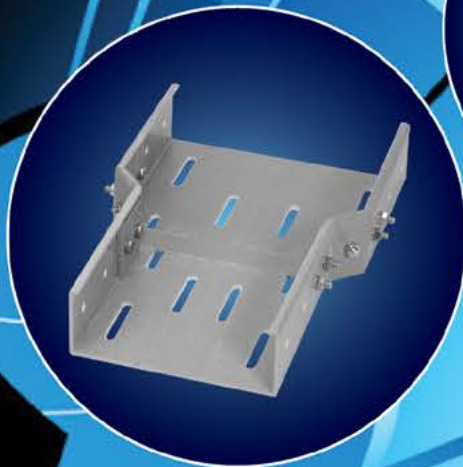
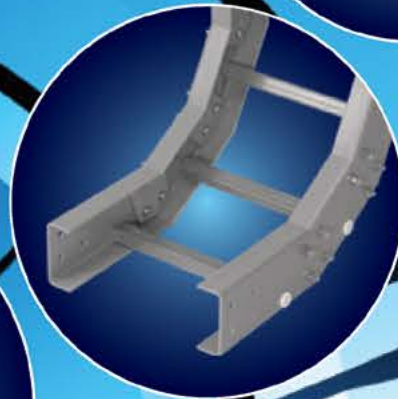
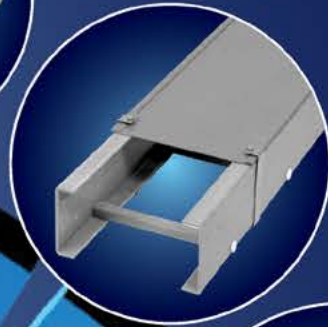
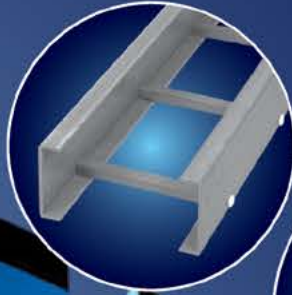




PULTRUDED FRP / GRP
CABLE LADDER & TRAY



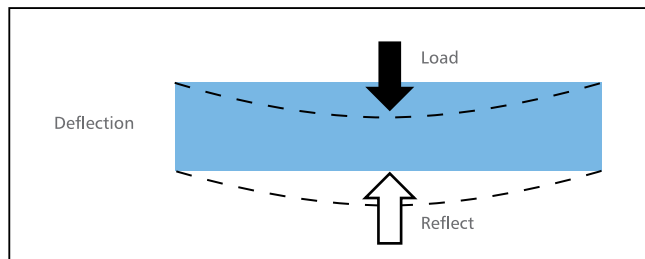
The Material of The Future

FRP (Fiberglass Reinforced Plastic) is produced from a combination of fiberglass reinforcements and thermosetting resins.

Since its introduction, this special millennium product has gained wide acceptance for its superior benefits and is presently used all over the world.



PULTRUSION is a process whereby glass fibre (Roving) is continuously pulled through a liquid resin bath until it reaches a heated die at the exit of the line. Here, the resin solidifies into the different profiles according to the various moulds. (Refer to diagram on page 2)



This continuous process gives added resistance to the tension, compression and flexibility of its products. It also provides higher strength resulting in a reinforced structure system that is capable of taking high loads. (For details, please refer to the safe working load graph).

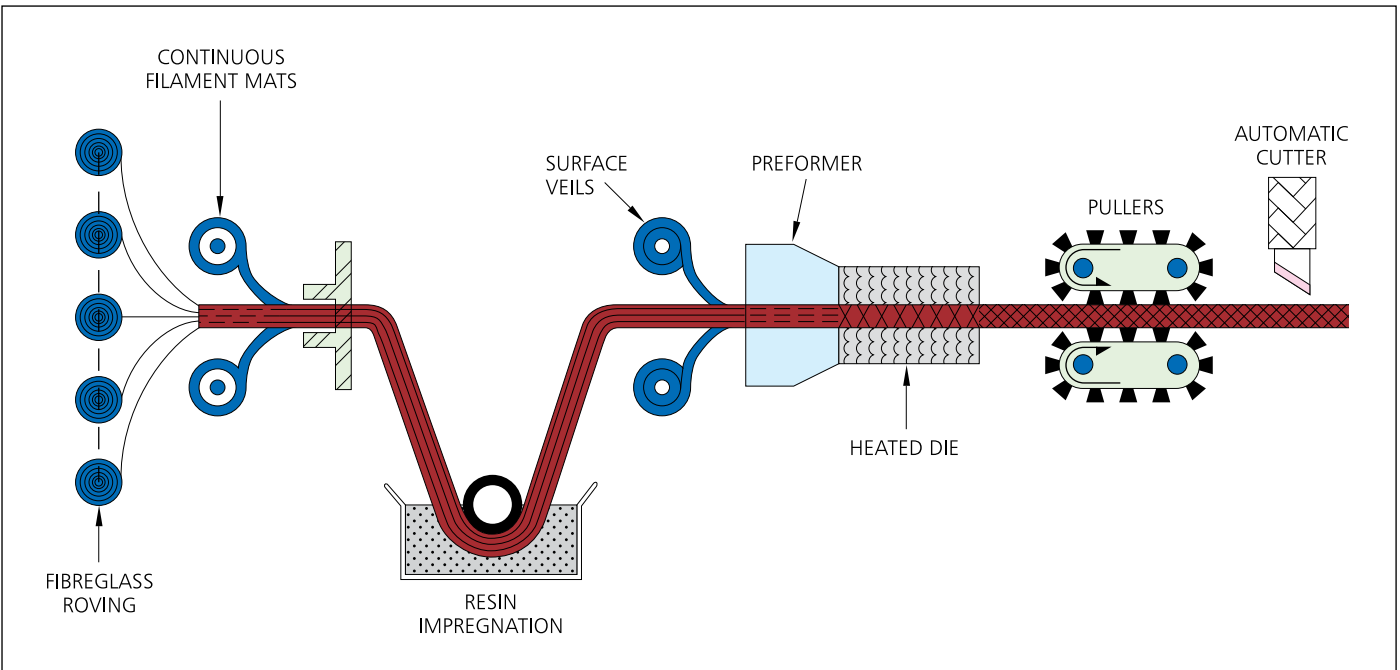
Benefits of Pultrusion FRP Products

- **Corrosion Resistant**
 - No rusting, peeling or flaking even under the most aggressive conditions in any part of the world.
- **Lightweight and Durable**
 - Allows easy handling and cutting.
 - Reduces size of platform structure.
- **Cost Effective**
 - Extremely long life compared to metal and other plastic materials.
 - Completely maintenance-free.
- **High Strength and Stiffness**
 - High glass content and continuous reinforcement, pultruded FRP products give extremely high strength and stiffness compared to molded FRP and other engineering plastic.
- **High Impact Resistant & Elastic**
 - Returns to original position without any permanent deflection or distortion within recommended allowable loads.
- **Superior UV Protection**
 - INTECH's integral UV protection system gives long-term shield against the damaging effects of UV rays.
- **Non-Conductive & Non-Interfering**
 - Complies to international electrical safety specifications.
 - Allows transmission of radio waves.
 - Non-magnetic.
- **Low Thermal Conductivity & Expansion Rate**
 - Will not transfer heat unlike metal.
 - No problem of expansion under heat.
- **Fire Retardant**
 - Complies to ASTM-E84 and BS 476 standards.



FRP Pultrusion Process

CONTINUOUS PULTRUSION



Roving & Mat

Unidirectional glass roving fibres give longitudinal reinforcement of the profile while mats give transverse strength

Resin

Bonds with the reinforcement, and provide resistance to chemicals.

Heated Die

Where polymerisation or curing takes place and product forms into the shape of the profile.

Pullers

Assures continuous drawing of the profile.

Automatic Cutter

Cuts product to the pre-set length.

PULTRUSION PROCESS

Pultrusion is a continuous moulding process fabricating products of uniform cross section such as I Beams, Channels, Flat Bars, Rods, Hollow Sections, etc. utilising glass fibre, resin, filler, peroxide and a release agent. The glass reinforcement is drawn into a resin impregnation zone where the glass substrate is thoroughly impregnated with the resin mixture. The wet fibrous material will be pulled through a preformer into a heated die. The shape of the end product is determined by the configuration of the die and the resin is then polymerised. This continuous and uniform method ensures consistency throughout the entire product length, therefore eliminating the possibility of weak spots.



Standards and Certification

INTECH's dedication towards excellent quality is reflected in all its FRP products that have been tested to comply with major international standards such as the ASTM, BS, NEMA and UL. The company's focus has always been to provide products and services that not only meet customers' requirements but also exceed their expectations, both locally and around the world.

Certification that stand as testimony of this commitment over the years include those conducted by following independent testing inspection organisation:

- **SIRIM**
- **SGS**
- **ABS**
- **Lloyds**
- **PSB**

Plastics Technology Group
SIRIM Berhad
Company No. 261474-F
Tel: (603) 65440540 Fax: (603) 65440539

EVALUATION REPORT

Title: Tensile Properties of "INTECH GRP Product"

Report No.: PTC/ER07496

Date: 3 December 2007

Project No.: P07582

Sample: "INTECH GRP Product"

Company Name: Intralink Techno Sdn Bhd

Address: Lot 7447/5, 7500, Jalan P4/1
Bandar Teknologi Kajang
Batu 18, Jalan Semenyih
43500 Semenyih
Selangor Darul Ehsan

Evaluated by: [Signature]

Checked by: [Signature]
Dr. Norazila Sulaiman

Approved by: [Signature]
Dr. Ahmad Fuzail Mat Yusoff
Head of Programme
Plastics Technology Group

Page 1 of 3

SGS (Malaysia) Sdn Bhd (Company No. 38075-1)
Wisma SGS, Lot 601, (Jalan Baga Loma)
Bukit Rimau, Kajang, Selangor, 43000 Kajang
Tel: (603) 3362 2220 Fax: (603) 3362 0816

Certificate No.: P58010106100300 (0028993) **Date:** 9th June 2006
Page: 1/1

CERTIFICATE OF INSPECTION
INTECH FRP CABLE LADDER "LSH SERIES, 900mm W x 152mm H"

"We hereby certify that the INTECH FRP Cable Ladder was tested in our presence at Intralink Techno Sdn Bhd, Taman Taming Jaya, Balinggi, Selangor, Malaysia and findings are as follows:

Details of FRP Cable Ladder
Span 6000

Open (mm)	Max Load Applied (kg)	Safe Working Load with SF 1.5 (kg)	Total Deflection (mm)
8006	200.74	133.820	253

Details of Load Test:
The test was applied throughout the total length of the straight cable ladder gradually (evenly distributed weight) and deflection readings were taken.

Application of load:
The test was applied throughout the total length of the straight cable ladder gradually (evenly distributed weight) and deflection readings were taken.

Requirements as per NEMA FC1-1995, Revision 1, Table 3-1
Span Length: 6.328 meters (20 Feet)
Class Designation as per 3.1: 20C

Details of Equipment used:
Deflection: Automatic Level Model G0154-C-41, Serial No. 025329
Measuring Staff: Model ALG-65

Weight Blocks: 6 pcs Steel Sheets with an total weight of 47.2 kg.
Sand bags with weights of 30 kg, 5 kg and 2.5 kg.

Date of Inspection: 8th June 2006

SGS (Malaysia) Sdn Bhd
Industrial Services

ABS
TYPE APPROVAL PROGRAM

Confirmation of Product Type Approval 31/MAR/2009

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This is to certify that, pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 14/JAN/2013. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And: a Product Design Assessment (PDA) valid until 24/SEP/2011 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitles the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that, whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

INTRALINK TECHNO SDN BHD
Model Name(s): "INTECH" Cable Ladder

Presented to: INTRALINK TECHNO SDN BHD
LOT 7447/5, 7500, JALAN P4/1
BANDAR TEKNOLOGI KAJANG, BATU 18
SEMENYIH
SELANGOR 43500
Malaysia

Intended Service: Marine and Offshore Installation

Description: Pultruded FRP Cable Ladder and Tray

Rating: Flame Retardant meeting ASTM E84 Class 1 (FBI+25A30D+450) and BS 476 Part 7 Class 1

Service Restrictions: <<Unit Certification is required for this product>> <<Unit Certification is not required for this product. If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.>>
>> Not Applicable

Comments: Not Applicable

Notes / Documentation: Certificate 01-00252570-PDA/1, dated 25/Sep/2009 is valid as noted from date of issue or until the applicable Rules or standards are revised (whichever occurs first). Product use on or after 1 January 2007, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted.

ABS Rules: This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the

LRQA
Business Assurance

CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

Intralink Techno Sdn. Bhd. (495364-M)
Semenyih, Selangor
Malaysia

Has been approved by Lloyd's Register Quality Assurance to the following Quality Management System Standards:

ISO 9001:2008
MS ISO 9001:2008

The Quality Management System is applicable to:

Design and manufacture of advanced composite materials such as fiberglass reinforced composite products.

Approval: Certificate No. KLR 043767 **Original Approval:** 11 March 2002
Current Certificate: 30 March 2011
Certificate Expiry: 10 March 2014

Issued by: Lloyd's Register of Shipping (M) Bhd
for and on behalf of Lloyd's Register Quality Assurance Ltd.

This document is subject to the provision on the reverse.

TEST REPORT

Your Ref.: **Date:** 24 Jan 2006

Order No.: 545005323/01/01 **Page:** 1 of 5

ID: 60653763 **Rev:** 60621433

NOTE: This report is issued subject to PSB Corporation's Terms and Conditions Governing Technical Services. The terms and conditions governing the use of this report are set out in detail within this report.

SUBJECT:
Large scale surface spread of flame test on "INTECH (Type LSH/TF) Fiberglass Reinforced Plastic panel material submitted by Intralink Techno Sdn. Bhd. on 27 Dec 2005".

TESTED FOR:
Intralink Techno Sdn. Bhd.
9, Jalan Taming 12
Taman Taming Jaya
43500 Balinggi
Selangor
Malaysia
Attn: Mr Ng Eng Boon

DATE OF TEST:
12 Jan 2006

PURPOSE OF TEST:
To determine the tendency of the surface of a material or a combination of materials to support the spread of flame across its surface and to classify the surface according to the test given in British Standard 476 : Part 7 : 1997.
The test was conducted at PSB Corporation fire test laboratory located at No. 10 Tuas Avenue 10, Singapore 639134.

PSB Corporation



INTECH Cable Support System

INTECH Cable Support System (Tray & Ladder) are designed to comply and exceed the global ecognized NEMA & IEC standards. Our products are designed and built to be anti-corrosive and non conductive coming with customizeable options for different grades of fire retardant and antistatic elements. INTECH cable support products are widely used to service the growing market segment within oil & gas, power generation, water treatment and renewable energy industry, solving all corrosion problems.

INTECH offers a comprehensive selection of resin options to align precisely with our customers' unique specifications. Ranging from our standard ISO resin to the high corrosion resistant VE resin, we are well-equipped to accommodate your requirements spanning chemical compatibility, fire resistance and smoke control. To specify your preferred resin variant, please append the appropriate resin code to the standard FRP article numbers, as illustrated below. This ensures precise alignment with your required specification.

INTECH FRP RESIN GUIDELINE

FRP RESIN	DESCRIPTION
ISOPHTHALIC RESIN Code: ISO (standard default)	Isophthalic Resin is the most commonly used resin that provides good corrosion and ultraviolet light resistance for various application.
VINYL ESTER Code: VE	VE resin is formulated for higher performance in the harshest chemical environment, providing superior resistance to corrosion and elevated temperatures. They are particularly well-suited for industries that handle robust chemical and caustic materials.
FIRE RETARDANT Code: FR (standard default)	INTECH FR products' resin has been specially formulated to meet flame retardant standards measuring a Flame spread index (FSI) of ≤ 25 in accordance to ASTM E84.
LOW SMOKE Code : Class A (reference to ASTM E84)	INTECH Class A Resin formulation has been designed to meet, not just the fire retardancy (FSI<25) but also, low smoke development index (SDI<400), achieving the highest specification of Class A standard in accordance to ASTM E84
ANTI STATIC Code: NT	INTECH resins can be imbued with anti-static properties to align with project specifications. Anti-static resins incorporate carbon powder, enhancing the material's conductivity in accordance to IEC60079.
Example of Description with Resin Code INTECH FRP C-Type Cable Tray, 50Ht Series ISO-FR , INTECH FRP Cable Ladder,LM Series, ISO-FR-NT	

HOW TO READ INTECH PRODUCT DESCRIPTION

INTECH system utilize letters and numbers to properly describe each of Intech product for effective identification. Refer below example for your reference.

ITLM-HB-90-300R-450-N	
CODE	DESCRIPTION
IT	Intralink Techno as Intech product manufacturer
LM	Product Series. For this example, LM is our LM Cable Ladder Series
HB	Body / Fittings. For this example HB is Horizontal Bend
90	Angle
300 R	Radius. For this example, 300R is 300mm radius
450	Product Width. For this example, 450 is 450mm Width
N	Perforation. For this example N is Non-Perforated Rung. P is Perforated

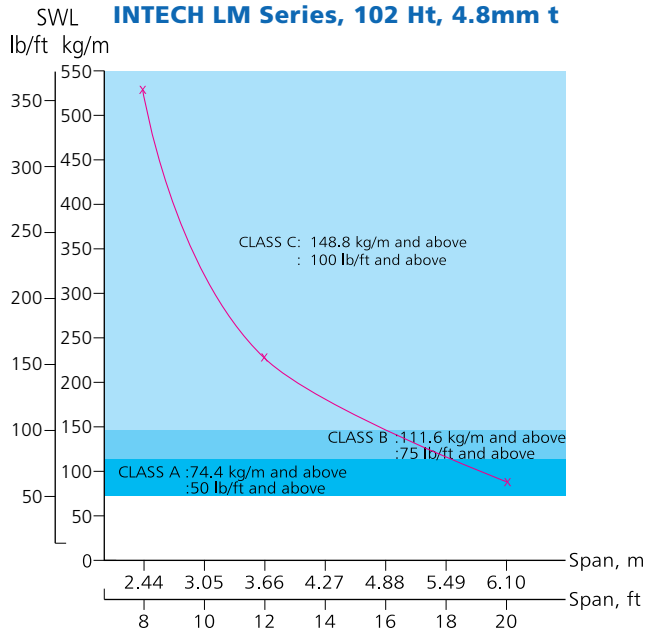
For full code description, please refer to our appendix

INTECH APPENDIX	
CODE	DESCRIPTION
FRP	Fibre Glass Reinforced Plastic
SS316	Stainless Steel 316
Ht	Height (mm) of ladder and tray side rail
W	Width (mm) of ladder & tray
t	Thickness (mm) of ladder & tray
R	Radius (mm) for ladder & tray fitting
LH	LH Ladder Series. 152mm Ht, 6.0mm t
LMH	LMH Ladder Series. 152mm Ht, 4.5mm t
LM	LM Ladder Series. 102mm Ht, 4.8mm t
LSH	LSH Ladder Series. 152mm Ht, 8.0mm t
SWL	Safe Working Load.
50Ht	50mm height Tray Series
110Ht	110mm height Tray Series
P	Perforated Rung (for ladder), Perforated Bottom (for tray)
N	Non-Perforated Rung (for ladder), Non-Perforated Bottom (for tray)
SS	Straight Section
HB	Horizontal Bend
IVB	Inside Vertical Bend
OVb	Outside Vertical Bend
HT	Horizontal Tee (Equal)
HUT	Horizontal Unequal Tee
HEC	Horizontal Equal Cross
RHR	Right Hand Reducer
LHR	Left Hand Reducer
SR	Straight Reducer

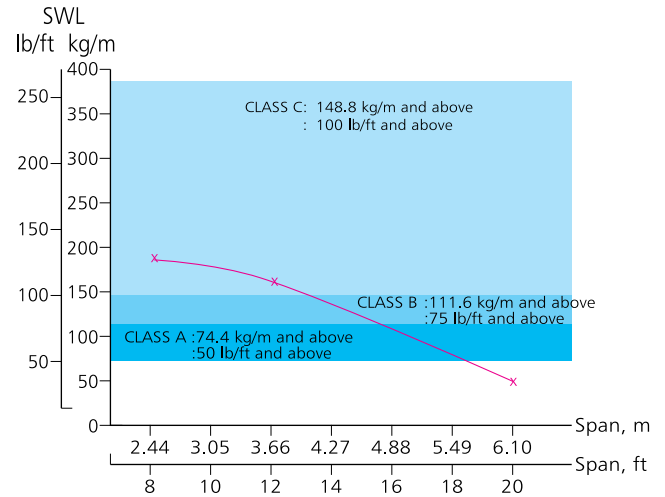


Safe Working Load-Cable Ladder

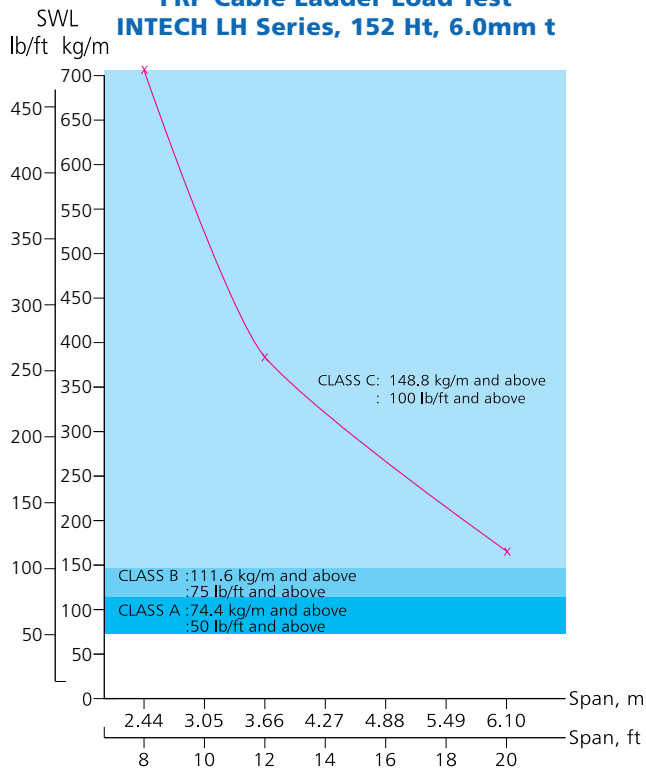
FRP Cable Ladder Load Test
INTECH LM Series, 102 Ht, 4.8mm t



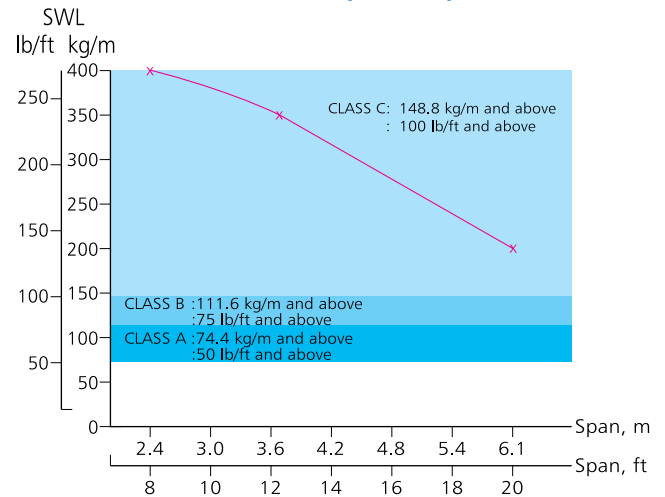
FRP Cable Ladder Load Test
INTECH LMH Series, 152 Ht, 4.5mm t



FRP Cable Ladder Load Test
INTECH LH Series, 152 Ht, 6.0mm t



FRP Cable Ladder Load Test
INTECH LSH Series, 152 Ht, 8.0mm t



INTECH FRP Cable Ladder Classification (NEMA FG1)

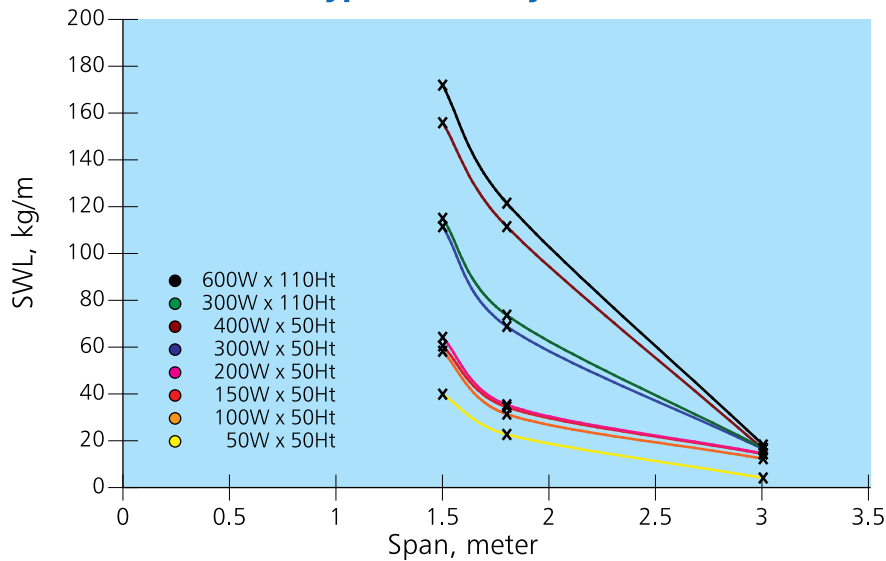
1		Span, ft	Class	Classification	3		Span, ft	Class	Classification
	LSH Series 152 Ht,	8 12 16 20	8C 12C 16C 20C	*NEMA FG1 20C		LMH Series 152 Ht,	8 12 16	8C 12C 16A	*NEMA FG1 12C
2					4				
	LH Series 152 Ht,	8 12 16 20	8C 12C 16C 20C	*NEMA FG1 20C		LM Series 102 Ht,	8 12 16	8C 12C 16B 20A	*NEMA FG1 12C

*Other range available upon request

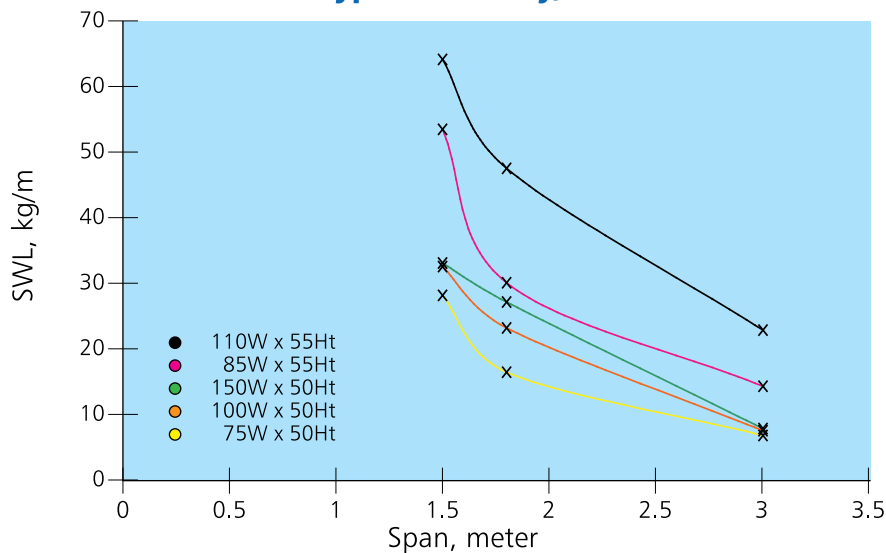
*SWL determined from load test in accordance with item 4.1 of NEMA FG1 with Safety Factor of 1.5.



