

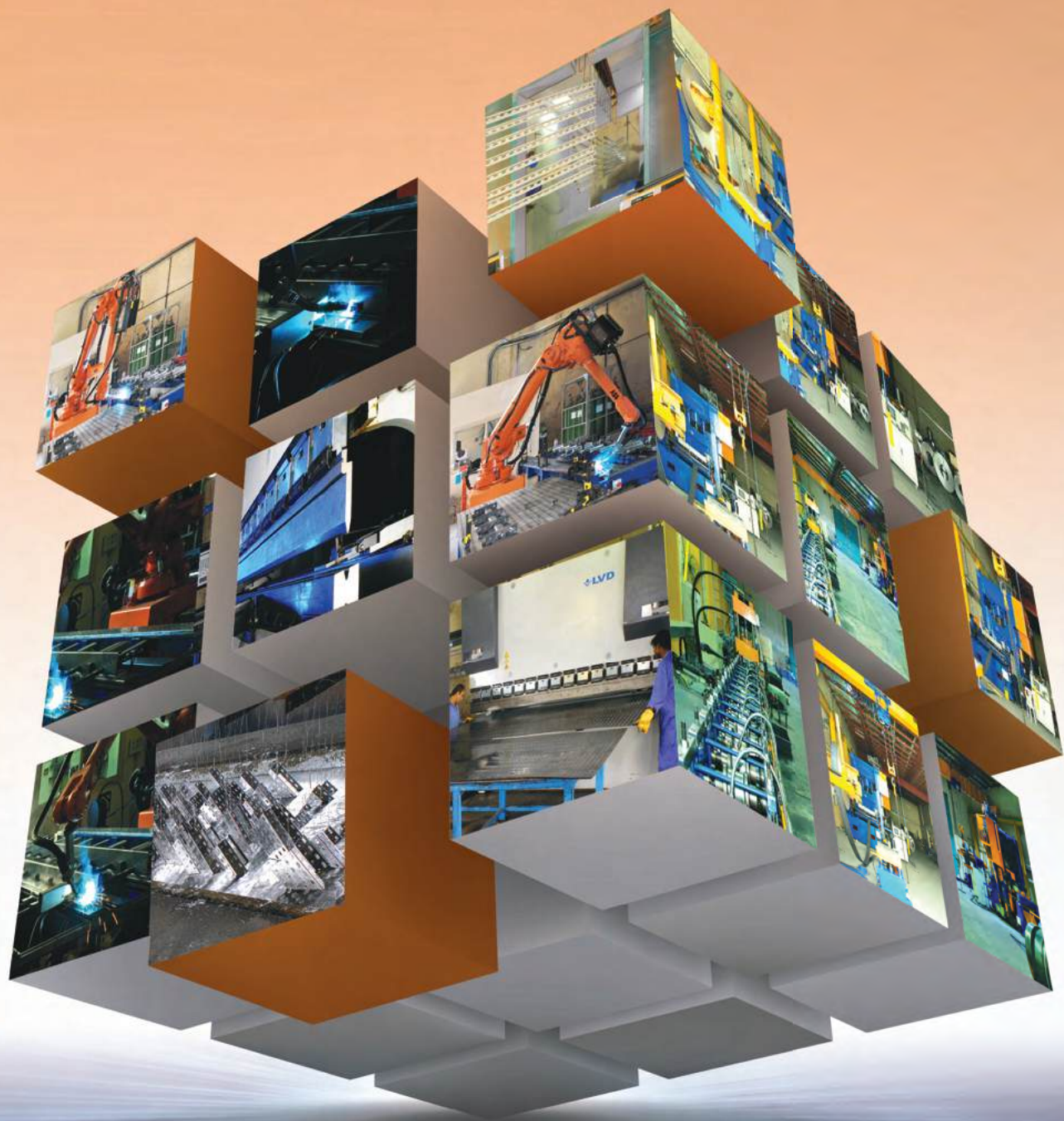
# TransDelta Int'l Industries L.L.C.

(A Member of TGI Goup, Europe)

SGS



# Glimpses of Technology...



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## Letter from M D

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Firstly I would like to express my sincere gratitude to those who have been with us for the past 22 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 U.A.E markets and it did yield successful results.

We are proud to say that we are the first manufacturer of cable support system in U.A.E commercially and our products are installed in various prestigious projects in and out of U.A.E for the past 22 years.

Being an ISO 9001 company 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

Chris T Ruddle  
Managing Director





# CERTIFICATE

The Certification Body  
of TÜV SÜD Middle East L.L.C.  
certifies that



**TRANSDelta INTERNATIONAL INDUSTRIES L.L.C**  
P.O.Box:23295, Industrial Area  
Sharjah, United Arab Emirates

has established and applies  
a Quality Management System for

**Manufacturers of Metallic Cable Management System  
(Cable Trunkings, Cable Trays, Cable Ladders,  
Strut Items and all types of Cable Supports)**

An audit was performed, Report No. 50007  
Proof has been furnished that the requirements  
according to

**ISO 9001:2015**

are fulfilled.

The certificate is valid from **2017-02-07** until **2020-02-06**  
Certificate Registration No. **ME 9K 0090-01 DAC**

*[Signature]*  
Date: 2017-02-07



TUV

TÜV SÜD Middle East L.L.C., P.O. Box 23295, Jumeirah Heights Tower 4, Business Bay, Dubai, United Arab Emirates

## CERTIFICATE OF COMPLIANCE

Certificate Number: 20130731-E357751  
Report Reference: E357751-20130731  
Issue Date: 2013-JULY-31

Issued to: **TRANSDelta INTERNATIONAL INDUSTRIES L.L.C**  
PO 23293  
SHARJAH UNITED ARAB EMIRATES

This is to certify that  
representative samples of **CABLE TRAYS**  
Standard perforated Tray Type 50x50, 50x75, 50x100,  
50x150, 50x200, 50x300, 50x450, 50x600, 50x750, 50x900

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

Standard(s) for Safety: **Cable Tray Systems, NEMA VE 1-2009**  
Additional information: **See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information**

Only those products bearing the UL Classification Mark should be considered as being covered by  
UL's Classification and Follow-Up Service.

