Product Guide 6th Edition 2018











TransDelta Steel Industries W.L.L.

(A Member of TGI Group, Europe)









Letter from M D



Firstly I would like to express my sincere gratitude to those who have been with us for the past 20 years since our inception. We reckon that your constructive criticism, genuine ideas and factory-site coordination has helped us to develop a unique system for Middle East. As a result, our cable management system has been developed for quick installation and thereby reducing the overall project cost for the contracts. We used European technology to emerging Gulf markets and it did yield successful results.

We are proud to say that we are the first manufacturer of cable support system in Gulf commercially and our products are installed in various prestigious projects in and out of Gulf for the past 20 years.

We believe that quality is not a watchword, but a practical way of engineering a product to perfection. We have put sincere efforts to see that quality is assured at each stage of production and till the final product is delivered to customer. Not only we ensure that we meet the customer specification, quality and delivery, but even exceed beyond their expectation.

Our design department is consistently trying to develop better designs which will make installation very simple as well as aesthetic. In an effort to satisfy the customer, we have started our most modern in-house powder coating plant and galvanizing plant which is custom made for Cable management systems. This will ensure that you will get a final product which is fully controlled by us. This way we are able to supply quality materials at a very reasonable price.

We are looking forward to your continued patronage in the future also as you did in the past.

Yours Sincerely





Contents

1.	BASIC CONCEPT	5
2.	DELTA CABLE TRAYS	9
3.	DELTA CABLE TRUNKING	25
4.	Delta Cable Ladders	43
5.	Delta Strut Systems	<i>55</i>
6.	DELTA PULL BOXES	79



Cable Management systems are continuous rigid Metal support systems designed to carry all types of cables. They are used to support various types of cables in Power sector, High rise building as well as telephone cables in offices. They provide a safe way to carry large number of cables & wires over a considerable distance between their starting and termination points. Cable management systems carry a specific number of cables of specific load safely over a span between two supports.

Delta Cable Management - Speciality

Metallic Delta Cable management system is a range of products from Transdelta Int'l Industries having ISO 9001: 2008, UL and SGS Certification. We have fully equipped factory with Design, production and Quality control Departments. The load capabilities, Support span requirements, Deflection criteria, site installation problems have been carefully considered by our design department while designing the entire product range. All our products are manufactured using the latest CNC technology Robot assisted welding which help us to maintain a unique quality product throughout manufacturing. Entire Delta Cable management system has been designed to minimize welding. Last 20 years of research and development in this field has helped us to develope a system which has taken into account all the requirements of construction sites in the Middle East.

Cable Management



Our Product Range

- 1. Delta Cable Trays
- 2. Delta Cable Trunkings
- 3. Delta Cable Ladders
- 4. Delta Strut Systems
- 5. Delta Pull Boxes

Raw Material

CARBON STEEL

This raw material occupies 90% of Cable trays manufactured through out the world is low carbon mild steel. It combines good strength economy and availability. It has got various coating on top of that to avoid corrosion.

COR-TEN A STEEL

COR-TEN A Steel is a high strength, low-alloy steel produced specially for achieving high galvanized coating. It has got a high Silicon content due to which we can achieve a deep galvanizing compared to normal galvanizing. This is most favoured for industrial plants, under pass and tunnels.

STAINLESS STEEL

Stainless Steel products, manufactured in accordance with AISI 304, or in accordance with AISI 316L are designed for use in highly aggressive environments. It has an extensive use in various areas like refineries, Chemical industries, Fertilizer factories and Industries where hygiene is a major concern like dairies, Abattoirs food industries and

pharmaceutical factories. Apart from the aesthetic appearance it resist fire to a greater extend. Stainless steel can maintain its integrity even in a flame temperature of 1000°C. The main types available are the following,

STAINLESS STEEL AISI 304 AND AISI 316 L

304 is the normal grade used in stainless steel where as 316L is used in highly aggressive environment with high chlorine contents like in marine areas. With the presence of Molybdinum in 316L it has got an improved corrosion resistance against to chlorides.

ALUMINIUM

Aluminum is a rust free alternative to all other basic raw materials. It has got a special superficial coating of al₂o₃(alumina) to protect from rust. Due to its good corrosion resistance, it can be used in chemical environment. And light weightiness is making it ideal for usage in marine vessels and ships. It does not require any additional top coating to avoid rusting.

Surface Coatings

HOT DIP GALVANIZING AFTER FABRICATION (HDGAF)

This finish is having a considerably longer protection under normal industrial and commercial environments. Hot dip galvanizing is a process where completely manufactured or roll formed steel is chemically cleaned of all contaminants and then dipped in molten zinc. This will allow a coating consists of iron/zinc alloys which are usually over coated with a layer of almost pure zinc. The thickness of zinc coating depends on the thickness of the steel. Local coating thickness varies from 35µ-55µ depending on thickness. Please note that this is purely a mechanical operation focusing on the degree of protection rather than the aesthetic appearance. More thickness of zinc can be achieved by this method compared to any other process, leaving a light film of zinc on the small holes on the surface of the product.

Corten A steel can be deep galvanized compared to normal coating where the operation remain same as aforesaid. Grey coating is expected due to the high silicon content of this steel.

British Standard: BS EN ISO 1461 (Formerly BS 729)

PRE GALVANIZED FINISH OR CONTINUOUSLY HOT DIP GALVANIZED SHEET FINISH (HDGBF)

This finish is an economical solution in the normally dry indoor application where the atmosphere is less corrosive. In this finish zinc coating is applied on both sides of the steel sheet during manufacturing itself, resulting in bright and smooth surface finish. The base metal edges(cut edges) exposing in further manufacturing operations is not a hindrance to the usage in the indoor dry atmosphere application - even though the exposed area may have a slight discoloration which can be mistaken as rust - because of the self repairing cathodic protective effect. Not suitable for any highly corrosive and high humidity atmospheric conditions.

British standard BS EN 10327 (Formerly BS 10143)

ELECTRO-GALVANIZING (EG)

In this finish a thin zinc layer is deposited in electrolysis process to product surface. Usage is limited only to dry interior spaces due to very less coating thickness.



Delta Polyester Coating System (EPAG)

A cost effective alternative to stainless steel for cable support systems.

Delta Polyester Coating system consists of Hot-dip galvanized mild steel which is protected by a cross-polymer coating. The polymer is applied in the form of a powder coating through electrostatic spray to ensure an even film build up and good coverage on edges. Delta Polyester Coating System is a cost effective alternative to stainless steel and has greater resistance in corrosive environments especially where chlorides are present.

Delta Polyester Coating System capitalizes on the synergy between hot-dip galvanizing and powder coating. The results are long-term protection of capital assets under harsh marine and chemically aggressive environments.

How the Delta Polyester Coating System Functions

Mild steel applied with Zinc galvanizing counteracts corrosion through cathodic protection. The zinc plays the role of the sacrificial cathode which prevents the substrate from being corroded and thus gradually consumed. Subsequently, an organic coating is applied over the zinc layer in order to extend the life span of the zinc. This organic coating protects the zinc from attack by corrosive chemicals, giving them a greater life expectancy to the system. However, if the organic coating has imperfections (e.g. through mechanical damage), oxides will be formed by the zinc to seal the crevices thus arresting the advancement of corrosion.

The final colour and gloss requirements (e.g. semimatt black) is achieved through powder coating. But since hot dip galvanizing is a mechanical process some uneven surface is expected in the final product after powder coating. Also, the use of polyester in the specified colour creates maximum resistance to degradation by ultra-violet rays. The specially formulated polyester has the required flow properties to form a continuous layer which is impervious to moisture.

Polyester powder coatings are thermally cross-linked to form a tough and resilient protective film with high degree of mar-resistance. Therefore, there is no threat of the film losing mechanical properties on exposure to elevated temperatures. In the event of a fire, there is no threat of running or dripping as in the case with thermoplastic coatings. The combined zinc and polymer film build creates the desired protective properties without an excessively high loading of organic substance. Delta Polyester Coating System does not promote combustion. Therefore, on exposure to high temperature conditions, there is no liberation of halogens.

For further details on the features, performance and benefits of the Delta Polyester Coating System, a comprehensive brochure is available upon request.

We have in-house powder coating plant to achieve high quality and faster deliveries. Our in house quality person evaluates the lot before despatch. Mention the RAL colour and finish requirements while ordering delta polyester coating system.



Delta Cable Tray

As per BS EN 61537 & NEMA VE 1

Delta Cable Tray

Metallic Delta cable trays are manufactured for the smooth and easy pulling of cable from one point to another to BS EN 61537. We have designed the best cable trays, by taking care of Cable loads and practical site problems. Wherever possible all fitting are made of state of art single piece construction. Slotting Patterns are in such a way that it enables the easy cutting and joining at any point without drilling at site. Design allows greater cable filling capacity and smooth turning at bends.

Product specification

Material and Finish (See Page No: 6 for details)

- Pre galvanized steel or Hot dip galvanized steel before fabrication (HDGBF) as per BS EN 10327
- Hot dip Galvanized after fabrication (HDGAF) as per BS EN 1461
- Epoxy polyester Powder coating to any RAL colour
- Aluminium Cable tray
- Stainless Steel cable tray to AISI 304 and AISI 316L
- Corten A Steel Cable Tray

Types available

- 1. 12MM Side Height Cable Tray (P Type)
- 2. 25MM Side Height Cable Tray (M Type)
- 3. 50MM Side Height Cable Tray (R Type)

Standard sizes available in heavy duty cable tray

Width x Height in MM

50×50	200x50	600x50
100x50	300x50	750x50
150x50	450x50	900x50

Sizes other than this also available to customer request

Length

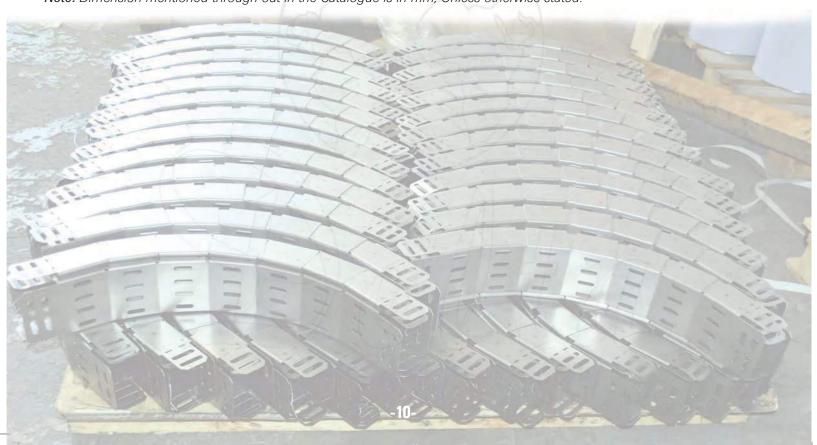
3 Meter as standard. Other lengths are also available.

Slotting Pattern

Slots along the length (A) (Standard)

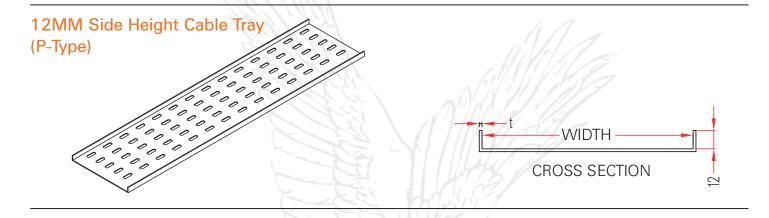
Non Perforated tray also available on request

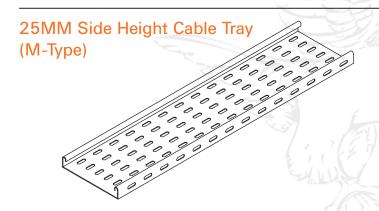
Note: Dimension mentioned through out in the Catalogue is in mm, Unless otherwise stated.

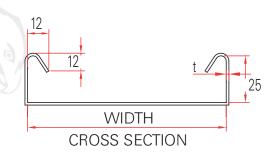


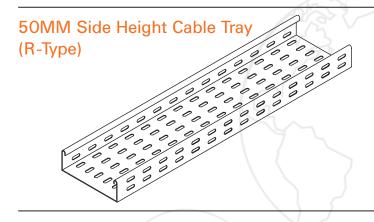
Standard Perforated Delta Cable Tray

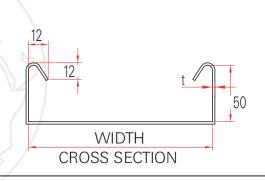
The width and height are the inside dimension of the tray. Only straight length needs coupler to join. Couplers Should be ordered separately.

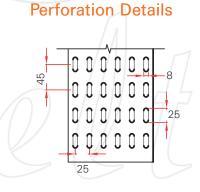












Perforation details remain same for light duty, medium duty and heavy duty cable trays.

Standard Size & Thickness

12MM Side Height Cable Tray (P-Type)

		•				
Width in	Possible Thickness in mm					
mm	1.0	1.2	1.5	2.0		
50	/	/	1/3	/		
100	/	/		/		
150	/	/	X	/		
200	/	/		/		
300	X	/		/		
450	X	X	~	/		
600	X	X		/		

25MM Side Height Cable Tray (M-Type)

	_			1			
Width in	F	Possible Thickness					
mm	1.0	1.2	1.5	2.0			
50	/	/	/	/			
100	/	/	/	/			
150	/	/	/	/			
200	/	/	/	/			
300	X	/	/	/			
450	X	X		/			
600	X	X	~	/			
750	X	X	X	/			
900	X	X	X	/			

50MM Side Height Cable Tray (R-Type)

Width	Po	Possible Thickness			
vviatri	1.0	1.2	1.5	2.0	
50	/	/	/		
100	/	/	\	>	
150	/	/	/		
200	/	/		/	
300	X	/		/	
450	X	X	/	/	
600	X	X		/	
750	X	X	X	/	
900	X	X	X	//	

- The Thickness mentioned are as per our standard thickness. However customer can order different thicknesses as per their requirement.
- Commercial Tolerance on Thickness Apply.
- Contact Sales desk for fitting thickness.

Handling and Storage

Cable tray cannot be used as a walkway, means not suppose to withstand unusual excessive point loads. And not meant for torsional rigidity.

Delta tray should store in site under the roof in dry, well ventilated conditions and away from dust to preserve appearance for internal installations. And to avoid wet storage stain.

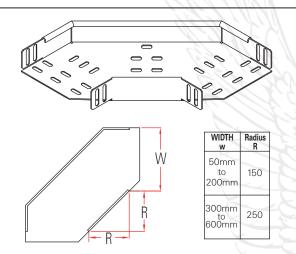
All cut edges of cable tray at site should be protected by applying Zinc rich paint to avoid further corrosion.

Order Zinc rich paint separately.

Delta Cable Tray Fittings

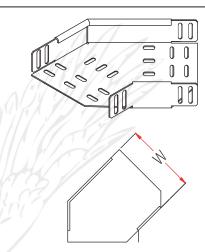
All bends, tees (Except Vertical tee) and crosses shown are gusseted in shape and heavy duty in construction - For Higher width and radius segmented construction method may be used.

90° Bend



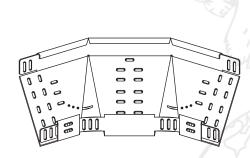
Bends are available in 30 and 60 degrees also

45° Bend



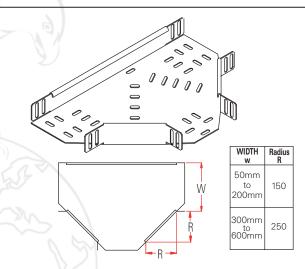
Two 45° bends can be used to achieve offsets in horizontal direction.

Adjustable Horizontal Bend

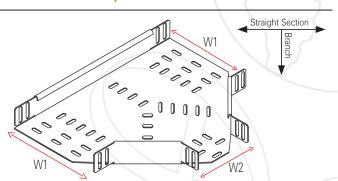


Adjustable Horizontal Bends are available only up to and including 300mm width

Horizontal Equal Tee



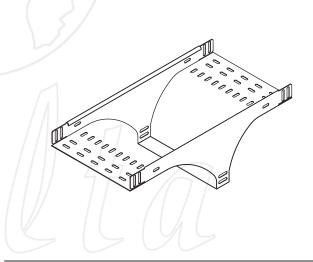
Horizontal Unequal Tee



When ordering Horizontal Unequal Tee - Please order in the form of W1-W2 to fill the width column.

For any unequal Tee order, maintaining width (W1) of the straight section identical by adding appropriate reducer where ever necessary. Width of the branches (W2) can be vary from straight section.

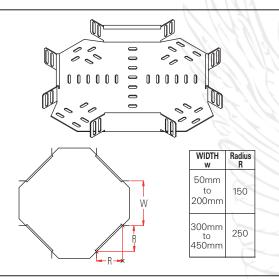
Vertical Tee



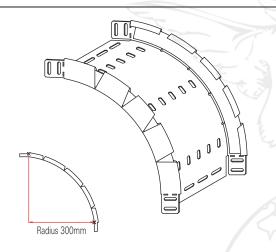
Radius type fittings are also available on request. Put R in the column of type of Curvature. Contact sales desk for various light and medium duty fittings and large radius bends.

