



## **FRP / GRP CABLE MANAGEMENT SYSTEM**



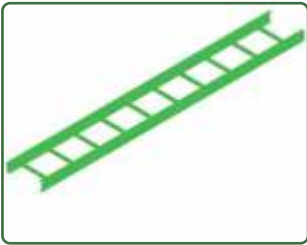
**Composite Products Corporation**

## FRP/GRP CABLE MANAGEMENT SYSTEM

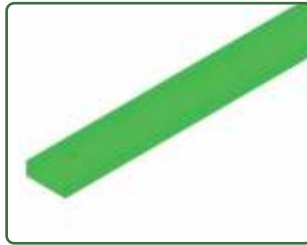
**Raj Builtcon** offers wide range of FRP/GRP Ladder and Perforated cable tray and provide reliable cable support in corrosive application. These cable tray manufactured by modern technologies automated pultruded process. which ascertain consist excellent quality product. FRP/GRP Cable tray are utmost durable and resist to all kind of chemical attach. These are good replacement of those cable tray that easily get corrode, spread head and erode.

**FRP/GRP Cable Tray is divided in two types**

**(1) Ladder Type Cable Tray**



**(2) Perforated Type Cable Tray  
(Channel Type Cable Tray)**



DESCRIPTION	FRP PERFORATED CABLE TRAY	FRP LADDER CABLE TRAY
Types of Glass	ECR Boron Free	ECR Boron Free
Resin	Polyester/Ishophthalic/Vinaylester	Polyester/Ishophthalic/Vinaylester
Standard Length	3 MTR & 6 MTR	3 MTR
Width	50mm – 300 mm	150mm – 900mm
Rung Section	Not Required	FRP Hollow Square Tube
Rung Section Space	Not Required	300mm
Coupler plate	FRP/GRP	FRP/GRP
Angle of Bend	45º, 60º, 90º	45º, 60º, 90º
Bend Radius	300mm, 600mm	300mm, 600mm
FR Grade	IS : 6746	IS : 6746
Colour	Gray / Yellow	Gray / Yellow

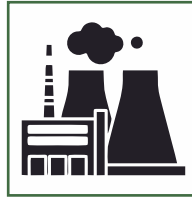
## APPLICATION



INDUSTRIAL



CIVIL



POWER PLANT



COOLING TOWER



LIGHT WEIGHT



MARINE



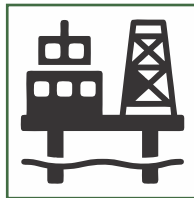
MINING



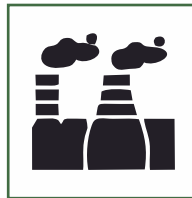
OFFSHORE



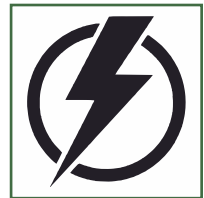
OIL-AND-GAS



PLATFORM



POLLUTION  
CONTROL



ELECTRICAL



PROCESS



PULP AND  
PAPER



RADAR



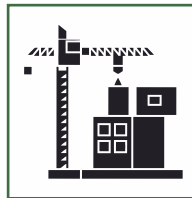
RAIL



TRANSPORTATION



UTILITIES



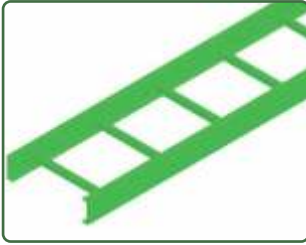
BUILDING AND  
CONSTRUCTION



WATER

## LADDER TYPE CABLE TRAY

FRP/GRP ladder type cable tray generally used for heavy load supporting cable. It can be assembled to different types of pultruded section, side runner and rung section.