Safe Working Load-Cable Tray

INTECH C Type Cable Tray, 50Ht & 110Ht

INTECH C Type Cable Tray, 50Ht & 110Ht			
Thk, mm	Width, mm	Height,mm	Safe Working Load for Span 1500, kg/m
3	50	50	39.5
3	100	50	57.9
3	150	50	60.2
3	200	50	63.8
3	300	50	111.1
4	400	50	155.6
3	300	110	114.7
3	600	110	171.5

INTECH U Type Cable Tray, 50Ht & 55Ht

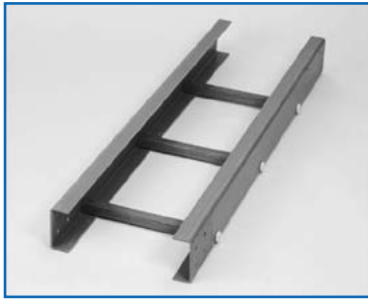
INTECH U Type Cable Tray, 50Ht & 55Ht			
Thk, mm	Width, mm	Height,mm	Safe Working Load for Span 1500, kg/m
3	75	50	28.5
3	100	50	32.4
3	150	50	33.0
5	85	55	53.3
5	110	55	64.0

***SWL determined from load test in accordance with item 4.1 of NEMA FG1 with Safety Factor of 1.5.**

***Other range available upon request**



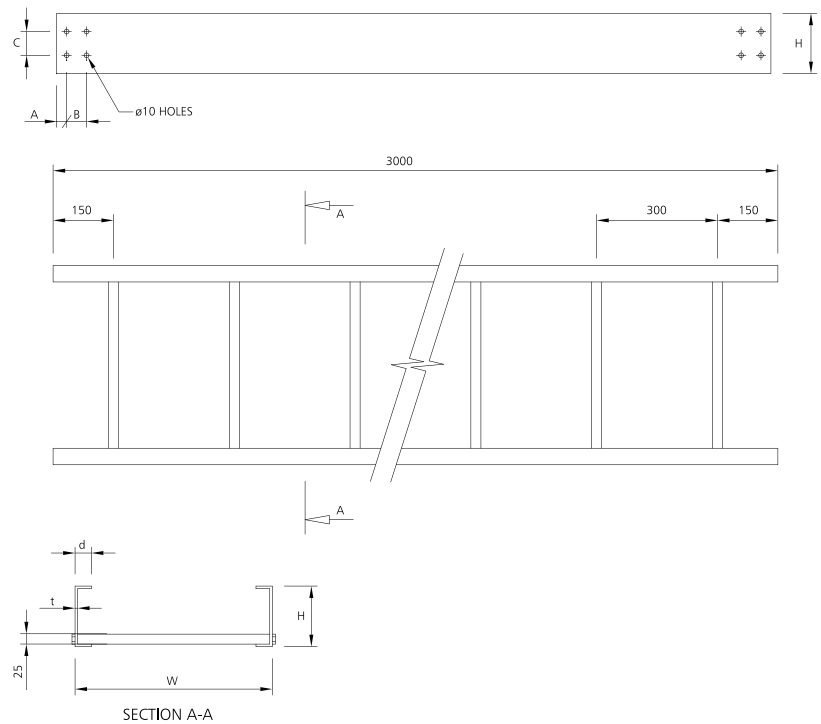
Cable Ladder - LM Series



LM Series-Straight Run

PART NO	WIDTH (mm)	PERFORATION
ITLM-SS-150-N	150	Non Perforated Rung
ITLM-SS-200-N	200	Non Perforated Rung
ITLM-SS-300-N	300	Non Perforated Rung
ITLM-SS-450-N	450	Non Perforated Rung
ITLM-SS-600-N	600	Non Perforated Rung
ITLM-SS-750-N	750	Non Perforated Rung
ITLM-SS-900-N	900	Non Perforated Rung

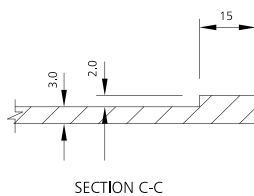
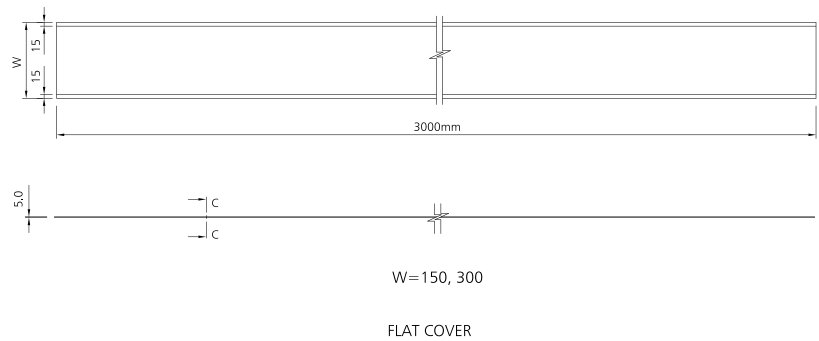
Straight Sections are available for Perforated Rung (-P)
For instance, **ITLM-SS-150-P**



SERIES	H	d	t	A	B	C	REMARKS
LM	102	41	4.8	24	50	40	All values in mm

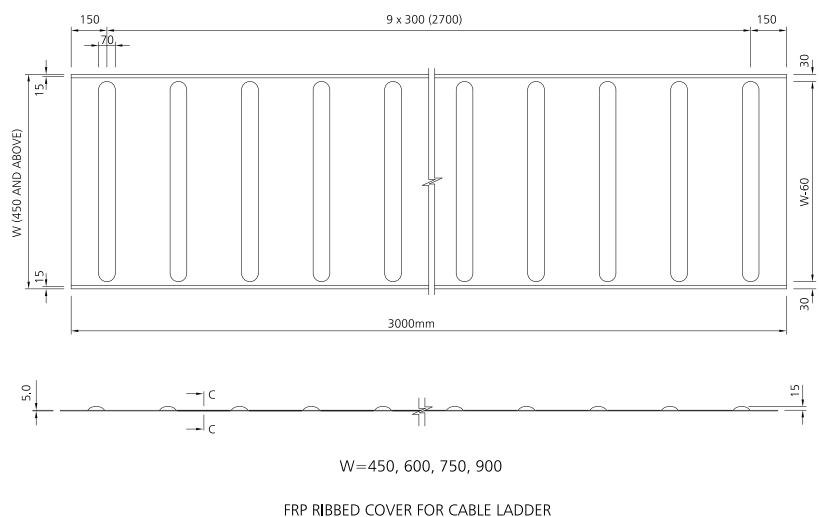


LM Series-Cover



PART NO	WIDTH (mm)	VENTILATION
ITCL-SS-150-C-N	150	Non-Ventilated Cover
ITCL-SS-200-C-N	200	Non-Ventilated Cover
ITCL-SS-300-C-N	300	Non-Ventilated Cover
ITCL-SS-450-C-N	450	Non-Ventilated Cover
ITCL-SS-600-C-N	600	Non-Ventilated Cover
ITCL-SS-750-C-N	750	Non-Ventilated Cover
ITCL-SS-900-C-N	900	Non-Ventilated Cover

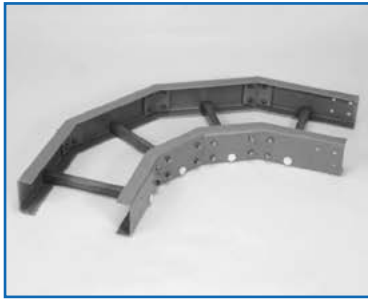
Covers are available for Ventilated (-V) option
For instance, **ITCL-SS-150-C-V**



* Thickness of FRP side rail for LM Series is 4.8mm unless otherwise specified.

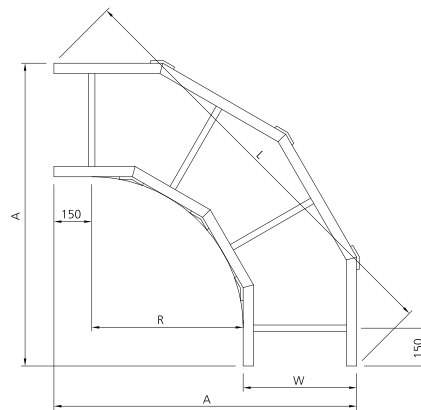


Cable Ladder - LM Series

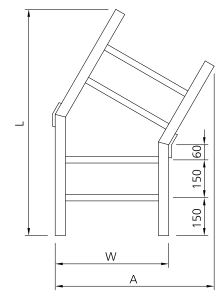


LM Series-Horizontal Bend

Fittings are available for R300, R450, R600, R900
Fittings are available for Perforated Rung (-P)
For instance, **ITLM-HB-90-900R-150-P**



90° HORIZONTAL BEND
(90° HB)



30°/45° HORIZONTAL BEND
(30°/45° HB)

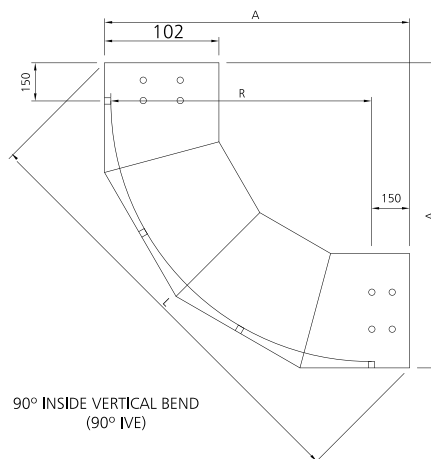
PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLM-HB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLM-HB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLM-HB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLM-HB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLM-HB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLM-HB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLM-HB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLM-HB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLM-HB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLM-HB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLM-HB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLM-HB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLM-HB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLM-HB-60-300R-900-N	60	300	900	Non Perforated Rung

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLM-HB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLM-HB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLM-HB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLM-HB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLM-HB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLM-HB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLM-HB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLM-HB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLM-HB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLM-HB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLM-HB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLM-HB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLM-HB-30-300R-750-N	30	300	700	Non Perforated Rung
ITLM-HB-30-300R-900-N	30	300	900	Non Perforated Rung

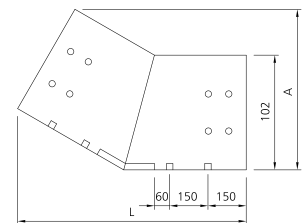


LM Series-Inside Vertical Bend

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLM-IVB-90-900R-150-P**



90° INSIDE VERTICAL BEND
(90° IVE)



30°/45° INSIDE VERTICAL BEND
(30°/45° IVE)

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLM-IVB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLM-IVB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLM-IVB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLM-IVB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLM-IVB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLM-IVB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLM-IVB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLM-IVB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLM-IVB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLM-IVB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLM-IVB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLM-IVB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLM-IVB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLM-IVB-60-300R-900-N	60	300	900	Non Perforated Rung

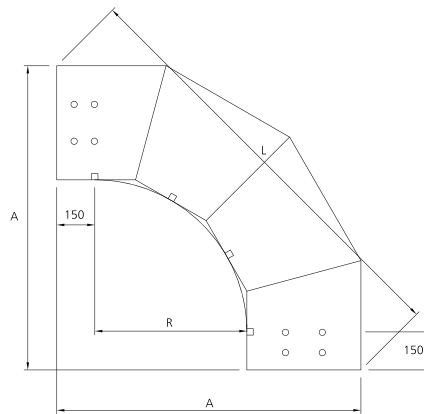
PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLM-IVB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLM-IVB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLM-IVB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLM-IVB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLM-IVB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLM-IVB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLM-IVB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLM-IVB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLM-IVB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLM-IVB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLM-IVB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLM-IVB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLM-IVB-30-300R-750-N	30	300	750	Non Perforated Rung
ITLM-IVB-30-300R-900-N	30	300	900	Non Perforated Rung



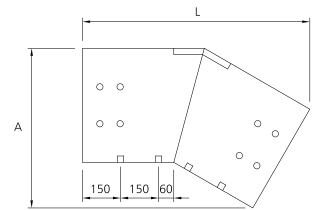
Cable Ladder - LM Series



LM Series-Outside Vertical Bend



90° OUTSIDE VERTICAL BEND
(90° OVE)



30°/45° OUTSIDE VERTICAL BEND
(30°/45° OVE)

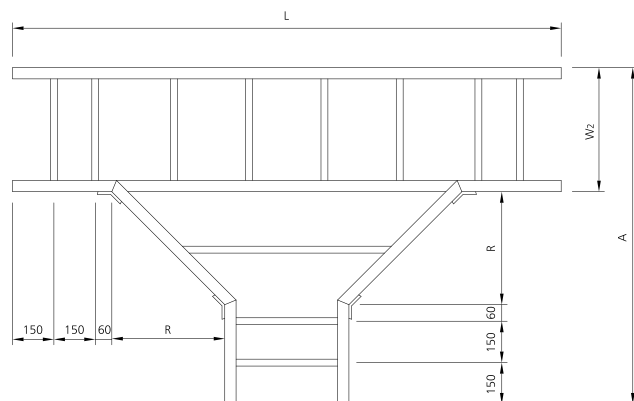
Fittings are available for R300, R450, R600, R900
Fittings are available for Perforated Rung (-P)
For instance, **ITLM-OVB-90-900R-150-P**

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLM-OVB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLM-OVB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLM-OVB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLM-OVB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLM-OVB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLM-OVB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLM-OVB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLM-OVB-60-300R-200-N	60	300	150	Non Perforated Rung
ITLM-OVB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLM-OVB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLM-OVB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLM-OVB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLM-OVB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLM-OVB-60-300R-900-N	60	300	900	Non Perforated Rung

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLM-OVB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLM-OVB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLM-OVB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLM-OVB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLM-OVB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLM-OVB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLM-OVB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLM-OVB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLM-OVB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLM-OVB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLM-OVB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLM-OVB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLM-OVB-30-300R-750-N	30	300	700	Non Perforated Rung
ITLM-OVB-30-300R-900-N	30	300	900	Non Perforated Rung



LM Series-Horizontal Tee



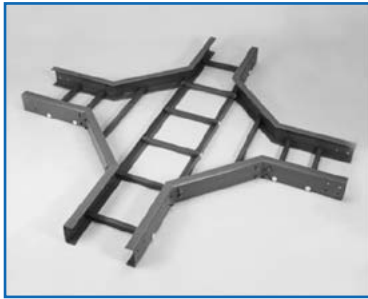
HORIZONTAL EQUAL TEE
(HT)

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLM-HT-900R-150-P**

PART NO	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLM-HT-300R-150-N	300	150	Non Perforated Rung
ITLM-HT-300R-200-N	300	200	Non Perforated Rung
ITLM-HT-300R-300-N	300	300	Non Perforated Rung
ITLM-HT-300R-450-N	300	450	Non Perforated Rung
ITLM-HT-300R-600-N	300	600	Non Perforated Rung
ITLM-HT-300R-750-N	300	750	Non Perforated Rung
ITLM-HT-300R-900-N	300	900	Non Perforated Rung



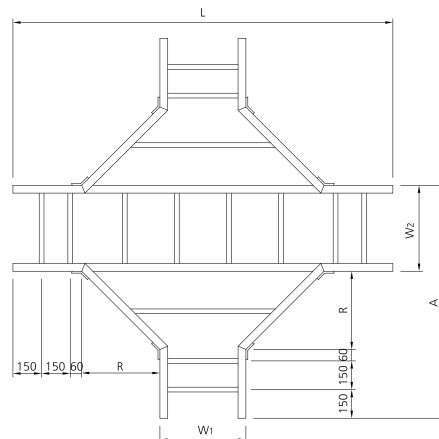
Cable Ladder - LM Series



LM Series-Horizontal Cross

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLM-HEC-900R-150-P**

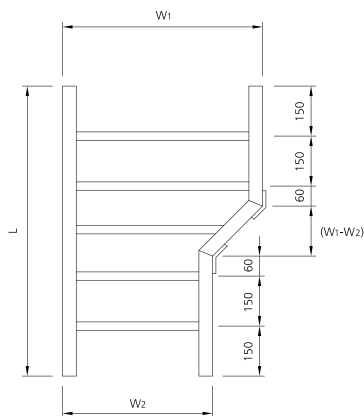
PART NO	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLM-HEC-300R-150-N	300	150	Non Perforated Rung
ITLM-HEC-300R-200-N	300	200	Non Perforated Rung
ITLM-HEC-300R-300-N	300	300	Non Perforated Rung
ITLM-HEC-300R-450-N	300	450	Non Perforated Rung
ITLM-HEC-300R-600-N	300	600	Non Perforated Rung
ITLM-HEC-300R-750-N	300	750	Non Perforated Rung
ITLM-HEC-300R-900-N	300	900	Non Perforated Rung



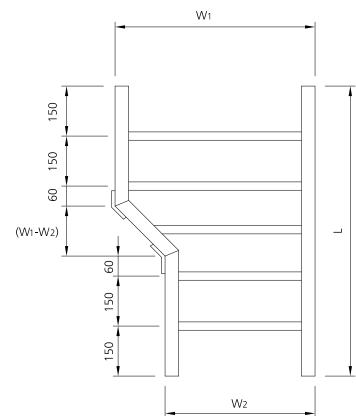
HORIZONTAL EQUAL CROSS
(HC)



LM Series-Left/Right
Hand Reducer



RIGHT HAND REDUCER
(RHR)



LEFT HAND REDUCER
(LHR)

Fittings are available for -P (Perforated Rung).
For instance, **ITLM-RHR-900-750-P**

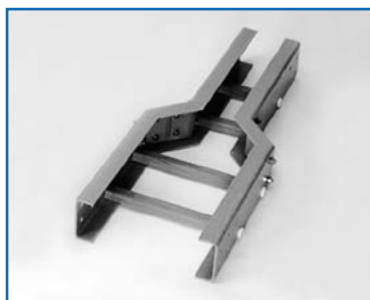
PART NO	WIDTH (mm)	PERFORATION
ITLM-RHR-900-750-N	900 - 750	Non Perforated Rung
ITLM-RHR-900-600-N	900 - 600	Non Perforated Rung
ITLM-RHR-900-450-N	900 - 450	Non Perforated Rung
ITLM-RHR-900-300-N	900 - 300	Non Perforated Rung
ITLM-RHR-900-150-N	900 - 150	Non Perforated Rung
ITLM-RHR-750-600-N	750 - 600	Non Perforated Rung
ITLM-RHR-750-450-N	750 - 450	Non Perforated Rung
ITLM-RHR-750-300-N	750 - 300	Non Perforated Rung
ITLM-RHR-750-150-N	750 - 150	Non Perforated Rung
ITLM-RHR-600-450-N	600 - 450	Non Perforated Rung
ITLM-RHR-600-300-N	600 - 300	Non Perforated Rung
ITLM-RHR-600-150-N	600 - 150	Non Perforated Rung
ITLM-RHR-450-300-N	450 - 300	Non Perforated Rung
ITLM-RHR-450-150-N	450 - 150	Non Perforated Rung
ITLM-RHR-300-150-N	300 - 150	Non Perforated Rung

Fittings are available for -P (Perforated Rung).
For instance, **ITLM-LHR-900-750-P**

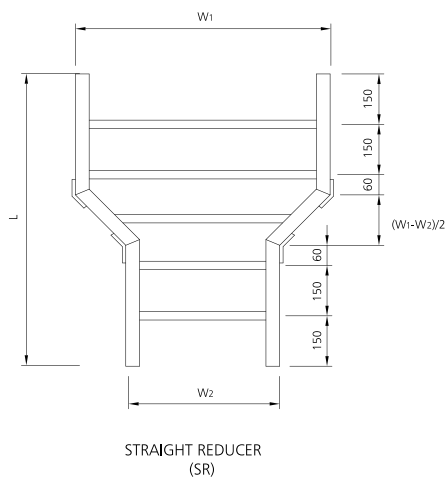
PART NO	WIDTH (mm)	PERFORATION
ITLM-LHR-900-750-N	900 - 750	Non Perforated Rung
ITLM-LHR-900-600-N	900 - 600	Non Perforated Rung
ITLM-LHR-900-450-N	900 - 450	Non Perforated Rung
ITLM-LHR-900-300-N	900 - 300	Non Perforated Rung
ITLM-LHR-900-150-N	900 - 150	Non Perforated Rung
ITLM-LHR-750-600-N	750 - 600	Non Perforated Rung
ITLM-LHR-750-450-N	750 - 450	Non Perforated Rung
ITLM-LHR-750-300-N	750 - 300	Non Perforated Rung
ITLM-LHR-750-150-N	750 - 150	Non Perforated Rung
ITLM-LHR-600-450-N	600 - 450	Non Perforated Rung
ITLM-LHR-600-300-N	600 - 300	Non Perforated Rung
ITLM-LHR-600-150-N	600 - 150	Non Perforated Rung
ITLM-LHR-450-300-N	450 - 300	Non Perforated Rung
ITLM-LHR-450-150-N	450 - 150	Non Perforated Rung
ITLM-LHR-300-150-N	300 - 150	Non Perforated Rung



Cable Ladder - LM Series



LM Series-Straight Reducer

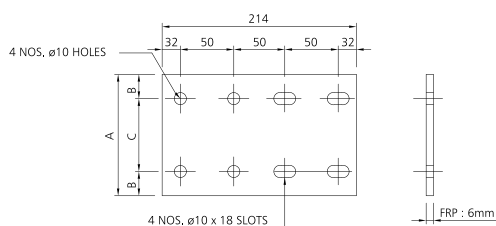


Fittings are available for -P (Perforated Rung).
For instance, **ITLM-SR-900-750-P**

PART NO	WIDTH (mm)	PERFORATION
ITLM-SR-900-750-N	900 - 750	Non Perforated Rung
ITLM-SR-900-600-N	900 - 600	Non Perforated Rung
ITLM-SR-900-450-N	900 - 450	Non Perforated Rung
ITLM-SR-900-300-N	900 - 300	Non Perforated Rung
ITLM-SR-900-150-N	900 - 150	Non Perforated Rung
ITLM-SR-750-600-N	750 - 600	Non Perforated Rung
ITLM-SR-750-450-N	750 - 450	Non Perforated Rung
ITLM-SR-750-300-N	750 - 300	Non Perforated Rung
ITLM-SR-750-150-N	750 - 150	Non Perforated Rung
ITLM-SR-600-450-N	600 - 450	Non Perforated Rung
ITLM-SR-600-300-N	600 - 300	Non Perforated Rung
ITLM-SR-600-150-N	600 - 150	Non Perforated Rung
ITLM-SR-450-300-N	450 - 300	Non Perforated Rung
ITLM-SR-450-150-N	450 - 150	Non Perforated Rung
ITLM-SR-300-150-N	300 - 150	Non Perforated Rung



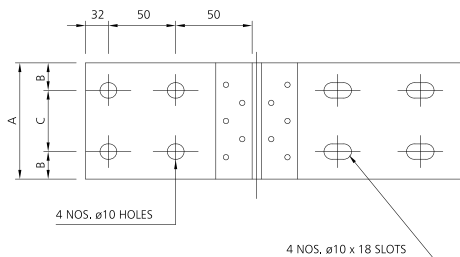
LM Series-Splice Plate



LM-EXPANSION SPLICE PLATE (ESP)

PART NUMBER	ITEM DESCRIPTION
ITLM-ESP-FRP SET-BN PH M8X25	LM Cable Ladder FRP Expansion Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

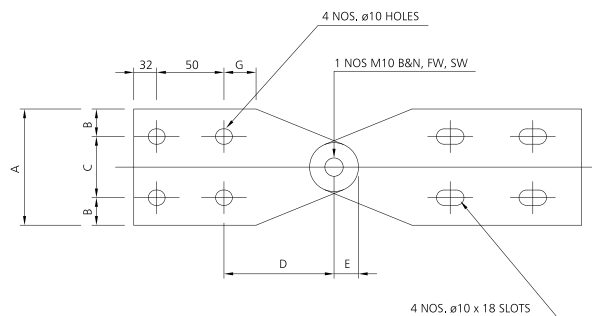
Expansion splice plates are available for SS316 type.
For instance **ITLM-ESP-SS**



HORIZONTAL ADJUSTABLE SPLICE PLATE
(HESP)

PART NUMBER	ITEM DESCRIPTION
ITLM-HASP-FRP SET-BN PH M8X25	LM Cable Ladder FRP Horizontal Adjustable Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

Horizontal adjustable splice plates are available for SS316 type.
For instance **ITLM-HASP-SS**



VERTICAL ADJUSTABLE SPLICE PLATE
(VESP)

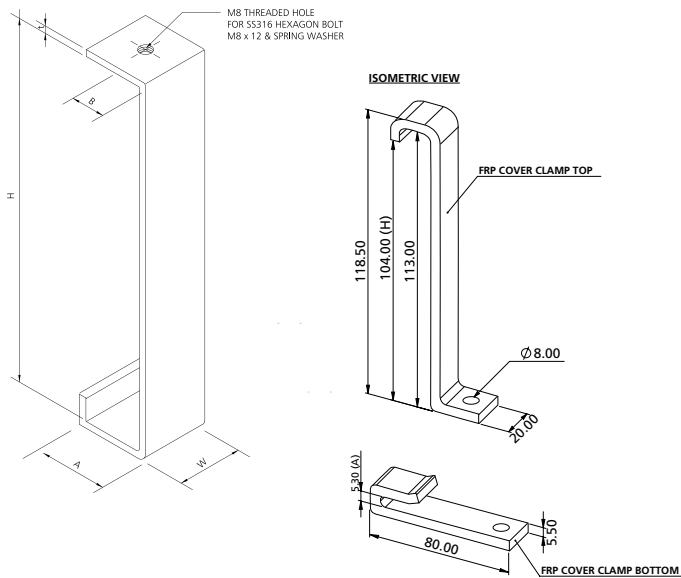
PART NUMBER	ITEM DESCRIPTION
ITLM-VASP-FRP SET-BN PH M8X25	LM Cable Ladder FRP Vertical Adjustable Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

Vertical adjustable splice plates are available for SS316 type.
For instance **ITLM-VASP-SS**



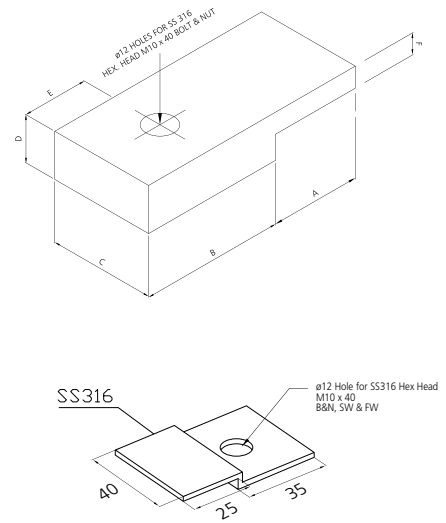
Cable Ladder - LM Series

LM Series-Cover Clamp



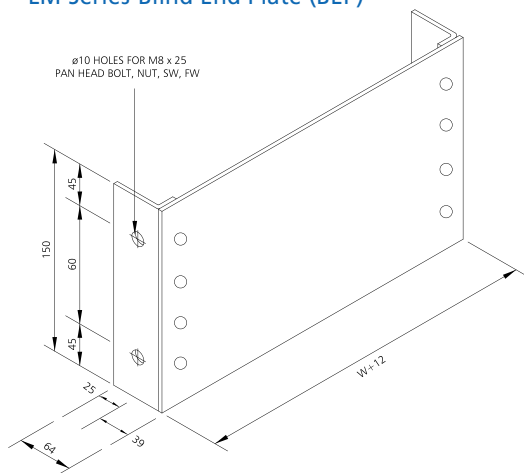
PART NUMBER	ITEM DESCRIPTION
ITLM-CC-SS SET-BN HH M8X12	LM Cable Ladder SS316 Cover Clamp SS316 Hex Head M8 x 12 Bolt & SW
ITLM-CC-FRP SET-BN PH M8X25	LM Cable Ladder FRP Cover Clamp SS316 Pan Head M8 x 25 B&N, SW & FW

LM Series-Hold Down Clamp - ITLM-HDC-FRP & ITLM-ZHDC-SS



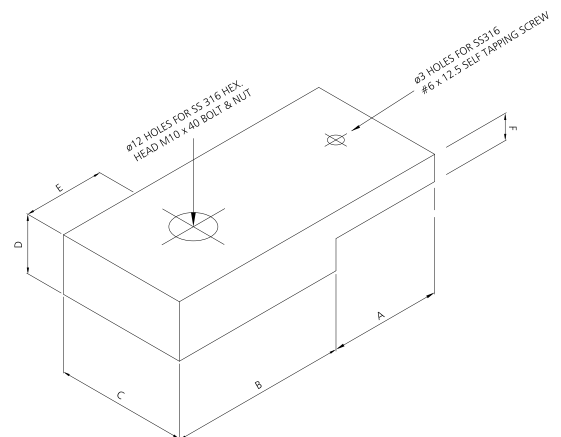
PART NUMBER	ITEM DESCRIPTION
ITLM-HDC-FRP ITLM-ZHDC-SS SET-BN HH M10X40	LM Cable Ladder FRP Hold Down Clamp LM Cable Ladder SS316 Z Hold Down Clamp SS316 Hex Head M10 x 40 B&N, SW & FW

LM Series-Blind End Plate (BEP)



PART NUMBER	ITEM DESCRIPTION
ITLM-BEP-150	LM Cable Ladder FRP Blind End Plate 150W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLM-BEP-200	LM Cable Ladder FRP Blind End Plate 200W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLM-BEP-300	LM Cable Ladder FRP Blind End Plate 300W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLM-BEP-450	LM Cable Ladder FRP Blind End Plate 450W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLM-BEP-600	LM Cable Ladder FRP Blind End Plate 600W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLM-BEP-750	LM Cable Ladder FRP Blind End Plate 750W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLM-BEP-900	LM Cable Ladder FRP Blind End Plate 900W SS316 Pan Head M8 x 25 B&N, SW & FW

LM Series-Vertical Fixing Clamp (VFC)



PART NUMBER	ITEM DESCRIPTION
ITLM-VFC-FRP	LM Cable Ladder FRP Vertical Fixing Clamp SS316 Hex Head M10 x 40 B&N, SW & FW SS316 Self Tapping Screw

Vertical fixing clamps are available for SS316 type. For instance **ITLM-VFC-SS**



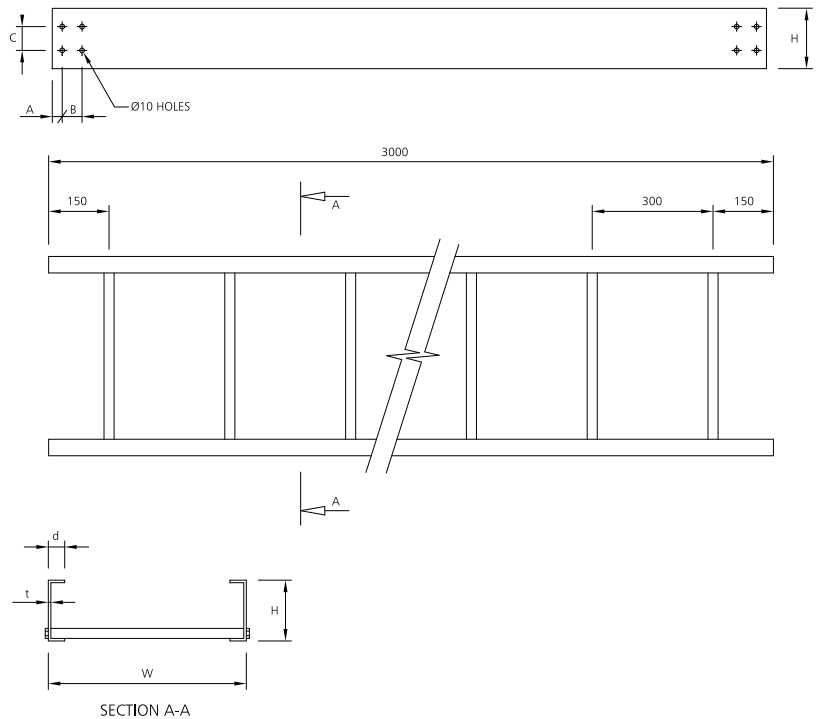
Cable Ladder - LMH Series



LMH Series-Straight Run

PART NO	WIDTH (mm)	PERFORATION
ITLMH-SS-150-N	150	Non Perforated Rung
ITLMH-SS-200-N	200	Non Perforated Rung
ITLMH-SS-300-N	300	Non Perforated Rung
ITLMH-SS-450-N	450	Non Perforated Rung
ITLMH-SS-600-N	600	Non Perforated Rung
ITLMH-SS-750-N	750	Non Perforated Rung
ITLMH-SS-900-N	900	Non Perforated Rung

Straight Sections are available for Perforated Rung (-P)
For instance, **ITLMH-SS-150-P**

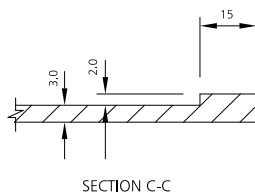
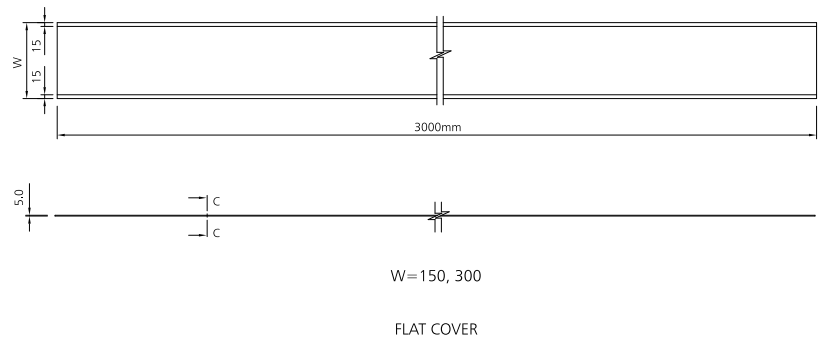


SECTION A-A

SERIES	H	d	t	A	B	C	REMARKS
LMH	152	41	4.5	24	50	60	All values in mm



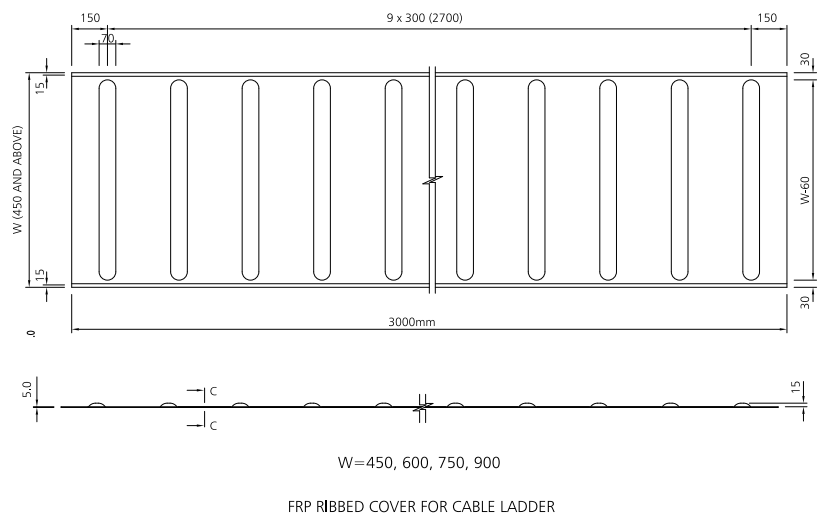
LMH Series-Cover



SECTION C-C

PART NO	WIDTH (mm)	VENTILATION
ITCL-SS-150-C-N	150	Non-Ventilated Cover
ITCL-SS-200-C-N	200	Non-Ventilated Cover
ITCL-SS-300-C-N	300	Non-Ventilated Cover
ITCL-SS-450-C-N	450	Non-Ventilated Cover
ITCL-SS-600-C-N	600	Non-Ventilated Cover
ITCL-SS-750-C-N	750	Non-Ventilated Cover
ITCL-SS-900-C-N	900	Non-Ventilated Cover

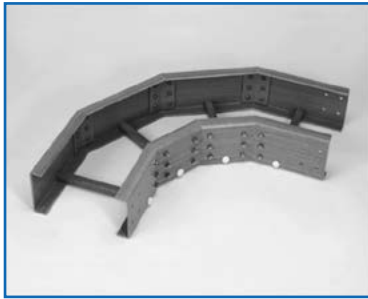
Covers are available for Ventilated (-V) option
For instance, **ITCL-SS-150-C-V**



* Thickness of FRP side rail for LMH Series is 4.5mm unless otherwise specified.

