Technical specifications
CTLI60 (Cable Tray interl. ends light)
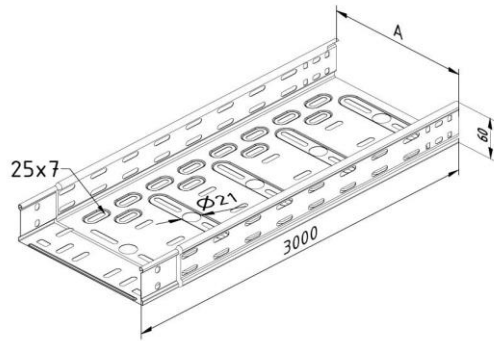

Finishing:	Pre-galvanized							
Product	Number	Height (mm)	Width (mm)	Length (mm)	Dim A (mm)	Fmax (kN)	Unit	Packaging (unit)
CTLI60-050-3PG	13870	60	50	3000	50		M	3
CTLI60-075-3PG	13824	60	75	3000	75		M	3
CTLI60-100-3PG	13825	60	100	3000	100		M	3
CTLI60-150-3PG	13826	60	150	3000	150		M	3
CTLI60-200-3PG	13827	60	200	3000	200		M	3
CTLI60-300-3PG	13871	60	300	3000	300		M	3
CTLI60-400-3PG	13872	60	400	3000	400		M	3

Finishing:	Dipped galvanized							
Product	Number	Height (mm)	Width (mm)	Length (mm)	Dim A (mm)	Fmax (kN)	Unit	Packaging (unit)
CTLI60-050-3DG	14284	60	50	3000	50		M	3
CTLI60-075-3DG	14135	60	75	3000	75		M	3
CTLI60-100-3DG	13965	60	100	3000	100		M	3
CTLI60-150-3DG	14043	60	150	3000	150		M	3
CTLI60-200-3DG	14039	60	200	3000	200		M	3
CTLI60-300-3DG	14042	60	300	3000	300		M	3
CTLI60-400-3DG	14076	60	400	3000	400		M	3

Finishing:	Coated							
Product	Number	Height (mm)	Width (mm)	Length (mm)	Dim A (mm)	Fmax (kN)	Unit	Packaging (unit)
CTLI60-050-3CO	14129	60	50	3000	50		M	3
CTLI60-075-3CO	14130	60	75	3000	75		M	3
CTLI60-100-3CO	14131	60	100	3000	100		M	3
CTLI60-150-3CO	14132	60	150	3000	150		M	3
CTLI60-200-3CO	14133	60	200	3000	200		M	3
CTLI60-300-3CO	14134	60	300	3000	300		M	3
CTLI60-400-3CO	14136	60	400	3000	400		M	3

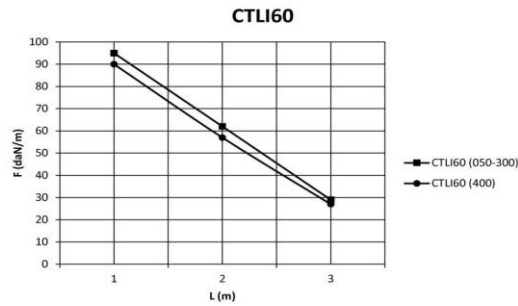| Mounting instructions:	
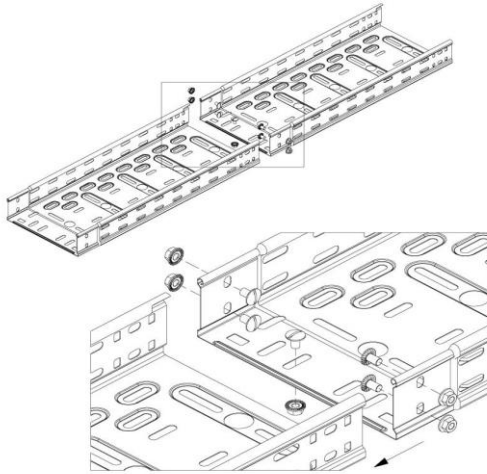
Load capacity:

Standard: IEC61537

Max. load: -

Load diagram:

Werte aus Belastungsprüfungen nach der Norm IEC 61537, Prüftyp III.
Verbindung auf 1/5xL von erster und letzter Stütze, Endspannweite = 0.8xL, 5xBN06-10-EG

F = die höchstzulässige Belastung pro Meter in daN/m
L = der Unterstützungsabstand in m

Values from loading tests as per the IEC 61537 standard, test type III.
Connection at 1/5xL from first and last support, end span = 0.8xL, 5xBN06-10-EG

F = the max. permissible load per metre in daN/m
L = the distance between the supports in m

Information:

Coupler: BN06-10-EG

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 µm (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 eff ect 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 ≥ 6 mm = min. zinc coating thickness (average) 85µm

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) 45µm

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.

Field of application according to resistance against corrosion:

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Corrosion class	Atmospheric corrosion	Indoor environment	Outdoor environment	Surface treatments
C1	< 0,1µm	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 - 4µm	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.	Duplex (DU) (Dipped galvanised + Polyester coating)
C5-M	4 - 8 µm	EN ISO 12944	Coastal or offshore areas with salt load.	Duplex (DU) (Dipped galvanised + Polyester coating)