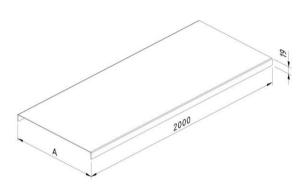
Quality Registration Technical specification

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Technical specifications CL-C (Cable Ladder Cover)



Finishing:	Pre-galvanize	ed						
Product	Number	Height	Width	Length	Dim A	Fmax	Unit	Packaging
		(mm)	(mm)	(mm)	(mm)	(kN)		(unit)
CL-C-200-2PG	10009	0	200	2000	200		M	2
CL-C-300-2PG	10010	0	300	2000	300		М	2
CL-C-400-2PG	10011	0	400	2000	400		М	2
CL-C-500-2PG	10012	0	500	2000	500		М	2
CL-C-600-2PG	10013	0	600	2000	600		М	2

Finishing:	Dipped galva	nized						
Product	Number	Height	Width	Length	Dim A	Fmax	Unit	Packaging
		(mm)	(mm)	(mm)	(mm)	(kN)		(unit)
CL-C-200-2DG	10376	0	200	2000	200		M	2
CL-C-300-2DG	10377	0	300	2000	300		М	2
CL-C-400-2DG	10378	0	400	2000	400		М	2
CL-C-500-2DG	10379	0	500	2000	500		М	2
CL-C-600-2DG	10380	0	600	2000	600		М	2

Finishing:	Coated							
Product	Number	Height	Width	Length	Dim A	Fmax	Unit	Packaging
		(mm)	(mm)	(mm)	(mm)	(kN)		(unit)
CL-C-200-2CO	10702	0	200	2000	200		М	2
CL-C-300-2CO	10703	0	300	2000	300		М	2
CL-C-400-2CO	10704	0	400	2000	400		М	2
CL-C-500-2CO	10705	0	500	2000	500		М	2
CL-C-600-2CO	10706	0	600	2000	600		M	2

Mounting instructions:

Load capacity:

Standard:

Max. load:

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Load diagram: -

Information

Coupler: CL60-CCL-SS

Equipotential bonding: IEC61537

EC declaration: EC directive 2006/95/EC (Low voltage) as modified by directive 93/68/EEC (CE marking)

PG

Sendzimir galvanized (EN 10143) PG (pre-galvanized)

Products made of Sendzimir (pre-galvanized) or continuous hot-dip galvanized steel sheet and coils are mostly used wherever limited chemical contamination is likely, for example, in of ces, industrial buildings, covered parking lots, etc.

Characteristic of this steel type is that – prior to mechanical deformation – it is given a zinc coating by means of a continuous dipping process. This zinc coating is easily deformed. A cathodic action occurs on cut surfaces (up to 1.5mm) that protects against oxidation.

First, the steel is chemical cleaned and roughened in order to achieve a good bond. After the dipping process, the surplus zinc is blown off and one obtains an extra passivating coat (an ultra-thin protective coat) to prevent oxidation of the zinc coating (white rust). The coating thickness is usually expressed in g/m2. The most deployed type of Sendzimir steel is Z 275 = 275g/m2 (weighed on both sides), this corresponds to 18-20 μ m (micron). Sendzimir galvanized steel sourced from modern galvanizing lines has, in general, a uniform, shiny appearance. The previous, common fl owery surface is scarcely seen these days. This effect is obtained under the infl uence of lead but has no effect on the quality of the coating. The use of lead was banned due to the ever more stringent environmental standards.

DG

Hot-dip galvanized (EN ISO 1461) DG (dipped-galvanised)

Whenever cable support systems are exposed to the elements and/or caustic substances (such as petrochemical applications), they are given an additional treatment in the form of hot-dip galvanizing.

Hot-dip galvanizing is a materials science process designed to render the steel non-corroding. If this coating is breached, the zinc will act as a sacrifcial anode, so that the iron is protected by the zinc (aka cathodic protection). During galvanization, three alloys are formed: an iron-zinc alloy, a zinc-iron alloy and also a zinc alloy. The pre-treatment of the steel is crucially important in order to achieve a good bond.

The following process steps are involved: degreasing, rinsing, pickling, re-rinsing, fl uxing, drying and hot-dipping. The coating thickness depends on the steel composition, the material thickness and the time spent in the zinc bath. In the galvanizing standard NEN-EN-ISO 1461, the minimum coating thickness are prescribed (as shown in following overview), just as the zinc shrinkage per year which will depend on environmental factors (see table entitled 'Corrosion classes'). In addition, the zinc coating forms an excellent substrate for other post-treatments, such as applying a powder coating and coats of paint (better known as the duplex system).

An added advantage of hot-dip galvanizing is that along the edges and pointy bits, where objects are usually extra susceptible to corrosion, the zinc coating is thicker because of the behaviour of the liquid.

Minimum thicknesses of the zinc coating according to ISO 1461

- Using the hot-dip method

Material thickness \geq 6 mm = min. zinc coating thickness (average) 85 μ m

Material thickness ≥ 3 mm to < 6 mm = min. zinc coating thickness (average) 70μm

Material thickness ≥ 1,5 mm to < 3 mm = = min. zinc coating thickness (average) 55μm

Material thickness < 1,5 mm = min. zinc coating thickness (average) 45μm

- Using the drum method

Material thickness ≥ 3 mm = min. zinc coating thickness (average) 55μm

Material thickness < 3 mm = min. zinc coating thickness (average) $45\mu m$

CO

Polyester powder coating CO (coated)

Polyester coats will be used in moderate environments where the aesthetic aspect and sustainability must go hand in hand. The distinctive property of a polyester coating is its resistance to discoloration due to sunlight.

If used in a harsher environment, it is strongly recommended to apply an epoxy coating; this is less porous and therefore more resistant to chemicals. The disadvantage of an epoxy coating, however, is the rapid discoloration. If you want the best of both worlds, use an epoxy primer with a polyester top coat.

Just as with all the treatment techniques mentioned above, a thorough pre-treatment is crucial here too.

Depending on the base material, one will, in this case, degrease, rinse, pickle, rinse again, apply a conversion coat (e.g. chrome), rinse again, rinse with demi-water and/or dry.

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Field of application according to resistance against corrosion:

Corrosion class	Atmospheric corrosion	Indoor environment	Outdoor environment	Surface treatments
C1	< 0,1μπι	Heated buildings with neutral atmospheres: offices, shops, schools, hotels.		Electro-galvanised (EG) EN ISO 2081
C2	0,1 - 0,7µm	Unheated buildings where condensation may occur: sports halls, warehouses, shops.	Rural areas. Atmosphere with low impurities.	Pre-galvanised (PG) EN 10327 – EN 10143
C3	0,7 - 2μm	Production facilities with high moisture levels and some air impurities due to industrial processes: production plants.	City and industrial atmosphere, some impurities, coastal areas with low salt loads.	Dipped-galvanised (DG) EN ISO 1461
C4	2 - 4μπι	Production facilities with high moisture levels and high air impurities due to industrial processes: swimming pools, Chemical industry.	Industrial areas and coastal areas with low salt load.	Dipped-galvanised (DG) EN ISO 1461 Polyester coating (CO) EN ISO 12944
C5-I	4 - 8μm	Polyester coating (CO)	Industrial areas with high moisture level and aggressive atmosphere.	Duplez (DU) (Dipped galvanised • Polyester coating)
С5-М	4 - 8 μm	EN ISO 12944	Coastal or offshore areas with salt load.	Duplez (DU) (Dipped galvanised • Polyester coating)

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