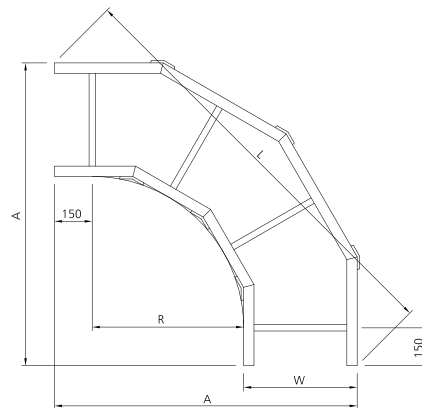


Cable Ladder - LMH Series

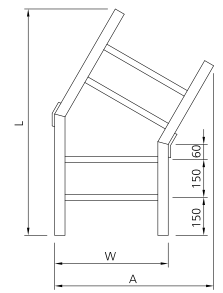


LMH Series-Horizontal Bend

Fittings are available for R300, R450, R600, R900
Fittings are available for Perforated Rung (-P)
For instance, **ITLMH-HB-90-900R-150-P**



90° HORIZONTAL BEND
(90° HB)



30°/45° HORIZONTAL BEND
(30°/45° HB)

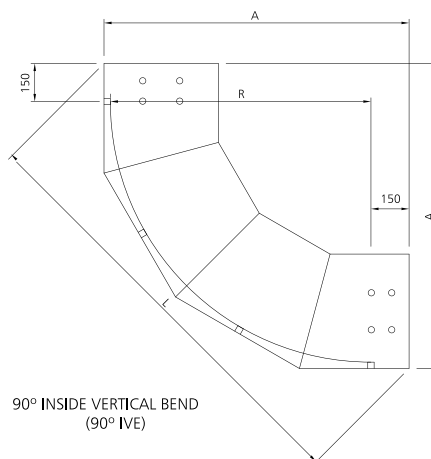
PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLMH-HB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLMH-HB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLMH-HB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLMH-HB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLMH-HB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLMH-HB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLMH-HB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLMH-HB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLMH-HB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLMH-HB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLMH-HB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLMH-HB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLMH-HB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLMH-HB-60-300R-900-N	60	300	900	Non Perforated Rung

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLMH-HB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLMH-HB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLMH-HB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLMH-HB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLMH-HB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLMH-HB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLMH-HB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLMH-HB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLMH-HB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLMH-HB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLMH-HB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLMH-HB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLMH-HB-30-300R-750-N	30	300	700	Non Perforated Rung
ITLMH-HB-30-300R-900-N	30	300	900	Non Perforated Rung

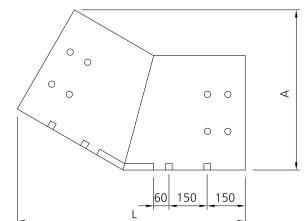


LMH Series-Inside Vertical Bend

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLMH-IVB-90-900R-150-P**



90° INSIDE VERTICAL BEND
(90° IVE)



45°/30° INSIDE VERTICAL BEND
(45°/30° IVE)

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLMH-IVB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLMH-IVB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLMH-IVB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLMH-IVB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLMH-IVB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLMH-IVB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLMH-IVB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLMH-IVB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLMH-IVB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLMH-IVB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLMH-IVB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLMH-IVB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLMH-IVB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLMH-IVB-60-300R-900-N	60	300	900	Non Perforated Rung

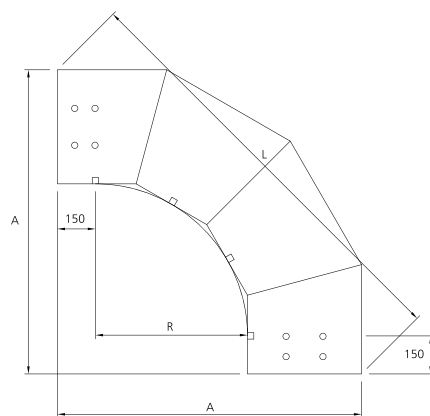
PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLMH-IVB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLMH-IVB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLMH-IVB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLMH-IVB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLMH-IVB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLMH-IVB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLMH-IVB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLMH-IVB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLMH-IVB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLMH-IVB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLMH-IVB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLMH-IVB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLMH-IVB-30-300R-750-N	30	300	750	Non Perforated Rung
ITLMH-IVB-30-300R-900-N	30	300	900	Non Perforated Rung



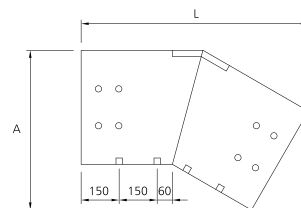
Cable Ladder - LMH Series



LMH Series-Outside Vertical Bend



90° OUTSIDE VERTICAL BEND
(90° OVE)



30°/45° OUTSIDE VERTICAL BEND
(30°/45° OVE)

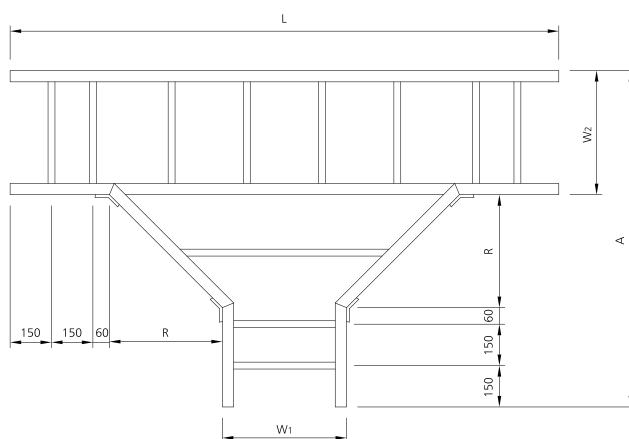
Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLMH-OVB-90-900R-150-P**

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLMH-OVB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLMH-OVB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLMH-OVB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLMH-OVB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLMH-OVB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLMH-OVB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLMH-OVB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLMH-OVB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLMH-OVB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLMH-OVB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLMH-OVB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLMH-OVB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLMH-OVB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLMH-OVB-60-300R-900-N	60	300	900	Non Perforated Rung

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLMH-OVB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLMH-OVB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLMH-OVB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLMH-OVB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLMH-OVB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLMH-OVB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLMH-OVB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLMH-OVB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLMH-OVB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLMH-OVB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLMH-OVB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLMH-OVB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLMH-OVB-30-300R-750-N	30	300	700	Non Perforated Rung
ITLMH-OVB-30-300R-900-N	30	300	900	Non Perforated Rung



LMH Series-Horizontal Tee



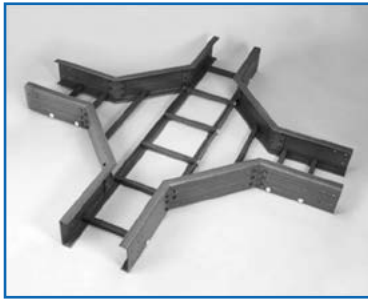
HORIZONTAL EQUAL TEE
(HT)

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLMH-HT-900R-150-P**

PART NO	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLMH-HT-300R-150-N	300	150	Non Perforated Rung
ITLMH-HT-300R-200-N	300	200	Non Perforated Rung
ITLMH-HT-300R-300-N	300	300	Non Perforated Rung
ITLMH-HT-300R-450-N	300	450	Non Perforated Rung
ITLMH-HT-300R-600-N	300	600	Non Perforated Rung
ITLMH-HT-300R-750-N	300	750	Non Perforated Rung
ITLMH-HT-300R-900-N	300	900	Non Perforated Rung



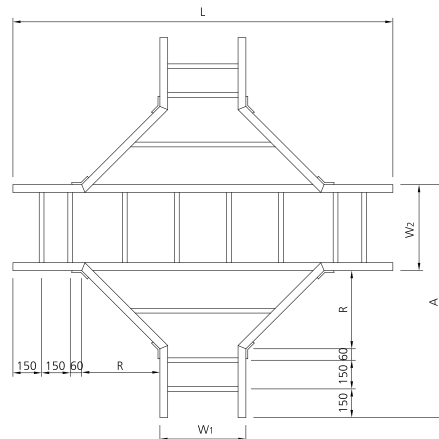
Cable Ladder - LMH Series



LMH Series-Horizontal Cross

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLMH-HEC-900R-150-P**

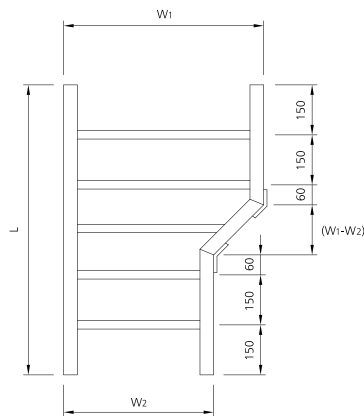
PART NO	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLMH-HEC-300R-150-N	300	150	Non Perforated Rung
ITLMH-HEC-300R-200-N	300	200	Non Perforated Rung
ITLMH-HEC-300R-300-N	300	300	Non Perforated Rung
ITLMH-HEC-300R-450-N	300	450	Non Perforated Rung
ITLMH-HEC-300R-600-N	300	600	Non Perforated Rung
ITLMH-HEC-300R-750-N	300	750	Non Perforated Rung
ITLMH-HEC-300R-900-N	300	900	Non Perforated Rung



HORIZONTAL EQUAL CROSS
(HC)



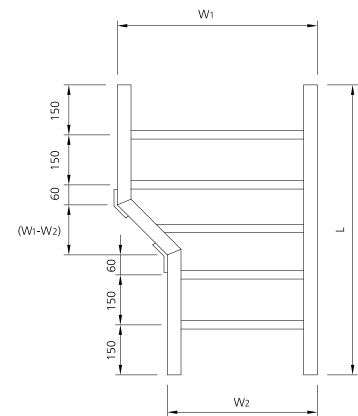
LMH Series-Left/Right
Hand Reducer



RIGHT HAND REDUCER
(RHR)

Fittings are available for -P (Perforated Rung).
For instance, **ITLMH-RHR-900-750-P**

PART NO	WIDTH (mm)	PERFORATION
ITLMH-RHR-900-750-N	900 - 750	Non Perforated Rung
ITLMH-RHR-900-600-N	900 - 600	Non Perforated Rung
ITLMH-RHR-900-450-N	900 - 450	Non Perforated Rung
ITLMH-RHR-900-300-N	900 - 300	Non Perforated Rung
ITLMH-RHR-900-150-N	900 - 150	Non Perforated Rung
ITLMH-RHR-750-600-N	750 - 600	Non Perforated Rung
ITLMH-RHR-750-450-N	750 - 450	Non Perforated Rung
ITLMH-RHR-750-300-N	750 - 300	Non Perforated Rung
ITLMH-RHR-750-150-N	750 - 150	Non Perforated Rung
ITLMH-RHR-600-450-N	600 - 450	Non Perforated Rung
ITLMH-RHR-600-300-N	600 - 300	Non Perforated Rung
ITLMH-RHR-600-150-N	600 - 150	Non Perforated Rung
ITLMH-RHR-450-300-N	450 - 300	Non Perforated Rung
ITLMH-RHR-450-150-N	450 - 150	Non Perforated Rung
ITLMH-RHR-300-150-N	300 - 150	Non Perforated Rung



LEFT HAND REDUCER
(LHR)

Fittings are available for -P (Perforated Rung).
For instance, **ITLMH-LHR-900-750-P**

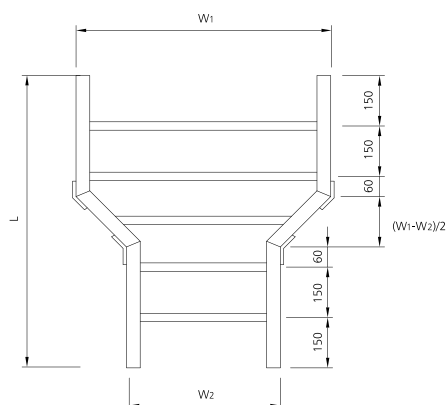
PART NO	WIDTH (mm)	PERFORATION
ITLMH-LHR-900-750-N	900 - 750	Non Perforated Rung
ITLMH-LHR-900-600-N	900 - 600	Non Perforated Rung
ITLMH-LHR-900-450-N	900 - 450	Non Perforated Rung
ITLMH-LHR-900-300-N	900 - 300	Non Perforated Rung
ITLMH-LHR-900-150-N	900 - 150	Non Perforated Rung
ITLMH-LHR-750-600-N	750 - 600	Non Perforated Rung
ITLMH-LHR-750-450-N	750 - 450	Non Perforated Rung
ITLMH-LHR-750-300-N	750 - 300	Non Perforated Rung
ITLMH-LHR-750-150-N	750 - 150	Non Perforated Rung
ITLMH-LHR-600-450-N	600 - 450	Non Perforated Rung
ITLMH-LHR-600-300-N	600 - 300	Non Perforated Rung
ITLMH-LHR-600-150-N	600 - 150	Non Perforated Rung
ITLMH-LHR-450-300-N	450 - 300	Non Perforated Rung
ITLMH-LHR-450-150-N	450 - 150	Non Perforated Rung
ITLMH-LHR-300-150-N	300 - 150	Non Perforated Rung



Cable Ladder - LMH Series



LMH Series-Straight Reducer



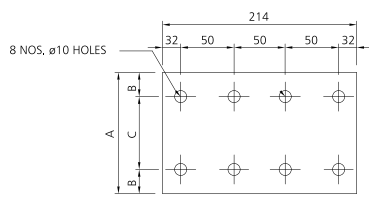
STRAIGHT REDUCER
(SR)

Fittings are available for -P (Perforated Rung).
For instance, **ITLMH-SR-900-750-P**

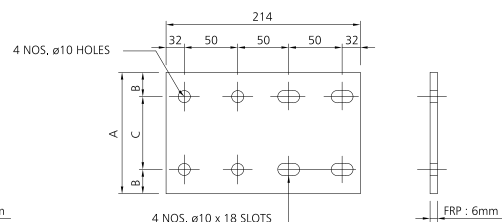
PART NO	WIDTH (mm)	PERFORATION
ITLMH-SR-900-750-N	900 - 750	Non Perforated Rung
ITLMH-SR-900-600-N	900 - 600	Non Perforated Rung
ITLMH-SR-900-450-N	900 - 450	Non Perforated Rung
ITLMH-SR-900-300-N	900 - 300	Non Perforated Rung
ITLMH-SR-900-150-N	900 - 150	Non Perforated Rung
ITLMH-SR-750-600-N	750 - 600	Non Perforated Rung
ITLMH-SR-750-450-N	750 - 450	Non Perforated Rung
ITLMH-SR-750-300-N	750 - 300	Non Perforated Rung
ITLMH-SR-750-150-N	750 - 150	Non Perforated Rung
ITLMH-SR-600-450-N	600 - 450	Non Perforated Rung
ITLMH-SR-600-300-N	600 - 300	Non Perforated Rung
ITLMH-SR-600-150-N	600 - 150	Non Perforated Rung
ITLMH-SR-450-300-N	450 - 300	Non Perforated Rung
ITLMH-SR-450-150-N	450 - 150	Non Perforated Rung
ITLMH-SR-300-150-N	300 - 150	Non Perforated Rung



LMH Series-Splice Plate



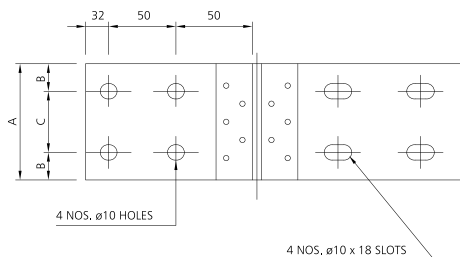
LMH-FIXED SPLICE PLATE (FSP)



LMH-EXPANSION SPLICE PLATE (ESP)

PART NUMBER	ITEM DESCRIPTION
ITLMH-ESP-FRP SET-BN PH M8X25	LMH Cable Ladder FRP Expansion Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

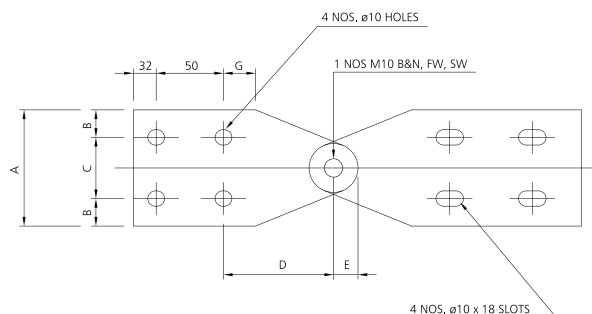
Expansion splice plates are available for SS316 type. For instance **ITLMH-ESP-SS**



HORIZONTAL ADJUSTABLE SPLICE PLATE
(HESP)

PART NUMBER	ITEM DESCRIPTION
ITLMH-HASP-FRP SET-BN PH M8X25	LMH Cable Ladder FRP Horizontal Adjustable Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

Horizontal adjustable splice plates are available for SS316 type.
For instance **ITLMH-HASP-SS**



VERTICAL ADJUSTABLE SPLICE PLATE
(VESP)

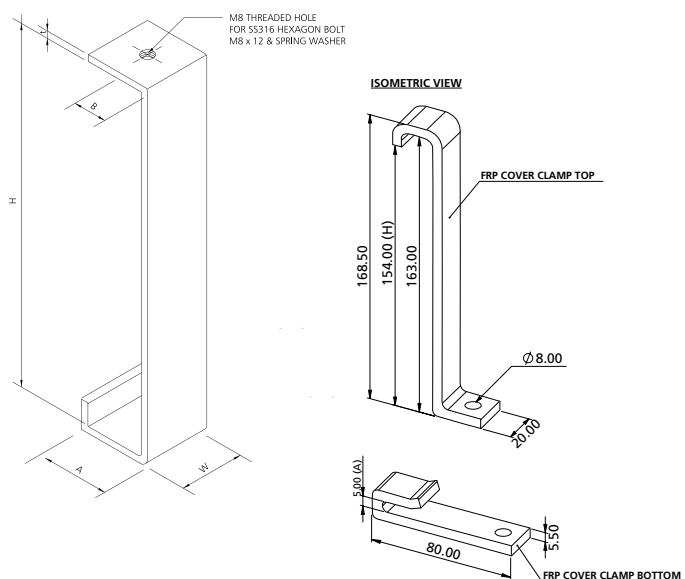
PART NUMBER	ITEM DESCRIPTION
ITLMH-VASP-FRP SET-BN PH M8X25	LMH Cable Ladder FRP Vertical Adjustable Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

Vertical adjustable splice plates are available for SS316 type.
For instance **ITLMH-VASP-SS**



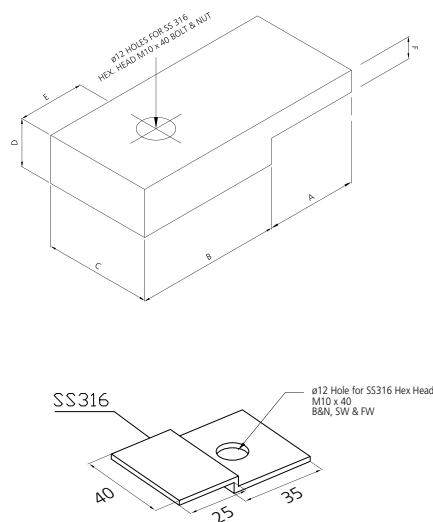
Cable Ladder - LMH Series

LMH Series-Cover Clamp



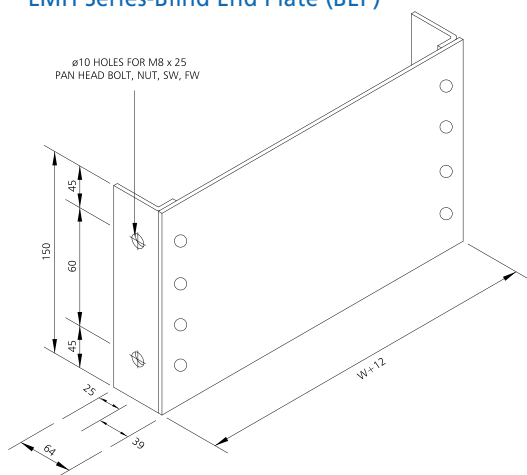
PART NUMBER	ITEM DESCRIPTION
ITLMH-CC-SS SET-BN HH M8X12	LMH Cable Ladder SS316 Cover Clamp SS316 Hex Head M8 x 12 Bolt & SW
ITLMH-CC-FRP SET-BN PH M8X25	LMH Cable Ladder FRP Cover Clamp SS316 Pan Head M8 x 25 B&N, SW & FW

LMH Series-Hold Down Clamp - ITLMH-HDC-FRP & ITLMH-ZHDC-SS



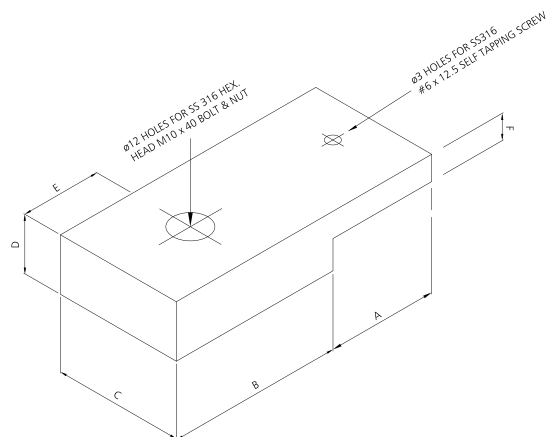
PART NUMBER	ITEM DESCRIPTION
ITLMH-HDC-FRP ITLMH-ZHDC-SS SET-BN HH M10X40	LMH Cable Ladder FRP Hold Down Clamp LMH Cable Ladder SS316 Z Hold Down Clamp SS316 Hex Head M10 x 40 B&N, SW & FW

LMH Series-Blind End Plate (BEP)



PART NUMBER	ITEM DESCRIPTION
ITLMH-BEP-150 SET-BN PH M8X25	LMH Cable Ladder FRP Blind End Plate 150W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLMH-BEP-200 SET-BN PH M8X25	LMH Cable Ladder FRP Blind End Plate 200W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLMH-BEP-300 SET-BN PH M8X25	LMH Cable Ladder FRP Blind End Plate 300W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLMH-BEP-450 SET-BN PH M8X25	LMH Cable Ladder FRP Blind End Plate 450W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLMH-BEP-600 SET-BN PH M8X25	LMH Cable Ladder FRP Blind End Plate 600W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLMH-BEP-750 SET-BN PH M8X25	LMH Cable Ladder FRP Blind End Plate 750W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLMH-BEP-900 SET-BN PH M8X25	LMH Cable Ladder FRP Blind End Plate 900W SS316 Pan Head M8 x 25 B&N, SW & FW

LMH Series-Vertical Fixing Clamp (VFC)



PART NUMBER	ITEM DESCRIPTION
ITLMH-VFC-FRP SET-BN HH M10X40 STS	LMH Cable Ladder FRP Vertical Fixing Clamp SS316 Hex Head M10 x 40 B&N, SW & FW SS316 Self Tapping Screw

Vertical fixing clamps are available for SS316 type. For instance **ITLMH-VFC-SS**



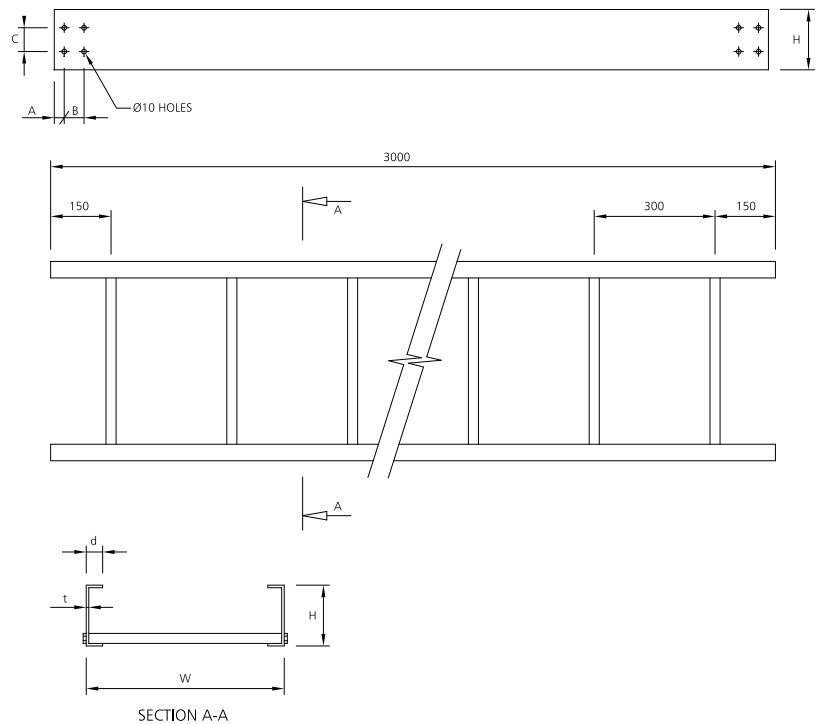
Cable Ladder - LH Series



LH Series-Straight Run

PART NO	WIDTH (mm)	PERFORATION
ITLH-SS-150-N	150	Non Perforated Rung
ITLH-SS-200-N	200	Non Perforated Rung
ITLH-SS-300-N	300	Non Perforated Rung
ITLH-SS-450-N	450	Non Perforated Rung
ITLH-SS-600-N	600	Non Perforated Rung
ITLH-SS-750-N	750	Non Perforated Rung
ITLH-SS-900-N	900	Non Perforated Rung

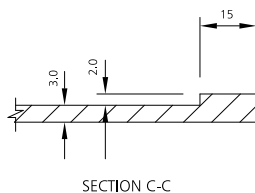
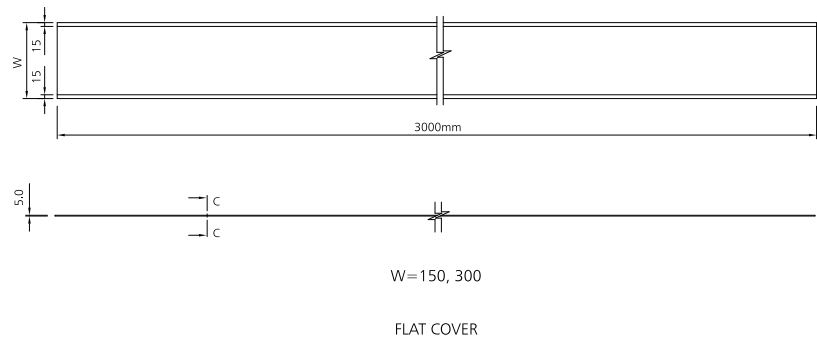
Straight Sections are available for Perforated Rung (-P)
For instance, **ITLH-SS-150-P**



SERIES	H	d	t	A	B	C	REMARKS
LH	152	41	6.0	24	50	60	All values in mm

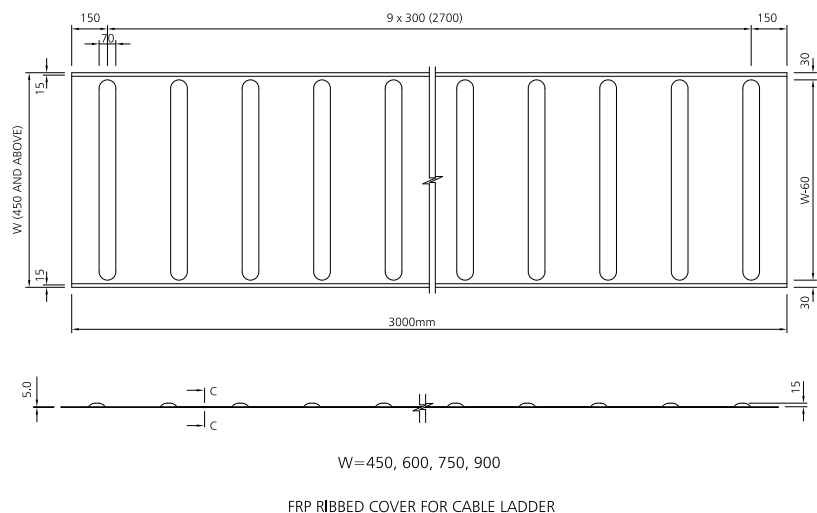


LH Series-Cover



PART NO	WIDTH (mm)	VENTILATION
ITCL-SS-150-C-N	150	Non-Ventilated Cover
ITCL-SS-200-C-N	200	Non-Ventilated Cover
ITCL-SS-300-C-N	300	Non-Ventilated Cover
ITCL-SS-450-C-N	450	Non-Ventilated Cover
ITCL-SS-600-C-N	600	Non-Ventilated Cover
ITCL-SS-750-C-N	750	Non-Ventilated Cover
ITCL-SS-900-C-N	900	Non-Ventilated Cover

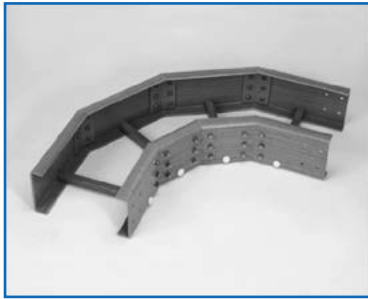
Covers are available for Ventilated (-V) option
For instance, **ITCL-SS-150-C-V**



* Thickness of FRP side rail for LH Series is 6mm unless otherwise specified.