Delta Cable Tray Fittings

Horizontal Cross

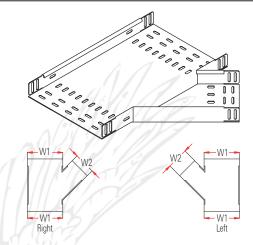


90° Riser Outside



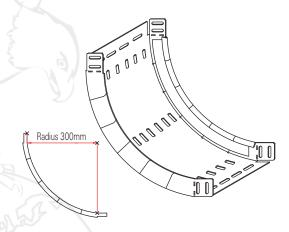
Risers are also available in 30, 45 and 60 degree

Y Branch Left and Right



Cable is deviated to 45° from the main line

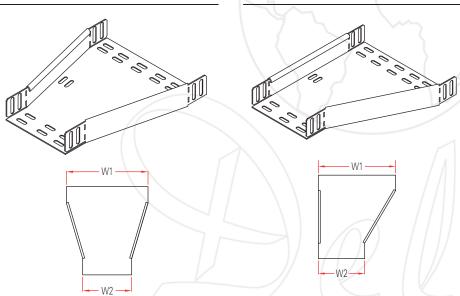
90° Riser Inside



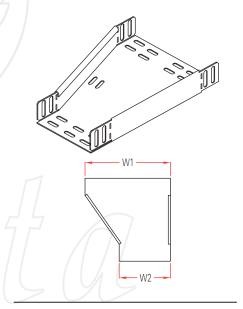
Inside and Outside Riser combination can be used to achieve

Straight Reducer

Right Reducer



Left Reducer



Note: Mention big dimension W1 first followed by W2 to fill the width column while ordering reducers.

Two 45° Inside and Outside riser combination can be used to achieve offsets in vertical direction.

How to Order Perforated Cable Tray & Fittings

	Base	Metal	Finish	Type
	Mild Steel Aluminium	1 2	Mild Steel P 12MM Side Height	Р
	S/Steel 316L S/Steel 304	3 4	HDGAF Stainless Steel G 25MM Side Height	M
	Corten A Steel	5	Aluminium Normal Finish M 50MM Side Height	R
	I	Pattern	Thickness 2 Elei	ments
	Slots Along the Length (Standard)	A -	1.00 mm 1 1.20 mm 2 1.50 mm 3 2.00 mm 4 Straight Section 90° Bend 90° Riser Inside 90° Riser Outside Adj. Horizontal Bend Horizontal Tee Horztl' Unequal Tee Vertical Tee Horizontal Cross Straight Reducer Y Branch Right Y Branch Left	SS 9H 9RI 9RO AH HT HUT VT HC RS RY LY
		Width	Side Height L	.ength
	Width Varies from	50	12 mm 12 2000 25 mm	2
	50 mm to		50 mm 75 mm 100 mm 50 75	2.44
	900 mm Please Refer to Page No: 12	900	125 mm 125 150 150 3000	3
	Type of curv	ature	Epoxy finish if required	
_	Gusset		G 4 E (EPAG)	

For Straight Length

Mention first 9 Columns Continuously and Epoxy finish if Required.

Eg. of Straight Section

1GRA-3SS300-50-3-E (If Required)

For Fittings

Mention first 4 Columns and then elements, width, side height type of curvature and thickness - Epoxy finish if required.

Eg. of fittings

1GRA-9H300-50-G-3-E (If Required)

- 1. As it is from the mill, without any further coating
- 2. For elements other than 90° use 3H 30°, 4H 45°, 6H 60°
- 3. For left reducer LR. Right reducer RR
- 4. See Page No : 13 for Gusset type construction

-15-

10/10/11 0 00 DI

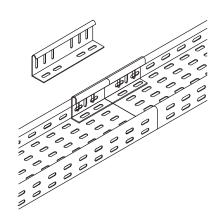
Cable Tray Accessories

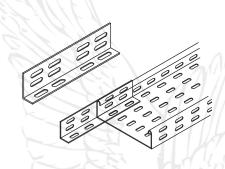
Couplers are supplied in pairs. Order eight sets of M6 x 16 mm roofing bolts, nuts & washers Separately. Order the same fastenings to join fittings with cable tray.

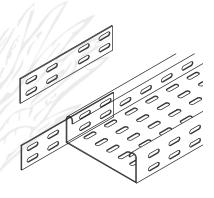
Wrap over Coupler

Bend Coupler

Plate Coupler



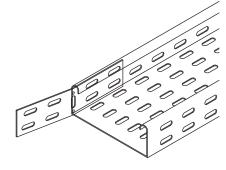




Adjustable Horizontal Coupler

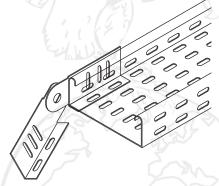
Adjustable Vertical Coupler

Blind End

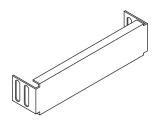




For horizontal change of direction



For vertical change of direction. Shown is one set of Coupler. Needs two sets to join two trays

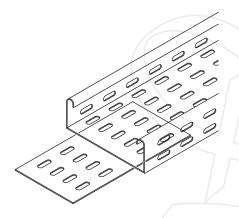


For ordering mention Width and Height of the Cable Tray

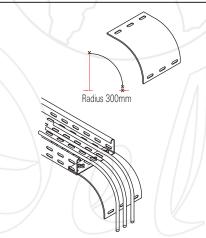
Fish Plate

Drop out

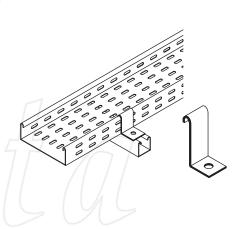
Hold Down Clip



Trays above 450mm wide need fish plates to avoid sagging at joint



Mention width of tray while ordering



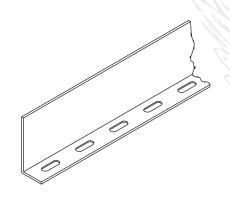
Fastenings order separately

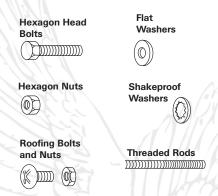
Cable Tray Accessories

Divider

Fasteners

Earth Continuity Connector







Braided Copper, 4mm Conducting area, 100mm center to center

Dividers

Supplied in single without fasteners in three meter long. Used to divide different types of cables inside a single cable tray run. Order 5 Sets of M6 x 12mm roofing bolt, nut and washer per length.

Fasteners

Select various types of fastenings required from Page No : 22. Uses of threaded rod is limited to a maximum of 12mm dia, if not using proper brackets in Delta Strut Channel.

Earth Continuity Connectors

Fastening not included. Use M6 x 16 mm roofing bolt, nut and washer. Copper braided and copper lugs, both in electro tinned finish.



How to Order - Accessories

Product	Base Metal (1,2,3,4&5) Ref. Page 15	Finish (P,G,M)	Item Description	Width (50 - 900) Ref. Page 15	Height (25 - 150)	Length	Abbreviation
Wrap over Coupler	✓	~		-	*	1	cs
Bend Coupler	✓	1	1111	-	146/19	11-3	СС
Plate Coupler	✓	1	Bech	- //	(5(1))//	11/1	СР
Adjustable Horizontal Coupler	√	~				_	AHC
Adjustable Vertical Coupler	√	√	A		9/1	-	AVC
Blind End	✓	✓		9-1	✓	-	BE
Fish Plate	1	V		1 HILL 1	-	-	FP
Drop Out	✓		73 -	✓	-	-	DO
Hold Down Clip	✓	1	3		✓	-	HDL
Divider	√	✓		- Y	/	3	DI

Tick mark shows the relevant parameters against each products.

Example for 300mm width Drop out 1GA-300-DO-E (If Required)

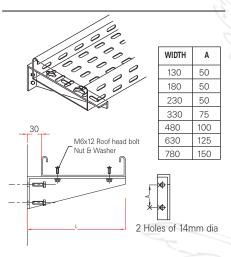
How to order Earth continuity connector ECC-100 (100 mm long)

Manufacturer reserves the right to change the design without any notification.

Supplied without fastenings. Choose various types of fastenings from Page No: 22

More support options are available in Page No: 24

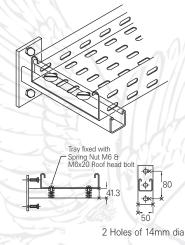
Cantilever Bracket



	L	UDL
DEB	130	170
DEB	180	160
DEB	230	155
DEB	330	140
DEB	480	110
DEB	630	100
DEB	780	130

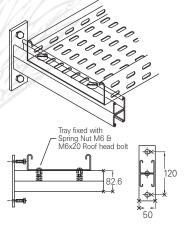
L - Length of the arm
UDL - Uniformly distributed load in kgf

Single Cantilever arm



	L	₹UDL
DEC	180	550
DEC	230	370
DEC	330	270
DEC	480	175
DEC	630	140

Double Cantilever arm

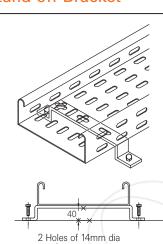


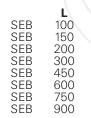
2 Holes of 14mm dia

	L	UDL
DED	180	750*
DED	230	660*
DED	330	600*
DED	480	380*
DED	630	305
DED	780	210
DED	930	175

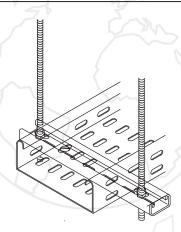
*Slip limits loading capacity when using in Strut Channel as column. Refer Page No: 24

Stand off Bracket





Trapeze Hanger

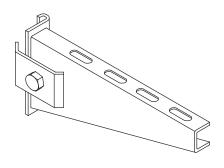


41 x 21 (DB 200 Series) Channel is recommended for trays up to 200mm width. For 300mm onwards use 41 x 41 (DB 100 Series). Can be ordered in slotted profile in 3 meter. See delta strut Channel section for ordering information.

For various threaded rods See Page No : 22

I-Beam Cantilever arm

Use with 40mm wide I-Beam



	L	UDL
DEI	130	105
DEI	180	94
DEI	230	90
DEI	330	85
DEI	480	74
DEI	630	68

- Please note that above given loads are for general guidelines only.
- For Cable trays above 600mm width order double cantilever arm to increase safe working load.
- Trapeze Hanger is only shown to convey the idea of hanging tray from ceiling.

Cable Tray Covers and Fixing Details

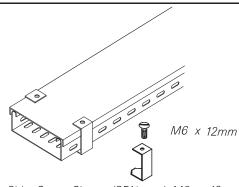
- Straight Covers up to 300mm needs four sets of Clamps.
- 450mm and above needs six Clamps to fix cover.
- Normal flange height of cover is 15mm.

3373.3.

Fittings normally needs four Clamps. For wider ones 5 Clamps needed.

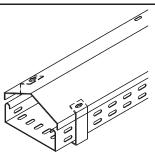
Reinforcing type of profile is used in wider covers.

Solid Flange cover



Order Side Cover Clamp (SFA) and M6 x 12mm Roofing bolt separately. Minimum possible width is100mm for straight section & fittings

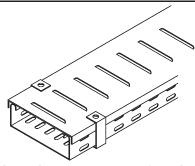
Dome Type cover



Order Side Cover Clamp (DFA) and 2 sets of M6 x 12mm Roofing bolt, Nut & washer separately.

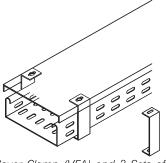
*Maximum size - 600mm width *Not available for fittings

Louvered cover



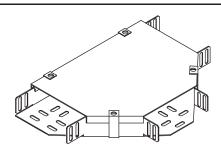
Order Side Cover Clamp (LFA) and M6 x 12mm Roofing bolt separately.

Raised Ventilated cover



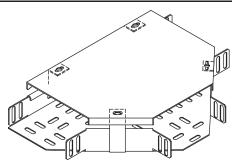
Order Side Cover Clamp (VFA) and 2 Sets of M6 x 12mm Roofing bolt, Nut & Washer separately.

Solid Flange cover for fittings



Order Side Cover Clamp (SFA) and M6 x 12mm Roofing bolt separately.

Raised Ventilated Cover for fittings

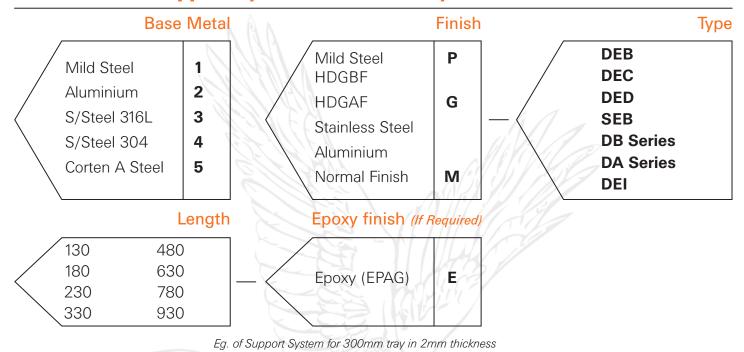


Order Side Cover Clamp (DFA) and 2 sets of M6 x 12mm Roofing bolt, Nut & washer separately.

Catalogue No. of Side Cover Clamp (SCC)

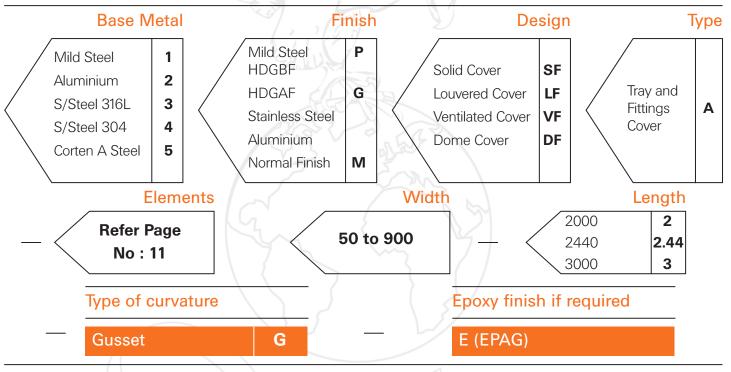
Item / Des.	Material	Finish	Туре	Side Height	Abbreviation
Solid Flange	✓	✓	SFA	✓	SCC
Dome Type	✓	✓	DFA	✓	SCC
Raised Ventilated	✓	✓	VFA	✓	SCC
Louvered	✓	✓	LFA	✓	SCC

How to order Support system for Cable tray



1G-DEC330-4-E (If Required)

How to Order Straight Section and Fittings Cover



For Straight Length

Mention first 7 Columns Continuously and Epoxy finish if required.

Eg. of Straight Section Cover for 100mm Cable Tray in 2mm thickness

1GSFA-SS100-3-4-E (If Required)

For Fittings

Mention first 4 Columns and then elements, width, side height and type of curvature - Epoxy finish if required.

Eg. of Fittings Cover for 100mm Cable Tray in 2mm thickness

1GSFA-9H100-G-4-E (If Required)

Delta Channel Support system

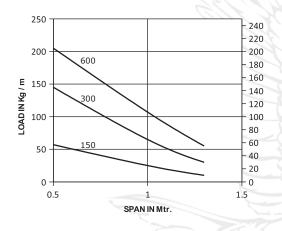
Standard fixing a	ınd fastenin	gs	Hot Dip Galvanized M6	pack 500	HN06HG
Fastenings		11131	Stainless Steel (A4)		
			M6	pack 100	HN06A4
Hexagonal Head	Roofing Bolts	Spring	M8 M10	pack 100 pack 100	HN08A4 HN10A4
Bolts	and Nuts	Washer	M12	pack 100 pack 100	HN12A4
				pack 100	111112/14
			Stainless Steel (A2)	maak 100	LINIOGAG
	Flat		M6 M8	pack 100 pack 100	HN06A2 HN08A2
Hexagonal Nuts	Washers	Threaded Rods	M10	pack 100	HN10A2
			M12	pack 100	HN12A2
	(O)				
			Roofing Bolts Electroplated Zinc		
Hexagonal Head B	olts		M6 x 12	pack 200	RB0612EG
Electro Plated Zinc			M6 x 16	pack 200	RB0616EG
M6 x 16	pack 100	HB0616EG	M6 x 20	pack 200	RB0620EG
M6 x 20	pack 100	HB0620EG	M6 x 25	pack 200	RB0625EG
M6 x 25	pack 100	HB0625EG	M6 x 30	pack 100	RB0630EG
M8 x 16	pack 100	HB0816EG	M6 x 40	pack 100	RB0640EG
M8 x 20	pack 100	HB0820EG	M6 x 50	pack 100	RB0650EG
M8 x 25 M8 x 30	pack 100 pack 100	HB0825EG HB0830EG	Hot Dip Galvanized		
M8 x 35	pack 100 pack 100	HB0835EG	M6 x 12	pack 100	RB0612HG
M8 x 40	pack 100	HB0840EG	M6 x 16	pack 100	RB0616HG
M10 x 20	pack 100	HB1020EG	Stainless Steel (A4)		
M10 x 25	pack 100	HB1025EG	M6 x 12	pack 100	RB0612A4
M10 x 30	pack 100	HB1030EG	M6 x 16	pack 100	RB0616A4
M10 x 35	pack 100	HB1035EG	M6 x 20	pack 100	RB0620A4
M10 x 40	pack 100	HB1040EG	Stainless Steel (A2)		
M10 x 50	pack 100	HB1050EG	M6 x 12	pack 100	RB0612A2
M12 x 20	pack 100	HB1220EG	M6 x 16	pack 100	RB0616A2
M12 x 25 M12 x 30	pack 100 pack 100	HB1225EG HB1230EG	M6 x 20	pack 100	RB0620A2
M12 x 35	pack 100 pack 100	HB1235EG	-(
M12 x 40	pack 100	HB1240EG	Flat Washers		
M12 x 50	pack 100	HB1250EG	Electro Plated Zinc	. 500	=14/00=0
			M6	pack 500	FW06EG
Hot Dip Galvanized M6 x 12	pack 100	HB0612HG	M8 M10	pack 500	FW08EG FW10EG
M6 x 16	pack 100 pack 100	HB0616HG	M12	pack 500 pack 200	FW12EG
M6 x 20	pack 100	HB0620HG		pack 200	1 1 1 1 2 2 0
M6 x 35	pack 100	HB0635HG	Stainless Steel (A2)	1.400	E) 4 (0.0 4.0
	,		M6	pack 100	FW06A2
Stainless Steel (A4) M6 x 20	pack 100	HB0620A4	M8 M10	pack 100 pack 100	FW08A2 FW10A2
M6 x 25	pack 100	HB0625A4	M12	pack 100 pack 100	FW12A2
M8 x 25	pack 100	HB0825A4	10112	pack 100	IVVIZAZ
M8 x 35	pack 100	HB0835A4	Spring Washer		
M8 x 40	pack 100	HB0840A4	Electro Plated Zinc		
M10 x 16	pack 100	HB1016A4	M6	pack 400	SW06EG
M10 x 25	pack 100	HB1025A4	M8	pack 400	SW08EG
M10 x 40	pack 100	HB1040A4	M10	pack 400	SW10EG
M12 x 25	pack 100	HB1225A4	M12	pack 400	SW12EG
Stain less Steel (A2)			TI 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
M6 x 20	pack 100	HB0620A2	Threaded Rods in	2 meters as standar	d
M6 x 25	pack 100	HB0625A2	Electro Plated Zinc		TDOCEC
M8 x 25	pack 100	HB0825A2	M6 x 2m M8 x 2m		TR06EG TR08EG
M8 x 35	pack 100	HB0835A2	M10 x 2m		TR10EG
M8 x 40	pack 100	HB0840A2	M12 x 2m		TR12EG
M10 x 16 M10 x 25	pack 100 pack 100	HB1016A2 HB1025A2			IIIIZEG
M10 x 40	pack 100 pack 100	HB1040A2	Stainless Steel (A4)		TDOG A 4
M12 x 25	pack 100 pack 100	HB1225A2	M6 x 2m M8 x 2m		TR06A4 TR08A4
	pack 100	1151220/12	M10 x 2m		TR10A4
Hexagonal Nuts			M12 x 2 m		TR10A4
Electro Plated Zinc					11112/14
Liootio i latoa ZIIIO	pack 500	HN06EG	Stainless Steel (A2)		TD0040
M6	Dack Dun				
M6 M8			M6 x 2m		TRO6A2
M6 M8 M10 M12	pack 500 pack 500 pack 200 pack 200	HN08EG HN10EG HN12EG	M6 x 2m M8 x 2m M10 x 2m		TROBA2 TRO8A2 TR10A2

[•] For threaded rods of 2 meter length add /2 after the code.

