Emerald
Steel Industries L.L.C

We are proud to introduce ourselves as one of the very reputed company, executing very prominent projects in and around UAE

Cable Tray Catalogue

www.cabletrayuae.com

Company Profile

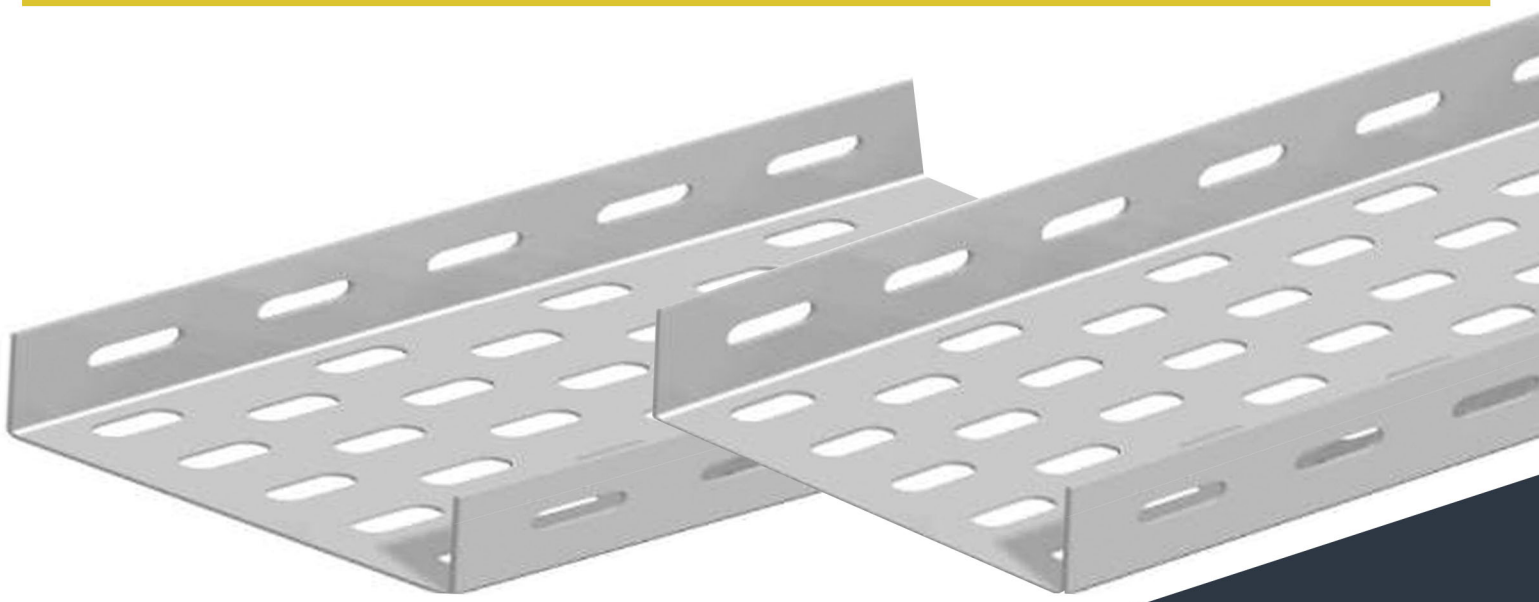
Emerald Steel Industries LLC based in Ajman UAE , are the leading manufacturer and suppliers of cable management systems in the UAE, Africa and Middle East countries such as Oman, Kuwait, Qatar, Saudi Arabia, Iran, Iraq etc. We manufacture all types of cable management systems . Our products include cable trays, ladders, trunking, flush floor trunking, under floor trunking, service outlet box and strut- systems.

We have a proven track record of supplying to prestigious oil & gas projects in UAE and the middle east region including high-end clients. As an ISO 9001 certified listed company, Emerald Steel Industries LLC consider quality as our first priority in each stage of production . We have been exporting to various Middle East and African countries since longtime such as Oman ,Qatar,SaudiArabia,Kuwait,Bahrain, Nigeria, Kenya, Uganda, Mauritius, Africa, Morocco, Algeria, Syria, Jordan,Iran & Iraq

A cable tray system is an assembly of metallic cable tray sections and accessories, that forms a rigid structural system to support cables.
MANUFACTURED FROM MILD STEEL
COMPLYING WITH BS EN 10130 : 2006
HOT DIP GALVANISED AFTER
MANUFACTURE TO BS EN ISO 1460 : 1991
COMPLIES WITH BS EN 61537 : 2000
COMPLIES WITH NEMA STANDARAD 7-14-76

ADVANTAGES OF EMERALD CABLE TRAYS

EMERALD cable tray systems are manufactured in accordance with the precise standards laid down by the National Electrical Manufacturers Association (NEMA}. Thus ensuring standardisation of materials used, as well as load-bearing capacities.
EMERALD STEEL INDUSTRIES L.L.C Produce a complete range of cable trays as an engineered product, on a regular basis.
EMERALD cable tray system offer the following advantages :



- Easy Installation
- Increased cable fill over other wiring method. Thereby saving material costs and installation labour
- Less space utilisation than comparable conduit or other systems
- The metal can be used as an equipment ground conductor
- Easy inspection of cables
- Easy location of faults and quick repair, without replacement of the original cable run
- Cables can be dropped out at any point without expensive boxes or fittings
- cables can instantly be added to existing trays at a later stage

THE NEED FOR A CABLE TRAY SYSTEM

As technology advances, so too does the need for effective support systems. Today plants and buildings are moving more and more towards automation. Requiring complex system of wiring and cable laying.
Old methods of cable management become obsolete under these demanding conditions.

- Regular inspections must be carried out, & faults located
- Many entry/exit points are required
- New cables may need to be installed, and old ones removed
- Ventilation, essential to power and similar cables, must be provided

Today cable trays have become a necessary part of industrial and commercial construction by offering quick, economical and flexible solutions to these problems.

Cable trays are capable of supporting all types of wiring:

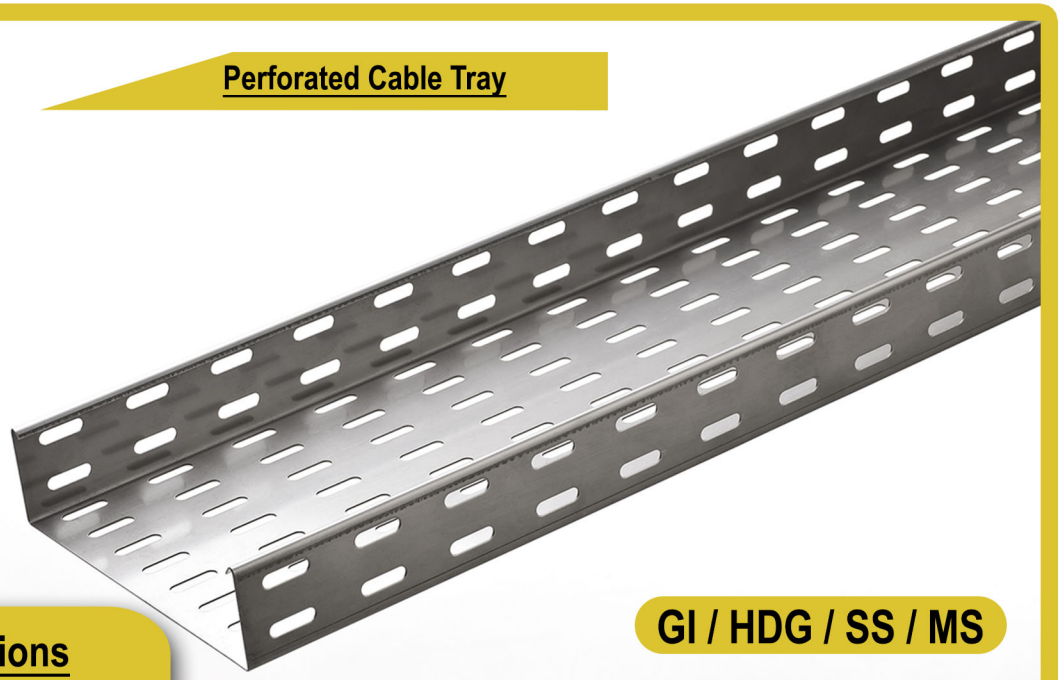
- High Voltage Power Lines
- Power Distribution Cables
- Sensitive Control Wiring
- Telecommunication Wiring
- Optical Cables

EMERALD STEEL INDUSTRIES MANUFACTURES FOUR TYPES OF CABLE TRAYS

-Perforated Type
-Ladder Type
-Solid Bottom Type
-Wire Mesh Type

TYPES OF CABLE TRAYS

Perforated Cable Tray

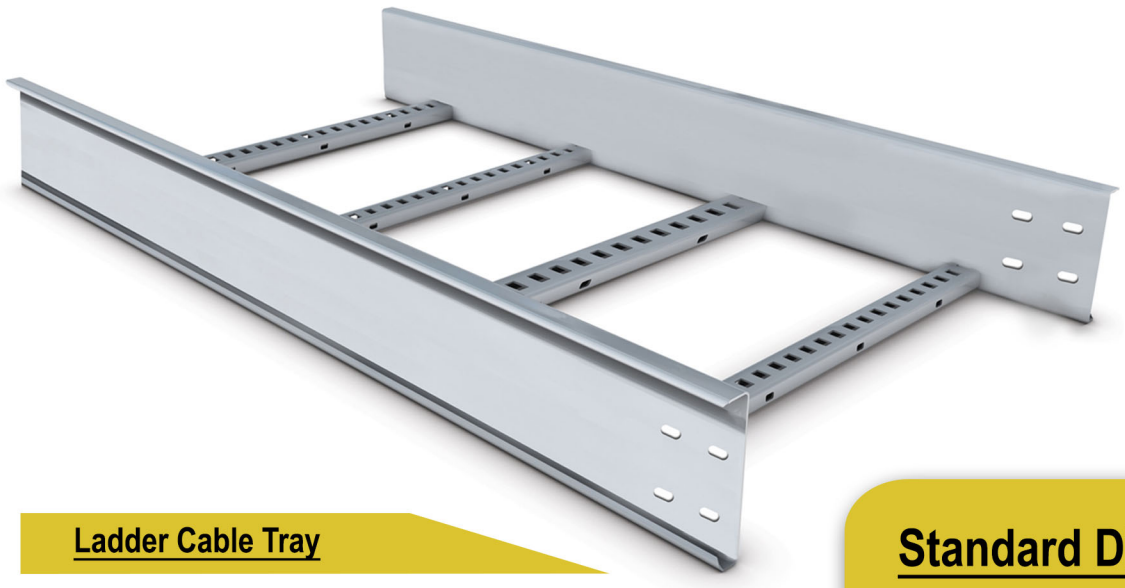


GI / HDG / SS / MS

Standard Dimensions

Length (mm)	2440 ,3000
Depth (mm)	50 , 75 , 100 , 150 , 300
Width (mm)	50 , 75 , 100 , 150 , 300 , 450 , 600 , 750 , 900 , 1200