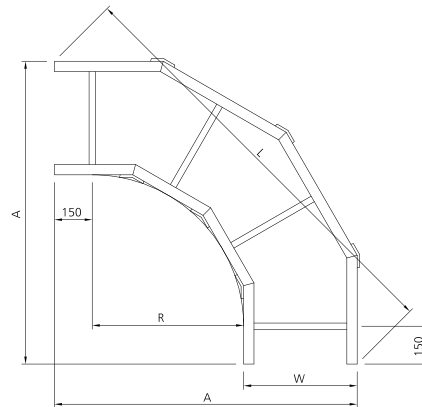


Cable Ladder - LH Series

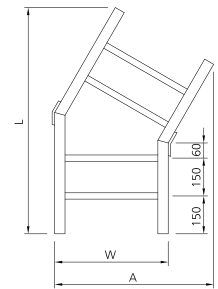


LH Series-Horizontal Bend

Fittings are available for R300, R450, R600, R900
Fittings are available for Perforated Rung (-P)
For instance, **ITLH-HB-90-900R-150-P**



90° HORIZONTAL BEND
(90° HB)



30°/45° HORIZONTAL BEND
(30°/45° HB)

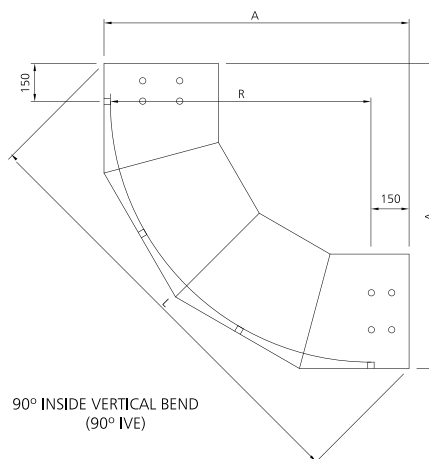
PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLH-HB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLH-HB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLH-HB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLH-HB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLH-HB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLH-HB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLH-HB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLH-HB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLH-HB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLH-HB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLH-HB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLH-HB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLH-HB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLH-HB-60-300R-900-N	60	300	900	Non Perforated Rung

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLH-HB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLH-HB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLH-HB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLH-HB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLH-HB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLH-HB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLH-HB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLH-HB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLH-HB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLH-HB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLH-HB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLH-HB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLH-HB-30-300R-750-N	30	300	700	Non Perforated Rung
ITLH-HB-30-300R-900-N	30	300	900	Non Perforated Rung

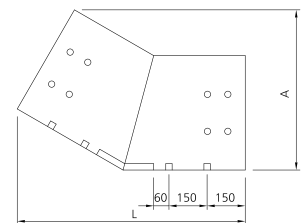


LH Series-Inside Vertical Bend

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLH-IVB-90-900R-150-P**



90° INSIDE VERTICAL BEND
(90° IVE)



45°/30° INSIDE VERTICAL BEND
(45°/30° IVE)

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLH-IVB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLH-IVB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLH-IVB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLH-IVB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLH-IVB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLH-IVB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLH-IVB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLH-IVB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLH-IVB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLH-IVB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLH-IVB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLH-IVB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLH-IVB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLH-IVB-60-300R-900-N	60	300	900	Non Perforated Rung

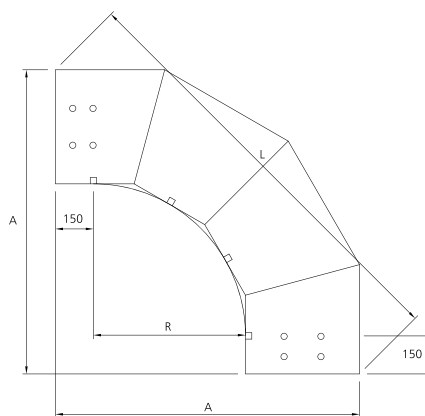
PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLH-IVB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLH-IVB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLH-IVB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLH-IVB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLH-IVB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLH-IVB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLH-IVB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLH-IVB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLH-IVB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLH-IVB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLH-IVB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLH-IVB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLH-IVB-30-300R-750-N	30	300	750	Non Perforated Rung
ITLH-IVB-30-300R-900-N	30	300	900	Non Perforated Rung



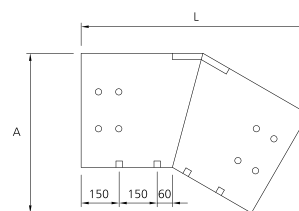
Cable Ladder - LH Series



LH Series-Outside Vertical Bend



90° OUTSIDE VERTICAL BEND
(90° OVE)



30°/45° OUTSIDE VERTICAL BEND
(30°/45° OVE)

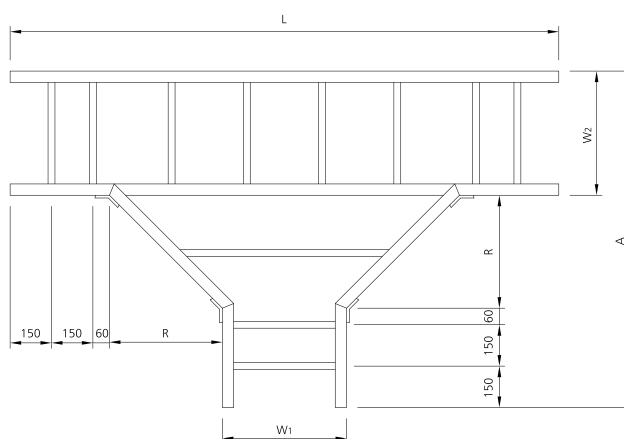
Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLH-OVB-90-900R-150-P**

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLH-OVB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLH-OVB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLH-OVB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLH-OVB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLH-OVB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLH-OVB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLH-OVB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLH-OVB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLH-OVB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLH-OVB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLH-OVB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLH-OVB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLH-OVB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLH-OVB-60-300R-900-N	60	300	900	Non Perforated Rung

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLH-OVB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLH-OVB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLH-OVB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLH-OVB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLH-OVB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLH-OVB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLH-OVB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLH-OVB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLH-OVB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLH-OVB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLH-OVB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLH-OVB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLH-OVB-30-300R-750-N	30	300	700	Non Perforated Rung
ITLH-OVB-30-300R-900-N	30	300	900	Non Perforated Rung



LH Series-Horizontal Tee



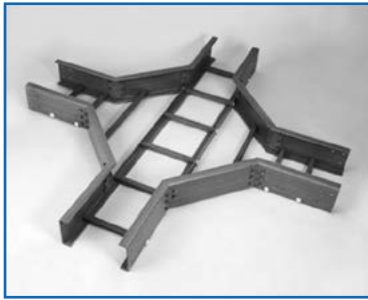
HORIZONTAL EQUAL TEE
(HT)

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLH-HT-900R-150-P**

PART NO	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLH-HT-300R-150-N	300	150	Non Perforated Rung
ITLH-HT-300R-200-N	300	200	Non Perforated Rung
ITLH-HT-300R-300-N	300	300	Non Perforated Rung
ITLH-HT-300R-450-N	300	450	Non Perforated Rung
ITLH-HT-300R-600-N	300	600	Non Perforated Rung
ITLH-HT-300R-750-N	300	750	Non Perforated Rung
ITLH-HT-300R-900-N	300	900	Non Perforated Rung



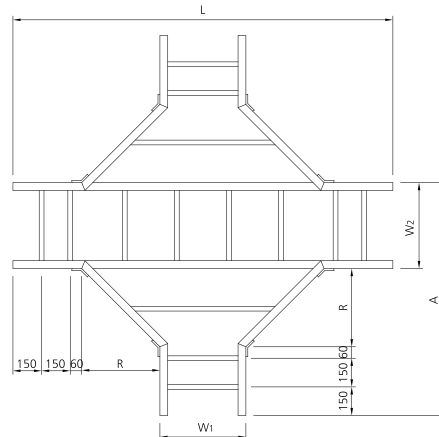
Cable Ladder - LH Series



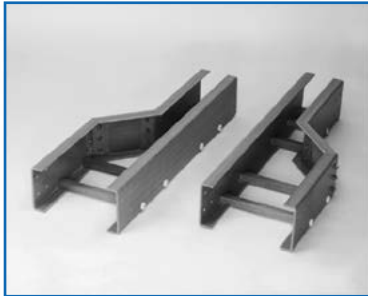
LH Series-Horizontal Cross

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLH-HEC-900R-150-P**

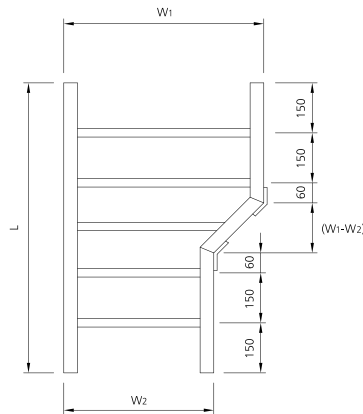
PART NO	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLH-HEC-300R-150-N	300	150	Non Perforated Rung
ITLH-HEC-300R-200-N	300	200	Non Perforated Rung
ITLH-HEC-300R-300-N	300	300	Non Perforated Rung
ITLH-HEC-300R-450-N	300	450	Non Perforated Rung
ITLH-HEC-300R-600-N	300	600	Non Perforated Rung
ITLH-HEC-300R-750-N	300	750	Non Perforated Rung
ITLH-HEC-300R-900-N	300	900	Non Perforated Rung



HORIZONTAL EQUAL CROSS (HC)



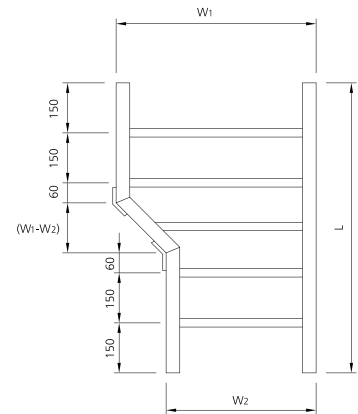
LH Series-Left/Right Hand Reducer



RIGHT HAND REDUCER (RHR)

Fittings are available for -P (Perforated Rung).
For instance, **ITLH-RHR-900-750-P**

PART NO	WIDTH (mm)	PERFORATION
ITLH-RHR-900-750-N	900 - 750	Non Perforated Rung
ITLH-RHR-900-600-N	900 - 600	Non Perforated Rung
ITLH-RHR-900-450-N	900 - 450	Non Perforated Rung
ITLH-RHR-900-300-N	900 - 300	Non Perforated Rung
ITLH-RHR-900-150-N	900 - 150	Non Perforated Rung
ITLH-RHR-750-600-N	750 - 600	Non Perforated Rung
ITLH-RHR-750-450-N	750 - 450	Non Perforated Rung
ITLH-RHR-750-300-N	750 - 300	Non Perforated Rung
ITLH-RHR-750-150-N	750 - 150	Non Perforated Rung
ITLH-RHR-600-450-N	600 - 450	Non Perforated Rung
ITLH-RHR-600-300-N	600 - 300	Non Perforated Rung
ITLH-RHR-600-150-N	600 - 150	Non Perforated Rung
ITLH-RHR-450-300-N	450 - 300	Non Perforated Rung
ITLH-RHR-450-150-N	450 - 150	Non Perforated Rung
ITLH-RHR-300-150-N	300 - 150	Non Perforated Rung



LEFT HAND REDUCER (LHR)

Fittings are available for -P (Perforated Rung).
For instance, **ITLH-LHR-900-750-P**

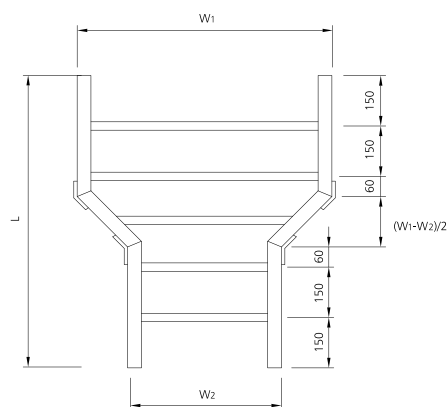
PART NO	WIDTH (mm)	PERFORATION
ITLH-LHR-900-750-N	900 - 750	Non Perforated Rung
ITLH-LHR-900-600-N	900 - 600	Non Perforated Rung
ITLH-LHR-900-450-N	900 - 450	Non Perforated Rung
ITLH-LHR-900-300-N	900 - 300	Non Perforated Rung
ITLH-LHR-900-150-N	900 - 150	Non Perforated Rung
ITLH-LHR-750-600-N	750 - 600	Non Perforated Rung
ITLH-LHR-750-450-N	750 - 450	Non Perforated Rung
ITLH-LHR-750-300-N	750 - 300	Non Perforated Rung
ITLH-LHR-750-150-N	750 - 150	Non Perforated Rung
ITLH-LHR-600-450-N	600 - 450	Non Perforated Rung
ITLH-LHR-600-300-N	600 - 300	Non Perforated Rung
ITLH-LHR-600-150-N	600 - 150	Non Perforated Rung
ITLH-LHR-450-300-N	450 - 300	Non Perforated Rung
ITLH-LHR-450-150-N	450 - 150	Non Perforated Rung
ITLH-LHR-300-150-N	300 - 150	Non Perforated Rung



Cable Ladder - LH Series



LH Series-Straight Reducer



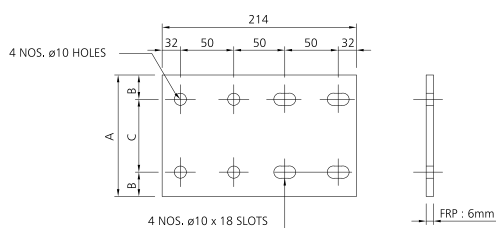
STRAIGHT REDUCER (SR)

Fittings are available for -P (Perforated Rung).
For instance, **ITLH-SR-900-750-P**

PART NO	WIDTH (mm)	PERFORATION
ITLH-SR-900-750-N	900 - 750	Non Perforated Rung
ITLH-SR-900-600-N	900 - 600	Non Perforated Rung
ITLH-SR-900-450-N	900 - 450	Non Perforated Rung
ITLH-SR-900-300-N	900 - 300	Non Perforated Rung
ITLH-SR-900-150-N	900 - 150	Non Perforated Rung
ITLH-SR-750-600-N	750 - 600	Non Perforated Rung
ITLH-SR-750-450-N	750 - 450	Non Perforated Rung
ITLH-SR-750-300-N	750 - 300	Non Perforated Rung
ITLH-SR-750-150-N	750 - 150	Non Perforated Rung
ITLH-SR-600-450-N	600 - 450	Non Perforated Rung
ITLH-SR-600-300-N	600 - 300	Non Perforated Rung
ITLH-SR-600-150-N	600 - 150	Non Perforated Rung
ITLH-SR-450-300-N	450 - 300	Non Perforated Rung
ITLH-SR-450-150-N	450 - 150	Non Perforated Rung
ITLH-SR-300-150-N	300 - 150	Non Perforated Rung



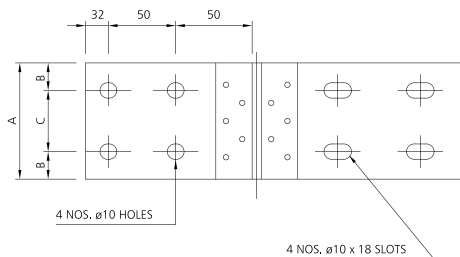
LH Series-Splice Plate



LH-EXPANSION SPLICE PLATE (ESP)

PART NUMBER	ITEM DESCRIPTION
ITLH-ESP-FRP SET-BN PH M8X25	LH Cable Ladder FRP Expansion Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

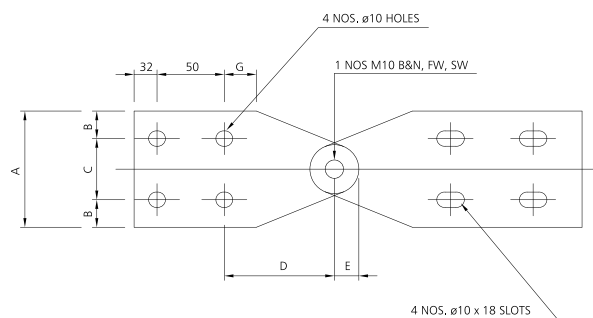
Expansion splice plates are available for SS316 type.
For instance **ITLH-ESP-SS**



HORIZONTAL ADJUSTABLE SPLICE PLATE (HESP)

PART NUMBER	ITEM DESCRIPTION
ITLH-HASP-FRP SET-BN PH M8X25	LH Cable Ladder FRP Horizontal Adjustable Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

Horizontal adjustable splice plates are available for SS316 type.
For instance **ITLH-HASP-SS**



VERTICAL ADJUSTABLE SPLICE PLATE (VESP)

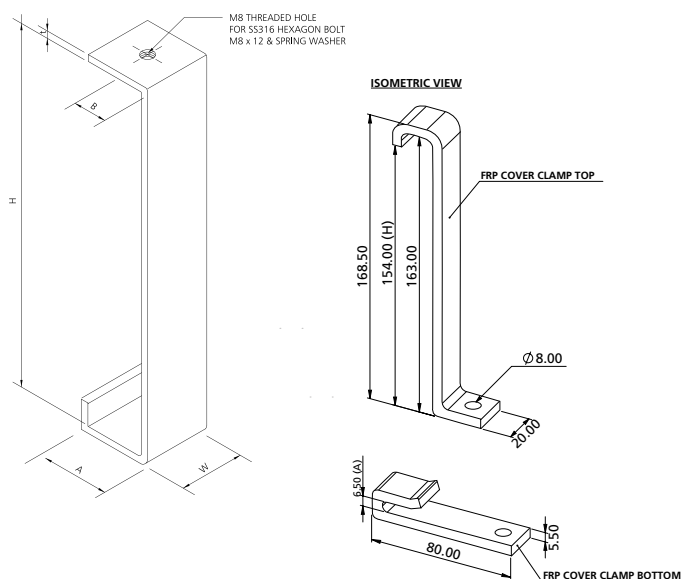
PART NUMBER	ITEM DESCRIPTION
ITLH-VASP-FRP SET-BN PH M8X25	LH Cable Ladder FRP Vertical Adjustable Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

Vertical adjustable splice plates are available for SS316 type.
For instance **ITLH-VASP-SS**



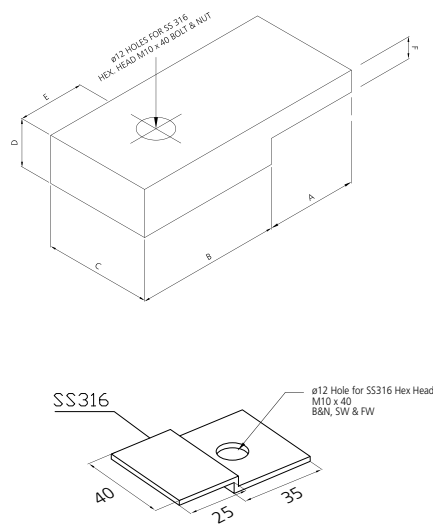
Cable Ladder - LH Series

LH Series-Cover Clamp



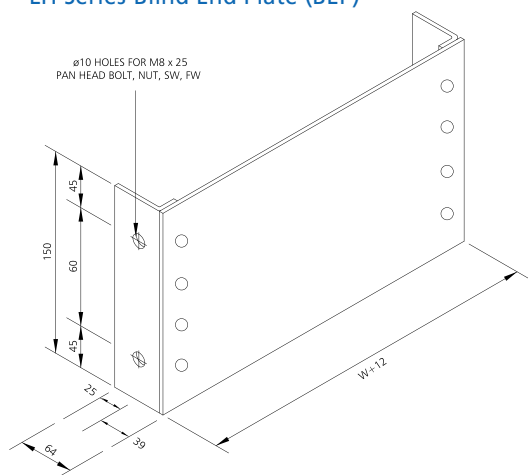
PART NUMBER	ITEM DESCRIPTION
ITLH-CC-SS SET-BN HH M8X12	LH Cable Ladder SS316 Cover Clamp SS316 Hex Head M8 x 12 Bolt & SW
ITLH-CC-FRP SET-BN PH M8X25	LH Cable Ladder FRP Cover Clamp SS316 Pan Head M8 x 25 B&N, SW & FW

LH Series-Hold Down Clamp - ITLH-HDC-FRP & ITLH-ZHDC-SS



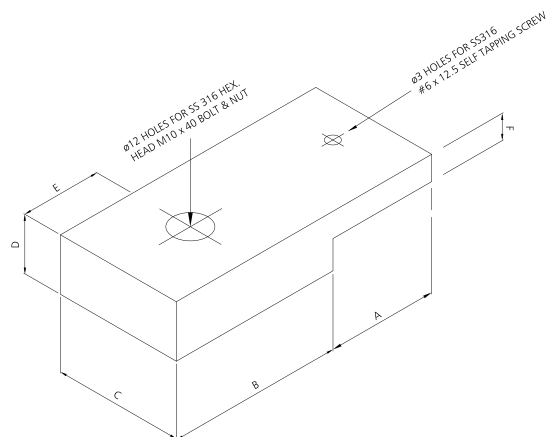
PART NUMBER	ITEM DESCRIPTION
ITLH-HDC-FRP ITLH-ZHDC-SS SET-BN HH M10X40	LH Cable Ladder FRP Hold Down Clamp LH Cable Ladder SS316 Z Hold Down Clamp SS316 Hex Head M10 x 40 B&N, SW & FW

LH Series-Blind End Plate (BEP)



PART NUMBER	ITEM DESCRIPTION
ITLH-BEP-150 SET-BN PH M8X25	LH Cable Ladder FRP Blind End Plate 150W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLH-BEP-200 SET-BN PH M8X25	LH Cable Ladder FRP Blind End Plate 200W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLH-BEP-300 SET-BN PH M8X25	LH Cable Ladder FRP Blind End Plate 300W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLH-BEP-450 SET-BN PH M8X25	LH Cable Ladder FRP Blind End Plate 450W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLH-BEP-600 SET-BN PH M8X25	LH Cable Ladder FRP Blind End Plate 600W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLH-BEP-750 SET-BN PH M8X25	LH Cable Ladder FRP Blind End Plate 750W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLH-BEP-900 SET-BN PH M8X25	LH Cable Ladder FRP Blind End Plate 900W SS316 Pan Head M8 x 25 B&N, SW & FW

LH Series-Vertical Fixing Clamp (VFC)



PART NUMBER	ITEM DESCRIPTION
ITLH-VFC-FRP SET-BN HH M10X40 STS	LH Cable Ladder FRP Vertical Fixing Clamp SS316 Hex Head M10 x 40 B&N, SW & FW SS316 Self Tapping Screw

Vertical fixing clamps are available for SS316 type. For instance **ITLH-VFC-SS**



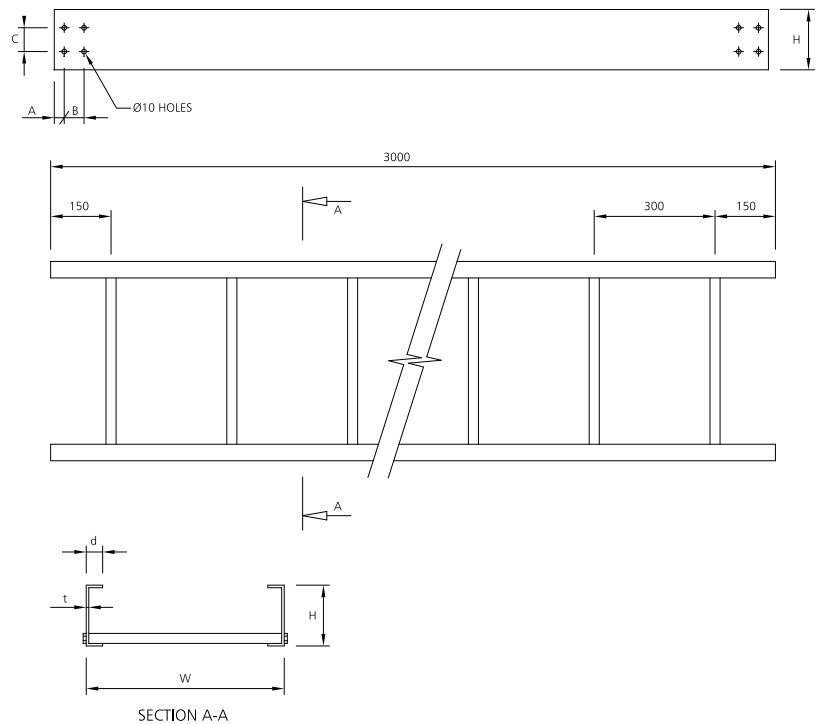
Cable Ladder - LSH Series



LSH Series-Straight Run

PART NO	WIDTH (mm)	PERFORATION
ITLSH-SS-150-N	150	Non Perforated Rung
ITLSH-SS-200-N	200	Non Perforated Rung
ITLSH-SS-300-N	300	Non Perforated Rung
ITLSH-SS-450-N	450	Non Perforated Rung
ITLSH-SS-600-N	600	Non Perforated Rung
ITLSH-SS-750-N	750	Non Perforated Rung
ITLSH-SS-900-N	900	Non Perforated Rung

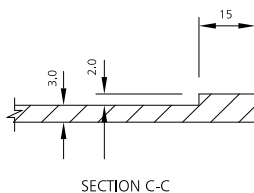
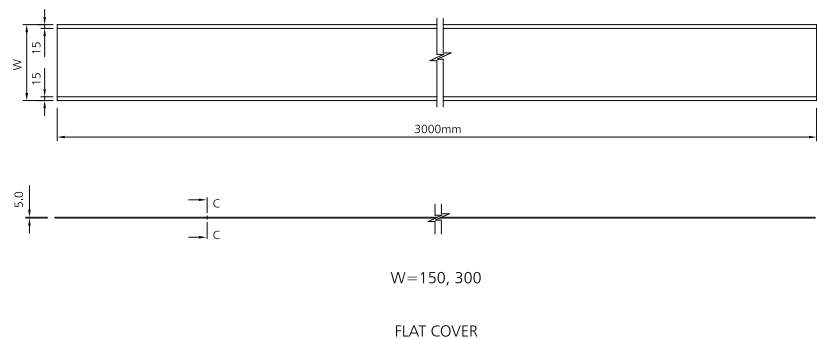
Straight Sections are available for Perforated Rung (-P)
For instance, **ITLSH-SS-150-P**



SERIES	H	d	t	A	B	C	REMARKS
LSH	152	41	8.0	24	50	60	All values in mm

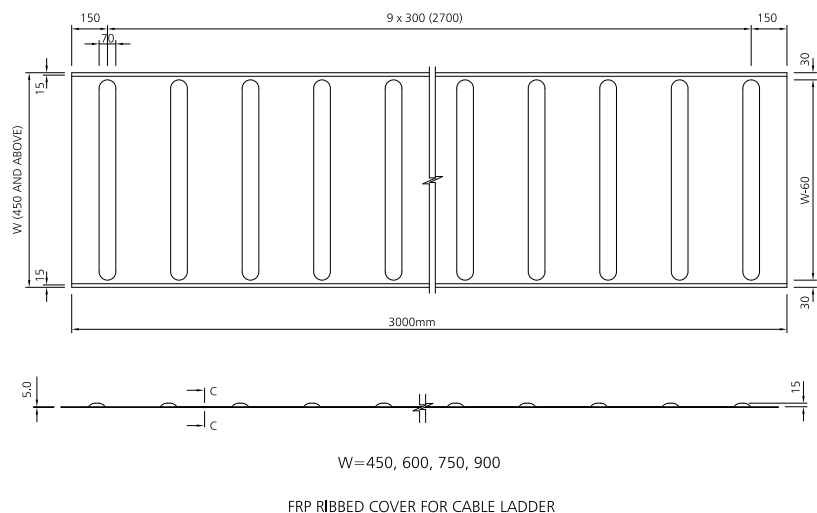


LSH Series-Cover



PART NO	WIDTH (mm)	VENTILATION
ITCL-SS-150-C-N	150	Non-Ventilated Cover
ITCL-SS-200-C-N	200	Non-Ventilated Cover
ITCL-SS-300-C-N	300	Non-Ventilated Cover
ITCL-SS-450-C-N	450	Non-Ventilated Cover
ITCL-SS-600-C-N	600	Non-Ventilated Cover
ITCL-SS-750-C-N	750	Non-Ventilated Cover
ITCL-SS-900-C-N	900	Non-Ventilated Cover

Covers are available for Ventilated (-V) option
For instance, **ITCL-SS-150-C-V**



* Thickness of FRP side rail for LSH Series is 6mm unless otherwise specified.

