

FRP Cable TRAY

Support System



PT. INTI COMPOSITE FIGLASINDO UTAMA
FRP, Composite Product Designer and Fabricator



PT. FULGORINDO TEKNIK UTAMA

MANHATTAN SQUARE BUILDING, 15th FLOOR
JL. TB SIMATUPANG KAV. 1S CILANDAK TIMUR
PASAR MINGGU - JAKARTA SELATAN 12860
Telp. [62-21] 2940 753, Fax. [62-21] 2940 7252
Info@fulgorindo.com
www.fulgorindo.com

INDEX



	Page
Introduction & Over View	1
i-TRAY FRP Cable Support System	2
Advantage of FRP Cable Tray	3
Values of FRP Cable Tray	4
Quality Control System	5
Quality Assurance	6
FRP Cable Tray Index	7
FRP Mechanical & Physical Properties	8
FRP Technical Data	9
Compatibility Guide for Corrosion Chemical Environments	10-12
FRP Cable Tray Load Standard	13
FRP Cable Tray Installation Guide	14-16
i-TRAY FRP Cable Tray Product List	17
FRP Cable Tray Selection Guide	18
Cable Ladder System	
• Straight Ladder Tray	19
• Horizontal Bend Ladder Tray	20
• Riser Bend Ladder Tray	21
• Horizontal Tee	22
• Cross Ladder Tray	22
• Reducer Ladder Tray	23-24
• End Plate, Splice Plate and Exit Plate	24
Deflection Table	
• ILT-75	25
• ILT-100	26
• ILT-150	27
Flanged Channel Solid Tray	28
• Straight Section-Flanged Channel Solid Tray - IST 50	28
• Straight Section-Flanged Channel Solid Tray - IST 75, IST 100	29
• Horizontal Bend	30
• Vertical Bend	30-31
• Reducer	31-32
• Tee and Cross	33
• Convex Cover	33

PT. INTI COMPOSITE FIGLASINDO UTAMA
FRP, Composite Product Designer and Fabricator



PT. FULGORINDO TEKNIK UTAMA

MANHATTAN SQUARE BUILDING, 15th FLOOR.
JL. TB SIMATUPANG KAV. 1S CILANDAK TIMUR
PASAR MINGGU - JAKARTA SELATAN 12560
Telp. [62-21] 2940 753, Fax. [62-21] 2940 7252
Info@fulgorindo.com
www.fulgorindo.com

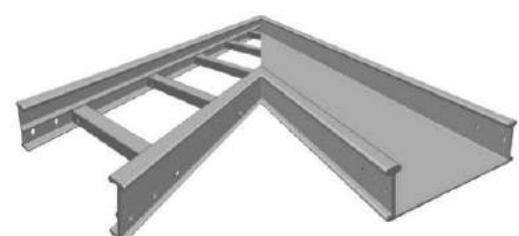
INTRODUCTION AND OVERVIEW

PT. INTI COMPOSITE FIGLASINDO UTAMA established in 2004, was manufactures and exports composite material and end user products for industrial sectors such as chemical processing, oil and gas, metals and mining, water and waste treatment, infrastructure, construction, pharmaceuticals, food and beverage, pulp and paper, electronics, automotive, marine, telecommunications and many more.

We are a leader in the field of composites pultrusion in Indonesia, the company delivers standard as well as customized solutions that are ideal replacements for conventional materials particularly those prone to corrosion.

With production facilities and management office which has an area of more than 25,000 m², manufacturing at Jababeka Industrial Estate an international industrial area with our ISO-9001 certified quality management, we provide high-quality composite solutions and reliable service, complying with customer specifications as well as national and international standards.

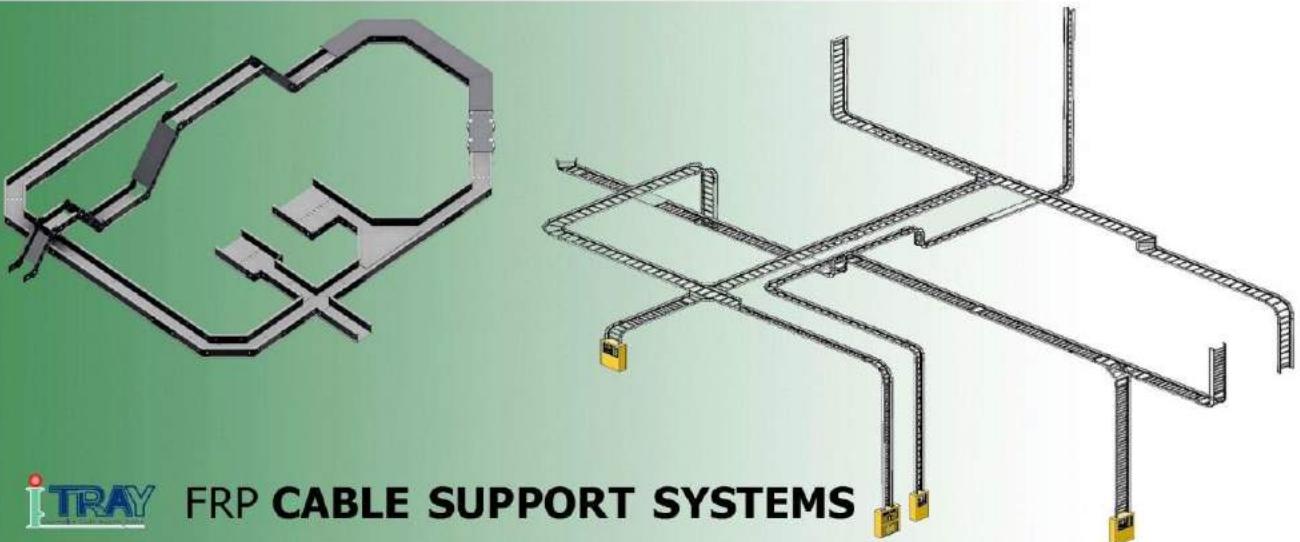
Oriented towards continuous improvement, the company operates using principles of Total Quality Management and ISO 9001 to ensuring complete customer satisfaction. Dedicated to single point responsibility it encompasses conceptual design, prototype, development, testing, manufacturing, logistic support, installation and comprehensive after sales service.



FRP Cable Tray and support system

2

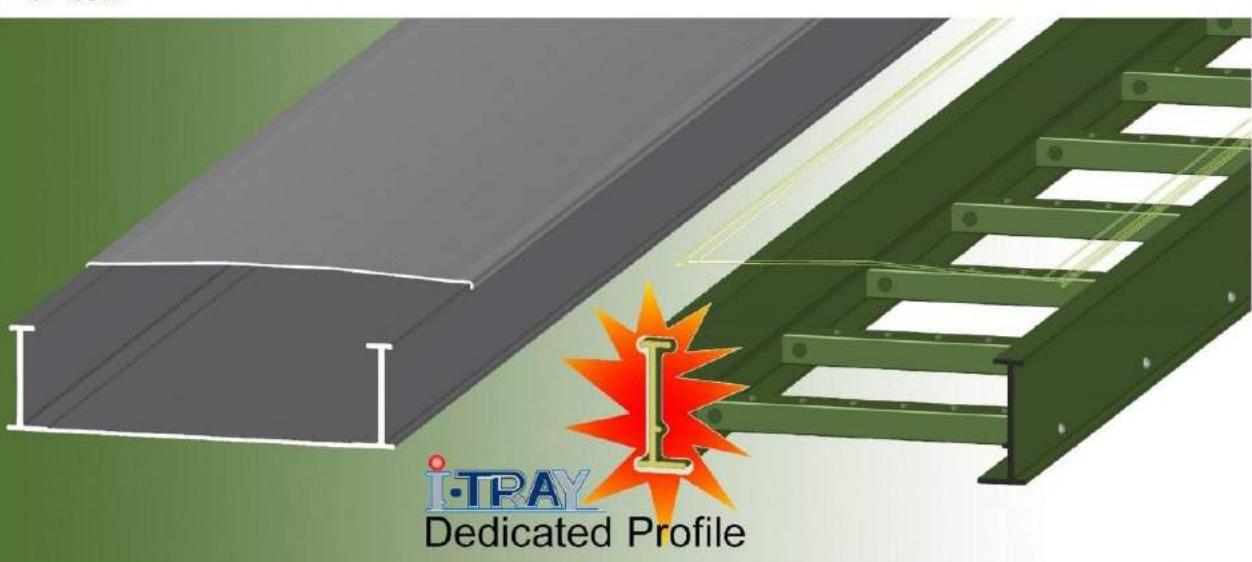
Cable tray and support system is manufactured and fabricated according to (NEMA) National Electrical Manufacturers Association is a unit or assembly of units or sections and associated fittings forming a rigid structural system used to securely fasten or support cables and raceways. Cable Ladders and Cable Trays are used to contain and distribute cables.



FRP CABLE SUPPORT SYSTEMS

is cable tray and cable ladder made from FRP (Fiberglass Reinforced Polyester) and available to make all material are non metallic make this material are corrosion resistant, insulating, extremely light and robust, they have a longer life span than traditional materials and offer maximum fire security. These advantages make them user friendly, ensuring complete customer satisfaction as they exceed industry standards for corrosion resistance, strength, flame resistance and ultraviolet protection.

Manufactured from Fiberglass Reinforced Plastic (FRP) shapes which meet ASTM E - 84, Class-1 Flame Rating (FS < 25) and self extinguishing requirements of ASTM D - 635, the loadings listed for these Cable Ladders and Trays are tested under the guidelines of the current NEMA standards. All iTRAY profiles are designed and dedicated specially to cable tray and cable ladder. We have designed the side rail beam with special "I" shape to make our cable tray very rigid in all direction of load.



iTRAY **does not use the standard profile** structure on the market with such a fabricated and formed to resemble so look like a cable ladder, as this would be very weak against the load from any direction.



ADVANTAGES OF FRP CABLE TRAY

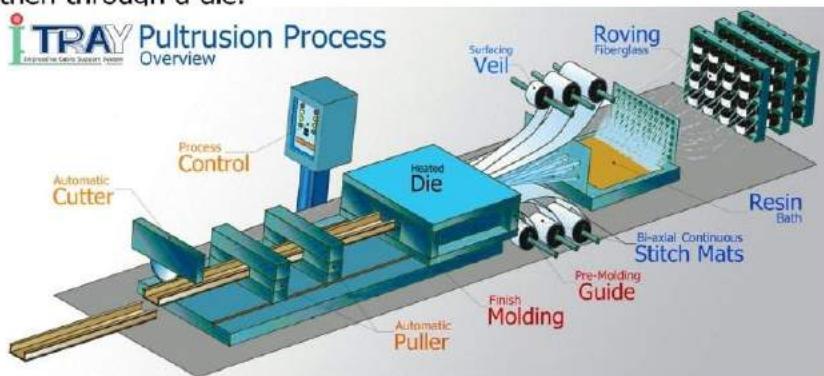
The manufacturing processes of **ITRAY** FRP Cable Tray & Cable Ladder Systems are:

Composites with Pultrusion, Contact Molding and Hot Press Molding

COMPOSITES is a combination of two or more materials, where the resultant material is superior to the individual component parts. **ITRAY**'s composite products utilize these enhanced properties to the full. Designed by an experienced and talented team who know and understand composites, and manufactured from in-house produced thermosetting resins, reinforced by our captive production of reinforcements and processed by the most complete range of conversion techniques,

ITRAY composite products offer durable, long term solutions at a competitive price.

PULTRUSION is a process in which continuous fiberglass are pulled through a bath of resin and then through a die.



PULTRUSION is a process in which dry, continuous fibers are pulled through a bath of resin and then through a die.

The die serves two purposes: it forces the bundle of wet fibers to conform to the shape you want to create and since the die is heated, it will cure the resin to set the bundle of fibers into its final shape.

After the composite comes out of the die, it is allowed to post-cure while being pulled to the automatic saw where it will be cut to designed lengths.

ADVANTAGES OF PULTRUSION :

ITRAY has been designed and thoroughly composed, accurate and measurable by our Total Quality Management team, resulting in effective, efficient, strong and superior products.

High stiffness to weight ratio

Also known as specific stiffness, it allows materials of different mass to be compared quickly in rigidity-sensitive applications where weight is still a factor. Carbon fiber does extremely well in this area, being about 3 times stiffer than steel and aluminum for a given weight. With all the fibers running uni-directionally, pultruded profile take optimal advantage of this characteristic.



High strength to weight ratio

Also known as specific strength, this is similar to the stiffness to weight ratio. This ratio allows you to compare materials of different



mass for applications where resistance against breaking has priority.

Ability to create various profile shapes

The inside diameter of a pultruded profile is determined by a mandrel, which is easy to exchange for a different sized one, making it easy to produce profiles and any kind of profile with varying thickness.



VALUES OF FRP CABLE TRAY

i-TRAY VALUES :

1. Corrosion Resistant

The inherent chemical resistance of i-TRAY Cable Tray and Support System make them suitable for use where many conventional materials fail in corrosive environmental.

By special request i-TRAY can be made with nonmetallic material in whole on tray, accessories and other parts and life expectancy of i-TRAY is over 20 years for the corrosion matters, so thus reducing overall investment and operating expenses.



2. Easy Installation

i-TRAY Cable Support System are light weight and robust. Being 80% lighter than steel and 30% lighter than aluminum enables these Composite Products to be installed quickly and easily. Due to the smooth edges and ability to install long lengths of trays, long runs of armored cables can be installed with less chance of cable damage. Interlocking assemblies and self adjustable couplings are an added advantage.

i-TRAY Cable Support System can be installed after concrete and major building steel and mechanical piping works are completed, ensuring reduced labor and costs.



3. Fire Resistant

Due to their inherent high temperature resistance and low thermal conductivities, i-TRAY Cable Support System provide maximum fire security. FRP of i-TRAY is Fire Retardant comply to ASTM-E84 Class 1, which Flame Spread <25, they are self extinguishing and Halogen Free, so offer excellent non-toxic performance in the event of a fire, particularly in confined spaces such as tunnels or underground metro installations.



4. Versatile

i-TRAY Cable Support Systems are available in variety of sizes, style and length . A standard as well as custom design can be fabricated for any kind of application, regardless of the size and shape.



5. Space Efficiency

i-TRAY Cable Support Systems can carry more cables in less space as compared to many conventional wiring methods. They are compatible with other wiring methods.

6. Accessibility for future

New cables can be easily added and old cables replaced or repaired. Circuits can be visually traced, minimizing start up and trouble shooting.

7. Flexible Design & Size

i-TRAY made with a pultrusion process, allowing the length of the cable tray to be made on demand up to the size of the transport vehicle.

VALUES OF FRP CABLE TRAY

8. High Strength

Higher strength than structural steel on a weight to weight ratio: ASTM D-638 / ASTM D-695.

9. Impact Resistant

Returns to original position without any permanent deflection or distortion : ASTM D-256 / IEC 60068-2-75.

10. Non-conductive

Glass reinforced pultrusions have low thermal conductivity and are non-conductive. ASTM D-149 / ASTM D-495.

11. Electro-magnetic transparency

Pultruded products are transparent to radio waves, microwaves and other electromagnetic frequencies.

12. Dimensional Stability

The coefficient of thermal expansion of pultruded products are marginally less than steel and aluminum.

13. Low Temperature

FRP has excellent mechanical properties at low temperatures.

14. Ultra Violet Stability

All pultruded products contain an ultraviolet inhibitor, this is further complimented with an external surface veil. ASTM D570 / ASTM G154.

15. Weight and Shipping

Our versatile system is light weight and can be packed flat to reduce expensive shipping costs.

QUALITY SYSTEM AND CONTROL

ITRAY standards commonly referenced in specifying cable tray are:

- National Electric Code, Article 318-Cable trays
- NEMA Standards Publication NO. FG 1, Fiberglass Cable Tray Systems
- ASTM standards are also referenced to characterize the materials used to construct the fiberglass cable tray.

ASTM standards define physical properties tests for the materials used to pultrude the cable tray. The specific ASTM test methods for mechanical, thermal and flammability properties are identified in the Construction and Physical Properties Section. ASTM standard material properties for fiberglass channel and strut are identical to those of the cable tray because they are pultruded from the same materials.



QUALITY ASSURANCE



To ensure the quality of materials we produce in accordance with the above reference, we apply the Total Integrated Quality System from design, process and testing at independent laboratory and implemented Quality Management System ISO-9001 certified



Certificate of Registration

Jl. Tekno 6 Blok E 1C-D Kawasan Industri JabaBeka 3 Cikarang - Bekasi 17551
Jawa Barat - Indonesia

Create a management system that complies with the requirements of

With the scope:

Prevision or design other related produc.

EIA Code 14 & 28

Certificate No. 05-4456

Originally Registered: 26th March 2017

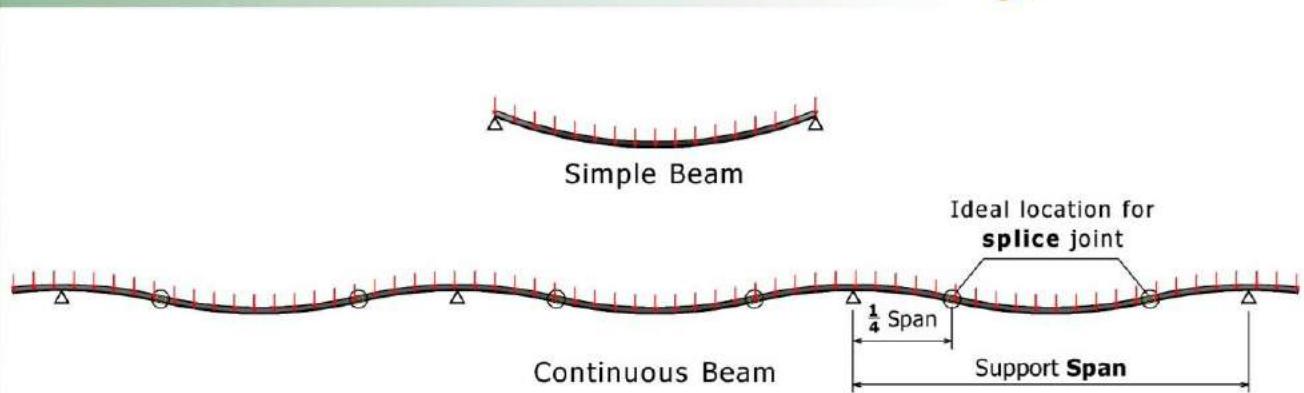
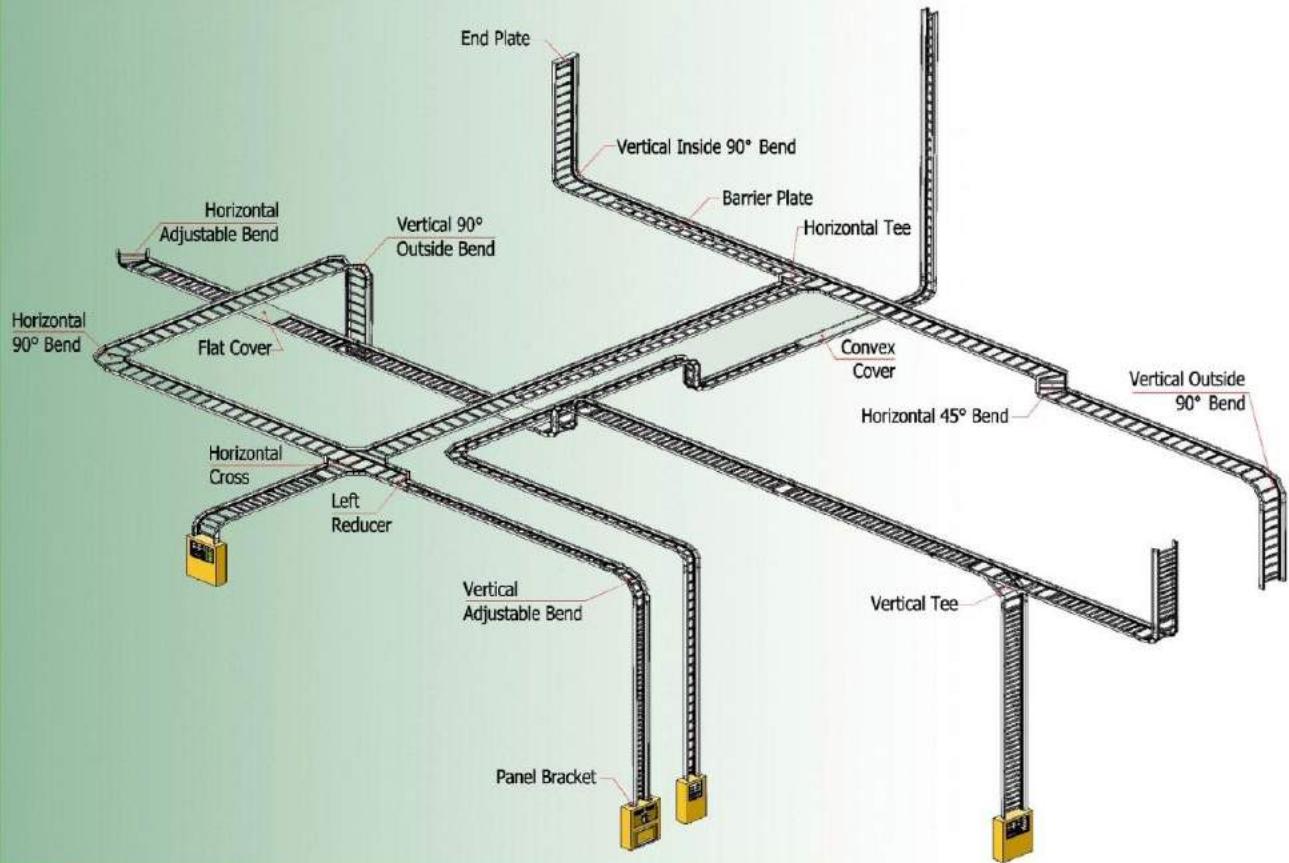
Registered by WQA: 95th March 2017

Signed on behalf of W&G

Intertek
TEST REPORT



iTRAY provides complete components, fittings and parts for cable support systems of various sizes and shapes to facilitate wiring installation easy and flexible



Locating Splice Joints :

When possible, splice joints should be placed at or near the quarter point of any given support span. This is the point of least mechanical stress.

