



## **ADVANTAGES**

- Corrosion Resistant
- Fire Retardant
- High Strength
- Easy To Install
- Light Weight
- U.V. Resistant
- Long Life

## **APPLICATIONS**

- Off Shore Oil Platforms
- Chemical Plants
- Refineries
- Effluent Treatment Plants
- Food & Drug Industries
- Metallurgical Plants
- Marine Industry

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# ERCON FIBRE GLASS CABLE TRAY SYSTEM

ERCON fibre glass cable trays are manufactured on a fully automatic Pultrusion Plant. The material is covered with a resin rich surface veil providing it maximum Chemical and U.V. resistance. Ercon cable trays meet stringent Fibre retardancy requirements.



## ERCON GRP CABLE LADDERS FOR POWER CABLES

Code	Side Runner (H)	NEMA Load Class	Duty
CL-75-W	75	8A / 6B	Light Duty
CL-100-W	100	10A / 8B / 6C	Medium Duty
CLh-150-W	150	8C / 10B	Heavy Duty
CLh-160E-W	160	10C / 12B / 20A	Heavy Duty
CLh-200-W	200	20C	Extra Heavy

Support Span	Working Allowable Load (Kg/m)				
	CL-75-W	CL-100-W	CLh-150-W	CLh-160E-W	CLh-200-W
6m	-	-	-	75	150
4m	-	-	75	110	150
3m	-	75	110	150	-
2.5m	75	110	150	150	-
2m	110	150	150	150	-

Substitute 'W' by width of tray while ordering.

H = Height of Cable Ladder

NEMA Class ==>6,8,10,12,20 are support spans in feet.  
A=50 lbs/ft (75 kg/m), B=75 lbs/ft (110 kg/m), C=100 lbs/ft (150 kg/m)

## MEETS EIL-OED-S-422-REV.4 & NEMA FG1-1993 SPECIFICATIONS.

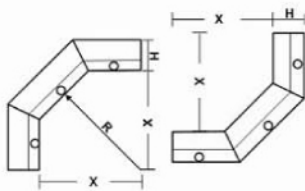
### SPECIFICATIONS :

	Standard Product	Alternative Options
Material	Polyester Resin	Vinyl Ester Resin, Phenolic Resin
Fire Retardancy	UL94V1, BS476 Part 7 and 6 Class II, IS-6746, ASTM-D-635	UL94V0, Class - I
Length	3m	3-6m
Width	150 - 1000 mm	Sizes as required
Rung Construction	GRP Square Tubes	GRP Strut-Channel/ GRP Rod
Rung Spacing	300 mm	500 mm or as required
Coupler Plates	GRP/FRP with SS Bolts	SS Coupler Plates & Bolts
Radius of Bends	300 mm	600 mm/ 900 mm
Angle of Bends	90° & 45°	As required
Electrostatic	Static	Antistatic