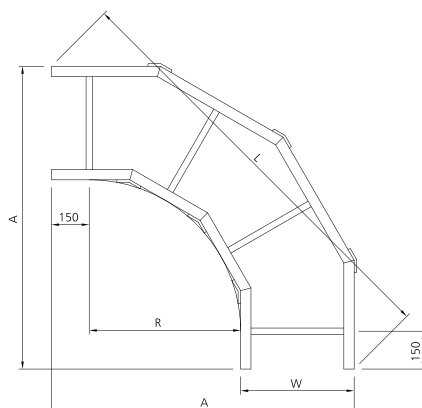


Cable Ladder - LSH Series

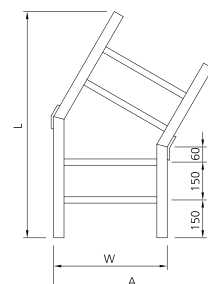


LSH Series-Horizontal Bend

Fittings are available for R300, R450, R600, R900
Fittings are available for Perforated Rung (-P)
For instance, **ITLSH-HB-90-900R-150-P**



90° HORIZONTAL BEND
(90° HB)



30°/45° HORIZONTAL BEND
(30°/45° HB)

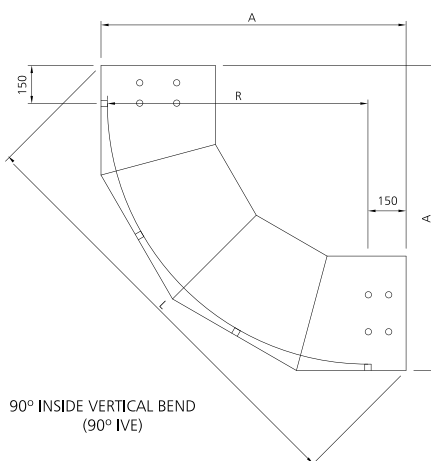
PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLSH-HB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLSH-HB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLSH-HB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLSH-HB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLSH-HB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLSH-HB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLSH-HB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLSH-HB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLSH-HB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLSH-HB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLSH-HB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLSH-HB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLSH-HB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLSH-HB-60-300R-900-N	60	300	900	Non Perforated Rung

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLSH-HB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLSH-HB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLSH-HB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLSH-HB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLSH-HB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLSH-HB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLSH-HB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLSH-HB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLSH-HB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLSH-HB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLSH-HB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLSH-HB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLSH-HB-30-300R-750-N	30	300	700	Non Perforated Rung
ITLSH-HB-30-300R-900-N	30	300	900	Non Perforated Rung

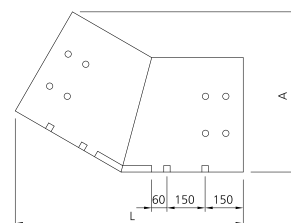


LSH Series-Inside Vertical Bend

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLSH-IVB-90-900R-150-P**



90° INSIDE VERTICAL BEND
(90° IVE)



45°/30° INSIDE VERTICAL BEND
(45°/30° IVE)

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLSH-IVB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLSH-IVB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLSH-IVB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLSH-IVB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLSH-IVB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLSH-IVB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLSH-IVB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLSH-IVB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLSH-IVB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLSH-IVB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLSH-IVB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLSH-IVB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLSH-IVB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLSH-IVB-60-300R-900-N	60	300	900	Non Perforated Rung

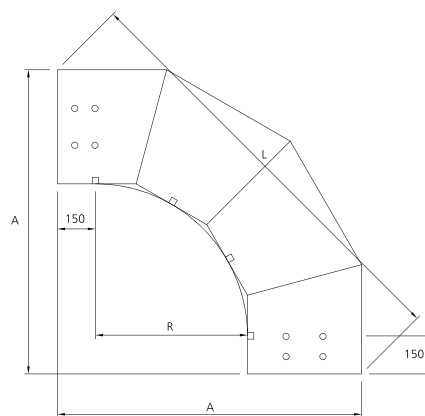
PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLSH-IVB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLSH-IVB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLSH-IVB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLSH-IVB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLSH-IVB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLSH-IVB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLSH-IVB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLSH-IVB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLSH-IVB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLSH-IVB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLSH-IVB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLSH-IVB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLSH-IVB-30-300R-750-N	30	300	750	Non Perforated Rung
ITLSH-IVB-30-300R-900-N	30	300	900	Non Perforated Rung



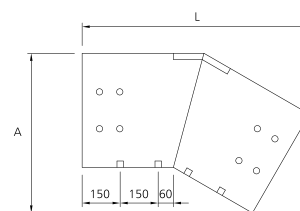
Cable Ladder - LSH Series



LSH Series-Outside Vertical Bend



90° OUTSIDE VERTICAL BEND
(90° OVE)



30°/45° OUTSIDE VERTICAL BEND
(30°/45° OVE)

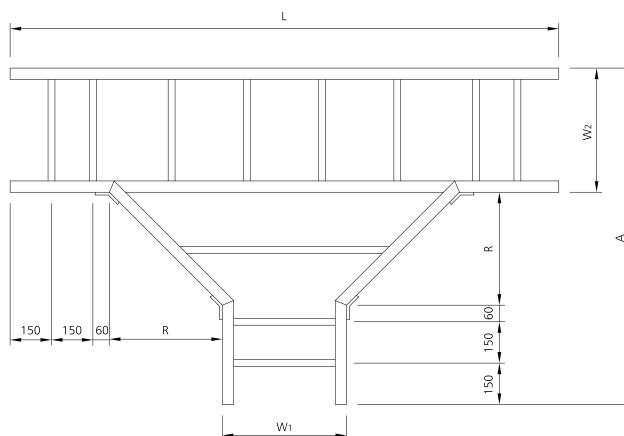
Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLSH-OVB-90-900R-150-P**

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLSH-OVB-90-300R-150-N	90	300	150	Non Perforated Rung
ITLSH-OVB-90-300R-200-N	90	300	200	Non Perforated Rung
ITLSH-OVB-90-300R-300-N	90	300	300	Non Perforated Rung
ITLSH-OVB-90-300R-450-N	90	300	450	Non Perforated Rung
ITLSH-OVB-90-300R-600-N	90	300	600	Non Perforated Rung
ITLSH-OVB-90-300R-750-N	90	300	750	Non Perforated Rung
ITLSH-OVB-90-300R-900-N	90	300	900	Non Perforated Rung
ITLSH-OVB-60-300R-150-N	60	300	150	Non Perforated Rung
ITLSH-OVB-60-300R-200-N	60	300	200	Non Perforated Rung
ITLSH-OVB-60-300R-300-N	60	300	300	Non Perforated Rung
ITLSH-OVB-60-300R-450-N	60	300	450	Non Perforated Rung
ITLSH-OVB-60-300R-600-N	60	300	600	Non Perforated Rung
ITLSH-OVB-60-300R-750-N	60	300	750	Non Perforated Rung
ITLSH-OVB-60-300R-900-N	60	300	900	Non Perforated Rung

PART NO	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLSH-OVB-45-300R-150-N	45	300	150	Non Perforated Rung
ITLSH-OVB-45-300R-200-N	45	300	200	Non Perforated Rung
ITLSH-OVB-45-300R-300-N	45	300	300	Non Perforated Rung
ITLSH-OVB-45-300R-450-N	45	300	450	Non Perforated Rung
ITLSH-OVB-45-300R-600-N	45	300	600	Non Perforated Rung
ITLSH-OVB-45-300R-750-N	45	300	750	Non Perforated Rung
ITLSH-OVB-45-300R-900-N	45	300	900	Non Perforated Rung
ITLSH-OVB-30-300R-150-N	30	300	150	Non Perforated Rung
ITLSH-OVB-30-300R-200-N	30	300	200	Non Perforated Rung
ITLSH-OVB-30-300R-300-N	30	300	300	Non Perforated Rung
ITLSH-OVB-30-300R-450-N	30	300	450	Non Perforated Rung
ITLSH-OVB-30-300R-600-N	30	300	600	Non Perforated Rung
ITLSH-OVB-30-300R-750-N	30	300	700	Non Perforated Rung
ITLSH-OVB-30-300R-900-N	30	300	900	Non Perforated Rung



LSH Series-Horizontal Tee



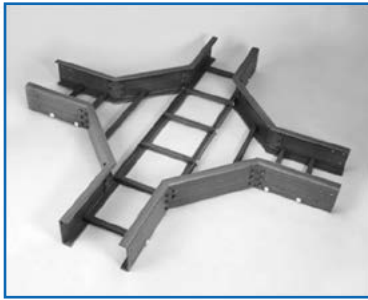
HORIZONTAL EQUAL TEE
(HT)

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLH-HT-900R-150-P**

PART NO	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLSH-HT-300R-150-N	300	150	Non Perforated Rung
ITLSH-HT-300R-200-N	300	200	Non Perforated Rung
ITLSH-HT-300R-300-N	300	300	Non Perforated Rung
ITLSH-HT-300R-450-N	300	450	Non Perforated Rung
ITLSH-HT-300R-600-N	300	600	Non Perforated Rung
ITLSH-HT-300R-750-N	300	750	Non Perforated Rung
ITLSH-HT-300R-900-N	300	900	Non Perforated Rung



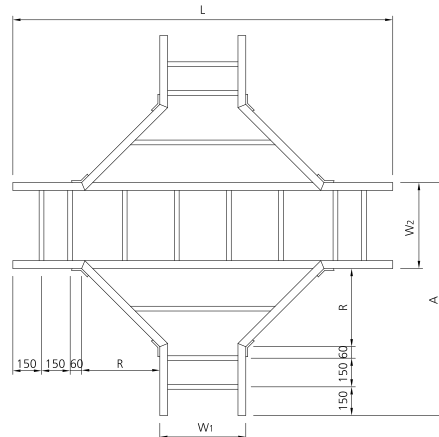
Cable Ladder - LSH Series



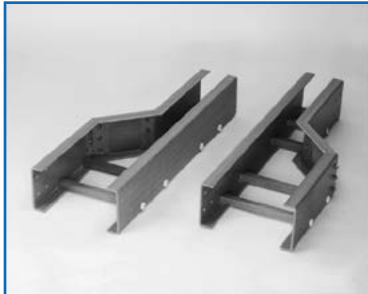
LSH Series-Horizontal Cross

Fittings are available for R300, R450, R600, R900
Fittings are available for -P (Perforated Rung).
For instance, **ITLSH-HEC-900R-150-P**

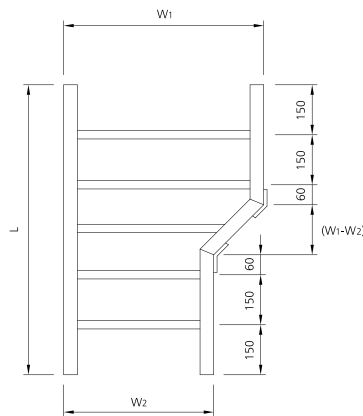
PART NO	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITLSH-HEC-300R-150-N	300	150	Non Perforated Rung
ITLSH-HEC-300R-200-N	300	200	Non Perforated Rung
ITLSH-HEC-300R-300-N	300	300	Non Perforated Rung
ITLSH-HEC-300R-450-N	300	450	Non Perforated Rung
ITLSH-HEC-300R-600-N	300	600	Non Perforated Rung
ITLSH-HEC-300R-750-N	300	750	Non Perforated Rung
ITLSH-HEC-300R-900-N	300	900	Non Perforated Rung



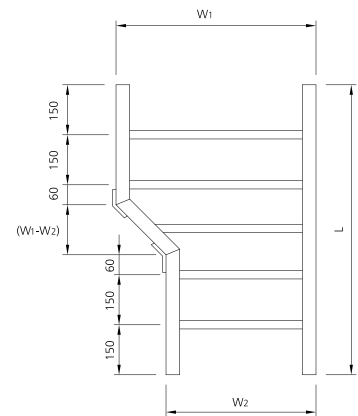
HORIZONTAL EQUAL CROSS
(HC)



LSH Series-Left/Right
Hand Reducer



RIGHT HAND REDUCER
(RHR)



LEFT HAND REDUCER
(LHR)

Fittings are available for -P (Perforated Rung).
For instance, **ITLSH-RHR-900-750-P**

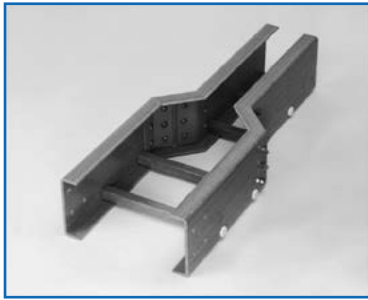
PART NO	WIDTH (mm)	PERFORATION
ITLSH-RHR-900-750-N	900 - 750	Non Perforated Rung
ITLSH-RHR-900-600-N	900 - 600	Non Perforated Rung
ITLSH-RHR-900-450-N	900 - 450	Non Perforated Rung
ITLSH-RHR-900-300-N	900 - 300	Non Perforated Rung
ITLSH-RHR-900-150-N	900 - 150	Non Perforated Rung
ITLSH-RHR-750-600-N	750 - 600	Non Perforated Rung
ITLSH-RHR-750-450-N	750 - 450	Non Perforated Rung
ITLSH-RHR-750-300-N	750 - 300	Non Perforated Rung
ITLSH-RHR-750-150-N	750 - 150	Non Perforated Rung
ITLSH-RHR-600-450-N	600 - 450	Non Perforated Rung
ITLSH-RHR-600-300-N	600 - 300	Non Perforated Rung
ITLSH-RHR-600-150-N	600 - 150	Non Perforated Rung
ITLSH-RHR-450-300-N	450 - 300	Non Perforated Rung
ITLSH-RHR-450-150-N	450 - 150	Non Perforated Rung
ITLSH-RHR-300-150-N	300 - 150	Non Perforated Rung

Fittings are available for -P (Perforated Rung).
For instance, **ITLSH-LHR-900-750-P**

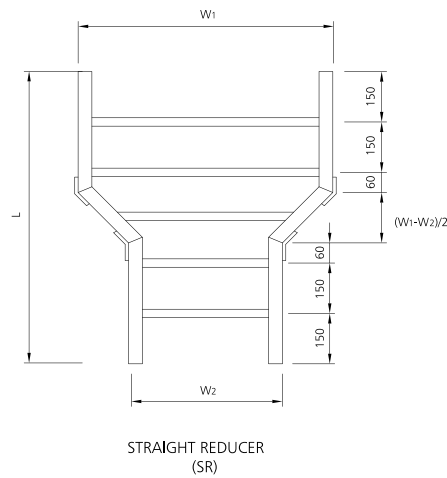
PART NO	WIDTH (mm)	PERFORATION
ITLSH-LHR-900-750-N	900 - 750	Non Perforated Rung
ITLSH-LHR-900-600-N	900 - 600	Non Perforated Rung
ITLSH-LHR-900-450-N	900 - 450	Non Perforated Rung
ITLSH-LHR-900-300-N	900 - 300	Non Perforated Rung
ITLSH-LHR-900-150-N	900 - 150	Non Perforated Rung
ITLSH-LHR-750-600-N	750 - 600	Non Perforated Rung
ITLSH-LHR-750-450-N	750 - 450	Non Perforated Rung
ITLSH-LHR-750-300-N	750 - 300	Non Perforated Rung
ITLSH-LHR-750-150-N	750 - 150	Non Perforated Rung
ITLSH-LHR-600-450-N	600 - 450	Non Perforated Rung
ITLSH-LHR-600-300-N	600 - 300	Non Perforated Rung
ITLSH-LHR-600-150-N	600 - 150	Non Perforated Rung
ITLSH-LHR-450-300-N	450 - 300	Non Perforated Rung
ITLSH-LHR-450-150-N	450 - 150	Non Perforated Rung
ITLSH-LHR-300-150-N	300 - 150	Non Perforated Rung



Cable Ladder - LSH Series



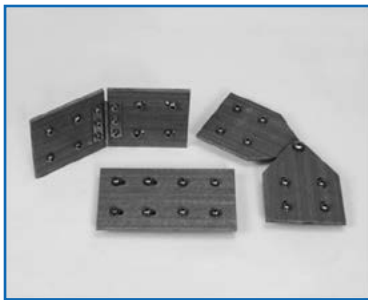
LSH Series-Straight Reducer



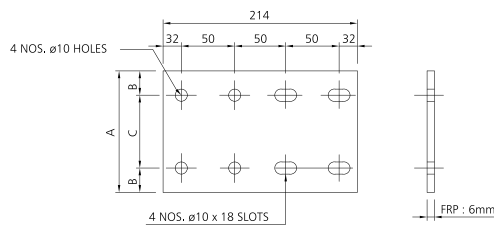
STRAIGHT REDUCER (SR)

Fittings are available for -P (Perforated Rung).
For instance, **ITLSH-SR-900-750-P**

PART NO	WIDTH (mm)	PERFORATION
ITLSH-SR-900-750-N	900 - 750	Non Perforated Rung
ITLSH-SR-900-600-N	900 - 600	Non Perforated Rung
ITLSH-SR-900-450-N	900 - 450	Non Perforated Rung
ITLSH-SR-900-300-N	900 - 300	Non Perforated Rung
ITLSH-SR-900-150-N	900 - 150	Non Perforated Rung
ITLSH-SR-750-600-N	750 - 600	Non Perforated Rung
ITLSH-SR-750-450-N	750 - 450	Non Perforated Rung
ITLSH-SR-750-300-N	750 - 300	Non Perforated Rung
ITLSH-SR-750-150-N	750 - 150	Non Perforated Rung
ITLSH-SR-600-450-N	600 - 450	Non Perforated Rung
ITLSH-SR-600-300-N	600 - 300	Non Perforated Rung
ITLSH-SR-600-150-N	600 - 150	Non Perforated Rung
ITLSH-SR-450-300-N	450 - 300	Non Perforated Rung
ITLSH-SR-450-150-N	450 - 150	Non Perforated Rung
ITLSH-SR-300-150-N	300 - 150	Non Perforated Rung



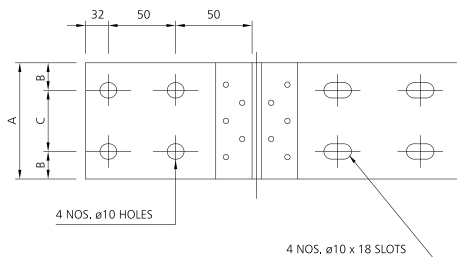
LSH Series-Splice Plate



LH-EXPANSION SPLICE PLATE (ESP)

PART NUMBER	ITEM DESCRIPTION
ITLSH-ESP-FRP SET-BN PH M8X25	LSH Cable Ladder FRP Expansion Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

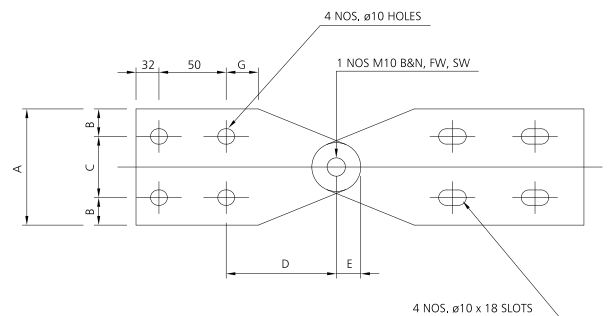
Expansion splice plates are available for SS316 type.
For instance **ITLSH-ESP-SS**



HORIZONTAL ADJUSTABLE SPLICE PLATE (HESP)

PART NUMBER	ITEM DESCRIPTION
ITLSH-HASP-FRP SET-BN PH M8X25	LSH Cable Ladder FRP Horizontal Adjustable Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

Horizontal adjustable splice plates are available for SS316 type.
For instance **ITLSH-HASP-SS**



VERTICAL ADJUSTABLE SPLICE PLATE (VESP)

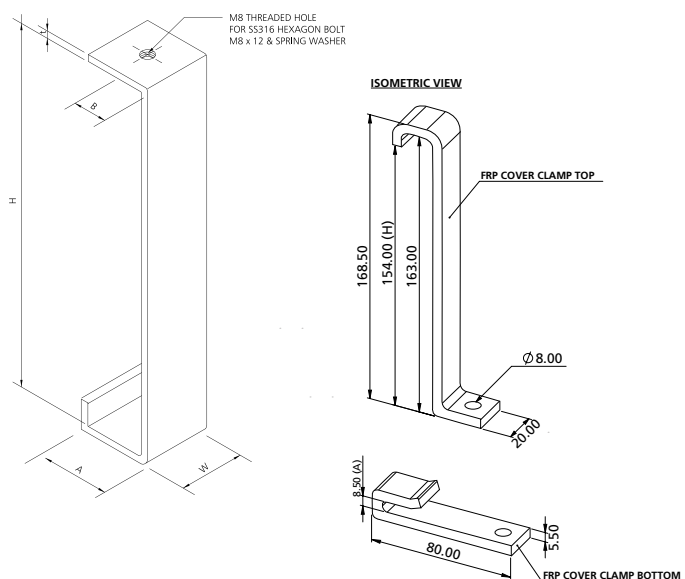
PART NUMBER	ITEM DESCRIPTION
ITLSH-VASP-FRP SET-BN PH M8X25	LSH Cable Ladder FRP Vertical Adjustable Splice Plate SS316 Pan Head M8 x 25 B&N, SW & FW

Vertical adjustable splice plates are available for SS316 type.
For instance **ITLSH-VASP-SS**



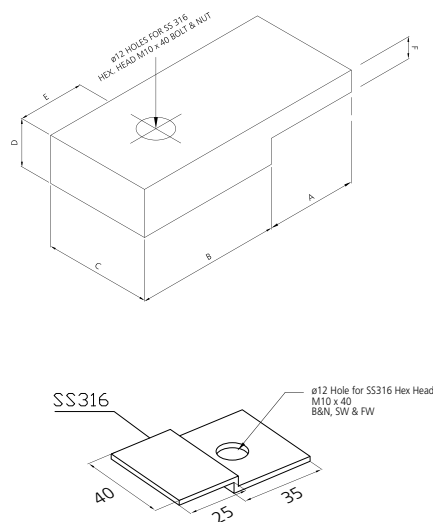
Cable Ladder - LSH Series

LSH Series-Cover Clamp



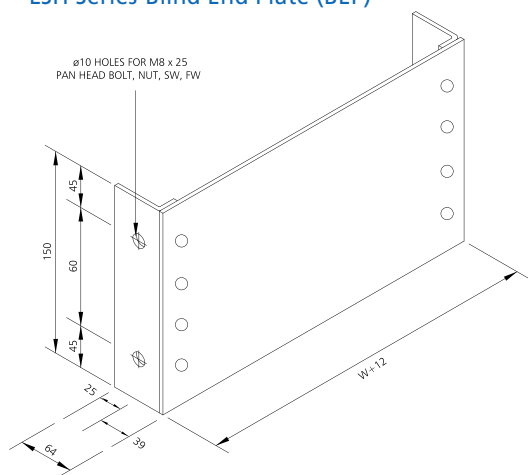
PART NUMBER	ITEM DESCRIPTION
ITLSH-CC-SS SET-BN HH M8X12	LSH Cable Ladder SS316 Cover Clamp SS316 Hex Head M8 x 12 Bolt & SW
ITLSH-CC-FRP SET-BN PH M8X25	LSH Cable Ladder FRP Cover Clamp SS316 Pan Head M8 x 25 B&N, SW & FW

LSH Series-Hold Down Clamp - ITLSH-HDC-FRP & ITLSH-ZHDC-SS



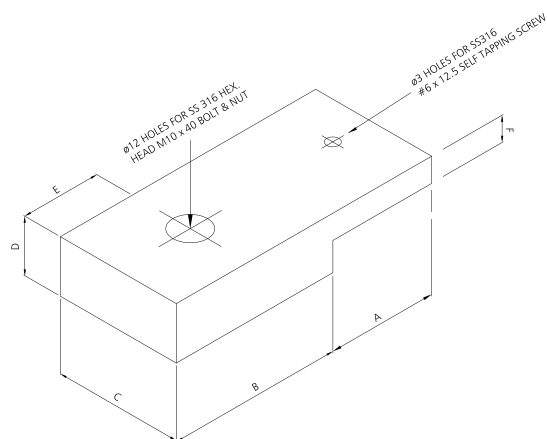
PART NUMBER	ITEM DESCRIPTION
ITLSH-HDC-FRP ITLSH-ZHDC-SS SET-BN HH M10X40	LSH Cable Ladder FRP Hold Down Clamp LSH Cable Ladder SS316 Z Hold Down Clamp SS316 Hex Head M10 x 40 B&N, SW & FW

LSH Series-Blind End Plate (BEP)



PART NUMBER	ITEM DESCRIPTION
ITLSH-BEP-150 SET-BN PH M8X25	LSH Cable Ladder FRP Blind End Plate 150W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLSH-BEP-200 SET-BN PH M8X25	LSH Cable Ladder FRP Blind End Plate 200W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLSH-BEP-300 SET-BN PH M8X25	LSH Cable Ladder FRP Blind End Plate 300W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLSH-BEP-450 SET-BN PH M8X25	LSH Cable Ladder FRP Blind End Plate 450W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLSH-BEP-600 SET-BN PH M8X25	LSH Cable Ladder FRP Blind End Plate 600W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLSH-BEP-750 SET-BN PH M8X25	LSH Cable Ladder FRP Blind End Plate 750W SS316 Pan Head M8 x 25 B&N, SW & FW
ITLSH-BEP-900 SET-BN PH M8X25	LSH Cable Ladder FRP Blind End Plate 900W SS316 Pan Head M8 x 25 B&N, SW & FW

LSH Series-Vertical Fixing Clamp (VFC)

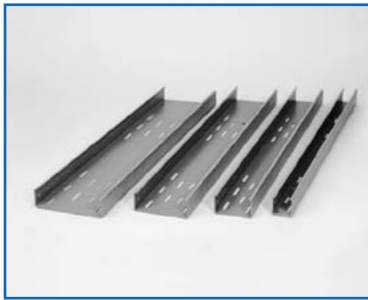


PART NUMBER	ITEM DESCRIPTION
ITLSH-VFC-FRP SET-BN HH M10X40 STS	LSH Cable Ladder FRP Vertical Fixing Clamp SS316 Hex Head M10 x 40 B&N, SW & FW SS316 Self Tapping Screw

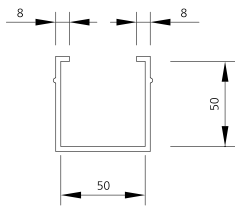
Vertical fixing clamps are available for SS316 type. For instance **ITLSH-VFC-SS**