Ladder Cable Tray

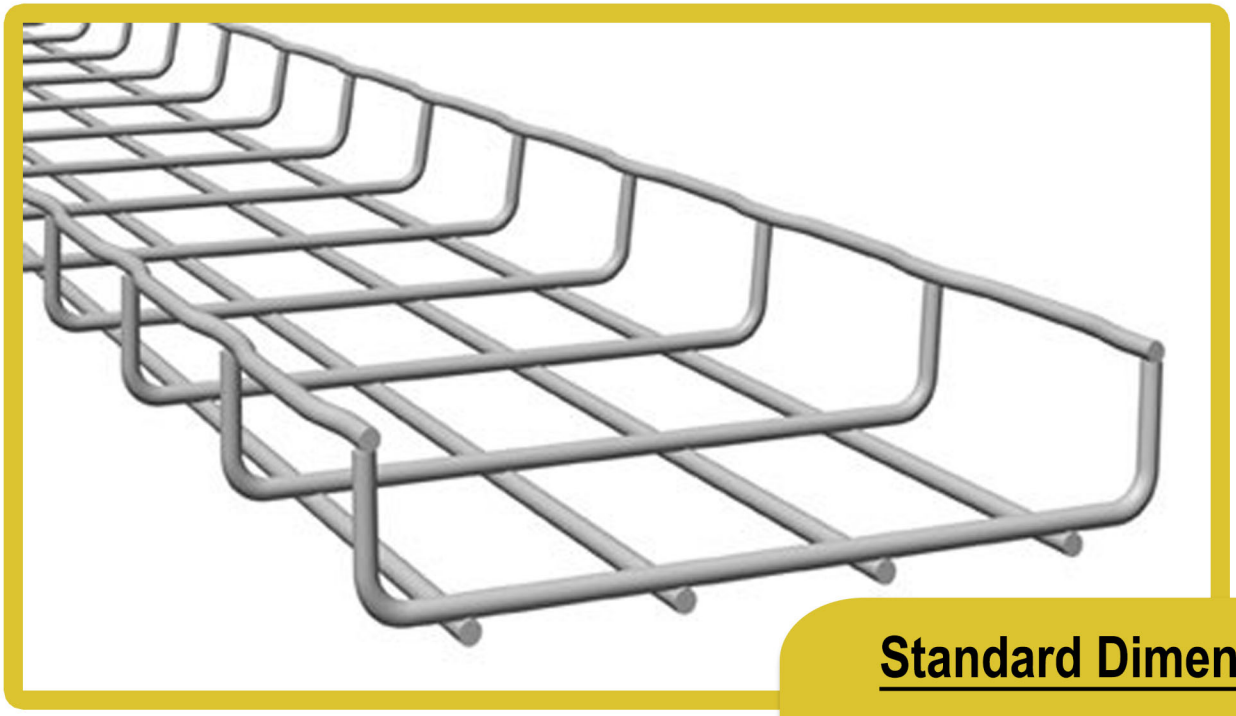


Standard Dimensions

Radius R 300mm

Width (mm)	100 ,150 , 300 , 450 , 600 , 750 , 900
Length (mm)	900 , 950 , 1100 , 1250,1400,1550,1700
Breadth (mm)	500 , 550 , 700 , 850 , 1000,1150,1300

WIRE MESH CABLE TRAY



Standard Dimensions

Length (mm) 2440 ,3000

Depth (mm) 50 , 75 , 100 , 150 , 300

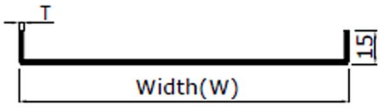
Width (mm) 50 , 75 , 100 , 150 , 300 , 450 , 600 , 750 , 900 , 1200

TYPES OF CABLE TRAYS

Emerald Cable Tray System

Cable Tary

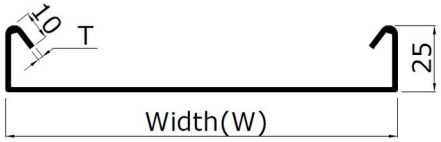
Light Duty - Height 15mm



Product	Width	Thickness
ESI-LD50/3/(T)/HG	50	1.0 - 2.0
ESI-LD100/3/(T)/HG	100	1.0 - 2.0
ESI-LD150/3/(T)/HG	150	1.0 - 2.0
ESI-LD225/3/(T)/HG	225	1.2 - 2.0
ESI-LD300/3/(T)/HG	300	1.2 - 2.0
ESI-LD450/3/(T)/HG	450	1.5 - 2.0
ESI-LD600/3/(T)/HG	600	1.5 - 2.0
ESI-LD750/3/(T)/HG	750	2.0
ESI-LD900/3/(T)/HG	900	2.0

Standard Length: 3000 mm / T=(Thickness)

Medium Duty - Height 25mm



Product	Width	Thickness
ESI-MD50/3/(T)/HG	50	1.0 - 2.0
ESI-MD100/3/(T)/HG	100	1.0 - 2.0
ESI-MD150/3/(T)/HG	150	1.0 - 2.0
ESI-MD225/3/(T)/HG	225	1.2 - 2.0
ESI-MD300/3/(T)/HG	300	1.2 - 2.0
ESI-MD450/3/(T)/HG	450	1.5 - 2.0
ESI-MD600/3/(T)/HG	600	1.5 - 2.0
ESI-MD750/3/(T)/HG	750	2.0
ESI-MD900/3/(T)/HG	900	2.0

Standard Length: 3000 mm / T=(Thickness)

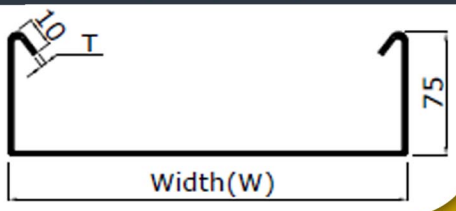
Heavy Duty - Height 50mm

Product	Width	Thickness
ESI-HD50/3/(T)/HG	50	1.0 - 2.0
ESI-HD100/3/(T)/HG	100	1.0 - 2.0
ESI-HD150/3/(T)/HG	150	1.0 - 2.0
ESI-HD225/3/(T)/HG	225	1.2 - 2.0
ESI-HD300/3/(T)/HG	300	1.2 - 2.0
ESI-HD450/3/(T)/HG	450	1.5 - 2.0
ESI-HD600/3/(T)/HG	600	1.5 - 2.0
ESI-HD750/3/(T)/HG	750	2.0
ESI-HD900/3/(T)/HG	900	2.0

Standard Length: 3000 mm / T=(Thickness)

Cable Tary

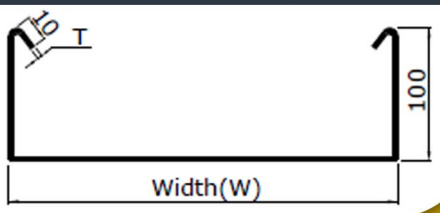
Extra Heavy Duty - Height 75mm



Product	Width	Thickness
ESI-HD75/75/(T)/HG	50	1.0 - 2.0
ESI-HD100/75/(T)/HG	100	1.0 - 2.0
ESI-HD150/75/(T)/HG	150	1.0 - 2.0
ESI-HD225/75/(T)/HG	225	1.2 - 2.0
ESI-HD300/75/(T)/HG	300	1.2 - 2.0
ESI-HD450/75/(T)/HG	450	1.5 - 2.0
ESI-HD600/75/(T)/HG	600	1.5 - 2.0
ESI-HD750/75/(T)/HG	750	2.0
ESI-HD900/75/(T)/HG	900	2.0

Standard Length: 3000 mm / T=(Thickness)

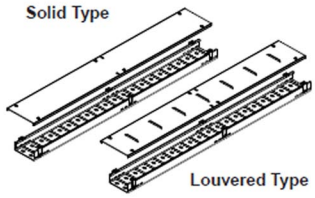
Extra Heavy Duty - Height 100mm



Product	Width	Thickness
ESI-HD100/10/(T)/HG	100	1.0 - 2.0
ESI-HD150/10/(T)/HG	150	1.0 - 2.0
ESI-HD225/10/(T)/HG	225	1.2 - 2.0
ESI-HD300/10/(T)/HG	300	1.2 - 2.0
ESI-HD450/10/(T)/HG	450	1.5 - 2.0
ESI-HD600/10/(T)/HG	600	2.0
ESI-HD750/10/(T)/HG	750	2.0
ESI-HD900/10/(T)/HG	900	2.0

Standard Length: 3000 mm / T=(Thickness)

Covers for All Types of Cable Tray



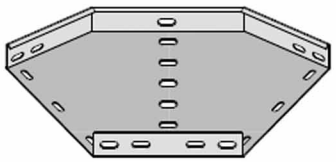
ESI-HD50/3/(T)/HG	50	1.0 - 2.0
ESI-HD100/3/(T)/HG	100	1.0 - 2.0
ESI-HD150/3/(T)/HG	150	1.0 - 2.0
ESI-HD225/3/(T)/HG	225	1.2 - 2.0
ESI-HD300/3/(T)/HG	300	1.2 - 2.0
ESI-HD450/3/(T)/HG	450	1.5 - 2.0
ESI-HD600/3/(T)/HG	600	1.5 - 2.0
ESI-HD750/3/(T)/HG	750	2.0
ESI-HD900/3/(T)/HG	900	2.0