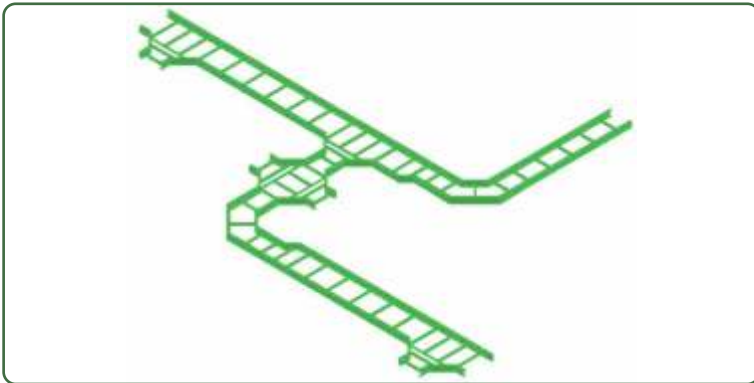


Without Cover



With Cover

## LADDER TYPE CABLE TRAY FITTINGS



90° Horizontal Bend



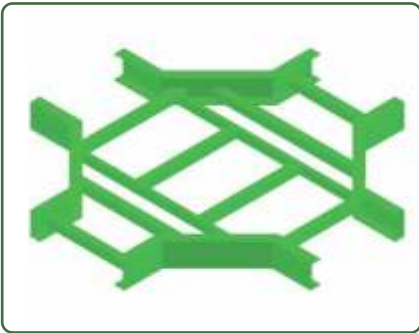
Horizontal Tee



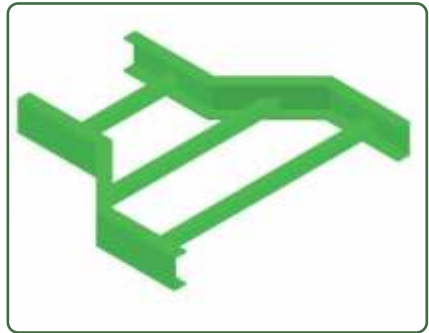
**90° Vertical Inside Bend**



**90° Vertical Outside Bend**



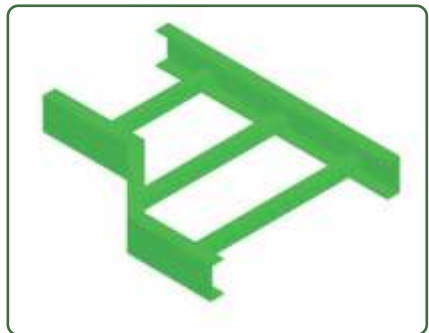
**Horizontal Cross**



**Reducer**



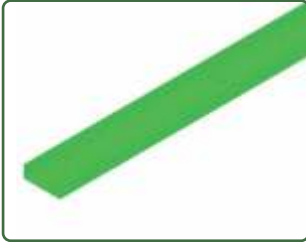
**Right Hand Side Reducer**



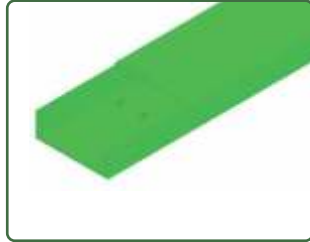
**Left Hand Side Reducer**

## PERFORATED TYPE CABLE TRAY

**Raj Builtcon** FRP/GRP Perforated Cable Tray are in high demand due to usage of high quality material which enhances life of product in all weather conditions, these technically advanced products are specially designed to satisfy requirements of our esteemed clients.

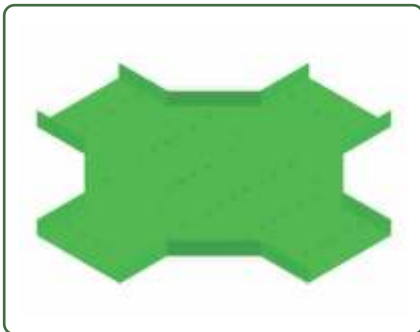
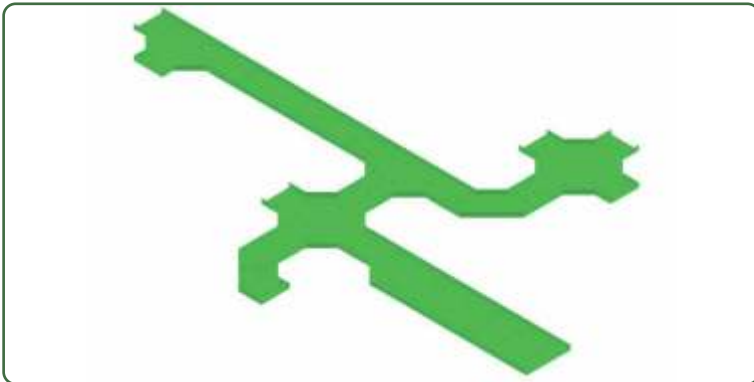


