VANTRUNK I-BEAM

SECTION 01.1:
I-BEAM
CABLE LADDER TRAY

Vantrunk’s I-Beam aluminum Cable Ladder Tray builds on our experience of supplying specialized, galvanized structural steel and stainless steel cable management and support systems to the Global Energy, Oil and Gas and Heavy Engineering sectors for over 50 years.

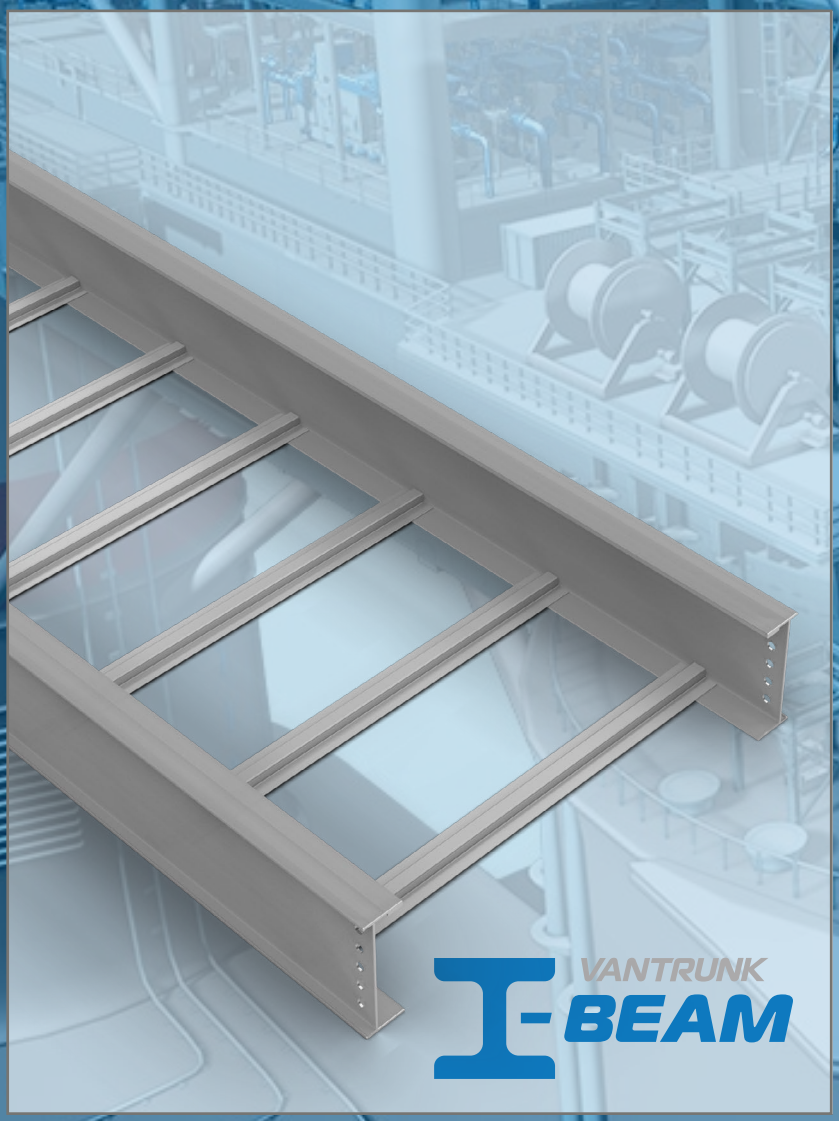
Vantrunk's product design philosophy is based on three core principles; strength, speed and environment. I-Beam aluminum Cable Ladder Tray conforms with this philosophy:

STRENGTH – The I-Shaped profile is highly effective in resisting bending, while areas of greater thickness at key points further increase the strength profile. Structural members are manufactured from high strength 6063-T6 alloy. I-Beam's enhanced strength allows it to be used over longer spans.

SPEED – I-Beam's suitability for longer spans means fewer joints are required. Straight Ladder and Fittings are light-weight, which improves the ease of handling and installation. These factors combined contribute to reduced installation time onsite.

ENVIRONMENT - The 6063-T6 alloy provides excellent corrosion resistance. A full range of System Types meeting NEMA Load Class Designations are available to suit loading and span requirements, please contact our Sales Team for further details.

VANTRUNK



VANTRUNK

I-BEAM

HOW TO ORDER

CODE SYSTEM EXPLAINED

The information given on these pages should be used as a guide when ordering I-Beam Cable Ladder Tray, Fittings and Accessories. For more detailed information and examples refer to the relevant page within the catalog.

I-Beam Straight Ladder

System Type					
Profile Type	Profile Rating	Length	Width	Material Configuration	Rung Spacing
e.g. IB6	- 20C	- SL240	- 12	- AL	- 9

I-Beam IB6, NEMA 20C, Straight Ladder 240" Long, 12" Wide, Standard Aluminum Configuration, 9" Rung Spacing

I-Beam Fittings

System Type					
Profile Type	Profile Rating	Fitting Type	Width	Radius	Material Configuration
e.g. IB5	- 12C	- FE90	- 6	- 12R	- AM

I-Beam IB5, NEMA 12C, Flat Elbow 90°, 6" Wide, 12" Radius, Marine Aluminum Configuration

I-Beam Couplers

System Type	Duty	Coupler Type	Material Configuration
e.g. IB	- HD	- CS	- AL

I-Beam, Heavy Duty, Coupler Straight, Standard Aluminum Configuration

I-Beam Accessories

System Type	Accessory Type	Accessory Length	Material Configuration
e.g. IB6	- DIV	- SL120	- AM

I-Beam IB6, Straight Ladder Divider, 120" Long, Marine Aluminum Configuration

PRODUCT ORDERING KEY

⬡ Select Material Configuration
θ Select Angle
AL Standard Aluminum Configuration
AM Marine Aluminum Configuration

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STRAIGHT LADDER

I-Beam Straight Cable Ladder Tray is available in standard widths of 6", 9", 12", 18", 24", 30" and 36".

I-Beam Straight Cable Ladder is available in 120", 144", 240" and 288" lengths.

All I-Beam straight ladders are pre-punched with dedicated coupling holes for use with a wide range of couplers to suit on-site installation requirements.

Rung spacing on straight ladders is at 9" as standard, with rung spacings of 6" and 12" available to order.

The I-Beam IB6-20C profile has been designed to meet NEMA 20C.

The I-Beam Cable Ladder Tray system has been independently tested and certified in accordance to NEMA VE-1, please contact our Sales team for further details.

Straight Length

LOADING TABLE

Span		Load	
(ft)	(m)	(lb/ft)	(kg/m)
12	3.7	289	430
16	4.9	163	242
18	5.5	128	190
20	6.0	104	154

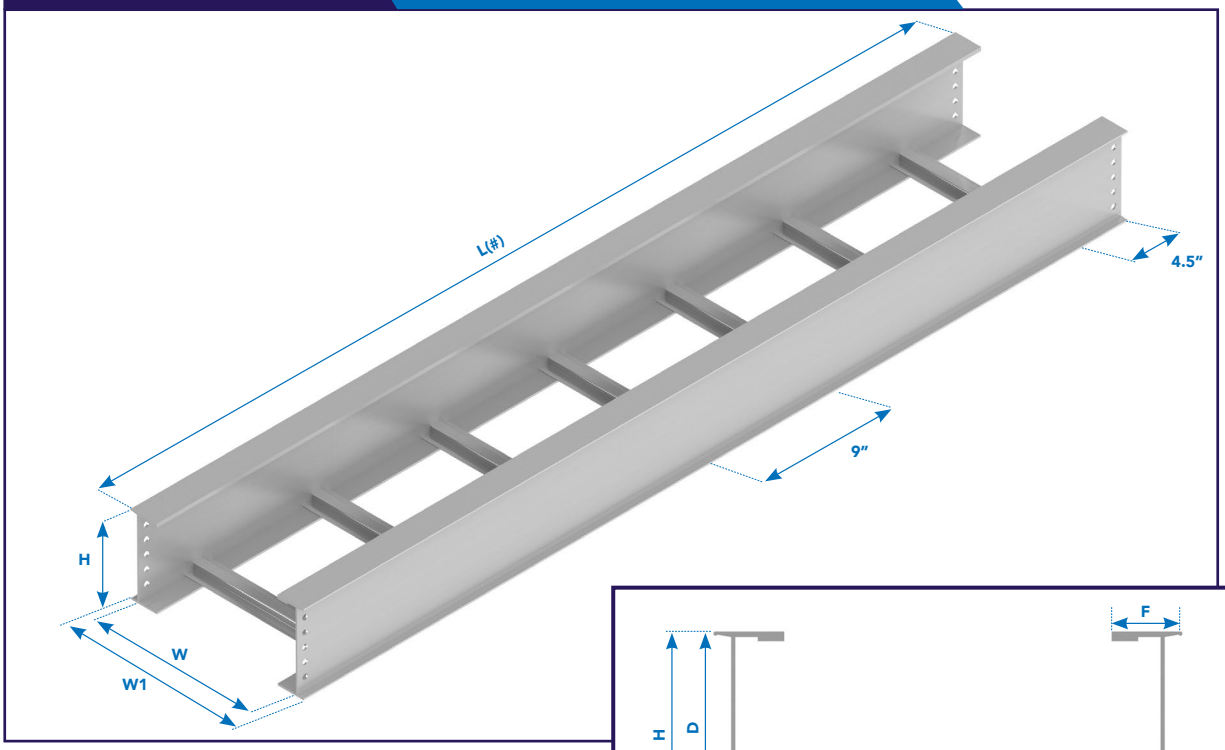
HOW TO ORDER

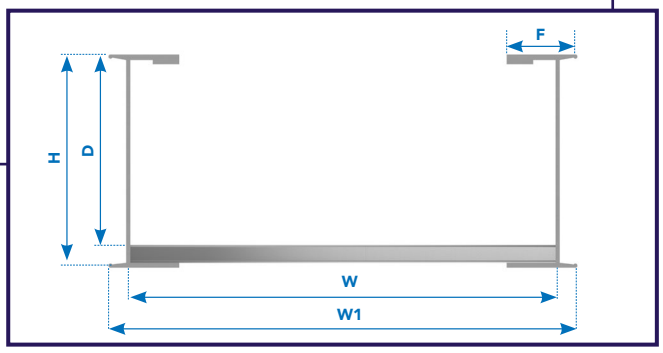
IB6 (Profile Type) - 20C (Profile Rating) - SL120 (Length) - 18 (Width) - AL (Material Configuration) - 12 (Rung Spacing)

I-Beam IB6-20C Cable Ladder Tray

I-Beam IB6-20C Cable Ladder Tray is manufactured in 120", 144", 240" and 288" lengths. The cable ladder tray is available in standard widths of 6", 9", 12", 18", 24", 30" and 36". Rung spacing is 9" as standard, with rung spacings of 6" and 12" available to order.