For example:

with a section of tray resting on supports spaced 4 meters apart, the splice plate joints should be located 1 meter from supports (support span divided by 4)



FRP MECHANICAL & PHYSICAL PROPERTIES



Imperial				MECHANICAL PROPERTIES		Metric				
FR-Polyester		FR-Vinylester		Units	Mechanical (Coupon)	Units	FR-Polyester		FR-Vinylester	
LD	T.D.	LD	T.D.				LD	T.D.	LD	T.D.
30,000	7,000	35,000	10,000	psi	Ultimate Tensile Strength	N/mm ²	207	48	241	69
30,000	15,000	35,000	20,000	psi	Ultimate Compressive Strength	N/mm ²	207	103	241	138
30,000	10,000	35,000	14,000	psi	Ultimate Flexural Strength	N/mm ²	207	69	241	97
2.5	0.8	3.0	1.0	psi*10 ⁵	Tensile Modulus	KN/mm ²	17.2	5.5	20.7	6.9
2.5	1.0	2.5	1.2	psi*10 ⁵	Compressive Modulus	KN/mm ²	17.2	6.9	17.2	8.3
1.6	0.8	2.0	1.0	psi*10 ⁵	Flexural Modulus	KN/mm ²	11.0	5.5	13.8	6.9
5,500	5,500	7,000	6,000	psi	Ultimate Shear Strength	N/mm ²	37.9	37.9	48.3	41.4
30,000	30,000	35,000	35,000	psi	Ultimate Bearing Stress	N/mm ²	207	207	241	241
25	4	30	5	ft-lb/in of notch	Izod Impact Strength	J/mm	1.33	0.21	1.60	0.27

Imperial			FULL SECTION IN BENDING			Metric		
FR-Polyester	FR-Vinylester	Units	Mechanical (Coupon)	Units	FR-Polyester	FR-Vinylester		
2.5	3	psi	Modulus of Elasticity	KN/mm ²	17.2	20.7		
20,000	25,000	psi	Tensile Strength	N/mm ²	137.9	172.4		
20,000	25,000	psi	Compressive Strength	N/mm ²	137.9	172.4		

Imperial			ELECTRICAL CHARACTERISTIC			Metric		
FR-Polyester	FR-Vinylester	Units	Mechanical (Coupon)	Units	FR-Polyester	FR-Vinylester		
200	200	V/mil	Electric Strength, s. t. in oil	kV/mm	7.88	7.88		
35	35	kV/inch	Electric Strength, short term in oil	kV/mm	1.38	1.38		
5.6	5.2	60 Hz	Dielectric Constant	60 Hz	5.6	5.2		
0.03	0.03	Inches/Inch/ ^o F	Dissipation Factor, 60 Hz.	μm/m· ^o C	54000	54000		
120	120	second	Arc Resistance	second	120	120		

Imperial			THERMAL CHARACTERISTIC			Metric		
FR-Polyester	FR-Vinylester	Units	Mechanical (Coupon)	Units	FR-Polyester	FR-Vinylester		
5 × 10 ⁻⁶	5 × 10 ⁻⁶		Thermal Coefficient of Expansion	μm/m· ^o C	9	9		
4	4	BTU/ft ² /Ht/ ^o F/in	Thermal Conductivity	J/m/min-m ² · ^o C	34.6	34.6		
0.28	0.28	BTU/lb/ ^o F	Specific Heat	J/kg· ^o C	1170	327.6		

Imperial			FIRE RETARDANT PROPERTIES			Metric		
FR-Polyester	FR-Vinylester	Units	Mechanical (Coupon)	Units	FR-Polyester	FR-Vinylester		
75/75	75/75	ign/burn, se.	Flame Resistance	ign/burn, se.	75/75	75/75		
100	100	rating	Intermittent Flame Test	rating	100	100		
20	15	max.	Surface Burning Characteristics	max.	20	15		

Imperial			PHYSICAL CHARACTERISTIC			Metric		
FR-Polyester	FR-Vinylester	Units	Mechanical (Coupon)	Units	FR-Polyester	FR-Vinylester		
0.065	0.065	lbs/inch ³	Density	Kg/m ³	1800	1800		
1.8	1.8		Specific Gravity	Ton/m ³	1.8	1.8		
50	50	Scale	Barcol Hardness	Scale	50	50		
0.5%	0.5%	max. %/weight	Water Absorption	max. %/weight	0.5%	0.5%		



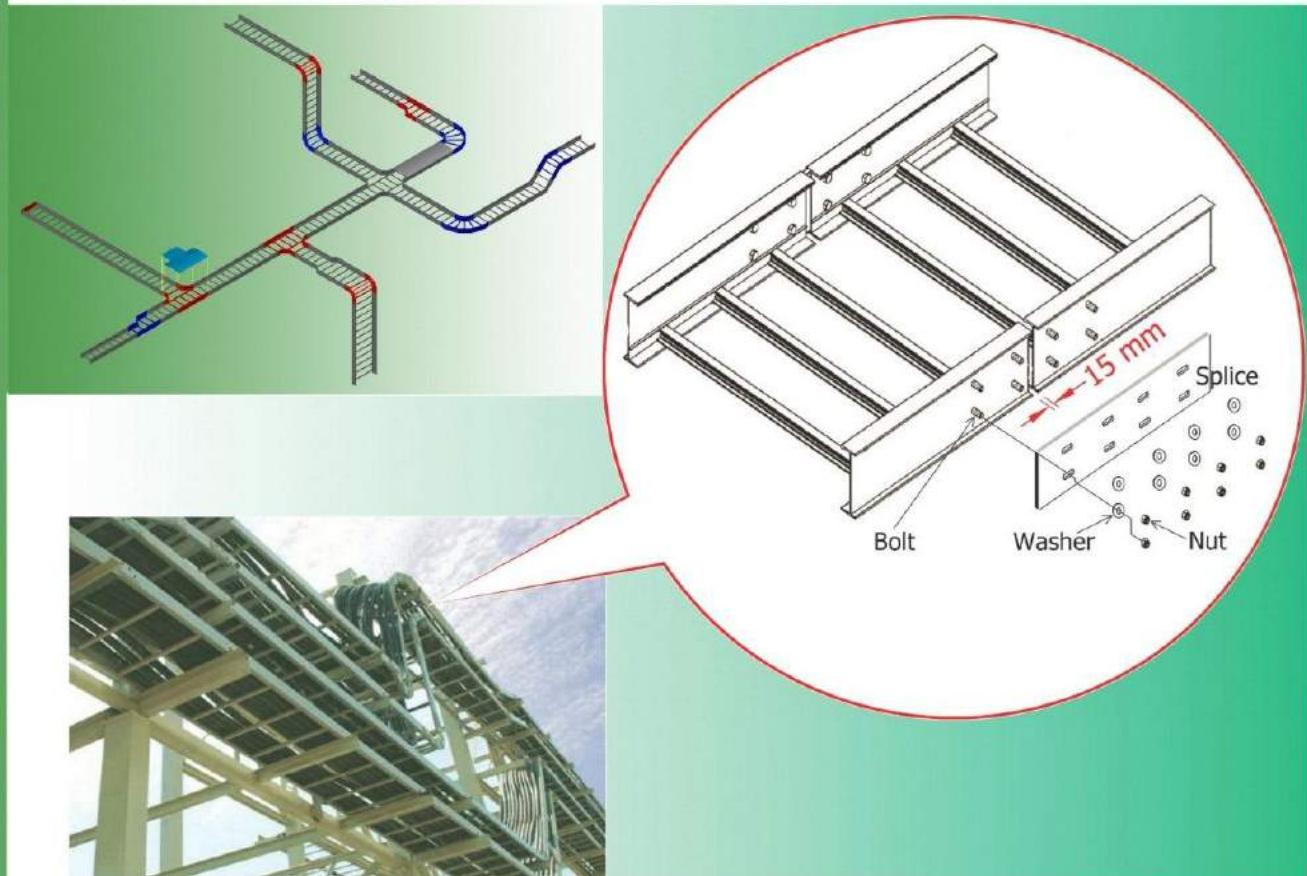
FRP TECHNICAL DATA

Thermal Contraction and Expansion of FRP

This side table compares **contraction and thermal expansion** based on temperature differences for the fiberglass, steel and aluminum cable trays. The indicated value represents the length of the cable tray which will produce 15 mm movement between the expansion connectors for the indicated temperature difference. Fiberglass has the fewest movements. **I TRAY** has an expansion connector to produce a total movement of 15 mm

Comparison Table

Temperature Differential	FRP (m)	Steel (m)	Aluminum (m)
14°C	126	97	49
28°C	63	48	25
42°C	42	32	16
56°C	32	24	12
69°C	25	19	10
83°C	21	16	8
97°C	17	13	6

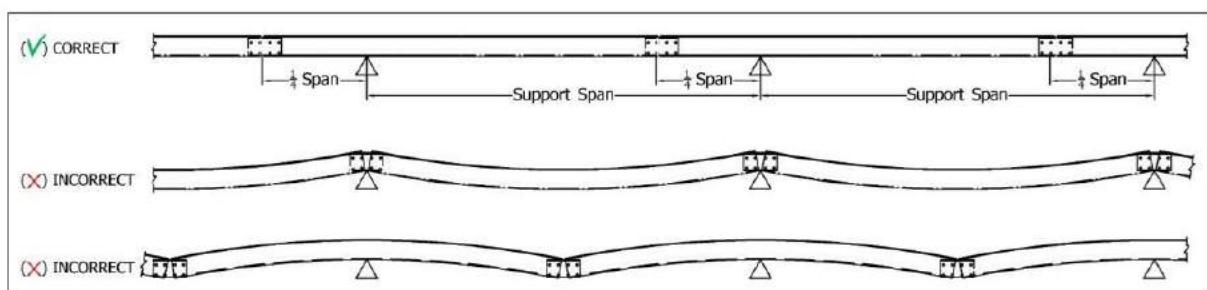


Effect of Temperature on FRP

Strength properties of Fiberglass Reinforced Plastics are reduced when continuously exposed to elevated temperatures. Working loads shall be reduced when based on the table to the right. Percentages shown are approximate. If unusual temperature conditions exist, please contact us for consultation.

Temperature	Polyester (Strength)	Vinylester (Strength)
24°C	100%	100%
38°C	90%	100%
52°C	78%	100%
66°C	68%	90%
79°C	60%	90%
93°C	52%	75%

Below freezing temperatures do not adversely affect the load rating capability of the tray. FRP does not become brittle at below freezing temperatures. Careful review should be made of applications involving service temperatures over 90°C.



COMPATIBILITY GUIDE

CORROSIVE CHEMICAL ENVIRONMENTS



In most applications i-TRAY cable support system is used because of its superior corrosion resistance. The following corrosion resistance guide offers performance recommendations for the most common environments. Additional data for less common environments are also available from the factory.

The general guidelines presented in this table take into consideration the normal applications of cable tray products and accessories where exposure to harsh chemicals is limited to fumes or vapors and occasional splashes at ambient temperatures. This information is provided as a guide only since it is impossible to anticipate every conceivable application. For specific applications, which may fall outside the scope of these guidelines, it is recommended that the factory be consulted directly. Special applications may require a screening test of material samples in the chemical environment of interest.

Chemical Environment	i-TRAY Performance		Chemical Environment	i-TRAY Performance	
	Poly Ester	Vinyl Ester		Poly Ester	Vinyl Ester
Acetic Acid	S	S	Barium Sulfate	S	S
Acetone	NR	NR	Benzene	S	NR
Acrylic Acid	NR	S	Benzoic Acid	S	S
Aluminum Chloride	S	S	Benzyl Alcohol	NR	NR
Aluminum Chlrohydroxide	S	S	Borax	S	S
Aluminum Citrate	S	S	Boric Acid	S	S
Aluminum Hydroxide	S	S	Brine	S	S
Aluminum Nitrate	S	S	Bromine, dry gas	NR	S
Aluminum Potassium Sulfate	S	S	Bromine, wet gas	NR	S
Aluminum Sulfate	S	S	Bromine, liquid	NR	NR
Ammonia, dry gas	S	S	Butyl Acetate	NR	NR
Ammonia, liquid	NR	NR	Butyl Alcohol, normal	S	S
Ammonium Acetate	NR	S	Butyl Cellosolve	S	NR
Ammonium Carbonate	NR	S	Butylene Glycol	S	S
Ammonium Chloride	S	S	Butyric Acid	S	S
Ammonium Citrate	S	S	Calcium Bisulfite	S	S
Ammonium Hydroxide	NR	S	Calcium Carbonate	S	S
Ammonium Nitrate	S	S	Calcium Chlorate	S	S
Ammonium Phosphate	S	S	Calcium Chloride	S	S
Ammonium Sulfate	S	S	Calcium Nitrate	S	S
Ammonium Sulfi de	NR	NA	Calcium Sulfate	S	S
Ammonium Sulfi te	NR	S	Caprylic Acid	S	S
Ammonium Thiosulfate	NR	S	Carbon Dioxide, gas	S	S
Amyl Acetate	NR	NR	Carbon Disulfide	NR	NR
Amyl Alcohol	S	S	Carbonic Acid	S	NA
Amyl Chloride	NR	NA	Carbon Monoxide, gas	S	S
Aniline Sulfate	S	S	Carbon Tetrachloride	NR	NR
Barium Acetate	S	S	Chloracetic Acid	NR	S
Barium Carbonate	S	S	Chlorinated Paraffi n	S	S
Barium Chlride	S	S	Chlorine, dry gas	S	S

NOTES :

S : Satisfactory performance.

NR : Not Recommended for use. However, acceptable performance may be provided if fumes are not highly concentrated.

NA : Not Available



COMPATIBILITY GUIDE

Chemical Environment	Performance		Chemical Environment	Performance	
	Poly Ester	Vinyl Ester		Poly Ester	Vinyl Ester
Chlorine, wet gas	NR	S	Hexachlorocyclopentadien	NR	NA
Chlorine, liquid	NR	NR	Hydrochloric Acid	S	S
Chlorine Dioxide	NR	S	Hydrofluoric Acid	NR	NA
Chlorine Water	S	S	Hydrogen Bromide, dry gas	S	S
Chlorobenzene	NR	NR	Hydrogen Chloride, dry gas	S	S
Chromic Acid	NR	S	Hydrogen Chloride, wet gas	S	S
Chromous Sulfate	S	S	Hydrogen Fluoride, vapor	NR	S
Citric Acid	S	S	Hydrogen Peroxide	NR	S
Coconut Oil	S	S	Hydrogen Sulfide, dry gas	S	S
Copper Acetate	S	S	Hydrogen Sulfide, wet gas	S	S
Copper Chloride	S	S	Hydroiodic Acid	NR	NA
Copper Cyanide	S	S	Hypochlorous Acid	NR	S
Copper Nitrate	S	S	sodecanol	S	S
Copper Sulfate	S	S	Isopropyl Palmitate	S	S
Cresylic Acid Fumes	NR	NR	Jet Fuel (JP-4)	S	S
Cresol	NR	NA	Kerosene	S	S
Crude Oil (Sour)	S	S	Lactic Acid	S	S
Cyclohexane	NR	S	Lead Acetate	S	S
Diallylphthalate	S	S	Lime Slurry	S	S
Diammonium Phosphate	NR	S	Linseed Oil	S	S
Dibutyl Ether	NR	S	Lithium Bromide	S	S
Dibutyl Phthalate	S	S	Lithium Chloride	S	S
Diesel Fuel	S	S	Magnesium Bicarbonate	S	S
Diethylene Glycol	S	S	Magnesium Carbonate	S	S
Dimethyl Phthalate	NR	S	Magnesium Chloride	S	S
Dimethyl Sulfoxide	NR	NA	Magnesium Nitrate	S	S
Diphenyl Ether	NR	S	Magnesium Sulfate	S	S
Dipropylene Glycol	S	S	Mercuric Chloride	S	S
Esters, Fatty Acid	S	S	Mercurous Chloride	S	S
Ethyl Alcohol	NR	S	Mercury	S	S
Ethylene Chlorohydrin	NR	S	Methyl Alcohol	S	NR
Ethylene Glycol	S	S	Methyl Ethyl Ketone	NR	NR
Fatty Acids	S	S	Milk Waste	S	S
Ferric Chloride	S	S	Mineral Oils	S	S
Ferric Nitrate	S	S	Monochlorobenzene	NR	NR
Ferric Sulfate	S	S	Naphtha	S	S
Ferrous Chloride	S	S	Naphthalene	S	S
Ferrous Nitrate	S	S	Nickel Chloride	S	S
Ferrous Sulfate	S	S	Nickel Nitrate	S	S
Fluoboric Acid	S	S	Nickel Sulfate	S	S
Fluosilicic Acid	NR	S	Nickel Sulfonate Plating	S	S
Formic Acid, vapor	S	S	Solution	S	S
Fuel Oil	S	S	Nitric Acid	NR	S
Furfural	NR	NR	Oleic Acid	S	S
Gasoline, Aviation	S	S	Olive Oils	S	S
Gasoline, Ethyl	S	S	Oxalic Acid	S	S
Gluconic Acid	S	S			
Glucose	S	S			
Glycerine	S	S			



COMPATIBILITY GUIDE

Chemical Environment	Performance		Chemical Environment	Performance	
	Poly Ester	Vinyl Ester		Poly Ester	Vinyl Ester
Palmitic Acid	S	S	Sodium Nitrite	S	S
Perchlorethylene	NR	S	Sodium Silicate, pH<12	NR	S
Perchloric Acid	NR	S	Sodium Silicate, pH>12	NR	S
Phenol	NR	NR	Sodium Sulfide	S	S
Phosphoric Acid	S	S	Sodium Sulfite	NR	S
Photographic Solutions	S	NA	Sodium Tetraborate	S	S
Phthalic Anhydride	S	S	Sodium Thiosulfate	S	S
Pickling Liquids, Acid	S	S	Sodium Xylene Sulfonate	NR	S
Pickling Liquids, Alkaline	NR	NA	Sorbitol Solutions	S	S
Picric Acids	NR	NA	Sour Crude Oil	S	S
Potassium Aluminum Sulfate	S	S	Soya Oil	S	S
Potassium Bicarbonate	S	S	Stannous Chloride	S	S
Potassium Bromide	S	S	Stearic Acid	S	S
Potassium Carbonate	NR	S	Styrene	NR	NR
Potassium Chloride	S	S	Sulfated Detergents	S	S
Potassium Ferricyanide	S	S	Sulfonated Detergents	NR	S
Potassium Ferrocyanide	S	S	Sulfonyl Chloride, Aromatic	NR	NA
Potassium Hydroxide	NR	S	Sulfur Dioxide, dry gas	S	S
Potassium Nitrate	S	S	Sulfur Dioxide, wet gas	S	S
Potassium Permanganate	NR	S	Sulfuric Acid, vapor	S	S
Potassium Persulfate	NR	S	Sulfurous Acid	NR	S
Potassium Sulfate	S	S	Tannic Acid	S	S
Propylene Glycol	S	S	Tartaric Acid	S	S
Silicic Acid	S	NA	Tetrachloroethylene	NR	S
Silver Nitrate	S	S	Tetrapotassium	NR	NA
Sodium Acetate	S	S	Pyrophosphate	NR	S
Sodium Benzoate	S	S	Tetrasodium Pyrophosphate	NR	S
Sodium Bicarbonate			Toulene	NR	S
Saturated	S	S	Toluene Di-isocyanate fumes	NR	NA
Sodium Bisulfate	S	S	Trichlorethylene, fumes	NR	NR
Sodium Borate	S	S	Trichloroacetic Acid	NR	S
Sodium Bromide	S	S	Trimethylamine Hydrochloride S	S	S
Sodium Carbonate	NR	S	Triphenyl Phosphite	NR	S
Sodium Chlorate	NR	S	Trisodium Phosphate	NR	S
Sodium Chloride	S	S	Turpentine, Pure Gum	NR	S
Sodium Chloride			Urea	S	S
Saturated Chlorine	NR	S	Vinegar	S	S
Sodium Chlorite	NR	S	Water, Cooling Tower	S	S
Sodium Cyanide	S	S	Water, Demineralized	S	S
Sodium Dichromate	NR	S	Water, Distilled	S	S
Sodium Di-phosphate	S	S	Water, Mine	S	S
Sodium Ferricyanide	S	S	Water, Sea	S	S
Sodium Ferrocyanide	S	S	Water, Steam Condensate	S	S
Sodium Fluoride	NR	S	Water, Tap	S	S
Sodium Hydroxide	NR	S	Xylene	NR	S
Sodium Hypochlorite	NR	S	Zinc Chloride	S	S
Sodium Hyposulfite	S	NA	Zinc Nitrate	S	S
Sodium Mono-phosphate	S	S	Zinc Sulfate	S	S
Sodium Nitrate	S	S			

NOTES :

S : Satisfactory performance.

NR : Not Recommended for use. However, acceptable performance may be provided if fumes are not highly concentrated.

NA : Not Available



CABLE TRAY LOAD STANDARD

Section 4 of **NEMA FG 1** provides the performance standards and class designations for fiberglass cable tray systems. There are three working load classifications for FRP cable ladder based on :

- 20 feet (6 meters) support spans,
- minimum safety factor of 1.5

Class	Working Load
A	50 Lbs/Ft (75 Kg/m)
B	75 Lbs/Ft (112 Kg/m)
C	100 Lbs/Ft (150 Kg/m)

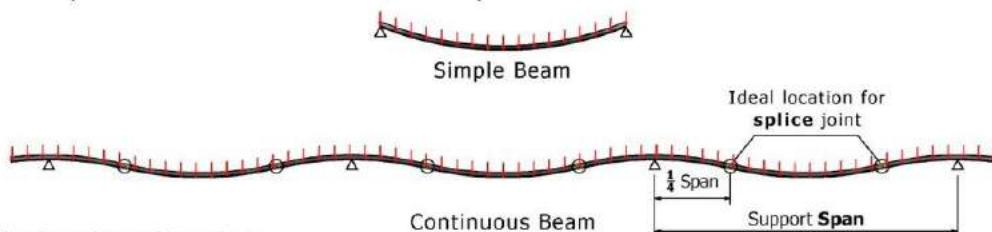
i-TRAY Cable Support System can be offers a range of ladder and tray products that are which offers a Working Load with safety factor of 1.7, or working load exceeds the value in the table above Contact us for more specific information.