Standard Length: 3000 mm / T=(Thickness)

Emerald - TRAY ACCESSORIES

90° Flat Bend

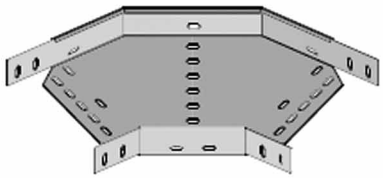
Medium Duty - Height 25mm



Product	Width
ESI-MFB90-50/(T)/HG	50
ESI-MFB90-100/(T)/HG	100
ESI-MFB90-150/(T)/HG	150
ESI-MFB90-225/(T)/HG	225
ESI-MFB90-300/(T)/HG	300
ESI-MFB90-450/(T)/HG	450
ESI-MFB90-600/(T)/HG	600
ESI-MFB90-750/(T)/HG	750
ESI-MFB90-900/(T)/HG	900

Standard Length: 3000 mm / T=(Thickness)

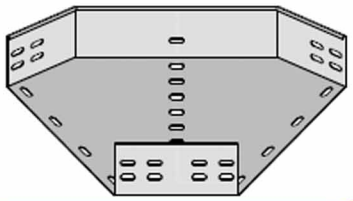
Heavy Duty - Height 50mm



Product	Width
ESI-HFB90-50/(T)/HG	50
ESI-HFB90-100/(T)/HG	100
ESI-HFB90-150/(T)/HG	150
ESI-HFB90-225/(T)/HG	225
ESI-HFB90-300/(T)/HG	300
ESI-HFB90-450/(T)/HG	450
ESI-HFB90-600/(T)/HG	600
ESI-HFB90-750/(T)/HG	750
ESI-HFB90-900/(T)/HG	900

Standard Length: 3000 mm / T=(Thickness)

Extra Heavy Duty - Height 75 / 100mm

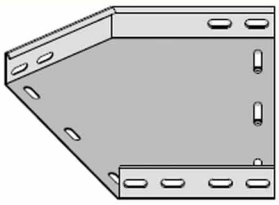


Product	Width
ESI-LD50/3/(T)/HG	50
ESI-LD100/3/(T)/HG	100
ESI-LD150/3/(T)/HG	150
ESI-LD225/3/(T)/HG	225
ESI-LD300/3/(T)/HG	300
ESI-LD450/3/(T)/HG	450
ESI-LD600/3/(T)/HG	600
ESI-LD750/3/(T)/HG	750
ESI-LD900/3/(T)/HG	900

T= (Thickness) / Standard Thickness 1.5 & 2.0mm
* Insert 75 for 75mm & 10 for 100mm Height

45° Flat Bend

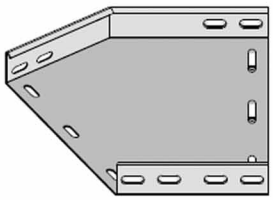
Medium Duty - Height 25mm



Product	Width
ESI-MFB45-50/(T)/HG	50
ESI-MFB45-100/(T)/HG	100
ESI-MFB45-150/(T)/HG	150
ESI-MFB45-225/(T)/HG	225
ESI-MFB45-300/(T)/HG	300
ESI-MFB45-450/(T)/HG	450
ESI-MFB45-600/(T)/HG	600
ESI-MFB45-750/(T)/HG	750
ESI-MFB45-900/(T)/HG	900

Standard Length: 3000 mm / T=(Thickness)

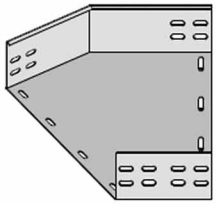
Heavy Duty - Height 50mm



Product	Width
ESI-HFB45-50/(T)/HG	50
ESI-HFB45-100/(T)/HG	100
ESI-HFB45-150/(T)/HG	150
ESI-HFB45-225/(T)/HG	225
ESI-HFB45-300/(T)/HG	300
ESI-HFB45-450/(T)/HG	450
ESI-HFB45-600/(T)/HG	600
ESI-HFB45-750/(T)/HG	750
ESI-HFB45-900/(T)/HG	900

Standard Length: 3000 mm / T=(Thickness)

Extra Heavy Duty - Height 75 / 100mm



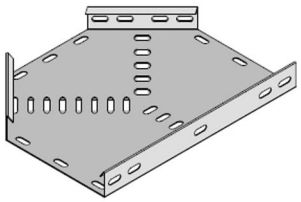
Product	Width
ESI-HFB45-75/(*)/(T)/HG	50
ESI-HFB45-100/(*)/(T)/HG	100
ESI-HFB45-150/(*)/(T)/HG	150
ESI-HFB45-225/(*)/(T)/HG	225
ESI-HFB45-300/(*)/(T)/HG	300
ESI-HFB45-450/(*)/(T)/HG	450
ESI-HFB45-600/(*)/(T)/HG	600
ESI-HFB45-750/(*)/(T)/HG	750
ESI-HFB45-900/(*)/(T)/HG	900

T= (Thickness) / Standard Thickness 1.5 & 2.0mm
* Insert 75 for 75mm & 10 for 100mm Height

Emerald - TRAY ACCESSORIES

Equal Tee

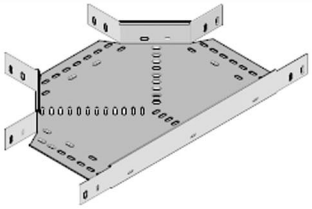
Medium Duty - Height 25mm



Product	Width
ESI-MET-50/(T)/HG	50
ESI-MET-100/(T)/HG	100
ESI-MET-150/(T)/HG	150
ESI-MET-225/(T)/HG	225
ESI-MET-300/(T)/HG	300
ESI-MET-450/(T)/HG	450
ESI-MET-600/(T)/HG	600
ESI-MET-750/(T)/HG	750
ESI-MET-900/(T)/HG	900

Standard Length: 3000 mm / T=(Thickness)

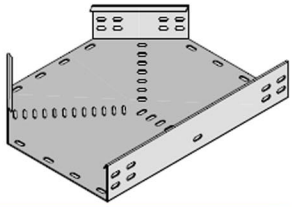
Heavy Duty - Height 50mm



Product	Width
ESI-HET-50/(T)/HG	50
ESI-HET-100/(T)/HG	100
ESI-HET-150/(T)/HG	150
ESI-HET-225/(T)/HG	225
ESI-HET-300/(T)/HG	300
ESI-HET-450/(T)/HG	450
ESI-HET-600/(T)/HG	600
ESI-HET-750/(T)/HG	750
ESI-HET-900/(T)/HG	900

Standard Length: 3000 mm / T=(Thickness)

Extra Heavy Duty - Height 75 / 100mm

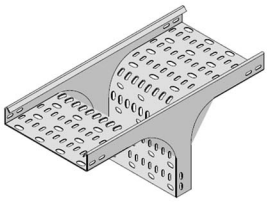


Product	Width
ESI-HET-75/(*)/(T)/HG	75
ESI-HET-100/(*)/(T)/HG	100
ESI-HET-150/(*)/(T)/HG	150
ESI-HET-225/(*)/(T)/HG	225
ESI-HET-300/(*)/(T)/HG	300
ESI-HET-450/(*)/(T)/HG	450
ESI-HET-600/(*)/(T)/HG	600
ESI-HET-750/(*)/(T)/HG	750
ESI-HET-900/(*)/(T)/HG	900

T= (Thickness) / Standard Thickness 1.5 & 2.0mm
* Insert 75 for 75mm & 10 for 100mm Height

Vertical Tee

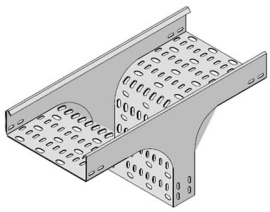
Medium Duty - Height 25mm



Product	Width
ESI-MVT-50/(T)/HG	50
ESI-MVT-100/(T)/HG	100
ESI-MVT-150/(T)/HG	150
ESI-MVT-225/(T)/HG	225
ESI-MVT-300/(T)/HG	300
ESI-MVT-450/(T)/HG	450
ESI-MVT-600/(T)/HG	600
ESI-MVT-750/(T)/HG	750
ESI-MVT-900/(T)/HG	900

Standard Length: 3000 mm / T=(Thickness)

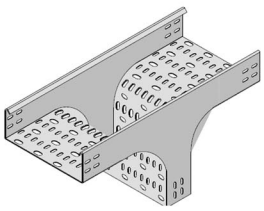
Heavy Duty - Height 50mm



Product	Width
ESI-HVT-50/(T)/HG	50
ESI-HVT-100/(T)/HG	100
ESI-HVT-150/(T)/HG	150
ESI-HVT-225/(T)/HG	225
ESI-HVT-300/(T)/HG	300
ESI-HVT-450/(T)/HG	450
ESI-HVT-600/(T)/HG	600
ESI-HVT-750/(T)/HG	750
ESI-HVT-900/(T)/HG	900

Standard Length: 3000 mm / T=(Thickness)

Extra Heavy Duty - Height 75 / 100mm



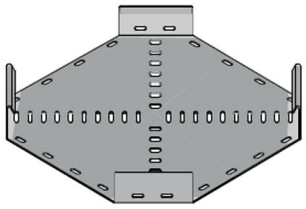
Product	Width
ESI-HVT-75/(*)/(T)/HG	50
ESI-HVT-100/(*)/(T)/HG	100
ESI-HVT-150/(*)/(T)/HG	150
ESI-HVT-225/(*)/(T)/HG	225
ESI-HVT-300/(*)/(T)/HG	300
ESI-HVT-450/(*)/(T)/HG	450
ESI-HVT-600/(*)/(T)/HG	600
ESI-HVT-750/(*)/(T)/HG	750
ESI-HVT-900/(*)/(T)/HG	900