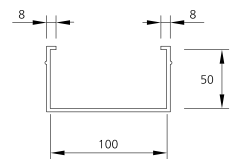
Cable Tray



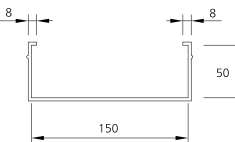
Cable Tray Pultruded Type,
"C" Shape



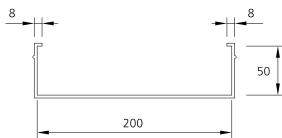
SECTION A-A



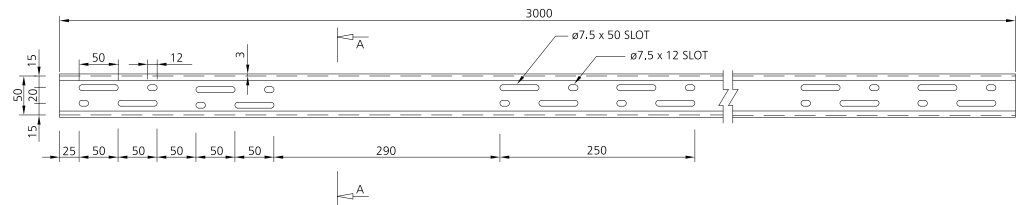
SECTION A-A



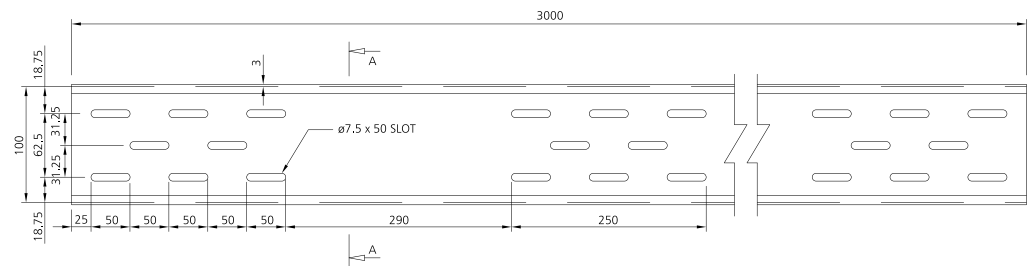
SECTION A-A



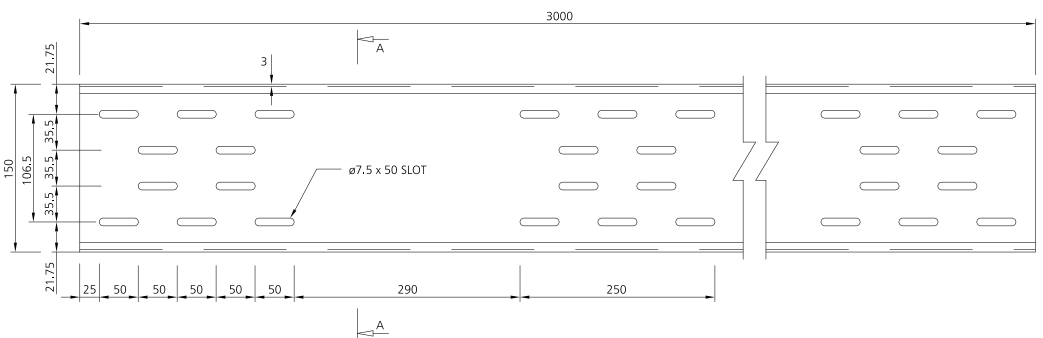
SECTION A-A



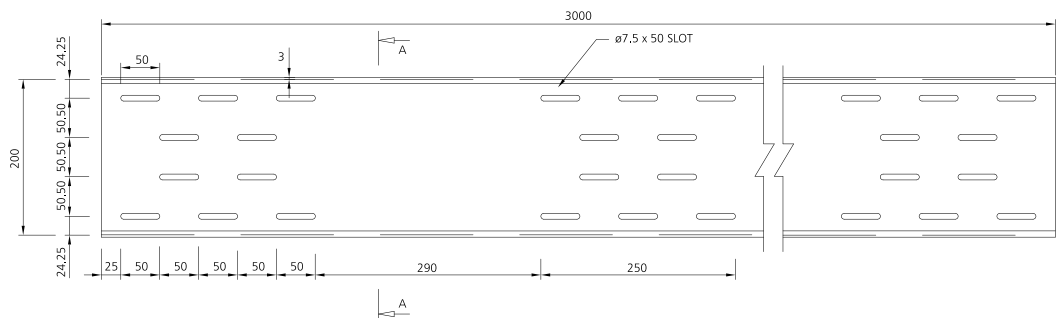
TP 050 50 C-STRAIGHT RUN



TP 100 50 C-STRAIGHT RUN



TP 150 50 C-STRAIGHT RUN



TP 200 50 C-STRAIGHT RUN

Straight Sections are available for Non-Perforated Bottom (-N)
For instance, **ITCT50-SS-50-N**

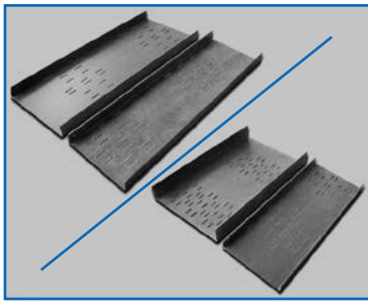
* Thickness of Cable Tray = 3mm

PART NO	HEIGHT (mm)	WIDTH (mm)	PERFORATION
ITCT50-SS-50-P	50	50	Perforated Bottom
ITCT50-SS-75-P	50	75	Perforated Bottom
ITCT50-SS-100-P	50	100	Perforated Bottom
ITCT50-SS-150-P	50	150	Perforated Bottom
ITCT50-SS-200-P	50	200	Perforated Bottom
ITCT50-SS-300-P	50	300	Perforated Bottom

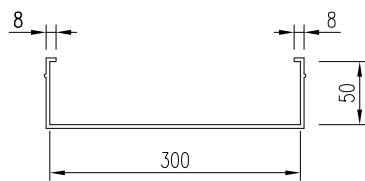
PART NO	HEIGHT (mm)	WIDTH (mm)	PERFORATION
ITCT50-SS-400-P	50	400	Perforated Bottom
ITCT110-SS-150-P	110	150	Perforated Bottom
ITCT110-SS-200-P	110	200	Perforated Bottom
ITCT110-SS-300-P	110	300	Perforated Bottom
ITCT110-SS-450-P	110	450	Perforated Bottom
ITCT110-SS-600-P	110	600	Perforated Bottom



Cable Tray

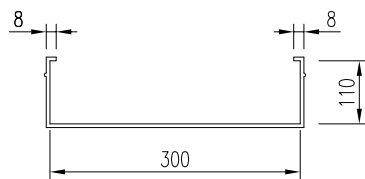


Cable Tray Pultruded Type,
"C" Shape



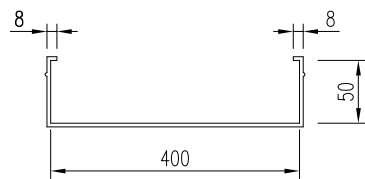
SECTION A-A

TP 300 50 C-STRAIGHT RUN



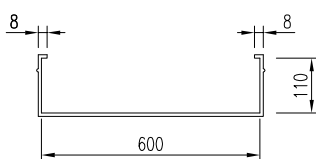
SECTION A-A

TP 300 110 C-STRAIGHT RUN



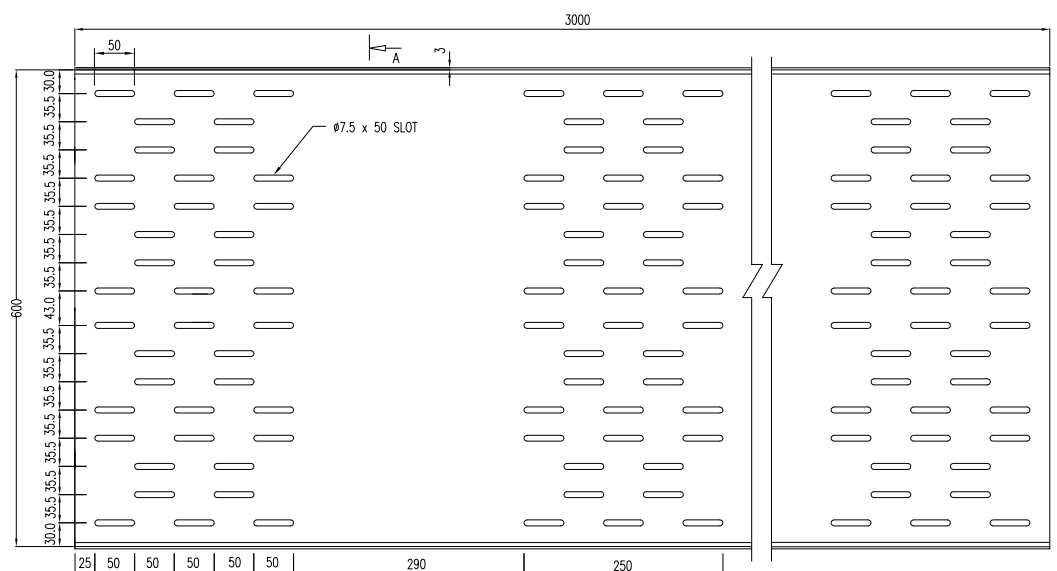
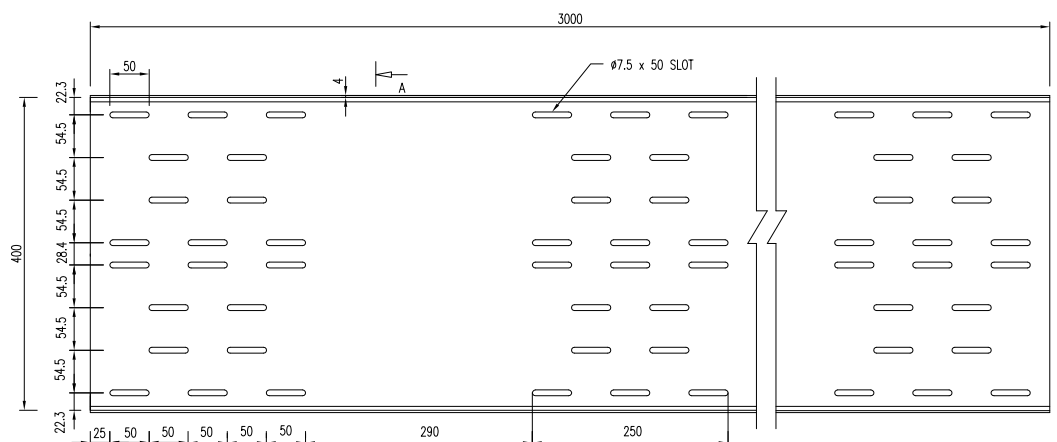
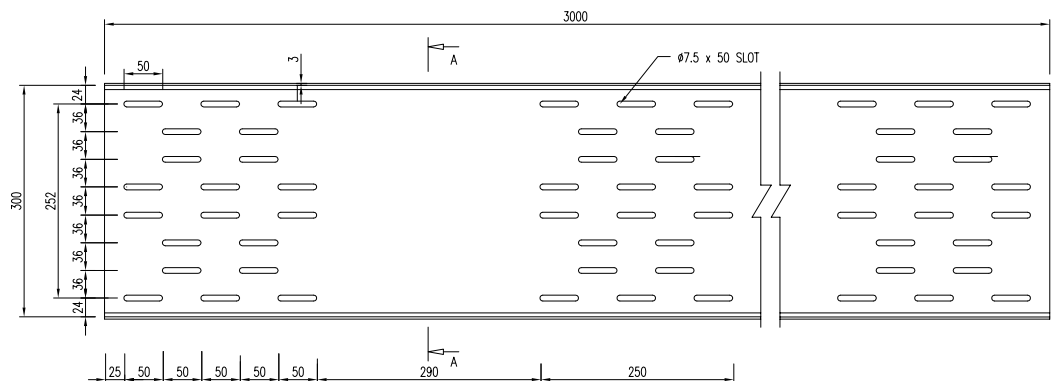
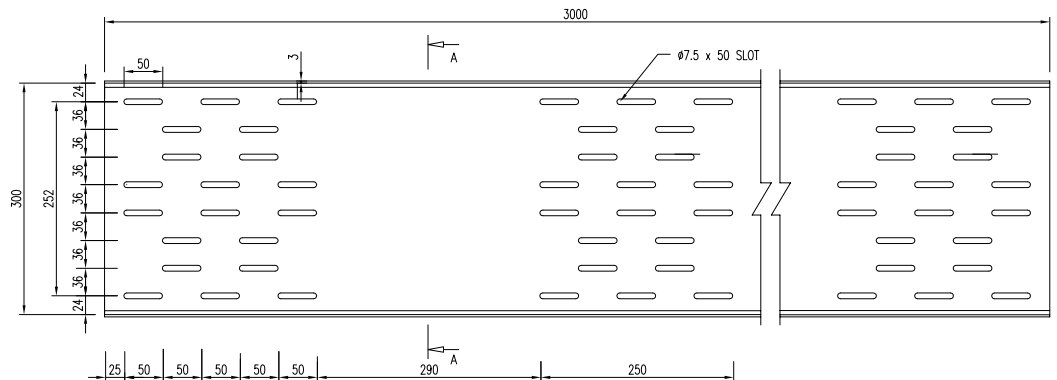
SECTION A-A

TP 400 50 C-STRAIGHT RUN



SECTION A-A

TP 600 110 C-STRAIGHT RUN

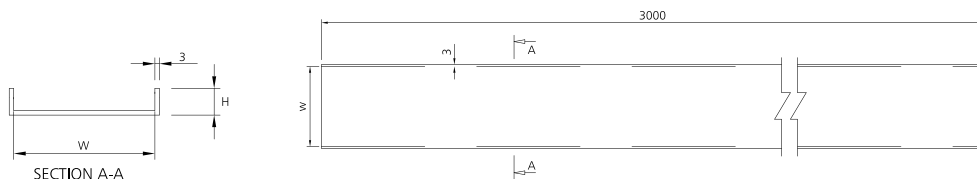




Cable Tray



Cable Tray-C Series & U Series-Cover



For instance, ITCT-SS-50-C-V

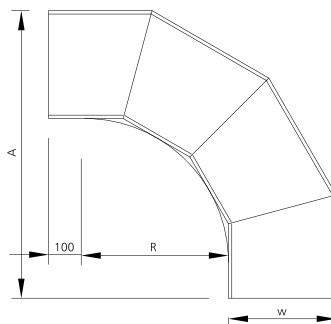
Covers are available for Ventilated (-V) option
For instance, **ITCT-SS-50-C-V**

PART NO	WIDTH (mm)	VENTILATION
ITCT-SS-50-C-N	50	Non-Ventilated Cover
ITCT-SS-75-C-N	75	Non-Ventilated Cover
ITCT-SS-100-C-N	100	Non-Ventilated Cover
ITCT-SS-150-C-N	150	Non-Ventilated Cover

PART NO	WIDTH (mm)	VENTILATION
ITCT-SS-200-C-N	200	Non-Ventilated Cover
ITCT-SS-300-C-N	300	Non-Ventilated Cover
ITCT-SS-400-C-N	400	Non-Ventilated Cover
ITCT-SS-450-C-N	450	Non-Ventilated Cover
ITCT-SS-600-C-N	600	Non-Ventilated Cover



Cable Tray-Horizontal Bend



Fittings are available for R300, R450, R600
Fittings are available for Non-Perforated Bottom (-N)
For instance, **ITCT50-HB-90-300R-50-N**

PART NO	HEIGHT (mm)	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-HB-90-300R-50-P	50	90	300	50	Perforated Bottom
ITCT50-HB-90-300R-75-P	50	90	300	75	Perforated Bottom
ITCT50-HB-90-300R-100-P	50	90	300	100	Perforated Bottom
ITCT50-HB-90-300R-150-P	50	90	300	150	Perforated Bottom
ITCT50-HB-90-300R-200-P	50	90	300	200	Perforated Bottom
ITCT50-HB-90-300R-300-P	50	90	300	300	Perforated Bottom
ITCT50-HB-90-300R-400-P	50	90	300	400	Perforated Bottom
ITCT50-HB-60-300R-50-P	50	60	300	50	Perforated Bottom
ITCT50-HB-60-300R-75-P	50	60	300	75	Perforated Bottom
ITCT50-HB-60-300R-100-P	50	60	300	100	Perforated Bottom
ITCT50-HB-60-300R-150-P	50	60	300	150	Perforated Bottom
ITCT50-HB-60-300R-200-P	50	60	300	200	Perforated Bottom
ITCT50-HB-60-300R-300-P	50	60	300	300	Perforated Bottom
ITCT50-HB-60-300R-400-P	50	60	300	400	Perforated Bottom
ITCT50-HB-45-300R-50-P	50	45	300	50	Perforated Bottom
ITCT50-HB-45-300R-75-P	50	45	300	75	Perforated Bottom
ITCT50-HB-45-300R-100-P	50	45	300	100	Perforated Bottom
ITCT50-HB-45-300R-150-P	50	45	300	150	Perforated Bottom
ITCT50-HB-45-300R-200-P	50	45	300	200	Perforated Bottom
ITCT50-HB-45-300R-300-P	50	45	300	300	Perforated Bottom
ITCT50-HB-45-300R-400-P	50	45	300	400	Perforated Bottom
ITCT50-HB-30-300R-50-P	50	30	300	50	Perforated Bottom
ITCT50-HB-30-300R-75-P	50	30	300	75	Perforated Bottom
ITCT50-HB-30-300R-100-P	50	30	300	100	Perforated Bottom

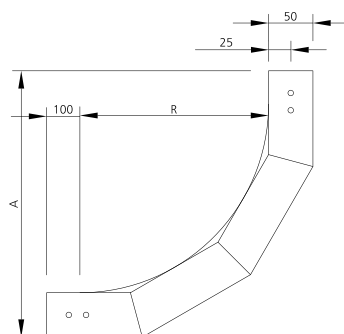
PART NO	HEIGHT (mm)	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-HB-30-300R-150-P	50	30	300	150	Perforated Bottom
ITCT50-HB-30-300R-200-P	50	30	300	200	Perforated Bottom
ITCT50-HB-30-300R-300-P	50	30	300	300	Perforated Bottom
ITCT50-HB-30-300R-400-P	50	30	300	400	Perforated Bottom
ITCT110-HB-90-300R-150-P	110	90	300	150	Perforated Bottom
ITCT110-HB-90-300R-200-P	110	90	300	200	Perforated Bottom
ITCT110-HB-90-300R-300-P	110	90	300	300	Perforated Bottom
ITCT110-HB-90-300R-450-P	110	90	300	450	Perforated Bottom
ITCT110-HB-90-300R-600-P	110	90	300	600	Perforated Bottom
ITCT110-HB-60-300R-150-P	110	60	300	150	Perforated Bottom
ITCT110-HB-60-300R-200-P	110	60	300	200	Perforated Bottom
ITCT110-HB-60-300R-300-P	110	60	300	300	Perforated Bottom
ITCT110-HB-60-300R-450-P	110	60	300	450	Perforated Bottom
ITCT110-HB-60-300R-600-P	110	60	300	600	Perforated Bottom
ITCT110-HB-45-300R-150-P	110	45	300	150	Perforated Bottom
ITCT110-HB-45-300R-200-P	110	45	300	200	Perforated Bottom
ITCT110-HB-45-300R-300-P	110	45	300	300	Perforated Bottom
ITCT110-HB-45-300R-450-P	110	45	300	450	Perforated Bottom
ITCT110-HB-45-300R-600-P	110	45	300	600	Perforated Bottom
ITCT110-HB-30-300R-150-P	110	30	300	150	Perforated Bottom
ITCT110-HB-30-300R-200-P	110	30	300	200	Perforated Bottom
ITCT110-HB-30-300R-300-P	110	30	300	300	Perforated Bottom
ITCT110-HB-30-300R-450-P	110	30	300	450	Perforated Bottom
ITCT110-HB-30-300R-600-P	110	30	300	600	Perforated Bottom



Cable Tray



Cable Tray-Inside Vertical Bend



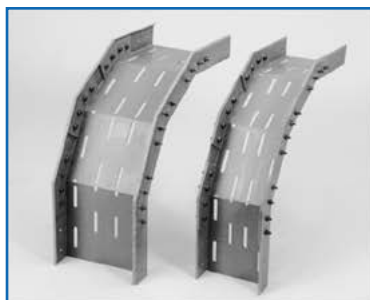
Fittings are available for R300, R450, R600
Fittings are available for Non-Perforated Bottom (-N)
For instance, **ITCT50-IVB-90-600R-50-N**

PART NO	HEIGHT (mm)	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-IVB-90-300R-50-P	50	90	300	50	Perforated Bottom
ITCT50-IVB-90-300R-75-P	50	90	300	75	Perforated Bottom
ITCT50-IVB-90-300R-100-P	50	90	300	100	Perforated Bottom
ITCT50-IVB-90-300R-150-P	50	90	300	150	Perforated Bottom
ITCT50-IVB-90-300R-200-P	50	90	300	200	Perforated Bottom
ITCT50-IVB-90-300R-300-P	50	90	300	300	Perforated Bottom
ITCT50-IVB-90-300R-400-P	50	90	300	400	Perforated Bottom
ITCT50-IVB-60-300R-50-P	50	60	300	50	Perforated Bottom
ITCT50-IVB-60-300R-75-P	50	60	300	75	Perforated Bottom
ITCT50-IVB-60-300R-100-P	50	60	300	100	Perforated Bottom
ITCT50-IVB-60-300R-150-P	50	60	300	150	Perforated Bottom
ITCT50-IVB-60-300R-200-P	50	60	300	200	Perforated Bottom
ITCT50-IVB-60-300R-300-P	50	60	300	300	Perforated Bottom
ITCT50-IVB-60-300R-400-P	50	60	300	400	Perforated Bottom
ITCT50-IVB-45-300R-50-P	50	45	300	50	Perforated Bottom
ITCT50-IVB-45-300R-75-P	50	45	300	75	Perforated Bottom
ITCT50-IVB-45-300R-100-P	50	45	300	100	Perforated Bottom
ITCT50-IVB-45-300R-150-P	50	45	300	150	Perforated Bottom
ITCT50-IVB-45-300R-200-P	50	45	300	200	Perforated Bottom
ITCT50-IVB-45-300R-300-P	50	45	300	300	Perforated Bottom
ITCT50-IVB-45-300R-400-P	50	45	300	400	Perforated Bottom
ITCT50-IVB-30-300R-50-P	50	30	300	50	Perforated Bottom
ITCT50-IVB-30-300R-75-P	50	30	300	75	Perforated Bottom
ITCT50-IVB-30-300R-100-P	50	30	300	100	Perforated Bottom

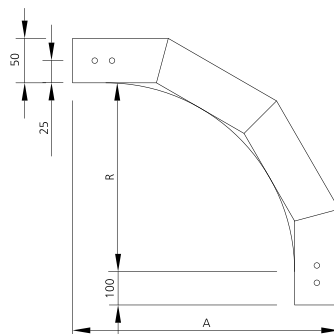
PART NO	HEIGHT (mm)	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-IVB-30-300R-150-P	50	30	300	150	Perforated Bottom
ITCT50-IVB-30-300R-200-P	50	30	300	200	Perforated Bottom
ITCT50-IVB-30-300R-300-P	50	30	300	300	Perforated Bottom
ITCT50-IVB-30-300R-400-P	50	30	300	400	Perforated Bottom
ITCT110-IVB-90-300R-150-P	110	90	300	150	Perforated Bottom
ITCT110-IVB-90-300R-200-P	110	90	300	200	Perforated Bottom
ITCT110-IVB-90-300R-300-P	110	90	300	300	Perforated Bottom
ITCT110-IVB-90-300R-450-P	110	90	300	450	Perforated Bottom
ITCT110-IVB-90-300R-600-P	110	90	300	600	Perforated Bottom
ITCT110-IVB-60-300R-150-P	110	60	300	150	Perforated Bottom
ITCT110-IVB-60-300R-200-P	110	60	300	200	Perforated Bottom
ITCT110-IVB-60-300R-300-P	110	60	300	300	Perforated Bottom
ITCT110-IVB-60-300R-450-P	110	60	300	450	Perforated Bottom
ITCT110-IVB-60-300R-600-P	110	60	300	600	Perforated Bottom
ITCT110-IVB-45-300R-150-P	110	45	300	150	Perforated Bottom
ITCT110-IVB-45-300R-200-P	110	45	300	200	Perforated Bottom
ITCT110-IVB-45-300R-300-P	110	45	300	300	Perforated Bottom
ITCT110-IVB-45-300R-450-P	110	45	300	450	Perforated Bottom
ITCT110-IVB-45-300R-600-P	110	45	300	600	Perforated Bottom
ITCT110-IVB-30-300R-150-P	110	30	300	150	Perforated Bottom
ITCT110-IVB-30-300R-200-P	110	30	300	200	Perforated Bottom
ITCT110-IVB-30-300R-300-P	110	30	300	300	Perforated Bottom
ITCT110-IVB-30-300R-450-P	110	30	300	450	Perforated Bottom
ITCT110-IVB-30-300R-600-P	110	30	300	600	Perforated Bottom



Cable Tray



Cable Tray-Outside Vertical Bend



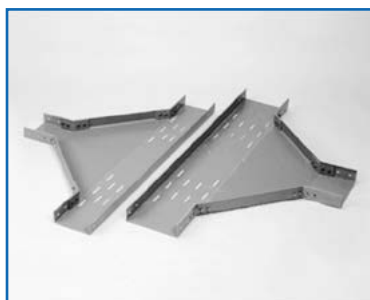
Fittings are available for R300, R450, R600
Fittings are available for Non-Perforated Bottom (-N)
For instance, **ITCT50-OVB-90-600R-50-N**

PART NO	HEIGHT (mm)	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-OVB-90-300R-50-P	50	90	300	50	Perforated Bottom
ITCT50-OVB-90-300R-75-P	50	90	300	75	Perforated Bottom
ITCT50-OVB-90-300R-100-P	50	90	300	100	Perforated Bottom
ITCT50-OVB-90-300R-150-P	50	90	300	150	Perforated Bottom
ITCT50-OVB-90-300R-200-P	50	90	300	200	Perforated Bottom
ITCT50-OVB-90-300R-300-P	50	90	300	300	Perforated Bottom
ITCT50-OVB-90-300R-400-P	50	90	300	400	Perforated Bottom
ITCT50-OVB-60-300R-50-P	50	60	300	50	Perforated Bottom
ITCT50-OVB-60-300R-75-P	50	60	300	75	Perforated Bottom
ITCT50-OVB-60-300R-100-P	50	60	300	100	Perforated Bottom
ITCT50-OVB-60-300R-150-P	50	60	300	150	Perforated Bottom
ITCT50-OVB-60-300R-200-P	50	60	300	200	Perforated Bottom
ITCT50-OVB-60-300R-300-P	50	60	300	300	Perforated Bottom
ITCT50-OVB-60-300R-400-P	50	60	300	400	Perforated Bottom
ITCT50-OVB-45-300R-50-P	50	45	300	50	Perforated Bottom
ITCT50-OVB-45-300R-75-P	50	45	300	75	Perforated Bottom
ITCT50-OVB-45-300R-100-P	50	45	300	100	Perforated Bottom
ITCT50-OVB-45-300R-150-P	50	45	300	150	Perforated Bottom
ITCT50-OVB-45-300R-200-P	50	45	300	200	Perforated Bottom
ITCT50-OVB-45-300R-300-P	50	45	300	300	Perforated Bottom
ITCT50-OVB-45-300R-400-P	50	45	300	400	Perforated Bottom
ITCT50-OVB-30-300R-50-P	50	30	300	50	Perforated Bottom
ITCT50-OVB-30-300R-75-P	50	30	300	75	Perforated Bottom
ITCT50-OVB-30-300R-100-P	50	30	300	100	Perforated Bottom

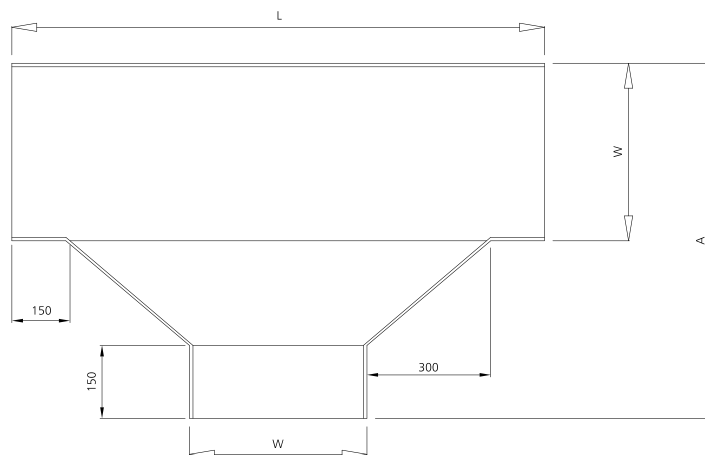
PART NO	HEIGHT (mm)	ANGLE (deg)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-OVB-30-300R-150-P	50	30	300	150	Perforated Bottom
ITCT50-OVB-30-300R-200-P	50	30	300	200	Perforated Bottom
ITCT50-OVB-30-300R-300-P	50	30	300	300	Perforated Bottom
ITCT50-OVB-30-300R-400-P	50	30	300	400	Perforated Bottom
ITCT110-OVB-90-300R-150-P	110	90	300	150	Perforated Bottom
ITCT110-OVB-90-300R-200-P	110	90	300	200	Perforated Bottom
ITCT110-OVB-90-300R-300-P	110	90	300	300	Perforated Bottom
ITCT110-OVB-90-300R-450-P	110	90	300	450	Perforated Bottom
ITCT110-OVB-90-300R-600-P	110	90	300	600	Perforated Bottom
ITCT110-OVB-60-300R-150-P	110	60	300	150	Perforated Bottom
ITCT110-OVB-60-300R-200-P	110	60	300	200	Perforated Bottom
ITCT110-OVB-60-300R-300-P	110	60	300	300	Perforated Bottom
ITCT110-OVB-60-300R-450-P	110	60	300	450	Perforated Bottom
ITCT110-OVB-60-300R-600-P	110	60	300	600	Perforated Bottom
ITCT110-OVB-45-300R-150-P	110	45	300	150	Perforated Bottom
ITCT110-OVB-45-300R-200-P	110	45	300	200	Perforated Bottom
ITCT110-OVB-45-300R-300-P	110	45	300	300	Perforated Bottom
ITCT110-OVB-45-300R-450-P	110	45	300	450	Perforated Bottom
ITCT110-OVB-45-300R-600-P	110	45	300	600	Perforated Bottom
ITCT110-OVB-30-300R-150-P	110	30	300	150	Perforated Bottom
ITCT110-OVB-30-300R-200-P	110	30	300	200	Perforated Bottom
ITCT110-OVB-30-300R-300-P	110	30	300	300	Perforated Bottom
ITCT110-OVB-30-300R-450-P	110	30	300	450	Perforated Bottom
ITCT110-OVB-30-300R-600-P	110	30	300	600	Perforated Bottom



Cable Tray



Cable Tray-Horizontal
Equal Tee



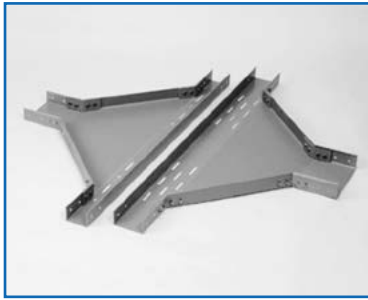
Fittings are available for R300, R450, R600
Fittings are available for Non-Perforated Bottom (-N)
For instance, **ITCT50-HT-600R-50-N**