Span support criteria shall be specified refer to the following table

Support Span	Working Load		
	Class A	Class B	Class C
20 Ft (6 m)	50 Lbs/Ft (75 Kg/m)	75 Lbs/Ft (112 Kg/m)	100 Lbs/Ft (149 Kg/m)
18 Ft (5 m)	61 Lbs/Ft (91 Kg/m)	92 Lbs/Ft (137 Kg/m)	123 Lbs/Ft (183 Kg/m)
16 Ft (5 m)	78 Lbs/Ft (116 Kg/m)	117 Lbs/Ft (175 Kg/m)	156 Lbs/Ft (232 Kg/m)
14 Ft (4 m)	100 Lbs/Ft (150 Kg/m)	150 Lbs/Ft (223 Kg/m)	200 Lbs/Ft (300 Kg/m)
12 Ft (4 m)	139 Lbs/Ft (207 Kg/m)	208 Lbs/Ft (310 Kg/m)	- -
10 Ft (3 m)	200 Lbs/Ft (298 Kg/m)	- -	- -

Deflection Considerations

Cable Tray load testing as specified by NEMA Standard FG 1 requires the test article to be a single length of tray simply supported at each end (referred to as a "simple beam" configuration - see diagram below). This requirement was established to standardize testing and because it is impractical to test large tray system assemblies to destruction. Most actual tray installations consist of multiple lengths of connected tray with multiple supports (referred to as a "continuous beam configuration"). The most significant difference between continuous versus simple beam configuration is that for continuous beam, the presence of installed lengths of tray affect the deflection of the tray in the section of interest.



Installation/Application

Guidance for cable tray installation, supports and support locations and thermal expansion/contraction is provided in NEMA FG 1. The in-stallation instructions for supports and support locations contained in the Installation Procedures Section of this catalog are based on the Application Information Section of NEMA FG 1.

Concentric Static Load (by request)

A concentrated static load is not included in the above table. Some user applications may require that a given concentrated static load be imposed over and above the working load. Such concentrated static load represents a static weight applied between the side rail at mid span. When so specified, the concentrated static load may be converted to an equivalent load (We) in pounds per linear foot (kg/m) using the formula to the below right and added to the static weight of cable in the tray. This combined load may be used to select a suitable load / span designation.

If the combined load exceeds the working load shown, please contact us. This data was obtained from the NEMA and NEC Standards Publications and other sources to assist in the proper selection of the most appropriate cable tray type offered by i-TRAY

$$We = \frac{2 \times (\text{Concentrated Static Load})}{\text{span length (ft or m)}}$$



INSTALLATION GUIDE

The following information shall be used as a guideline for **ITRAY** Cable Support System installation.

• Special Considerations

With few exceptions, the installation of fiberglass cable tray does not differ from that of metal tray. All standard installation practices and procedures apply. In general, special handling is not required.

• Tools Required

Fiberglass tray is easy to cut and drill. For most installations, standard tools are sufficient. However, for large jobs where many sections require cutting and drilling, high speed steel tools may become dull due to the abrasiveness of glass. In such installations, the use of carbide tipped drills and abrasive (grit) saw blades is recommended.

• Cutting Tray in the Field

Tray may be easily cut on site using a standard hacksaw. If some type of power saw is used, abrasive grit-blades work best. When using a power saw, dust filter masks should be worn. Gloves and long sleeve clothing are also recommended.

• Sealing Edges

All cut edges should be coated with the resin. In harsh environments, proper coating insures against future migration of corrosive elements into the cut sections.

• Drilling Holes for Splice Plates

When drilling holes for splice plates, provide drill bit properly sized hole. Clamp a splice plate (use a C-clamp) to the side of the tray and use splice plate as a drilling template. The plate should be positioned to allow 3/16" (5 mm) gap between joined side rails

• Locating Splice Joints

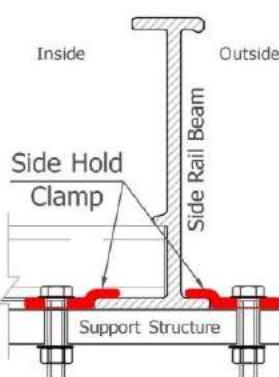
When possible, splice joints should be placed at or near the quarter point of any given support span. This is the point of least mechanical stress. For example: with a section of tray resting on supports spaced 20 ft (6 m) apart, the splice plate joints should be located 5 ft (1.5 m) from supports (support span divided by 4).

• Expansion Splice Plates

Each **ITRAY** expansion splice plate allows 5/8" (15mm) total expansion or contraction under varying temperature conditions. A complete table showing expansion plate placement intervals appears in the **ITRAY** Accessories section of this catalog.

• Clamping and Securing Cable Tray

ITRAY provides a special clamp "Side Hold Clamp" which grips the bottom flange of the tray to prevent lateral movement. This clamp is commonly used to prevent lateral tray movement when long runs rest on I-Beams or other horizontal support members.

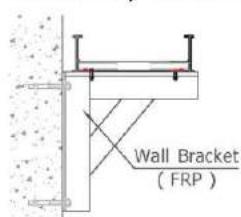


This Side Hold Down Clamp also available to be used at inside or outside side of side rail beam and also can be used to secure tray against a vertical wall or bulkhead. In such applications, the clamp should be located installed to and below a rung for extra support.

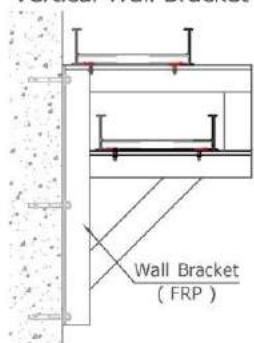
When securing tray to a flat vertical bulkhead, it is also acceptable to drill and bolt directly through the bottom flange of the tray. Holes should be centered of flange.

• Wall Brackets

ITRAY Cable Support System also provides FRP wall brackets may be used to support cable tray which is installed to a vertical wall.



Vertical Wall Bracket



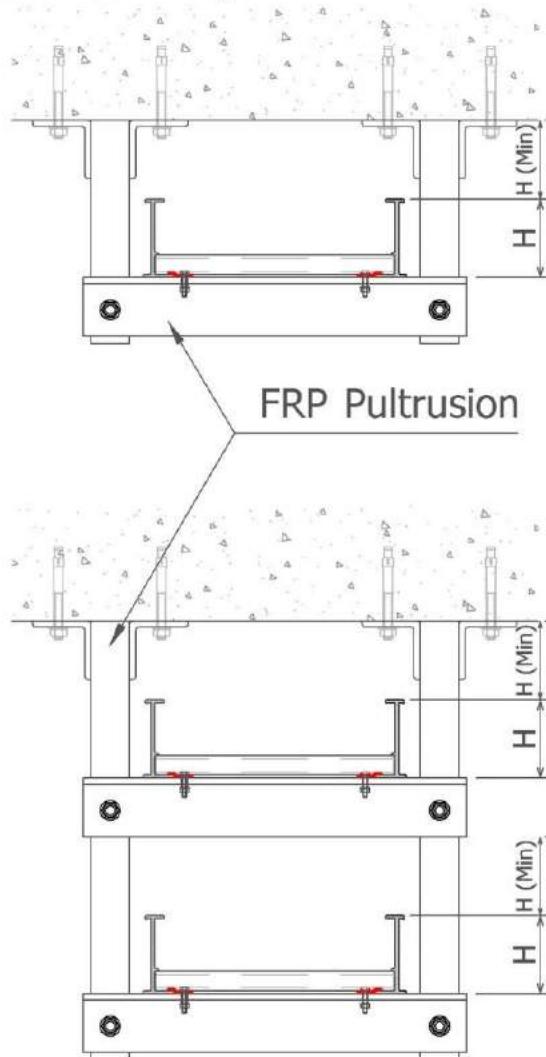
For special designs with more load specifications, please contact us for consultation



INSTALLATION GUIDE

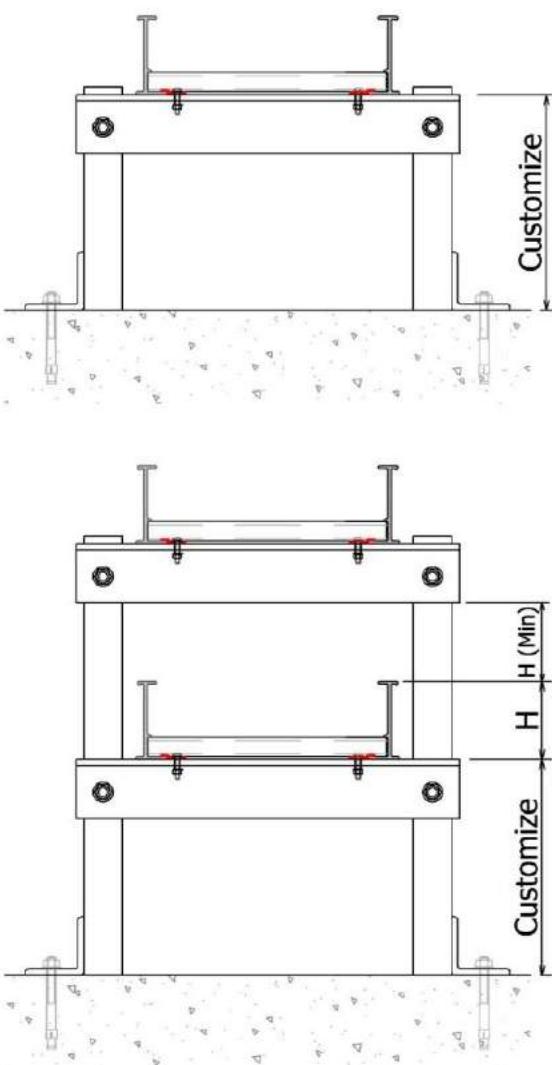
• Overhead Hanging Support

i-TRAY also provide FRP hanging support system as pictured below may be used to support tray in areas where tray cannot be placed on wall or lower floor level or other existing structures. Hanging support structure are assembled in the field using FRP Pultruded Structure such as Square Tube, C Channel, Angle or H-Beam which selected according to the specified load. Care should be taken to configure the hanger as shown. When properly assembled, the hanger, pictured below, can support 1000 lbs (450 kgs) with a safety factor of 4 (assuming a balanced load). For NEMA Class C Tray rated at 100 lbs.lft, in this condition we recommend a minimum of one hanger for every 10 feet of tray (1000 lbs. divided by 100 lbs.lft. = 10 ft).



• Floor Mounted Support

The simplest and easiest system support is installed on the floor surface. Cable Tray is placed on the floor with or without support, and it is possible to stack several cable tray lines. However, the i-TRAY Cable Support System can provide many of the best solutions to achieve effective power at cost-efficient. Because our cable support system design and calculate accurately. Another benefit is that the entire i-TRAY profile structure is from FRP materials processed by pultrusion machines.

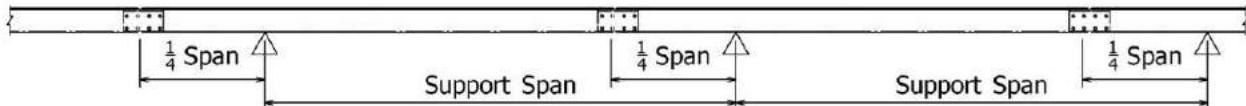


i-TRAY Cable Support System available to provide design services and to support system specifically site condition and installation. Contact us to consult in order to achieve an efficient cost

INSTALLATION GUIDE

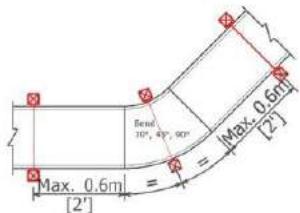
• Straight Sections Support

Length of Span Supports must be located so that Splice Plate at 1/4 of span in multiple span condition Splice at L/4 (splice joints) between horizontal runs fall between the support point and the quarter point of the span. Support Standard engineering practice requires that the splice joints be located where they will resist little or no bending moment. This allows the cable tray system to act as a continuous member with spans working in conjunction with one another to resist loading. When a cable tray system is installed with the splice joints located directly over the support, the previous con-tinuous span condition is changed to one of a number of simple spans. These spans act independently of each other and ex-cessive stress will occur at substantially less loading. Vertical straight lengths should be supported at intervals dictated by the building structure not exceeding 24 Ft. (7.3 m) on centers. A support should be located 2 Ft (0.6m) on each side of an expansion connection.



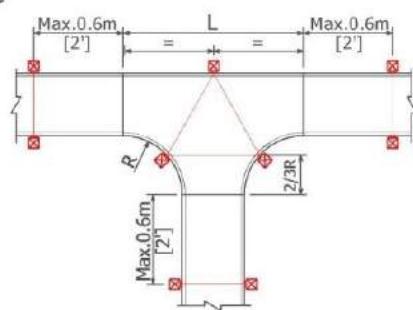
• Horizontal Fitting Supports

Supports should should be placed within 2 Ft. (.61m) of each fitting extremity, and as follows: 90° supports at the 45° point of the arc, 45° supports at the 22.5° point of the arc (except for the 12" radius), 30° supports at the 15° point of the arc (except for the 12" radius).



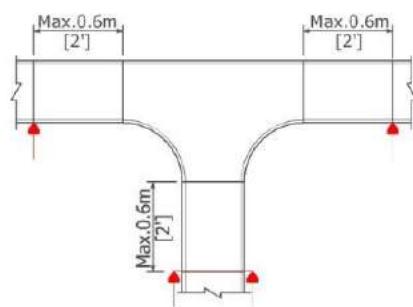
• Horizontal Tee Supports

Supports should be placed within 2 Ft. (.61m) of each of the three openings connected to other cable tray items for 12" (305mm) radius. On all other radii, at least one support should also be placed under each side rail of the tee



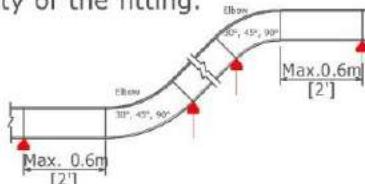
• Vertical Tee Supports

Vertical tee fittings should be supported within 2 Ft. (.61m) of each fitting extremity.



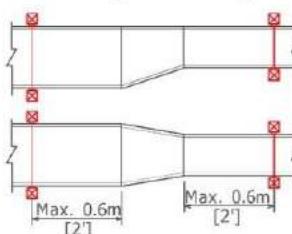
• Vertical Fitting Supports

Vertical fittings at the top runs should be supported at each end. Fittings at the bottom of runs should be supported at the top of the fitting, and within 2 Ft. (.61m) of the lower extremity of the fitting.



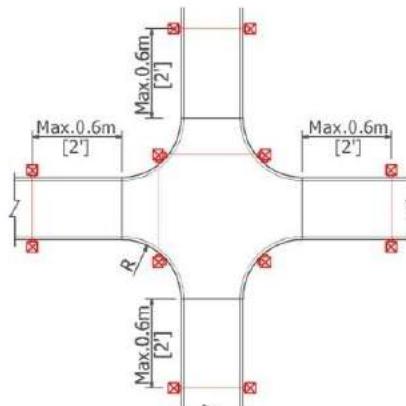
• Reducer Fitting Supports

Straight reducer and right/left hand reducer fittings should be supported within 2 Ft. (0.6m) of each fitting extremity.



• Horizontal Cross Supports

Supports should be placed within 2 Ft. (.61m) of the four openings connected to other cable tray items for the 12" (305mm) radius. On all other radii, at least one support should also be placed under each side rail of the cross.



SELECTION GUIDE



Several criteria must be considered in selecting **ITRAY** Cable Support System for your application. **Factors include :**

- cable diameter and weight,
- tray fill capacity,
- load capacity and safety factor,
- support system,
- support spans,
- deflection,
- application environment,
- space restrictions,
- fire resistance,
- future expansion and cost

Article 318 of the National Electric Code provides cable size and cable fill information.

NEMA Standards Publication No. FG 1, FRP Cable Tray Systems, specifies manufacturing standards, performance standards, load class designation specifications and application information such as support span guidelines and temperature deflection information.

The following guidelines will assist you in your selection of **ITRAY** Cable Support System:

Step 1:

Determine the resin system required based on the application, location and environment (consult the corrosion resistance guide in the Application Environments section). **ITRAY** Cable Support System is available in polyester and vinyl ester resin systems. Vinyl ester provides more corrosion resistance than polyester in some environments.

Step 2 :

Determine tray loading depth and width. Depending on the size and number of cables needed, use the guidelines in NEC Article 318-8 through -12 to determine tray loading depth and width.

Step 3 :

Determine rung pitch. The smallest cable or wire bundle determines the rung pitch for ladder type trays. In general, use 16" (400mm) rung pitch for 2" (50mm) O.D or larger, 8" (200mm) or 12" (300mm) rung pitch for cables from 1"to 2" O.D, six inch run pitch for cables from 1/2" (12mm) to 1" (25mm) O.D and fiberglass channel type trays for smaller cables.

Step 4 :

Determine the cable load. Calculate weight per length to get the load of the cables to be supported. Consider any extraneous or external loads such as wind, ice, snow, etc. and add this value to the cable load.

Step 5 :

Determine the tray style. **ITRAY** offers two type cable support, ladder tray and solid bottom tray channel. Refer to the Tray List section of this catalog to determine tray type.

Step 6 :

Determine the support spacing. Normally, cable tray systems are supported at 8 ft (2.4m) to 20 ft (6m) pitch. Tray may be supported by wall mount brackets, trapeze suspensions, supports from existing structures or it may be floor mounted to minimize deflection. Splice joints should be placed at or near the quarter point of the span. This guideline should be rigidly followed and non-compliance granted only after careful engineering analysis because of high cable tray stresses which can be generated.

Step 7 :

Determine the NEMA load class. The cable tray system should be determined by the combination of cable load (*Step 4*) and support spacing (*Step 5*). Consult the Structural Design section of this catalog or NEMA FG 1 to assist you in the selection of a tray system that meets your requirements.

NEMA Working Load Class *

Class	Working Load
A	50 Lbs/Ft (75 Kg/m)
B	75 Lbs/Ft (112 Kg/m)
C	100 Lbs/Ft (150 Kg/m)

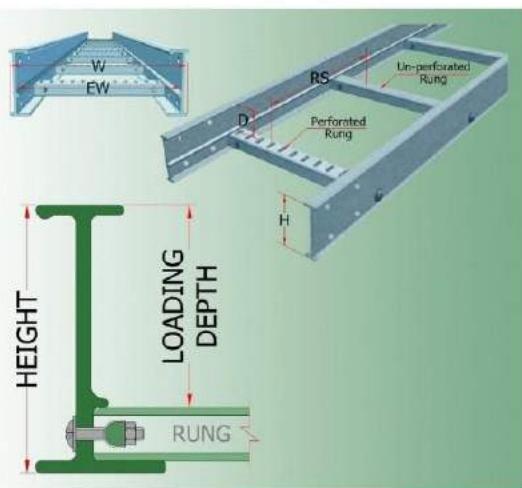
* Working load classifications based on 20 ft (6 m) support spans Chart not applicable for solid bottom channel tray **ITRAY** ICT-Series.



PRODUCT LIST AND SELECTION GUIDE

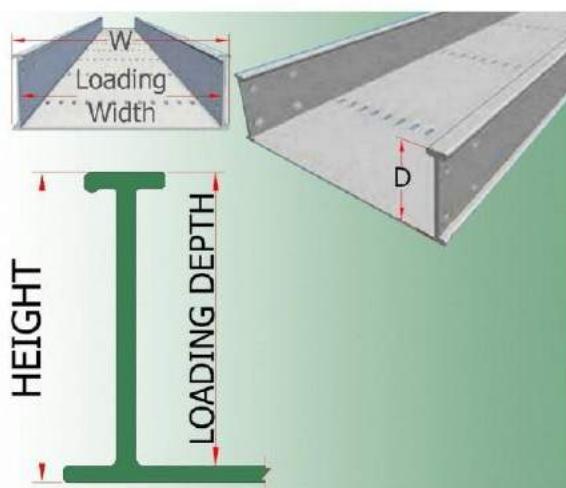
Before selecting our cable tray product, please note and refer to **ITRAY** product standard below. If it requires special specification you can specify the product according to your special request

STANDARD	OPTION BY REQUEST
Material	Polyester Class 1 / Isthophthalic (P)
Cobr	RAL-7035 (Light Grey) eq. N-7 Munsell
Manufacturing	Pultrusion Process
Fire Rate	Class 1 FS <25 (ASTM E-84)
Length	3m
Width	150 - 900mm
Height	75, 100 & 150
Rung Spacing	300mm
Rung Assemble	FRP Rod with bolted
Assembly	Hot Deep Galvanized Steel Bolt
Splice Plate	FRP splice plate
Elbow Radius	300 mm (Inside Radius
Reducer	3 x (W1-W2)
Angles	45° or 90°
	Vinyl ester (V) or Bisphenolic (B) Available by request
	Non Fire Retardant 6m and possible length between 3 to 6m 1000-1200mm (special design) 200 mm 120 - 500mm FRP rod & Epoxy are available SUS-304, SUS-316, SUS-316L and FRP SUS-304, SUS-316, SUS-316L and HDGS 450-600 & 900mm Special request is available 30° or 60° by request



IST 100 - LT 300 - 300 - 3 - V

Product Code	Side Rail Height	Type of Tray	Loading Width	Rung Space	Length of Tray	Resin System
IST : Straight Tray	75 mm	LT : Ladder Tray	150 mm	50 mm	Standard : 3m	P : Polyester
IHB : Horizontal Bend	100 mm	CT : Channel Tray	200 mm	by request : 4 m	by request : 6 m	V : Vinyl ester
IIB : Inside Vertical Bend	150 mm		250 mm	8 m	8 m	B : Bisphenolic
IOB : Outside Vertical Bend			300 mm	8 m	max. 12 m	
IHT : Horizontal Tee			450 mm			
IVT : Vertical Tee			600 mm			
IR : Right Reducer			750 mm			
ILR : Left Reducer			900 mm			
IHC : Horizontal Cross						
ICC : Convex Cover						
IFC : Flat Cover						
ISP : Splice Plate						
IEP : End Plate						



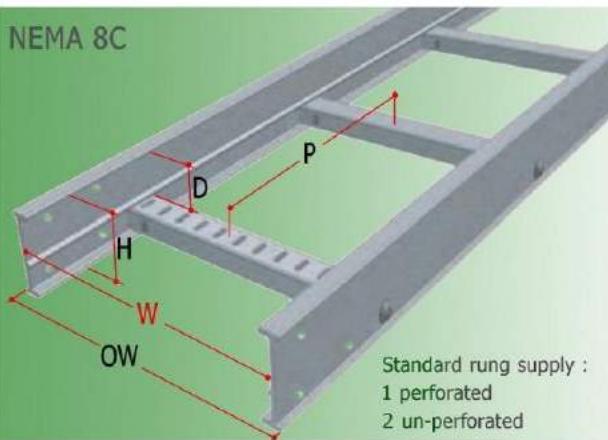
IST 75 - CT 300 - 3 - V

Product Code	Side Rail Height	Type of Tray	Loading Width	Length of Tray	Resin System
IST : Straight Tray	50 mm	CT : Channel Tray	150 mm	Standard : 3m	P : Polyester
IHB : Horizontal Bend	75 mm	LT : Ladder Tray	200 mm	by request : 4 m	V : Vinyl ester
IIB : Inside Vertical Bend	100 mm		300 mm	6 m	B : Bisphenolic
IOB : Outside Vertical Bend			450 mm	8 m	
IHT : Horizontal Tee			600 mm	max. 12 m	
IVT : Vertical Tee					
IR : Right Reducer					
ILR : Left Reducer					
IHC : Horizontal Cross					
ICC : Convex Cover					
IFC : Flat Cover					
ISP : Splice Plate					
IEP : End Plate					



PRODUCT LIST AND SELECTION GUIDE

STRAIGHT LADDER TRAY

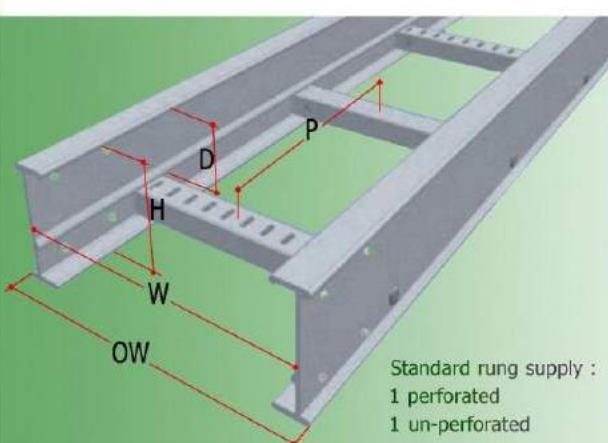


The above list is our standard with 3m length and Isophthalic Polyester resin FR Rated, for other length is available for 3 ~ max. 12m in any size. For other resin grade just fill in option (O) with initial character : (V) = Vinyl ester or (B) = Bisphenolic system. For other resin type longer delivery time may apply.