T= (Thickness) / Standard Thickness 1.5 & 2.0mm
* Insert 75 for 75mm & 10 for 100mm Height

Emerald - TRAY ACCESSORIES

Equal Cross

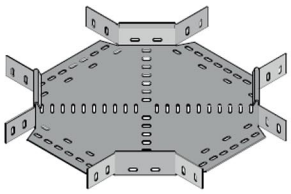
Medium Duty - Height 25mm



Product	Width
ESI-MEC-50/(T)/HG	50
ESI-MEC-100/(T)/HG	100
ESI-MEC-150/(T)/HG	150
ESI-MEC-225/(T)/HG	225
ESI-MEC-300/(T)/HG	300
ESI-MEC-450/(T)/HG	450
ESI-MEC-600/(T)/HG	600
ESI-MEC-750/(T)/HG	750
ESI-MEC-900/(T)/HG	900

Standard Length: 3000 mm / T=(Thickness)

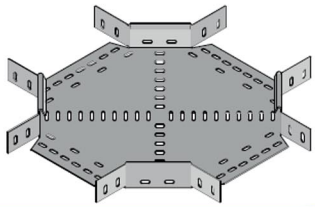
Heavy Duty - Height 50mm



Product	Width
ESI-HEC-50/(T)/HG	50
ESI-HEC-100/(T)/HG	100
ESI-HEC-150/(T)/HG	150
ESI-HEC-225/(T)/HG	225
ESI-HEC-300/(T)/HG	300
ESI-HEC-450/(T)/HG	450
ESI-HEC-600/(T)/HG	600
ESI-HEC-750/(T)/HG	750
ESI-HEC-900/(T)/HG	900

Standard Length: 3000 mm / T=(Thickness)

Extra Heavy Duty - Height 75 / 100mm

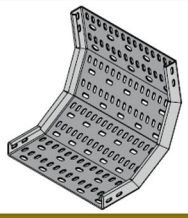


Product	Width
ESI-HEC-75/(*)/(T)/HG	75
ESI-HEC-100/(*)/(T)/HG	100
ESI-HEC-150/(*)/(T)/HG	150
ESI-HEC-225/(*)/(T)/HG	225
ESI-HEC-300/(*)/(T)/HG	300
ESI-HEC-450/(*)/(T)/HG	450
ESI-HEC-600/(*)/(T)/HG	600
ESI-HEC-750/(*)/(T)/HG	750
ESI-HEC-900/(*)/(T)/HG	900

T= (Thickness) / Standard Thickness 1.5 & 2.0mm
* Insert 75 for 75mm & 10 for 100mm Height

Inside Riser 90° / 45°

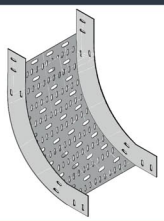
Medium Duty - Height 25mm



Product	Width
ESI-MIR(*)-50/(T)/HG	50
ESI-MIR(*)-100/(T)/HG	100
ESI-MIR(*)-150/(T)/HG	150
ESI-MIR(*)-225/(T)/HG	225
ESI-MIR(*)-300/(T)/HG	300
ESI-MIR(*)-450/(T)/HG	450
ESI-MIR(*)-600/(T)/HG	600
ESI-MIR(*)-750/(T)/HG	750
ESI-MIR(*)-900/(T)/HG	900

T= (Thickness) / Standard Thickness 1.5 & 2.0mm
*Insert 90 for 90° / 45 for 45° Riser

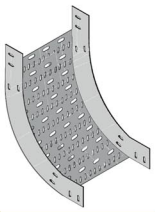
Heavy Duty - Height 50mm



Product	Width
ESI-HIR(*)-50/(T)/HG	50
ESI-HIR(*)-100/(T)/HG	100
ESI-HIR(*)-150/(T)/HG	150
ESI-HIR(*)-225/(T)/HG	225
ESI-HIR(*)-300/(T)/HG	300
ESI-HIR(*)-450/(T)/HG	450
ESI-HIR(*)-600/(T)/HG	600
ESI-HIR(*)-750/(T)/HG	750
ESI-HIR(*)-900/(T)/HG	900

T= (Thickness) / Standard Thickness 1.5 & 2.0mm
*Insert 90 for 90° / 45 for 45° Riser

Extra Heavy Duty - Height 75 / 100mm



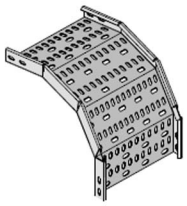
Product	Width
ESI-HIR(*)-75/(**)/(T)/HG	75
ESI-HIR(*)-100/(**)/(T)/HG	100
ESI-HIR(*)-150/(**)/(T)/HG	150
ESI-HIR(*)-225/(**)/(T)/HG	225
ESI-HIR(*)-300/(**)/(T)/HG	300
ESI-HIR(*)-450/(**)/(T)/HG	450
ESI-HIR(*)-600/(**)/(T)/HG	600
ESI-HIR(*)-750/(**)/(T)/HG	750
ESI-HIR(*)-900/(**)/(T)/HG	900

T= (Thickness) / Standard Thickness 1.5 & 2.0mm
*Insert 90 for 90° / 45 for 45° Riser
* Insert 75 for 75mm & 10 for 100mm Height

Emerald - TRAY ACCESSORIES

Outside Riser 90° / 45°

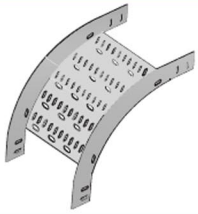
Medium Duty - Height 25mm



Product	Width
ESI-MOR(*)-50/(T)/HG	50
ESI-MOR(*)-100(T)/HG	100
ESI-MOR(*)-100/(T)/HG	150
ESI-MOR(*)-225/(T)/HG	225
ESI-MOR(*)-300/(T)/HG	300
ESI-MOR(*)-450/(T)/HG	450
ESI-MOR(*)-600/(T)/HG	600
ESI-MOR(*)-750/(T)/HG	750
ESI-MOR(*)-900/(T)/HG	900

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm
*Insert 90 for 90° / 45 for 45° Riser

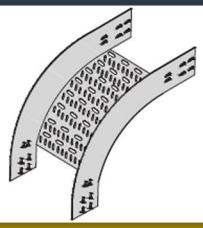
Heavy Duty - Height 50mm



Product	Width
ESI-HOR(*)-50/(T)/HG	50
ESI-HOR(*)-100/(T)/HG	100
ESI-HOR(*)-150/(T)/HG	150
ESI-HOR(*)-225/(T)/HG	225
ESI-HOR(*)-300/(T)/HG	300
ESI-HOR(*)-450/(T)/HG	450
ESI-HOR(*)-600/(T)/HG	600
ESI-HOR(*)-750/(T)/HG	750
ESI-HOR(*)-900/(T)/HG	900

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm
*Insert 90 for 90° / 45 for 45° Riser

Extra Heavy Duty - Height 75 / 100mm

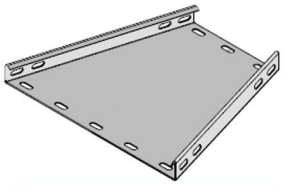


Product	Width
ESI-HOR(*)-75/(**)/(T)/HG	75
ESI-HOR(*)-100/(**)/(T)/HG	100
ESI-HOR(*)-150/(**)/(T)/HG	150
ESI-HOR(*)-225/(**)/(T)/HG	225
ESI-HOR(*)-300/(**)/(T)/HG	300
ESI-HOR(*)-450/(**)/(T)/HG	450
ESI-HOR(*)-600/(**)/(T)/HG	600
ESI-HOR(*)-750/(**)/(T)/HG	750
ESI-HOR(*)-900/(**)/(T)/HG	900

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm
*Insert 90 for 90° / 45 for 45° Riser
** Insert 75 for 75mm & 10 for 100mm Height

Straight Reducer

Medium Duty - Height 25mm

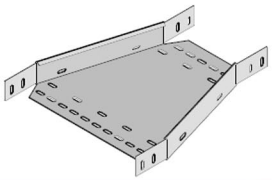


Product

ESI-MSR(W1)-(W2)/(T)/HG

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm

Heavy Duty - Height 50mm

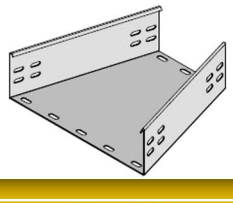


Product

ESI-HSR(W1)-(W2)/(T)/HG

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm

Extra Heavy Duty - Height 75 / 100mm



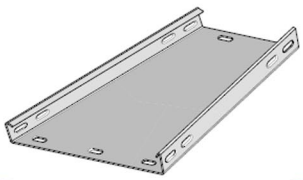
Product

ESI-HSR(W1)-(W2)/(*)/(T)/HG

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm
** Insert 75 for 75mm & 10 for 100mm Height

Left Hand Reducer

Medium Duty - Height 25mm

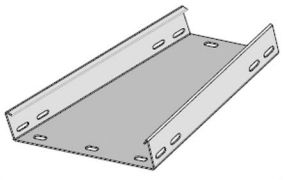


Product

ESI-MLR(W1)-(W2)/(T)/HG

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm

Heavy Duty - Height 50mm

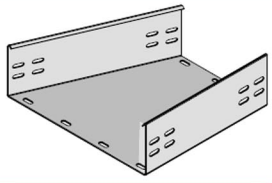


Product

ESI-HLR(W1)-(W2)/(T)/HG

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm

Extra Heavy Duty - Height 75 / 100mm



Product

ESI-HLR(W1)-(W2)/(*)/(T)/HG

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm
** Insert 75 for 75mm & 10 for 100mm Height