Load Graphs for Cable Tray



12MM Side Height Cable Tray

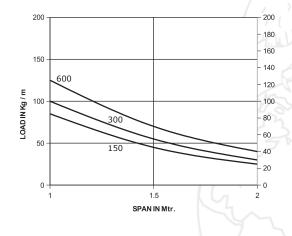


Results shown is for continuous, horizontally run, uniformly distributed load with a multiple span environment.

The loads above the graph line is unacceptable and below the line is safe.

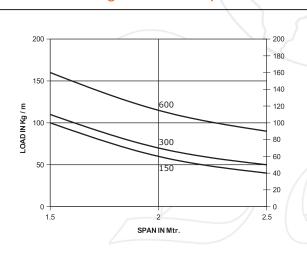
Desired coupler location is one quarter of the span length away from support point where ever possible.

25MM Side Height Cable Tray



Should not extend the graph line to get another span v/s load position.

50MM Side Height Cable Tray



Wider trays are tested with fish plate fitted at the joint.

Load capacity shown excludes the weight of the cover.

Note: For guidelines only. Any claim for varied performance is not accepted.

More Support Systems

Details shown in more support options using DB100 (41 x 41mm) Series Channels as column.

All holes are 14mm in diameter to use 12mm hex bolt.

All support systems except DEB uses channel nut to fix tray to support. Ref. Page No: 19 for details.

Prod. Code	L	UDL *	Weight in KG	
DEA	130	312	0.41	
DEA	230	156	0.60	
DEA	330	104	0.81	
DEA	480	78	1.02	
DEB DEB DEB DEB DEB DEB DEB	130 180 230 330 480 630 780	170 160 155 140 110 100 130	0.30 0.40 0.60 0.80 1.20 2.40 3.90	DEA
DEC	180	550 °	0.64	
DEC	230	370	0.80	
DEC	330	270	1.10	
DEC	480	175	1.50	
DEC	630	140	1.80	
DED DED DED DED DED DED DED	180 230 330 480 630 780 930	750 ° 660 ° 600 ° 380 305 210 175	1.20 1.60 2.00 2.80 3.60 4.60 5.40	DEB
DEE	180	550 °	1.20	DEC DEC
DEE	230	370	1.40	
DEE	330	270	1.70	
DEE	480	175	2.10	
DEE	630	140	2.40	
DEF	180	390 °	0.54	L
DEF	230	310	0.70	
DEF	330	245	1.00	
DEF	480	190	1.40	
DEG	180	550 ^a	0.84	DED DED
DEG	230	370	1.00	
DEG	330	270	1.30	
DEG	480	175	1.70	
DEG	630	140	2.00	
DEH	180	550 °	0.64	L
DEH	230	370	0.80	
DEH	330	270	1.10	
DEH	480	175	1.50	
DEH	630	140	1.80	
DEJ	330	750 ^a	1.70	DEE
DEJ	480	500 ^a	2.40	
DEJ	630	375	2.80	
DEJ	780	300	3.80	
DEJ	930	200	4.50	
DEK	330	454 a	1.20	
DEK	480	320	1.60	
DEK	630	246	1.90	
	DEA DEA DEA DEA DEA DEB DEB DEB DEB DED DED DED DED DED DED	DEA	DEA 130 312 DEA 230 156 DEA 330 104 DEA 330 104 DEA 480 78 DEB 130 170 DEB 180 160 DEB 230 155 DEB 330 140 DEB 480 110 DEB 630 100 DEB 780 130 DEC 180 550° DEC 230 370 DEC 330 270 DEC 480 175 DEC 630 140 DED 180 750° DED 330 660° DED 230 660° DED 330 600° DED 330 600° DED 330 500° DED 330 500° DED 780 210 DED 930 175 DEE 180 550° DEE 330 270 DEE 330 270 DEC 500° DED 780 210 DED 930 175 DEE 180 550° DEE 30 370 DEE 30 270 DEE 480 175 DEE 630 140 DEF 330 245 DEF 330 245 DEF 330 270 DEG 330 270 DEG 480 175 DEG 630 140 DEH 180 550° DEG 330 270 DEG 330 270 DEG 330 270 DEG 480 175 DEG 630 140 DEH 180 550° DEG 330 270 DEG 480 175 DEG 630 140 DEH 180 550° DEG 370 DEG 380 270 DEG 480 175 DEG 630 140 DEH 230 370 DEH 330 270 DEH 330 270 DEH 480 175 DEH 630 140 DEJ 330 750° DEJ 480 500° DEJ 930 200 DEK 330 454° DEJ 930 200	DEA 230 156 0.60 DEA 230 156 0.60 DEA 330 104 0.81 DEA 480 78 1.02 DEB 130 170 0.30 DEB 180 160 0.40 DEB 230 155 0.60 DEB 330 140 0.80 DEB 480 110 1.20 DEB 630 100 2.40 DEB 780 130 3.90 DEC 180 550 0.64 DEC 230 370 0.80 DEC 480 175 1.50 DEC 630 140 1.80 DED 330 660 0 2.80 DED 230 660 0 2.80 DED 330 600 0 2.80 DED 330 600 0 2.80 DED 780 210 4.60 DED 780 210 4.60 DED 780 210 4.60 DED 780 210 4.60 DED 780 270 1.70 DEE 630 370 1.40 DEE 630 370 1.40 DEE 180 550 0 1.20 DED 780 210 4.60 DEE 330 370 1.40 DEE 480 175 2.10 DEE 630 140 2.40 DEE 480 175 1.70 DEE 630 140 2.40 DEE 480 190 1.40 DEE 480 190 1.40 DEE 480 190 1.40 DEE 480 175 1.70 DEE 630 140 2.00 DED 630 370 0.80 DED 780 200 1.30 DED 780 200 1.30 DEB 480 190 1.40 DEE 480 190 1.40 DEE 480 175 1.70 DEE 480 190 1.40 DEE 480 175 1.70 DEE 480 175 1.50 DEE 480 175 1.70 DEE 480 175 1.50 DEE 480 176 1.50 DEE 480

^{*} Uniformly Distributed Load in Kgf

Note: Cantilever arms longer than 930mm is available with supporting members to increase safe working load. Contact Sale desk for details. Load Details shown is for guidance only.

^a Slip Limit Loading Capacity



Delta Cable Surface Trunkings

To BS 4678 & BSEN 50085

We also offer:

Weather proof trunking | Light trunking | Raised floor trunking | Under floor trunking | Flush floor trunking | Skirting trunking | Dado trunking | Bench trunking

Delta Cable Trunking

Metallic Delta cable Trunking is a quick economical way of carrying electrical wires, telecommunication cables as well as computer cables. Trans Delta offers a variety of trunkings ranging from normal surface trunking to floor distribution system.

Delta cable trunking is made as per BS 4678 part-1. All the covers are fitted with quick turnbuckle for fixing the cover. This enables easy and quick way of fixing covers. All fittings have integral coupler and gusseted construction to allow smooth turning of wires. Where ever possible all fittings are made of state of art single piece construction.

Product specification

Material and Finish (See Page No: 6 for details)

- Pregalvanized steel or hot dip galvanized before fabrication (HDGBF) as per BS EN 10327
- Hot Dip Galvanized after Fabrication (HDGAF) as per BS EN 1461
- Epoxy polyester Powder coated to any RAL colour
- Aluminium Cable trunking
- Stainless Steel cable trunking to AISI 304 and AISI 316L

Aluminium and Stainless Steel Trunking are available in Screw type lid with M4 Pan head screws.

Sizes available

Width x Depth in MM

50×50	150×50	200×100
75×50	150×75	200×150
75×75	150×100	200×200
100×50	150×150	300×100
100×75	200×50	300×150
100×100	200×75	300×300

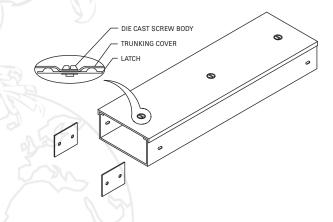
Length

3 mtr as standard. Other lengths are also available.

Type

Single or multi compartment Trunking

Standard truking with single compartment



Studded type Coupling holes on trunking fittings is available on request.

Supplied with cover, plate coupler in pairs and fastenings of M6x12mm roofing bolt, nut and washer.

Refer page No: 30 for multi compartment trunking

Customers who need any particular spangle design on galvanized sheet should mention it while ordering.

- Commercial Tolerance on Thickness Apply.
- Dimensional tolerance is applicable on all product dimensions

Delta Cable Trunking

Cable Capacities of standard Delta Trunking

Trunking				1:	С	onducto	r size sq	. mm				
Size	1.0	1.5	2.5	4.0	6.0	10.0	16.0	25.0	35.0	50.0	70.0	95.0
50 x 50	138	123	98	67	52	33	24	16	12	9	7	5
75 x 50	208	185	148	101	79	51	37	24	18	13	10	7
75 x 75	312	278	221	152	118	76	655	37	28	20	16	11
100 x 50	277	247	197	135	95	67	49	39	25	18	14	10
100 x 75	516	370	296	203	158	101	74	49	37	27	21	15
100 x 100	555	484	394	271	211	135	98	66	50	37	28	21
150 x 75	624	556	443	304	237	152	111	74	56	41	32	24
150 x 100	833	741	592	406	316	203	148	99	75	55	42	31
150 x 150	1250	1112	888	609	475	305	222	145	112	83	54	47

Material Gauges

DELTA - Cable Trunking STANDARD THICKNESS AS PER BS 4678						
Trunking Size mm	Min. Body Thickness	Min. Cover Thickness				
50 x 50	1.0	1.0				
75 x 50	1.2	1.2				
75 x 75	1.2	1.2				
100 x 50	1.2	1.2				
100 x 75	1.2	1.2				
100 x 100	1.2	1.2				
150 x 50	1.2	1.2				
150 x 75	1.2	1.2				
150 x 100	1.2	1.2				
150 x 150	1.4	1.2				

STANDARD THICKNESS AS PER BS 4678					
Trunking Size mm	Min. Body Thickness	Min. Cover Thickness			
200 x 100	1.6	1.4			
225 x 50	1.6	1.4			
225 x 75	1.6	1.4			
225 x 100	1.6	1.4			
225 x 150	1.6	1.4			
225 x 225	1.6	1.4			
300 x 50	1.6	1.6			
300 x 75	1.6	1.6			
300 x 100	1.6	1.6			
300 x 150	1.6	1.6			
300 x 300	2.0	1.6			

DELTA - Cable Trunking

Subject to the customer requirement other thickness can be manufactured on requests.

Trunking system complies with BS 4678 for minimum thickness of body and cover.

For multi compartment trunking partitions normal thickness is 1.0mm

Commercial tolerance on Sheet thickness apply.

Contact Sales Desk for Various fitting thickness.

-27-

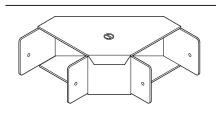
A

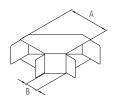
B : :0:: : : : : : : : :

~··~·· ~ ~ ~ ~ ~

90° Bend

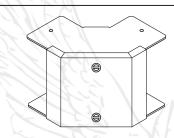
Cover on Top





WIDTH	Α	В
50	85	35
100	110	35
150	185	35
200	235	35
300	335	35

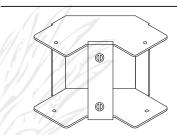
Cover on Outside





	WIDTH	Α	В
	50	85	35
ļ	100	110	35
	150	185	35
	200	235	35
	300	335	35

Cover on Inside

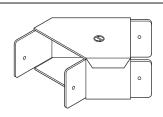




WIDTH	Α	В
50	85	35
100	110	35
150	185	35
200	235	35
300	335	35

45° Bend

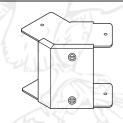
Cover on Top

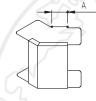




WIDTH	Α	
50	35	
75	35	
100	35	
150	35	
200	35	
300	35	

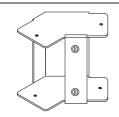
Cover on Outside

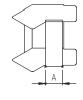




WIDTH	Α
50	35
75	35
100	35
150	35
200	35
300	35

Cover on Inside

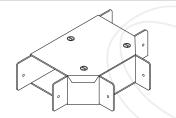


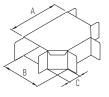


WIDTH	Α
50	35
75	35
100	35
150	35
200	35
300	35

Tees

Cover on Top





WIDTH	Α	В	С
50	120	85	35
75	145	110	35
100	170	135	35
150	220	185	35
200	270	235	35
300	370	325	35

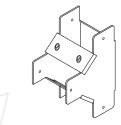
Cover on Outside

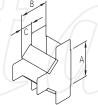




		/ /	1 1
WIDTH	Α	В	С
50	120	85	35
75	145	110	35
100	170	135	35
150	220	185	35
200	270	235	35
300	370	325	35

Cover on Inside





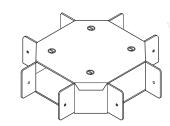
	WIDTH	Α	В	С	
	50	120	85	35	
	75	145	110	35	
	100	170	135	35	
/	150	220	185	35	
(200	270	235	35	
	300	370	325	35	

- Note 1 Square type fittings are also available on request.
- Note 2 Two 45° Bends can be connected to each other with a fitting Adaptor (Page No : 32) to get a big radius bend.

Cross

Horizontal Offset

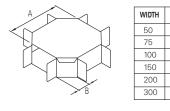
Vertical Offset

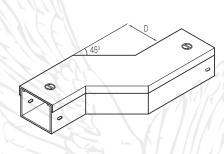


145 35

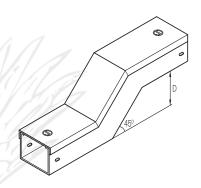
270 | 35

370





D - Offset Distance (Max 300mm)



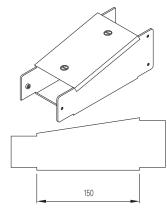
D - Offset Distance (Max 300mm)

While ordering horizontal and vertical offset mention distance 'D' required. Two 45° bends can be connected together with a fitting adaptor (Page No: 32) to get an offset where offsetting distance is very less. Contact Sales Desk for Long Offset Distance Solution.

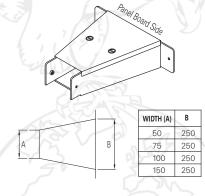
Reducer

Bell Mouth

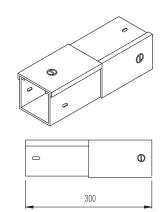
Change Face Right



Always mention big size first while ordering

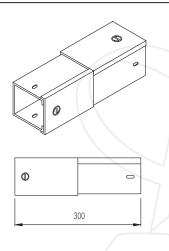


Used to connect Trunking to Panel Board. For narrow size panel board give details of B

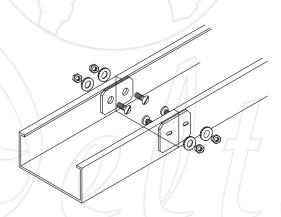


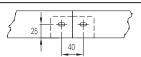
Change Face Left

Coupler Details

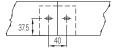


 Note: Change face not available in Compartment Trunkings.

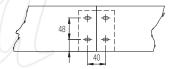




50 mm height trunking joints with 4 Numbers of m6 x 12mm roofing bolt, nut and washer



75 mm height trunking joints with 4 Numbers of m6 x 12mm roofing bolt, nut and washer



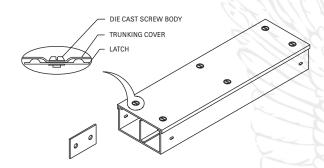
100 mm height trunking joints with 8 Numbers of m6 x 12mm roofing bolt, nut and washer

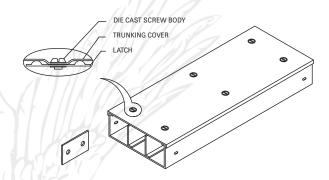
Standard Multi compartment Trunkings

- Available in 2 or 3 or 4 compartments.
- 100 mm Width trunking available only with 2 compartments.