Cable Ladder Tray Type ILT-75 NEMA 8C
For light duty and general industrial applications

STRAIGHT SECTION LADDER TRAY	Side Rail Height H (mm)	Load Width W (mm)	Overall Width OW (mm)	Loading Depth D (mm)	Rung Space P (mm)	Std Length L (m)	Safety Factor	Tray Weight (kg/m)
ILT 75 -CL 150 -300 -3 - (O)	75	150	185	51	300	3	1.5	2.0
ILT 75 -CL 200 -300 -3 - (O)	75	200	235	51	300	3	1.5	2.1
ILT 75 -CL 300 -300 -3 - (O)	75	300	335	51	300	3	1.5	2.3
ILT 75 -CL 400 -300 -3 - (O)	75	400	435	51	300	3	1.5	2.5
ILT 75 -CL 450 -300 -3 - (O)	75	450	485	51	300	3	1.5	2.6
ILT 75 -CL 500 -300 -3 - (O)	75	500	535	51	300	3	1.5	2.7
ILT 75 -CL 600 -300 -3 - (O)	75	600	635	51	300	3	1.5	2.8

Also available to provide with closed rungs, for food process or other clean or wet room applications. Available related fitting and accessories are supplied.

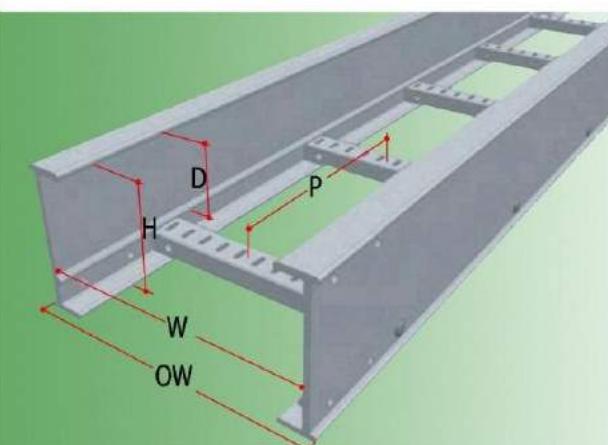


The above list is our standard with 4m length and Isophthalic Polyester resin FR Rated, for other length is available for 3 ~ max. 12m in any size. For other resin grade just fill in option (O) with initial character : (V) = Vinyl ester or (B) = Bisphenolic system. For other resin type longer delivery time may apply.

Cable Ladder Tray Type ILT-100 NEMA 16A
For medium duty and general industrial applications

STRAIGHT SECTION LADDER TRAY	Side Rail Height H (mm)	Load Width W (mm)	Overall Width OW (mm)	Loading Depth D (mm)	Rung Space P (mm)	Std Length L (m)	Safety Factor	Tray Weight (kg/m)
ILT 100 -CL 200 -300 -4 - (O)	100	200	250	76	300	4	1.5	3.2
ILT 100 -CL 300 -300 -4 - (O)	100	300	350	76	300	4	1.5	3.4
ILT 100 -CL 450 -300 -4 - (O)	100	450	500	76	300	4	1.5	3.7
ILT 100 -CL 500 -300 -4 - (O)	100	500	550	76	300	4	1.5	3.7
ILT 100 -CL 600 -300 -4 - (O)	100	600	650	76	300	4	1.5	3.9
ILT 100 -CL 800 -300 -4 - (O)	100	800	850	76	300	4	1.5	4.3
ILT 100 -CL 900 -300 -4 - (O)	100	900	950	76	300	4	1.5	4.5

Also available to provide with closed rungs (175, 200, 225 and 250mm), for food process or other clean or wet room applications. Available related fitting and accessories are supplied.



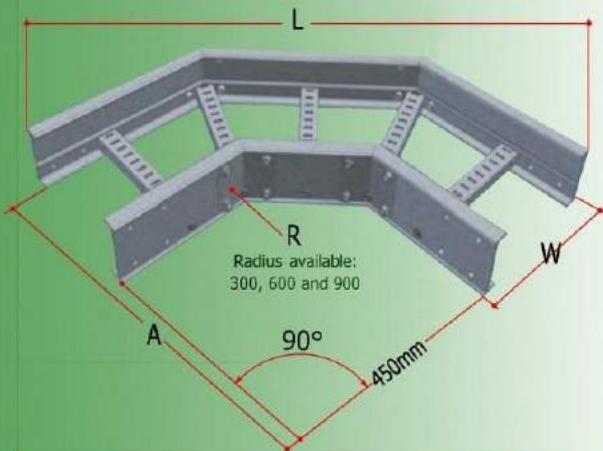
Cable Ladder Tray Type ILT-150 NEMA 20C
For heavy duty and industrial applications

STRAIGHT SECTION LADDER TRAY	Side Rail Height H (mm)	Load Width W (mm)	Overall Width OW (mm)	Loading Depth D (mm)	Rung Space P (mm)	Std Length L (m)	Safety Factor	Tray Weight (kg/m)
ILT 150 -CL 200 -300 -4 - (O)	150	200	250	126	300	4	1.5	6.3
ILT 150 -CL 300 -300 -4 - (O)	150	300	350	126	300	4	1.5	6.5
ILT 150 -CL 450 -300 -4 - (O)	150	450	500	126	300	4	1.5	6.8
ILT 150 -CL 500 -300 -4 - (O)	150	500	550	126	300	4	1.5	6.9
ILT 150 -CL 600 -300 -4 - (O)	150	600	650	126	300	4	1.5	7.1
ILT 150 -CL 750 -300 -4 - (O)	150	750	800	126	300	4	1.5	7.4
ILT 150 -CL 800 -300 -4 - (O)	150	800	850	126	300	4	1.5	7.5
ILT 150 -CL 900 -300 -4 - (O)	150	900	950	126	300	4	1.5	7.7
ILT 150 -CL 750 -300 -6 - (O)	150	750	800	126	300	6	1.5	7.4
ILT 150 -CL 800 -300 -6 - (O)	150	800	850	126	300	6	1.5	7.5
ILT 150 -CL 900 -300 -6 - (O)	150	900	950	126	300	6	1.5	7.7

Also available to provide with closed rungs, for food process or other clean or wet room applications. Available related fitting and accessories are supplied. The above list is our standard with 4m length and Isophthalic Polyester resin FR Rated, for other length is available for 3 ~ max. 12m in any size. For other resin grade just fill in option (O) with initial character : (V) = Vinyl ester or (B) = Bisphenolic system. For other resin type longer delivery time may apply.

PRODUCT LIST AND SELECTION GUIDE

HORIZONTAL 90° BEND



HORIZONTAL BEND 90° - R300
(For Ladder Tray ILT-100)

HORIZONTAL BEND TYPE	Loading Depth D (mm)	Radius R (mm)	OVERAL DIMENSION				Weight (Approx.) (Kg)
			H (mm)	OW (mm)	A (mm)	L (mm)	
IHB 100 -CL 200 -300 - 90	76	300	100	235	650	1286	4.7
IHB 100 -CL 300 -300 - 90	76	300	100	335	750	1443	5.4
IHB 100 -CL 450 -300 - 90	76	300	100	485	900	1679	6.6
IHB 100 -CL 500 -300 - 90	76	300	100	535	950	1757	7.0
IHB 100 -CL 600 -300 - 90	76	300	100	635	1050	1914	7.7
IHB 100 -CL 800 -300 - 90	76	300	100	835	1250	2228	9.3
IHB 100 -CL 900 -300 - 90	76	300	100	935	1350	2385	10.0

HORIZONTAL BEND 90° - R300
(For Ladder Tray ILT-100)

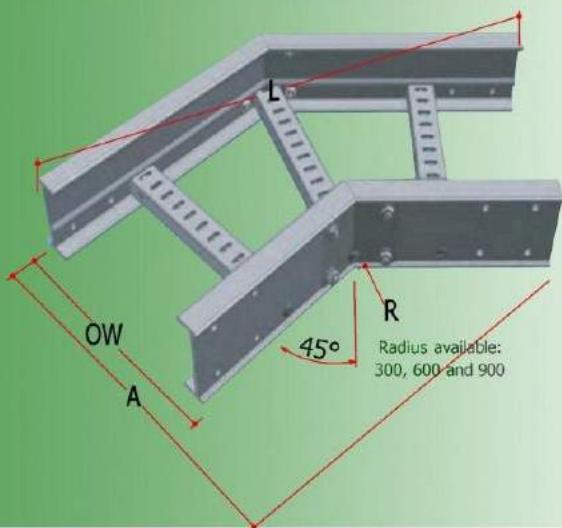
HORIZONTAL BEND TYPE	Loading Depth D (mm)	Radius R (mm)	OVERAL DIMENSION				Weight (Approx.) (Kg)
			H (mm)	OW (mm)	A (mm)	L (mm)	
IHB 100 -CL 200 -300 - 90	76	300	100	235	650	1286	4.7
IHB 100 -CL 300 -300 - 90	76	300	100	335	750	1443	5.4
IHB 100 -CL 450 -300 - 90	76	300	100	485	900	1679	6.6
IHB 100 -CL 500 -300 - 90	76	300	100	535	950	1757	7.0
IHB 100 -CL 600 -300 - 90	76	300	100	635	1050	1914	7.7
IHB 100 -CL 800 -300 - 90	76	300	100	835	1250	2228	9.3
IHB 100 -CL 900 -300 - 90	76	300	100	935	1350	2385	10.0

HORIZONTAL BEND 90° - R300
(For Ladder Tray ILT-150)

HORIZONTAL BEND TYPE	Loading Depth D (mm)	Radius R (mm)	OVERAL DIMENSION				Weight (Approx.) (Kg)
			H (mm)	OW (mm)	A (mm)	L (mm)	
IHB 150 -CL 200 -300 - 90	126	300	150	235	650	1286	9.0
IHB 150 -CL 300 -300 - 90	126	300	150	335	750	1443	10.3
IHB 150 -CL 450 -300 - 90	126	300	150	485	900	1679	12.3
IHB 150 -CL 500 -300 - 90	126	300	150	535	950	1757	12.9
IHB 150 -CL 600 -300 - 90	126	300	150	635	1050	1914	14.2
IHB 150 -CL 750 -300 - 90	126	300	150	785	1200	2150	16.1
IHB 150 -CL 800 -300 - 90	126	300	150	835	1250	2228	16.8
IHB 150 -CL 900 -300 - 90	126	300	150	935	1350	2386	18.1

ITRAY available to provide this horizontal mitered bend in radius 600, 750 and 900 mm with fix lamination or splice bolted system

HORIZONTAL 45° BEND



HORIZONTAL BEND 45° - R300
(For Ladder Tray ILT-75)

HORIZONTAL BEND TYPE	Loading Depth D (mm)	Radius R (mm)	OVERAL DIMENSION				Weight (Approx.) (Kg)
			H (mm)	OW (mm)	A (mm)	L (mm)	
IHB 75 -CL 150 -300 - 45	51	300	75	185	600	657	2.0
IHB 75 -CL 200 -300 - 45	51	300	75	235	650	696	2.1
IHB 75 -CL 300 -300 - 45	51	300	75	335	750	774	2.5
IHB 75 -CL 400 -300 - 45	51	300	75	435	750	853	2.8
IHB 75 -CL 450 -300 - 45	51	300	75	485	750	892	3.0
IHB 75 -CL 500 -300 - 45	51	300	75	535	750	931	3.2
IHB 75 -CL 600 -300 - 45	51	300	75	635	750	1010	3.6

HORIZONTAL BEND 45° - R300
(For Ladder Tray ILT-100)

HORIZONTAL BEND TYPE	Loading Depth D (mm)	Radius R (mm)	OVERAL DIMENSION				Weight (Approx.) (Kg)
			H (mm)	OW (mm)	A (mm)	L (mm)	
IHB 100 -CL 200 -300 - 45	76	300	100	235	750	735	2.7
IHB 100 -CL 300 -300 - 45	76	300	100	335	750	814	3.1
IHB 100 -CL 450 -300 - 45	76	300	100	485	750	932	3.7
IHB 100 -CL 500 -300 - 45	76	300	100	535	750	971	3.9
IHB 100 -CL 600 -300 - 45	76	300	100	635	750	1049	4.3
IHB 100 -CL 800 -300 - 45	76	300	100	835	750	1206	5.2
IHB 100 -CL 900 -300 - 45	76	300	100	935	750	1285	5.6

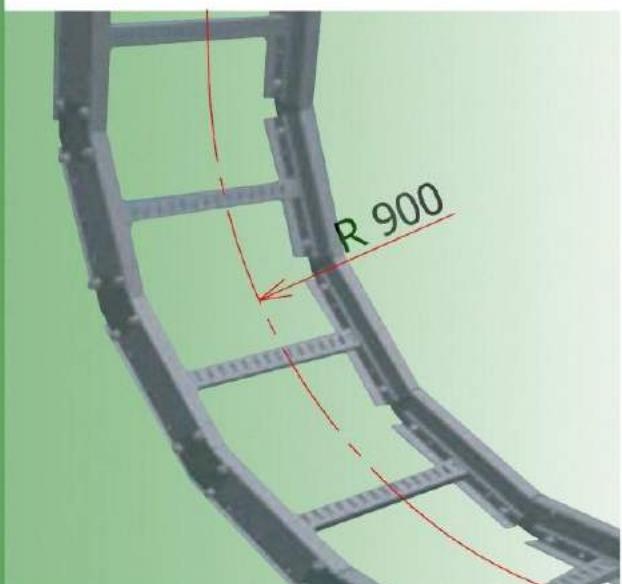
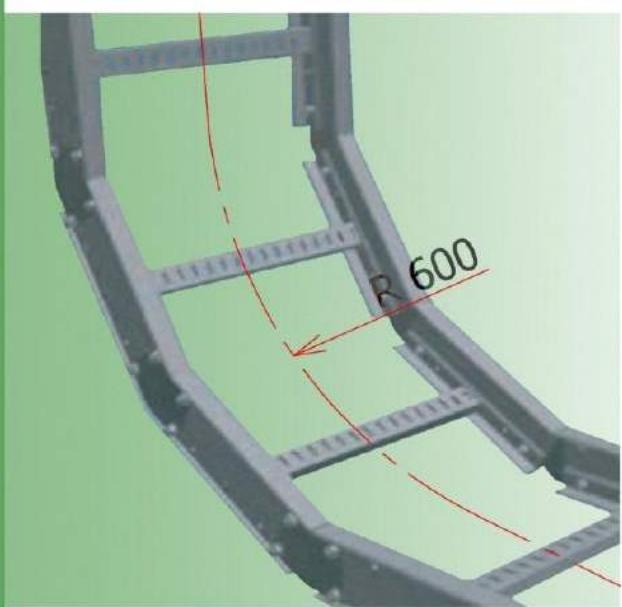
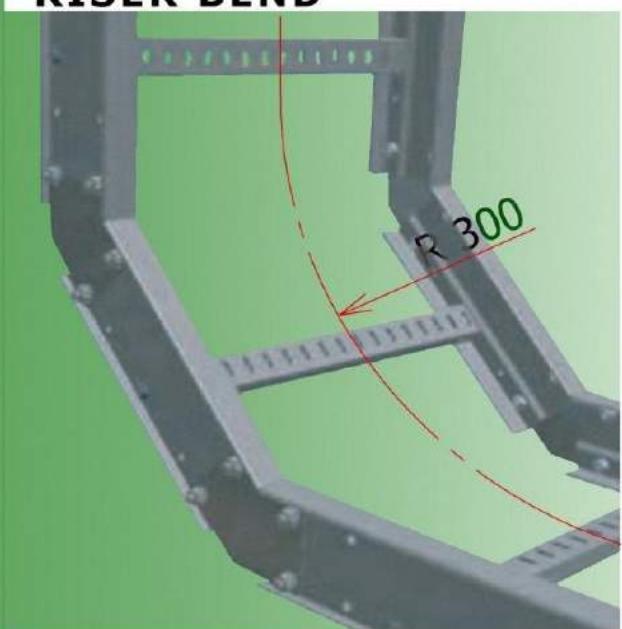
HORIZONTAL BEND 45° - R300
(For Ladder Tray ILT-150)

HORIZONTAL BEND TYPE	Loading Depth D (mm)	Radius R (mm)	OVERAL DIMENSION				Weight (Approx.) (Kg)
			H (mm)	OW (mm)	A (mm)	L (mm)	
IHB 150 -CL 200 -300 - 45	126	300	150	235	750	735	5.2
IHB 150 -CL 300 -300 - 45	126	300	150	335	750	814	5.9
IHB 150 -CL 450 -300 - 45	126	300	150	485	750	932	6.9
IHB 150 -CL 500 -300 - 45	126	300	150	535	750	971	7.2
IHB 150 -CL 600 -300 - 45	126	300	150	635	750	1050	7.9
IHB 150 -CL 750 -300 - 45	126	300	150	785	750	1167	8.9
IHB 150 -CL 800 -300 - 45	126	300	150	835	750	1207	9.2
IHB 150 -CL 900 -300 - 45	126	300	150	935	750	1285	9.9

ITRAY available to provide this horizontal mitered bend in radius 600, 750 and 900 mm with fix lamination or splice bolted system

PRODUCT LIST AND SELECTION GUIDE

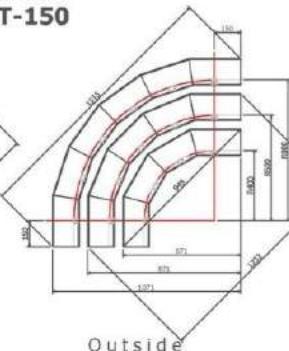
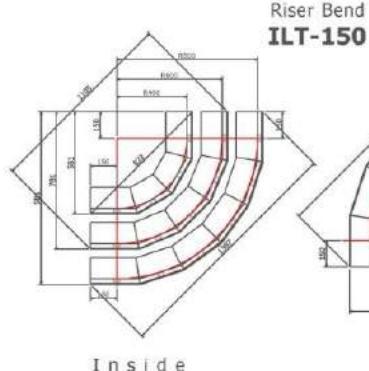
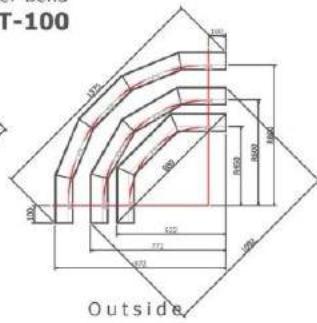
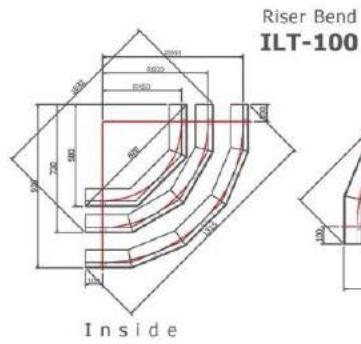
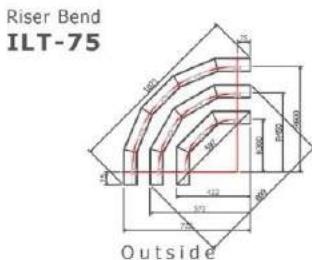
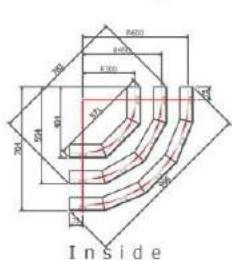
RISER BEND



Inside Vertical 90° Bend TYPE	Loading Depth D (mm)	Radius R (mm)	OVERALL DIMENSION				Weight (Approx.) (Kg)
			H (mm)	OW (mm)	A (mm)	L (mm)	
IIB 75 -CL 150 -300	51	300	75	185	600	571	1.7
IIB 75 -CL 200 -300	51	300	75	235	650	571	1.7
IIB 75 -CL 300 -300	51	300	75	335	750	571	1.9
IIB 75 -CL 400 -300	51	300	75	435	850	571	2.0
IIB 75 -CL 450 -300	51	300	75	485	900	571	2.1
IIB 75 -CL 500 -300	51	300	75	535	950	571	2.2
IIB 75 -CL 600 -300	51	300	75	635	1050	571	2.4

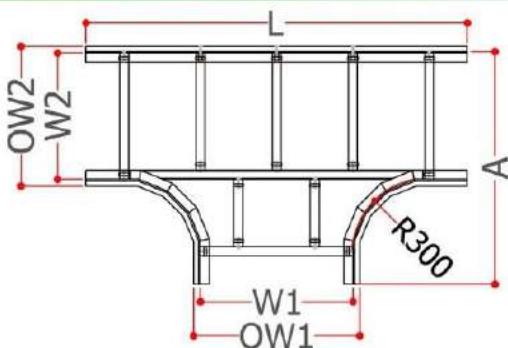
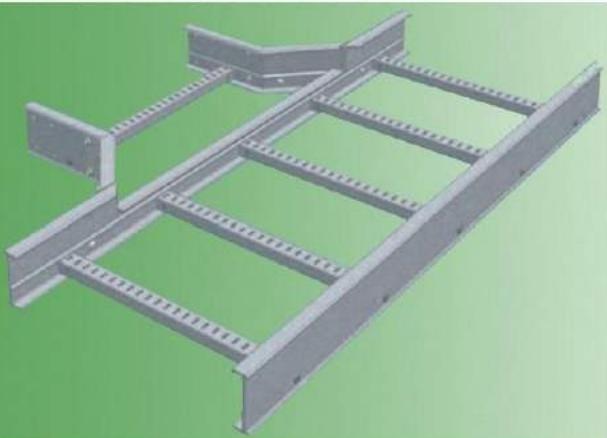
IIB 100 -CL 200 -450	76	450	100	235	650	816	2.4
IIB 100 -CL 300 -450	76	450	100	335	750	816	2.6
IIB 100 -CL 450 -450	76	450	100	485	900	816	2.9
IIB 100 -CL 500 -450	76	450	100	535	950	816	3.1
IIB 100 -CL 600 -450	76	450	100	635	1050	816	3.3
IIB 100 -CL 800 -450	76	450	100	835	1250	816	3.7
IIB 100 -CL 900 -450	76	450	100	935	1350	816	3.9
IIB 150 -CL 200 -400	126	400	150	235	650	822	2.5
IIB 150 -CL 300 -400	126	400	150	335	750	822	2.8
IIB 150 -CL 450 -400	126	400	150	485	900	822	3.2
IIB 150 -CL 500 -400	126	400	150	535	950	822	3.3
IIB 150 -CL 600 -400	126	400	150	635	1050	822	3.6
IIB 150 -CL 750 -400	126	400	150	785	1200	822	4.0
IIB 150 -CL 800 -400	126	400	150	835	1250	822	4.1
IIB 150 -CL 900 -400	126	400	150	935	1350	822	4.4

iTRAY fabricated riser and detail dimension as below.
For other radius please contact us.