PART NO	HEIGHT (mm)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-HT-300R-50-P	50	300	50	Perforated Bottom
ITCT50-HT-300R-75-P	50	300	75	Perforated Bottom
ITCT50-HT-300R-100-P	50	300	100	Perforated Bottom
ITCT50-HT-300R-150-P	50	300	150	Perforated Bottom
ITCT50-HT-300R-200-P	50	300	200	Perforated Bottom
ITCT50-HT-300R-300-P	50	300	300	Perforated Bottom

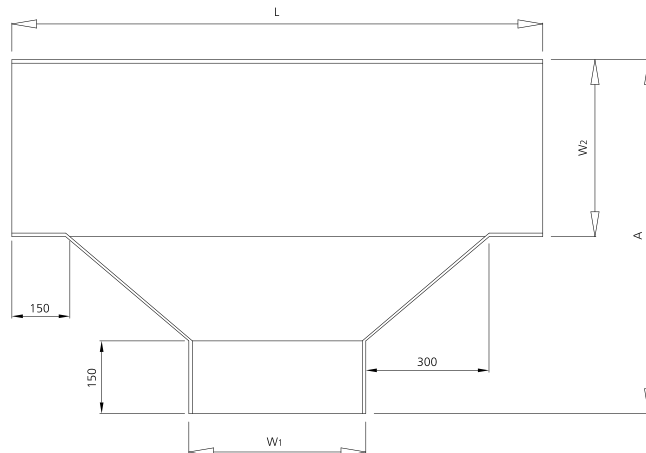
PART NO	HEIGHT (mm)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-HT-300R-400-P	50	300	400	Perforated Bottom
ITCT110-HT-300R-150-P	110	300	150	Perforated Bottom
ITCT110-HT-300R-200-P	110	300	200	Perforated Bottom
ITCT110-HT-300R-300-P	110	300	300	Perforated Bottom
ITCT110-HT-300R-450-P	110	300	450	Perforated Bottom
ITCT110-HT-300R-600-P	110	300	600	Perforated Bottom



Cable Tray



Cable Tray-Horizontal
Unequal Tee



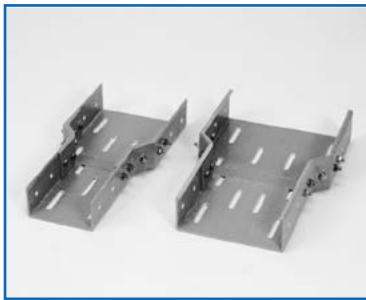
Fittings are available for R300, R450, R600
Fittings are available for Non-Perforated Bottom (-N)
For instance, **ITCT50-HUT-600R-50-N**

PART NO	HEIGHT (mm)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-HUT-300R-50-75-P	50	300	50 - 75	Perforated Bottom
ITCT50-HUT-300R-50-100-P	50	300	50 - 100	Perforated Bottom
ITCT50-HUT-300R-50-150-P	50	300	50 - 150	Perforated Bottom
ITCT50-HUT-300R-50-200-P	50	300	50 - 200	Perforated Bottom
ITCT50-HUT-300R-50-300-P	50	300	50 - 300	Perforated Bottom
ITCT50-HUT-300R-50-400-P	50	300	50 - 400	Perforated Bottom
ITCT50-HUT-300R-75-50-P	50	300	75 - 50	Perforated Bottom
ITCT50-HUT-300R-75-100-P	50	300	75 - 100	Perforated Bottom
ITCT50-HUT-300R-75-150-P	50	300	75 - 150	Perforated Bottom
ITCT50-HUT-300R-75-200-P	50	300	75 - 200	Perforated Bottom
ITCT50-HUT-300R-75-300-P	50	300	75 - 300	Perforated Bottom
ITCT50-HUT-300R-75-400-P	50	300	75 - 400	Perforated Bottom
ITCT50-HUT-300R-100-50-P	50	300	100 - 50	Perforated Bottom
ITCT50-HUT-300R-100-75-P	50	300	100 - 75	Perforated Bottom
ITCT50-HUT-300R-100-150-P	50	300	100 - 150	Perforated Bottom
ITCT50-HUT-300R-100-200-P	50	300	100 - 200	Perforated Bottom
ITCT50-HUT-300R-100-300-P	50	300	100 - 300	Perforated Bottom
ITCT50-HUT-300R-100-400-P	50	300	100 - 400	Perforated Bottom
ITCT50-HUT-300R-150-50-P	50	300	150 - 50	Perforated Bottom
ITCT50-HUT-300R-150-75-P	50	300	150 - 75	Perforated Bottom
ITCT50-HUT-300R-150-100-P	50	300	150 - 100	Perforated Bottom
ITCT50-HUT-300R-150-200-P	50	300	150 - 150	Perforated Bottom
ITCT50-HUT-300R-150-300-P	50	300	150 - 300	Perforated Bottom
ITCT50-HUT-300R-150-400-P	50	300	150 - 400	Perforated Bottom
ITCT50-HUT-300R-200-50-P	50	300	200 - 50	Perforated Bottom
ITCT50-HUT-300R-200-75-P	50	300	200 - 75	Perforated Bottom
ITCT50-HUT-300R-200-100-P	50	300	200 - 100	Perforated Bottom
ITCT50-HUT-300R-200-150-P	50	300	200 - 150	Perforated Bottom
ITCT50-HUT-300R-200-300-P	50	300	200 - 300	Perforated Bottom
ITCT50-HUT-300R-200-400-P	50	300	200 - 400	Perforated Bottom
ITCT50-HUT-300R-300-50-P	50	300	300 - 50	Perforated Bottom

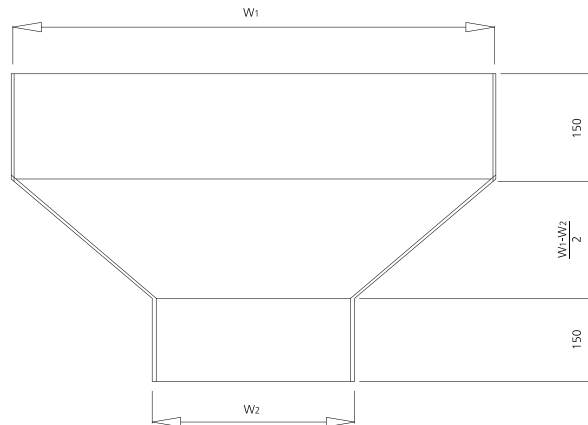
PART NO	HEIGHT (mm)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-HUT-300R-300-75-P	50	300	300 - 75	Perforated Bottom
ITCT50-HUT-300R-300-100-P	50	300	300 - 100	Perforated Bottom
ITCT50-HUT-300R-300-150-P	50	300	300 - 150	Perforated Bottom
ITCT50-HUT-300R-300-200-P	50	300	300 - 200	Perforated Bottom
ITCT50-HUT-300R-300-400-P	50	300	300 - 400	Perforated Bottom
ITCT50-HUT-300R-400-50-P	50	300	400 - 50	Perforated Bottom
ITCT50-HUT-300R-400-75-P	50	300	400 - 75	Perforated Bottom
ITCT50-HUT-300R-400-100-P	50	300	400 - 100	Perforated Bottom
ITCT50-HUT-300R-400-150-P	50	300	400 - 150	Perforated Bottom
ITCT50-HUT-300R-400-200-P	50	300	400 - 200	Perforated Bottom
ITCT50-HUT-300R-400-300-P	50	300	400 - 300	Perforated Bottom
ITCT110-HUT-300R-150-200-P	110	300	150 - 200	Perforated Bottom
ITCT110-HUT-300R-150-300-P	110	300	150 - 300	Perforated Bottom
ITCT110-HUT-300R-150-450-P	110	300	150 - 450	Perforated Bottom
ITCT110-HUT-300R-150-600-P	110	300	150 - 600	Perforated Bottom
ITCT110-HUT-300R-200-150-P	110	300	200 - 150	Perforated Bottom
ITCT110-HUT-300R-200-300-P	110	300	200 - 300	Perforated Bottom
ITCT110-HUT-300R-200-450-P	110	300	200 - 450	Perforated Bottom
ITCT110-HUT-300R-200-600-P	110	300	200 - 600	Perforated Bottom
ITCT110-HUT-300R-300-150-P	110	300	300 - 150	Perforated Bottom
ITCT110-HUT-300R-300-200-P	110	300	300 - 200	Perforated Bottom
ITCT110-HUT-300R-300-450-P	110	300	300 - 450	Perforated Bottom
ITCT110-HUT-300R-300-600-P	110	300	300 - 600	Perforated Bottom
ITCT110-HUT-300R-450-150-P	110	300	450 - 150	Perforated Bottom
ITCT110-HUT-300R-450-200-P	110	300	450 - 200	Perforated Bottom
ITCT110-HUT-300R-450-300-P	110	300	450 - 300	Perforated Bottom
ITCT110-HUT-300R-450-600-P	110	300	450 - 600	Perforated Bottom
ITCT110-HUT-300R-600-150-P	110	300	600 - 150	Perforated Bottom
ITCT110-HUT-300R-600-200-P	110	300	600 - 200	Perforated Bottom
ITCT110-HUT-300R-600-300-P	110	300	600 - 300	Perforated Bottom
ITCT110-HUT-300R-600-450-P	110	300	600 - 450	Perforated Bottom



Cable Tray



Cable Tray-Straight Reducer



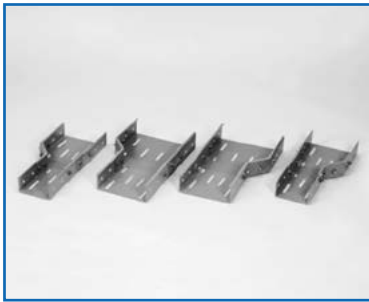
Fittings are available for Non-Perforated Bottom (-N)
For instance, **ITCT50-SR-75-50-N**

PART NO	HEIGHT (mm)	WIDTH (mm)	PERFORATION
ITCT50-SR-75-50-P	50	75 - 50	Perforated Bottom
ITCT50-SR-100-50-P	50	100 - 50	Perforated Bottom
ITCT50-SR-100-75-P	50	100 - 75	Perforated Bottom
ITCT50-SR-150-50-P	50	150 - 50	Perforated Bottom
ITCT50-SR-150-75-P	50	150 - 75	Perforated Bottom
ITCT50-SR-150-100-P	50	150 - 100	Perforated Bottom
ITCT50-SR-200-50-P	50	200 - 50	Perforated Bottom
ITCT50-SR-200-75-P	50	200 - 75	Perforated Bottom
ITCT50-SR-200-100-P	50	200 - 100	Perforated Bottom
ITCT50-SR-200-150-P	50	200 - 150	Perforated Bottom
ITCT50-SR-300-50-P	50	300 - 50	Perforated Bottom
ITCT50-SR-300-75-P	50	300 - 75	Perforated Bottom
ITCT50-SR-300-100-P	50	300 - 100	Perforated Bottom
ITCT50-SR-300-150-P	50	300 - 150	Perforated Bottom
ITCT50-SR-300-200-P	50	300 - 200	Perforated Bottom
ITCT50-SR-400-50-P	50	400 - 50	Perforated Bottom

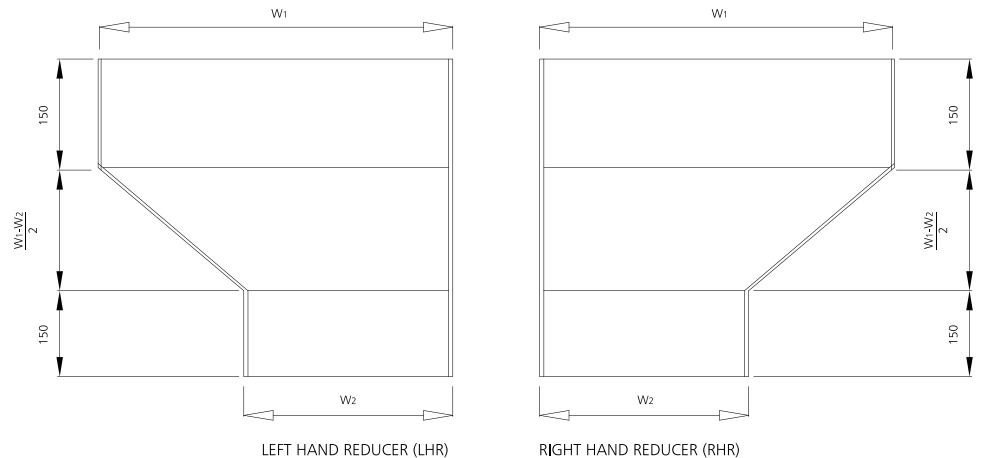
PART NO	HEIGHT (mm)	WIDTH (mm)	PERFORATION
ITCT50-SR-400-75-P	50	400 - 75	Perforated Bottom
ITCT50-SR-400-100-P	50	400 - 100	Perforated Bottom
ITCT50-SR-400-150-P	50	400 - 150	Perforated Bottom
ITCT50-SR-400-200-P	50	400 - 200	Perforated Bottom
ITCT50-SR-400-300-P	50	400 - 300	Perforated Bottom
ITCT110-SR-200-150-P	110	200 - 150	Perforated Bottom
ITCT110-SR-300-150-P	110	300 - 150	Perforated Bottom
ITCT110-SR-300-200-P	110	300 - 200	Perforated Bottom
ITCT110-SR-450-150-P	110	450 - 150	Perforated Bottom
ITCT110-SR-450-200-P	110	450 - 200	Perforated Bottom
ITCT110-SR-450-300-P	110	450 - 300	Perforated Bottom
ITCT110-SR-600-150-P	110	600 - 150	Perforated Bottom
ITCT110-SR-600-200-P	110	600 - 200	Perforated Bottom
ITCT110-SR-600-300-P	110	600 - 300	Perforated Bottom
ITCT110-SR-600-450-P	110	600 - 450	Perforated Bottom



Cable Tray



Cable Tray-Right/Left
Hand Reducer



LEFT HAND REDUCER (LHR)

RIGHT HAND REDUCER (RHR)

Fittings are available for Non-Perforated Bottom (-N)
For instance, **ITCT50-LHR-75-50-N**

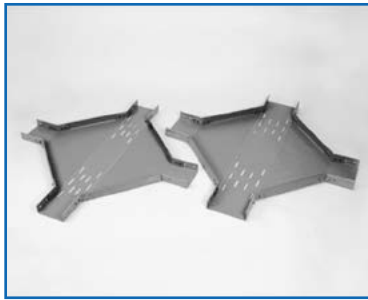
PART NO	HEIGHT (mm)	WIDTH (mm)	PERFORATION
ITCT50-LHR-75-50-P	50	75 - 50	Perforated Bottom
ITCT50-LHR-100-50-P	50	100 - 50	Perforated Bottom
ITCT50-LHR-100-75-P	50	100 - 75	Perforated Bottom
ITCT50-LHR-150-50-P	50	150 - 50	Perforated Bottom
ITCT50-LHR-150-75-P	50	150 - 75	Perforated Bottom
ITCT50-LHR-150-100-P	50	150 - 100	Perforated Bottom
ITCT50-LHR-200-50-P	50	200 - 50	Perforated Bottom
ITCT50-LHR-200-75-P	50	200 - 75	Perforated Bottom
ITCT50-LHR-200-100-P	50	200 - 100	Perforated Bottom
ITCT50-LHR-200-150-P	50	200 - 150	Perforated Bottom
ITCT50-LHR-300-50-P	50	300 - 50	Perforated Bottom
ITCT50-LHR-300-75-P	50	300 - 75	Perforated Bottom
ITCT50-LHR-300-100-P	50	300 - 100	Perforated Bottom
ITCT50-LHR-300-150-P	50	300 - 150	Perforated Bottom
ITCT50-LHR-300-200-P	50	300 - 200	Perforated Bottom
ITCT50-LHR-400-50-P	50	400 - 50	Perforated Bottom
ITCT50-LHR-400-75-P	50	400 - 75	Perforated Bottom
ITCT50-LHR-400-100-P	50	400 - 100	Perforated Bottom
ITCT50-LHR-400-150-P	50	400 - 150	Perforated Bottom
ITCT50-LHR-400-200-P	50	400 - 200	Perforated Bottom
ITCT50-LHR-400-300-P	50	400 - 300	Perforated Bottom
ITCT110-LHR-200-150-P	110	200 - 150	Perforated Bottom
ITCT110-LHR-300-150-P	110	300 - 150	Perforated Bottom
ITCT110-LHR-300-200-P	110	300 - 200	Perforated Bottom
ITCT110-LHR-450-150-P	110	450 - 150	Perforated Bottom
ITCT110-LHR-450-200-P	110	450 - 200	Perforated Bottom
ITCT110-LHR-450-300-P	110	450 - 300	Perforated Bottom
ITCT110-LHR-600-150-P	110	600 - 150	Perforated Bottom
ITCT110-LHR-600-200-P	110	600 - 200	Perforated Bottom
ITCT110-LHR-600-300-P	110	600 - 300	Perforated Bottom
ITCT110-LHR-600-300-P	110	600 - 450	Perforated Bottom

Fittings are available for Non-Perforated Bottom (-N)
For instance, **ITCT50-RHR-75-50-N**

PART NO	HEIGHT (mm)	WIDTH (mm)	PERFORATION
ITCT50-RHR-75-50-P	50	75 - 50	Perforated Bottom
ITCT50-RHR-100-50-P	50	100 - 50	Perforated Bottom
ITCT50-RHR-100-75-P	50	100 - 75	Perforated Bottom
ITCT50-RHR-150-50-P	50	150 - 50	Perforated Bottom
ITCT50-RHR-150-75-P	50	150 - 75	Perforated Bottom
ITCT50-RHR-150-100-P	50	150 - 100	Perforated Bottom
ITCT50-RHR-200-50-P	50	200 - 50	Perforated Bottom
ITCT50-RHR-200-75-P	50	200 - 75	Perforated Bottom
ITCT50-RHR-200-100-P	50	200 - 100	Perforated Bottom
ITCT50-RHR-200-150-P	50	200 - 150	Perforated Bottom
ITCT50-RHR-300-50-P	50	300 - 50	Perforated Bottom
ITCT50-RHR-300-75-P	50	300 - 75	Perforated Bottom
ITCT50-RHR-300-100-P	50	300 - 100	Perforated Bottom
ITCT50-RHR-300-150-P	50	300 - 150	Perforated Bottom
ITCT50-RHR-300-200-P	50	300 - 200	Perforated Bottom
ITCT50-RHR-400-50-P	50	400 - 50	Perforated Bottom
ITCT50-RHR-400-75-P	50	400 - 75	Perforated Bottom
ITCT50-RHR-400-100-P	50	400 - 100	Perforated Bottom
ITCT50-RHR-400-150-P	50	400 - 150	Perforated Bottom
ITCT50-RHR-400-200-P	50	400 - 200	Perforated Bottom
ITCT50-RHR-400-300-P	50	400 - 300	Perforated Bottom
ITCT110-RHR-200-150-P	110	200 - 150	Perforated Bottom
ITCT110-RHR-300-150-P	110	300 - 150	Perforated Bottom
ITCT110-RHR-300-200-P	110	300 - 200	Perforated Bottom
ITCT110-RHR-450-150-P	110	450 - 150	Perforated Bottom
ITCT110-RHR-450-200-P	110	450 - 200	Perforated Bottom
ITCT110-RHR-450-300-P	110	450 - 300	Perforated Bottom
ITCT110-RHR-600-150-P	110	600 - 150	Perforated Bottom
ITCT110-RHR-600-200-P	110	600 - 200	Perforated Bottom
ITCT110-RHR-600-300-P	110	600 - 300	Perforated Bottom
ITCT110-RHR-600-300-P	110	600 - 450	Perforated Bottom

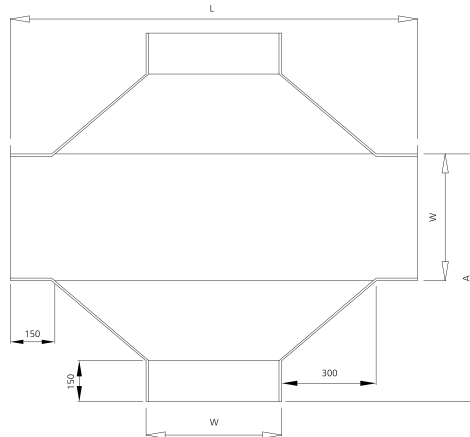


Cable Tray



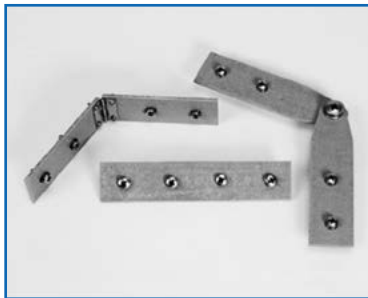
**Cable Tray-Horizontal
Equal Cross**

Fittings are available for R300, R450, R600
Fittings are available for Non-Perforated Bottom (-N)
For instance, **ITCT50-HUT-600R-50-N**

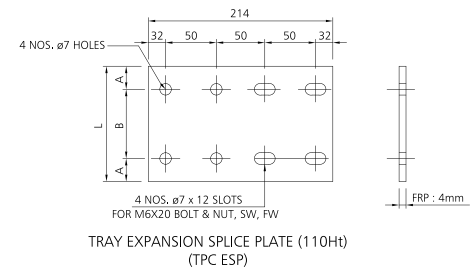
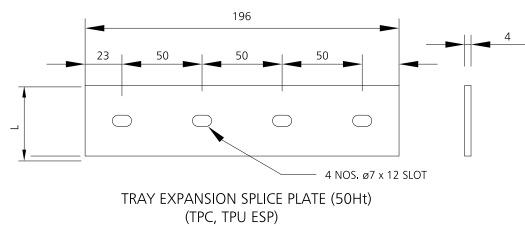


PART NO	HEIGHT (mm)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-HEC-300R-50-P	50	300	50	Perforated Bottom
ITCT50-HEC-300R-75-P	50	300	75	Perforated Bottom
ITCT50-HEC-300R-100-P	50	300	100	Perforated Bottom
ITCT50-HEC-300R-150-P	50	300	150	Perforated Bottom
ITCT50-HEC-300R-200-P	50	300	200	Perforated Bottom
ITCT50-HEC-300R-300-P	50	300	300	Perforated Bottom

PART NO	HEIGHT (mm)	RADIUS (mm)	WIDTH (mm)	PERFORATION
ITCT50-HEC-300R-400-P	50	300	400	Perforated Bottom
ITCT110-HEC-300R-150-P	110	300	150	Perforated Bottom
ITCT110-HEC-300R-200-P	110	300	200	Perforated Bottom
ITCT110-HEC-300R-300-P	110	300	300	Perforated Bottom
ITCT110-HEC-300R-450-P	110	300	450	Perforated Bottom
ITCT110-HEC-300R-600-P	110	300	600	Perforated Bottom

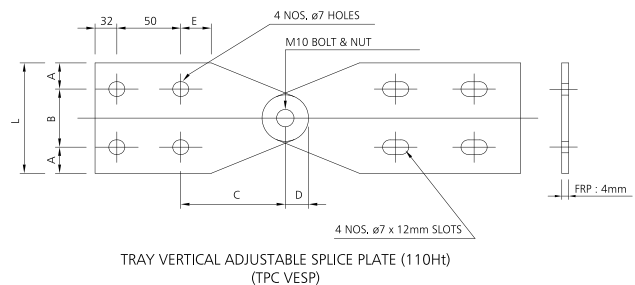
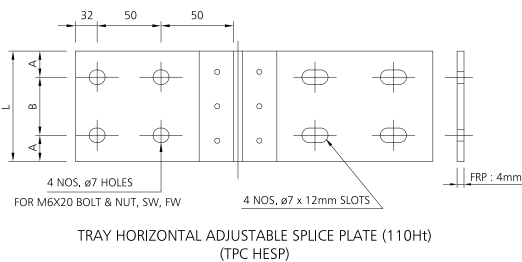
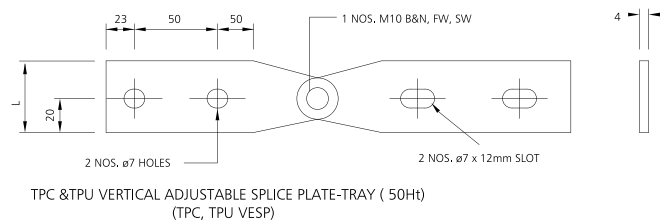
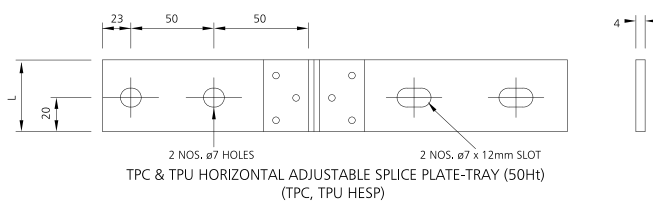


Cable Tray-Splice Plate



PART NUMBER	ITEM DESCRIPTION
ITCT50-ESP-FRP SET-BN PH M6X20	Cable Tray FRP Expansion Splice Plate 50Ht SS316 Pan Head M6 x 20 B&N, SW & FW

PART NUMBER	ITEM DESCRIPTION
ITCT110-ESP-FRP SET-BN PH M6X20	Cable Tray FRP Expansion Splice Plate 110Ht SS316 Pan Head M6 x 20 B&N, SW & FW

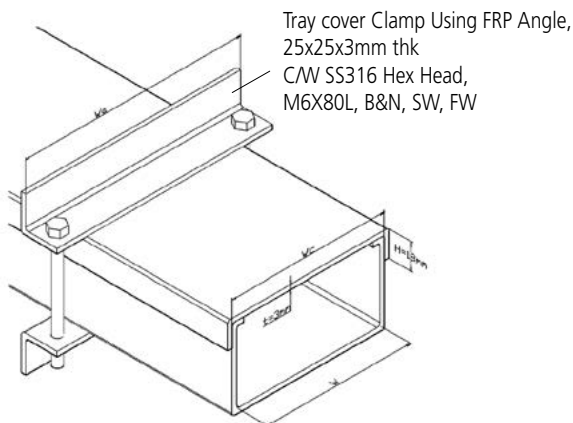


PART NUMBER	ITEM DESCRIPTION
ITCT50-HASP-FRP	Cable Tray FRP Horizontal Adjustable Splice Plate 50Ht
ITCT110-HASP-FRP SET-BN PH M6X20	Cable Tray FRP Horizontal Adjustable Splice Plate 110Ht SS316 Pan Head M6 x 20 B&N, SW & FW

PART NUMBER	ITEM DESCRIPTION
ITCT50-VASP-FRP	Cable Tray FRP Vertical Adjustable Splice Plate 50Ht
ITCT110-VASP-FRP SET-BN PH M6X20	Cable Tray FRP Vertical Adjustable Splice Plate 110Ht SS316 Pan Head M6 x 20 B&N, SW & FW

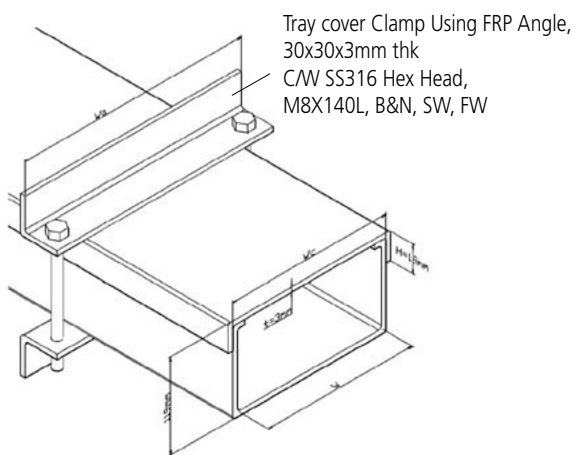


Cable Tray



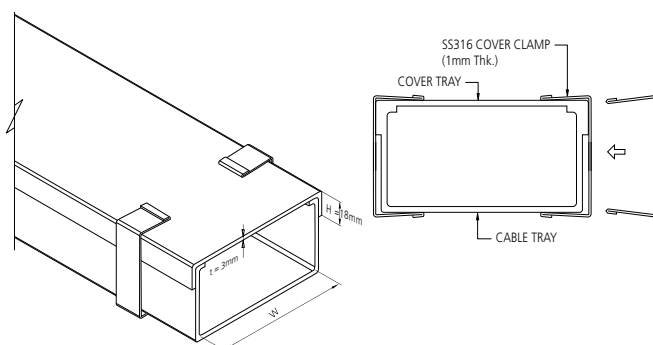
PART NUMBER	ITEM DESCRIPTION
ITCT50-CC-50-FRP	Cable Tray FRP Cover Clamp 50Ht x 50W
ITCT50-CC-75-FRP	Cable Tray FRP Cover Clamp 50Ht x 75W
ITCT50-CC-100-FRP	Cable Tray FRP Cover Clamp 50Ht x 100W
ITCT50-CC-150-FRP	Cable Tray FRP Cover Clamp 50Ht x 150W
ITCT50-CC-200-FRP	Cable Tray FRP Cover Clamp 50Ht x 200W
ITCT50-CC-300-FRP	Cable Tray FRP Cover Clamp 50Ht x 300W
ITCT50-CC-400-FRP	Cable Tray FRP Cover Clamp 50Ht x 400W
SET-BN HH M6X80	SS316 Hex Head M6 x 80 B&N, SW & FW
L25X25X3	FRP L-Angle 25 x 25 x 3mm Thk

All ITCT50-CC c/w 2 nos L25X25X3 (length following respective width) &
2 nos SET-BN HH M6X80

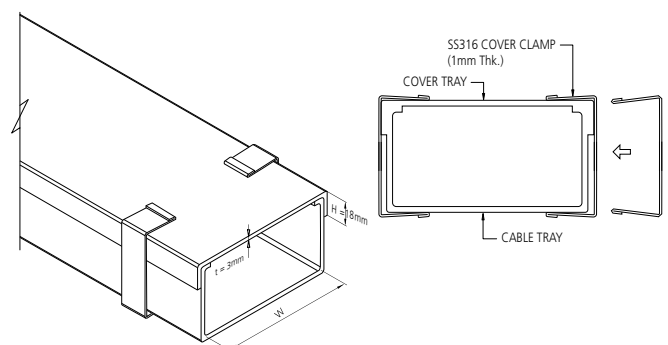


PART NUMBER	ITEM DESCRIPTION
ITCT110-CC-150-FRP	Cable Tray FRP Cover Clamp 110Ht x 150W c/w 2 nos FRP L-Angle 30 x 30 x 3mm Thk c/w 2 nos SS316 Hex Head M8 x 140 B&N, SW & FW
ITCT110-CC-200-FRP	Cable Tray FRP Cover Clamp 110Ht x 200W c/w 2 nos FRP L-Angle 30 x 30 x 3mm Thk c/w 2 nos SS316 Hex Head M8 x 140 B&N, SW & FW
ITCT110-CC-300-FRP	Cable Tray FRP Cover Clamp 110Ht x 300W c/w 2 nos FRP L-Angle 30 x 30 x 3mm Thk c/w 2 nos SS316 Hex Head M8 x 140 B&N, SW & FW
ITCT110-CC-450-FRP	Cable Tray FRP Cover Clamp 110Ht x 450W c/w 2 nos FRP L-Angle 30 x 30 x 3mm Thk c/w 2 nos SS316 Hex Head M8 x 140 B&N, SW & FW
ITCT110-CC-600-FRP	Cable Tray FRP Cover Clamp 110Ht x 600W c/w 2 nos FRP L-Angle 30 x 30 x 3mm Thk c/w 2 nos SS316 Hex Head M8 x 140 B&N, SW & FW
SET-BN HH M8X140	SS316 Hex Head M8 x 140 B&N, SW & FW
L30X30X3	FRP L-Angle 30 x 30 x 3mm Thk

All ITCT110-CC c/w 2 nos L30X30X3 (length following respective width) &
2 nos SET-BN HH M8X140



PART NUMBER	ITEM DESCRIPTION
ITCT50-CC-SS	Cable Tray SS316 Cover Clamp 50Ht

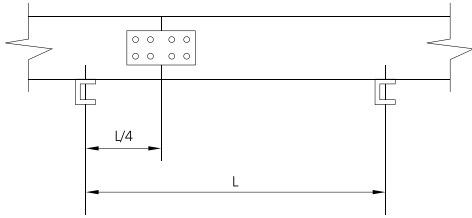


PART NUMBER	ITEM DESCRIPTION
ITCT110-CC-SS	Cable Tray SS316 Cover Clamp 110Ht



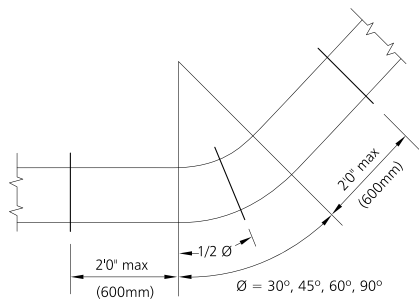
Recommended Support As Per NEMA Standard

SPLICE PLATE LOCATION

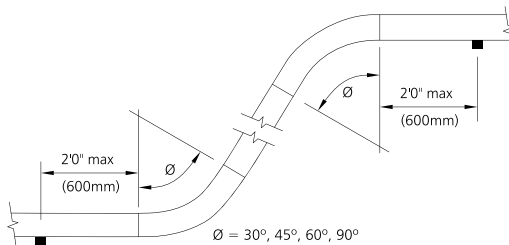


As per NEMA FG1, splice plate is recommended to be located at 1/4 of the span from the support, where the bending moment is zero.