Without Cover



With Cover

## PERFORATED TYPE CABLE TRAY FITTINGS



Horizontal Cross



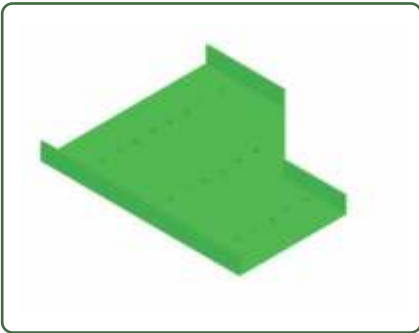
90° Horizontal Bend



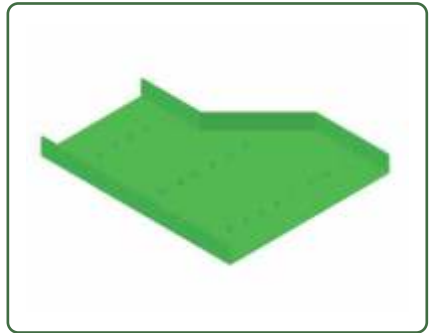
**90° Vertical Inside Band**



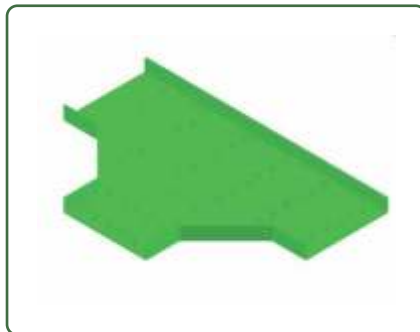
**90° Vertical Outside Bend**



**Right Hand Side Reducer**



**Left Hand Side Reducer**



**Horizontal Tee**

## WHY CPC FRP/GRP GRATING!!

**Raj Builtcon** provide all types of services like design, manufacturing and installation as per customer requirement.

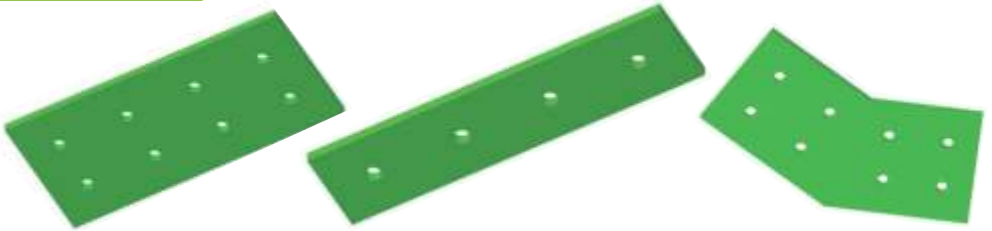
- **Corrosion resistant:** When compared with other materials like stainless steel, aluminium or galvanised steel, FRP/GRP has a very high resistance to most corrosive elements like chemicals, heat and moisture. It can be installed in outdoor locations as well as in hostile environments like a chemical Industries.
- **High strength:** FRP/GRP strength to weight ratio is high, that means despite its light weight it is incredibly strong. It can be used to carry heavy cables and can easily stay upright like steel trays.
- **Light weight:** FRP/GRP trays are lighter than other material like steel or aluminium, This makes it easy to carry, bringing down the cost of installation. It also makes FRP/GRP easier to install.
- **Non conductive :** does not carry any electric current.
- **Maintenance free:** The dye in FRP/GRP Cable trays is in-built and not painted. It cannot peel a ways. Its high resistance to most atmospheric factors makes it practically maintenance free.
- **UV resistance :** inbuilt UV resistance gives protection from direct sunlight.
- **Antistatic:** This is a useful quality when carrying cables. FRP/GRP's antistatic properties ensure that there is no outward static activity which can disrupt electronic implements in its immediate surroundings.
- **Life Cycle :** High resistance to environmental corrosion also makes FRP/GRP far more durable than other materials. Combined with its low maintenance requirement, it makes for an absolutely fuss free conduit for cables that will last a lifetime.
- **Off shore:** FRP/GRP has a high resistance to salt and water, making it ideal for off-shore installation. Other materials rarely last for long in such hostile conditions.