Emerald - TRAY ACCESSORIES

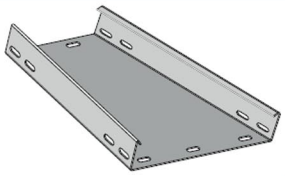
Right Hand Reducer

Medium Duty - Height 25mm

Product
ESI-MRR(W1)-(W2)/(T)/HG

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm

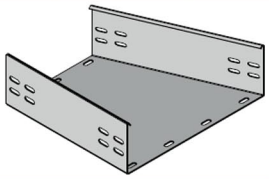
Heavy Duty - Height 50mm



Product
ESI-HRR(W1)-(W2)/(T)/HG

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm

Extra Heavy Duty - Height 75 / 100mm

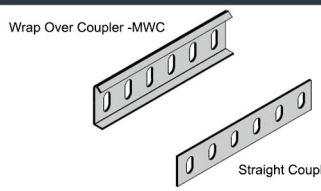


Product
ESI-HRR(W1)-(W2)/(*)/(T)/HG

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm
** Insert 75 for 75mm & 10 for 100mm Height

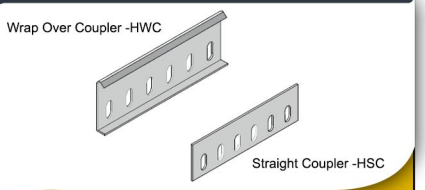
Couplers

Medium Duty - Height 25mm



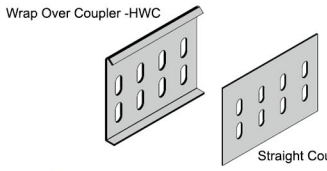
Product	
ESI-MWC	Wrap Over Coupler
ESI-MSC	Straight Coupler

Heavy Duty - Height 50mm



Product	
ESI-HWC	Wrap Over Coupler
ESI-HSC	Straight Coupler

Extra Heavy Duty - Height 75 / 100mm

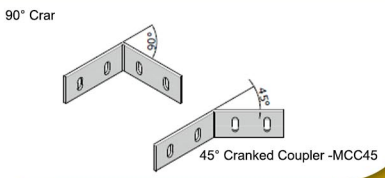


Product	
ESI-HWC/(*)	Wrap Over Coupler
ESI-HSC/(*)	Straight Coupler

T= (Thickness)/ Standard Thickness 1.5 & 2.0mm
** Insert 75 for 75mm & 10 for 100mm Height

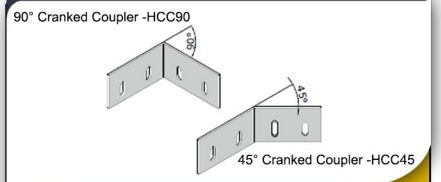
Cranked Couplers

Medium Duty - Height 25mm



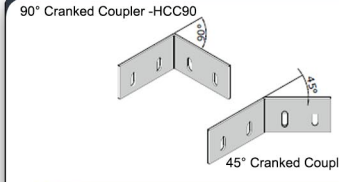
Product	
ESI-MCC90	Wrap Over Coupler
ESI-MCC45	Straight Coupler

Heavy Duty - Height 50mm



Product	
ESI-HCC90	90° Cranked Coupler
ESI-HCC45	45° Cranked Coupler

Extra Heavy Duty - Height 75 / 100mm



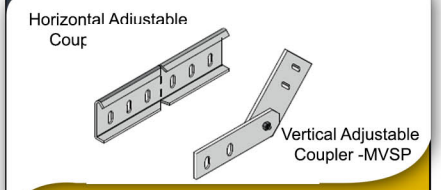
Product	
ESI-HCC90/*	90° Cranked Coupler
ESI-HCC45/*	45° Cranked Coupler

* Insert 75 for 75mm & 10 for 100mm Height

Emerald - TRAY ACCESSORIES

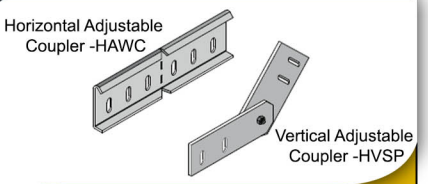
Horizontal / Vertical Adjustable Couplers

Medium Duty - Height 25mm



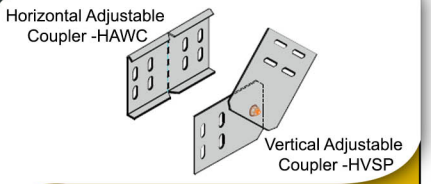
Product	
ESI-MAWC	Horizontal Adjustable Wrapover Coupler
ESI-MVSP	Vertical Adjustable Coupler

Heavy Duty - Height 50mm



Product	
ESI-HWC	Horizontal Adjustable Wrapover Coupler
ESI-HSC	Vertical Adjustable Coupler

Extra Heavy Duty - Height 75 / 100mm

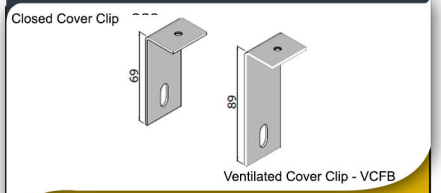


Product	
ESI-HWC/(*)	Horizontal Adjustable Wrapover Coupler
ESI-HSC/(*)	Vertical Adjustable Coupler

* Insert 75 for 75mm & 10 for 100mm Height

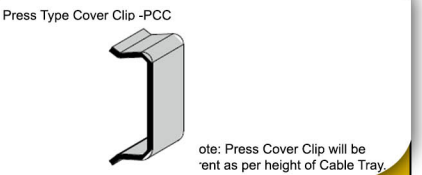
Cover Clips

Cover Clip



Product	
ESI-CCS	Closed Cover Clip for Cover
ESI-VCFB	Ventilated Cover Clip for Cover

Press Type Cover Clip



Product	
ESI-PCC/*	Press Type Cover Clip for Cover

*Insert 25 for 25mm, 50 for 50mm,
75 for 75mm & 10 for 100mm Height Tray.

Hold Down Bracket

Product
ESI-HHDB (*)

*Insert 25 for 25mm, 50 for 50mm,
75 for 75mm & 10 for 100mm Height Tray.

Earth Braid for Cable Tray

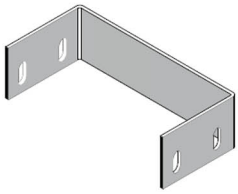
Product
ESI-EB-100

Description: Earth Braid
6mm² x 110mm x 6mm End Lugs

Cover Clip Fixing Arrangement

1 Self Tapping Screw
2 Cable Tray Cover
3 Closed Cover Fixing Bracket (CT-CCS)
4 Roofing Bolt & Hex. Nut. (HW-RB/M6x16)
5 Cable Tray

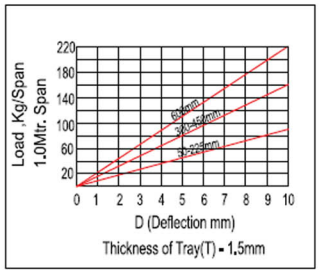
Extra Heavy Duty - Height 75 / 100mm

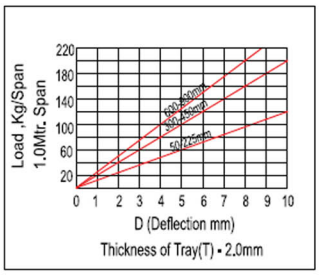


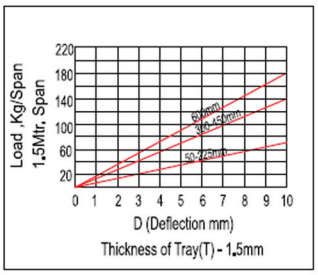
Product	Width
ESI-BE-50/(*)/(T)/HG	
ESI-BE-100/(*)/(T)/HG	
ESI-BE-150/(*)/(T)/HG	
ESI-BE-225/(*)/(T)/HG	
ESI-BE-300/(*)/(T)/HG	
ESI-BE-450/(*)/(T)/HG	
ESI-BE-600/(*)/(T)/HG	
ESI-BE-750/(*)/(T)/HG	
ESI-BE-900/(*)/(T)/HG	

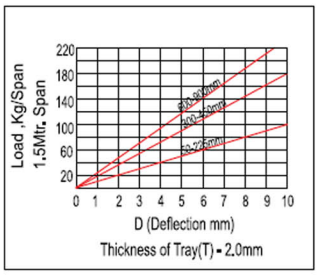
*Insert 25 for 25mm, 50 for 50mm,
75 for 75mm & 10 for 100mm Height Tray.

Heavy Duty TrayLoad



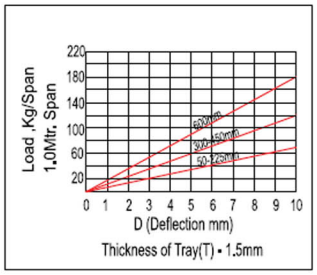


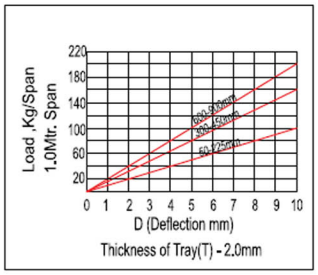


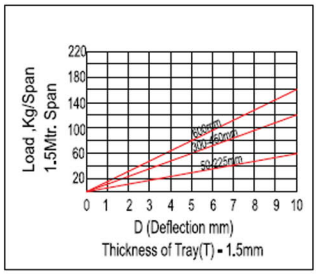


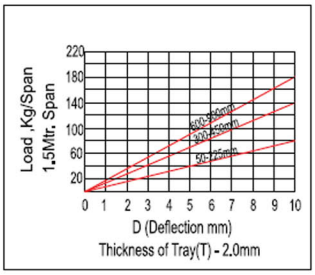
Load table loads are based on a UNIFORMLY DISTRIBUTED LOAD (UDL) across the full width and length of the Tray.All loads are based on Mild Steel Trays.

