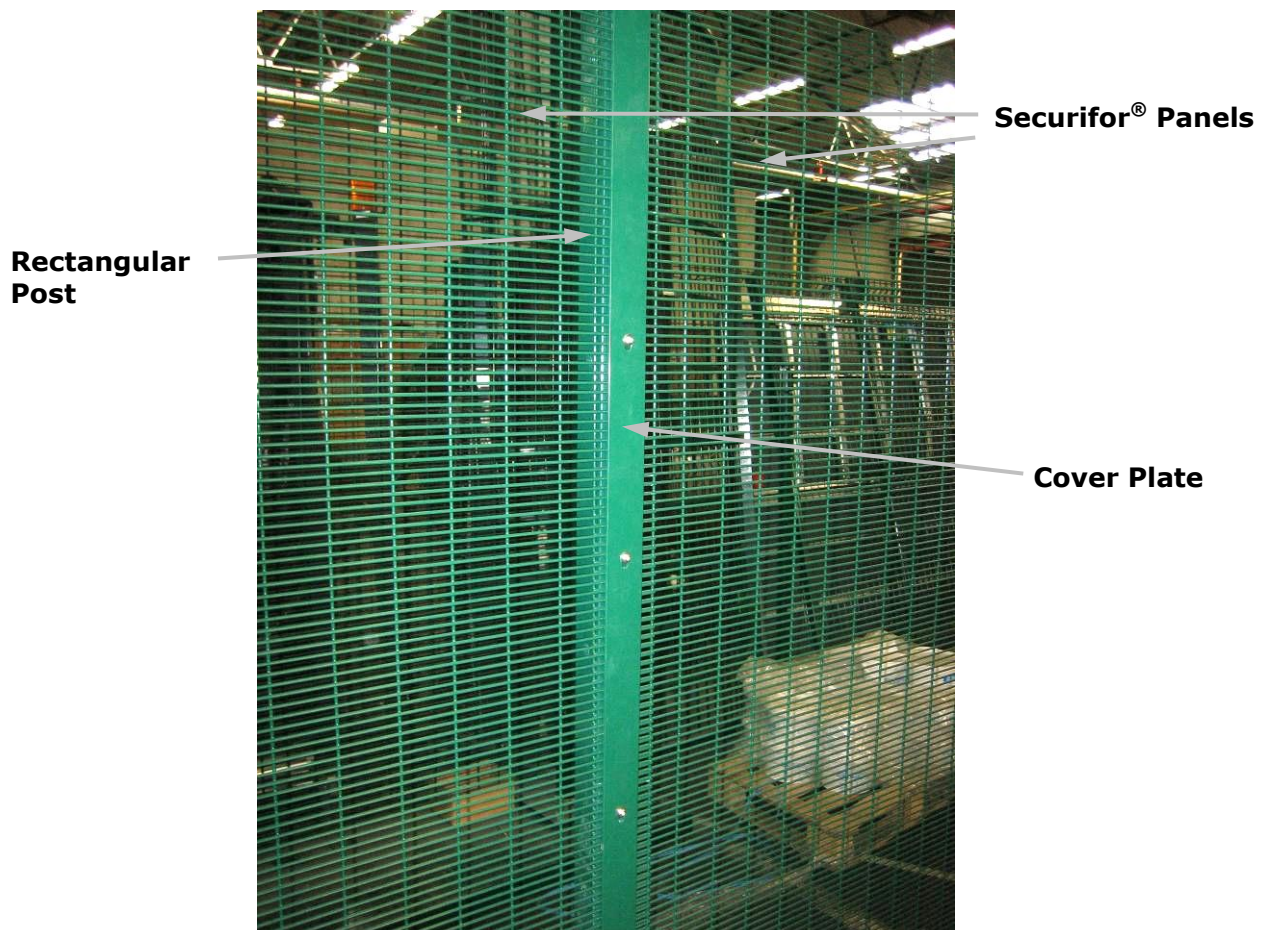


Figure 1.