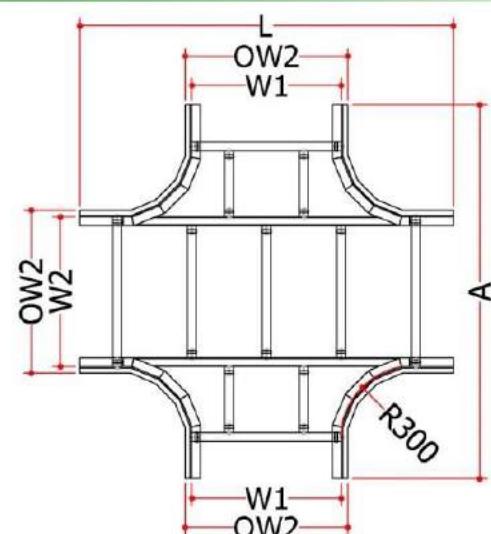
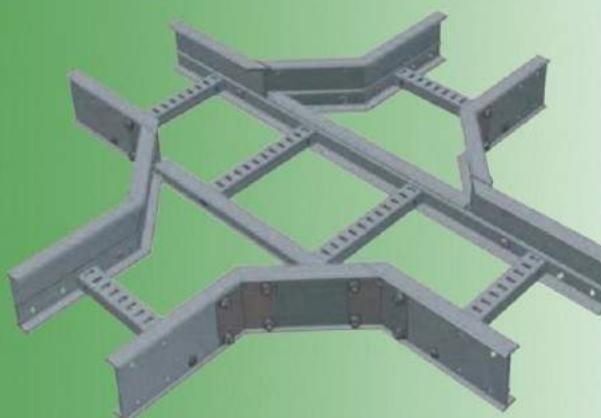


PRODUCT LIST AND SELECTION GUIDE

HORIZONTAL TEE



CROSS



EQUAL HORIZONTAL TEE - R300 (Available in R 400, 500 and 600)

Horizontal Tee	Loading Depth	Radius	OVERAL DIMENSION				Weight (Approx.)
			H	OW	A	L	
TYPE	D (mm)	R (mm)	(mm)	(mm)	(mm)	(mm)	(Kg)
IHT 75 -CL 150 -300	51	300	75	185	560	900	2.9
IHT 75 -CL 200 -300	51	300	75	235	610	950	3.3
IHT 75 -CL 300 -300	51	300	75	335	710	1050	4.1
IHT 75 -CL 400 -300	51	300	75	435	810	1150	4.9
IHT 75 -CL 450 -300	51	300	75	485	860	1200	5.2
IHT 75 -CL 500 -300	51	300	75	535	910	1250	5.6
IHT 75 -CL 600 -300	51	300	75	635	1010	1350	6.4
IHT 100 -CL 200 -300	76	300	100	235	635	1000	4.6
IHT 100 -CL 300 -300	76	300	100	335	735	1100	5.5
IHT 100 -CL 450 -300	76	300	100	485	885	1250	6.9
IHT 100 -CL 500 -300	76	300	100	535	935	1300	7.3
IHT 100 -CL 600 -300	76	300	100	635	1035	1400	8.3
IHT 100 -CL 800 -300	76	300	100	835	1235	1600	10.1
IHT 100 -CL 900 -300	76	300	100	935	1335	1700	11.0
IHT 150 -CL 200 -300	126	300	150	235	685	1100	10.2
IHT 150 -CL 300 -300	126	300	150	335	785	1200	11.8
IHT 150 -CL 450 -300	126	300	150	485	935	1350	14.2
IHT 150 -CL 500 -300	126	300	150	535	985	1400	15.0
IHT 150 -CL 600 -300	126	300	150	635	1085	1500	16.6
IHT 150 -CL 750 -300	126	300	150	785	1235	1650	19.0
IHT 150 -CL 800 -300	126	300	150	835	1285	1700	19.8
IHT 150 -CL 900 -300	126	300	150	935	1385	1800	21.4

iTRAY available fabricated un-equal horizontal tee

EQUAL CROSS	Loading Depth	Radius	OVERAL DIMENSION				Weight (Approx.)
			H	OW	A	L	
TYPE	D (mm)	R (mm)	(mm)	(mm)	(mm)	(mm)	(Kg)
IEC 75 -CL 150 -300	51	300	75	185	900	900	6.5
IEC 75 -CL 200 -300	51	300	75	235	950	950	6.8
IEC 75 -CL 300 -300	51	300	75	335	1050	1050	7.6
IEC 75 -CL 400 -300	51	300	75	435	1150	1150	8.3
IEC 75 -CL 450 -300	51	300	75	485	1200	1200	8.6
IEC 75 -CL 500 -300	51	300	75	535	1250	1250	9.0
IEC 75 -CL 600 -300	51	300	75	635	1350	1350	9.7
IEC 100 -CL 200 -300	76	300	100	235	1000	1000	8.8
IEC 100 -CL 300 -300	76	300	100	335	1100	1100	9.6
IEC 100 -CL 450 -300	76	300	100	485	1250	1250	11.0
IEC 100 -CL 500 -300	76	300	100	535	1300	1300	11.4
IEC 100 -CL 600 -300	76	300	100	635	1400	1400	12.3
IEC 100 -CL 800 -300	76	300	100	835	1600	1600	14.0
IEC 100 -CL 900 -300	76	300	100	935	1700	1700	14.9
IEC 150 -CL 200 -300	126	300	150	235	1100	1100	17.0
IEC 150 -CL 300 -300	126	300	150	335	1200	1200	18.6
IEC 150 -CL 450 -300	126	300	150	485	1350	1350	20.9
IEC 150 -CL 500 -300	126	300	150	535	1400	1400	21.7
IEC 150 -CL 600 -300	126	300	150	635	1500	1500	23.2
IEC 150 -CL 750 -300	126	300	150	785	1650	1650	25.5
IEC 150 -CL 800 -300	126	300	150	835	1700	1700	26.3
IEC 150 -CL 900 -300	126	300	150	935	1800	1800	27.9

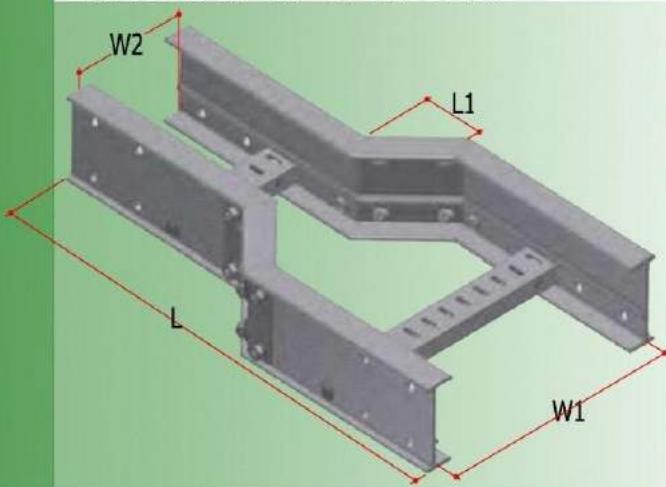
iTRAY available provide cross with a radius of 400, 500 and 600 with various width in all orientation of tray. For this special requirement, please contact us



PRODUCT LIST AND SELECTION GUIDE



REDUCER CENTER



REDUCER CENTER (ILT-75)	Loading Depth D (mm)	OVERALL DIMENSION					Weight (Approx.) (kg)
		OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
H	W1	W2					
IRC 75 -CL 300 /200	51	335	300	200	300	525	1.6
IRC 75 -CL 400 /250	51	435	400	250	450	675	2.2
IRC 75 -CL 450 /300	51	485	450	300	450	675	2.3
IRC 75 -CL 500 /350	51	535	500	350	450	675	2.4
IRC 75 -CL 600 /400	51	635	600	400	600	825	3.0
IRC 75 -CL 300 /150	51	335	300	150	450	675	1.9
IRC 75 -CL 400 /200	51	435	400	200	600	825	2.6
IRC 75 -CL 450 /250	51	485	450	250	600	825	2.7
IRC 75 -CL 500 /300	51	535	500	300	600	825	2.8
IRC 75 -CL 600 /350	51	635	600	350	750	975	3.3
IRC 75 -CL 600 /500	51	635	600	500	300	525	2.3

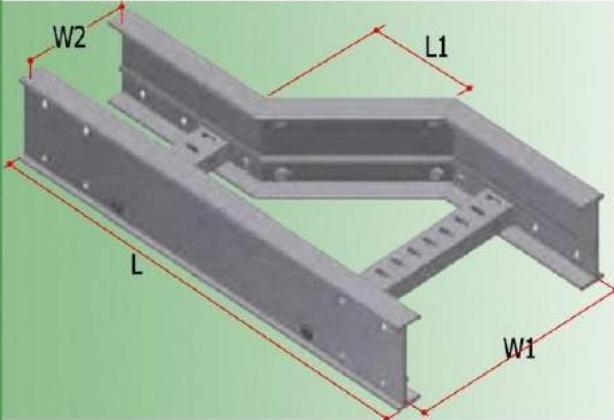
REDUCER CENTER (ILT-100)	Loading Depth D (mm)	OVERAL DIMENSION					Weight (Approx.) (kg)
		OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
H	W1	W2					
IRC 100 -CL 300 /200	76	335	300	200	300	600	2.3
IRC 100 -CL 450 /300	76	485	450	300	450	750	3.2
IRC 100 -CL 500 /450	76	535	500	450	150	450	2.4
IRC 100 -CL 600 /500	76	635	600	500	300	600	3.0
IRC 100 -CL 800 /600	76	835	800	600	600	900	4.8
IRC 100 -CL 900 /800	76	935	900	800	300	600	4.1
IRC 100 -CL 500 /300	76	535	500	300	600	900	3.7
IRC 100 -CL 600 /450	76	635	600	450	450	750	3.5
IRC 100 -CL 800 /500	76	835	800	500	900	1200	5.7
IRC 100 -CL 900 /600	76	935	900	600	900	1200	5.9
IRC 100 -CL 600 /350	76	635	600	350	750	1050	4.4
IRC 100 -CL 800 /400	76	835	800	400	1200	1500	6.6
IRC 100 -CL 900 /500	76	935	900	500	1200	1500	6.8
IRC 100 -CL 900 /400	76	935	900	400	1500	1800	7.7

(ILT-150)

IRC 150 -CL 300 /200	126	335	300	200	300	750	5.7
IRC 150 -CL 450 /300	126	485	450	300	450	900	7.2
IRC 150 -CL 500 /450	126	535	500	450	150	600	5.2
IRC 150 -CL 600 /500	126	635	600	500	300	750	6.4
IRC 150 -CL 800 /600	126	835	800	600	600	1050	9.4
IRC 150 -CL 900 /800	126	935	900	800	300	750	7.5
IRC 150 -CL 500 /300	126	535	500	300	600	1050	8.3
IRC 150 -CL 600 /450	126	635	600	450	450	900	7.5
IRC 150 -CL 800 /500	126	835	800	500	900	1350	11.4
IRC 150 -CL 900 /600	126	935	900	600	900	1350	11.7
IRC 150 -CL 600 /350	126	635	600	350	750	1200	9.6
IRC 150 -CL 800 /400	126	835	800	400	1200	1650	13.5
IRC 150 -CL 900 /500	126	935	900	500	1200	1650	13.8
IRC 150 -CL 900 /400	126	935	900	400	1500	1950	15.8

ITRAY available to provide reducer with any width as required with fix lamination or splice bolted system

REDUCER CENTER



REDUCER RIGHT (ILT-75) H W1 W2	Loading Depth D (mm)	OVERALL DIMENSION					Weight (Approx.) (kg)
		OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
IRR 75 -CL 300 /200	51	335	300	200	300	525	1.5
IRR 75 -CL 400 /250	51	435	400	250	450	675	2.1
IRR 75 -CL 450 /300	51	485	450	300	450	675	2.2
IRR 75 -CL 500 /350	51	535	500	350	450	675	2.3
IRR 75 -CL 600 /400	51	635	600	400	600	825	2.8
IRR 75 -CL 300 /150	51	335	300	150	450	675	1.8
IRR 75 -CL 400 /200	51	435	400	200	600	825	2.4
IRR 75 -CL 450 /250	51	485	450	250	600	825	2.5
IRR 75 -CL 500 /300	51	535	500	300	600	825	2.6
IRR 75 -CL 600 /350	51	635	600	350	750	975	3.1
IRR 75 -CL 600 /500	51	635	600	500	300	525	2.2

REDUCER RIGHT (ILT-100) H W1 W2	Loading Depth D (mm)	OVERALL DIMENSION					Weight (Approx.) (kg)
		OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
IRR 100 -CL 300 /200	76	335	300	200	300	600	2.1
IRR 100 -CL 450 /300	76	485	450	300	450	750	3.0
IRR 100 -CL 500 /450	76	535	500	450	150	450	2.3
IRR 100 -CL 600 /500	76	635	600	500	300	600	2.9
IRR 100 -CL 800 /600	76	835	800	600	600	900	4.5
IRR 100 -CL 900 /800	76	935	900	800	300	600	4.0
IRR 100 -CL 500 /300	76	535	500	300	600	900	3.5
IRR 100 -CL 600 /450	76	635	600	450	450	750	3.3
IRR 100 -CL 800 /500	76	835	800	500	900	1200	5.4
IRR 100 -CL 900 /600	76	935	900	600	900	1200	5.6
IRR 100 -CL 600 /350	76	635	600	350	750	1050	4.1
IRR 100 -CL 800 /400	76	835	800	400	1200	1500	6.2
IRR 100 -CL 900 /500	76	935	900	500	1200	1500	6.4
IRR 100 -CL 900 /400	76	935	900	400	1500	1800	7.3

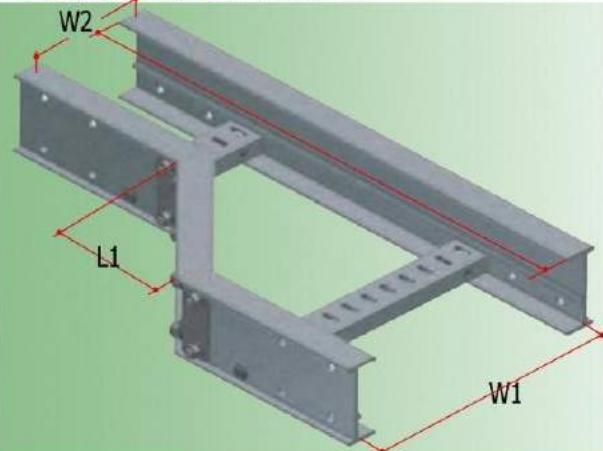
(ILT-150)

IRR 150 -CL 300 /200	126	335	300	200	300	750	5.2
IRR 150 -CL 450 /300	126	485	450	300	450	900	6.6
IRR 150 -CL 500 /450	126	535	500	450	150	600	4.8
IRR 150 -CL 600 /500	126	635	600	500	300	750	6.0
IRR 150 -CL 800 /600	126	835	800	600	600	1050	8.7
IRR 150 -CL 900 /800	126	935	900	800	300	750	7.1
IRR 150 -CL 500 /300	126	535	500	300	600	1050	7.7
IRR 150 -CL 600 /450	126	635	600	450	450	900	6.9
IRR 150 -CL 800 /500	126	835	800	500	900	1350	10.6
IRR 150 -CL 900 /600	126	935	900	600	900	1350	10.9
IRR 150 -CL 600 /350	126	635	600	350	750	1200	8.8
IRR 150 -CL 800 /400	126	835	800	400	1200	1650	12.5
IRR 150 -CL 900 /500	126	935	900	500	1200	1650	12.8
IRR 150 -CL 900 /400	126	935	900	400	1500	1950	14.7



PRODUCT LIST AND SELECTION GUIDE

REDUCER LEFT



REDUCER LEFT (ILT-75)	Loading Depth D (mm)	OVERALL DIMENSION					Weight (Approx.) (Kg)
		OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
IRL 75 -CL 300 /200	51	335	300	200	300	525	1.5
IRL 75 -CL 400 /250	51	435	400	250	450	675	2.1
IRL 75 -CL 450 /300	51	485	450	300	450	675	2.2
IRL 75 -CL 500 /350	51	535	500	350	450	675	2.3
IRL 75 -CL 600 /400	51	635	600	400	600	825	2.8
IRL 75 -CL 300 /150	51	335	300	150	450	675	1.8
IRL 75 -CL 400 /200	51	435	400	200	600	825	2.4
IRL 75 -CL 450 /250	51	485	450	250	600	825	2.5
IRL 75 -CL 500 /300	51	535	500	300	600	825	2.6
IRL 75 -CL 600 /350	51	635	600	350	750	975	3.1
IRL 75 -CL 600 /500	51	635	600	500	300	525	2.2

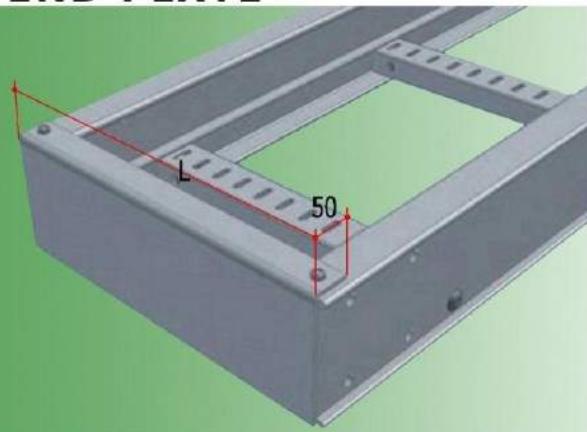
REDUCER LEFT (ILT-100)	Loading Depth D (mm)	OVERALL DIMENSION					Weight (Approx.) (Kg)
		OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
IRL 100 -CL 300 /200	76	335	300	200	300	600	2.1
IRL 100 -CL 450 /300	76	485	450	300	450	750	3.0
IRL 100 -CL 500 /450	76	535	500	450	150	450	2.3
IRL 100 -CL 600 /500	76	635	600	500	300	600	2.9
IRL 100 -CL 800 /600	76	835	800	600	600	900	4.5
IRL 100 -CL 900 /800	76	935	900	800	300	600	4.0
IRL 100 -CL 500 /300	76	535	500	300	600	900	3.5
IRL 100 -CL 600 /450	76	635	600	450	450	750	3.3
IRL 100 -CL 800 /500	76	835	800	500	900	1200	5.4
IRL 100 -CL 900 /600	76	935	900	600	900	1200	5.6
IRL 100 -CL 600 /350	76	635	600	350	750	1050	4.1
IRL 100 -CL 800 /400	76	835	800	400	1200	1500	6.2
IRL 100 -CL 900 /500	76	935	900	500	1200	1500	6.4
IRL 100 -CL 900 /400	76	935	900	400	1500	1800	7.3

(ILT-150)

REDUCER LEFT (ILT-150)	Loading Depth D (mm)	OVERALL DIMENSION					Weight (Approx.) (Kg)
		OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
IRL 150 -CL 300 /200	126	335	300	200	300	750	5.2
IRL 150 -CL 450 /300	126	485	450	300	450	900	6.6
IRL 150 -CL 500 /450	126	535	500	450	150	600	4.8
IRL 150 -CL 600 /500	126	635	600	500	300	750	6.0
IRL 150 -CL 800 /600	126	835	800	600	600	1050	8.7
IRL 150 -CL 900 /800	126	935	900	800	300	750	7.1
IRL 150 -CL 500 /300	126	535	500	300	600	1050	7.7
IRL 150 -CL 600 /450	126	635	600	450	450	900	6.9
IRL 150 -CL 800 /500	126	835	800	500	900	1350	10.6
IRL 150 -CL 900 /600	126	935	900	600	900	1350	10.9
IRL 150 -CL 600 /350	126	635	600	350	750	1200	8.8
IRL 150 -CL 800 /400	126	835	800	400	1200	1650	12.5
IRL 150 -CL 900 /500	126	935	900	500	1200	1650	12.8
IRL 150 -CL 900 /400	126	935	900	400	1500	1950	14.7