Medium Duty TrayLoad



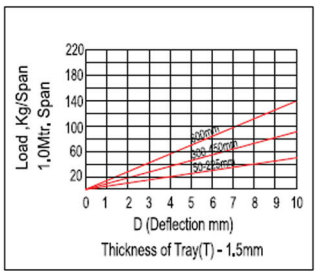


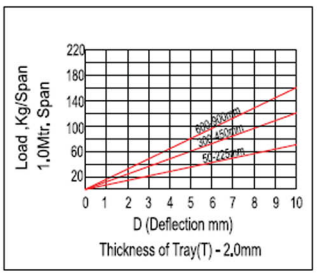


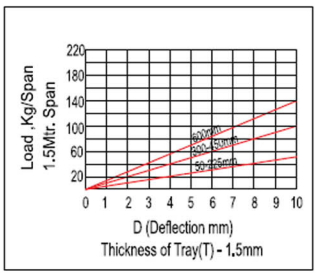


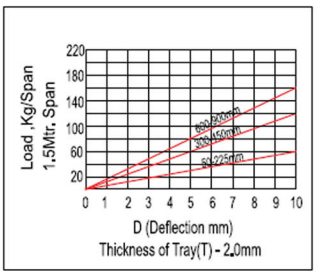
TrayLoad table loads are based on a UNIFORMLY DISTRIBUTED LOAD (UDL) across the full width and length of the Tray.All loads are based on Mild Steel Trays.

Light Duty TrayMedium

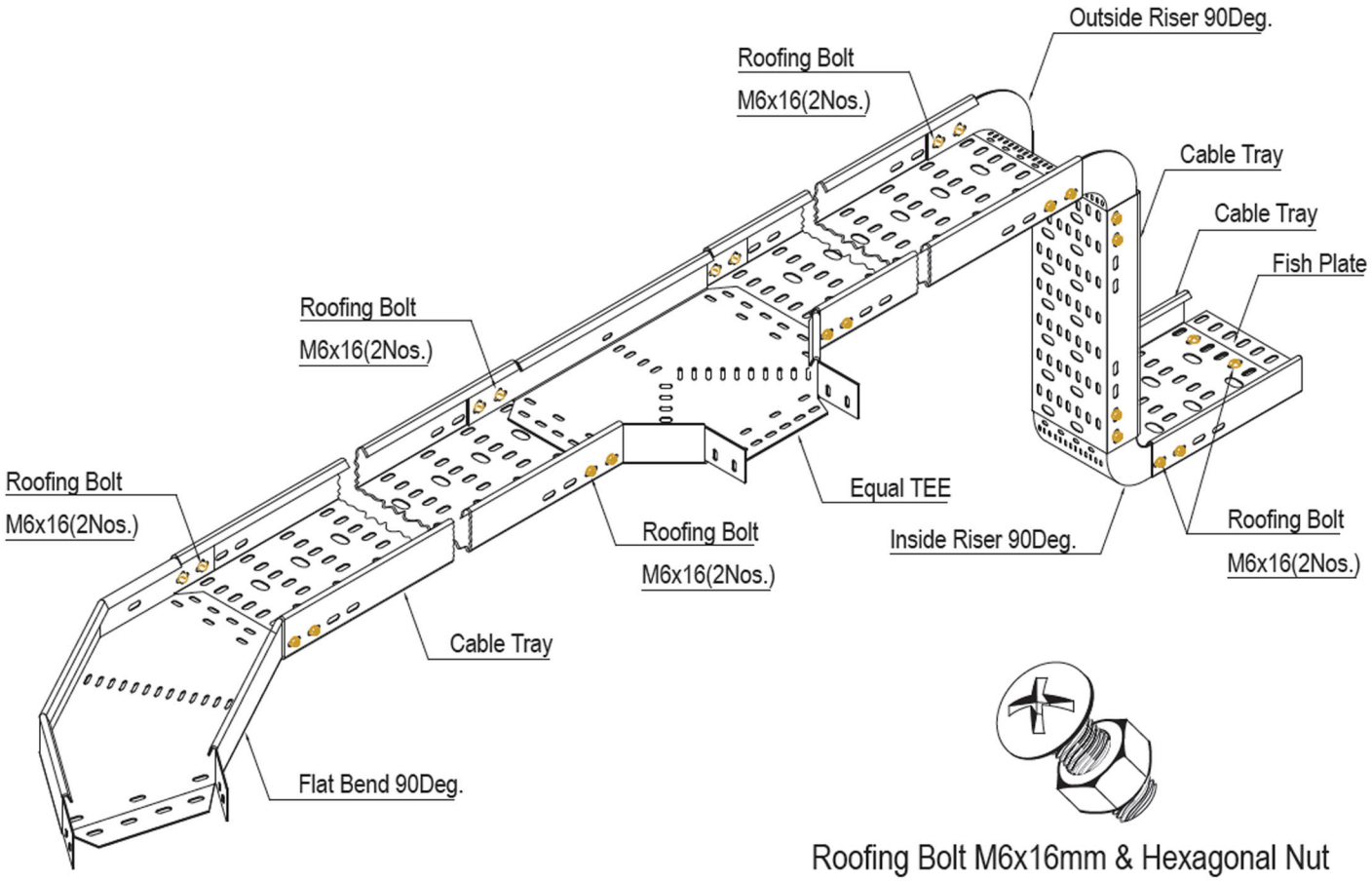




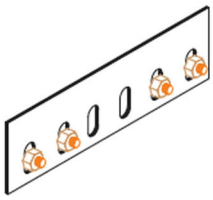




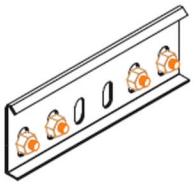
TrayLoad table loads are based on a UNIFORMLY DISTRIBUTED LOAD (UDL) across the full width and length of the Tray.All loads are based on Mild Steel Trays.



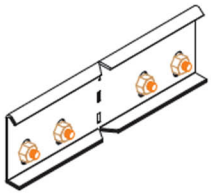
Roofing Bolt M6x16mm & Hexagonal Nut



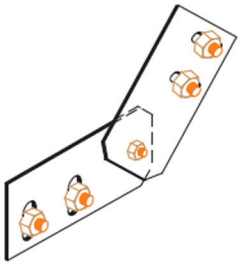
Straight Coupler
Roofing Bolt M6x16mm & Nut - 4 Nos.



Wrapover Coupler
Roofing Bolt M6x16mm & Nut - 4 Nos.



Horizontal Splice Plate
Roofing Bolt M6x16mm & Nut - 4 Nos.



Vertical Splice Plate
Roofing Bolt M6x16mm & Nut - 5 Nos.

MATERIALS AND FINISHES

FITTINGS

Fittings are sections of cable trays which are joined to other cable trays sections for the purpose of changing the direction, elevation or width of the cable run. All fittings are available in sizes and types corresponding to the straight cable tray sections.

Elbows - Horizontal and vertical elbows enable directional and elevational changes, respectively.
Horizontal Tee - These join cable tray sections in three directions at 90 degree angles.
Horizontal Cross - Same as "Tee" except in four directions at 90 degree angles.
Reducers - These join cable trays of different widths in the same plane.

COVERS

Covers act as an additional safeguard, providing shelter from sunlight dirt accumulation and accidental contact. They also isolate cables from fires and radio frequency interference. Available in solid top or louvered top.

CONSTRUCTION ACCESSORIES

EMERALD STEEL INDUSTRY manufactures all construction accessories to enable on site installation of cable tray systems. These include splice plate connectors,channels, clamps brackets and hangers.

SPECIFIC REQUIREMENTS

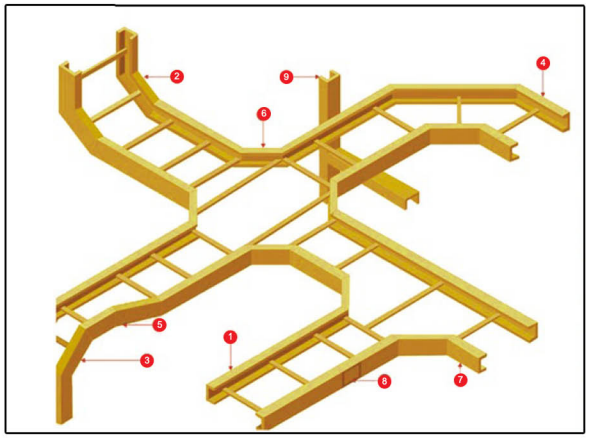
Other types of cable trays and fittings can be supplied to meet specific requirements.

FRP Cable Management

Composites are gaining more popularity than the traditional materials due to their several benefits and durable performance in challenging environments. In the area of cable management. Emerald can offer a versatile range of solutions, from standard product range to customer-tailored solutions.

Fiberglass Cable Tray Assembly System

1. Straight Run
2. 90° Inside Vertical Bend
3. 90° Outside Vertical Bend
4. 90° Horizontal Bend
5. Left Hand Reducer
6. Horizontal Cross
7. Horizontal Tee
8. Splice Plate For Joining



THE SUPERIOR FEATURES OF EMERALD COMPOSITE CABLE TAYS

- Corrosion free
- High load carrying capacity even with long spans
- Light weight, easy to install
- Electrically insulating
- Complete system
- Fire Resistance
- Accessibility for future
- Space efficiency
- Versatile
- UV stabilities

Quality & Consistency

Emerald product performance is consistent and reliable as all the products go through comprehensive programs of quality control in a world-class testing laboratory.

Engineering & Design Assistance

All engineering and design assistance for your project will be handled by our highly qualified and experienced staff. With our wide exposure we would be able to tackle a unique design problem that you face.

AutoCAD, PDMS

Emerald can help you in design process not only with AutoCAD details but also the cable tray offering is available in PDMS.

Specttication Assistance

The most important phase for the success of a composite cable management solution is the specification phase. Our experience of installations in a wide variety of difficult environments can help you specify the best resin system and the correct structural properties that are long lasting and low on acquisition cost.

Fiberglass Cable Tray System

Fibreglass Reinforced plastics (FRP) are increasingly being considered as a superior material of construction in many fields. FRP has proved immensely beneficial in a wide range of industrial applications due to the following salient features.

THE FIBERGLASS ADVANTAGES

As compared to galvanized Steel

- Corrosion resistance coating not required.
- No risk of injury.
- Resistant to salt water, sulfur, chlorine or basis environments.