System Type: IB6-20C IB6-20C-SL#-WIDTH-⬡-RUNG SPACING





Part Number	Dimensions (")			
	W	W1	L	H
IB6-20C-SL#-6-AL-9	6	7	120 144 240 288	6
IB6-20C-SL#-9-AL-9	9	10		
IB6-20C-SL#-12-AL-9	12	13		
IB6-20C-SL#-18-AL-9	18	19		
IB6-20C-SL#-24-AL-9	24	25		
IB6-20C-SL#-30-AL-9	30	31		
IB6-20C-SL#-36-AL-9	36	37		

Height	H	6"
Loading Depth	D	5.4"
Ladder Width	W	6" to 36"
Overall Width	W1	W + 1"
Flange Width	F	2"

Supplied with:

FIXING SETS

Material Configurations:

AL AM

VANTRUNK I-BEAM

FITTINGS

The I-Beam Cable Ladder Tray fittings incorporate several features which enhance the system's ease of installation.

Vantrunk's I-Beam Cable Ladder fittings feature the same profile as the straight length, this ensures continuous installation and enhanced system integrity.

Radius sections in the Vantrunk I-Beam range of fittings have a repeatable and true radius which eliminates the traditional "make it fit" approach during installation.

Vantrunk I-Beam fittings are manufactured and tested in accordance with NEMA VE-1 and are classified by UL as an equipment grounding conductor.

VANTRUNK I-BEAM

FLAT ELBOWS

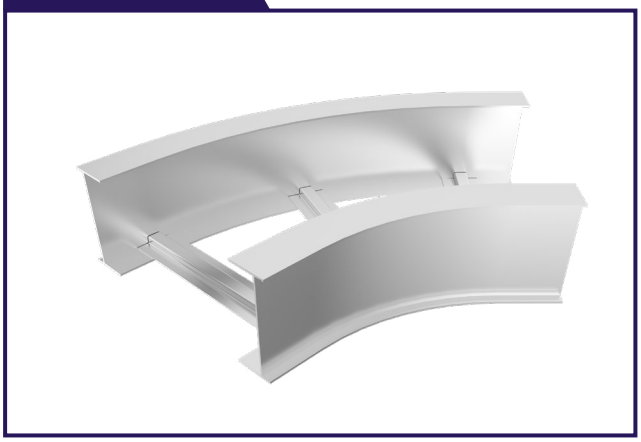
Flat Elbows (FE) are designed to create fixed angular coplanar connections between horizontal cable runs (cable ladder installed in horizontal plane) and between vertical cable runs (cable ladder installed in vertical plane).

All Flat Elbows are manufactured and tested in accordance with NEMA VE-1.

Rung spacing for all Flat Elbows is 9" as standard.

Flat Elbows are also available in angles of 30° and 60°.

45° Flat Elbow



90° Flat Elbow

HOW TO ORDER

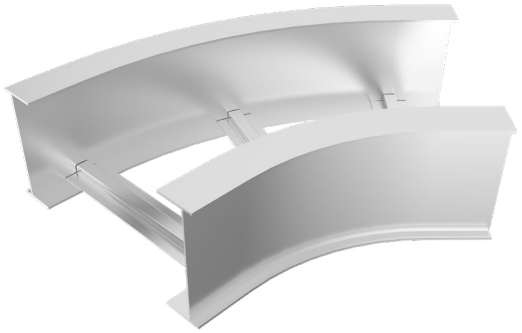
IB6 - 20C - FE90 - 18 - 12R - AL

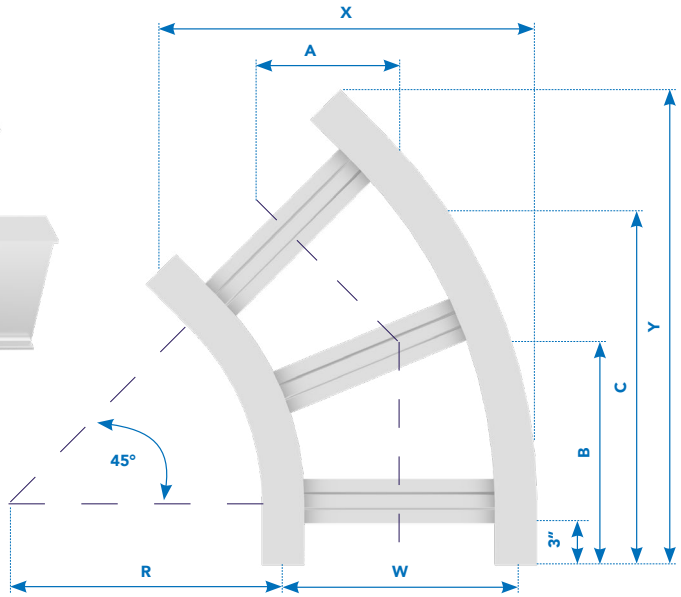
Profile Type - Profile Rating - Fitting Type - Width - Radius - Material Configuration

I-Beam 45° Flat Elbow

VANTRUNK I-BEAM

Fitting Type: FE45 | **IB6-20C-FE45-WIDTH-RADIUS-⬡**





Part Number	Dimensions (")						
	W	R	A	B	C	X	Y
IB6-20C-FE45-6-12R-⬡	6	12	7	9	16	12	18
IB6-20C-FE45-9-12R-⬡	9	12	7	10	17	15	20
IB6-20C-FE45-12-12R-⬡	12	12	7	10	18	18	22
IB6-20C-FE45-18-12R-⬡	18	12	8	12	20	24	27
IB6-20C-FE45-24-12R-⬡	24	12	9	13	22	30	31
IB6-20C-FE45-30-12R-⬡	30	12	10	14	24	36	35
IB6-20C-FE45-36-12R-⬡	36	12	11	15	26	42	39
IB6-20C-FE45-6-24R-⬡	6	24	10	14	24	16	27
IB6-20C-FE45-9-24R-⬡	9	24	10	15	25	19	29
IB6-20C-FE45-12-24R-⬡	12	24	11	15	26	22	31
IB6-20C-FE45-18-24R-⬡	18	24	12	17	28	28	35
IB6-20C-FE45-24-24R-⬡	24	24	13	18	31	34	39
IB6-20C-FE45-30-24R-⬡	30	24	14	19	33	40	44
IB6-20C-FE45-36-24R-⬡	36	24	14	20	35	46	48
IB6-20C-FE45-6-36R-⬡	6	36	14	19	33	20	35
IB6-20C-FE45-9-36R-⬡	9	36	14	20	34	23	37
IB6-20C-FE45-12-36R-⬡	12	36	14	20	35	26	39
IB6-20C-FE45-18-36R-⬡	18	36	15	22	37	32	44
IB6-20C-FE45-24-36R-⬡	24	36	16	23	39	38	48
IB6-20C-FE45-30-36R-⬡	30	36	17	24	41	44	52
IB6-20C-FE45-36-36R-⬡	36	36	18	25	43	50	56

Supplied with:

FIXING SETS

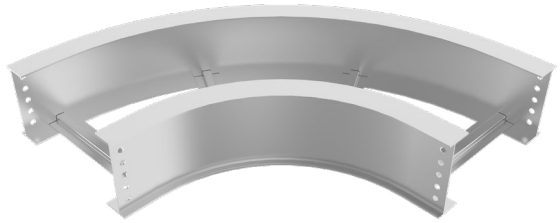
Material Configurations:

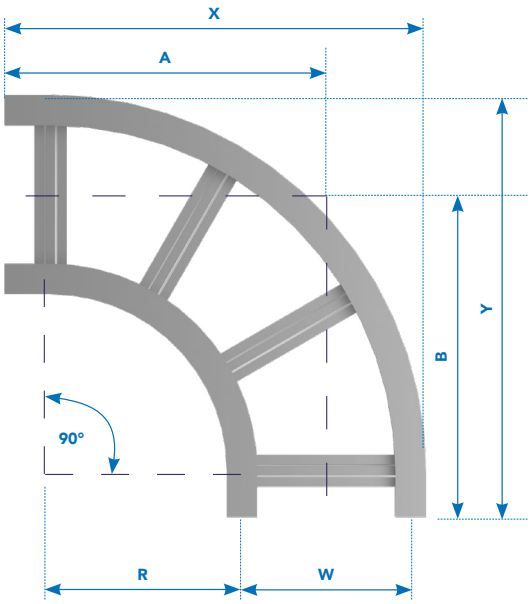
AL AM

I-Beam 90° Flat Elbow

VANTRUNK I-BEAM

Fitting Type: FE90 | **IB6-20C-FE90-WIDTH-RADIUS-⬡**





Part Number	Dimensions (")					
	W	R	A	B	X	Y
IB6-20C-FE90-6-12R-⬡	6	12	18	18	22	22
IB6-20C-FE90-9-12R-⬡	9	12	20	20	25	25
IB6-20C-FE90-12-12R-⬡	12	12	21	21	28	28
IB6-20C-FE90-18-12R-⬡	18	12	24	24	34	34
IB6-20C-FE90-24-12R-⬡	24	12	27	27	40	40
IB6-20C-FE90-30-12R-⬡	30	12	30	30	46	46
IB6-20C-FE90-36-12R-⬡	36	12	33	33	52	52
IB6-20C-FE90-6-24R-⬡	6	24	30	30	34	34
IB6-20C-FE90-9-24R-⬡	9	24	32	32	37	37
IB6-20C-FE90-12-24R-⬡	12	24	33	33	40	40
IB6-20C-FE90-18-24R-⬡	18	24	36	36	46	46
IB6-20C-FE90-24-24R-⬡	24	24	39	39	52	52
IB6-20C-FE90-30-24R-⬡	30	24	42	42	58	58
IB6-20C-FE90-36-24R-⬡	36	24	45	45	64	64
IB6-20C-FE90-6-36R-⬡	6	36	42	42	46	46
IB6-20C-FE90-9-36R-⬡	9	36	44	44	49	49
IB6-20C-FE90-12-36R-⬡	12	36	45	45	52	52
IB6-20C-FE90-18-36R-⬡	18	36	48	48	58	58
IB6-20C-FE90-24-36R-⬡	24	36	51	51	64	64
IB6-20C-FE90-30-36R-⬡	30	36	54	54	70	70
IB6-20C-FE90-36-36R-⬡	36	36	57	57	76	76

Supplied with:

FIXING SETS

Material Configurations:

AL AM

VANTRUNK I-BEAM

INSIDE & OUTSIDE RISERS

Inside Risers (IR) and Outside Risers (OR) are designed to create fixed angular non-coplanar connections between cable runs and can be used in both vertical and horizontal orientations.