ITRAY available to provide reducer with any width as required with fix lamination or splice bolted system

END PLATE



END PLATE ILT-75	L (mm)	Weight (Approx.) (Kg)	END PLATE ILT-100	L (mm)	Weight (Approx.) (Kg)	END PLATE ILT-150	L (mm)	Weight (Approx.) (Kg)
IEP 75 -CL 150	185	0.2	IEP 100 -CL 200	250	0.3	IEP 150 -CL 300	350	0.6
IEP 75 -CL 200	235	0.3	IEP 100 -CL 300	350	0.5	IEP 150 -CL 450	500	0.9
IEP 75 -CL 300	335	0.4	IEP 100 -CL 450	500	0.7	IEP 150 -CL 500	550	1.0
IEP 75 -CL 400	435	0.5	IEP 100 -CL 500	550	0.7	IEP 150 -CL 600	650	1.2
IEP 75 -CL 450	485	0.5	IEP 100 -CL 600	650	0.9	IEP 150 -CL 750	800	1.4
IEP 75 -CL 500	535	0.6	IEP 100 -CL 800	850	1.1	IEP 150 -CL 800	850	1.5
IEP 75 -CL 600	635	0.7	IEP 100 -CL 900	950	1.3	IEP 150 -CL 900	950	1.7

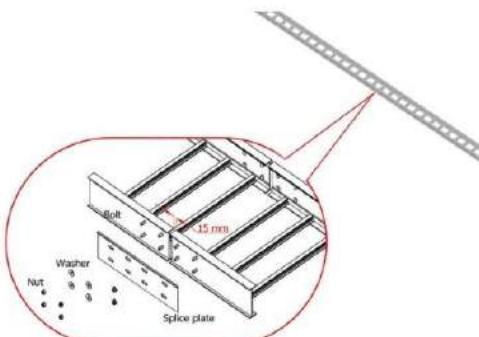


EXIT PLATE ILT-150	W (mm)	L (mm)	Weight (Approx.) (Kg)
IEX -ILT 150	150	325	0.50

SPLICING PLATE



SPLICING PLATE	W (mm)	L (mm)	Weight (Approx.) (Kg)
ISP -ILT 75 (FRP)	65	160	0.15
ISP -ILT 100 (FRP)	85	210	0.26
ISP -ILT 150 (FRP)	135	310	0.60
ISP -ILT 75 (STEEL)	65	160	0.42
ISP -ILT 100 (STEEL)	85	210	0.71
ISP -ILT 150 (STEEL)	135	310	1.67



PRODUCT LIST AND SELECTION GUIDE



ILT-75 (I)

ISOPHTHALIC

NEMA 8C

For light duty and general industrial applications

SPAN (L)	DEFLECTION AND SAFE WORKING LOAD BASED ON NEMA FG-1									
	37 kg/m (25 lb/ft)	55 kg/m (37 lb/ft)	75 kg/m A (50 lb/ft)	93 kg/m (62 lb/ft)	112 kg/m B (75 lb/ft)	130 kg/m (87 lb/ft)	149 kg/m C (100 lb/ft)	250 kg/m (168 lb/ft)	300 kg/m (202 lb/ft)	350 kg/m (235 lb/ft)
1200 (4ft)	0.10 (0.00")	0.14 (0.01")	0.20 (0.01")	0.24 (0.01")	0.29 (0.01")	0.34 (0.01")	0.39 (0.02")	0.64 (0.03")	0.77 (0.03")	0.90 (0.04")
1500 (5ft)	0.24 (0.01")	0.35 (0.02")	0.48 (0.02")	0.59 (0.02")	0.71 (0.03")	0.82 (0.03")	0.94 (0.04")	1.57 (0.06")	1.89 (0.07")	2.20 (0.09")
2440 (8ft)	1.67 (0.07")	2.48 (0.10")	3.35 (0.13")	4.14 (0.16")	4.98 (0.20")	5.76 (0.23")	6.60 (0.26")	11.02 (0.43")	13.21 (0.52")	
3050 (10ft)	4.07 (0.16")	6.05 (0.24")	8.19 (0.32")	10.12 (0.40")	12.15 (0.48")	14.07 (0.55")	16.11 (0.63")	26.91 (1.06")		
3660 (12ft)	8.44 (0.33")	12.55 (0.49")	16.98 (0.67")	20.98 (0.83")	25.19 (0.99")	29.18 (1.15")	33.40 (1.31")			
4270 (14ft)	15.64 (0.62")	23.24 (0.92")	31.46 (1.24")	38.86 (1.53")	46.67 (1.84")	54.07 (2.13")				
4880 (16ft)	26.68 (1.05")	39.65 (1.56")	53.68 (2.11")	66.29 (2.61")	79.62 (3.13")					
5490 (18ft)	42.74 (1.68")	63.52 (2.50")	85.98 (3.38")	106.19 (4.18")						
6100 (20ft)	65.15 (2.56")	96.81 (3.81")	131.04 (5.16")							
9150 (30ft)	329.81 (12.98")	490.11 (19.30")								



ILT-75 (V)

VINYL ESTER

NEMA 12A

For light duty and corrosive environments applications

SPAN (L)	DEFLECTION AND SAFE WORKING LOAD BASED ON NEMA FG-1									
	37 kg/m (25 lb/ft)	55 kg/m (37 lb/ft)	75 kg/m A (50 lb/ft)	93 kg/m (62 lb/ft)	112 kg/m B (75 lb/ft)	130 kg/m (87 lb/ft)	149 kg/m C (100 lb/ft)	250 kg/m (168 lb/ft)	300 kg/m (202 lb/ft)	350 kg/m (235 lb/ft)
1200 (4ft)	0.08 (0.00")	0.12 (0.00")	0.17 (0.01")	0.21 (0.01")	0.25 (0.01")	0.29 (0.01")	0.33 (0.01")	0.55 (0.02")	0.66 (0.03")	0.76 (0.03")
1500 (5ft)	0.20 (0.01")	0.30 (0.01")	0.41 (0.02")	0.50 (0.02")	0.60 (0.02")	0.70 (0.03")	0.80 (0.03")	1.34 (0.05")	1.60 (0.06")	1.87 (0.07")
2440 (8ft)	1.41 (0.06")	2.10 (0.08")	2.85 (0.11")	3.52 (0.14")	4.22 (0.17")	4.89 (0.19")	5.60 (0.22")	9.35 (0.37")	11.21 (0.44")	
3050 (10ft)	3.45 (0.14")	5.13 (0.20")	6.95 (0.27")	8.58 (0.34")	10.31 (0.41")	11.94 (0.47")	13.66 (0.54")	22.83 (0.90")		
3660 (12ft)	7.16 (0.28")	10.64 (0.42")	14.41 (0.57")	17.80 (0.70")	21.37 (0.84")	24.76 (0.97")	28.34 (1.12")			
4270 (14ft)	13.27 (0.52")	19.72 (0.78")	26.69 (1.05")	32.97 (1.30")	39.59 (1.56")	45.87 (1.81")				
4880 (16ft)	22.64 (0.89")	33.64 (1.32")	45.54 (1.79")	56.25 (2.21")	67.55 (2.66")					
5490 (18ft)	36.26 (1.43")	53.89 (2.12")	72.94 (2.87")	90.09 (3.55")						
6100 (20ft)	55.27 (2.18")	82.14 (3.23")	111.18 (4.38")							
9150 (30ft)	279.81 (11.02")	415.81 (16.37")								



PRODUCT LIST AND SELECTION GUIDE



ILT-100 (I)

ISOPHTHALIC

NEMA 16A

For medium duty and general industrial applications

SPAN (L)	DEFLECTION AND SAFE WORKING LOAD BASED ON NEMA FG-1									
	37 kg/m (25 lb/ft)	55 kg/m (37 lb/ft)	75 kg/m A (50 lb/ft)	93 kg/m (62 lb/ft)	112 kg/m B (75 lb/ft)	130 kg/m (87 lb/ft)	149 kg/m C (100 lb/ft)	250 kg/m (168 lb/ft)	300 kg/m (202 lb/ft)	350 kg/m (235 lb/ft)
1200 (4ft)	0.02 (0.00")	0.04 (0.00")	0.05 (0.00")	0.06 (0.00")	0.07 (0.00")	0.08 (0.00")	0.09 (0.00")	0.16 (0.01")	0.19 (0.01")	0.22 (0.01")
1500 (5ft)	0.06 (0.00")	0.09 (0.00")	0.12 (0.00")	0.15 (0.01")	0.17 (0.01")	0.20 (0.01")	0.23 (0.01")	0.38 (0.02")	0.46 (0.02")	0.53 (0.02")
2440 (8ft)	0.42 (0.02")	0.61 (0.02")	0.83 (0.03")	1.02 (0.04")	1.22 (0.05")	1.41 (0.06")	1.61 (0.06")	2.67 (0.11")	3.20 (0.13")	3.73 (0.15")
3050 (10ft)	1.02 (0.04")	1.50 (0.06")	2.02 (0.08")	2.48 (0.10")	2.97 (0.12")	3.43 (0.14")	3.92 (0.15")	6.53 (0.26")	7.82 (0.31")	9.11 (0.36")
3660 (12ft)	2.12 (0.08")	3.11 (0.12")	4.18 (0.16")	5.14 (0.20")	6.16 (0.24")	7.12 (0.28")	8.14 (0.32")	13.54 (0.53")	16.21 (0.64")	
4270 (14ft)	3.93 (0.15")	5.76 (0.23")	7.75 (0.30")	9.53 (0.38")	11.41 (0.45")	13.19 (0.52")	15.08 (0.59")	25.08 (0.99")		
4880 (16ft)	6.71 (0.26")	9.83 (0.39")	13.21 (0.52")	16.26 (0.64")	19.47 (0.77")	22.51 (0.89")				
5490 (18ft)	10.74 (0.42")	15.75 (0.62")	21.17 (0.83")	26.04 (1.03")	31.18 (1.23")					
6100 (20ft)	16.37 (0.64")	24.01 (0.95")	32.26 (1.27")	39.69 (1.56")						
9150 (30ft)	82.89 (3.26")	121.54 (4.78")	163.31 (6.43")							



ILT-100 (V)

VINYL ESTER

NEMA 16B

For medium duty and corrosive environments

SPAN (L)	DEFLECTION AND SAFE WORKING LOAD BASED ON NEMA FG-1									
	37 kg/m (25 lb/ft)	55 kg/m (37 lb/ft)	75 kg/m A (50 lb/ft)	93 kg/m (62 lb/ft)	112 kg/m B (75 lb/ft)	130 kg/m (87 lb/ft)	149 kg/m C (100 lb/ft)	250 kg/m (168 lb/ft)	300 kg/m (202 lb/ft)	350 kg/m (235 lb/ft)
1200 (4ft)	0.02 (0.00")	0.03 (0.00")	0.04 (0.00")	0.05 (0.00")	0.06 (0.00")	0.07 (0.00")	0.08 (0.00")	0.13 (0.01")	0.16 (0.01")	0.19 (0.01")
1500 (5ft)	0.05 (0.00")	0.07 (0.00")	0.10 (0.00")	0.12 (0.00")	0.15 (0.01")	0.17 (0.01")	0.20 (0.01")	0.33 (0.01")	0.39 (0.02")	0.46 (0.02")
2440 (8ft)	0.36 (0.01")	0.52 (0.02")	0.71 (0.03")	0.87 (0.03")	1.04 (0.04")	1.20 (0.05")	1.37 (0.05")	2.28 (0.09")	2.74 (0.11")	3.19 (0.13")
3050 (10ft)	0.87 (0.03")	1.28 (0.05")	1.72 (0.07")	2.12 (0.08")	2.54 (0.10")	2.93 (0.12")	3.35 (0.13")	5.58 (0.22")	6.68 (0.26")	7.78 (0.31")
3660 (12ft)	1.81 (0.07")	2.66 (0.10")	3.57 (0.14")	4.39 (0.17")	5.26 (0.21")	6.08 (0.24")	6.95 (0.27")	11.56 (0.46")	13.85 (0.55")	
4270 (14ft)	3.36 (0.13")	4.92 (0.19")	6.62 (0.26")	8.14 (0.32")	9.75 (0.38")	11.27 (0.44")	12.88 (0.51")	21.42 (0.84")		
4880 (16ft)	5.73 (0.23")	8.40 (0.33")	11.29 (0.44")	13.88 (0.55")	16.63 (0.65")	19.22 (0.76")	21.97 (0.86")			
5490 (18ft)	9.17 (0.36")	13.45 (0.53")	18.08 (0.71")	22.24 (0.88")	26.63 (1.05")					
6100 (20ft)	13.98 (0.55")	20.50 (0.81")	27.55 (1.08")	33.90 (1.33")						
9150 (30ft)	70.79 (2.79")	103.80 (4.09")								



PRODUCT LIST AND SELECTION GUIDE



ILT-150 (I)

ISOPHTALIC

NEMA 20C

For heavy duty and general industrial applications

SPAN (L)	DEFLECTION AND SAFE WORKING LOAD BASED ON NEMA FG-1									
	37 kg/m (25 lb/ft)	55 kg/m (37 lb/ft)	75 kg/m A (50 lb/ft)	93 kg/m (62 lb/ft)	112 kg/m B (75 lb/ft)	130 kg/m (87 lb/ft)	149 kg/m C (100 lb/ft)	250 kg/m (168 lb/ft)	300 kg/m (202 lb/ft)	350 kg/m (235 lb/ft)
1200 (4ft)	0.01 (0.00")	0.01 (0.00")	0.01 (0.00")	0.02 (0.00")	0.02 (0.00")	0.02 (0.00")	0.03 (0.00")	0.04 (0.00")	0.05 (0.00")	0.06 (0.00")
1500 (5ft)	0.02 (0.00")	0.03 (0.00")	0.03 (0.00")	0.04 (0.00")	0.05 (0.00")	0.06 (0.00")	0.06 (0.00")	0.11 (0.00")	0.13 (0.01")	0.15 (0.01")
2440 (8ft)	0.12 (0.00")	0.18 (0.01")	0.24 (0.01")	0.29 (0.01")	0.35 (0.01")	0.40 (0.02")	0.45 (0.02")	0.75 (0.03")	0.90 (0.04")	1.05 (0.04")
3050 (10ft)	0.30 (0.01")	0.43 (0.02")	0.58 (0.02")	0.71 (0.03")	0.84 (0.03")	0.97 (0.04")	1.11 (0.04")	1.84 (0.07")	2.20 (0.09")	2.56 (0.10")
3660 (12ft)	0.62 (0.02")	0.90 (0.04")	1.20 (0.05")	1.47 (0.06")	1.75 (0.07")	2.02 (0.08")	2.30 (0.09")	3.81 (0.15")	4.56 (0.18")	5.31 (0.21")
4270 (14ft)	1.15 (0.05")	1.67 (0.07")	2.22 (0.09")	2.72 (0.11")	3.24 (0.13")	3.74 (0.15")	4.27 (0.17")	7.06 (0.28")	8.45 (0.33")	9.83 (0.39")
4880 (16ft)	1.97 (0.08")	2.84 (0.11")	3.79 (0.15")	4.64 (0.18")	5.53 (0.22")	6.38 (0.25")	7.28 (0.29")	12.05 (0.47")	14.41 (0.57")	16.77 (0.66")
5490 (18ft)	3.15 (0.12")	4.55 (0.18")	6.06 (0.24")	7.42 (0.29")	8.86 (0.35")	10.22 (0.40")	11.66 (0.46")	19.30 (0.76")	23.08 (0.91")	
6100 (20ft)	4.80 (0.19")	6.94 (0.27")	9.24 (0.36")	11.32 (0.45")	13.51 (0.53")	15.58 (0.61")	17.77 (0.70")	29.42 (1.16")		
9150 (30ft)	24.31 (0.96")	35.11 (1.38")	46.78 (1.84")	57.29 (2.26")	68.38 (2.69")	78.88 (3.11")	89.97 (3.54")			



ILT-150 (V)

VINYL ESTER

NEMA 20C

For heavy duty and corrosive environments applications

SPAN (L)	DEFLECTION AND SAFE WORKING LOAD BASED ON NEMA FG-1									
	37 kg/m (25 lb/ft)	55 kg/m (37 lb/ft)	75 kg/m A (50 lb/ft)	93 kg/m (62 lb/ft)	112 kg/m B (75 lb/ft)	130 kg/m (87 lb/ft)	149 kg/m C (100 lb/ft)	250 kg/m (168 lb/ft)	300 kg/m (202 lb/ft)	350 kg/m (235 lb/ft)
1200 (4ft)	0.01 (0.00")	0.01 (0.00")	0.01 (0.00")	0.01 (0.00")	0.02 (0.00")	0.02 (0.00")	0.02 (0.00")	0.04 (0.00")	0.05 (0.00")	0.05 (0.00")
1500 (5ft)	0.02 (0.00")	0.02 (0.00")	0.03 (0.00")	0.04 (0.00")	0.04 (0.00")	0.05 (0.00")	0.06 (0.00")	0.09 (0.00")	0.11 (0.00")	0.13 (0.01")
2440 (8ft)	0.11 (0.00")	0.15 (0.01")	0.20 (0.01")	0.25 (0.01")	0.30 (0.01")	0.34 (0.01")	0.39 (0.02")	0.65 (0.03")	0.78 (0.03")	0.91 (0.04")
3050 (10ft)	0.26 (0.01")	0.37 (0.01")	0.50 (0.02")	0.61 (0.02")	0.73 (0.03")	0.84 (0.03")	0.96 (0.04")	1.59 (0.06")	1.90 (0.07")	2.21 (0.09")
3660 (12ft)	0.54 (0.02")	0.78 (0.03")	1.04 (0.04")	1.27 (0.05")	1.51 (0.06")	1.75 (0.07")	1.99 (0.08")	3.30 (0.13")	3.94 (0.16")	4.59 (0.18")
4270 (14ft)	1.00 (0.04")	1.44 (0.06")	1.92 (0.08")	2.35 (0.09")	2.80 (0.11")	3.23 (0.13")	3.69 (0.15")	6.10 (0.24")	7.30 (0.29")	8.50 (0.33")
4880 (16ft)	1.70 (0.07")	2.46 (0.10")	3.27 (0.13")	4.01 (0.16")	4.78 (0.19")	5.52 (0.22")	6.29 (0.25")	10.41 (0.41")	12.45 (0.49")	14.50 (0.57")
5490 (18ft)	2.72 (0.11")	3.93 (0.15")	5.24 (0.21")	6.42 (0.25")	7.66 (0.30")	8.84 (0.35")	10.08 (0.40")	16.68 (0.66")	19.95 (0.79")	
6100 (20ft)	4.15 (0.16")	5.99 (0.24")	7.99 (0.31")	9.78 (0.39")	11.67 (0.46")	13.47 (0.53")	15.36 (0.60")	25.42 (1.00")		
9150 (30ft)	21.01 (0.83")	30.34 (1.19")	40.43 (1.59")	49.51 (1.95")	59.10 (2.33")	68.18 (2.68")	77.76 (3.06")			



Flanged Channel Solid Tray



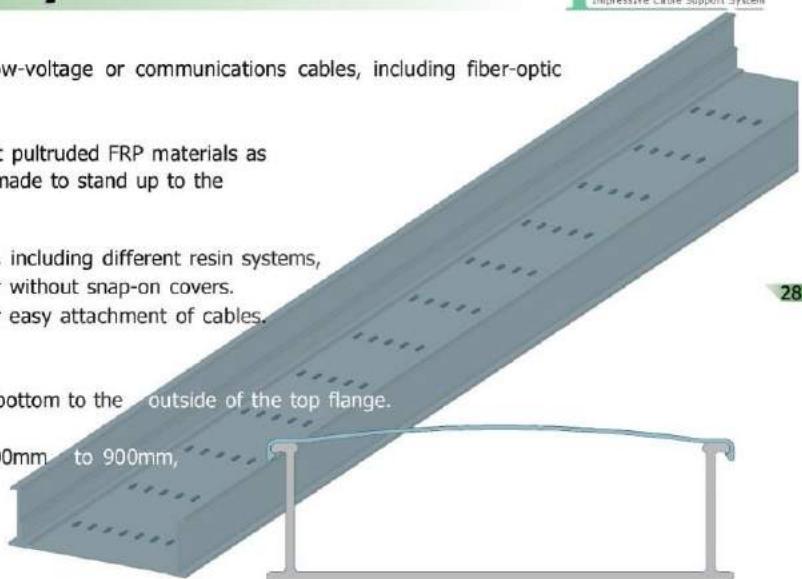
iTRAY Flanged Channel Solid Tray is ideal for low-voltage or communications cables, including fiber-optic cables, or to support hydraulic or pneumatic tubing.

Made from the same high strength, corrosion resistant pultruded FRP materials as ladder tray, Flanged Channel Solid Tray is tough and made to stand up to the most demanding environments.

Flanged Channel Solid Tray comes in multiple options, including different resin systems, your choice of solid or perforated bottom, and with or without snap-on covers. Perforated cable trays are pre-slotted for ventilation or easy attachment of cables.

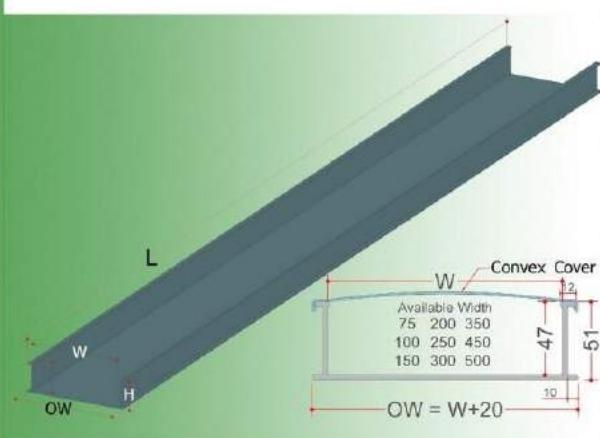
iTRAY Flanged Channel Solid Tray come in depths of 50mm, 75mm and 100mm from the outside of the bottom to the outside of the top flange.

iTRAY Flanged Channel Solid Tray widths come in 100mm to 900mm, measuring inside to inside of the walls. Lengths can be in 3m, 4 and 6m. In addition, we offer includes a full of fittings, accessories and support systems.