Coverplate For the installation of Securifor® Panels on rectangular Posts

1.1 Normative References

- EN 10346: Continuously hot-dip coated steel flat products – technical delivery conditions.
- EN 10088-3 : Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes.
- ISO 9227: Corrosion tests in artificial atmospheres; salt spray tests.
- ISO 11507: Paints and varnishes – Exposure of coatings to artificial weathering – Exposure to fluorescent UV lamps and water.

2 Raw material

2.1 Steel used for the coverplates

Chemical composition: See table 1

Table 1: Chemical composition	
Element	%
C	≤ 0,20
Si	Max. 0,60
Mn	Max. 1,70
P	Max. 0,12
S	Max. 0,045

The steel is in accordance with the European Standard EN 10346.

The designation of the steel is: S250.

The steel strip is continuously hot-dip galvanized, in accordance with EN 10346 Z275.

If DX51D or S220 quality is used in accordance to EN 10346, the yield strength shall be minimum 235 N/mm².

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2.2 Steel used for the bolts, washers and nuts

The bolts, washers and nuts are made out of stainless steel, grade 304, number 1.4301 in accordance with EN 10088-3.

2.3 Polyester

The polyester is free of lead and cadmium.

3 Properties

3.1 Dimensions

Standard dimension of the coverplate: 60 x 6 mm

Dimension 40 x 10mm is available on request. (See figure 2)

The height of the cover plates is similar to the panel height.(2, 2 m40 and 3 m)
Except for 4 meter panels. Here are two coverplates used: 2 m + 2 m

The coverplates are standard installed with neoprene strips.

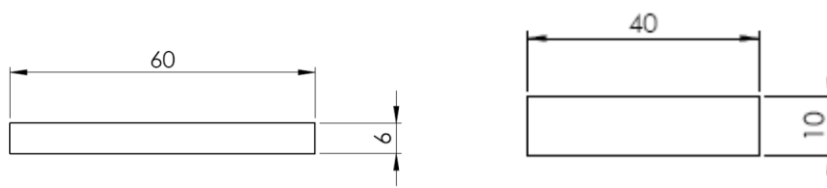


Figure 2

There are different methods of installing Securifor® panels on rectangular posts.
For each method, we have a different type of coverplate. (Drilling pattern)

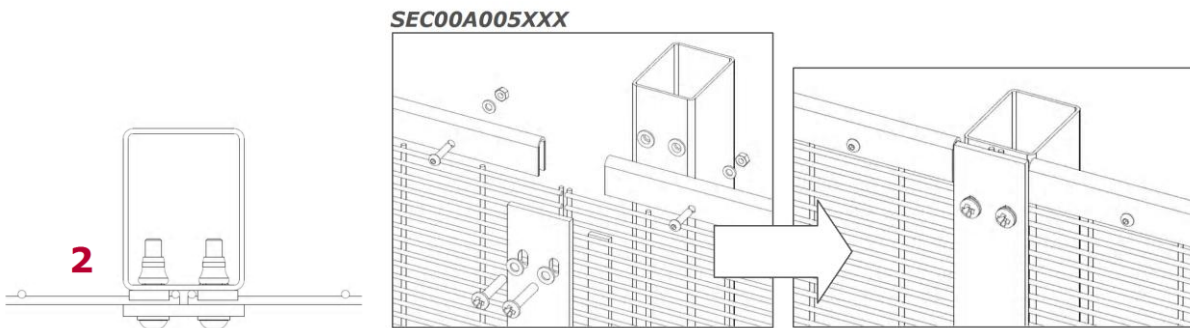
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Technical Data Sheet
TDS-05-26

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1) Securifor® panels are mounted beside each other on the rectangular posts

(Alternating drilling pattern)



The standard installation is by using neoprene strips.

By the standard installation with a cover plate screwed at one side of the post, bolts M8 x 40, washers M8 and inserts M8 mounted on the posts are used. (Posts with inserts)

If necessary, bolts can also be mounted through the post.

How to install the Securifor panels: See installation manual

In some cases also bolts M6 can be used to mount the coverplate on the rectangular posts.