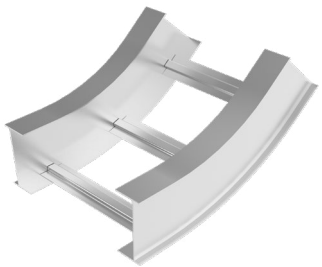
All Risers are manufactured and tested in accordance with NEMA VE-1.

Rung spacing for all Risers is 9" as standard.

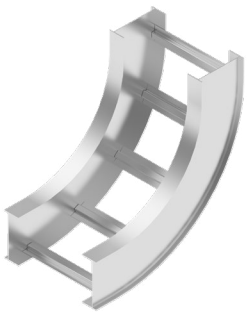
Inside and Outside Risers are also available in angles of 30° and 60°.

I-Beam Inside Risers (or vertical inside bends) create internal changes in direction; Outside Risers (or vertical outside bends) create external changes in direction.

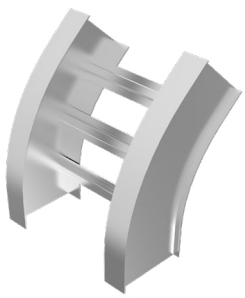
45° Inside Riser



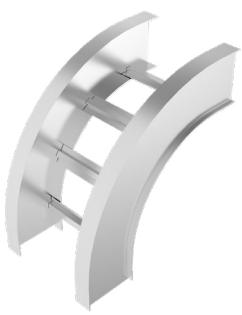
90° Inside Riser



45° Outside Riser



90° Outside Riser



HOW TO ORDER

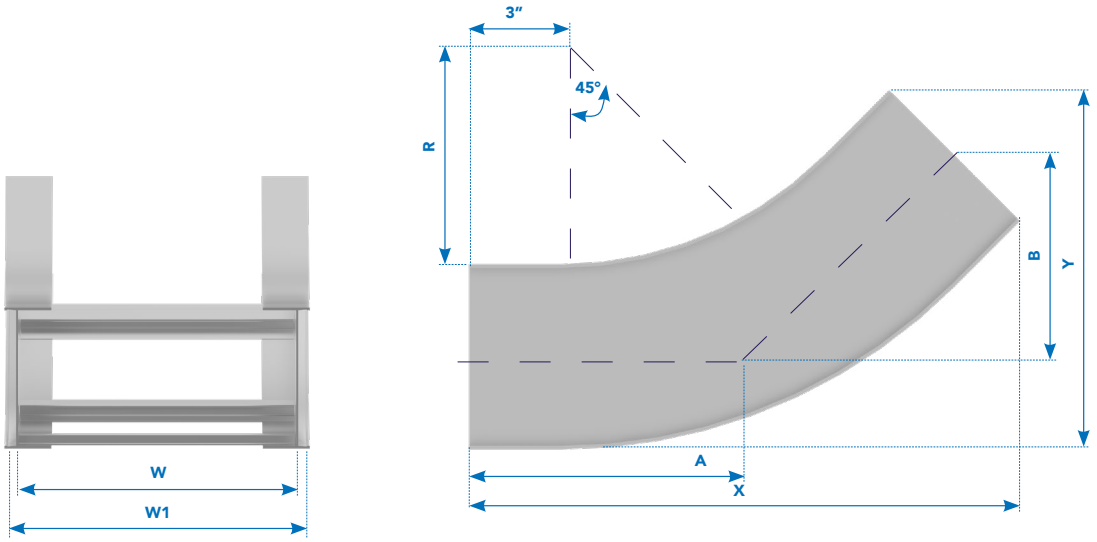
IB6 (Profile Type) - 20C (Profile Rating) - IR30 (Fitting Type) - 6 (Width) - 12R (Radius) - AL (Material Configuration)

I-Beam 45° Inside Risers

VANTRUNK I-BEAM

Fitting Type: IR45

IB6-20C-IR45-WIDTH-RADIUS-⬡



Part Number	Dimensions (")						
	W	W1	R	A	B	X	Y
IB6-20C-IR45-6-12R-⬡	6	7	12	7	9	13	16
IB6-20C-IR45-9-12R-⬡	9	10	12	7	9	13	16
IB6-20C-IR45-12-12R-⬡	12	13	12	7	9	13	16
IB6-20C-IR45-18-12R-⬡	18	19	12	7	9	13	16
IB6-20C-IR45-24-12R-⬡	24	25	12	7	9	13	16
IB6-20C-IR45-30-12R-⬡	30	31	12	7	9	13	16
IB6-20C-IR45-36-12R-⬡	36	37	12	7	9	13	16
IB6-20C-IR45-6-24R-⬡	6	7	24	11	14	16	24
IB6-20C-IR45-9-24R-⬡	9	10	24	11	14	16	24
IB6-20C-IR45-12-24R-⬡	12	13	24	11	14	16	24
IB6-20C-IR45-18-24R-⬡	18	19	24	11	14	16	24
IB6-20C-IR45-24-24R-⬡	24	25	24	11	14	16	24
IB6-20C-IR45-30-24R-⬡	30	31	24	11	14	16	24
IB6-20C-IR45-36-24R-⬡	36	37	24	11	14	16	24
IB6-20C-IR45-6-36R-⬡	6	7	36	14	19	20	33
IB6-20C-IR45-9-36R-⬡	9	10	36	14	19	20	33
IB6-20C-IR45-12-36R-⬡	12	13	36	14	19	20	33
IB6-20C-IR45-18-36R-⬡	18	19	36	14	19	20	33
IB6-20C-IR45-24-36R-⬡	24	25	36	14	19	20	33
IB6-20C-IR45-30-36R-⬡	30	31	36	14	19	20	33
IB6-20C-IR45-36-36R-⬡	36	37	36	14	19	20	33

Supplied with:

FIXING SETS

Material Configurations:

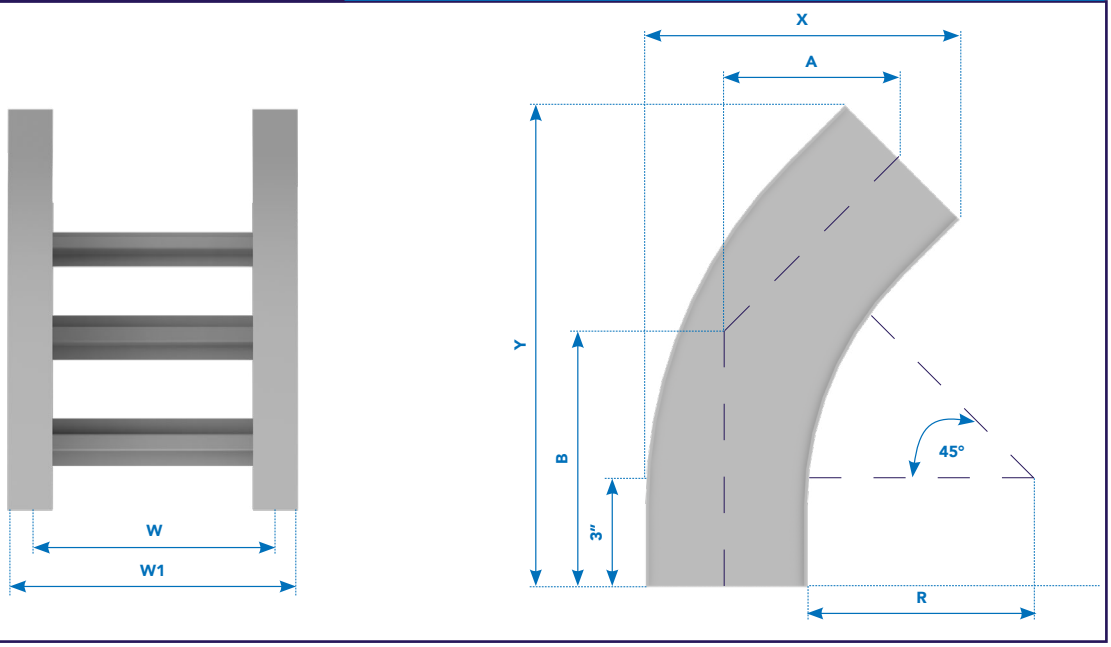
AL AM

I-Beam 45° Outside Risers

VANTRUNK I-BEAM

Fitting Type: OR45

IB6-20C-OR45-WIDTH-RADIUS-⬡



Part Number	Dimensions (")						
	W	W1	R	A	B	X	Y
IB6-20C-OR45-6-12R-⬡	6	7	12	7	9	13	16
IB6-20C-OR45-9-12R-⬡	9	10	12	7	9	13	16
IB6-20C-OR45-12-12R-⬡	12	13	12	7	9	13	16
IB6-20C-OR45-18-12R-⬡	18	19	12	7	9	13	16
IB6-20C-OR45-24-12R-⬡	24	25	12	7	9	13	16
IB6-20C-OR45-30-12R-⬡	30	31	12	7	9	13	16
IB6-20C-OR45-36-12R-⬡	36	37	12	7	9	13	16
IB6-20C-OR45-6-24R-⬡	6	7	24	11	14	16	24
IB6-20C-OR45-9-24R-⬡	9	10	24	11	14	16	24
IB6-20C-OR45-12-24R-⬡	12	13	24	11	14	16	24
IB6-20C-OR45-18-24R-⬡	18	19	24	11	14	16	24
IB6-20C-OR45-24-24R-⬡	24	25	24	11	14	16	24
IB6-20C-OR45-30-24R-⬡	30	31	24	11	14	16	24
IB6-20C-OR45-36-24R-⬡	36	37	24	11	14	16	24
IB6-20C-OR45-6-36R-⬡	6	7	36	14	19	20	33
IB6-20C-OR45-9-36R-⬡	9	10	36	14	19	20	33
IB6-20C-OR45-12-36R-⬡	12	13	36	14	19	20	33
IB6-20C-OR45-18-36R-⬡	18	19	36	14	19	20	33
IB6-20C-OR45-24-36R-⬡	24	25	36	14	19	20	33
IB6-20C-OR45-30-36R-⬡	30	31	36	14	19	20	33
IB6-20C-OR45-36-36R-⬡	36	37	36	14	19	20	33