**WARNING ! Not to be used as a Walkway, Ladder or support for personnel**

## ACCESSORIES FOR CABLE LADDERS

### 90° VERTICAL BENDS



EXTERNAL INTERNAL

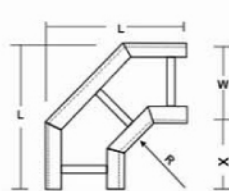
Code : CL/CLh-H-W-90°VB-EX/IN-R

		300 R	600 R
CL	X	375	675
CLh	X	405	675

$$L = X + H$$

SAME DIMENSIONS FOR ALL WIDTHS

### 90° HORIZONTAL BENDS

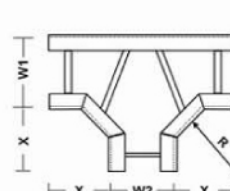


Code : CL/CLh-H-W-90°HB-R

		300 R	600 R
CL	X	379	679
CLh	X	409	679

$$L = X + W + 4$$

### EQUAL / UNEQUAL TEE



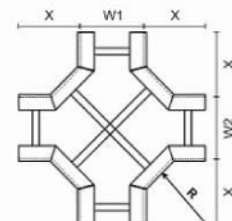
Code : CL/CLh-H-W1-W2-T-R

		300 R	600 R
CL	X	379	679
CLh	X	409	679

$$L1 = X + W1 + 4$$

$$L2 = 2X + W2$$

### EQUAL / UNEQUAL CROSS



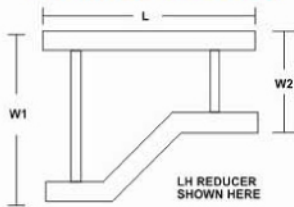
Code : CL/CLh-H-W1-W2-X-R

		300 R	600 R
CL	X	379	679
CLh	X	409	679

$$L1 = 2X + W1$$

$$L2 = 2X + W2$$

### LH/RH REDUCER

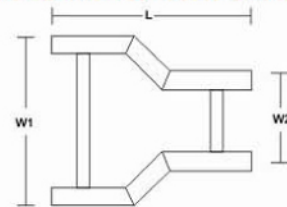


Code : CL-H-W1-W2-LR/RR



STRAIGHT REDUCER

### CONCENTRIC REDUCER



Code : CL-H-W1-W2-CR

W1 \ W2	900	800	750	700	600	500	450	400	300	200	150
800	500	-	-	-	-	-	-	-	-	-	-
750	550	450	-	-	-	-	-	-	-	-	-
700	600	500	450	-	-	-	-	-	-	-	-
600	700	600	550	500	-	-	-	-	-	-	-
500	800	700	650	600	500	-	-	-	-	-	-
450	850	750	700	650	550	450	-	-	-	-	-
400	900	800	750	700	600	500	450	-	-	-	-
300	1000	900	850	800	700	600	550	500	-	-	-
200	1100	1000	950	900	800	700	650	600	500	-	-
150	1150	1050	1000	950	850	750	700	650	550	450	-
100	1200	1100	1050	1000	900	800	750	700	600	500	450

W1 \ W2	900	800	750	700	600	500	450	400	300	200	150
800	450	-	-	-	-	-	-	-	-	-	-
750	475	425	-	-	-	-	-	-	-	-	-
700	500	450	425	-	-	-	-	-	-	-	-
600	550	500	475	450	-	-	-	-	-	-	-
500	600	550	525	500	450	-	-	-	-	-	-
450	625	575	550	525	475	425	-	-	-	-	-
400	650	600	575	550	500	450	425	-	-	-	-
300	700	650	625	600	550	500	475	450	-	-	-
200	750	700	675	650	600	550	525	500	450	-	-
150	775	725	700	675	625	575	550	525	475	425	-
100	800	750	725	700	650	600	575	550	500	450	425

Dimensions for 75H & 100H Cable Ladders given in these two tables.  
For Dimensions of Reducers of heavy duty Cable Ladders (CLh) add 60mm.

## ERCON GRP/FRP PERFORATED CABLE TRAYS



CABLE TRAY U CHANNEL TYPE

Code	Sizes Width	Channel Size W x H
CT - 5025	50	50 x 25
CT - 7527	75	75 x 27
CT - 10030	100	100 x 30
CT - 10040	100	100 x 40
CT - 10050	100	100 x 50
CT - 15030	150	150 x 30
CT - 15040	150	150 x 40
CT - 15050	150	150 x 50
CT - 20050	200	200 x 50
CT - 30050	300	300 x 50



CABLE TRAY RETURN FLANGE TYPE

Code	Sizes Width	Channel Size W x H
CTF - 5025	50	50 x 25
CTF - 5050	50	50 x 50
CTF - 10050	100	100 x 50
CTF - 10080/100110	100	100 x 80/110
CTF - 15050/150110	150	150 x 50/110
CTF - 20050	200	200 x 50
CTF - 20080/200110	200	200 x 80/110
CTF - 30050	300	300 x 50
CTF - 30080/300110	300	300 x 80/110
CTF - 40080	400	400 x 80
CTF - 50080/500110	500	500 x 80/110
CTF - 60080/600110	600	600 x 80/110

**Loading :** Instrumentation cable trays are meant only for light instrument cables or pneumatic tubing loads. Recommended support span is 1.5 m.

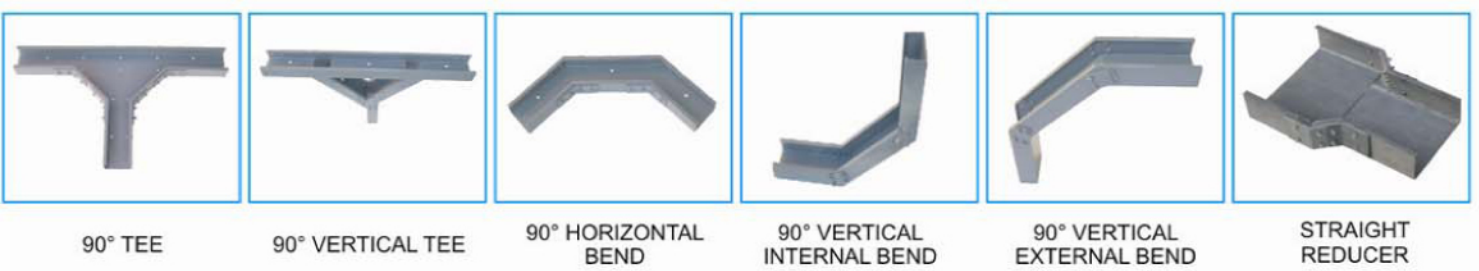
## SPECIFICATIONS OF STANDARD ERCON FRP INSTRUMENT CABLE TRAYS

	Standard Product	Alternative Options
Material	Polyester Resin	Vinylester Resin
Fire Retardancy	Class II, UL94V1, IS-6746, ASTM-D635	Class - I, UL94V0
Length	3 Metres	2 - 6 Metres
Construction	Perforated Type	Solid Base
Width	50 - 600 mm - Pultruded	as required (Moulded)
Radius of Bends	300 mm	600 mm
Colour	Grey	as desired

