

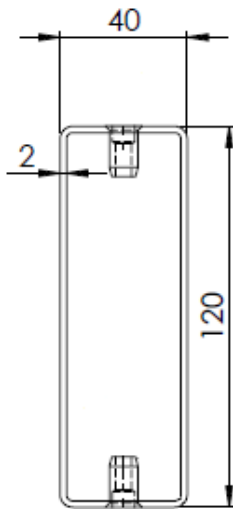
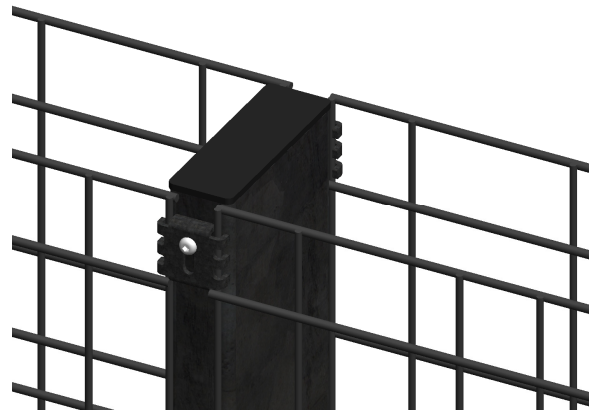
**Zenturo® Post****1 Scope**

The rectangular Zenturo® posts are made out of continuously hot-dip zinc coated steel sheet (Sendzimir).

Zenturo® posts are polyester coated to assure a good corrosion resistance.

The Zenturo® posts are developed for installation of Zenturo® panels and Zenturo® Super panels, as double skin, for the creation of a filled gabion wall. (See figures 1 and 2)

The Zenturo® posts are foreseen by M6 inserts.

**Figure 1****Figure 2****1.1 Normative References**

- ◆ EN 10305-5: Steel tubes for precision applications – Technical delivery conditions – Part5 : Welded and cold sized square and rectangular tubes.
- ◆ EN 13438: Powder organic coatings for galvanized steel products for construction purposes
- ◆ EN 10346: Continuously hot-dip coated steel flat products – technical delivery conditions
- ◆ ISO 9227: Corrosion tests in artificial atmospheres; salt spray tests.
- ◆ ASTM G 154 : Operating fluorescent light apparatus for UV exposure of non-metallic materials

## Zenturo<sup>®</sup> Post

### 2 Raw Material

#### 2.1 Chemical Analysis of the steel

Chemical analysis of Zenturo<sup>®</sup> post: See table 1.

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 EN10346.

The designation of the steel is: S250.

The steel strip is continuously hot-dip galvanized, in accordance with EN10346 Z275.

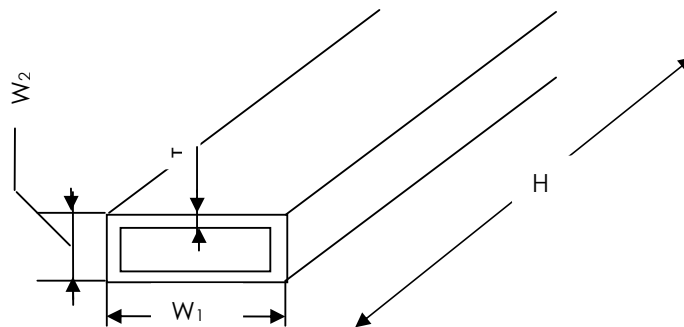
If DX51D or S220 quality is used in accordance to EN 10346, the yield strength shall be minimum 235N/mm<sup>2</sup>.

#### 2.2 Polyester Coating

The epoxy and polyester is free of lead and cadmium

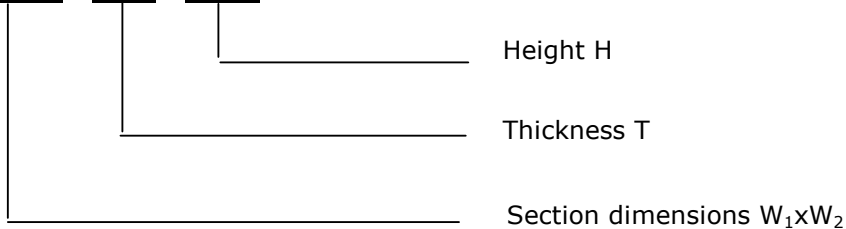
### 3 Requirements

#### 3.1 Designation



## Zenturo<sup>®</sup> Post

XX x XX x X.XX x XXXX



### 3.2 Dimensions and Tolerances

Standard types are summarised in the table 2

W <sub>1</sub>	W <sub>2</sub>	thickness T	height H	Betafence Drawing	Sapcode
120	40	2,00	1100	BFO31P001001	7051810
120	40	2,00	1500	BFO31P001002	7051811
120	40	2,00	1700	BFO31P001003	7051812
120	40	2,00	2000	BFO31P001004	7051813
120	40	2,00	2400	BFO31P001005	7051814
120	40	2,00	2700	BFO31P001006	7051815

Tolerances:

on the outside dimension W1 and W2: See table 3

on the thickness: ± 10% of the thickness

on the length: ± 2mm

H	B	tolerance
120	40	± 0.70

The tolerance is in accordance with EN 10305-5 table 6

M6 inserts are mounted at both sides of the post.

