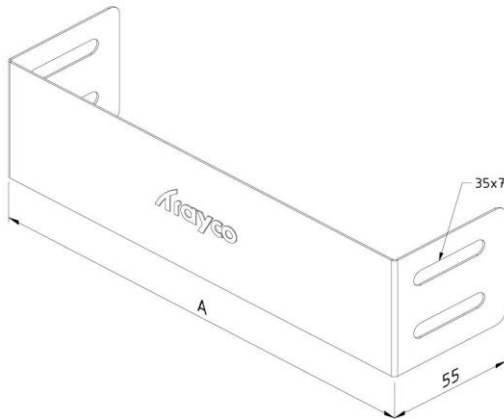


Technical specifications

CT-E (Cable Tray End Piece)



Finishing:		Pre-galvanized						
Product	Number	Height (mm)	Width (mm)	Length (mm)	Dim A (mm)	Fmax (kN)	Unit	Packaging (unit)
CT35-E-050-PG	12136	35	50	0	41		ST	1
CT35-E-075-PG	12137	35	75	0	66		ST	1
CT35-E-100-PG	12138	35	100	0	91		ST	1
CT35-E-150-PG	12139	35	150	0	141		ST	1
CT35-E-200-PG	12140	35	200	0	191		ST	1
CT35-E-300-PG	12141	35	300	0	291		ST	1
CT60-E-050-PG	12142	60	50	0	41		ST	1
CT60-E-075-PG	12143	60	75	0	66		ST	1
CT60-E-100-PG	10116	60	100	0	91		ST	1
CT60-E-150-PG	10117	60	150	0	141		ST	1
CT60-E-200-PG	10118	60	200	0	191		ST	1
CT60-E-300-PG	10119	60	300	0	291		ST	1
CT60-E-400-PG	10120	60	400	0	391		ST	1
CT60-E-500-PG	12144	60	500	0	491		ST	1
CT60-E-600-PG	12145	60	600	0	591		ST	1
CT85-E-100-PG	11648	85	100	0	91		ST	1
CT85-E-150-PG	11649	85	150	0	141		ST	1
CT85-E-200-PG	11650	85	200	0	191		ST	1
CT85-E-300-PG	11651	85	300	0	291		ST	1
CT85-E-400-PG	11652	85	400	0	391		ST	1
CT85-E-500-PG	11653	85	500	0	491		ST	1
CT85-E-600-PG	11654	85	600	0	591		ST	1
CT110-E-150-PG	11957	110	150	0	141		ST	1
CT110-E-200-PG	11958	110	200	0	191		ST	1
CT110-E-300-PG	11959	110	300	0	291		ST	1
CT110-E-400-PG	11960	110	400	0	391		ST	1
CT110-E-500-PG	11961	110	500	0	491		ST	1

Finishing:		Dipped galvanized						
Product	Number	Height (mm)	Width (mm)	Length (mm)	Dim A (mm)	Fmax (kN)	Unit	Packaging (unit)
CT35-E-050-DG	12186	35	50	0	41		ST	1
CT35-E-075-DG	12187	35	75	0	66		ST	1
CT35-E-100-DG	12188	35	100	0	91		ST	1

CT35-E-150-DG	12189	35	150	0	141	ST	1
CT35-E-200-DG	12190	35	200	0	191	ST	1
CT35-E-300-DG	12191	35	300	0	291	ST	1
CT60-E-050-DG	12192	60	50	0	41	ST	1
CT60-E-075-DG	12193	60	75	0	66	ST	1
CT60-E-100-DG	10439	60	100	0	91	ST	1
CT60-E-150-DG	10440	60	150	0	141	ST	1
CT60-E-200-DG	10441	60	200	0	191	ST	1
CT60-E-300-DG	10442	60	300	0	291	ST	1
CT60-E-400-DG	10443	60	400	0	391	ST	1
CT60-E-500-DG	12194	60	500	0	491	ST	1
CT60-E-600-DG	12195	60	600	0	591	ST	1
CT85-E-100-DG	11786	85	100	0	91	ST	1
CT85-E-150-DG	11787	85	150	0	141	ST	1
CT85-E-200-DG	11788	85	200	0	191	ST	1
CT85-E-300-DG	11789	85	300	0	291	ST	1
CT85-E-400-DG	11790	85	400	0	391	ST	1
CT85-E-500-DG	11791	85	500	0	491	ST	1
CT85-E-600-DG	11792	85	600	0	591	ST	1
CT110-E-150-DG	12046	110	150	0	141	ST	1
CT110-E-200-DG	12047	110	200	0	191	ST	1
CT110-E-300-DG	12048	110	300	0	291	ST	1
CT110-E-400-DG	12049	110	400	0	391	ST	1
CT110-E-500-DG	12050	110	500	0	491	ST	1

Finishing:		Coated						
Product	Number	Height (mm)	Width (mm)	Length (mm)	Dim A (mm)	Fmax (kN)	Unit	Packaging (unit)
CT35-E-050-CO	12236	35	50	0	41		ST	1
CT35-E-075-CO	12237	35	75	0	66		ST	1
CT35-E-100-CO	12238	35	100	0	91		ST	1
CT35-E-150-CO	12239	35	150	0	141		ST	1
CT35-E-200-CO	12240	35	200	0	191		ST	1
CT35-E-300-CO	12241	35	300	0	291		ST	1
CT60-E-050-CO	12242	60	50	0	41		ST	1
CT60-E-075-CO	12243	60	75	0	66		ST	1
CT60-E-100-CO	10767	60	100	0	91		ST	1
CT60-E-150-CO	10768	60	150	0	141		ST	1
CT60-E-200-CO	10769	60	200	0	191		ST	1
CT60-E-300-CO	10770	60	300	0	291		ST	1
CT60-E-400-CO	10771	60	400	0	391		ST	1
CT60-E-500-CO	12244	60	500	0	491		ST	1
CT60-E-600-CO	12245	60	600	0	591		ST	1
CT85-E-100-CO	11842	85	100	0	91		ST	1
CT85-E-150-CO	11843	85	150	0	141		ST	1
CT85-E-200-CO	11844	85	200	0	191		ST	1
CT85-E-300-CO	11845	85	300	0	291		ST	1
CT85-E-400-CO	11846	85	400	0	391		ST	1
CT85-E-500-CO	11847	85	500	0	491		ST	1
CT85-E-600-CO	11848	85	600	0	591		ST	1
CT110-E-150-CO	11894	110	150	0	141		ST	1
CT110-E-200-CO	11895	110	200	0	191		ST	1
CT110-E-300-CO	11896	110	300	0	291		ST	1
CT110-E-400-CO	11897	110	400	0	391		ST	1
CT110-E-500-CO	11898	110	500	0	491		ST	1

Mounting instructions:

-

Load capacity:

Standard: -
Max. load: -
Load diagram: -

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 offices, 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 flowery surface is scarcely seen these days. This effect is obtained under the influence 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-galvanized)

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 sacrificial 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, fluxing, 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:

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)