Can be ordered with beading on divider strip. Divider thickness is 1mm.

For unequal compartment details of spacing is to be given while ordering.





Various Multi Compartment trunking fittings are available on request.

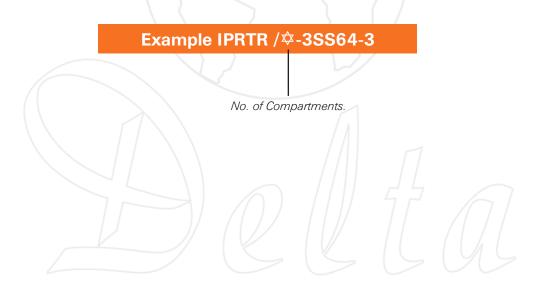
Flyovers are recommended for compartment trunking tee and cross fittings. But should keep in mind that cable carrying capacity is halved in flyovers. Contact sales desk for details.

Divider strips are spotted to body usually. Loose divider strips are also available for site fixing on special request. Contact sales desk for any special design.

New

Divider can be fixed through new metal locking system where a little unevenness of the surface is not a problem. This system is having less expose area.

Please specify the No. of Compartment in the Catalogue.



How to Order Straight Length & Fitting

Bas	e Metal	<u> </u>	Finish		Туре
Mild Steel Aluminium S/Steel 316L S/Steel 304	1 2 3 4	Mild Steel HDGBF HDGAF Stainless Stee Aluminium Normal Finish	P G	Return edge Trunking	R
	Item		Thickness	Ele	ements
Trunking	TR	1.00 mm 1.20 mm 1.50 mm 2.00 mm	1 2 3 4	Straight Length 90° Bend Tee Unequal Tee Cross Unequal Cross Horizontal Offset Vertical Offset Straight Reducer Bell Mouth Change face right	SS 9H HT HUT HC HUC HOF VOF RS BM FR
	Width	The state of the s	Depth		Length
50 75 100 150 200	2 3 4 6 8	50 75 100 150 200	2 3 4 6 8	2.44 Meter - 3.0 Meter	2.44
Position of (7	Ероху	finish if required	
T Cover on Top I Cover on Inside O Cover on Outside					

For Straight Length Trunking

Mention first 9 Columns Continuously and Epoxy finish if required.

Eg. of Straight Section Trunking 50 x 50mm for 1.2mm thickness

1PRTR-2SS22-3-E (If Required)

For Fittings

Mention first 4 Columns and then elements, width, depth and position of cover - Epoxy finish if required. Eg. of Trunking Fittings for 50 x 50mm in 1mm thickness

1PRTR-9H22-T-1-E (If Required)

Note 1. Please specify offset distance in inches within brackets at the end while ordering offsets.

Note 2. In case of multi compartment trunking, Please mention the number of compartments after RTR in cat. No with "/" and the "number".

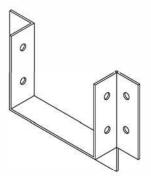
eg. 1PRTR / 3 - 2SS 64 - 3

Note 3. For elements other than 90° use 4H - 45° Note 4. For change face left - FL

-31-

Accessories for installation of cable Trunking

Wall Flange



Uses where one end of the Trunking rests on the wall.

Socket Plate



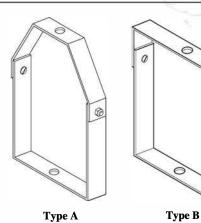
Specify the type of socket going to use

Fitting Adaptor



Connects two trunking fittings

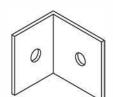
Suspension Hanger



Maximum Dia of threaded rod can be used is 10mm. Top and Bottom Pieces joined together with 2 sets of M6 x 12 mm Roofing Bolt, Nut and Washer.

Angle Connector



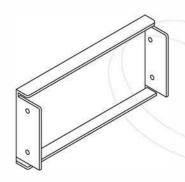


Supplied in pairs. Uses M6 x 12 mm size Roofing Bolt, Nut and Washer to connect to trunkings.

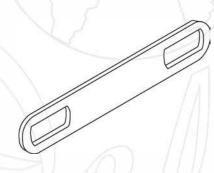
Blind End

Earth Continuity Connector

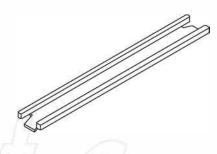
Cable Retainer



Mention Width and Height Trunking while order. Install where the routing of cable terminates.



Available in Electro tinned finish with C to C distance of 35 mm.



Locks in the flange of trunking. Avoid the falling of cables during laying.

How to Order - Accessories

Product	Base Metal (1,2,3,4&5) Ref. Page 15	Finish (P,G,M)	Туре	Item	Width (Ref. Page31)	Depth (Ref. Page31)	Abbreviation
Wall Flange	✓	✓			✓	✓	WF
Socket Plate	✓		[3]		✓	4/1	SP
Fitting Adaptor	✓	~	29/3/		4//8//		FA
Suspension Hanger	√	~	R	TR	1	4	SH
Angle Connector	✓	1			1467	√	AC
Blind End	✓	1		i h	2504	✓	BE
Cable Retainer	✓	1			✓	-	CR

Tick mark shows the relevant parameters against each products.

Example of Accessories

1PRTR-22-BE-E (If Required)

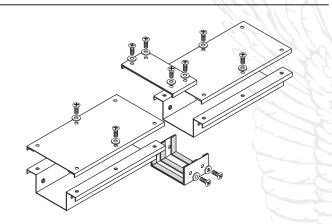
How to order Earth continuity connector ECC-50

Manufacturer reserves the right to change the design without any notification.

Weather proof and Lighting Trunking

Weather proof trunking and fittings are available where dust and water should be avoided from getting into the system. This trunkings are fitted with gaskets and made with outward flange design enables a tight sealing.

Weather Proof Trunking



Standard length: 3 Meter

Standard Finish : Pregalvanized Steel

As per BS EN 10142

Supplied in : Screw type fixing cover

For Ordering Weather proof Trunking add W P instead of T R in the coding of normal Trunking.

Various Weather Proof Trunking Fittings are available on request.

E.g of Straight Section

1PRWP-1SS44-3-E (If Required)

INGRESS PROTECTION (IP) RATINGS:

IP Ratings consist of 2 or 3 numerals. Each individual numeral indicates a protection level against certain types of attacks. Each numeral is independent of the other. Consult the tables below for explanations of the significance of the 1st Numeral and the 2nd Numeral.

IP 20 Protected against penetration by solid matter with dimensions greater than 12mm dia. It is not protected against liquid penetration.

IP 23 Protected against penetration by solid matter with dimension greater than 12mm dia. Protected against rain.

IP 40 Protected against penetration by solid matter with dimension greater than 12mm dia. It is not Protected against liquid penetration.

IP 41 Protected against penetration by solid matter with dimension greater than 1mm dia. It is protected against transverse rain up to a maximum of 15 degree.

IP 43 Protected against penetration by solid matter with dimension greater than 1mm dia. Protected against rain.

IP 44 Protected against penetration by solid matter with dimension greater than 1mm dia. Protected against sprays of water.

IP 54 Protected against quantities of dust that could interface with satisfactory operation. Protected against sprays of water.

IP 65 Completely dust proof. Protected against jet of water.

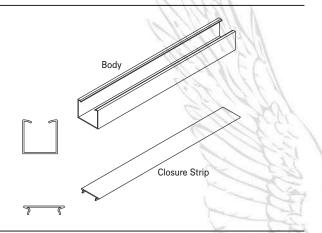
IP 66 Completely dust proof. Protected against high pressure water jets.

IP 67 Completely dust proof. Protected against temporary immersion.

IP 68 Completely dust proof. Waterproof light fixtures for underwater lighting (Allowable depths given in meters)

Lighting Trunking

Lighting Trunking



Standard length: 5 Meter

Standard Finish : Pregalvanized Steel

As per BS EN 10142

Epoxy Coated to any

RAL Color

Standard : 1 mm for Body and

Thickness Closure strip

Standard Size : 50 x 50 mm

For Ordering Lighting Trunking add L T instead of TR in the coding of normal Trunking.

Closure strip is available in GI and PVC finish in 2 meter length.

E.g of Straight Section

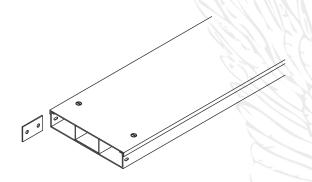
1PRLT-1SS22-3-E (If Required)

Various Lighting Trunking Fittings are available on request.



Raised Floor / Cavity Floor Trunking

Raised floor Trunking gives a high degree of flexibility and uses where frequent design changes and maintenance comes.



Width	Height	Catalogue No.
100	50	RFT/*-100-50
150	50	RFT/*-150-50
200	50	RFT/*-200-50
300	50	RFT/*-300-50
450	50	RFT/*-450-50

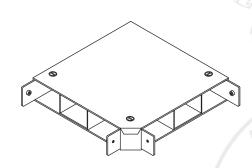
*No of Compartment

Standard length: - 3 mtr. Side Height:- 50 mm

No. of compartments: - 2, 3 & 4

knockout of 20 & 25mm can be manufactured to the customer requirement.

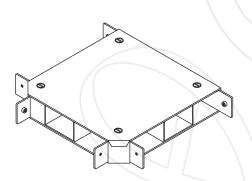
90° Horizontal Bend



Width	Height	Catalogue No.
100	50	RFT/*-9H 100-50
150	50	RFT/*-9H 150-50
200	50	RFT/*-9H 200-50
300	50	RFT/*-9H 300-50
450	50	RFT/*-9H 450-50

*No of Compartment

Horizontal Tee



Width	Height	Catalogue No.
100	50	RFT/*-HT 100-50
150	50	RFT/*-HT 150-50
200	50	RFT/*-HT 200-50
300	50	RFT/*-HT 300-50
450	50	RFT/*-HT 450-50
/ / / /		

*No of Compartment

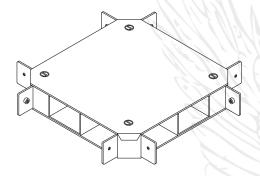
All Trunking and Components are manufactured from pre-galvanized sheet steel to BS EN 10142 in the following thickness.

100 to 200mm width - 1mm thick body and cover.

300 to 450mm width - 1.2mm thick body and 1mm cover

Raised Floor / Cavity Floor Trunking

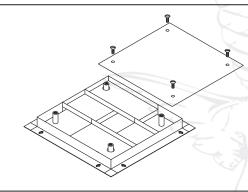
Cross



Width	Height	Catalogue No.
100	50	RFT/*-HC 100-50
150	50	RFT/*-HC 150-50
200	50	RFT/*-HC 200-50
300	50	RFT/*-HC 300-50
450	50	RFT/*-HC 450-50

*No of Compartment

Junction Box



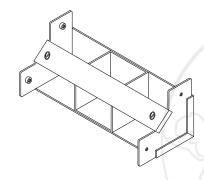
Width	Height	Catalogue No.
200	50	RFT/*-JB 200-50
300	50	RFT/*-JB 300-50
450	50	RFT/*-JB 450-50

^{*}No of Compartment

A Junction Box can act as a bend, Tee and Cross with flyover system fixed inside.

Minimum Material Thickness should be 1.2mm

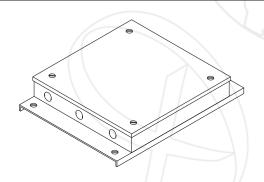
Inside Riser



14	Width	Height	Catalogue No.
	100	50	RFT/*-9RI 100-50
1	150	50	RFT/*-9RI 150-50
Ç	200	50	RFT/*-9RI 200-50
	300	50	RFT/*-9RI 300-50
	450	50	RFT/*-9RI 450-50

*No of Compartment

Tap of Box



Width	Height	Catalogue No.
100	50	RFT/*-TB 100-50
150	50	RFT/*-TB 150-50
200	50	RFT/*-TB 200-50
300	50	RFT/*-TB 300-50
450	50	RFT/*-TB 450-50

*No of Compartment

All Trunking and Components are manufactured from pre-galvanized sheet steel to BS EN 10142 in the following thickness.

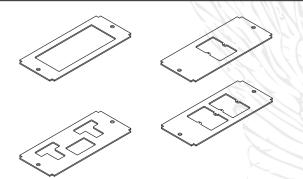
100 to 200mm width - 1mm thick body and cover.

300 to 450mm width - 1.2mm thick body and 1mm cover.

Raised Floor / Cavity Floor Trunking Accessories

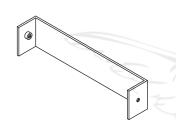
Give details of socket for which socket plate is to be manufactured. Normally available in epoxy finish.

Socket Plates



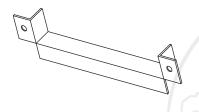
Туре	Catalogue No.
Data	RFT / * - SP - D
Power	RFT / * - SP - P
Communication	RFT / * - SP - C

Blind End



Width	Height	Catalogue No.
100	50	RFT/*-BE 100-50
150	50	RFT/*-BE 150-50
200	50	RFT/*-BE 200-50
300	50	RFT/*-BE 300-50
450	50	RFT/*-BE 450-50

Wall Flange



Width	Height	Catalogue No.
100	50	RFT/*-WF 100-50
150	50	RFT/*-WF 150-50
200	50	RFT/*-WF 200-50
300	50	RFT/*-WF 300-50
450	50	RFT/*-WF 450-50

Service Outlet Box with Moulded Carpet Rim

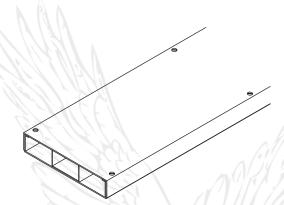
Suitable for 3 compartment & 4 compartment Trunking. Have 7mm Recess on the lid for carpet. Accommodate 87mm width 3 plates and 65mm width 4 plates. Provided with 20 and 25mm knockouts for flexible conduits. Socket plates to be ordered separately.



No. of Comp.	Catalogue No.
3 Comp.	RFT / 3 - SB - M
4 Comp.	RFT / 4 - SB - M

Under Screed / Buried Screed Trunking

Under Screed Trunking is use to supply power, data & telecommunication cables in a floor system where the cable layout is pre determined. Supplied with cover, coupler and fastenings.

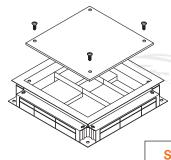


Standard length: 3 mtr.
Side Height: 38 mm
No. of compartments: 3 & 4

Size	Catalogue No.
225X38	UFT / * - 225 - 38

*No of Compartment

Junction Box



Size	Catalogue No.
225X38	UFT/* - JB225-38

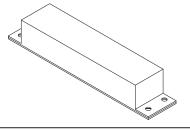
Vertical access box



Size	Catalogue No.	
225X38	UFT/* - VAB-225-38	

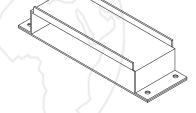
Blind End



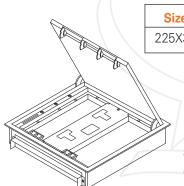


Coupler

Size	Catalogue No.	
225X38	UFT/* - CS-225-38	



Service Outlet Box with Mould Carpet Rim



Size	Catalogue No.
225X38	UFT /* - SB - 225-38

Socket plates to be ordered separately.

Material Specification

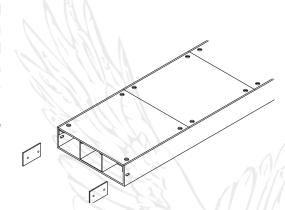
All trunking and components are manufactured from pre-galavanized sheet steel to BS EN 10142 in the following thicknesses.

Cover	1.00mm
Body	1.20mm
Divider	1.00mm

Junction Box can act as Bend, Tee, Cross and a Straight through connection as per situation

Flush Floor Trunking

Flush floor Trunking is used where Top of the Trunking will be in flush with Screed height and the position of Trunking and accessories are pre-determined. Supplied with cover, plate coupler and fastenings.

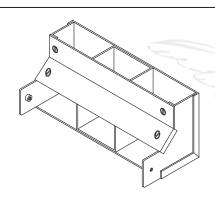


Standard length: - 2.44 mtr. Cover: - 6 Numbers of modular cover with size of 406 x 300mm No. of compartments: - 3 & 4

Size	Catalogue No.
300X65	FFT / *-300-65

*No of Compartment

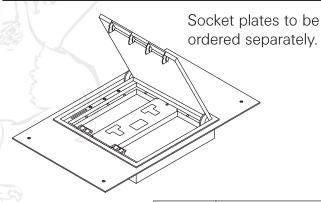
Inside Riser



Size	Catalogue No.
300x65	FFT / *-9RI300-65

*No of Compartment

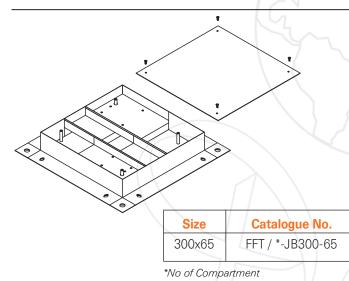
Service Outlet Box with Moulded Cover



Size	Catalogue No.
300x65	FFT / *-SB-M

*No of Compartment

Junction Box



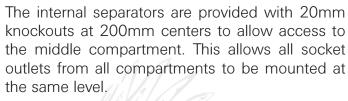
Material specification

All trunking and components are manufactured from pre-galavanized sheet steel to BS EN 10142 in the following thicknesses.

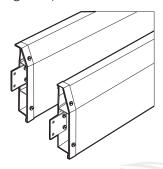
Cover	2.5 mm
Body	1.5 mm
Divider	1.2 mm

Note: Junction box can act as tee, bend and cross and a straight through connector as per situation.