### 3.3 Tensile strength

The strength is specified by

tensile strength: min. 330 N/mm<sup>2</sup>

yield strength: min. 235 N/mm<sup>2</sup>

When the tensile strength is lower than 330N/mm<sup>2</sup>, the yield strength shall be the overriding criterion.

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**Zenturo® Post****4. Coating****4.1 Zinc**

Zinc coating:

Min. of 275 g/m<sup>2</sup> as an average of 3 measurements and double side determined.

In accordance with EN10346. (Z275)

**4.2 Polyester Coating**

**Thickness:** Min. 60 µm (average of 4 measurements)

The polyester is free of lead and cadmium.

**Colour:** Metallic anthracite. BF7016M. Other colours are available and can be found in the technical data sheet TDS-99-33. (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 and no signs of blistering, cracking or crazing on any part of the specimen.

**Resistance against UV:** in accordance with ASTM G 154:

The tests are carried out on a smooth piece of plate that has been through the entire production process for the product involved.

After 2500 h QUV and after washing with pure water, the colour difference, expressed as ΔE\* is maximum 5.

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

**Zenturo® Post****4 Accessories****4.1 Post Cap**

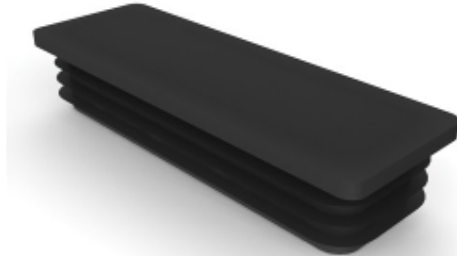
Each post is provided with a plastic cap made out of UV resistant plastic.

Dimensions: 120 x 40mm

Colour: black

The post cap will fit on the post without any problem.

The cap shall be pre-installed on the post.

**4.2 Distance holder**

A distance holder is used in order to avoid bending of the panels due to the weight of the gabion infill.

The specific distance holders are developed to be fully compatible with the Zenturo® posts.

The holder is made out of a Zincalu® super coated steel wire.

Wire diameter: 2,90mm.

The wire is bended into hooks at both sides.



**Zenturo® Post****4.3 Spider fixator**

Spider fixators are used to mount panels on the Zenturo® posts.  
The spider fixators are made out of steel, hot dip galvanized and afterwards polyester coated.  
Polyester coating thickness: min. 60µm  
Colour: Metallic anthracite BF7016M

**4.4 Bolts and washers**

Hexagon security bolts M6 x 40: made out of stainless steel  
Washers: M6 made out of stainless steel

**4.5 Inserts**

Dimensions of the inserts: M6 (See figure 1)

## Zenturo® Post

### 5 Packaging

**Posts:**

Each post shall have a label with product identification and an ean-code.  
 A black cap will be pre-mounted on the post.

80 posts will be put on a four way pallet.

The posts are bundled per 2, by means of UV resistable plastic foil.

The foil is covering the posts completely.

Two strong straps shall be put around the packed pallet.

An identification label with the SAP-code and number of posts shall be put on each side of the pallet.

**Table 4 : pallet dimensions**

Height of the post  mm	Number of posts / pallet	Pallet dimensions L x W x H cm	Weight of the post kg	Sapcode Anthracite BF7016M
1100	80	115 x 100 x 58	3,4	7051810
1500	80	155 x 100 x 58	4,6	7051811
1700	80	175 x 100 x 58	5,2	7051812
2000	80	205 x 100 x 58	6,2	7051813
2400	80	245 x 100 x 58	7,4	7051814
2700	80	275 x 100 x 58	8,3	7051815

**Fixators:**

50 spider fixators, including 50 stainless steel bolts and washers are packed in a cardboard box.  
 Each cardboard box shall have a label mentioning :

- The product identification
- Ean code

**Distance holders:**

100 distance holders are packed in a box.  
 Each box shall have a label mentioning :

- The product identification
- Ean code

**Technical Data Sheet**  
**TDS-05-71****Zenturo<sup>®</sup> Post****Note:**

In some cases the packaging instructions can be slightly different.

The packaging instruction could be different or changed according to the possibilities of the producing plant or in agreement with the customer. (use of cardboard protections, straps, bi-plex, stretch or shrink foil, etc..... ).

All deviations will be discussed with the packaging and handling committee before they are integrated in the production process of the producing plant.

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*The information and data given are typical for the product described . However technical changes are possible without any notice.*