As compared to aluminum

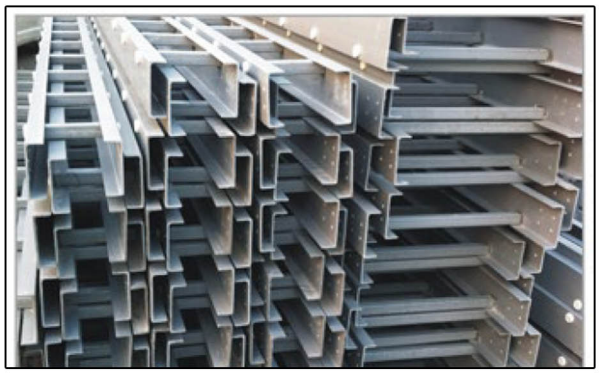
- No electrolytic corrosion due to contact of two metals in humid environment.
- Much more longer life span in basic chlorine or halogen atmosphere.

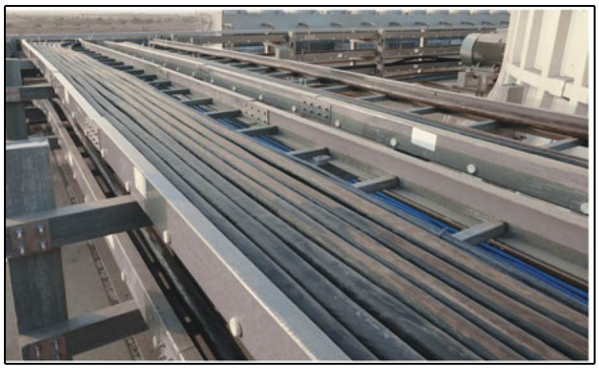
As compared to Stainless Steel

- Absence of corrosion under tension (mechanical).
- Recommended in chlorine environment.

As Compared to Metals

- No earthing required.
- Resistance to corrosion contributes to reduce the life cycle costs (LCC) of installations.
- No requirement for electric continuity test.
- Will not deform under impact.
- Easy to work (Cut, drill) at site and id much easier to move and place because is it light weight.





FRP LADDER TYPE CABLE TRAY

Nomenclature For Ladder Type Cable Tray

Example : ACL - P - 12 - 40 - S - 150 - Y

Cable Tray Type	Resin Type	Width	Height	Rung Type	Rung Spacing	STD Length
ACL Ladder Type	P-Polyester	06-150mm	20-50	S-Normal*	A-150mm	X-1M
	V-Vinylester	12-300mm	30-75	M-Marine	B-250mm	Y-3M*
		18-450mm	40-100		C-300mm*	
		24-600mm	60-150		D-450mm	
		30-750mm	80-200			
		36-900mm				

* Standard Size

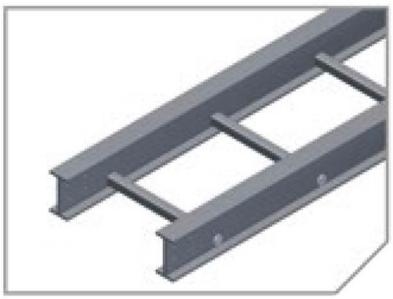
Heavy Duty Cable Tray With I-beam Side Rail (Available In 100 & 150 mm Height)

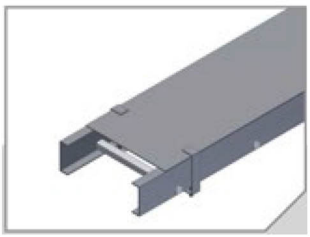
Nomenclature For Ladder Type Cable Tray Fitting

Example : ACL - 90 - VIB - W - H - R

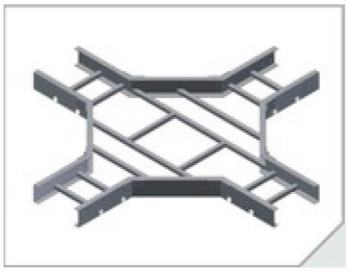
Cable Tray Type	Angle	Type	Width	Height	Radius
ACL Ladder Type	30°	HB-Horizontal Bend	06-150mm	20-50	300
	45°	HT-Horizontal Tee	12-300mm	30-75	450
	60°	HX-Horizontal Cross	18-450mm	40-100	600
	90°	VIB-Vertical Inside Bend	24-600mm	60-150	900
	#	VOB-Vertical Outside Bend	30-750mm	80-200	Direct
		VT-Vertical Tee	36-900mm		
		VTU-Vertical Tee, Up			
		RR-Right Reducer			
		LR-Left Reducer			
		SR-Straight Reducer			

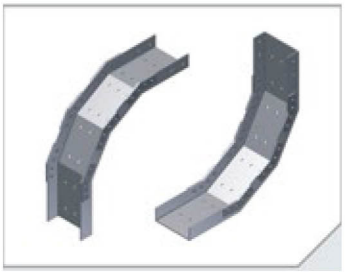
Nomenclature system includes each system wtth their respective side rail height, flange width, channel thickness etc. All cable trays are available in Polyester, Vinyl ester, Antistatic and halog en-free resin. Rung connections are made with a mechanical and chemical lock

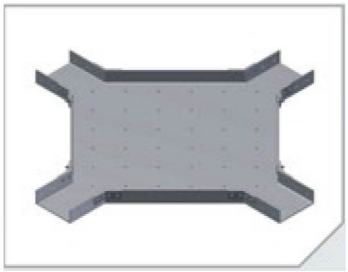


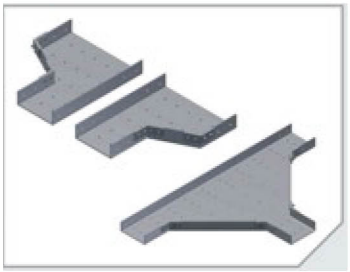


CABLE TRAY FITTINGS



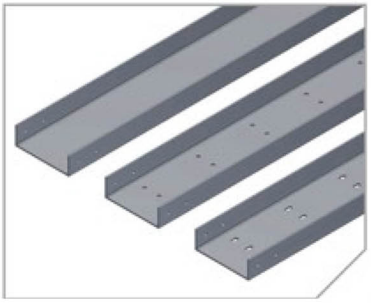






CHANNEL/ PERFORATED TYPE CABLE TRAY

CHANNEL/DUCT TYPE CABLE TRAY*



FLANGED TYPE CABLE TRAY

Nomenclature For Perforated Type Cable Tray

Example : ACP - P - 060 - Y

Cable Tray Type	Resin Type	Width x Height	STD Length
ACP Perforated Type	P-Polyester	020-50x30mm	X-1M
	V-Vinylester	021-50x50mm	Y-3M*
		022-50x25mm	
		030-75x25mm	
		031-75x30mm	
		032-75x50mm	
		040-100x30mm	
		041-100x50mm	
		060-150x50mm	
		080-200x50mm	
		081-200x100mm	
		120-300x50mm	
		040RF-100x100mm	
		060RF-150x100mm	
		080RF-200x100mm	
		120RF-300x100mm	
		160RF-400x100mm	
		200RF-500x100mm	

Custom Size Available On Request

FITTING SELECTION GUIDE

Nomenclature For Perforated Type Cable Tray Fitting

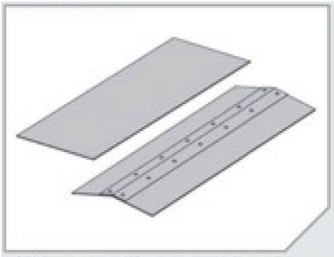
Example : ACL - 90 - VIB - C - R

Cable Tray Type	Angle	Type	C=Width x Height		Radius
ACP Perforated Type	30°	HB-Horizontal Bend	020-50x30mm	080-200x50mm	300
	45°	HT-Horizontal Tee	021-50x50mm	081-200x100mm	450
	60°	HX-Horizontal Cross	022-50x25mm	120-300x50mm	600
	90°	VIB-Vertical Inside Bend	030-75x25mm	040RF-100x100mm	900
	#	VOB-Vertical Outside Bend	031-75x30mm	060RF-150x100mm	Direct
		VT-Vertical Tee	032-75x50mm	080RF-200x100mm	
		VTU-Vertical Tee, Up	040-100x30mm	120RF-300x100mm	
		RR-Right Reducer	041-100x50mm	160RF-400x100mm	
		LR-Left Reducer	060-150x50mm	200RF-500x100mm	
		SR-Straight Reducer			

Custom Size Available On Request

#-For Reducers

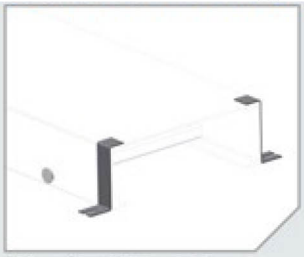
Cover



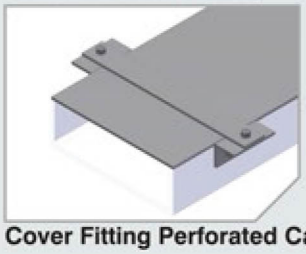
Flat cover & Peaked cover

Flanged / Box Cover

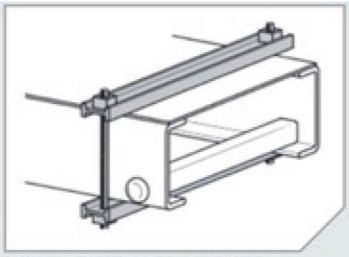
Cover Fitting



Standard Cover Clamp



Cover Fitting Perforated Cable Tray



Heavy Duty Cover Clamp

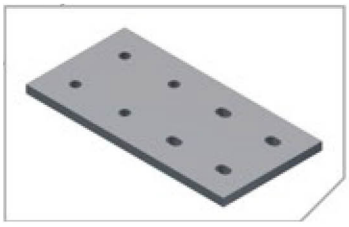
Quantity of Standard Cover Clamps Required

Straight Section 3000mm.....4 pcs.
Straight Section 6000mm.....6 pcs.
Horizontal/Vertical Bends.....4 pcs.
Tees.....6 pcs.
Crosses.....8 pcs.