Supplied in standard 3 meter lengths in two and three compartment options, each length is supplied completed with connector, cover and cover fixing strap.



The cover fixing straps allow for easy positioning of socket outlet plates, eliminating the need for drilling when on site cutting is required.



Width mm	Depth mm	Thickness mm	Two Compartment	Three Compartment
150	38	1.20	ST / 2 - 150 - 38	ST / 3 - 150 - 38
200	38	1.20	ST / 2 - 200 - 38	ST / 3 - 200 - 38

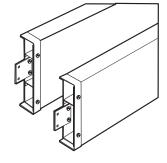
Dado trunking

Dado trunking is used to supply power, telephone and data services around the perimeter of office accommodation.

Supplied in standard 3 meter lengths in two and three compartment options, each length is supplied complete with connector, cover and cover fixing strap.

The internal separators are provided with 20mm knockouts at 200mm centers to allow access to the middle compartment. This allows all socket outlets from all compartments to be mounted at the same level.

The cover fixing straps allow for easy positioning of socket outlet plates, eliminating the need for drilling when on site cutting is required.

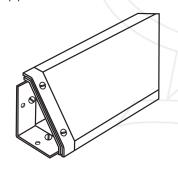


Width mm	Depth mm	Thickness mm	Two Compartment	Three Compartment
100	30	1.20	DT / 2 - 100 - 38	DT / 3 - 100 - 38
150	38	1.20	DT / 2 - 150 - 38	DT / 3 - 150 - 38
200	38	1.20	DT / 2 - 200 - 38	DT / 3 - 200 - 38

Bench trunking

Bench trunking is used to supply power services to remote bench units mainly in school, university, laboratory and workshop environments.

Supplied in standard 3 meter lengths, each length



is supplied complete with connector, cover and cover fixing strap.

The cover fixing straps allow for easy positioning of socket outlet plates and eliminates the need for drilling when on cutting is required.

Width mm	Depth mm	Thickness mm	Single Compartment
90	90	1.20	BT / 1 - 90 - 90





Delta Cable Ladder

As per BSEN 61537

Delta Cable Ladder

Metallic Delta cable Ladders are manufactured as per BSEN 61537 for the smooth and easy pulling of cable from one point to another. We have designed the best cable ladders, by taking care of Cable loads and practical site problems. The rungs are heavy duty strut channels which provides a heavy support to the cables even in wider ladders. Delta cable ladder is having maximum Cable loading depth by fixing rungs at the lowest point of side rails. Spacings of rungs are done in such a way that it enables the dropping of any large diameter cables.

Product Specification

Material and Finish (See Page No: 6 for details)

- Pregalvanized Steel or hot dip galvanized before fabrication (HDGBF) as per BS EN 10142
- Hot dip Galvanized after fabrication (HDGAF) as per BS EN 1461
- Epoxy polyester Powder coated to any RAL colour,
- Aluminium Cable ladder
- Stainless Steel cable ladder to AISI 304 and AISI 316L (After welding passivation is done at weld area locally)

Types available

- 1. C Type
- 2. R Type
- 3. P Type

Standard Widths available in Cable Ladder

	Width in mm	4
100	150	200
300	450	600
750	900	1000

Sizes other than this also available on customer request

Side Heights Available

50, 75, 100, 125, 150 mm

Loading Depth

To get a loading depth of a particular side height substract 25 mm. This is the usage height for the cable laying. A clearance of \pm 3mm should be considered in loading depth dimension.

Length

3 Meter as standard. Other lengths are also available.

Rungs Spacing

300 mm Standard, with slot size of 13 x 30 mm

Refer Page No: 49 for various other rungs spacing.

Note: Ladder is not meant for torsional rigidity. Cannot be used as a walkway. Aluminium ladders are available in riveted condition

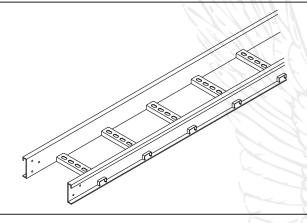
- Commercial Tolerance on Thickness Apply.
- Dimensional tolerance is applicable on all product dimensions

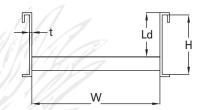
-44

Delta Cable Ladder

Couplers should be ordered separately. Available Thickness is 2mm

Type C

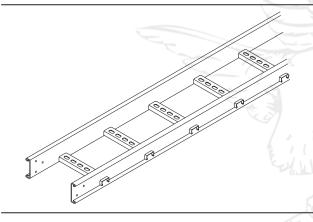


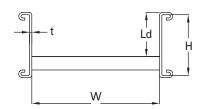


Ld = Loading Depth (Usable Height)

Width and Height are the inside dimension of the ladder

Type R

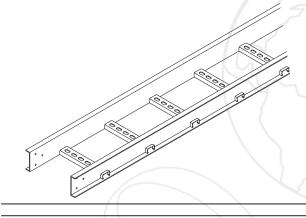


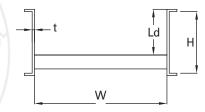


Ld = Loading Depth (Usable Height)

Minimum side height available is 100 mm

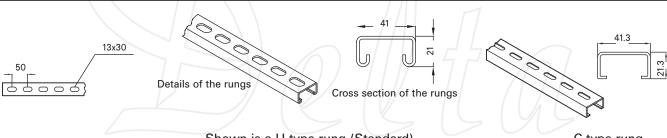
Type P





Ld = Loading Depth (Usable Height)

Slot Size



Shown is a U type rung (Standard)

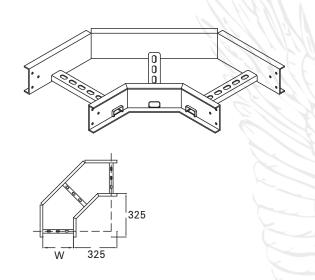
C type rung

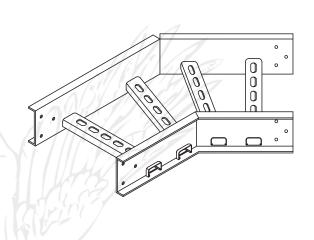
We have Marine Ladder also in our product range. Contact Sales Desk for Details

Delta Cable Ladder Fittings

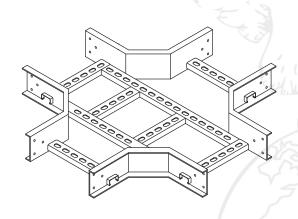
90° Horizontal Bend

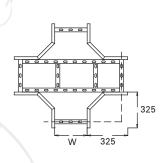
45° Horizontal Bend





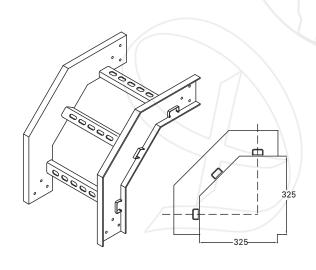
Horizontal Cross

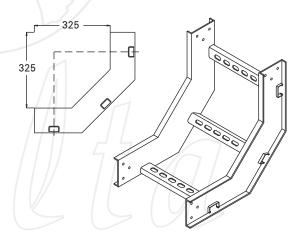




90° Riser Outside

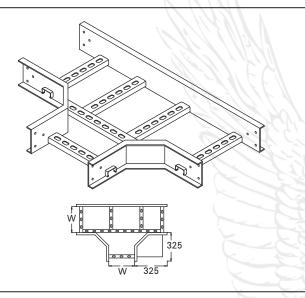
90° Riser Inside



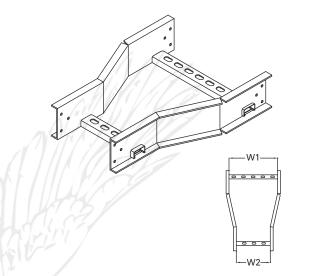


Delta Cable Ladder Fittings

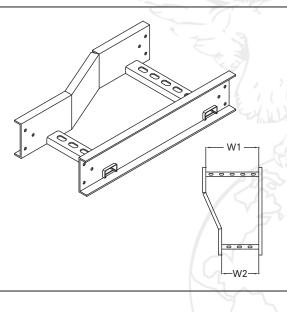
Horizontal Tee



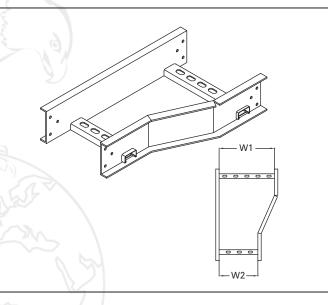
Straight Reducer



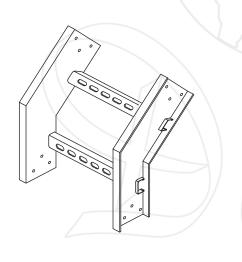
Left Hand Reducer



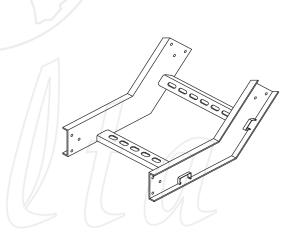
Right Hand Reducer



45° Riser Outside

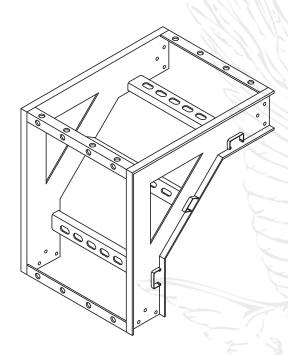


45° Riser Inside



Delta Cable Ladder Fittings

90° Vertical Support Elbow

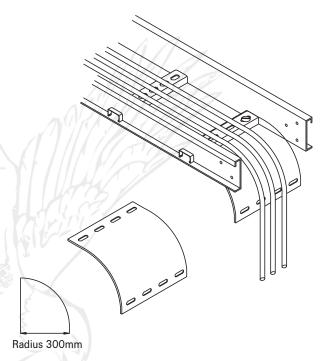


Give a rigid support to cable while dropping down through the wall

Vertical Tee

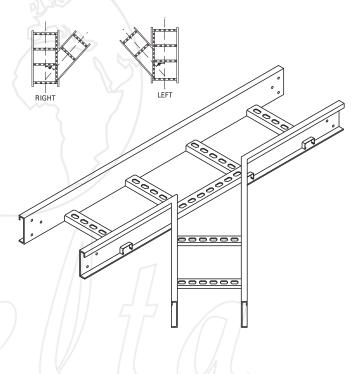


Dropout



Material Thickness is 2 or 1.5 mm Depending on width

45° 'Y' Branch



Available Left & Right. Shown is a Left Y Branch

How to Order Delta Cable Ladder and Fittings



For Straight Section

Mention first 10 Columns Continuously and Epoxy finish if required.

Eg. of Straight Section for 2mm thickness

1GCU-4SS300-4-30-3-E (If Required)

For Fittings

Mention first 4 Columns and then elements, width, side height and Radius of curvature - Epoxy finish if required. Eg. of fittings for 2mm thickness

1GCU-9H300-4-3-4-E (If Required)

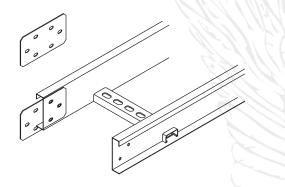
- As it is from the mill, without any further coating.
- 2. For elements other than 90° use 4H 45°, 6H 60° 3. For left reducer LR. Right reducer RR

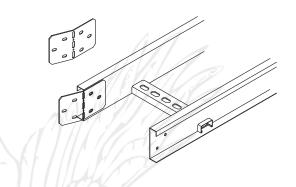
Cable Ladder Accessories and Cover Fixing Arrangements

Couplers are supplied in pairs. Order 12 sets of M8 x 16mm Roofing bolt, Nut and Washer separately.

Standard Coupler

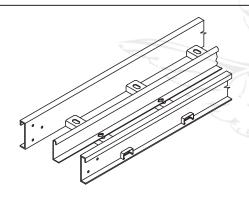
Adjustable Horizontal Coupler

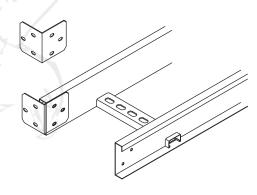




Divider

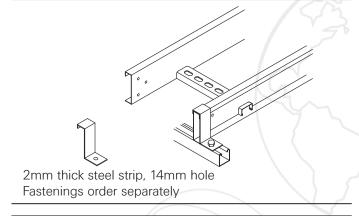
Angle Connector

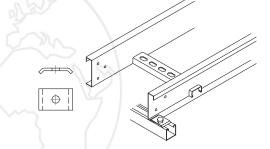




Raised Hold Down Clip

Hold Down Clamp

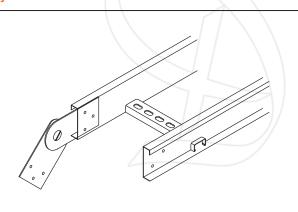




Normally 5mm thick steel strip, 14mm hole Contact Sales Desk for Stainless Steel & Aluminium Material Thickness

Adjustable Vertical Connector

Cover Fixing Arrangements



Side Cover Clamp should be ordered separately. Ladder ≤ 300 needs 4 nos of Clamps. 450 to 900mm needs 6 nos of Clamps.

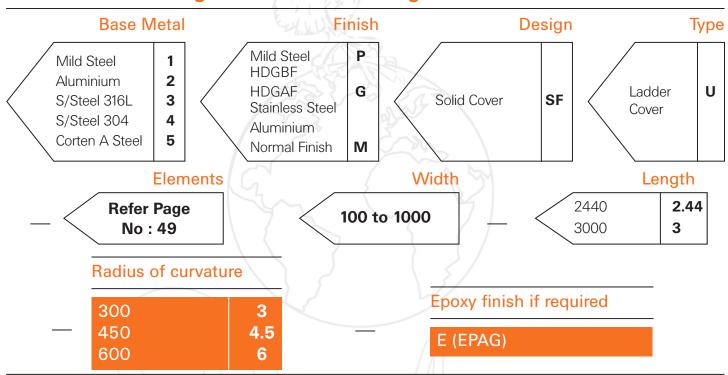
ク

How to order Cable Ladder Accessories

Product	Base Metal (1,2,3,4&5) Ref. Page 49	Finish (P,G,M)	Item Description	Width (100 - 1000) Ref. Page 49	Side Height of Ladder (50-150)	Length	Abbreviation
Standard Coupler	✓	\		-	✓	-	cs
Angle Coupler	✓		(6)	-	4	1 -	FC
Adj. Horizontal Coupler	✓	~	3/2/	- /n	18/4/14		AHC
Adjustable Vertical Coupler	√	1	U	ANN	1	-	AVC
Blind End	✓	√ (~		✓		-	EC
Drop Out	✓	√		1		-	DO
Divider	✓	1		1 1/1/2	2/ 🗸	3	DI
Raised Hold down Clip	✓	18		(CELT)	✓	-	HDL
Hold down Clamp	✓	√			-	-	HDC

Example for Accessories 1GU-300-DO-E (If Required)

How to Order Straight Section and Fittings Cover



For Fittings

Mention first 4 Columns and then elements, width, side height and radius of curvature - Epoxy finish if required.

Eg. of Straight Section Cover for 300mm Cable Ladder

1GSFU-SS300-3-4-E (If Required)

Eg. of Fittings Cover for 300mm Cable Ladder

1GSFU-9H300-3-4-E (If Required)

Delta Cable Ladder Support System

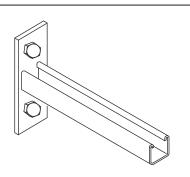
Cantilever arms

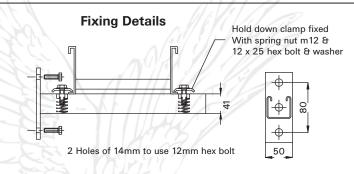
Note: While Ordering Cantilever arm for Ladder Add a Distance fo 150mm to the width of Ladder.

E.g: For 300mm Ladder DEC 450. More support options are available in

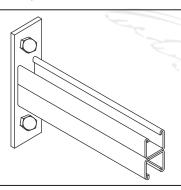
Page No: 24. Supplied without fastenings. Choose various type of fastenings from Page No: 61.

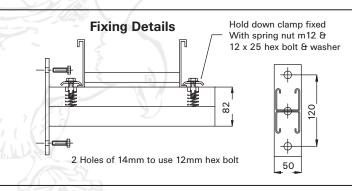
Type DEC (Single Cantilever arm)





Type DED (Double Cantilever arm)





How to order Support System for Cable Ladder



	Length
300	750
350	900
450	1050
600	1150





DEC
DED
DB 100 Series
DA 100 Series

E.g. of Support System for 300mm Ladder

1G-DEC450-4-E (If Required)

How to order Earth Continuity Connector

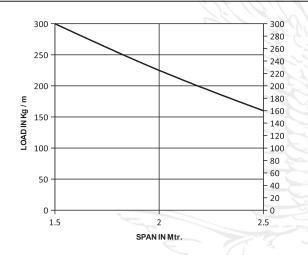
ECC-200 (200 mm long)

Load Graphs for Cable Ladder



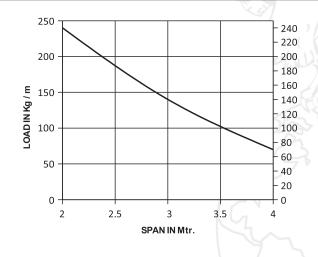
Results shown is for continuous, horizontally run, uniformly distributed load with a multiple span environment.

C Type Cable Ladder



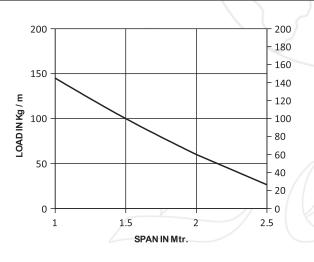
The loads above the graph line is unacceptable and below the line is **safe**.

R Type Cable Ladder



Desired coupler location is one quarter of the span length away from support point wherever possible.