\*NOTE 1 : GRP & FRP are two nomenclatures for same fibre glass cable trays & ladders

\*NOTE 2 : Tolerance : Tolerance on all dimensions in ± 6mm.





90° TEE

90° VERTICAL TEE

90° HORIZONTAL BEND

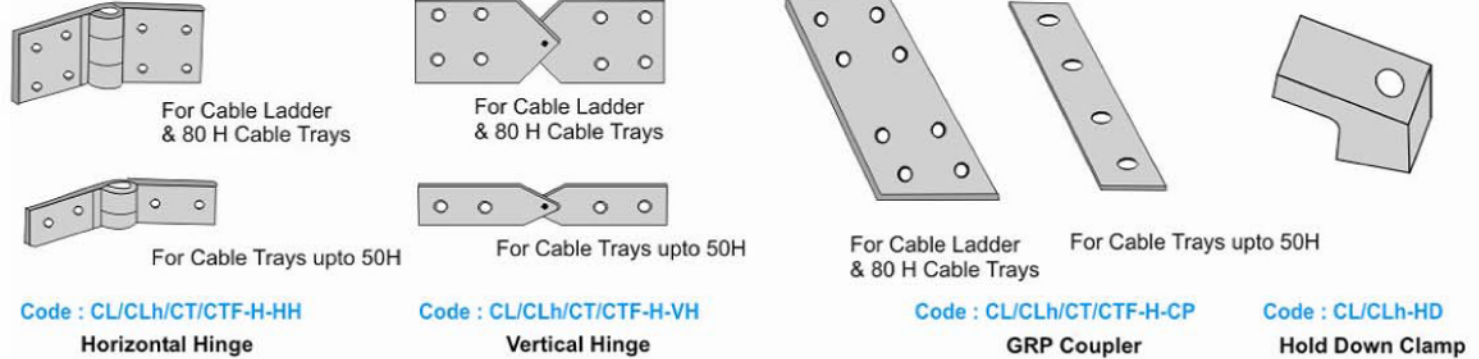
90° VERTICAL INTERNAL BEND

90° VERTICAL EXTERNAL BEND

STRAIGHT REDUCER

**Loading :** Instrumentation cable trays are meant only for light instrument cables or pneumatic tubing loads

## OTHER ACCESSORIES FOR POWER & INSTRUMENTATION CABLE TRAYS



For Cable Ladder & 80 H Cable Trays

For Cable Ladder & 80 H Cable Trays

For Cable Ladder & 80 H Cable Trays

For Cable Trays upto 50H

Code : CL/CLh/CT/CTF-H-DD  
Hold Down Clamp

Code : CL/CLh/CT/CTF-H-HH  
Horizontal Hinge

Code : CL/CLh/CT/CTF-H-VH  
Vertical Hinge

Code : CL/CLh/CT/CTF-H-CP  
GRP Coupler

## GRP SUPPORTS



BR-1-W (for w=50-300)  
Light Duty Strut Bracket Support

BR-2-W (for w=50-300)  
Light Duty Groutable Strut

BR-3-W (for W=50-600)  
Medium Duty Strut Support

BR-4-W (for W=300-1000)  
Heavy Duty Strut Bracket Support

DBR-5-W (for W=300-1000)  
Heavy Duty Double Strut Support

HR-1-W (for w=50-1000)  
GRP Stud & Strut Hanger Support

## INSTALLATION INSTRUCTIONS : REF : NEMA - FG1

Support must be located such that the coupler plates are at the quarter point of the span. For example, if the support span is 3m, the quarter point is 750mm from the support. In a continuous beam configuration, the bending moment in the tray side rail is minimum at points located approximately 1/4 of the span from each tray support. Thus there will be minimum stress on coupler plate if joint is located at 1/4 of span. For bends and other fittings the supports should be within 2 feet of each fitting extremity.

## CHEMICAL RESISTANCE :

<b>Isophthalic Polyester Resin</b>	For most of the general applications.
<b>Vinyester Resin</b>	Recommended for severe corrosive atmospheres.
<b>NOTE :</b> For specific chemical resistance please contact us.	