28

Flanged Channel Solid Tray IST 50-CT



STRAIGHT SECTION Flanged Channel SOLID TRAY	Rail Height H (mm)	Loading Depth D (mm)	Load Width W (mm)	Overall Width OW (mm)	Std Length L (m)	Tray Weight (Approx.) (Kg/m)
IST 50 -CT 75 - 4 - (O)	50	47	75	95	4	1.2
IST 50 -CT 100 - 4 - (O)	50	47	100	120	4	1.4
IST 50 -CT 150 - 4 - (O)	50	47	150	170	4	1.7
IST 50 -CT 200 - 4 - (O)	50	47	200	220	4	1.9
IST 50 -CT 250 - 4 - (O)	50	47	250	270	4	2.2
IST 50 -CT 300 - 4 - (O)	50	47	300	320	4	2.5
IST 50 -CT 350 - 4 - (O)	50	47	350	370	4	2.8
IST 50 -CT 400 - 4 - (O)	50	47	400	420	4	3.1
IST 50 -CT 600 - 4 - (O)	50	47	600	620	4	4.2

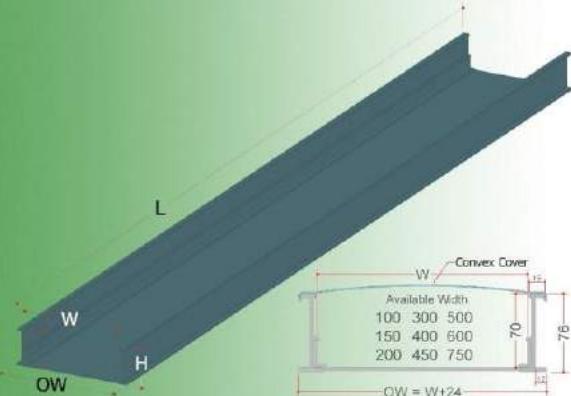
Flanged Channel SOLID TRAY	SAFE WORKING LOAD							IST 50-CT
	1.5 m (5 ft.)	2.0 m (7 ft.)	2.5 m (8 ft.)	3.0 m (10 ft.)	3.5 m (11 ft.)	4.0 m (13 ft.)		
IST 50 -CT 75	185 Kg/m (124 Lbs/ft.)	83 Kg/m (56 Lbs/ft.)	42 Kg/m (28 Lbs/ft.)	24 Kg/m (16 Lbs/ft.)	14 Kg/m (9 Lbs/ft.)	9 Kg/m (6 Lbs/ft.)		
IST 50 -CT 100	186 Kg/m (125 Lbs/ft.)	83 Kg/m (56 Lbs/ft.)	42 Kg/m (28 Lbs/ft.)	24 Kg/m (16 Lbs/ft.)	14 Kg/m (9 Lbs/ft.)	9 Kg/m (6 Lbs/ft.)		
IST 50 -CT 150	200 Kg/m (134 Lbs/ft.)	84 Kg/m (56 Lbs/ft.)	43 Kg/m (29 Lbs/ft.)	25 Kg/m (17 Lbs/ft.)	15 Kg/m (10 Lbs/ft.)	10 Kg/m (7 Lbs/ft.)		
IST 50 -CT 200	200 Kg/m (134 Lbs/ft.)	86 Kg/m (58 Lbs/ft.)	44 Kg/m (30 Lbs/ft.)	25 Kg/m (17 Lbs/ft.)	16 Kg/m (11 Lbs/ft.)	10 Kg/m (7 Lbs/ft.)		
IST 50 -CT 250	205 Kg/m (138 Lbs/ft.)	88 Kg/m (59 Lbs/ft.)	45 Kg/m (30 Lbs/ft.)	26 Kg/m (17 Lbs/ft.)	17 Kg/m (11 Lbs/ft.)	11 Kg/m (7 Lbs/ft.)		
IST 50 -CT 300	220 Kg/m (148 Lbs/ft.)	90 Kg/m (60 Lbs/ft.)	50 Kg/m (34 Lbs/ft.)	28 Kg/m (19 Lbs/ft.)	18 Kg/m (12 Lbs/ft.)	12 Kg/m (8 Lbs/ft.)		
IST 50 -CT 350	245 Kg/m (165 Lbs/ft.)	102 Kg/m (69 Lbs/ft.)	52 Kg/m (35 Lbs/ft.)	30 Kg/m (20 Lbs/ft.)	20 Kg/m (13 Lbs/ft.)	14 Kg/m (9 Lbs/ft.)		
IST 50 -CT 400	250 Kg/m (168 Lbs/ft.)	105 Kg/m (71 Lbs/ft.)	54 Kg/m (36 Lbs/ft.)	32 Kg/m (22 Lbs/ft.)	22 Kg/m (15 Lbs/ft.)	16 Kg/m (11 Lbs/ft.)		
IST 50 -CT 600	270 Kg/m (181 Lbs/ft.)	115 Kg/m (77 Lbs/ft.)	58 Kg/m (39 Lbs/ft.)	34 Kg/m (23 Lbs/ft.)	24 Kg/m (16 Lbs/ft.)	18 Kg/m (12 Lbs/ft.)		

Safe Working Load base on IEC 61537 , data indicates a minimum safety factor of 1.7.

Unless otherwise stated, data above is theoretical and based on simple beam uniformed distributed load.



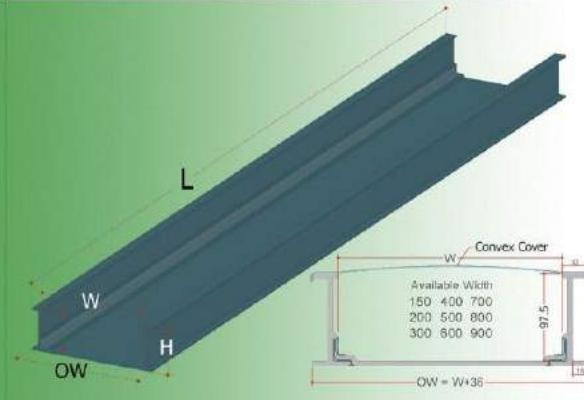
Flanged Channel Solid Tray IST 75-CT



Flanged Channel SOLID TRAY	Rail Height H (mm)	Loading Depth D (mm)	Load Width W (mm)	Overall Width OW (mm)	Overall Width L (m)	Std Length (m)	Tray Weight (Approx.) (Kg/m)
IST 75 -CT 100 - 4 - (O)	76	70	100	124	4	2.7	
IST 75 -CT 150 - 4 - (O)	76	70	150	174	4	3.0	
IST 75 -CT 200 - 4 - (O)	76	70	200	224	4	3.3	
IST 75 -CT 300 - 4 - (O)	76	70	300	324	4	3.9	
IST 75 -CT 400 - 4 - (O)	76	70	400	424	4	4.5	
IST 75 -CT 450 - 4 - (O)	76	70	450	474	4	4.8	
IST 75 -CT 500 - 4 - (O)	76	70	500	524	4	5.2	
IST 75 -CT 600 - 4 - (O)	76	70	600	624	4	5.8	
IST 75 -CT 750 - 4 - (O)	76	70	750	774	4	6.7	

Flanged Channel SOLID TRAY	SAFE WORKING LOAD							IST 75-CT
	1.5 m (5 ft.)	2.0 m (7 ft.)	2.5 m (8 ft.)	3.0 m (10 ft.)	3.5 m (11 ft.)	4.0 m (13 ft.)		
IST 75 -CT 100	320 Kg/m (215 Lbs/ft.)	120 Kg/m (81 Lbs/ft.)	65 Kg/m (44 Lbs/ft.)	35 Kg/m (24 Lbs/ft.)	20 Kg/m (13 Lbs/ft.)	14 Kg/m (9 Lbs/ft.)		
IST 75 -CT 150	325 Kg/m (218 Lbs/ft.)	135 Kg/m (91 Lbs/ft.)	68 Kg/m (46 Lbs/ft.)	38 Kg/m (26 Lbs/ft.)	23 Kg/m (15 Lbs/ft.)	15 Kg/m (10 Lbs/ft.)		
IST 75 -CT 200	335 Kg/m (225 Lbs/ft.)	140 Kg/m (94 Lbs/ft.)	70 Kg/m (47 Lbs/ft.)	40 Kg/m (27 Lbs/ft.)	24 Kg/m (16 Lbs/ft.)	16 Kg/m (11 Lbs/ft.)		
IST 75 -CT 300	350 Kg/m (235 Lbs/ft.)	160 Kg/m (108 Lbs/ft.)	80 Kg/m (54 Lbs/ft.)	48 Kg/m (32 Lbs/ft.)	32 Kg/m (22 Lbs/ft.)	20 Kg/m (13 Lbs/ft.)		
IST 75 -CT 400	380 Kg/m (255 Lbs/ft.)	180 Kg/m (121 Lbs/ft.)	110 Kg/m (74 Lbs/ft.)	60 Kg/m (40 Lbs/ft.)	38 Kg/m (26 Lbs/ft.)	25 Kg/m (17 Lbs/ft.)		
IST 75 -CT 450	420 Kg/m (282 Lbs/ft.)	220 Kg/m (148 Lbs/ft.)	130 Kg/m (87 Lbs/ft.)	80 Kg/m (54 Lbs/ft.)	50 Kg/m (34 Lbs/ft.)	30 Kg/m (20 Lbs/ft.)		
IST 75 -CT 500	450 Kg/m (302 Lbs/ft.)	245 Kg/m (165 Lbs/ft.)	140 Kg/m (94 Lbs/ft.)	95 Kg/m (64 Lbs/ft.)	55 Kg/m (37 Lbs/ft.)	35 Kg/m (24 Lbs/ft.)		
IST 75 -CT 600	485 Kg/m (326 Lbs/ft.)	265 Kg/m (178 Lbs/ft.)	145 Kg/m (97 Lbs/ft.)	98 Kg/m (66 Lbs/ft.)	57 Kg/m (38 Lbs/ft.)	37 Kg/m (25 Lbs/ft.)		
IST 75 -CT 750	520 Kg/m (349 Lbs/ft.)	300 Kg/m (202 Lbs/ft.)	175 Kg/m (118 Lbs/ft.)	105 Kg/m (71 Lbs/ft.)	60 Kg/m (40 Lbs/ft.)	40 Kg/m (27 Lbs/ft.)		

Flanged Channel Solid Tray IST 100-CT



Flanged Channel SOLID TRAY	Rail Height H (mm)	Loading Depth D (mm)	Load Width W (mm)	Overall Width OW (mm)	Overall Width L (m)	Std Length (m)	Tray Weight (Approx.) (Kg/m)
IST 100 -CT 150 - 4 - (O)	103	97.5	150	186	4	5.3	
IST 100 -CT 200 - 4 - (O)	103	97.5	200	236	4	5.8	
IST 100 -CT 300 - 4 - (O)	103	97.5	300	336	4	6.7	
IST 100 -CT 400 - 4 - (O)	103	97.5	400	436	4	7.6	
IST 100 -CT 500 - 4 - (O)	103	97.5	500	536	4	8.5	
IST 100 -CT 600 - 4 - (O)	103	97.5	600	636	4	9.4	
IST 100 -CT 700 - 4 - (O)	103	97.5	700	736	4	10.3	
IST 100 -CT 800 - 4 - (O)	103	97.5	800	836	4	11.2	
IST 100 -CT 900 - 4 - (O)	103	97.5	900	936	4	12.1	

Flanged Channel SOLID TRAY	SAFE WORKING LOAD						
	Load : Kg/m (Lbs/ft) / SPAN : m (ft)						
1.5 m (5 ft.)	2.0 m (7 ft.)	2.5 m (8 ft.)	3.0 m (10 ft.)	3.5 m (11 ft.)	4.0 m (13 ft.)		
IST 100 -CT 570 Kg/m (383 Lbs/ft.)	360 Kg/m (242 Lbs/ft.)	240 Kg/m (161 Lbs/ft.)	160 Kg/m (108 Lbs/ft.)	100 Kg/m (67 Lbs/ft.)	65 Kg/m (44 Lbs/ft.)		
IST 100 -CT 600 Kg/m (403 Lbs/ft.)	380 Kg/m (255 Lbs/ft.)	255 Kg/m (171 Lbs/ft.)	170 Kg/m (114 Lbs/ft.)	105 Kg/m (71 Lbs/ft.)	70 Kg/m (47 Lbs/ft.)		
IST 100 -CT 630 Kg/m (423 Lbs/ft.)	400 Kg/m (269 Lbs/ft.)	270 Kg/m (181 Lbs/ft.)	185 Kg/m (124 Lbs/ft.)	115 Kg/m (77 Lbs/ft.)	75 Kg/m (50 Lbs/ft.)		
IST 100 -CT 680 Kg/m (457 Lbs/ft.)	450 Kg/m (302 Lbs/ft.)	300 Kg/m (202 Lbs/ft.)	200 Kg/m (134 Lbs/ft.)	125 Kg/m (84 Lbs/ft.)	80 Kg/m (54 Lbs/ft.)		
IST 100 -CT 710 Kg/m (477 Lbs/ft.)	480 Kg/m (323 Lbs/ft.)	325 Kg/m (218 Lbs/ft.)	220 Kg/m (148 Lbs/ft.)	135 Kg/m (91 Lbs/ft.)	85 Kg/m (57 Lbs/ft.)		
IST 100 -CT 750 Kg/m (504 Lbs/ft.)	520 Kg/m (349 Lbs/ft.)	350 Kg/m (235 Lbs/ft.)	240 Kg/m (161 Lbs/ft.)	145 Kg/m (97 Lbs/ft.)	92 Kg/m (62 Lbs/ft.)		
IST 100 -CT 790 Kg/m (531 Lbs/ft.)	570 Kg/m (383 Lbs/ft.)	370 Kg/m (249 Lbs/ft.)	255 Kg/m (171 Lbs/ft.)	155 Kg/m (104 Lbs/ft.)	98 Kg/m (66 Lbs/ft.)		
IST 100 -CT 810 Kg/m (544 Lbs/ft.)	580 Kg/m (390 Lbs/ft.)	410 Kg/m (276 Lbs/ft.)	310 Kg/m (208 Lbs/ft.)	170 Kg/m (114 Lbs/ft.)	105 Kg/m (71 Lbs/ft.)		
IST 100 -CT 980 Kg/m (659 Lbs/ft.)	620 Kg/m (417 Lbs/ft.)	460 Kg/m (309 Lbs/ft.)	330 Kg/m (222 Lbs/ft.)	200 Kg/m (134 Lbs/ft.)	125 Kg/m (84 Lbs/ft.)		

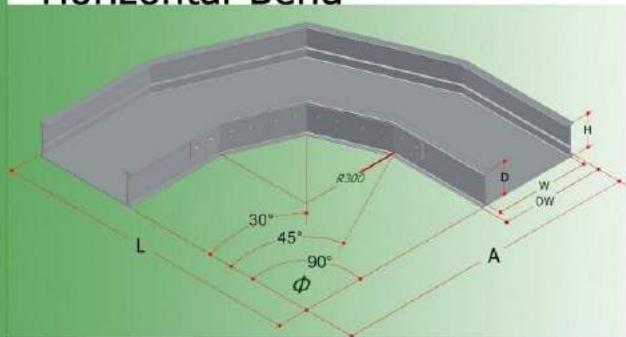
If you have a special design requirement, please contact **ITRAY** Cable Support System for options and availability.



Solid Channel Cable Tray Fittings & accessories

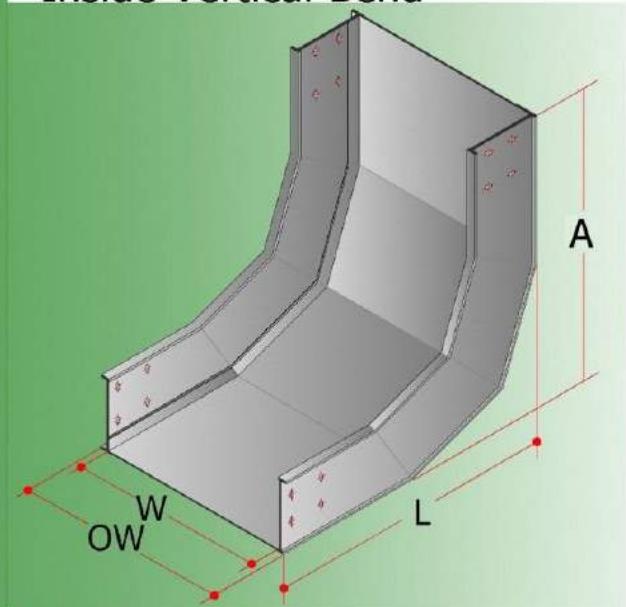


Horizontal Bend

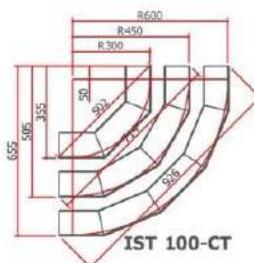
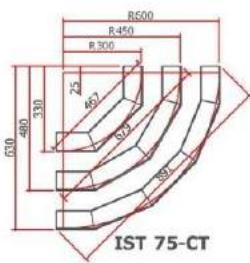
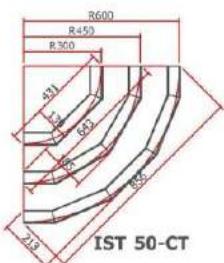


HORIZONTAL BEND TYPE	Loading Depth D	Radius R	OVERALL DIMENSION				Weight (Approx.)
			H	OW	A	L	
IHB 50 -CT 75 -300 - 90	47	300	50	95	475	475	1.4
IHB 50 -CT 100 -300 - 90	47	300	50	120	525	525	1.6
IHB 50 -CT 150 -300 - 90	47	300	50	170	625	625	2.2
IHB 50 -CT 200 -300 - 90	47	300	50	220	725	725	2.9
IHB 50 -CT 250 -300 - 90	47	300	50	270	825	825	3.6
IHB 50 -CT 300 -300 - 90	47	300	50	320	925	925	4.4
IHB 50 -CT 350 -300 - 90	47	300	50	370	1025	1025	5.4
IHB 50 -CT 400 -300 - 90	47	300	50	420	1125	1125	6.3
IHB 50 -CT 600 -300 - 90	47	300	50	620	1525	1525	11.1

Inside Vertical Bend



ITRAY available to provide radius 450, 600 with bend angle 30°, 45° and other special dimension by special request. Please contact us for your special request.



HORIZONTAL BEND TYPE	Loading Depth D	Radius R	OVERALL DIMENSION				Weight (Approx.)
			H	OW	A	L	
IHB 75 -CT 100 -300 - 90	70	300	75	124	529	529	2.9
IHB 75 -CT 150 -300 - 90	70	300	75	174	629	629	3.7
IHB 75 -CT 200 -300 - 90	70	300	75	224	729	729	4.6
IHB 75 -CT 300 -300 - 90	70	300	75	324	929	929	6.8
IHB 75 -CT 400 -300 - 90	70	300	75	424	1129	1129	9.2
IHB 75 -CT 450 -300 - 90	70	300	75	474	1229	1229	10.6
IHB 75 -CT 500 -300 - 90	70	300	75	524	1329	1329	12.1
IHB 75 -CT 600 -301 - 90	70	301	75	624	1530	1530	15.3
IHB 75 -CT 750 -302 - 90	70	302	75	774	1831	1831	20.8

HORIZONTAL BEND TYPE	Loading Depth D	Radius R	OVERALL DIMENSION				Weight (Approx.)
			H	OW	A	L	
IHB 100 -CT 150 -300 - 90	97.5	300	100	186	641	641	7.1
IHB 100 -CT 200 -300 - 90	97.5	300	100	236	741	741	8.8
IHB 100 -CT 300 -300 - 90	97.5	300	100	336	941	941	12.4
IHB 100 -CT 400 -300 - 90	97.5	300	100	436	1141	1141	16.5
IHB 100 -CT 500 -300 - 90	97.5	300	100	536	1341	1341	21.2
IHB 100 -CT 600 -300 - 90	97.5	300	100	636	1541	1541	26.4
IHB 100 -CT 700 -300 - 90	97.5	300	100	736	1741	1741	32.2
IHB 100 -CT 800 -300 - 90	97.5	300	100	836	1941	1941	38.5
IHB 100 -CT 900 -300 - 90	97.5	300	100	936	2141	2141	45.3

ITRAY available to provide radius 450, 600 with bend angle 30°, 45° and other special dimension by special request. Please contact us for your special request.