P Type Cable Ladder



Should not extend the graph line to get another span v/s load position.

Load capacity shown excludes the weight of the cover.

Note: For guidelines only. Any claim for varied performance is not accepted.





with Brackets As per BS 6946 Delta Strut Channels are cold rolled from strip steel in the range of 2.5mm and 1.5mm to BS 6946. The profile remains through out the length to allow the use of channel nut in any position. This offers a simple, rigid and economical frame work system with the help of Delta Strut Brackets and Channel nut which avoids the welding at site.

Product Specification

Materials and Finishes available

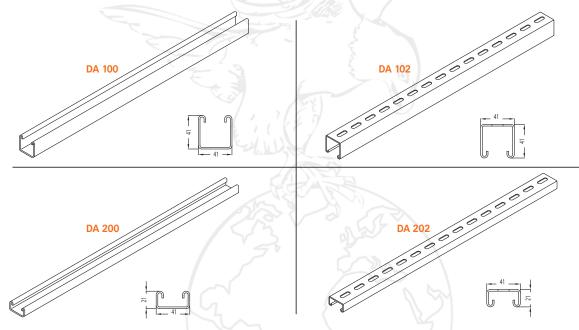
- Pregalvanized Steel or hot dip galvanized before fabrication (HDGBF) as per BS EN 10327
- Hot dip Galvanized after fabrication (HDGAF) as per BS EN 1461
- Epoxy polyester Powder coated to any RAL colour,
- Aluminium Strut Channel
- Stainless Steel Strut Channel to AISI 304 and AISI 316L

Sizes available

• 41 x 21 mm and 41 x 41 mm

Other Profiles also can be achieved through varies combination of the above profiles. Refer Page No: 57

Standard Length 3 Mtr, 6 Mtr Channel also available on request



Product Code

	DA 200	DA 201	DA 202	DB 200	DB 201	DB 202	DC 200	DC 202	DA 100	DA 101	DA 102	DB 100	DB 101	DB 102
Size	41x21	41x42	41 x 21	41x21	41x42	41x21	41x21	41x21	41X41	41X82	41 X41	41 X41	41X82	41 X 41
Thk.	2.50	2.50	2.50	2.00	2.00	2.00	1.50	1.50	2.50	2.50	2.50	2.00	2.00	2.00
Туре	Plain	W.B.B*	Slotted	Plain	W.B.B	Slotted	Plain	Slotted	Plain	W.B.B	Slotted	Plain	W.B.B.	Slotted

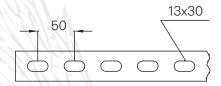
How to order



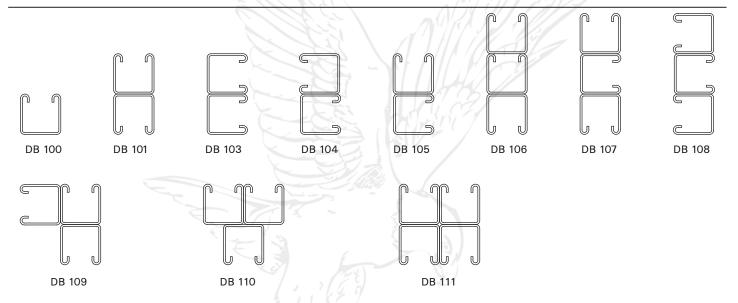
- Commercial Tolerance on Thickness Apply.
- Dimensional tolerance is applicable on all product dimensions

* W.B.B. means welded back to back.

Slotting Pattern



Combination Channels in DB 100 Series



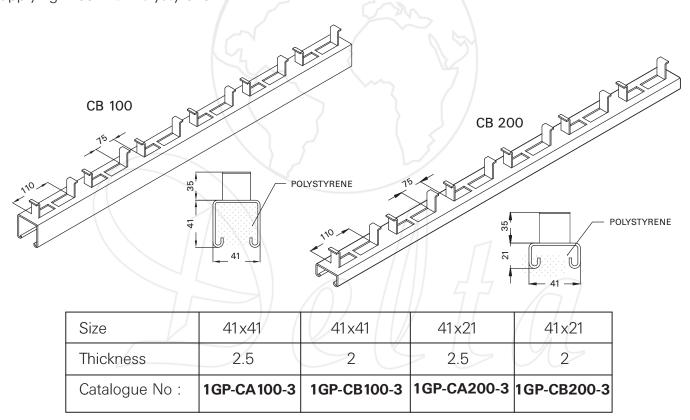
The above combination can be applied to DB 200 series also.

Concrete Inserts

Standard Finish - Hot dip Galvanized after fabrication (HDGAF) as per BS EN 1461.

Standard Length - 3 Meter.

Supplying filled with Polystyrene in fill.



Engineering Data

Channels

We have heavy gauged channels which are cold rolled from 2.5mm cold rolled steel under DA series

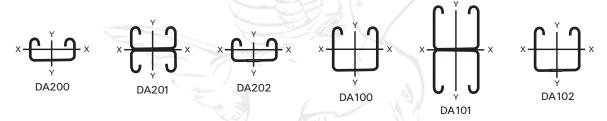
Light gauge channels are cold rolled from 1.5mm mild steel under DC series. However the profile will be the same.

Other than this we have medium gauged channels which are cold rolled from 2.0mm thick cold rolled steel under DB series

Back-to-back channels are formed by welding together two finished single channels under controlled conditions. All welds are suitably protected.

Standard lengths for single or multiple channels are 3m and 6m

Section Properties



Elements of Section	DA-100	DA-101	DA-102	DA-200	DA-201	DA-202
Axis x-x	6	The state of the s				
Center of Gravity 1 (mm)	23.20	41.30	21.32	12.29	20.60	12.27
Center of Gravity 2 (mm)	18.02	41.30	20.02	8.35	20.62	8.35
Moment of Inertia (cm ⁴)	7.20	36.28	6.11	1.19	0.64	0.98
Section Modulus (cm³)	3.11	8.78	2.87	0.96	2.72	0.88
Radius of Gyration (cm)	1.45	2.33	1.41	0.72	1.11	0.70
Moment (Nm)	496	1403	460	156	436	142
Axis y-y				\supset		
Moment of Inertia	9.22	18.45	9.17	5.32	10.68	5.29
Section Modulus	4.46	8.94	4.45	2.59	5.19	2.56
Radius of Gyration	1.66	1.66	1.74	1.51	1.51	1.62
I	1 (/ /	1	1

Weight of Channels in Kg/Mtr

Product Code	DB 200	DB 202	DA 200	DB 100	DB 102	DA 100
Weight in Kg/Mtr	1.5	1.4	1.9	2.2	2.0	2.7

Delta Strut Channel Load Capabilities

DA100 0.60 747 374 747 374 747 374 747 374 0.60 5 DA200 226 1113 226 113 228 114 228 114 228 114 2 DA101 \$\begin{array}{c c c c c c c c c c c c c c c c c c c	oad	Column L			ties	d Capabili	nnel Load	rut Cha	Delta Str	С		
Distance Between Distributed Between Supports Across Mid-Span Span kgf k	m		dition	ced Cor	erally Lock	Fully Late	lition	ock Conc	rally Unio	Late		
Between Distributed Load at supports Across Mid-Span Kgf K	ad			# / # / / L/# /	1		oan/200					
DA200	kgf	Height	Load at Mid-Span	Load	Load at Mid-Span	Distributed Across	Load at Mid-Span	Load	Load at Mid-Span	Distributed Across	Between Supports	Section
DA101	982	0.60	374	747	374	747	374	747	374	747	0.60	DA100
DA201	879											
DA100 0.80 543 271 543 271 560 280 560 280 0.80 5	1041											
DA200	308											
DA101	640										0.80	
DA201	867											
DA100 1.00 419 210 419 210 447 223 447 223 1.00 5 DA200 126 63 85 53 136 68 85 53 DA101	0621											
DA200	348										4.00	
DA101	102										1.00	
DA201	253											
DA100 1.20 336 168 336 168 371 186 371 186 1.20 44 DA200 101 50 58 36 113 56 58 36 8 DA101 \$\$^{8}800\$ 4440 \$\$^{8}800\$ 4440 969 484 969 484 DA201 270 135 270 135 301 151 277 151 33 DA100 1.40 275 138 271 138 317 159 271 159 1.40 3 DA200 83 41 42 26 96 48 42 26 6 DA101 723 361 723 361 829 414 829 414 82 DA201 221 111 202 111 257 128 202 126 DA100 1.60 230 115 206 115 277 139 206 129 1.60 2 DA200 69 35 31 19 83 42 31 19 DA200 69 35 31 19 83 42 31 19 DA101 604 302 604 302 723 362 723 362 62 DA201 185 93 153 93 224 112 153 95 DA100 1.80 194 97 162 97 245 123 162 101 1.80 2 DA200 59 29 23 15 73 37 23 15 DA101 510 255 510 255 541 321 641 321 54 DA201 157 79 119 74 198 99 119 74 DA100 2.00 165 83 130 81 220 110 130 81 2.00 1 DA201 135 67 94 59 177 88 94 59 110 DA201 135 67 94 59 177 88 94 59 110 DA201 135 67 94 59 177 88 94 59 1 DA101 434 217 434 217 575 288 575 288 DA101 371 186 371 186 521 261 521 261 DA201 137 68 76 47 159 80 76 47 DA100 2.40 123 61 87 55 182 91 87 55 2.40 1 DA201 16 58 76 47 159 80 76 47 DA100 2.40 123 61 87 55 182 91 87 55 2.40 1 DA201 16 58 76 47 159 80 76 47 DA100 2.40 123 61 87 55 182 91 87 55 2.40	0035											
DA200	346										1 20	
DA101	891	1.20									1.20	
DA201 270 135 270 135 301 151 277 151 3 DA100 1.40 275 138 271 138 317 159 271 159 1.40 3 DA200 83 41 42 26 96 48 42 26 6 DA101 723 361 723 361 829 414 829	9193											
DA100 1.40 275 138 271 138 317 159 271 159 1.40 3 DA200 83 41 42 26 96 48 42 26 6 DA101 723 361 723 361 829 414 829 414 DA201 221 111 202 111 257 128 202 126 DA100 1.60 230 115 206 115 277 139 206 129 1.60 2 DA200 69 35 31 19 83 42 31 19 DA101 604 302 604 302 723 362 723 362 DA201 185 93 153 93 224 112 153 95 DA100 1.80 194 97 162 97 245 123 162 101 1.80 2 DA200 59 29 23 15 73 37 23 15 DA101 510 255 510 255 641 321 641 321 DA201 157 79 119 74 198 99 119 74 DA100 2.00 165 83 130 81 220 110 130 81 2.00 1 DA200 51 25 18 11 66 33 18 11 DA101 434 217 434 217 575 288 575 288 DA201 135 67 94 59 177 88 94 59 DA100 2.20 142 71 106 66 199 100 106 66 2.20 1 DA200 44 22 14 9 59 29 14 9 DA101 371 186 371 186 521 261 521 261 DA200 116 58 76 47 159 80 76 47 DA100 2.40 123 61 87 55 182 91 87 55 2.40 14 DA200 116 58 76 47 159 80 76 47 DA100 2.40 123 61 87 55 182 91 87 55 5 2.40 15 DA201 116 58 76 55 182 91 87 55 5 2.40 15 DA200 2.40 123 61 87 55 182 91 87 55 5 2.40 15 DA200 38 19 11 7 5 53 27 11 7	803											
DA200 83 41 42 26 96 48 42 26 26 DA101 723 361 723 361 829 414 829 414 82 DA201 221 111 202 111 257 128 202 126 20 DA100 1.60 230 115 206 115 277 139 206 129 1.60 20 DA200 69 35 31 19 83 42 31 19 80 DA101 604 302 604 302 723 362 723 362 60 DA201 185 93 153 93 224 112 153 95 20 DA201 185 93 153 93 224 112 153 95 20 DA200 59 29 23 15 73 37 23 15 DA101 510 255 510 255 641 321 661 321 50 DA201 157 79 119 74 198 99 119 74 10 DA201 157 79 119 74 198 99 119 74 10 DA201 157 79 119 74 198 99 119 74 10 DA200 51 25 18 11 66 33 18 11 DA101 434 217 434 217 575 288 575 288 DA201 135 67 94 59 177 88 94 59 10 DA200 137 186 371 186 371 186 371 186 521 261 521 261 261 DA201 116 58 76 47 159 80 76 47 10 DA200 116 58 76 47 159 80 76 47 10 DA200 116 58 76 47 159 80 76 47 10 DA200 116 58 76 47 159 80 76 47 10 DA200 116 58 76 47 159 80 76 47 10 DA200 116 58 76 47 159 80 76 47 10 DA200 116 58 76 47 159 80 76 47 10 DA200 116 58 76 47 159 80 76 47 10 DA200 116 58 76 47 159 80 76 47 10 DA200 123 61 87 55 182 91 87 55 2.40 11 DA200 123 61 87 55 182 91 87 55 2.40 11 DA200 123 61 87 55 182 91 87 55 2.40 11 DA200 123 61 87 55 182 91 87 55 2.40 11 DA200 38 19 11 7 53 27 11 7	549										1.40	
DA101 723 361 723 361 829 414 829 414 88 DA201 221 111 202 111 257 128 202 126 22 DA100 1.60 230 115 206 115 277 139 206 129 1.60 22 DA200 69 35 31 19 83 42 31 19 1.60 2 DA101 604 302 604 302 723 362 723 362 60 60 604 302 723 362 723 362 60 60 604 302 723 362 723 362 60 60 604 302 723 362 723 362 60 60 60 60 40 80 723 362 60 60 60 60 60 60 60 60 60 60	364	1.10									1.10	
DA201 221 111 202 111 257 128 202 126 2 DA100 1.60 230 115 206 115 277 139 206 129 1.60 2 DA200 69 35 31 19 83 42 31 19 160 2 DA101 604 302 604 302 723 362 723 362 6 6 DA201 185 93 153 93 224 112 153 95 2 DA100 1.80 194 97 162 97 245 123 162 101 1.80 2 DA200 59 29 23 15 73 37 23 15 2 2 2 2 1 1 1.80 2 2 2 1 1 1.80 2 1 2 1 1 3 </td <td>880</td> <td></td>	880											
DA100 1.60 230 115 206 115 277 139 206 129 1.60 22 DA200 69 35 31 19 83 42 31 19 3 DA101 604 302 604 302 723 362 723 362 6 DA201 185 93 153 93 224 112 153 95 2 DA100 1.80 194 97 162 97 245 123 162 101 1.80 2 DA200 59 29 23 15 73 37 23 15 4 DA201 510 255 510 255 641 321 641 321 5 DA201 157 79 119 74 198 99 119 74 1 DA200 51 25 18 11 66 33 </td <td>2914</td> <td></td>	2914											
DA200 69 35 31 19 83 42 31 19 8 DA101 604 302 604 302 723 362 723 362 60 DA201 185 93 153 93 224 112 153 95 22 DA100 1.80 194 97 162 97 245 123 162 101 1.80 2 DA200 59 29 23 15 73 37 23 15 4 DA101 510 255 510 255 641 321 641 321 5 DA201 157 79 119 74 198 99 119 74 1 DA100 2.00 165 83 130 81 220 110 130 81 2.00 1 DA200 51 25 18 11 66 33 <td>872</td> <td>1.60</td> <td></td> <td></td> <td>139</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.60</td> <td></td>	872	1.60			139						1.60	
DA201 185 93 153 93 224 112 153 95 2 DA100 1.80 194 97 162 97 245 123 162 101 1.80 2 DA200 59 29 23 15 73 37 23 15 2 DA101 510 255 510 255 641 321 641 321 5 DA201 157 79 119 74 198 99 119 74 1 DA100 2.00 165 83 130 81 220 110 130 81 2.00 1 DA200 51 25 18 11 66 33 18 11 a DA201 135 67 94 59 177 88 94 59 1 DA100 2.20 142 71 106 66 199	513		19	31	42	83	19			69		DA200
DA100 1.80 194 97 162 97 245 123 162 101 1.80 2 DA200 59 29 23 15 73 37 23 15 4 DA101 510 255 510 255 641 321 641 321 5 DA201 157 79 119 74 198 99 119 74 1 DA100 2.00 165 83 130 81 220 110 130 81 2.00 1 DA200 51 25 18 11 66 33 18 11 a DA201 434 217 434 217 575 288 575 288 az DA101 434 217 434 217 575 288 575 288 az DA201 135 67 94 59 177 8	889		362	723	362	723	302	604	302	604		DA101
DA200 59 29 23 15 73 37 23 15 4 DA101 510 255 510 255 641 321 641 321 5 DA201 157 79 119 74 198 99 119 74 1 DA100 2.00 165 83 130 81 220 110 130 81 2.00 1 DA200 51 25 18 11 66 33 18 11 a DA101 434 217 434 217 575 288 575 288 ad DA201 135 67 94 59 177 88 94 59 1 DA200 2.20 142 71 106 66 199 100 106 66 2.20 1 DA200 44 22 14 9 59 29	289		95	153	112	224	93			185		DA201
DA101 510 255 510 255 641 321 641 321 55 DA201 157 79 119 74 198 99 119 74 1 DA100 2.00 165 83 130 81 220 110 130 81 2.00 1 DA200 51 25 18 11 66 33 18 11 a DA101 434 217 434 217 575 288 575 288 a DA201 135 67 94 59 177 88 94 59 1 DA100 2.20 142 71 106 66 199 100 106 66 2.20 1 DA200 44 22 14 9 59 29 14 9 a DA201 116 58 76 47 159 80	345	1.80	101								1.80	DA100
DA201 157 79 119 74 198 99 119 74 1 DA100 2.00 165 83 130 81 220 110 130 81 2.00 1 DA200 51 25 18 11 66 33 18 11 a DA101 434 217 434 217 575 288 575 288 a DA201 135 67 94 59 177 88 94 59 1 DA100 2.20 142 71 106 66 199 100 106 66 2.20 1 DA200 44 22 14 9 59 29 14 9 a DA201 371 186 371 186 521 261 521 261 a DA201 116 58 76 47 159 80	408											
DA100 2.00 165 83 130 81 220 110 130 81 2.00 1 DA200 51 25 18 11 66 33 18 11 a DA101 434 217 434 217 575 288 575 288 ad DA201 135 67 94 59 177 88 94 59 1 DA100 2.20 142 71 106 66 199 100 106 66 2.20 1 DA200 44 22 14 9 59 29 14 9 a DA201 371 186 371 186 521 261 521 261 a DA201 116 58 76 47 159 80 76 47 1 DA100 2.40 123 61 87 55 182	792											
DA200 51 25 18 11 66 33 18 11 a DA101 434 217 434 217 575 288 575 288 a4 DA201 135 67 94 59 177 88 94 59 1 DA100 2.20 142 71 106 66 199 100 106 66 2.20 1 DA200 44 22 14 9 59 29 14 9 a DA101 371 186 371 186 521 261 521 261 a DA201 116 58 76 47 159 80 76 47 1 DA100 2.40 123 61 87 55 182 91 87 55 2.40 1 DA200 38 19 11 7 53 27 <td< td=""><td>838</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	838											
DA101 434 217 434 217 575 288 575 288 az DA201 135 67 94 59 177 88 94 59 1 DA100 2.20 142 71 106 66 199 100 106 66 2.20 1 DA200 44 22 14 9 59 29 14 9 az DA101 371 186 371 186 521 261 521 261 az DA201 116 58 76 47 159 80 76 47 1 DA100 2.40 123 61 87 55 182 91 87 55 2.40 1 DA200 38 19 11 7 53 27 11 7 az	938										2.00	
DA201 135 67 94 59 177 88 94 59 1 DA100 2.20 142 71 106 66 199 100 106 66 2.20 1 DA200 44 22 14 9 59 29 14 9 a DA101 371 186 371 186 521 261 521 261 a DA201 116 58 76 47 159 80 76 47 1 DA100 2.40 123 61 87 55 182 91 87 55 2.40 1 DA200 38 19 11 7 53 27 11 7 a	332											
DA100 2.20 142 71 106 66 199 100 106 66 2.20 1 DA200 44 22 14 9 59 29 14 9 a DA101 371 186 371 186 521 261 521 261 a DA201 116 58 76 47 159 80 76 47 1 DA100 2.40 123 61 87 55 182 91 87 55 2.40 1 DA200 38 19 11 7 53 27 11 7 a	4874											
DA200 44 22 14 9 59 29 14 9 a DA101 371 186 371 186 521 261 521 261 a DA201 116 58 76 47 159 80 76 47 1 DA100 2.40 123 61 87 55 182 91 87 55 2.40 1 DA200 38 19 11 7 53 27 11 7 a	506 625										2.20	
DA101 371 186 371 186 521 261 521 261 ad- DA201 116 58 76 47 159 80 76 47 1 DA100 2.40 123 61 87 55 182 91 87 55 2.40 1 DA200 38 19 11 7 53 27 11 7 a											2.20	
DA201 116 58 76 47 159 80 76 47 1 DA100 2.40 123 61 87 55 182 91 87 55 2.40 1 DA200 38 19 11 7 53 27 11 7 a	276 4131											
DA100 2.40 123 61 87 55 182 91 87 55 2.40 1 DA200 38 19 11 7 53 27 11 7 a	255											
DA200 38 19 11 7 53 27 11 7 a	381										2.40	
	233										2.40	
DA 101 319 160 319 160 476 238 460 238 3	534		238	460	238	476	160	319	160	319		DA101
	062											
	186										2.60	
	199											
	8051											
	910											
	030	2.80									2.80	
	172											
	658											
DA201 77 39 42 36 122 61 42 26 a	788			42	61	122	36	42	39			DA201
	902		33				33		41		3.00	
	150							4				
	335											
DA201 68 34 34 21 113 56 34 21 a	689	/	21	34	56	113	21	34	34	68		DA201

