

Cable Trays - Information

Atkore Unistrut Cable Tray Information

Materials and Finishes

Pre-Galvanised [PG]

Cable Trays, brackets and fittings can be Pre-Galvanised. Pre-Galvanising is to BS EN 10346 2009 (Coating Z275).

Hot-Dip Galvanised [HG]

Cable Trays, brackets, cantilever arms and fittings can be Hot-Dip Galvanised in accordance with BS EN ISO1461:2009 and chromate passivated.

The minimum average Zinc Coating is as follows:

- Cold rolled from 1.5mm Steel - 55 microns
- Fittings spun galvanised - 45 microns

Stainless Steel [SS]

- Stainless Steel 1.4301 (304)
- Stainless Steel 1.4404 (316L)
- Cleaned (Pickled & Passivated)

Applying a pickling process to stainless steel results in a clean product and it also removes any heat discoloration that has occurred in the welding process.

SPECIAL COATINGS AND MATERIAL GRADES ARE AVAILABLE ON REQUEST

Certification and Quality Standards

ISO 9001 - Quality system certification

ISO 14001 - Environment certification

ISO45001 - Health and safety certification

Useful Cross Section - Unistrut Tray

Light Duty (L)

Width	Useful cross section
mm	(cm ²)
50	5.4
75	8.1
100	10.9
150	16.6
225	24.9
300	49.9
450	75.1
600	95.3
750	119.3
900	143.3

Medium Duty (M-25)

Width	Useful cross section
mm	(cm ²)
50	11.4
75	17.4
100	23.5
150	35.6
225	53.7
300	70.4
450	106.1
600	141.8
750	171.1
900	205.6

Heavy Duty (H-50)

Width	Useful cross section
mm	(cm ²)
75	35.8
100	48.1
150	72.7
225	108.2
300	144.8
450	213.6
600	285.6
750	357.6
900	429.6

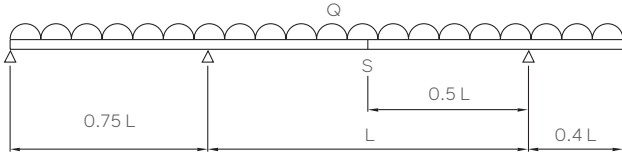
Stated loadings apply to mild steel products only.

Pickle & Passivate is available upon request

Loading Data

Atkore Unistrut Cable Tray Brackets

Loading Data



Load test according to CEI/IEC 61537:2001

Q = UDL (uniformly distributed load)

Safety Factor = 1.7

L = intermediate span

F = deflection = 1/100 of the intermediate span (max.)

S = splice location

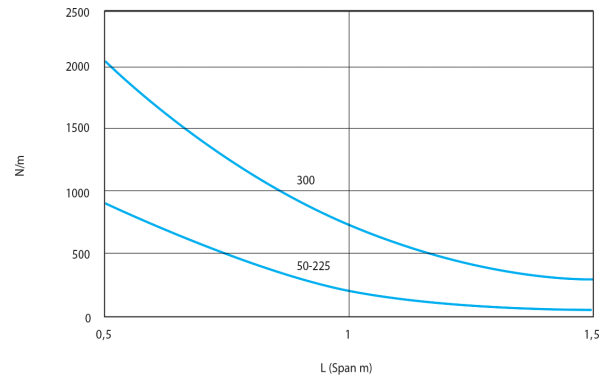
Atkore Unistrut's load testing is in accordance with CEI/IEC 61537:2001. In practical terms this covers continuous/multi span installations, evenly loaded along the length of, and across the full width of the tray. The end spans in these installations should be reduced to 0.75 of the intermediate spans.

Deflection: Atkore Unistrut's load and deflection figures are in accordance with CEI/IEC 61537:2001, with the characteristic deflection of Atkore Unistrut Cable Tray limited to span/100 and load figures inclusive of a safety factor of 1.7.

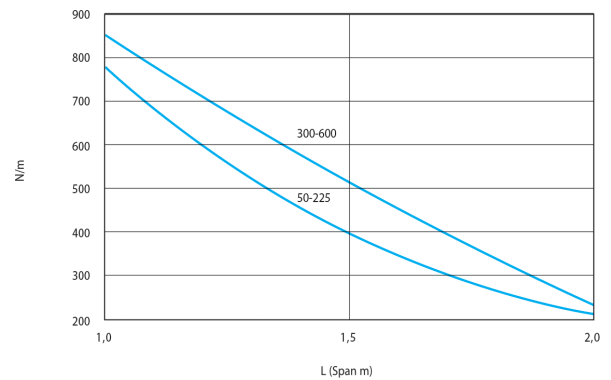
Accessories: To ensure adequate support, accessories should be supported locally.

Couplers: The loading and deflection tables for Atkore Unistrut Cable Tray assume that the couplers are located at the most onerous position within the span (i.e. mid span). To maintain the load/deflection figures stated in the tables, the couplers should not be located in end spans or over support locations. Straight couplers were utilised for the testing of the medium and heavy duty Cable Trays. Only one pair of couplers should be installed per span.

Light Duty Cable Tray



Medium Duty Cable Tray



Heavy Duty Cable Tray