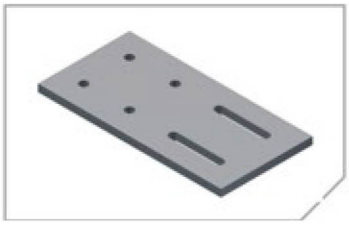
Note : When using the Heavy Duty Cover Clamp, only one-half the number of clamps stated above is required.

ACCESSORIES

Emerald offers a full line of accessories for our electrical products including cable tray covers, divider strips, drop outs, blind ends, adapters, hold-down clips, marine rungs, strut rungs and a wide variety of stainless steel or FRP cable tray fasteners appropriate for any application.



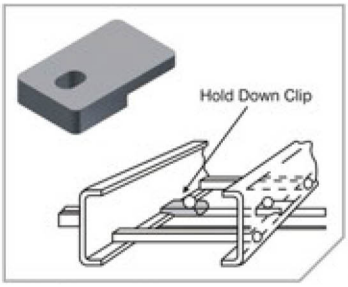
Standard Splice Plates



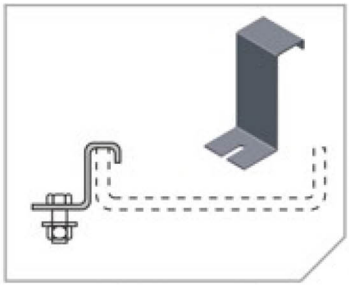
Expansion Splice Plates

Vertical Adjustable Splice Plates

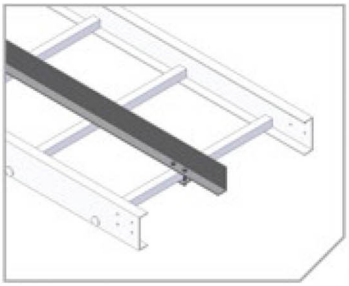
Vertical Adjustable Splice Plates



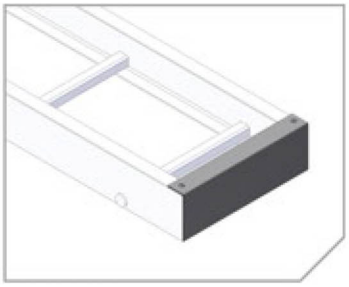
Hold Down Clip



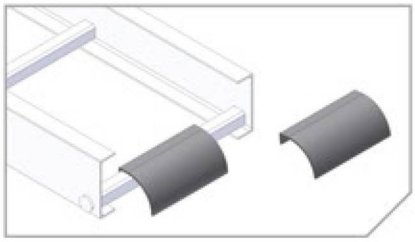
Channel Hold Down Clamp



Divider Strip



Blind Plate



Ladder Drop-out
Specially-designed Ladder Drop-Outs provide a rounded surface with adequate radius to protect cable as it exits from the tray, preventing damage to insulation.

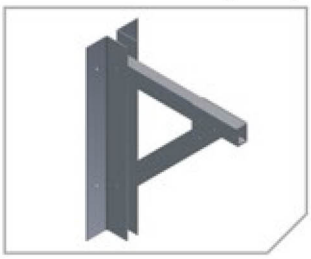
WORKING LOAD CAPACITY
The working load capacity represents the ability of a fibreglass cable tray to support the static weight of cables. It is equivalent to destructive load capacity, with minimum safety factor oft 1.5

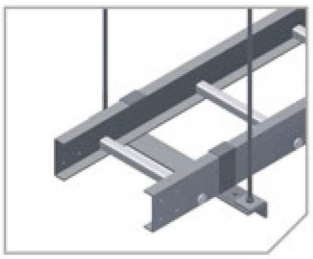
Width of Cable Tray	Side Rail	Load Kg/Mtr. For Support span 2.0 Mtr.
150mm	75	35
300mm	75	65
450mm	100	85
600mm	100	95
750mm	100	125
900mm	150	155

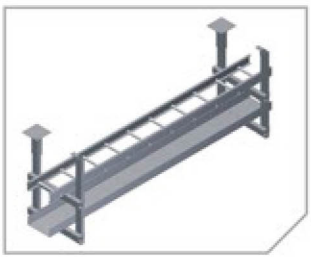
Concentrated Static Load is 70 Kg. at the centre of the span.

SUPPORT SYSTEMS

Wall Mounted, Ceiling Hanged & Floor Mounted.







As per NEMA Loading standards :

Load	Lb/ft.	Kgs/Mtr.
A	50	74
B	75	111
C	100	148

Side Rall	Load Class
75	8A
100	8C, 12C, 16A
150	12C,168, 20A, 20C

Support span : 8, 10, 12 are in Feet

EFFECT OF TEMPERATURE

Strength properties of fiberglass are reduced when continuously exposed to elevated temperatures. Working loads shall be reduced based on the following:

Temp. in °F	75	100	125	150	175	200
Approx. % of Strength	100	90	78	68	60	52

Properties	Test Methods	Unit/Value	Longitudinal	Transverse
Tensile Strength	ASTM D638	MPa	206.8	48.2
Flexural Strength	ASTM D790	MPa	206.8	68.9
Izod impact	ASTM D256	J/mm	1.33	0.21
Barcol Hardness	ASTM D2583	-	45	45
Shear Strength	ASTM D2344	MPa	31	-
Density	ASTM D792	g/ee	2	-
Coefficient of Thermal Expansion	ASTM D696	10^{o}mm/mmfC	8	-
Water Absorption (24 Hours)	ASTM D570	%Max	0.45	-
Dielectric Strength	ASTM D149	kv/in	35	-
Flammability Classification	UL 94	-	VO	-

STANDARDS

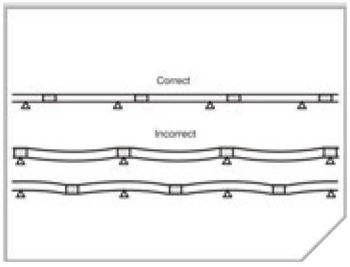
- IS 6746 -1994 Specs for Unsaturated Polyester Resin System for Low Pressure Fiber Reinforced Plastics
- NEMA FG-1 1984-1993 (Current Issue) Specification for Fiberglass Tray System - Loading Characteristics
- IS 6746 Appendix - K/UL 94 Flame Retardant (Low Flammability/v0)

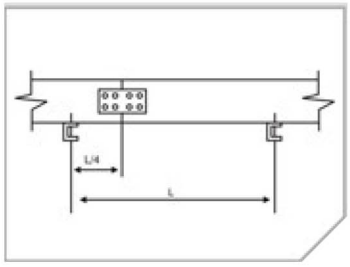
INSTALLATION GUIDELINES

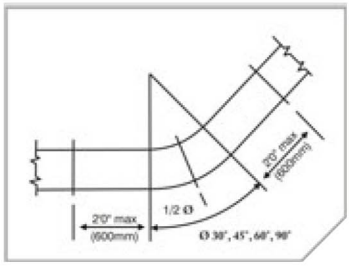
The installation of Emerald Cable Tray should be made in compliance with the standards set forth by the National Electric Code and NEMA Publications FG-1 (current issue). Avoid excessive pressure when sawing, drilling, and routing, etc.
Use carbide-tipped drill bits and saw blades for extended tool life.
The use of lubricant during machining is not recommended.
To avoid chipping of material at cut edges, secure cable tray and fittings property during field cut operations. Follow label instructions carefully. A combination of mechanical fasteners and adhesives make the strongest most reliable connections.

SUPPORT RECOMMENDATION AS PER NEMA STANDARD

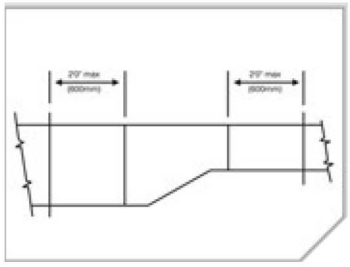
As Per Nema FG1, Splice Plate Is Recommended To Be Located At¼ Of The Span From The Support, Where The Bending Moment Is Zero.



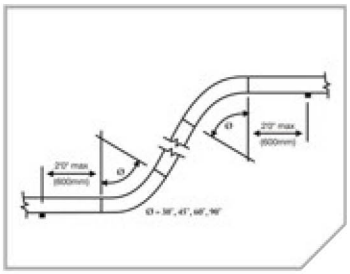




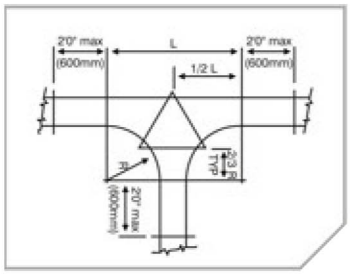
Horizontal Elbows



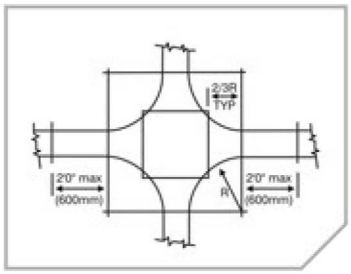
Offset Reducer



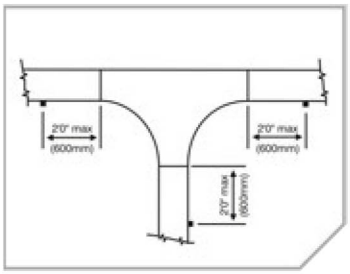
Vertical Elbows



Horizontal Tee



Horizontal Cross



Vertical Tee

LOADING CAPABILITY & SUPPORT SPAN

All EMERALD cable trays are manufactured in accordance with the NEMA standard publication VE 1-3.02 1979, TITLED "Cable Tray Systems". Thus they meet and/or exceed the loading capability of comparable cable trays.
For guidelines on the maximum distance between support please consult the above mentioned NEMA codes.

All EMERALD cable trays are fabricated from Prime quality Sheet.
To provide adequate protection against corrosion, three types of protection are offered
- Painted after fabrication
- Fabricated from pre-galvanized {GI) sheets
- Hot dip galvanised after fabrication

— For More Deatils Please contact us

CONTACT US

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00971-067434398

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