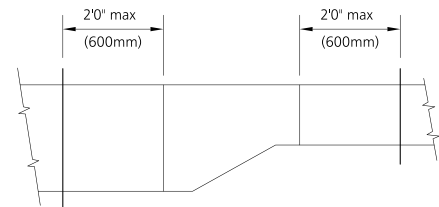
SUPPORT LOCATION



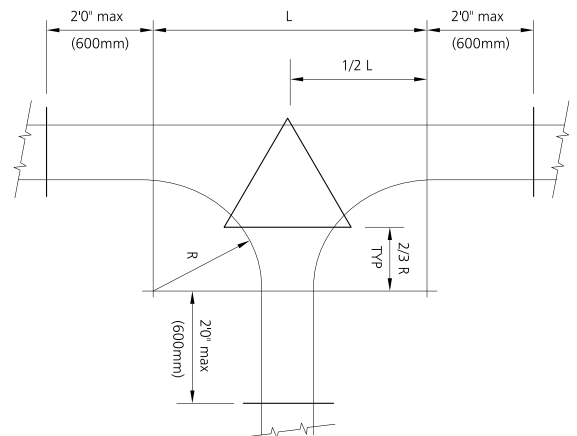
Horizontal Elbows



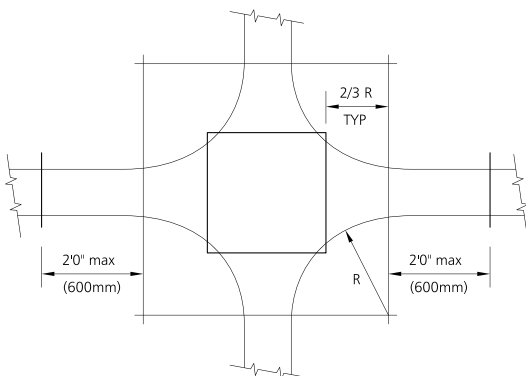
Vertical Elbows



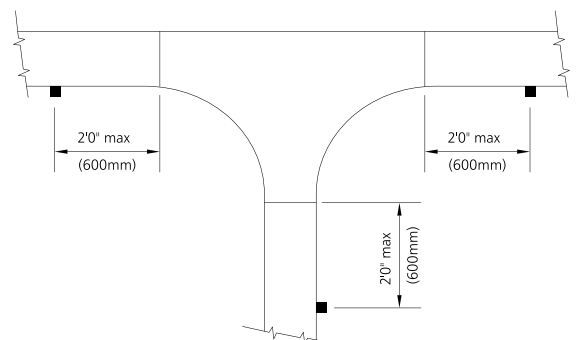
Offset Reducer



Horizontal Tee



Horizontal Cross



Vertical Tee

Chemical Resistance Data

Up to temperature °C	Vinylester		Isophthalic Polyester	
	49°	99°	49°	99°
Acetaldehyde	R	N	N	N
Acetaldehyde, aq. 40%	N	N	N	N
Acetic Acid, glacial	L	N	N	N
Acetic Acid, 20% (25)	R	R	R	N
Acetic Acid, 80%	R	R	N	N
Acetic Anhydride	L	N	N	N
Acetone, 10%	R	N	N	N
Adipic Acid	R	N		
Alcohol, allyl	N	N	R	N
Alcohol, benzyl	L	N	N	N
Alcohol, butyl (n-butanol)	R	N	N	N
Alcohol, butyl (2-butanol)	R	N	N	N
Alcohol, ethyl	L	N	R	N
Alcohol, hexyl	R	L	N	N
Alcohol, isopropyl (2-propanol)	R	N	N	N
Alcohol, methyl	L	N	L	N
Alcohol, propyl (1-propanol)	R	N	N	N
Allyl chloride	N	N	N	N
Alum	R	R	R	R
Ammonia, gas	L	N	R	N
Ammonia, liquid	N	N	N	N
Ammonia, aq. 20%	R	N	N	N
Ammonia salts, except fluoride	R	R	R	R
Ammonium fluoride, 25%	R	N	N	N
Amlyl acetate	R	N	N	N
Amlyl chloride	R	N	N	N
Aniline	N	N	N	N
Aniline hydrochloride	R	N	R	N
Antimony trichloride			R	N
Aqua regia			N	N
Arsenic Acid, 80%	L	N		N
Aryl-sulfonic acid	R	R	N	N
Barium salts	R	R	R	N
Beet sugar liquor	R	N		
Benzaldehyde, 10%			N	N
Benzaldehyde, 10 - 100%	N	N	N	N
Benzene (Benzoil)	L	N	N	N
Benzene sulfonic acid, 10%	R	R	R	N
Benzene sulfonic acid, 50%	R	N	N	N
Benzonic acid	R	R	R	N
Black liquor - paper	R	R	N	N
Bleach, 12.5% active chlorine	R	N	N	N
Bleach, 5.5% active chlorine	R	N	R	N
Borax	R	R	R	N
Boric Acid	R	N	R	N
Brine	R	N	R	R
Bromine acid, < 50%	R	N		N
Bromine, liquid 25%	N	N	N	N
Bromine, gas 25%	N	N	N	N
Bromine, aq	R	N		
Butane	R	R	R	R
Butanediol (eythriol)	R	R	R	R
Butanediol	R	R	N	N
Butyl Acetate	N	N		
Butyl phenol	N	N	N	N
Butyric acid, < 50%	R	R	N	N
Calcium hypochlorite	R	N	R	N
Calcium hypochlorite	R	N	R	N
Calcium hydroxide, 100%	R	R	R	N
Cane sugar liquors	R	L		
Carbon disulfide	N	N	N	N
Carbon dioxide	R	R	R	N
Carbon dioxide, aq.	R	R	R	R
Carbon monoxide	R	R	R	R
Carbon tetrachloride	R	N	N	N
Casein	R	R	R	R
Castor oil	R	N		
Caustic potash (KOH)	R	N	N	N
Caustic soda (NaOH)	R	N	N	N
Chlorine, gas, dry	R	R	R	N
Chlorine, gas, wet	N	R	N	N
Chlorine, liquid	N	N	N	N
Chlorine, water	R	R	N	N
Chlorocetic acid	R	N	N	N
Chlorobenzene	L	N	N	N
Chloroform	N	N	N	N
Chlorosulfonic acid, 10%	N	N	N	N
Chromic acid, 10%	R	N		
Chromic acid, 30%	N	N	N	N
Chromic acid, 40%	N	N	N	N
Chromic acid, 50%	N	N	N	N
Citric acid	R	R	R	N
Coconut oil	R	R	R	N
Copper salts, aq.	R	R	R	R
Cottonseed oil	R	R	R	R
Cresylic acid, 50%	N	N	N	N

Up to temperature °C	Vinylester		Isophthalic Polyester	
	49°	99°	49°	99°
Cyclohexane	R	N	R	R
Cyclohexanol	R	N	R	N
Cyclohexanone			N	N
Diesel fuels	R	R	R	N
Diethyl amine	N	N	N	N
Diocetyl phthalate	R	R	N	N
Dioxane - 1.4			N	N
Dimethylamine	N	N	N	N
Dimethyl formamide	N	N	N	N
Detergents, aq	R	R	R	R
Didutylphthalate	R	R	N	N
Didutylsebacate	R	N	R	R
Dichlorobenzene	R	N	N	N
Dichlorethylene	N	N	N	N
Ether (diethyl)	N	N	N	N
Ethyl halides	N	N	N	N
Ethylene halides	N	N	N	N
Ethylene glycol	R	R	R	R
Ethylene oxide	N	N	N	N
Fatty acids	R	R	R	R
Ferric salts	R	R	R	R
Fluorine, gas, dry	N	N	N	N
Fluorine, gas, wet	N	N	N	N
Fluoroboric acid, 25%	R	R	N	N
Fluorosilicic acid, 10%	R	N	N	N
Formaldehyde	R	N	R	N
Formic acid	L	N	N	N
Freon, F11, F12, 113, 114	N	N	N	N
Freon, F21, F22	N	N	N	N
Fruit Juices and pulps	N	N	R	N
Fuel oil	R	R	R	N
Furfural	N	N	N	N
Gas, natural, methane	R	N	R	N
Gasoline	R	L	R	N
Gelation	R	L	R	N
Glycerine (glycerol)	R	R	R	N
Glycols	R	R	R	R
Glycolic acid	L	N	R	N
Green Liquor - paper	R	N	N	N
Heptane	R	R	R	N
Hexane	R	N	R	N
Hydrobromic acid, 25%	R	N	R	N
Hydrochloric acid	R	R	R	N
Hydrofluoric acid, 10%	R	N	L	N
Hydrofluoric acid, 60%	N	N	N	N
Hydrofluoric acid, 100%	N	N	N	N
Hydrocyanic acid	R	R	N	N
Hydrogen peroxide, 50%			N	N
Hydrogen peroxide, 90%			N	N
Hydrogen sulfide, dry	R	R	R	N
Hydrazine	N	N	N	N
Hypochlorous acid, 10%	R	L	N	N
Jet fuels, JP 4 and JP 5	R	N	N	N
Kerosene	R	N	R	N
Lactic acid, 25%	R	R	R	N
Lauric acid	R	R	R	N
Lauryl chloride	R	R	R	N
Lauryl sulfate	R	R	R	N
Lead salth	R	R	R	R
Linoleic acid	R	R	R	N
Linseed oil	R	R	R	N
Lithium salth	R	R	R	N
Lubrication oils	R	N	R	N
Machine oil	R	N	R	N
Magnesium salts	R	R	R	R
Maleic acid	R	R	N	N
Manganese sulfate	R	R	R	N
Mercuric salts	R	R	R	N
Mercury	R	R	R	R
Methane	R	R	R	R
Methyl acetate	N	N	N	N
Methyl bromide (gas)	N	N	N	N
Methyl cellosolve			R	N
Methyl chloride	N	N	N	N
Methyl chloroform	N	N	N	N
Methyl cyclohexanone	N	N	N	N
Methyl methacrylate	N	N	N	N
Methylene bromide	N	N	N	N
Methylene chloride	N	N	N	N
Methylene iodide	N	N	N	N
Mineral oil	R	R	R	N
Molasses	R	N	R	N
Monochlorobenzene	L	N	N	N
Monoethanolamine	N	N	N	N
Motor oil	R	R	R	R
Naphtha	R	R	R	N
Napthalene	R	R	R	N
Nickel salts	R	R	R	R
Nitric acid, 0 to 20%	R	N	N	N

Up to temperature °C	Vinylester		Isophthalic Polyester	
	49°	99°	49°	99°
Nitric acid 21 to 100%	N	N	N	N
Nitric acid, fuming	N	N	N	N
Nitrobenzene	L	N	N	N
Nitrous acid	R	N	R	N
Oleic acid	R	R	R	R
Oleum	N	N	N	N
Olive oil	R	R	R	R
Oxalic acid		R	R	R
Ozone, gas, 5%	R	N	N	N
Palmitic acid, 10%	R	R	R	R
Palmitic acid, 70%	R	R	R	R
Paraffin	R	R	R	R
Pentane	R	N	R	N
Perchloric acid, 10%	R	N	N	N
Perchloric acid, 70%	R	N	N	N
Perchloroethylene	R	N	N	N
Petroleum, sour	R	R	R	N
Petroleum, refined	R	R	R	N
Phenol, 88%	N	N	N	N
Phenylcarbinol	N	N	N	N
Phenylhydrazine	N	N	N	N
Phosphoric acid	R	R	R	L
Phosphorous, yellow	N	N	N	N
Phosphorous, red	N	N	N	N
Phosphorous, trichloride	N	N	N	N
Phthalic acid	R	R		
Potassium salts, aq.	R	R	R	R
Potassium permanganate 25%	R	R	R	N
Propane	R	R	R	R
Propylene dichloride	N	N	N	N
Propylene glycol	R	R	R	N
Propylene oxide	N	N		
Pyridine	N	N	N	N
Rayon coagulating bath	R	N	N	N
Sea water	R	R	R	R
Salicylic acid	R	N	R	N
Sewage, residential	R	L	R	N
Silicic acid	R	R	R	N
Silicone oil	R	R	R	R
Silver salts	R	R	R	R
Soaps	R	R	R	R
Sodium hydroxide			N	N
Sodium salts, aq. except	R	R	R	R
Sodium chlorite 10%	R	N		
Sodium chlorate	R	R		
Sodium dichromate, acid	R	R		
Stannic chloride	R	R	R	N
Stannous chloride	R	R	R	R
Stearic acid	R	R	R	R
Sulfite liquor	R	R	R	N
Sulfur	R	R	R	N
Sugars, aq.			R	R
Sulfur dioxide, dry	R	R	R	R
Sulfur dioxide, wet	R	R	R	R
Sulfur trioxide, gas, dry	R	R	N	N
Sulfur trioxide, wet	N	N	N	N
Sulfuric acid, < 26%	R	R	R	N
Sulfuric acid, 26% to 80%	R	N	N	N
Sulfuric acid, 81% to 100%	N	N	N	N
Sulfurous acid, 10%	R	N	N	N
Tall oil	R	R	R	N
Tannic acid	R	R	R	R
Tartaric acid	R	R	R	R
Tetrachloroethane	R	N	N	N
Tetrahydrofuran	N	N	N	N
Thionyl chloride	N	N	N	N
Thread cutting oil	R	N	R	N
Terpineol	R	R	R	R
Toluene	R	N	R	N
Tributyl phosphate	R	N	N	N
Tricresyl phosphate	R	N	N	N
Trichloroacetic acid	R	R	N	N
Trichloroethylene	N	N	N	N
Triethanolamine	R	N	N	N
Triethylamine	R	N	N	N
Turpentine	R	R	N	N
Urea, 50%	R	N	R	N
Vaseline	R	R	N	R
Vegetable oils	N	R	N	R
Vinegar	R	R	R	N
Vinyl acetate	N	N	N	N
Water, distilled	R	R	R	N
Water, fresh	R	R	R	R
Water, mine	R	R	R	N
Water, salt	R	N	R	R
Water, tap	R	R	R	R
Whiskey	R	N	R	N
Wines	R	N	R	N
Xylene	R	N	N	N
Zinc salts	R	R	R	R

R=Resistant, N=Not resistant, L=Less resistant than R, but still suitable for some conditions



Comparison of Intech and Subsitude Products

Comparison of Intech Pultruded FRP Products vs others Products

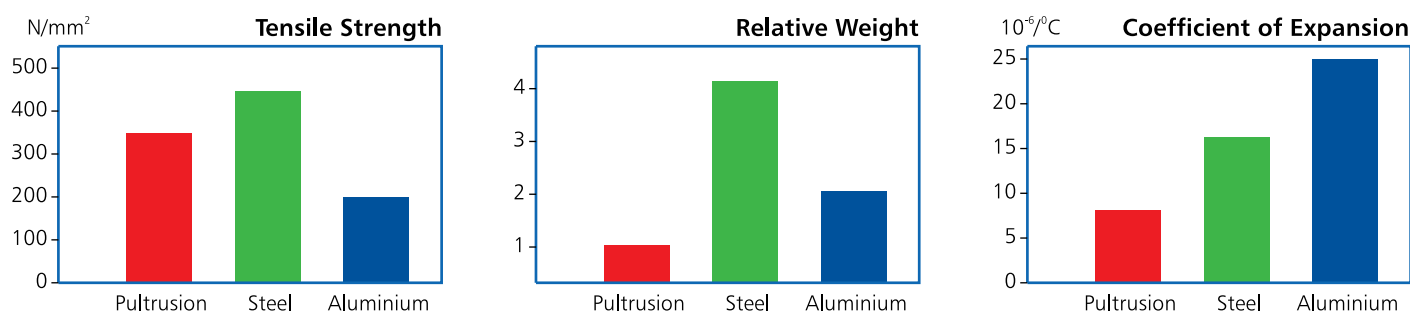
PROPERTY	INTECH Pultruded FRP PRODUCTS	Other FRP PRODUCTS	Mild Steel	Stainless Steel	ALUMINUM PRODUCTS.
Cost Effective	Extremely long life compare to other materials. Maintenance free.	Long life compare to other materials. Maintenance free.	Maintenance required.	Depend on application and grade.	Depend on application.
Flatness & Thickness Consistency	Pultusion is pultruded from heated die, therefore flatness is consistence even cut into smaller sizes. Thickness is even and consistent.	Production of FRP hand-lay products is based on the workmanship and has a high probability of uneven surfaces due to the production process.	Flatness and thickness is even and consistent.	Flatness and thickness is even and consistent.	Flatness and thickness is even and consistent.
Impact Resistance	Continuous strand glass mat in FRP Products distributes the impact load to prevent surface damage even under sub-zero temperature and will not permanently deform and stay flat for the life of the product under closed mold pultrusion processing. High in mechanical strength.	Chopped strand mat used in FRP hand-lay products will probably deform or crack under impact without going under the closed mold processing and pultrusion system. Low in mechanical strength.	Will permanently deform under impact and take a permanent set (dishing in trench application due to overloading). High in mechanical strength.	Will permanently deform under impact and take a permanent set (dishing in trench application due to overloading). High in mechanical strength.	Will permanently deform under impact and take a permanent set (dishing in trench application due to overloading). Low in mechanical strength.
Corrosion Resistant	Corrosion resistant under the most aggressive conditions	Corrosion resistant.	Non-corrosion resistant	Depends on grade. SS304 not recommended in off-shore. SS316 better corrosive resistant.	Corrosion resistant.
Safety	Electrically non-conductive and non-magnetic. Low in thermal conductivity. No sharp edges after cutting.	Electrically non-conductive. Low in thermal conductivity. No sharp edges after cutting.	Conductive. Grounding potential around electrical equipment. High in thermal conductivity. Sharp edges after cutting.	Conductive. Grounding potential around electrical equipment. High in thermal conductivity. Sharp edges after cutting.	Conductive. Grounding potential around electrical equipment. High in thermal conductivity. Sharp edges after cutting.
Fabrication	Produced in light weight and it can be shipped to the site or fabricated and installed on site with simple carpenter tools.	Produced in light weight and it can be shipped to the site or fabricated and installed on site with simple carpenter tools.	Require special blade, torch, and harder to cut it. Sometimes requires more manpower to move and place.	Require special blade, torch, and harder to cut it. Sometimes requires more manpower to move and place.	Require special blade, torch, and harder to cut it. Sometimes requires more manpower to move and place.
Vandalism	Totally no recycle value, and this will not encourage any theft or vandalism.	Totally no recycle value, and this will not encourage any theft or vandalism.	Mild steel products carry good recycle value.	Stainless steel products carry good recycle value.	Aluminum Products carry good recycle value.



Typical Properties of Pultrusion FRP Products

The information given is a guide to the typical properties of Pultruded Glass Reinforced Plastic sections. The pultruded profiles are made from a combination of continuous Logitudinal Rovings, Continuous Filament Mats and Resin, thus properties will vary depending on reinforcement and resin choice.

COMPARISONS



PROPERTIES

Mechanical:

Tensile Strength, Longitudinal:	250 - 350	N/mm ²
Flexural Stress, Longitudinal:	250 - 350	N/mm ²
Elastic Modulus, Flexural, Longitudinal:	15,000 - 30,000	N/mm ²
Compressive Strength:	150 - 300	N/mm ²
Impact Strength:	1 - 2	kJ/M
Elongation at Rupture	2	%
Hardness (Barcol 934-1):	40 - 60	
Specific Gravity:	1.7 - 1.9	

Electrical:

Dielectric Strength:	12	kV/mm
Volume Resistivity:	10 ¹⁰ - 10 ¹²	Ω/cm ²

Thermal:

Coefficient of Thermal Expansion:	8 - 10	10 ⁻⁶ /°K
Thermal Conductivity:	0.2 - 0.3	W/°K.M
Operating Temperature Range (Resin dependent):	-70 to +120	°C

Fire:

B.S.476	Class 1
ASTM E84	Class A (FSI < 25)
IEC 60695	960°C Max
UL 94	VO

Smoke:

ASTM E662	Ds at 1.5 min = 0.68
ASTM E84	Class A (SDI < 450)

Antistatic (optional)

BS EN 50014	2.27 MΩ
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Typical Applications



FRP Cable Ladder & Tray For Chemical Complex



FRP Cable Ladder & Tray For Offshore Platform



FRP Cable Ladder For Gas Processing Plant



FRP Cable Ladder & Tray For Offshore Platform

TYPICAL APPLICATIONS

INTECH products can be used in either new application or for replacing existing application which is exposed to corrosive environment. The application can be found in all type of industrial such as:-

- Offshore and Onshore
- Food
- Power Plants
- Electrical
- Pollution Control
- Water / Waste Treatment
- Recreation
- Public Facilities
- Government Properties
- Oil & Gas
- Chemical
- Marine
- District Cooling System



FRP cable ladder and tray for power station



Applications of other INTECH FRP Pultruded Products



FRP Cable Ladder & Tray & Grating for Offshore Platform



FRP Structural for Cooling Tower



FRP Protective Cover for 3rd rail



FRP Handrail and walkway



FRP Road side grating



FRP Heavy Duty Panel for Jetty



FRP Grating For Chemical Plant



FRP Cable Ladder & Tray, Grating for FPSO



Applications of other INTECH FRP Pultruded Products



FRP Structural for Cooling Tower



FRP Structural for Cooling Tower



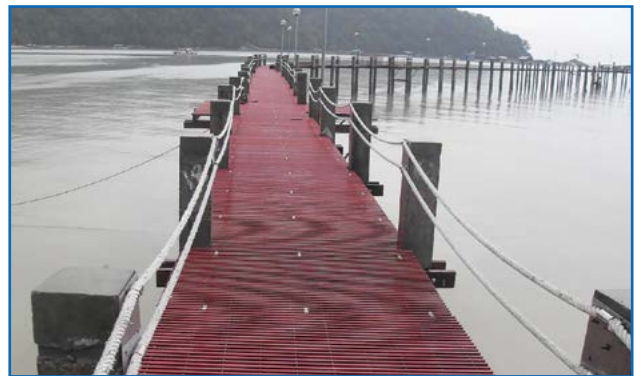
FRP Cable Ladder & Tray for Onshore Facilities



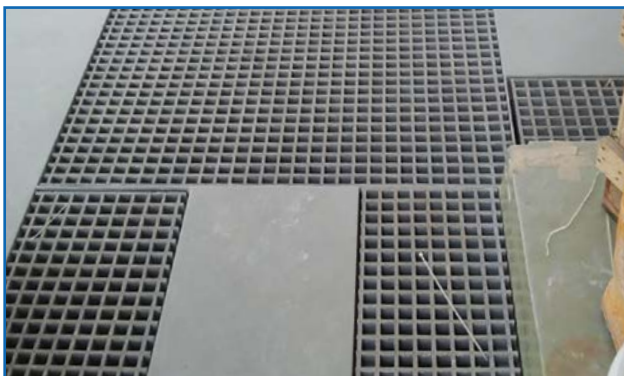
FRP Cable Ladder & Tray for Desalination Plant



FRP Grating for Floating Platform



FRP Grating for Jetty



FRP Grating for Sewerage Treatment Plant



FRP Grating for Rig Ship



Project Reference

(Note : Full list of job reference can be provided upon request)

INDUSTRY	PRODUCT GROUP	PROJECT NAME	END USER	YEAR	REGION
Offshore	LH series (NT)	Dai Hung 3	Vietsovpetro	2023	Vietnam
	LMH series	Shell Crux	Shell	2023	Singapore
	LH series (NT)	Zawtika Dev Phase 1D	PTTEP	2022	Thailand
	LSH series	SaoVang DaiNguyet	Petrovietnam	2020	Vietnam
Oil & Gas	LH series (NT)	Laffan Refinery 2	Qatargas	2016	Qatar
	LH series (NT)	JDA B-17 Field Phase 3 Development	CPOC	2016	Thailand
	LM series	Su Tu Trang Full Field Development	CLJOC	2015	Vietnam
	LMH series	Kanowit PFLNG Tir-in Project	Petronas	2015	Malaysia
	LMH series	South Pars Iran	NIOC	2014	Iran
Power & Utilities	LM series	Kimanis Power Plant Sabah	Petronas Gas	2022	Malaysia
	LMH series	Malakoff Prai Powerplant	Malakoff Corporation Berhad	2021	Malaysia
	Cable trough	Singapore Power NDC	Singapore power	2020	Singapore
	LM series	Jawa Power Plant	PT Perusahaan Listrik Negara (Persero)	2020	Indonesia
	Cable tray	Bang Pakong Hybrid	Electricity Generating Authority of Thailand (EGAT)	2019	Thailand
	LMH series	Al Madina Al Shamaliya (AMAS) STP	Ministry of Housing, Bahrain	2017	Bahrain
	LM series	Dubai Power Plant, UAE	Dubai Electricity & Water Authority (DEWA)	2017	UAE
	LM series	Victoria Desalination Plant	Victorian Government	2022	Australia
Mining	LE series	MCD Copper Gold Mining	Merdeka Copper Gold	2023	Indonesia
	LE series	Roy Hill Project	Hancock Prospecting Pty Ltd	2016	Australia
Renewable energy	LMH series	Hailong Offshore Windfarm	HaiLong	2022	Vietnam
Construction	Cable tray	LTA Singapore	Land Transport Authority (LTA) Singapore	2022	Singapore
Chemical / Petrochemical	Cable tray	Silica Plant	Petrotech	2022	Malaysia
	Cable tray	W R Grace Chemical Plant	W.R. Grace	2021	Malaysia
	Cable tray	Westport Fertilizer Plant	Westport	2020	Malaysia
	Cable tray	Diversatech Fertilizer Plant	Diversatech Fertilizer Sdn. Bhd.	2018	Malaysia
	Cable tray	PT Indah Kiat Pulp & Paper	PT Indah Kiat Pulp & Paper	2017	Indonesia
FPSO	LMH series	La Noumbi FPSO	Dixtone Holdings	2018	Singapore



Full Range of INTECH FRP Products

Assisting you to make a better choice from the best for your successful project with INTECH FRP composite industrial products.

INTECH GRATING & STAIRTREAD



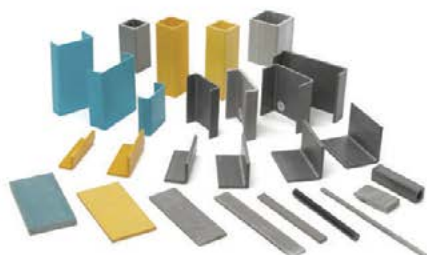
INTECH CABLE LADDER & CABLE TRAY



INTECH HANDRAIL & CAGED LADDER SYSTEM



INTECH STRUCTURAL SUPPORT SYSTEM



INTECH STRUCT CHANNEL



OTHER ARCHITECTURAL HAND-LAY UP PRODUCTS

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