PRODUCT BROCHURE

T&B® Cable Tray

Specialty aluminum solutions

Long-span cable tray helps you go the distance

40-foot spans reduce support requirements

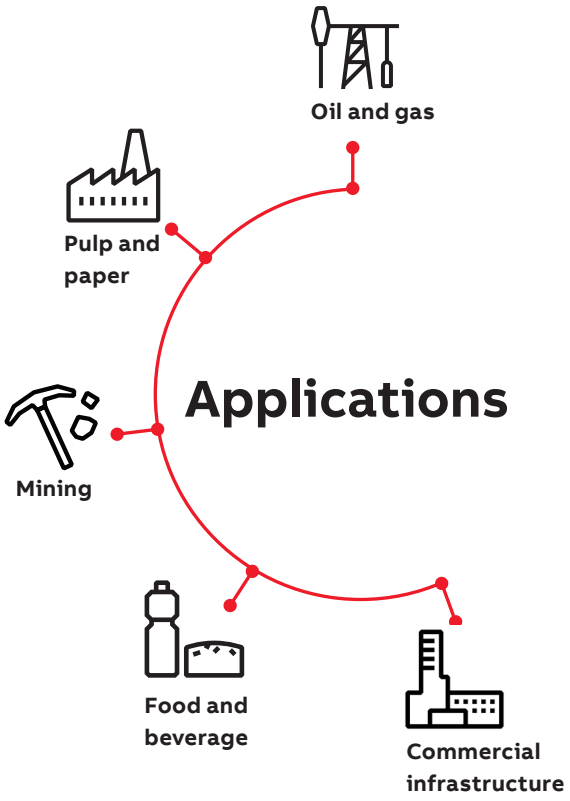
For cable tray applications lacking sufficient space for the number of supports required for standard-length sections, choose T&B Cable Tray long-span AH1-8 series aluminum cable tray in 40-foot (12.2-meter) straight sections. These longer-length cable tray sections are ideal for industrial and commercial applications such as roadway crossings and pipe bridges or lowering installation costs by reducing the number of supports required when you have long straight paths to cover in your cable tray installation.

Features

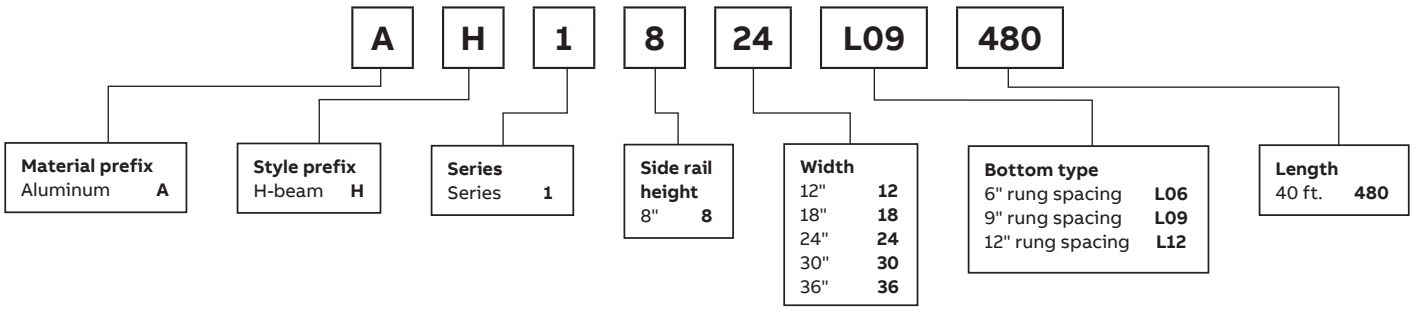
- Long-span straight sections require support only between sections, every 40 ft. (12.2 m)
- Extruded aluminum alloy construction offers high strength-to-weight ratio and good corrosion resistance
- Features H-beam style side rails in 8" height
- Strut rung design accepts standard strut accessories
- Available in widths of 12" to 36"
- Available in ladder-style with 6", 9" and 12" rung spacing

Applications

- Oil and gas
- Pulp and paper
- Mining
- Food and beverage
- Commercial infrastructure



Straight section number selection



Technical specifications

All calculations and data are based on 36" wide cable trays with rungs spaced on 12" centers with tray supported as simple spans with deflection measured at the midpoint. Continuous spans may reduce deflection by as much as 50%.

Deflection factor

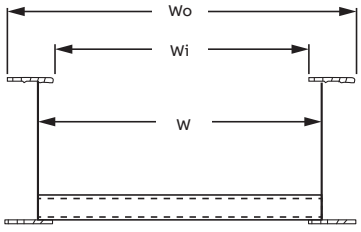
For lighter loads, deflection at any length can be calculated by multiplying the load by the deflection factor.