Inside Vertical 90° Bend TYPE	Loading Depth D	Radius R	OVERALL DIMENSION				Weight (Approx.)
			H	OW	A	L	
IIB 50 -CT 75 -300	26	300	50	95	300	300	1.17
IIB 50 -CT 100 -300	26	300	50	120	300	300	1.24
IIB 50 -CT 150 -300	26	300	50	170	300	300	1.4
IIB 50 -CT 200 -300	26	300	50	220	300	300	1.5
IIB 50 -CT 250 -300	26	300	50	270	300	300	1.7
IIB 50 -CT 300 -300	26	300	50	320	300	300	1.8
IIB 50 -CT 350 -300	26	300	50	370	300	300	1.9
IIB 50 -CT 400 -300	26	300	50	420	300	300	2.1
IIB 50 -CT 600 -300	26	300	50	620	300	300	2.7

IIB 75 -CT 100 -300	70	300	75	124	300	300	2.1
IIB 75 -CT 150 -300	70	300	75	174	300	300	2.3
IIB 75 -CT 200 -300	70	300	75	224	300	300	2.4
IIB 75 -CT 300 -300	70	300	75	324	300	300	2.7
IIB 75 -CT 400 -300	70	300	75	424	300	300	3.0
IIB 75 -CT 450 -300	70	300	75	474	300	300	3.2
IIB 75 -CT 500 -300	70	300	75	524	300	300	3.3
IIB 75 -CT 600 -300	70	300	75	624	300	300	3.6
IIB 75 -CT 750 -300	70	300	75	774	300	300	4.1
IIB 100 -CT 150 -300	97.5	300	100	186	300	300	6.7
IIB 100 -CT 200 -300	97.5	300	100	236	300	300	7.5
IIB 100 -CT 300 -300	97.5	300	100	336	300	300	9.1
IIB 100 -CT 400 -300	97.5	300	100	436	300	300	10.8
IIB 100 -CT 500 -300	97.5	300	100	536	300	300	12.4
IIB 100 -CT 600 -300	97.5	300	100	636	300	300	14.1
IIB 100 -CT 700 -300	97.5	300	100	736	300	300	15.7
IIB 100 -CT 800 -300	97.5	300	100	836	300	300	17.4
IIB 100 -CT 900 -300	97.5	300	100	936	300	300	19.0



MANAGEMENT
SYSTEMS
134

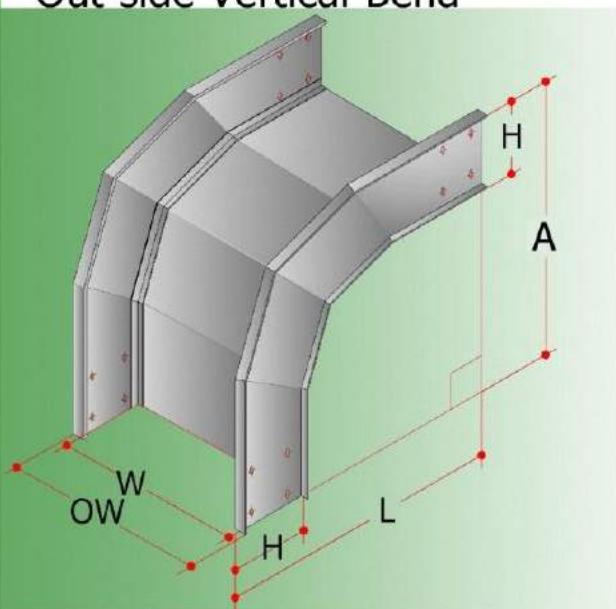


CERTIFIED
UL LISTED
CSA APPROVED

Solid Channel Cable Tray Fittings & accessories



Out side Vertical Bend

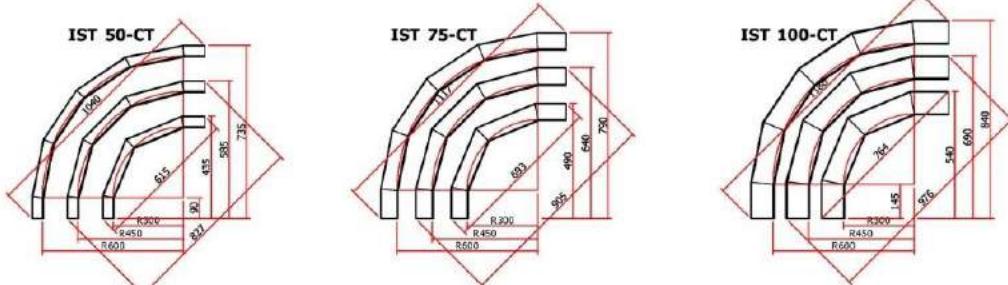


iTRAY available to provide radius 450, 600 with bend angle 30°, 45° and other special dimension by special request. Please contact us for your special request.

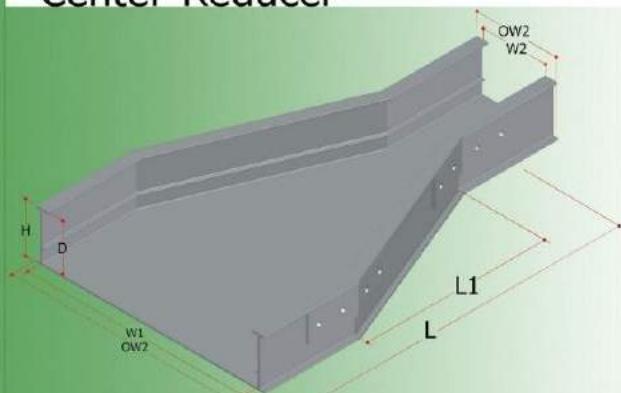
Outside Vertical 90° Bend TYPE H W R	Loading Depth D (mm)	Radius R (mm)	OVERALL DIMENSION				Weight (Approx.) (Kg)
			H	OW	A	L	
			(mm)	(mm)	(mm)	(mm)	
IOB 50 -CT 75 -300	26	300	50	95	575	575	1.1
IOB 50 -CT 100 -300	26	300	50	120	650	650	1.2
IOB 50 -CT 150 -300	26	300	50	170	800	800	1.4
IOB 50 -CT 200 -300	26	300	50	220	950	950	1.5
IOB 50 -CT 250 -300	26	300	50	270	1100	1100	1.7
IOB 50 -CT 300 -300	26	300	50	320	1250	1250	1.9
IOB 50 -CT 350 -300	26	300	50	370	1400	1400	2.0
IOB 50 -CT 400 -300	26	300	50	420	1550	1550	2.2
IOB 50 -CT 600 -300	26	300	50	620	2150	2150	2.9

IOB 75 -CT 100 -300	70	300	75	124	675	675	2.3
IOB 75 -CT 150 -300	70	300	75	174	825	825	2.5
IOB 75 -CT 200 -300	70	300	75	224	975	975	2.7
IOB 75 -CT 300 -300	70	300	75	324	1275	1275	3.0
IOB 75 -CT 400 -300	70	300	75	424	1575	1575	3.4
IOB 75 -CT 450 -300	70	300	75	474	1725	1725	3.6
IOB 75 -CT 500 -300	70	300	75	524	1875	1875	3.8
IOB 75 -CT 600 -300	70	300	75	624	2175	2175	4.2
IOB 75 -CT 750 -300	70	300	75	774	2625	2625	4.8

IOB 100 -CT 150 -300	97.5	300	100	186	850	850	5.0
IOB 100 -CT 200 -300	97.5	300	100	236	1000	1000	5.3
IOB 100 -CT 300 -300	97.5	300	100	336	1300	1300	6.0
IOB 100 -CT 400 -300	97.5	300	100	436	1600	1600	6.6
IOB 100 -CT 500 -300	97.5	300	100	536	1900	1900	7.2
IOB 100 -CT 600 -300	97.5	300	100	636	2200	2200	7.8
IOB 100 -CT 700 -300	97.5	300	100	736	2500	2500	8.4
IOB 100 -CT 800 -300	97.5	300	100	836	2800	2800	9.0
IOB 100 -CT 900 -300	97.5	300	100	936	3100	3100	9.6



Center Reducer



REDUCER CENTER (IST-50)	Loading Depth D (mm)	OVERALL DIMENSION					Weight (Approx.) (Kg)
		OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
IRC 50 -CT 100 /75	47	120	100	75	75	225	0.5
IRC 50 -CT 150 /100	47	170	150	100	150	300	0.8
IRC 50 -CT 200 /100	47	220	200	100	300	450	1.3
IRC 50 -CT 250 /150	47	270	250	150	300	450	1.4
IRC 50 -CT 300 /200	47	320	300	200	300	450	1.6
IRC 50 -CT 350 /200	47	370	350	200	450	600	2.3
IRC 50 -CT 400 /300	47	420	400	300	300	450	1.9
IRC 50 -CT 600 /400	47	620	600	400	600	750	4.1
IRC 50 -CT 300 /150	47	320	300	150	450	600	2.1
IRC 50 -CT 400 /150	47	420	400	150	750	900	3.8
IRC 50 -CT 600 /300	47	620	600	300	900	1050	5.8

REDUCER CENTER (IST-75)	Loading Depth D (mm)	OVERALL DIMENSION					Weight (Approx.) (Kg)
		OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
IRC 75 -CT 150 /100	70	174	150	100	150	375	1.6
IRC 75 -CT 200 /150	70	224	200	150	150	375	1.7
IRC 75 -CT 300 /200	70	324	300	200	300	525	2.8
IRC 75 -CT 400 /300	70	424	400	300	300	525	3.2
IRC 75 -CT 450 /300	70	474	450	300	450	675	4.3
IRC 75 -CT 500 /400	70	524	500	400	300	525	3.5
IRC 75 -CT 600 /500	70	624	600	500	300	525	3.9
IRC 75 -CT 750 /600	70	774	750	600	450	675	5.7
IRC 75 -CT 400 /250	70	424	400	250	450	675	4.1
IRC 75 -CT 500 /300	70	524	500	300	600	825	5.6
IRC 75 -CT 600 /400	70	624	600	400	600	825	6.1
IRC 75 -CT 750 /500	70	774	750	500	750	975	8.3
IRC 75 -CT 600 /300	70	624	600	300	900	1125	8.4
IRC 75 -CT 750 /400	70	774	750	400	1050	1275	10.9

(IST-100)

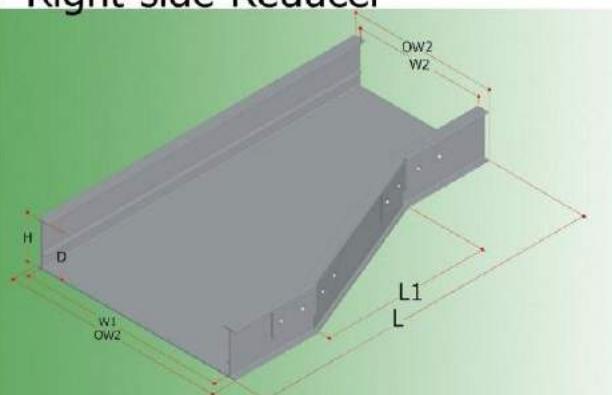
IRC 100 -CT 300 /200	97.5	336	300	200	300	600	5.8
IRC 100 -CT 450 /300	97.5	486	450	300	450	750	8.4
IRC 100 -CT 500 /450	97.5	536	500	450	150	450	5.3
IRC 100 -CT 600 /500	97.5	636	600	500	300	600	7.7
IRC 100 -CT 800 /600	97.5	836	800	600	600	900	13.4
IRC 100 -CT 900 /800	97.5	936	900	800	300	600	9.5
IRC 100 -CT 500 /300	97.5	536	500	300	600	900	10.6
IRC 100 -CT 600 /450	97.5	636	600	450	450	750	9.6
IRC 100 -CT 800 /500	97.5	836	800	500	900	1200	17.8
IRC 100 -CT 900 /600	97.5	936	900	600	900	1200	19.1
IRC 100 -CT 600 /350	97.5	636	600	350	750	1050	13.4
IRC 100 -CT 800 /400	97.5	836	800	400	1200	1500	22.3
IRC 100 -CT 900 /500	97.5	936	900	500	1200	1500	23.8
IRC 100 -CT 900 /400	97.5	936	900	400	1500	1800	28.6



Solid Channel **Cable Tray**



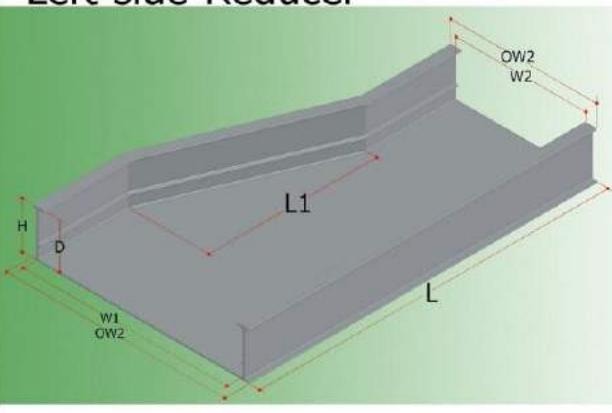
Right side Reducer



REDUCER RIGHT	Loading Depth	OVERALL DIMENSION						Weight (Approx.)
		D (mm)	OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
(IST-50)								
H	W1	W2						
IRR 50 -CT 100 /75	47	120	100	75	75	225	0.5	
IRR 50 -CT 150 /100	47	170	150	100	150	300	0.8	
IRR 50 -CT 200 /100	47	220	200	100	300	450	1.3	
IRR 50 -CT 250 /150	47	270	250	150	300	450	1.4	
IRR 50 -CT 300 /200	47	320	300	200	300	450	1.5	
IRR 50 -CT 350 /200	47	370	350	200	450	600	2.2	
IRR 50 -CT 400 /300	47	420	400	300	300	450	1.8	
IRR 50 -CT 600 /400	47	620	600	400	600	750	3.9	
IRR 50 -CT 300 /150	47	320	300	150	450	600	2.0	
IRR 50 -CT 400 /150	47	420	400	150	750	900	3.6	
IRR 50 -CT 600 /300	47	620	600	300	900	1050	5.5	

REDUCER RIGHT (IST-75)	Loading Depth H W1 W2	D (mm)	OVERALL DIMENSION					Weight (Approx.) (Kg)
			OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
IRR 75 -CT 150 /100	70	174	150	100	150	150	375	1.6
IRR 75 -CT 200 /150	70	224	200	150	150	375	1.7	
IRR 75 -CT 300 /200	70	324	300	200	300	525	2.7	
IRR 75 -CT 400 /300	70	424	400	300	300	525	3.1	
IRR 75 -CT 450 /300	70	474	450	300	450	675	4.2	
IRR 75 -CT 500 /400	70	524	500	400	300	525	3.4	
IRR 75 -CT 600 /500	70	624	600	500	300	525	3.7	
IRR 75 -CT 750 /600	70	774	750	600	450	675	5.5	
IRR 75 -CT 400 /250	70	424	400	250	450	675	3.9	
IRR 75 -CT 500 /300	70	524	500	300	600	825	5.3	
IRR 75 -CT 600 /400	70	624	600	400	600	825	5.9	
IRR 75 -CT 750 /500	70	774	750	500	750	975	7.9	
IRR 75 -CT 600 /300	70	624	600	300	900	1125	8.0	
IRR 75 -CT 570 /400	70	774	750	400	1050	1275	10.4	

Left side Reducer



REDUCER LEFT (IST-50)	H	W1	W2	Loading Depth D (mm)	OVERALL DIMENSION					Weight (Approx.) (KG)
					OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
IRL 50 -CT 100 /75	47	120	100	75	75	225				0.5
IRL 50 -CT 150 /100	47	170	150	100	150	300				0.8
IRL 50 -CT 200 /100	47	220	200	100	300	450				1.3
IRL 50 -CT 250 /150	47	270	250	150	300	450				1.4
IRL 50 -CT 300 /200	47	320	300	200	300	450				1.5
IRL 50 -CT 350 /200	47	370	350	200	450	600				2.2
IRL 50 -CT 400 /300	47	420	400	300	300	450				1.8
IRL 50 -CT 600 /400	47	620	600	400	600	750				3.9
IRL 50 -CT 300 /150	47	320	300	150	450	600				2.0
IRL 50 -CT 400 /150	47	420	400	150	750	900				3.6
IRL 50 -CT 600 /300	47	620	600	300	900	1050				5.5

REDUCER LEFT (IST-75) H W1 W2	Loading Depth D (mm)	OVERALL DIMENSION					Weight (Approx.) (Kg)
		OW (mm)	W1 (mm)	W2 (mm)	L1 (mm)	L (mm)	
IRL 75 -CT 150 /100	70	174	150	100	150	375	1.6
IRL 75 -CT 200 /150	70	224	200	150	150	375	1.7
IRL 75 -CT 300 /200	70	324	300	200	300	525	2.7
IRL 75 -CT 400 /300	70	424	400	300	300	525	3.1
IRL 75 -CT 450 /300	70	474	450	300	450	675	4.2
IRL 75 -CT 500 /400	70	524	500	400	300	525	3.4
IRL 75 -CT 600 /500	70	624	600	500	300	525	3.7
IRL 75 -CT 750 /600	70	774	750	600	450	675	5.5
IRL 75 -CT 400 /250	70	424	400	250	450	675	3.9
IRL 75 -CT 500 /300	70	524	500	300	600	825	5.3
IRL 75 -CT 600 /400	70	624	600	400	600	825	5.9
IRL 75 -CT 750 /500	70	774	750	500	750	975	7.9
IRL 75 -CT 600 /300	70	624	600	300	900	1125	8.0
IRL 75 -CT 250 /400	20	774	750	400	1050	1275	10.4

(IST-100)

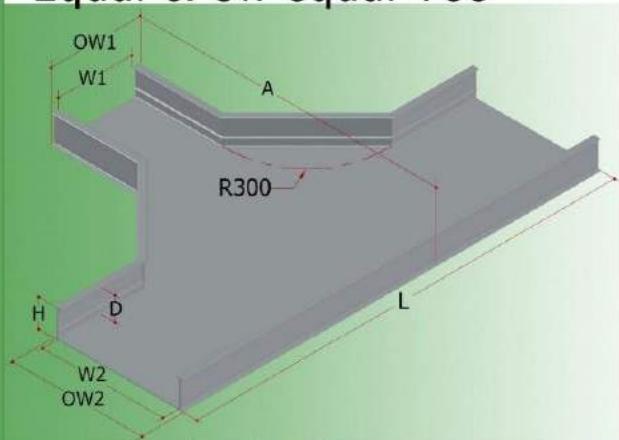
IRL 100 -CT 300 /200	97.5	336	300	200	300	600	5.7
IRL 100 -CT 450 /300	97.5	486	450	300	450	750	8.2
IRL 100 -CT 500 /450	97.5	536	500	450	150	450	5.1
IRL 100 -CT 600 /500	97.5	636	600	500	300	600	7.4
IRL 100 -CT 800 /600	97.5	836	800	600	600	900	12.8
IRL 100 -CT 900 /800	97.5	936	900	800	300	600	9.1
IRL 100 -CT 500 /300	97.5	536	500	300	600	900	10.2
IRL 100 -CT 600 /450	97.5	636	600	450	450	750	9.3
IRL 100 -CT 800 /500	97.5	836	800	500	900	1200	17.1
IRL 100 -CT 900 /600	97.5	936	900	600	900	1200	18.3
IRL 100 -CT 600 /350	97.5	636	600	350	750	1050	13.0
IRL 100 -CT 800 /400	97.5	836	800	400	1200	1500	21.4
IRL 100 -CT 900 /500	97.5	936	900	500	1200	1500	22.8
IRL 100 -CT 900 /400	97.5	936	900	400	1500	1800	27.4

 available to provide special dimension. Please contact us for your special request.



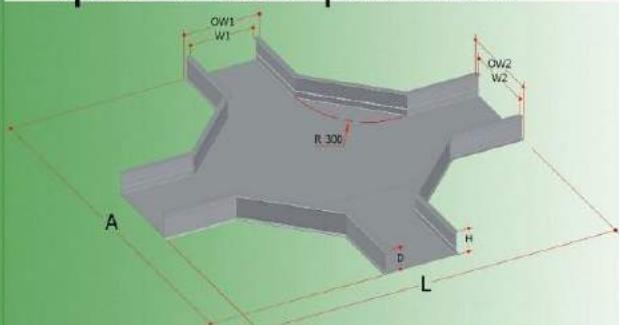
Solid Channel Cable Tray

Equal & Un-equal Tee



Horizontal Tee			Loading Depth D (mm)	Radius R (mm)	OVERALL DIMENSION				Weight (Approx.) (Kg)
TYPE	H	W			H (mm)	OW (mm)	A (mm)	L (mm)	
IHT 50 -CT 75 -300	47	300	50	95	450	525	1.6	525	1.6
IHT 50 -CT 100 -300	47	300	50	120	475	550	1.9	550	1.9
IHT 50 -CT 150 -300	47	300	50	170	525	600	2.4	600	2.4
IHT 50 -CT 200 -300	47	300	50	220	575	650	3.0	650	3.0
IHT 50 -CT 250 -300	47	300	50	270	625	700	3.6	700	3.6
IHT 50 -CT 300 -300	47	300	50	320	675	750	4.3	750	4.3
IHT 50 -CT 350 -300	47	300	50	370	725	800	5.1	800	5.1
IHT 50 -CT 400 -300	47	300	50	420	775	850	5.9	850	5.9
IHT 50 -CT 600 -300	47	300	50	620	975	1050	9.8	1050	9.8

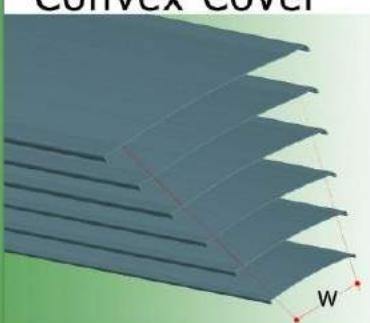
Equal & Un-equal Cross



EQUAL CROSS			Loading Depth D (mm)	Radius R (mm)	OVERALL DIMENSION				Weight (Approx.) (Kg)
TYPE	H	W			H (mm)	OW (mm)	A (mm)	L (mm)	
IHC 50 -CT 75 -300	47	300	50	95	600	600	0.93	600	0.93
IHC 50 -CT 100 -300	47	300	50	120	650	650	1.30	650	1.30
IHC 50 -CT 150 -300	47	300	50	170	750	750	2.18	750	2.18
IHC 50 -CT 200 -300	47	300	50	220	850	850	3.23	850	3.23
IHC 50 -CT 250 -300	47	300	50	270	950	950	4.47	950	4.47
IHC 50 -CT 300 -300	47	300	50	320	1050	1050	5.89	1050	5.89
IHC 50 -CT 350 -300	47	300	50	370	1150	1150	7.48	1150	7.48
IHC 50 -CT 400 -300	47	300	50	420	1250	1250	9.26	1250	9.26
IHC 50 -CT 600 -300	47	300	50	620	1650	1650	18.17	1650	18.17

iTRAY available fabricated un-equal cross with multi width for all orientation

Convex Cover



Convex Cover	Weight (Approx.) (kg/m²)
ILT_IST	
ICC-CL_CC 75	0.3
ICC-CL_CC 100	0.4
ICC-CL_CC 150	0.5
ICC-CL_CC 200	0.8
ICC-CL_CC 250	1.0
ICC-CL_CC 300	1.8
ICC-CL_CC 400	2.4
ICC-CL_CC 450	2.7
ICC-CL_CC 500	3.5
ICC-CL_CC 600	4.3
ICC-CL_CC 700	5.0
ICC-CL_CC 800	6.5
ICC-CL_CC 900	7.3

iTRAY convex cover made with contact molding hand lay up with upper side smooth gelcoat and compatible for cable tray ILT and IST Series. In any condition convex cover did not need installed without fastener bolting, but using compact quick clamp system.





PT. INTI COMPOSITE FIGLASINDO UTAMA
FRP, Composite Product Designer and Fabricator

Jl. Tekno 5, Block E1C - E1D, Kawasan Industri Jababeka 3
Cikarang - Bekasi 17650, Jawa Barat - Indonesia
Tel. +62-21-290 82 999 (H) Fax. +62-21-290 82 998

E-mail : info@icfu.net
Website: www.icfu.net



SAY NO
TO RUST
GET THEM
NO POROUS

i-TRAY
Dedicated Profile



www.fulgorindo.com



PT.FULGORINDO TEKNIK UTAMA

Manhattan Square Building, Floor 15 Th Jl. TB Simatupang Kav.1 S, Cilandak Timur,
Pasar Minggu, Jakarta Selatan 12560 - Indonesia
Tel. : +62-21-2940 7253 - 2808 2114; Fax. : +62-21-29407252