Supplied with:

FIXING SETS

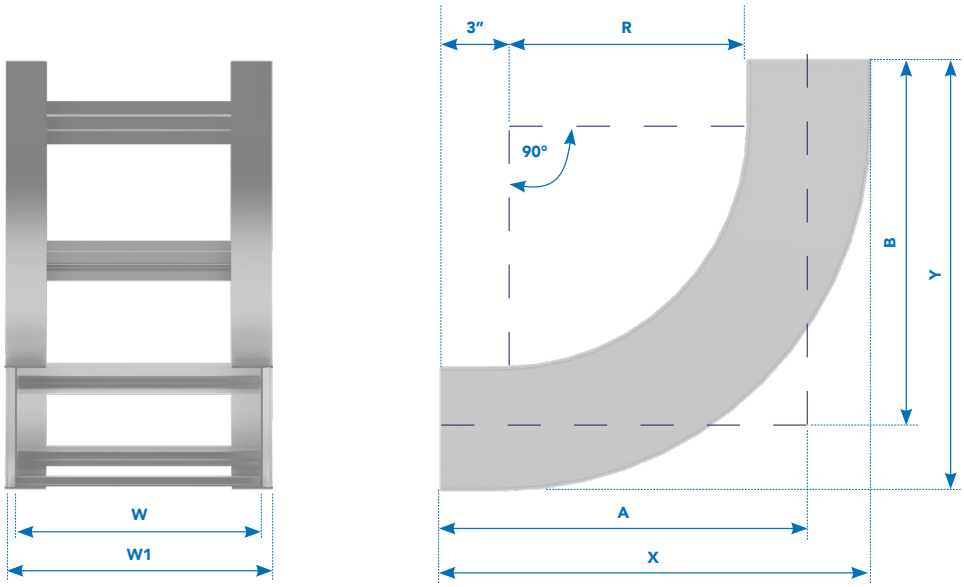
Material Configurations:

AL AM

I-Beam 90° Inside Risers

Fitting Type: IR90

IB6-20C-IR90-WIDTH-RADIUS-⬡



Part Number	Dimensions (")						
	W	W1	R	A	B	X	Y
IB6-20C-IR90-6-12R-⬡	6	7	12	18	18	21	21
IB6-20C-IR90-9-12R-⬡	9	10	12	18	18	21	21
IB6-20C-IR90-12-12R-⬡	12	13	12	18	18	21	21
IB6-20C-IR90-18-12R-⬡	18	19	12	18	18	21	21
IB6-20C-IR90-24-12R-⬡	24	25	12	18	18	21	21
IB6-20C-IR90-30-12R-⬡	30	31	12	18	18	21	21
IB6-20C-IR90-36-12R-⬡	36	37	12	18	18	21	21
IB6-20C-IR90-6-24R-⬡	6	7	24	30	30	33	33
IB6-20C-IR90-9-24R-⬡	9	10	24	30	30	33	33
IB6-20C-IR90-12-24R-⬡	12	13	24	30	30	33	33
IB6-20C-IR90-18-24R-⬡	18	19	24	30	30	33	33
IB6-20C-IR90-24-24R-⬡	24	25	24	30	30	33	33
IB6-20C-IR90-30-24R-⬡	30	31	24	30	30	33	33
IB6-20C-IR90-36-24R-⬡	36	37	24	30	30	33	33
IB6-20C-IR90-6-36R-⬡	6	7	36	42	42	45	45
IB6-20C-IR90-9-36R-⬡	9	10	36	42	42	45	45
IB6-20C-IR90-12-36R-⬡	12	13	36	42	42	45	45
IB6-20C-IR90-18-36R-⬡	18	19	36	42	42	45	45
IB6-20C-IR90-24-36R-⬡	24	25	36	42	42	45	45
IB6-20C-IR90-30-36R-⬡	30	31	36	42	42	45	45
IB6-20C-IR90-36-36R-⬡	36	37	36	42	42	45	45

Supplied with:

FIXING SETS

Material Configurations:

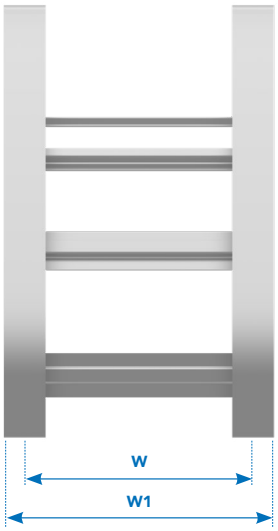
AL AM

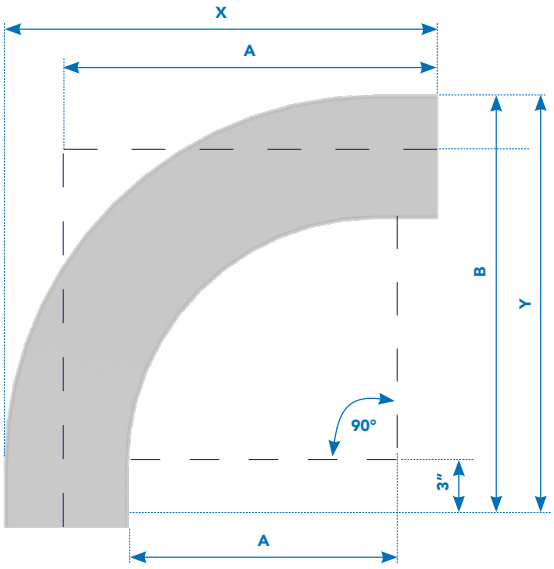
I-Beam 90° Outside Risers

VANTRUNK I-BEAM

Fitting Type: OR90

IB6-20C-OR90-WIDTH-RADIUS-⬡





Part Number	Dimensions (")						
	W	W1	R	A	B	X	Y
IB6-20C-OR90-6-12R-⬡	6	7	12	18	18	21	21
IB6-20C-OR90-9-12R-⬡	9	10	12	18	18	21	21
IB6-20C-OR90-12-12R-⬡	12	13	12	18	18	21	21
IB6-20C-OR90-18-12R-⬡	18	19	12	18	18	21	21
IB6-20C-OR90-24-12R-⬡	24	25	12	18	18	21	21
IB6-20C-OR90-30-12R-⬡	30	31	12	18	18	21	21
IB6-20C-OR90-36-12R-⬡	36	37	12	18	18	21	21
IB6-20C-OR90-6-24R-⬡	6	7	24	30	30	33	33
IB6-20C-OR90-9-24R-⬡	9	10	24	30	30	33	33
IB6-20C-OR90-12-24R-⬡	12	13	24	30	30	33	33
IB6-20C-OR90-18-24R-⬡	18	19	24	30	30	33	33
IB6-20C-OR90-24-24R-⬡	24	25	24	30	30	33	33
IB6-20C-OR90-30-24R-⬡	30	31	24	30	30	33	33
IB6-20C-OR90-36-24R-⬡	36	37	24	30	30	33	33
IB6-20C-OR90-6-36R-⬡	6	7	36	42	42	45	45
IB6-20C-OR90-9-36R-⬡	9	10	36	42	42	45	45
IB6-20C-OR90-12-36R-⬡	12	13	36	42	42	45	45
IB6-20C-OR90-18-36R-⬡	18	19	36	42	42	45	45
IB6-20C-OR90-24-36R-⬡	24	25	36	42	42	45	45
IB6-20C-OR90-30-36R-⬡	30	31	36	42	42	45	45
IB6-20C-OR90-36-36R-⬡	36	37	36	42	42	45	45

Supplied with:

FIXING SETS

Material Configurations:

AL AM

VANTRUNK I-BEAM

EQUAL TEES

Equal Tees (ET) are designed to create perpendicular coplanar connections between horizontal cable runs (ladder installed in horizontal plane) and between vertical cable runs (ladder installed in vertical plane).

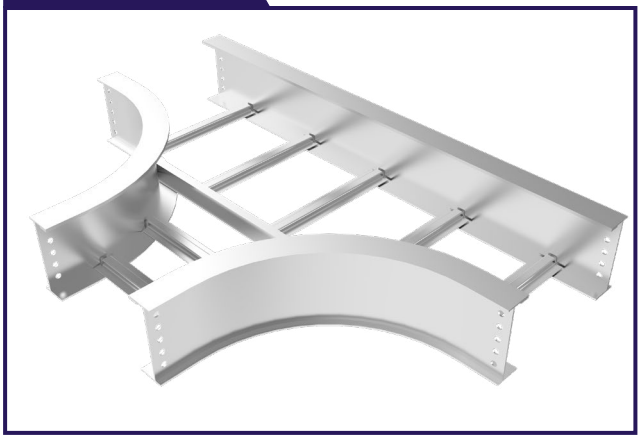
All Equal Tees are manufactured and tested in accordance with NEMA VE-1.

Rung spacing for all Equal Tees is 9" as standard.

Unequal Tees are also available.

Tees have a primary or main width (Wm) and a secondary or branch width (Wb). Tees with the same primary and secondary widths are called equal tees.