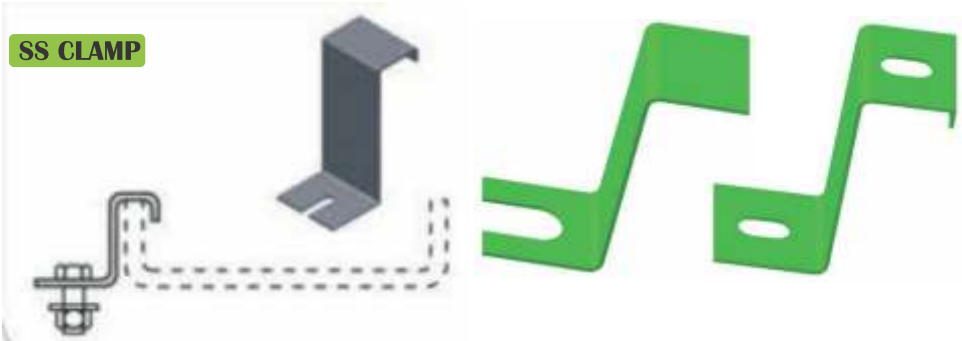
## ACCESSORIES FOR CABLE TRAY

Accessories are very important part of fixing & installation of Cable tray. We design different types of clamp & Coupler plate.

### COUPLER PLATE

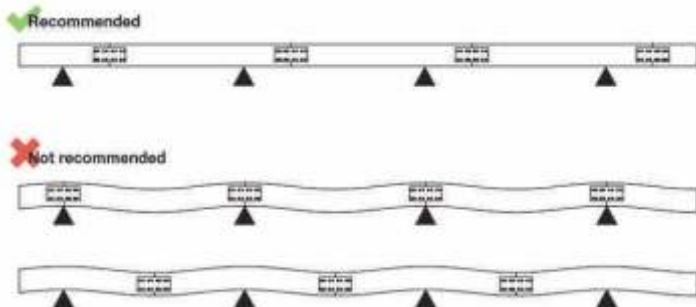


### SS CLAMP



### Support Location Guideline

In order to minimize deflection and maximize the safe working load, the cable tray should be installed so that Coupler plate joints between horizontal runs sit at the quarter point of the span as illustrated below.



## PROPERTY CHART

PROPERTIES	TESTING METHOD ASTM	UNIT	DIRECTION	
			LONGITUDINAL	TRANSVERSE
Tensile Strength	D - 638	MPa	206.8	48.2
Compressive Strength	D - 695	Mpa	206.8	103.4
Shear Strength	D - 2344	Mpa	31	-
Flexural Strength	D - 790	Mpa	206.8	68.9
Izod Impact	D - 256	J/mm	1.33	0.21
Barcol Hardness	D - 2583	-	45	45
Coefficient of Thermal Expansion	D - 696	106 mm/mm/c	8	-
Water Absorption (24 Hours)	D - 570	% Max.	0.45	-
Dielectric strength	D - 149	Kv/in	35	-

## RESIN SELECTION CHART

RESIN TYPE	RESIN BASE	DESCRIPTION
Type I	Isoththalic Polyester	Industrial Grade Corrosion resistance in acidic environment
Type I-FR	Isoththalic Polyester Fire Retardant	Industrial Grade Corrosion resistance & fire retardant
Type V	Vinyl Ester	Superior Corrosion resistance
Type V-FR	Vinyl Ester Fire Retardant	Superior Corrosion resistance & fire retardant



### WARNING

NOT TO BE USED  
AS A WALKWAY

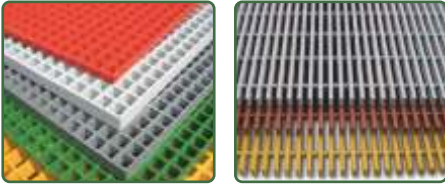
### WARNING!

**CABLE TRAYS ARE NOT DESIGNED FOR USE AS WALKWAYS**

Reference NEMA VE-2 (current issue) In as much as fiberglass cable tray is designed as a support for power or control cables, or both; it is not intended or designed to be a walkway for personnel. The user is urged to display appropriate warning cautioning against the use of this support as a walkway.

## OTHER FRP / GRP PRODUCTS

**GRATING**



**TANK**



**SECTION**



**GUTTER**



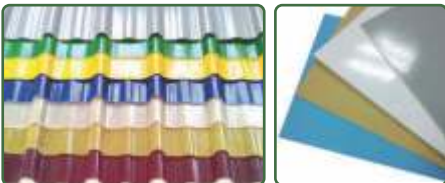
**PIPE**



**CANOPY**



**SHEET**



**MANHOLE COVER**



**FENCING**



**FIRE HOSE BOX**




**POLE**




**Note :** Addition to above products range we take challenges from customer for new innovative FRP/GRP products development as per their requirements.



*Be a part of the solution...  
not a part of the pollution...*

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