		Classifications	Support span (ft.)					
Series		**NEMA**	**18**	**20**	**22**	**24**	**26**	**28**
AH1-8	Load (lb)/ft.)	Exceeds 20C	528	428	353	297	253	218
	Deflection (in.)		2.1360	2.6371	3.1909	3.7974	4.4567	5.1687
	Deflection factor		0.0040	0.0062	0.0090	0.0128	0.0176	0.0237

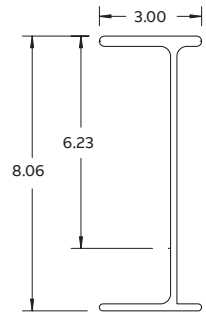
		Classifications	Support span (ft.)					
Series		**NEMA**	**30**	**32**	**34**	**36**	**38**	**40**
AH1-8	Load (lb)/ft.)	Exceeds 20C	190	167	148	132	118	112
	Deflection (in.)		5.9334	6.751	7.625	8.548	9.486	11.054
	Deflection factor		0.0312	0.0404	0.0515	0.0648	0.0804	0.0987

—

Dimensions



W (in.)	Wo (in.)	Wi (in.)
12	13.82	7.82
18	19.82	13.82
24	25.82	19.82
30	31.82	25.82
36	37.82	31.82



Technical specifications

Load ratings: 1.5 safety factor. All tray sections will support an additional 200 lb concentrated load on any portion of tray (side rail, rung, etc.) above and beyond published load class.

		Classifications		
Series	**Side rail design factors 1 pair**	**NEMA**	**CSA**	**UL**
AH1-8	Ix = 58.36 in^4 Sx = 13.37 in^3 Area = 5.86 in^2	Exceeds 20C	Exceeds E/6 M	UL cross sectional area: 2.00 in^2

Large-radius cable tray

Custom-built systems for tanks and towers

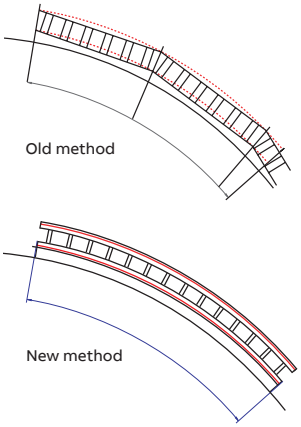
Large-radius cable tray is installed around the outer perimeter of catwalks and stairs that are mounted on a petrochemical tank or vessel. These complete, custom cable tray systems reduce the costly and labor-intensive modifications required to assemble standard cable tray straight sections, splice plates and accessories to fit your tank or vessel. Large-radius cable tray is mounted with no extra cutting, set up or surplus material. What's more, with the option of pre-assembling this system prior to erection of the tank or vessel, you can drastically reduce installation time.

Features and benefits

- No mitered joints or bent splice plates
- Faster, easier and less costly to install
- Results in improved functionality and cleaner lines for better aesthetics

Information required for quotation

- Height of cable tray (in.)
- Width of cable tray (in.)
- Rung spacing (in.)
- Load rating and support span (lb/ft. or kg/m)
- Radius of tank or vessel (in.)
- Clearance distance (in.)
- Quantity required (number of segments) or total arc length measured on structure (in.)



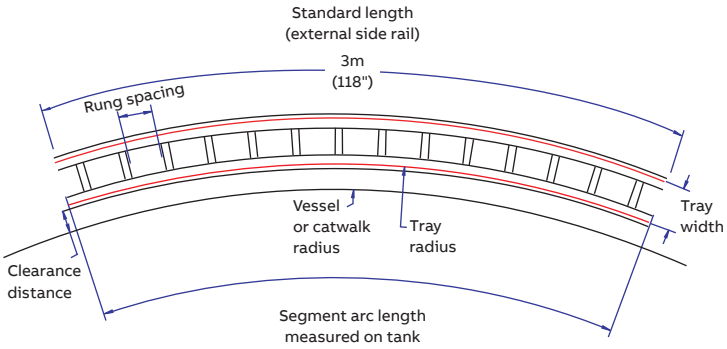


ABB Installation Products Ltd.
Electrification business
700 Thomas Avenue
Saint-Jean-sur-Richelieu, Quebec J2X 2M9
Tel.: +1 (450) 347 5318
Toll Free: +1 (800) 362 2952
Fax: +1 (450) 347 1976

tnb.ca.abb.com

GID#: 9AKK107492A2333 19MC02-100