Equal Tee

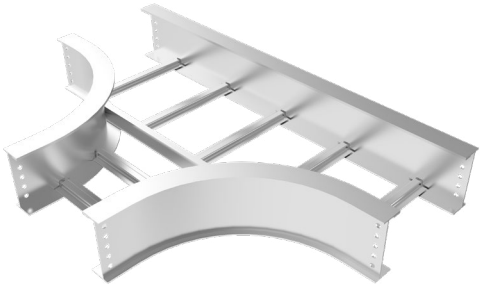


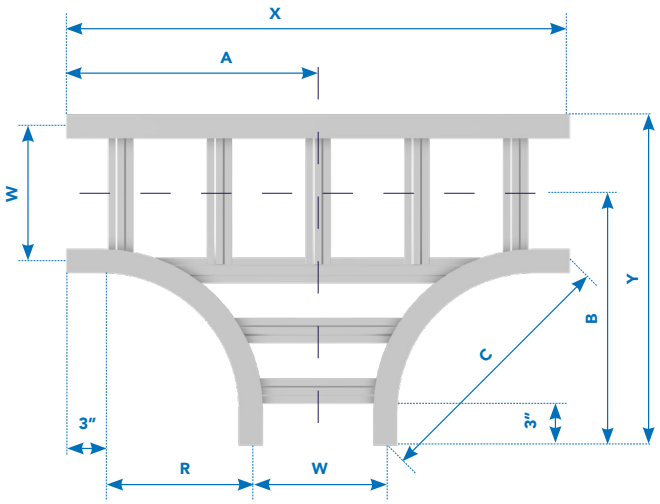
HOW TO ORDER

IB6	-	20C	-	ET	-	12	-	36R	-	AM
Profile Type		Profile Rating		Fitting Type		Width		Radius		Material Configuration

I-Beam Tees

Fitting Type: ET | **IB6-20C-ET-WIDTH-RADIUS-⬡**





Part Number	Dimensions (")						
	W	R	A	B	C	X	Y
IB6-20C-ET-6-12R-⬡	6	12	18	18	21	36	22
IB6-20C-ET-9-12R-⬡	9	12	20	19.5	21	39	25
IB6-20C-ET-12-12R-⬡	12	12	21	21	21	42	28
IB6-20C-ET-18-12R-⬡	18	12	24	24	21	48	34
IB6-20C-ET-24-12R-⬡	24	12	27	27	21	54	40
IB6-20C-ET-30-12R-⬡	30	12	30	30	21	60	46
IB6-20C-ET-36-12R-⬡	36	12	33	33	21	66	52
IB6-20C-ET-6-24R-⬡	6	24	30	30	38	60	34
IB6-20C-ET-9-24R-⬡	9	24	32	31.5	38	63	37
IB6-20C-ET-12-24R-⬡	12	24	33	33	38	66	40
IB6-20C-ET-18-24R-⬡	18	24	36	36	38	72	46
IB6-20C-ET-24-24R-⬡	24	24	39	39	38	78	52
IB6-20C-ET-30-24R-⬡	30	24	42	42	38	84	58
IB6-20C-ET-36-24R-⬡	36	24	45	45	38	90	64
IB6-20C-ET-6-36R-⬡	6	36	42	42	55	84	46
IB6-20C-ET-9-36R-⬡	9	36	44	43.5	55	87	49
IB6-20C-ET-12-36R-⬡	12	36	45	45	55	90	52
IB6-20C-ET-18-36R-⬡	18	36	48	48	55	96	58
IB6-20C-ET-24-36R-⬡	24	36	51	51	55	102	64
IB6-20C-ET-30-36R-⬡	30	36	54	54	55	108	70
IB6-20C-ET-36-36R-⬡	36	36	57	57	55	114	76

Supplied with:

FIXING SETS

Material Configurations:

AL AM

VANTRUNK I-BEAM

EQUAL CROSSES

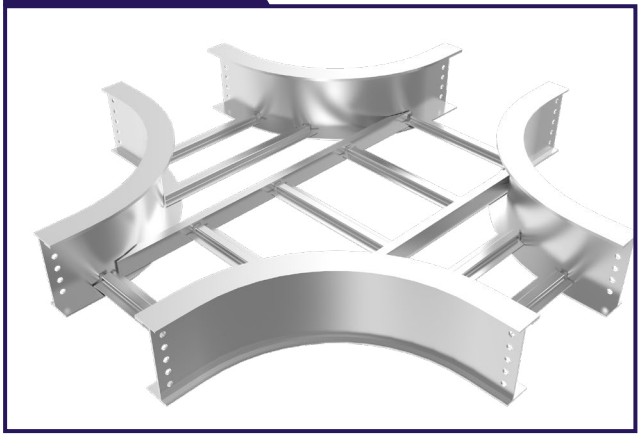
Equal Crosses (EC) are designed to create intersecting coplanar connections between horizontal cable runs (ladder installed in horizontal plane) and between vertical cable runs (ladder installed in vertical plane).

All Equal Crosses are manufactured and tested in accordance with NEMA VE-1.

Rung spacing for all Equal Crosses is 9" as standard.

Equal Crosses, where the branches have identical widths, are supplied as standard. Consult our Sales Team on the availability of non-standard crosses where differing branch widths and differing radii are required to suit specific installation requirements.

Equal Cross

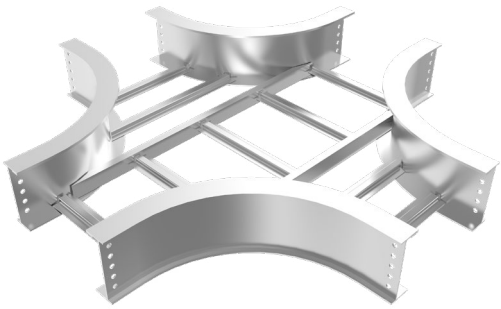


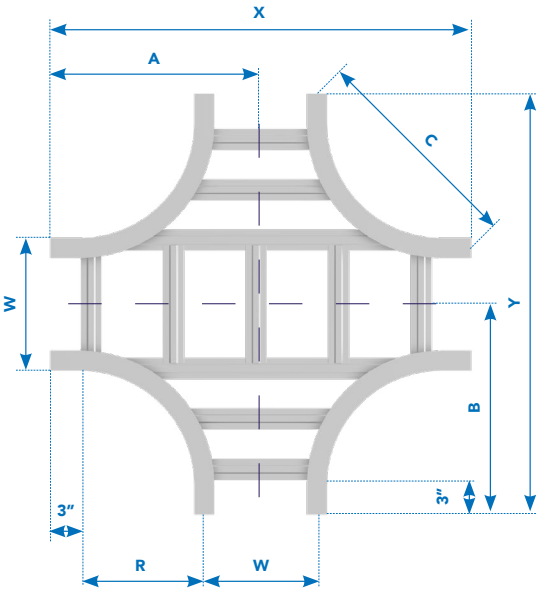
HOW TO ORDER

IB6	-	20C	-	EC	-	36	-	12R	-	AM
Profile Type		Profile Rating		Fitting Type		Width		Radius		Material Configuration

I-Beam Equal Cross

Fitting Type: EC | **IB6-20C-EC-WIDTH-RADIUS-⬡**





Part Number	Dimensions (")						
	W	R	A	B	C	X	Y
IB6-20C-EC-6-12R-⬡	6	12	18	18	21	36	36
IB6-20C-EC-9-12R-⬡	9	12	20	20	21	39	39
IB6-20C-EC-12-12R-⬡	12	12	21	21	21	42	42
IB6-20C-EC-18-12R-⬡	18	12	24	24	21	48	48
IB6-20C-EC-24-12R-⬡	24	12	27	27	21	54	54
IB6-20C-EC-30-12R-⬡	30	12	30	30	21	60	60
IB6-20C-EC-36-12R-⬡	36	12	33	33	21	66	66
IB6-20C-EC-6-24R-⬡	6	24	30	30	38	60	60
IB6-20C-EC-9-24R-⬡	9	24	32	32	38	63	63
IB6-20C-EC-12-24R-⬡	12	24	33	33	38	66	66
IB6-20C-EC-18-24R-⬡	18	24	36	36	38	72	72
IB6-20C-EC-24-24R-⬡	24	24	39	39	38	78	78
IB6-20C-EC-30-24R-⬡	30	24	42	42	38	84	84
IB6-20C-EC-36-24R-⬡	36	24	45	45	38	90	90
IB6-20C-EC-6-36R-⬡	6	36	42	42	55	84	84
IB6-20C-EC-9-36R-⬡	9	36	44	44	55	87	87
IB6-20C-EC-12-36R-⬡	12	36	45	45	55	90	90
IB6-20C-EC-18-36R-⬡	18	36	48	48	55	96	96
IB6-20C-EC-24-36R-⬡	24	36	51	51	55	102	102
IB6-20C-EC-30-36R-⬡	30	36	54	54	55	108	108
IB6-20C-EC-36-36R-⬡	36	36	57	57	55	114	114

Supplied with:

FIXING SETS

Material Configurations:

AL AM

VANTRUNK I-BEAM

REDUCERS - STRAIGHT, LEFT & RIGHT

Reducers are used to create coplanar reductions in widths between adjoining straight ladders and between straight ladders and fittings of the same ladder type.

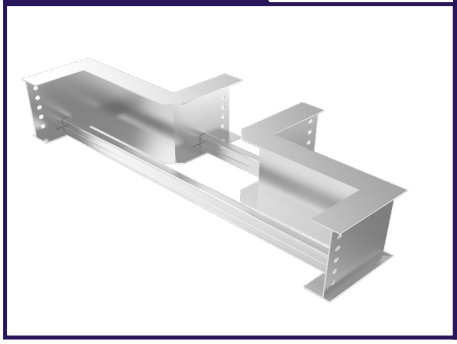
All Reducers are manufactured and tested in accordance with NEMA VE-1.

Rung spacing for all Reducers is 9" as standard.

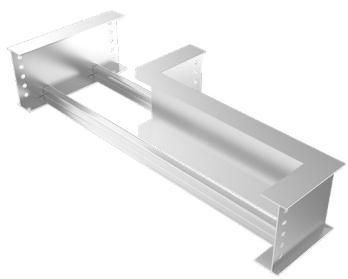
I-Beam Straight Reducers (RS reducer straight) are used to create a concentric reduction, having an equal width reduction along both sides. Left hand reducers (RL reducer left) and right hand reducers (RR reducer right) are used to create offset reductions to suit particular installation requirements. Left hand reducers have the width reduction on the left when viewed from the primary width.
Right hand reducers have the width reduction on the right when viewed from the primary width.

All I-Beam Reducers are an overall length of 12" and feature two rungs as standard.