(Drilling pattern double row)

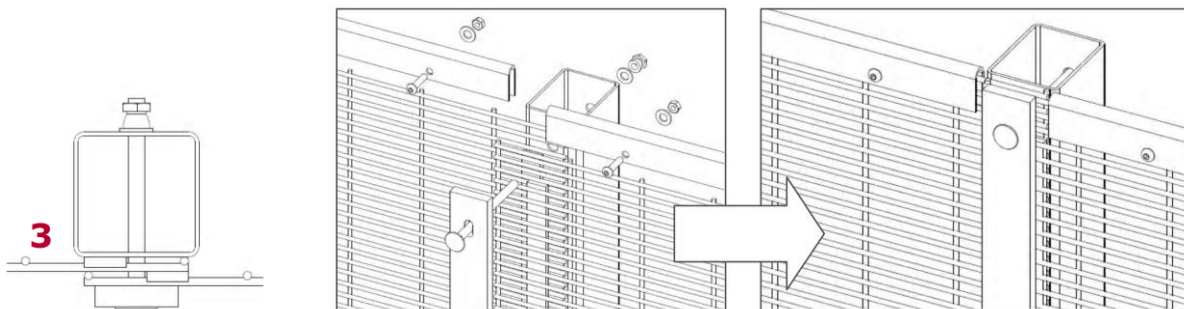
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2) Securifor® panels are mounted in overlap (Standard)



The standard installation is by using neoprene strips.

By the standard installation with a cover plate screwed through the post, mushroom head square neck bolts M8, washers M8 and self-breaking nuts M8 are used.

If necessary, bolts can also be screwed at one side of the post. (Posts with inserts)

How to install the Securifor panels: See installation manual

	Bolts	Length coverplate	Number of Holes	Betafence Technical drawing
Coverplate (panels next to each other)	M8	2005 mm	2 x 2 + 5	SEC31P005001
		2411,4 mm	2 x 2 + 6	SEC31P005002
		3010 mm	2 x 2 + 9	SEC31P005003
Coverplate (panels next to each other)	M6	2005 mm	2 x 7	SEC31P009001
		2411,4 mm	2 x 8	SEC31P009002
		3010 mm	2 x 11	SEC31P009003
Coverplate (panels in overlap)	M8	2005 mm	7	SEC31P007001
		2411,4 mm	8	SEC31P007002
		3010 mm	11	SEC31P007003

The material of M8 / M6 bolts, washers and nuts consists out of stainless steel, grade 304, number 1.4301 in accordance with EN 10088-3.

The type and length of the bolts is also depending on the way of installation.

One way bolts:

M8 x 40 mm, SEC40P002001, sapcode 7040832

M6 x 40 mm, SEC40P003001, sapcode 7037969

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4 Coating

4.1 *Metallic coating*

Min. of 275 g/m² as an average of 3 measurements and double side determined.
In accordance with EN 10346. (Z275)

4.2 *Polyester coating*

Thickness:

Min. 60 µm (Average of 10 measurements done on 1 coverplate)

Colour: Green RAL 6005.

Other colours are available and can be found in the technical data sheet TDS-99-03. (Polyester coating)

Adhesion:

Make two scratches by means of a hard metal pointed graving tool, penetrating through the metal and intersecting at an angle of 30° ± 5°. Lift a 30° peak with the point of a knife. The coating shall not be able to be lifted from the metal by more than 5 mm.

Resistance of the polyester to saltspray:

Make a diagonal cross by means of a hard metal pointed graving tool, penetrating through the metal. Test in accordance with ISO 9227.

After 1000 h there shall be no corrosion beneath the polyester or loss of adhesion in excess of 10 mm from the diagonals.

Resistance against UV: In accordance with ISO 11507

After 1000 h QUV and after washing with pure water, the colour difference, expressed as ΔE^* is maximum 3.

Loss of gloss: After 1000 hours max. 50 % of the original one, measured after being washed with pure water.

5 Packaging

The coverplates are packed on a wooden pallet, protected by UV resistible shrink or stretch foil.

An identification label with the Sapcode, product description, number of coverplates and colour shall be put on each side of the pallet.