a Maximum axial load data is for pure axial load only.

b Load restriction due to slip.

Note: Values given in the safe maximum load column is having the deflection less than L/200. L is the distance between span. Data shown is for pre galvanized channels only. For hot dip galvanized channel load carrying capacity is reduced to 80% due to hot dipping Process.

All load shown are using M12 spring nut and hexagonal bolts for brackets.

Channel Nuts (Spring Nut)

Channel Nuts are used in Delta Strut channel to achieve a weld less construction of frame works.

Available in sizes :- M6, M8, M10 and M12

Long Channel Nut is for 41x41 Channels and Short Channel Nut is for 41x21.

Available in different finishes like Electro plated Zinc (EG) & Stainless steel 316 grade (A4), 304 grade (A2) & Hot dip galvanized (HG)

The safe working loads for zinc plated channels nuts.

Slip M12: 4.0 kN

M10: 3.0 kN

Pullout M12: 8.0 kN

M10: 6.0 kN

Torque Tightened to M12: 7kgf.m

M10: 5.5 kgf.m

Use M 12 Channel Nut for Maximum Capacity

Long Spring Nut

Short Spring Nut





DEL 101

DEL 103

How to order

Product Code Dia. of Thread

Finish

Eg. of Spring Nut

DEL101 - 06 - EG

Conduit Clamp

Catalogue No: CCL - Dia. of Conduit.

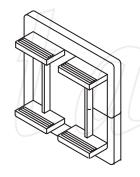
Channel Cover

Catalogue No : DA100-SF.

Channel End Cap

Delta offers both 41 x 41 and 41 x 21 End Caps. Standard Color is Black.

Catalogue No. DA100-EC (41 x 41mm)
DB200-EC (41 x 21mm)



Standard Fixing and Fastenings

Fastenings



Hexagon Head









Washer







Hexagon Nuts

Flat Washers Threaded Rods

Hexagonal Head Bolts

Electro Plated Zinc M6 x 16 M6 x 20 M6 x 25 M8 x 16 M8 x 20 M8 x 25 M8 x 30 M8 x 35 M8 x 40 M10 x 20 M10 x 25 M10 x 30 M10 x 35 M10 x 40 M10 x 50 M12 x 20 M12 x 30 M12 x 35 M12 x 40 M12 x 50 Hot Dip Galvanized	pack 100	Catalogue No. HB0616EG HB0620EG HB0625EG HB0816EG HB0820EG HB0835EG HB0835EG HB0835EG HB1020EG HB1020EG HB1025EG HB1035EG HB1035EG HB1040EG HB1040EG HB1050EG HB1225EG HB1230EG HB1235EG HB1235EG HB1235EG HB1235EG
M6 x 12 M6 x 16 M6 x 20 M6 x 35	pack 100 pack 100 pack 100 pack 100	HB0612HG HB0616HG HB0620HG HB0635HG
Stainless Steel (A4) M6 x 20 M6 x 25 M8 x 25 M8 x 35 M8 x 40 M10 x 16 M10 x 25 M10 x 40 M12 x 25 Stainless Steel (A2)	pack 100 pack 100 pack 100 pack 100 pack 100 pack 100 pack 100 pack 100 pack 100	HB0620A4 HB0625A4 HB0825A4 HB0835A4 HB0840A4 HB1016A4 HB1025A4 HB1040A4 HB1225A4
M6 x 20 M6 x 25 M8 x 25 M8 x 35 M8 x 40 M10 x 16 M10 x 25 M10 x 40 M12 x 25	pack 100 pack 100 pack 100 pack 100 pack 100 pack 100 pack 100 pack 100 pack 100	HB0620A2 HB0625A2 HB0825A2 HB0835A2 HB0840A2 HB1016A2 HB1025A2 HB1040A2 HB1225A2

Hexagonal Nuts

Electro Plated	Zinc	
M6	pack 500	HN06EG
M8	pack 500	HN08EG
M10	pack 200	HN10EG
M12	pack 200	HN12EG

• For threaded rods of 3 meter length add /3 after the code. e.g. M6x3 Meters - TR 06EG /3

Hot Dip Galvanized		Catalogue No.
M6	pack 500	HN06HG
Stainless Steel (A4)		
M6 M8 M10 M12	pack 100 pack 100 pack 100 pack 100	HN06A4 HN08A4 HN10A4 HN12A4
Stainless Steel (A2)		
M6 M8 M10 M12	pack 100 pack 100 pack 100 pack 100	HN06A2 HN08A2 HN10A2 HN12A2

Roofing Bolts

Electroplated Zinc		
M6 x 12 M6 x 16 M6 x 20 M6 x 25 M6 x 30 M6 x 40 M6 x 50	pack 200 pack 200 pack 200 pack 200 pack 100 pack 100 pack 100	RB0612EG RB0616EG RB0620EG RB0625EG RB0630EG RB0640EG RB0650EG
Hot Dip Galvanized	p-0-0-1	
M6 x 12 M6 x 16	pack 100 pack 100	RB0612HG RB0616HG
Stainless Steel (A4)		
M6 x 12 M6 x 16 M6 x 20	pack 100 pack 100 pack 100	RB0612A4 RB0616A4 RB0620A4
Stainless Steel (A2)		
M6 x 12 M6 x 16 M6 x 20	pack 100 pack 100 pack 100	RB0612A2 RB0616A2 RB0620A2
Flat Washers		

Electro Plated Zinc M6 M8 M10 M12	pack 500 pack 500 pack 500 pack 200	FW06EG FW08EG FW10EG FW12EG
Stainless Steel (A2) M6 M8 M10 M12	pack 100 pack 100 pack 100 pack 100	FW06A2 FW08A2 FW10A2 FW12A2

Spring Washers

Electro Plated Zinc		
M6	pack 400	SW06EG
M8	pack 400	SW08EG
M10	pack 400	SW10EG
M12	pack 400	SW12EG

Threaded Rods in 2 meters as standard

Electro Plated Zinc	
M6 x 2m	TR06EG
M8 x 2m M10 x 2m	TR08EG TR10EG
M12 x 2m	TR12EG
Stainless Steel (A4)	
M6 x 2m M8 x 2m	TRO6A4
M10 x 2m	TR08A4 TR10A4
M12 x 2 m	TR12A4
Stainless Steel (A2)	
M6 x 2m M8 x 2m	TR06A2 TR08A2
M10 x 2m	TR10A2
M12 x 2m	TR12A2

-61-

Various type of Anchor Bolts are available in Electro plated zinc (EG) and Stainless Steel finish (A4 & A2)

Ceiling Anchor (Drop in Anchor)

Suitable for Ceiling Application. The Expansion of anchor is done through the hammering of the anchor in the drilled hole.



Shown is the assembly ceiling anchor

	Size	Anchor Length	Catalogue No.
	M6	25	CLAB - 06 - 25 - EG
\	M8	30	CLAB - 08 - 30 - EG
	M10	40	CLAB - 10 - 40 - EG
	_M12	50	CLAB - 12 - 50 - EG
	M16	65	CLAB - 16 - 65 - EG
	M20	80	CLAB - 20 - 80 - EG

Add A4 at the end of the Catalogue No. for Stainless Steel finish.

Sleeve Anchor (Rawl Bolt)

Sleeve Anchor with internal thread is suitable for using with hexagonal bolt. When bolt is tightened the cone is pulled into expansion Sleeve and expand it against the hole wall.



Shown is the assembly Sleeve Anchor fixed with Hexagonal bolt

Size	Anchor Length	Catalogue No.
M6	50	SLAB - 06 - 50 - EG
M8	60	SLAB - 08 - 60 - EG
M10	70	SLAB - 10 - 70 - EG
M12	90	SLAB - 12 - 90 - EG

Add A4 at the end of the Catalogue No. for Stainless Steel finish.

Stud Anchor (Through Bolt)

Stud Anchor with external thread expands when the hexagonal nut is tightened.



Shown is the assembly Stud Anchor fixed with Hexagonal nut

Size	Anchor Length	Catalogue No.
M8	80	STAB - 08 - 80 - EG
M8	100	STAB - 08 - 100 - EG
M10	80	STAB - 10 - 80 - EG
M10	100	STAB - 10 - 100 - EG
M10	120	STAB - 10 - 120 - EG
M12	80	STAB - 12 - 80 - EG
M12	100	STAB - 12 - 100 - EG
M12	150	STAB - 12 - 150 - EG

Add A4 at the end of the Catalogue No. for Stainless Steel finish.

Delta Strut Brackets are made to BS 6946: 1988

Channel Nuts and Fastenings are to be ordered separately.

Unless otherwise stated, all the M.S brackets are made from 6mm thick.

Contact Sales Desk for Stainless Steel Material Thickness

Hole size is 14 mm to allow 12 mm Hexagonal bolt.

Various other brackets can be manufactured to customer request. Refer Page No: 71

Material Properties

Minimum Yield Stress: 170 N/mm2

Maximum Loads

For Maximum capacity use Channel Nuts of M12 size. In most cases the mode of failure will be slippage of the bracket along the channel. However there are few channel / bracket combinations where the maximum load is dependent upon the strength of the bracket itself.

Commercial tolerance on dimensions apply.

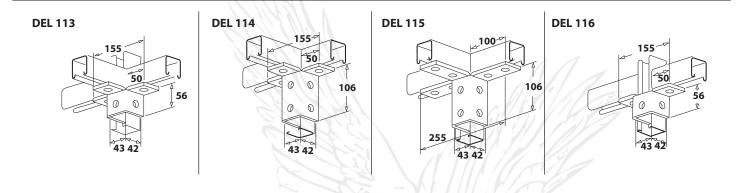
Materials and Finishes Available

- Hot dip Galvanized after fabrication (HDGAF) as per BS EN 1461
- Stainless Steel finish to AISI 304 and AISI 316L
- Epoxy Polyester Coated to any RAL Color.

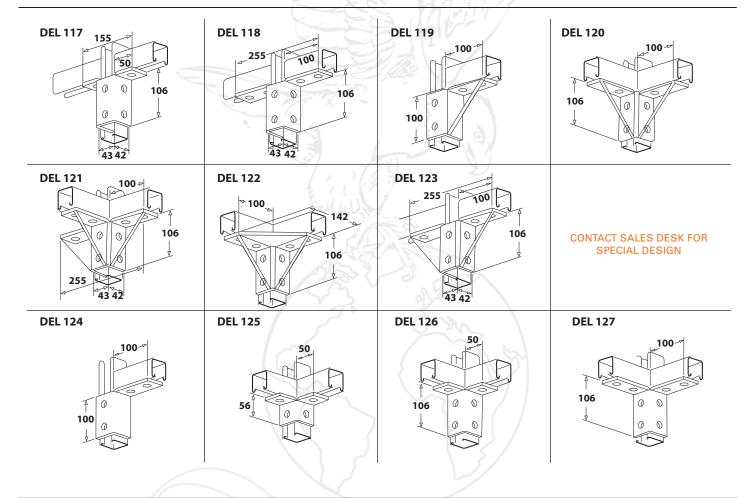
How to order



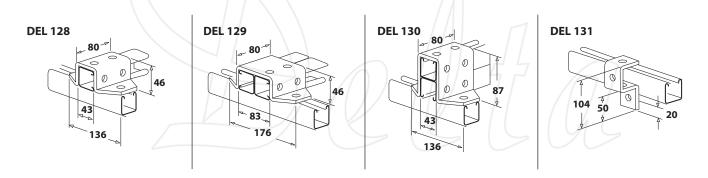
Wing Shape Fittings (For 41 mm Width Series Channel)



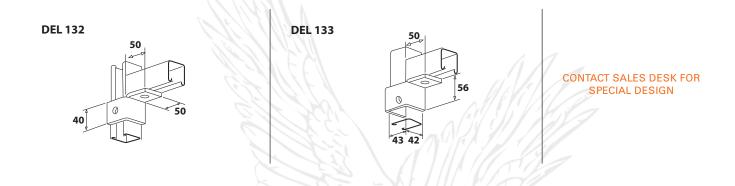
Wing Shape Fittings (For 41 mm Width Series Channel)



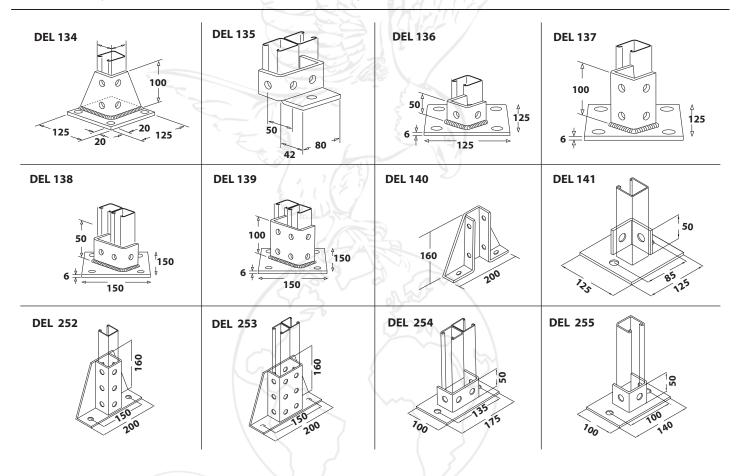
"U" And Wing Shape Fittings (For 41 mm Width Series Channel)



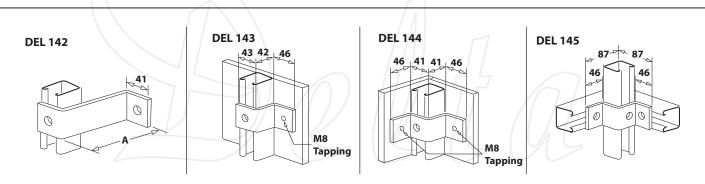
"U" And Wing Shape Fittings (For 41 mm Width Series Channel)