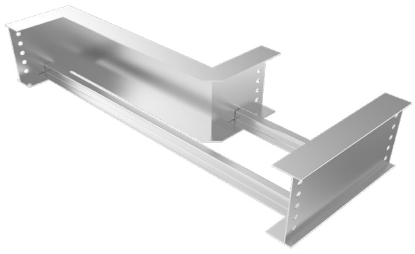
Reducer Straight



Reducer Left



Reducer Right

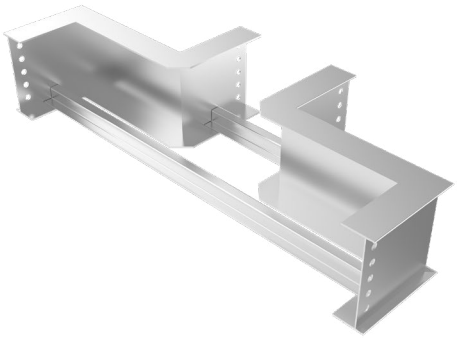


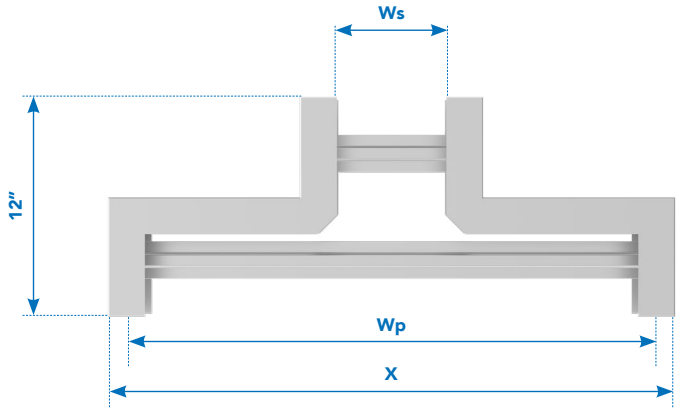
HOW TO ORDER

IB6	-	20C	-	RR	-	9	-	6	-	AL
Profile Type		Profile Rating		Fitting Type		Width Prim.		Width Sec.		Material Configuration

I-Beam Reducers - Straight

Fitting Type: RS | **IB6-20C-RS-WIDTH PRIM.-WIDTH SEC.-⬡**





Part Number	Dimensions (")		
	Wp	Ws	X
IB6-20C-RS-9-6- ⬡	9	6	10
IB6-20C-RS-12-6- ⬡	12	6	13
IB6-20C-RS-12-9- ⬡	12	9	13
IB6-20C-RS-18-6- ⬡	18	6	19
IB6-20C-RS-18-9- ⬡	18	9	19
IB6-20C-RS-18-12-⬡	18	12	19
IB6-20C-RS-24-6- ⬡	24	6	25
IB6-20C-RS-24-9- ⬡	24	9	25
IB6-20C-RS-24-12-⬡	24	12	25
IB6-20C-RS-24-18-⬡	24	18	25
IB6-20C-RS-30-6- ⬡	30	6	31
IB6-20C-RS-30-9- ⬡	30	9	31
IB6-20C-RS-30-12-⬡	30	12	31
IB6-20C-RS-30-18-⬡	30	18	31
IB6-20C-RS-30-24-⬡	30	24	31
IB6-20C-RS-36-6- ⬡	36	6	37
IB6-20C-RS-36-9- ⬡	36	9	37
IB6-20C-RS-36-12-⬡	36	12	37
IB6-20C-RS-36-18-⬡	36	18	37
IB6-20C-RS-36-24-⬡	36	24	37
IB6-20C-RS-36-30-⬡	36	30	37

Supplied with:

FIXING SETS

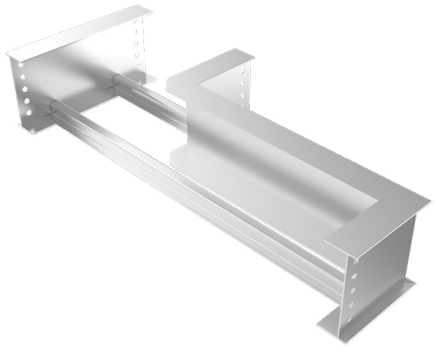
Material Configurations:

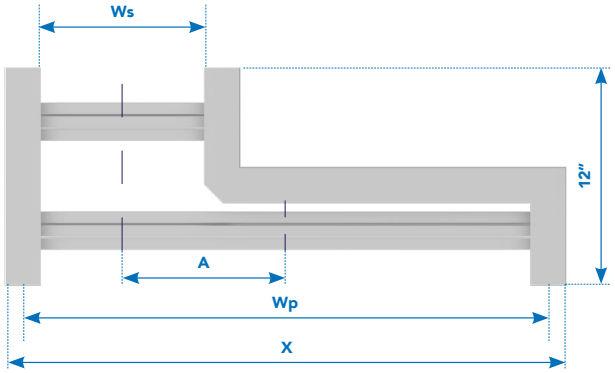
AL AM

I-Beam Reducers - Left

VANTRUNK I-BEAM

Fitting Type: RL | **IB6-20C-RL-WIDTH PRIM.-WIDTH SEC.-⬡**





Part Number	Dimensions (")			
	Wp	Ws	A	X
IB6-20C-RL-9-6-⬡	9	6	2	10
IB6-20C-RL-12-6-⬡	12	6	3	13
IB6-20C-RL-12-9-⬡	12	9	2	13
IB6-20C-RL-18-6-⬡	18	6	6	19
IB6-20C-RL-18-9-⬡	18	9	5	19
IB6-20C-RL-18-12-⬡	18	12	3	19
IB6-20C-RL-24-6-⬡	24	6	9	25
IB6-20C-RL-24-9-⬡	24	9	8	25
IB6-20C-RL-24-12-⬡	24	12	6	25
IB6-20C-RL-24-18-⬡	24	18	3	25
IB6-20C-RL-30-6-⬡	30	6	12	31
IB6-20C-RL-30-9-⬡	30	9	11	31
IB6-20C-RL-30-12-⬡	30	12	9	31
IB6-20C-RL-30-18-⬡	30	18	6	31
IB6-20C-RL-30-24-⬡	30	24	3	31
IB6-20C-RL-36-6-⬡	36	6	15	37
IB6-20C-RL-36-9-⬡	36	9	14	37
IB6-20C-RL-36-12-⬡	36	12	12	37
IB6-20C-RL-36-18-⬡	36	18	9	37
IB6-20C-RL-36-24-⬡	36	24	6	37
IB6-20C-RL-36-30-⬡	36	30	3	37

Supplied with:

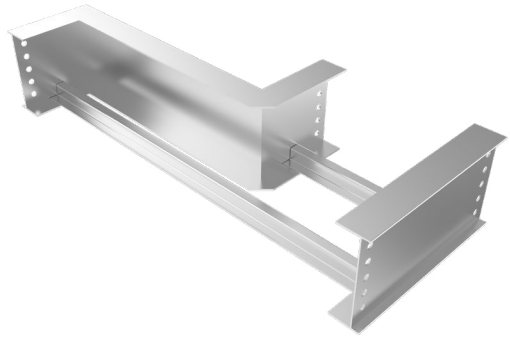
FIXING SETS

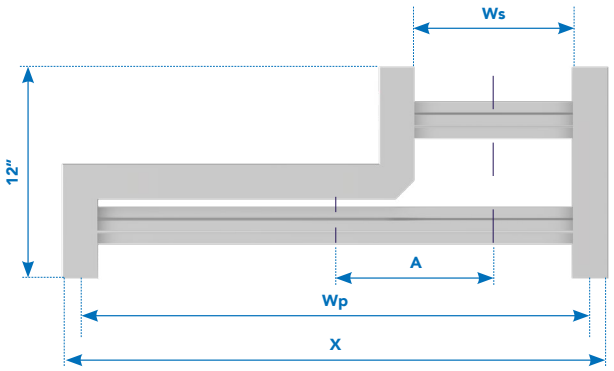
Material Configurations:

AL AM

I-Beam Reducers - Right

Fitting Type: RR | **IB6-20C-RR-WIDTH PRIM.-WIDTH SEC.-⬡**





Part Number	Dimensions (")			
	Wp	Ws	A	X
IB6-20C-RR-9-6-⬡	9	6	2	10
IB6-20C-RR-12-6-⬡	12	6	3	13
IB6-20C-RR-12-9-⬡	12	9	2	13
IB6-20C-RR-18-6-⬡	18	6	6	19
IB6-20C-RR-18-9-⬡	18	9	5	19
IB6-20C-RR-18-12-⬡	18	12	3	19
IB6-20C-RR-24-6-⬡	24	6	9	25
IB6-20C-RR-24-9-⬡	24	9	8	25
IB6-20C-RR-24-12-⬡	24	12	6	25
IB6-20C-RR-24-18-⬡	24	18	3	25
IB6-20C-RR-30-6-⬡	30	6	12	31
IB6-20C-RR-30-9-⬡	30	9	11	31
IB6-20C-RR-30-12-⬡	30	12	9	31
IB6-20C-RR-30-18-⬡	30	18	6	31
IB6-20C-RR-30-24-⬡	30	24	3	31
IB6-20C-RR-36-6-⬡	36	6	15	37
IB6-20C-RR-36-9-⬡	36	9	14	37
IB6-20C-RR-36-12-⬡	36	12	12	37
IB6-20C-RR-36-18-⬡	36	18	9	37
IB6-20C-RR-36-24-⬡	36	24	6	37
IB6-20C-RR-36-30-⬡	36	30	3	37

Supplied with:

FIXING SETS

Material Configurations:

AL AM

VANTRUNK I-BEAM

COUPLERS

The I-Beam Coupling system has been designed to provide solutions for a wide range of installation applications.

All Couplers are manufactured and tested in accordance with NEMA VE-1.

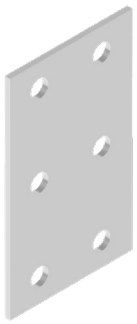
HOW TO ORDER

IB67	-	HD	-	CS	-	AM
System Type		Duty		Coupler Type		Material Configuration

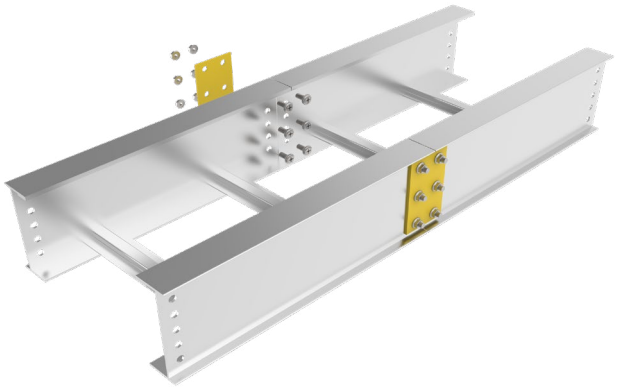
VANTRUNK I-BEAM

Heavy Duty Straight Coupler

Coupler Type: HD-CS | **Part Number: IB67-HD-CS-⬡**



Supplied singly



Heavy Duty Coupler Straight

Supplied with:

FIXING SETS

Material Configurations:

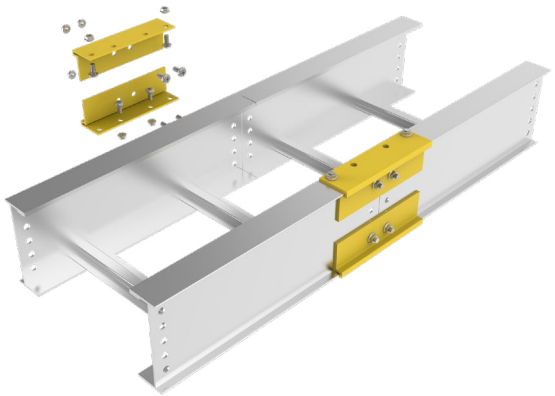
AL AM

Mid-Span Straight Coupler

Optional mid-span couplers can be placed at any location within a span, eliminating the need to have couplers located within the quarter span position as shown in NEMA VE-2. This can reduce the number of supports required and cost of installation.

Coupler Type: MS-CS | **Part Number: IB6-MS-CS-⬡**

Supplied singly



Mid-Span Straight Coupler

Supplied with:

FIXING SETS

Material Configurations:

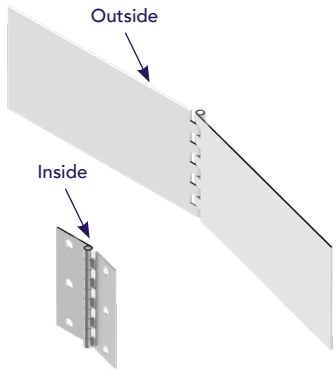
AL AM

VANTRUNK I-BEAM

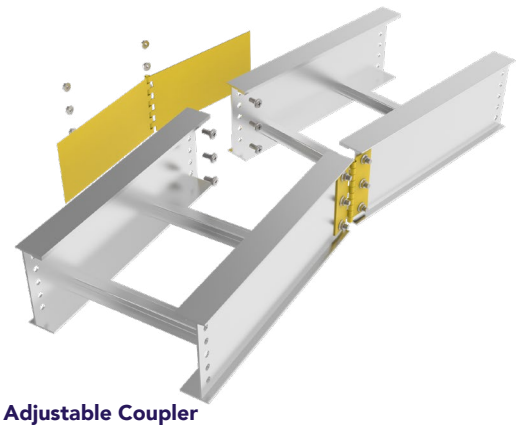
Heavy Duty Horizontal Adjustable Coupler

Maximum movement of +/-30°. Bonding jumpers should be used on each rail. The long HAC is drilled on site once the straights are at the set angle.

Coupler Type: HD-HAC | **Part Number: IB67-HD-HAC-⬡**



Supplied singly



Horizontal Adjustable Coupler

Supplied with:

FIXING SETS

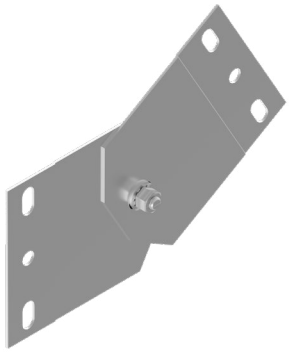
Material Configurations:

AL AM

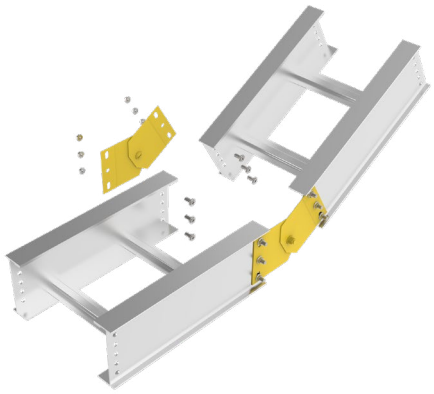
Heavy Duty Vertical Adjustable Coupler

Maximum movement of +/-30°.
Bonding jumpers should be used on each rail.

Coupler Type: HD-VAC | **Part Number: IB67-HD-VAC-⬡**



Supplied singly



Vertical Adjustable Coupler

Supplied with:

FIXING SETS

Material Configurations:

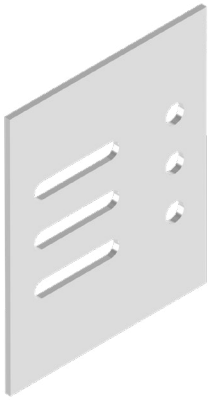
AL AM

VANTRUNK I-BEAM

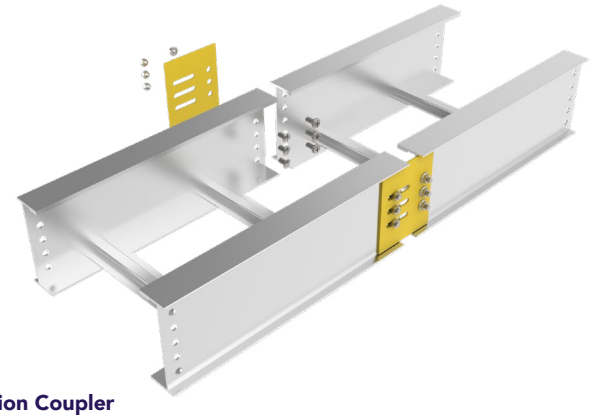
Heavy Duty Expansion Coupler

Expansion Couplers are designed to allow 1-1/2" of free movement between straight sections. Bonding jumpers are required.

Coupler Type: HD-EXP | **Part Number: IB67-HD-EXP-⬡**



Supplied singly



Expansion Coupler

Supplied with:

FIXING SETS

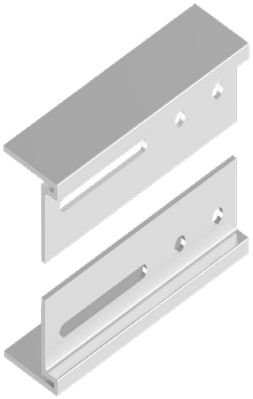
Material Configurations:

AL AM

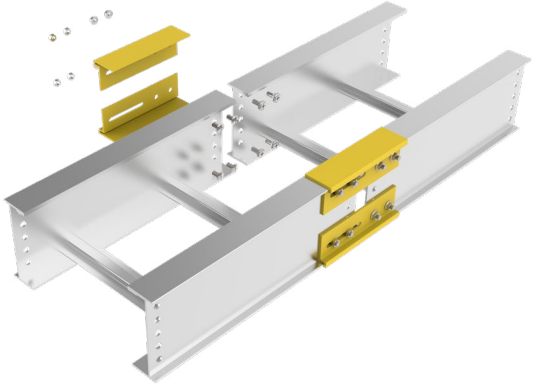
Support Reduction Expansion Coupler

Optional quarter-span Support Reduction Expansion Couplers can be placed within the quarter span position without supporting both sides of the joint. These couplers can reduce the cost of installation by reducing the number of supports needed. Bonding jumpers are required.

Coupler Type: SREC | **Part Number: IB67-20C-SREC-⬡**



Supplied singly



Support Reduction Expansion Coupler

Supplied with:

FIXING SETS

Material Configurations:

AL AM

VANTRUNK I-BEAM

ACCESSORIES

The I-Beam Cable Ladder Tray System is complemented by a range of accessories designed to aid installation, add functionality and increase flexibility.

Our I-Beam range of versatile fixing clamps and brackets have been designed to represent cost-effective and practical solutions in the installation environment.

HOW TO ORDER

IB6	-	DIV	-	SL144	-	AM
System Type		Accessory Type		Accessory Type		Material Configuration

VANTRUNK I-BEAM

External Flange Clamp

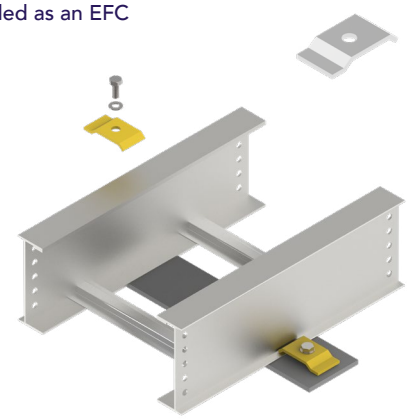
The External Flange Clamp (EFC) forms a simple but effective means of connecting I-Beam Cable Ladder Tray and Fittings to the supporting structure. It can also be used as an expansion guide. Designed for use with either strut type channel or structural steelwork.

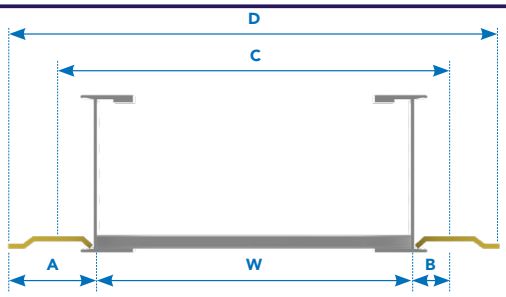
Forming a secure clamping attachment onto the bottom flange of the I-Beam profile, the external flange clamp can be used with all I-Beam cable ladder tray and fittings.

The External Flange Clamp is suitable for securing horizontal runs of I-Beam Cable Ladder Tray and Fittings in the horizontal plane. External Flange Clamps are not suitable for supporting I-Beam Cable Ladder Tray and Fittings installed as part of a vertical run.

Accessory Type: EFC **Part Number: IB-EFC-⬡**

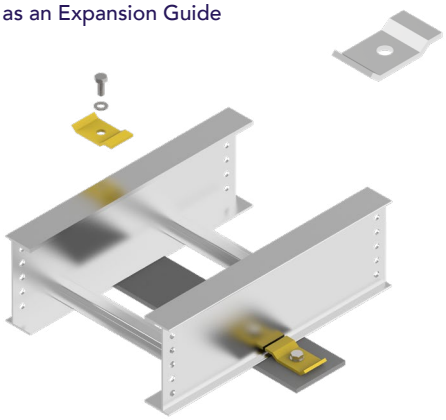
Installed as an EFC

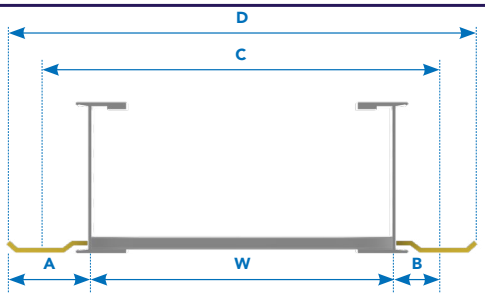




Dimensions (“)			
A	B	C	D
3.4	1.7	W + 3.5	W + 6.9

Installed as an Expansion Guide





Dimensions (“)			
A	B	C	D
3.4	1.9	W + 3.8	W + 6.9

Supplied with:

FIXING SETS

Material Configurations:

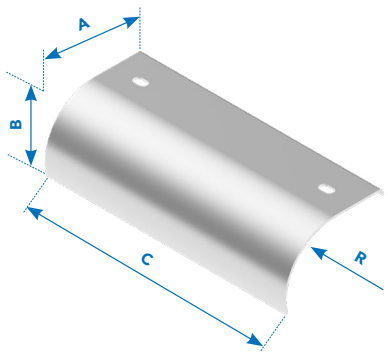
AL AM

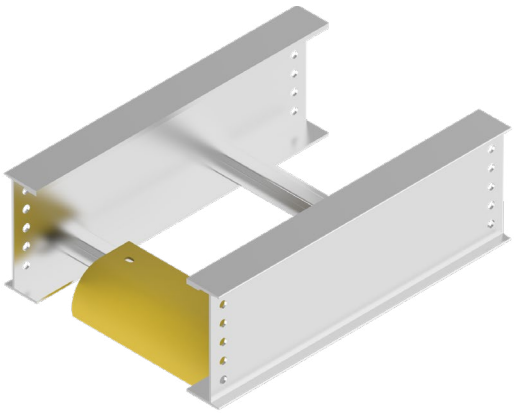
VANTRUNK I-BEAM

Cable Drop Out

I-Beam Cable Drop-Outs (CDO) are designed to provide a smooth transition for cable, particularly those with a small diameter, where these enter and leave the cable ladder.