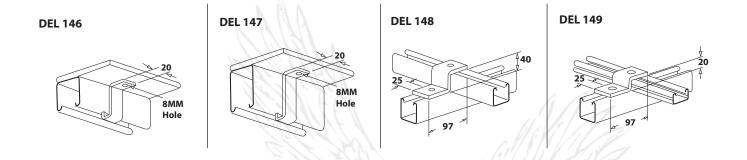
Post Bases (For 41 mm Width Series Channel)



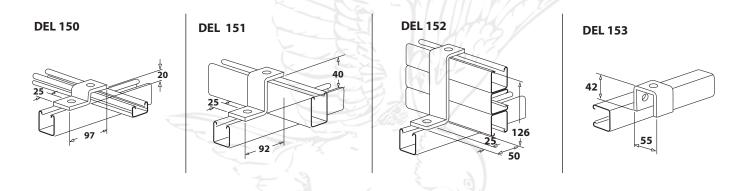
"Z" Shape Fittings (For 41 mm Width Series Channel)



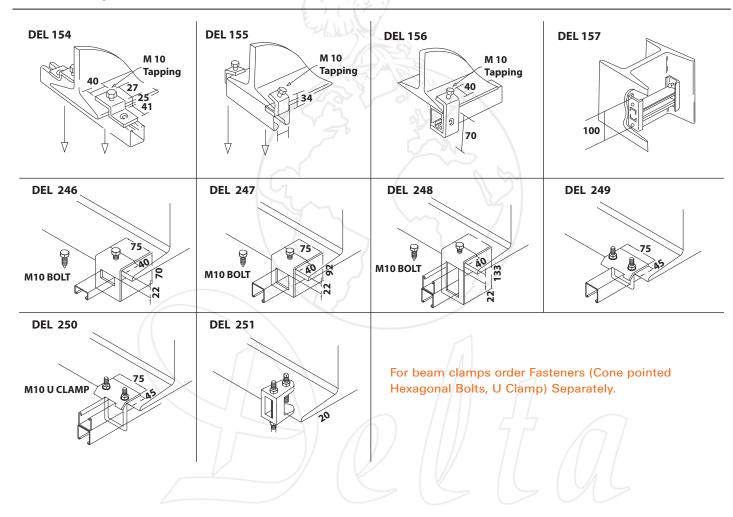
A



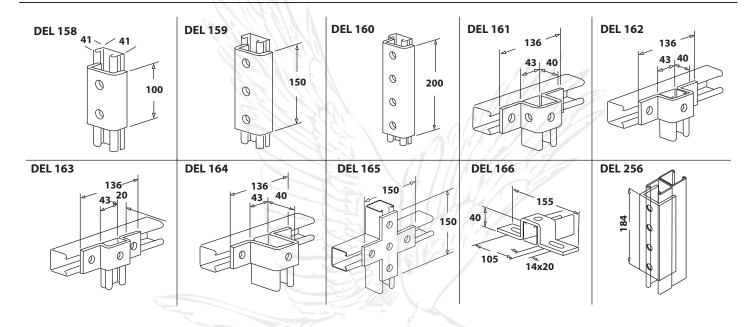
"Z" & "U" And Wing Shape Fittings (For 41 mm Width Series Channel)



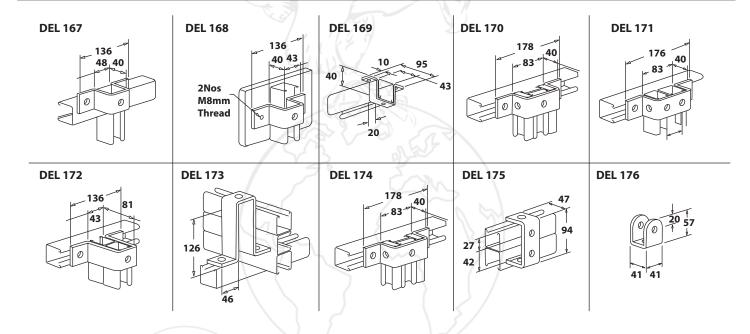
Beam Clamps



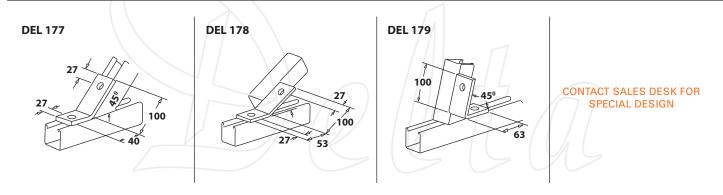
"U" Shape Fittings (For 41 mm Width Series Channel)



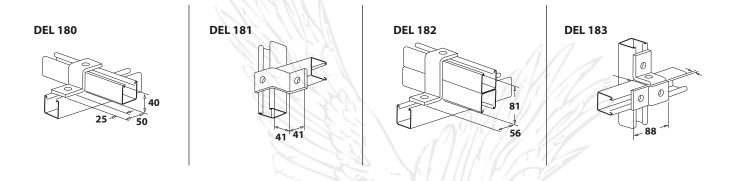
"U" Shape Fittings (For 41 mm Width Series Channel)



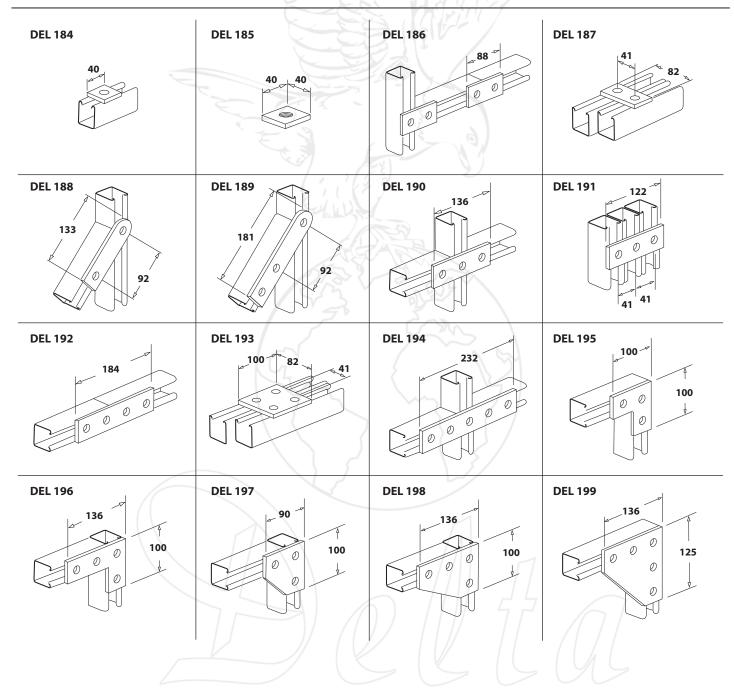
Angular Fittings (For 41 mm Width Series Channel)

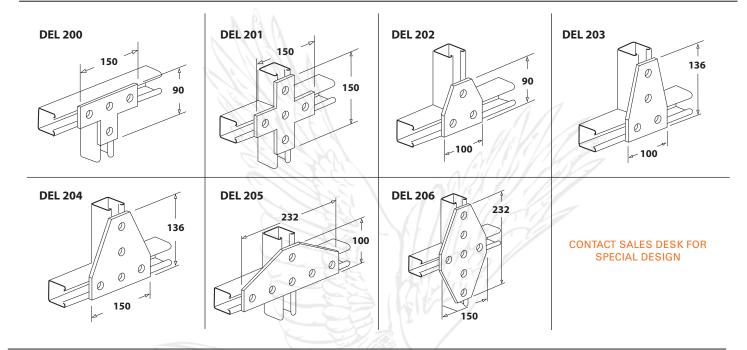


"Z" Shape Fittings (For 41 mm Width Series Channel)

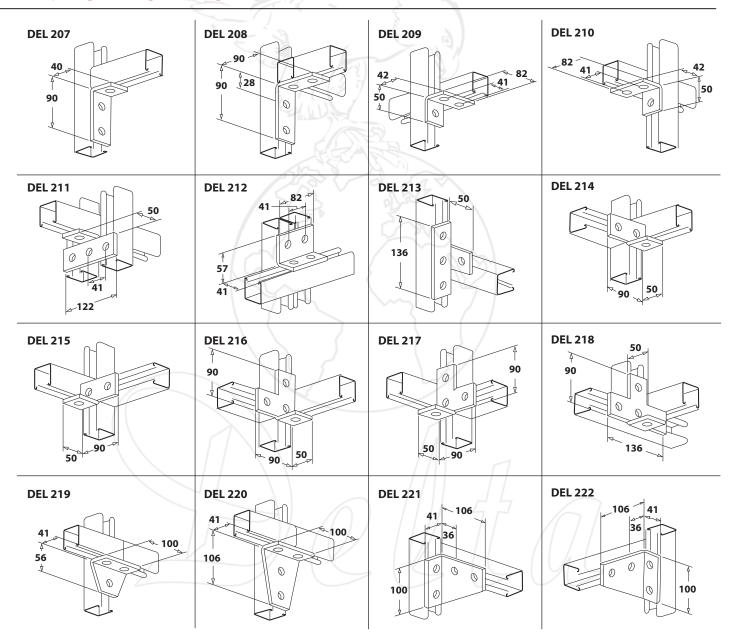


Flat Shape Fittings

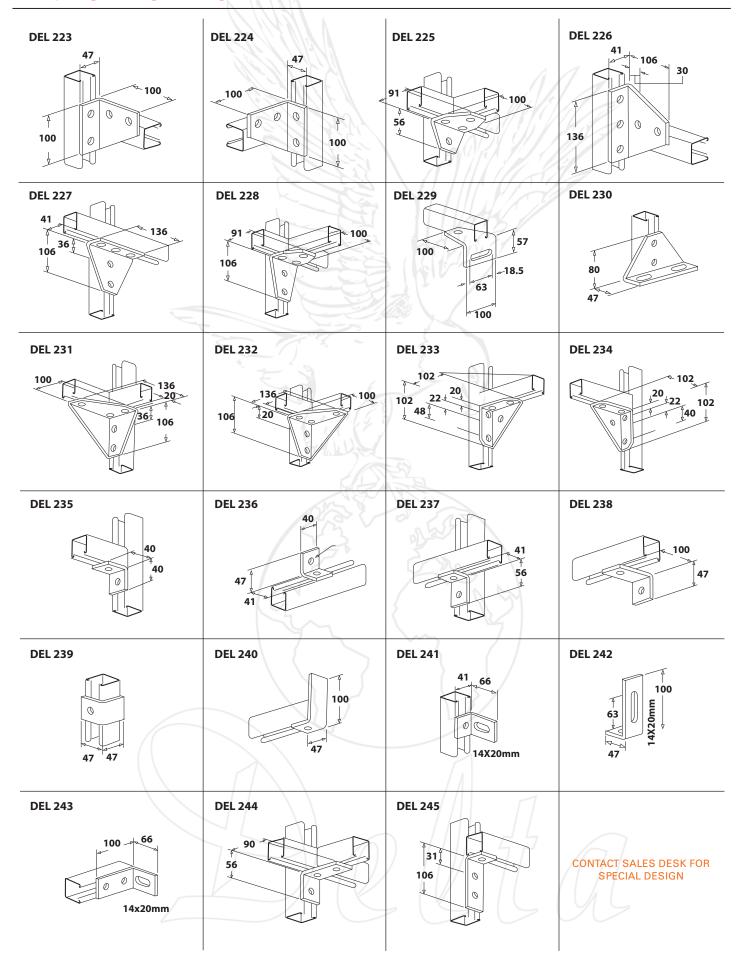




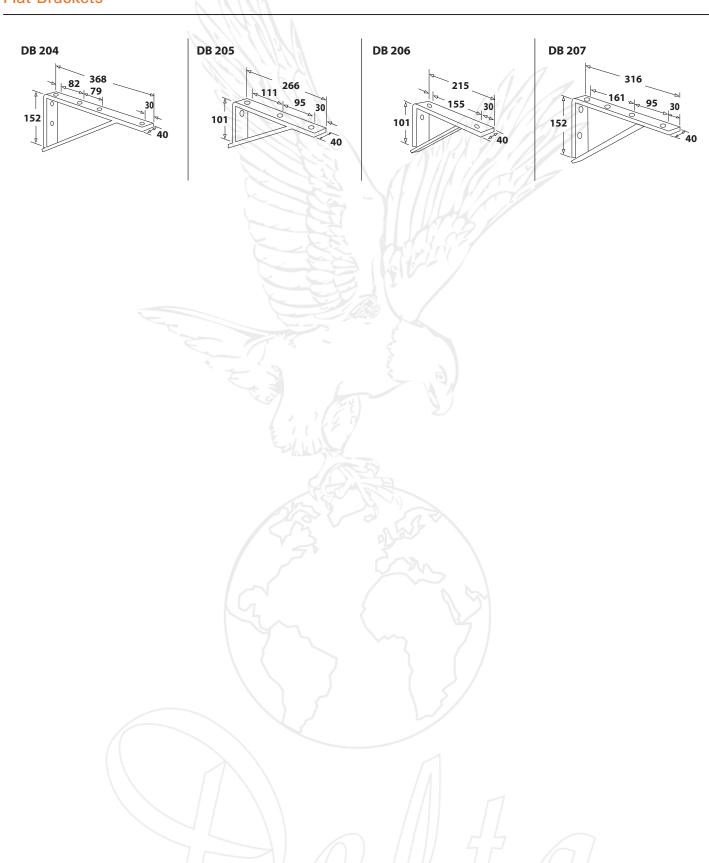
Ninety Degree Angle Fittings (For 41 mm Width Series Channel)



Ninety Degree Angle Fittings (For 41 mm Width Series Channel)



Flat Brackets



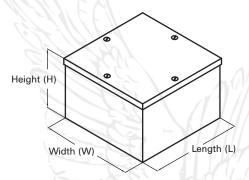
(

Delta Pull Boxes

Screw Cover Pull Box (Adaptable Boxes)

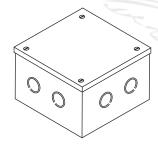
Available in Pre-Galvanized, Hot dip Galvanized and Stainless Steel Finish.

Standard knockout dimensions are 20, 25mm. For Weather proof boxes rubber gaskets are available.

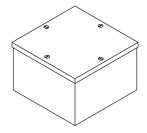


SCP - A

SCP - B

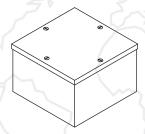


Size	Thickness	No. Of Screws for Top Lid
100x100x50	1.0	2
100×100×100	1.0	2
150x100x50	1.0	4
150×150×150	1.0	4
150x150x150	1.0	4



Screw cover, without knockouts.

SCP - C



Screw cover, Weather - Proof, No Knockouts. Entirely seam welded with gasket

Minimum Thickness is 1.5mm

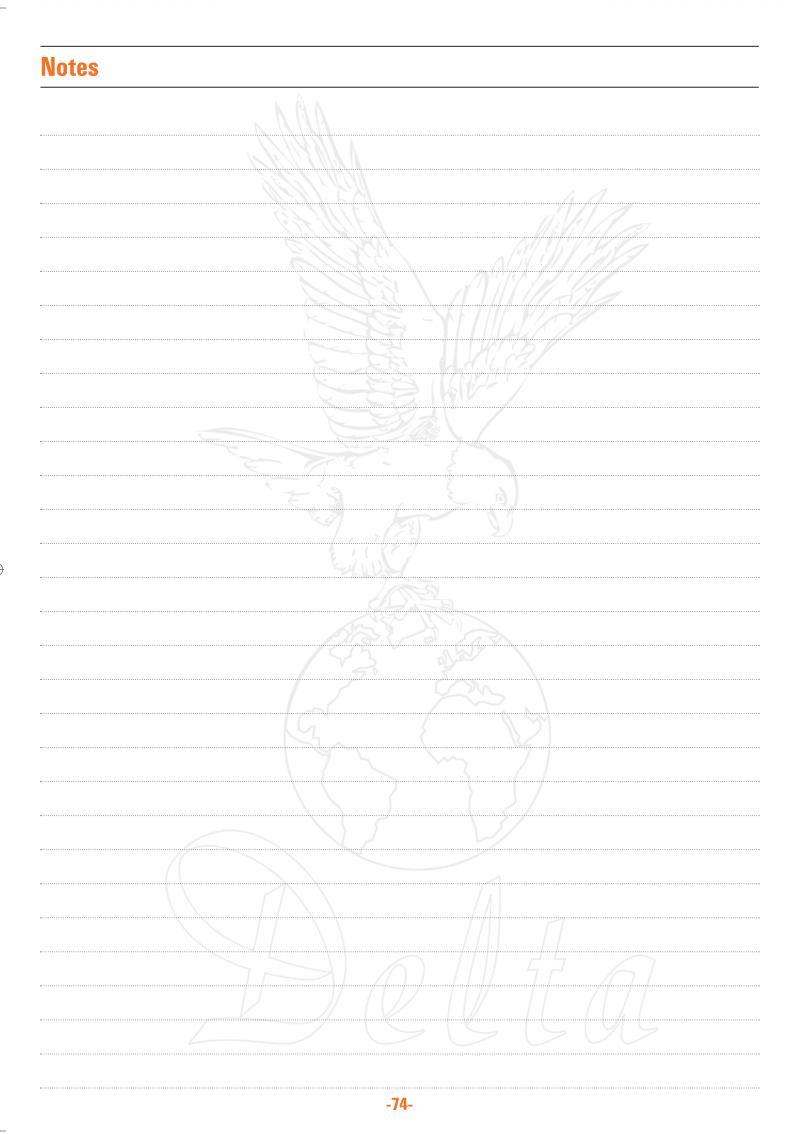
We make various enclosures and socket box according to customer requirement.

Other than this We do light engineering products such as custom made brackets, Clamps and light structural frames.

Manufacturer reserves the right to change the design without any notification.

(

△























P.O. Box: 80533, Doha, Qatar

Tel: +974 44812702, Fax: +974 44812708

E-mail: transpower@tpqtr.com