Accessory Type: CDO | **Part Number: IB-CDO-WIDTH-⬡**





Part Number	Dimensions (")				
	Ladder Width	A	B	C	R
IB6-CDO-6-⬡	6	3.678	2.282	2.875	1.813
IB6-CDO-9-⬡	9			5.875	
IB6-CDO-12-⬡	12			8.875	
IB6-CDO-18-⬡	18			14.875	
IB6-CDO-24-⬡	24			20.875	
IB6-CDO-30-⬡	30			26.875	
IB6-CDO-36-⬡	36			32.875	

Supplied with:

FIXING SETS

Material Configurations:

AL AM

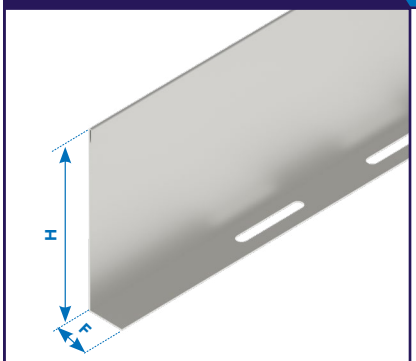
Accessories - Dividers

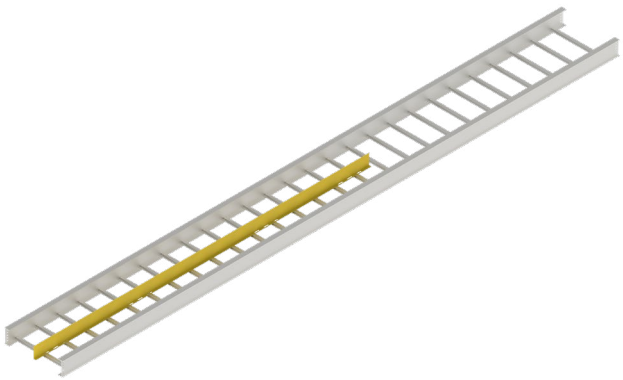
Straight Ladder Divider

I-Beam Straight Ladder Dividers (DIV SL) are available for cable segregation and separation purposes along the length of a cable run. Straight Ladder Dividers are available in standard lengths of 120" (10ft) and 144" (12ft). Other lengths are available on request, please contact our Sales Team for details.

Each divider is furnished with B-37 self drilling, self tapping sheet metal screws for ease of mounting, and one divider splice.

Accessory Type: DIV-SL | **Part Number: IB6-DIV-SL144-⬡**





Straight Ladder Divider

Part Number	Dimensions (")		
	L	H	F
IB6-DIV-SL120-⬡	120	4.75	1
IB6-DIV-SL144-⬡	144	4.75	1

Supplied with:

FIXING SETS

Material Configurations:

AL AM

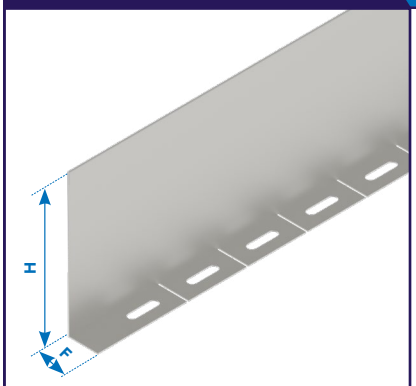
Accessories - Dividers

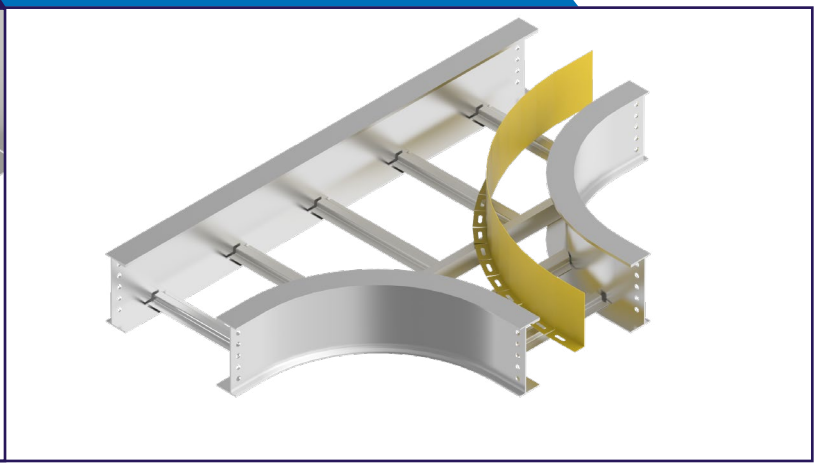
Fitting Divider

I-Beam Fitting Ladder Dividers (DIV FL) are available for cable segregation and separation purposes on fittings. The I-Beam Fitting Divider is supplied as a straight length and is slotted to allow for forming around flat elbows, tees, crosses & reducers. Sections may be cut on site or continued along a straight run. Fitting Ladder Dividers are supplied in 6ft standard lengths.

Each divider is furnished with B-37 self drilling self tapping sheet metal screws for ease of mounting and one divider splice.

Accessory Type: DIV-FL **Part Number: IB6-DIV-FL144-⬡**





Part Number	Dimensions (")		
	L	H	F
IB6-DIV-FL-⬡	70	4.75	1

Supplied with:

FIXING SETS

Material Configurations:

AL AM

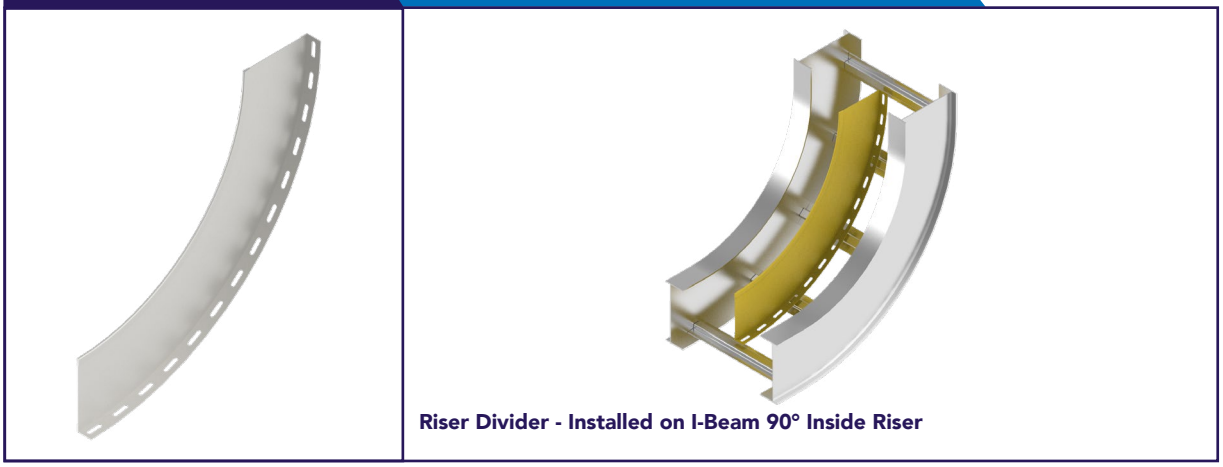
Accessories - Riser Dividers

I-Beam Riser Dividers (DIV-RL) are available for cable segregation and separation purposes on risers. Riser Dividers are available for use on inside and outside risers at specific angles and radii. 90° dividers can be cut on site to suit other angles.

Each divider is furnished with B-37 self-drilling, self-tapping sheet metal screws for ease of mounting and one divider splice.

Inside Riser Divider

Accessory Type: DIV-IR **Part Number: IB6-DIV-IRθ-Radius-⬡**



Riser Divider - Installed on I-Beam 90° Inside Riser

Part Number	Dimensions (")			
	Angle	Radius	H	F
IB6-DIV-IR45-12-⬡	45	12	4.75	1
IB6-DIV-IR90-12-⬡	90	12		
IB6-DIV-IR45-24-⬡	45	24		
IB6-DIV-IR90-24-⬡	90	24		
IB6-DIV-IR45-36-⬡	45	36		
IB6-DIV-IR90-36-⬡	90	36		

Supplied with:

FIXING SETS

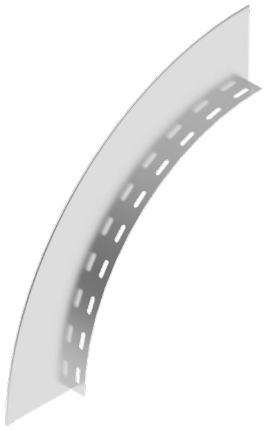
Material Configurations:

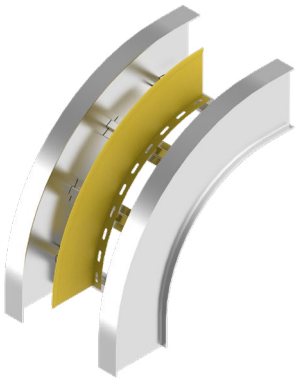
AL AM

Accessories - Riser Dividers

Outside Riser Divider

Accessory Type: DIV-0R **Part Number: IB6-DIV-0RΘ-Radius-⬡**





Riser Divider - Installed on I-Beam 90° Outside Riser

Part Number	Dimensions (")			
	Angle	Radius	H	F
IB6-DIV-OR45-12-⬡	45	12	4.75	1
IB6-DIV-OR90-12-⬡	90	12		
IB6-DIV-OR45-24-⬡	45	24		
IB6-DIV-OR90-24-⬡	90	24		
IB6-DIV-OR45-36-⬡	45	36		
IB6-DIV-OR90-36-⬡	90	36		

Supplied with:

FIXING SETS

Material Configurations:

AL AM