The UL Classification Mark includes: UL in a circle, with the word "CLASSIFIED" (as shown); a control  
number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of  
the product; and the product category name (product identity) as indicated in the appropriate UL  
Directory.

Look for the UL Classification Mark on the product.

*[Signature]*  
Walter R. Gray  
UL

UL  
No information and documentation regarding UL Mark services are provided on behalf of UL (UL) or any subsidiary thereof of UL. For additional please  
contact your UL Customer Service Representative at [usa@ul.com](mailto:usa@ul.com)



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### Test Certificate

TransDelta International  
P.O. Box 23295  
Sharjah  
UAE

Report Number: A31481  
Page: 1 of 2  
Order Number: PCM 0300  
Date Tested: 26/09/13  
Date Reported: 30/09/13

Issue: 1

Attn: Mr. Matthew Philip

Item: 150 X 100 x 2 mm x 600 mm long cable ladder Epoxy coated  
HDGAF Finish  
Catalogue no: 10CU488150-4-35-3-E  
Project name: Abu Dhabi International Airport-ARTS project  
Project location: Abu Dhabi  
Consultant: AECOM  
Client: ADAC  
Main contractor: TCA JV  
Electrical sub-contractor: ANEL Emirates general contracting L.L.C

Specifications: Client Requirement

ISO 9001 Testing - ISO 9227:2009

901: Exposure	902: Exposure	903: Comments
	90 hours	See below

Certificate Comments

#### Test Details

Test Solution: 5% NaCl  
Reservoir pH: 7.00  
Test Temperature: 35 +/- 2 Deg C  
Collection Vessel pH: 6.70 - 7.00  
Rate of collection (surface area 80 cm<sup>2</sup>): 1 to 2 ml/hour  
Density of collection: 1.037 g/ml  
Visual observation before Exposure: The surface of the epoxy coated  
cable ladder, as received, as shown in photograph, the surface is free  
from any visible indication of damage (See attached Photograph)  
Visual observation after Exposure: No change in original appearance  
was noted after exposure. No indication of any deterioration like  
blistering, flaking, cracking or discoloration observed  
(See attached Photograph)  
Note: Neutral Salt Spray Test (NSS) was carried out as per  
ISO EN 12927:2006 (Inferred in ISO 9001:2007)



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STANDARDS ORGANISATION OF NIGERIA  
SONCAP Programme

WJ24K3



### Standards Organisation of Nigeria Conformity Assessment Programme Product Certificate (Licensed)

This document is not valid and does not substitute in any respect  
the SONCAP Certificate required for Customs Clearance

PG(L) No.: L140600134  
Issuance Date: 23.07.2014  
Expiry Date of Certificate: 23.07.2015  
Page: 1/2 Version: 2

Manufacturer's Name: TRANSDelta INTERNATIONAL INDUSTRIES L.L.C  
Address: P.O. BOX NO. 23293  
Sharjah - United Arab Emirates  
Phone No.: 97198342094  
E-mail: [info@transdelta.com](mailto:info@transdelta.com)  
Fax No.: 97198348072

Item No.	HS Code	Product Description	Country of Origin	Standard Reference
1	731441	DELTA CABLE TRAYS & FITTINGS, DELTA	United Arab Emirates	BS EN 61327:2002
2	731441	DELTA CABLE LADDERS & FITTINGS, DELTA	United Arab Emirates	BS EN 61327:2002
3	731441	DELTA TRUNKINGS & FITTINGS, DELTA	United Arab Emirates	ISO 1481:2006
4	731441	DELTA ST. CONDUITS & ACCESSORIES, DELTA	United Arab Emirates	MANUFACTURER SPECIFICATIONS
5	731441	DELTA WIRE BASKETS & ACCESSORIES, DELTA	United Arab Emirates	MANUFACTURER SPECIFICATIONS
6	731441	DELTA FLEXIBLE CONDUITS WITH GLAND & ACCESSORIES, DELTA	United Arab Emirates	MANUFACTURER SPECIFICATIONS
7	731441	DELTA PULL BOXES & ACCESSORIES, DELTA	United Arab Emirates	MANUFACTURER SPECIFICATIONS

Remarks: PRODUCTS WERE SUPPORTED BY ISO 9001:2008 CERTIFICATE, NON SGS TEST REPORTS AND FACTORY AUDIT REPORT



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## In-house Galvanizing Plant



## In-house Powder Coating Plant



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# Cable Management

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# Delta

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## Our Product Range

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

## Basic Concept

Construction Environment in today's modern world demands the use of complex technologies for effective use of resources. Hence Cable Management systems have become an integral part of industrial, commercial and utility construction. Cable Management system is a quick economical and user friendly solution to most of the problems faced during cabling in all sort of constructions. This has greatly improved the aesthetic appearances of cable routing inside Modern buildings, Power Plants and Industrial Projects.

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 : 2015, 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 develop a system which has taken into account all the requirements of construction sites in the Middle East.

# Raw Material

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## **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 Molybdenum 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  $Al_2O_3$  (alumina) to protect from rust. Due to its good corrosion resistance, it can be used in chemical environment. And light weightness 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  $35\mu$ - $55\mu$  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)**

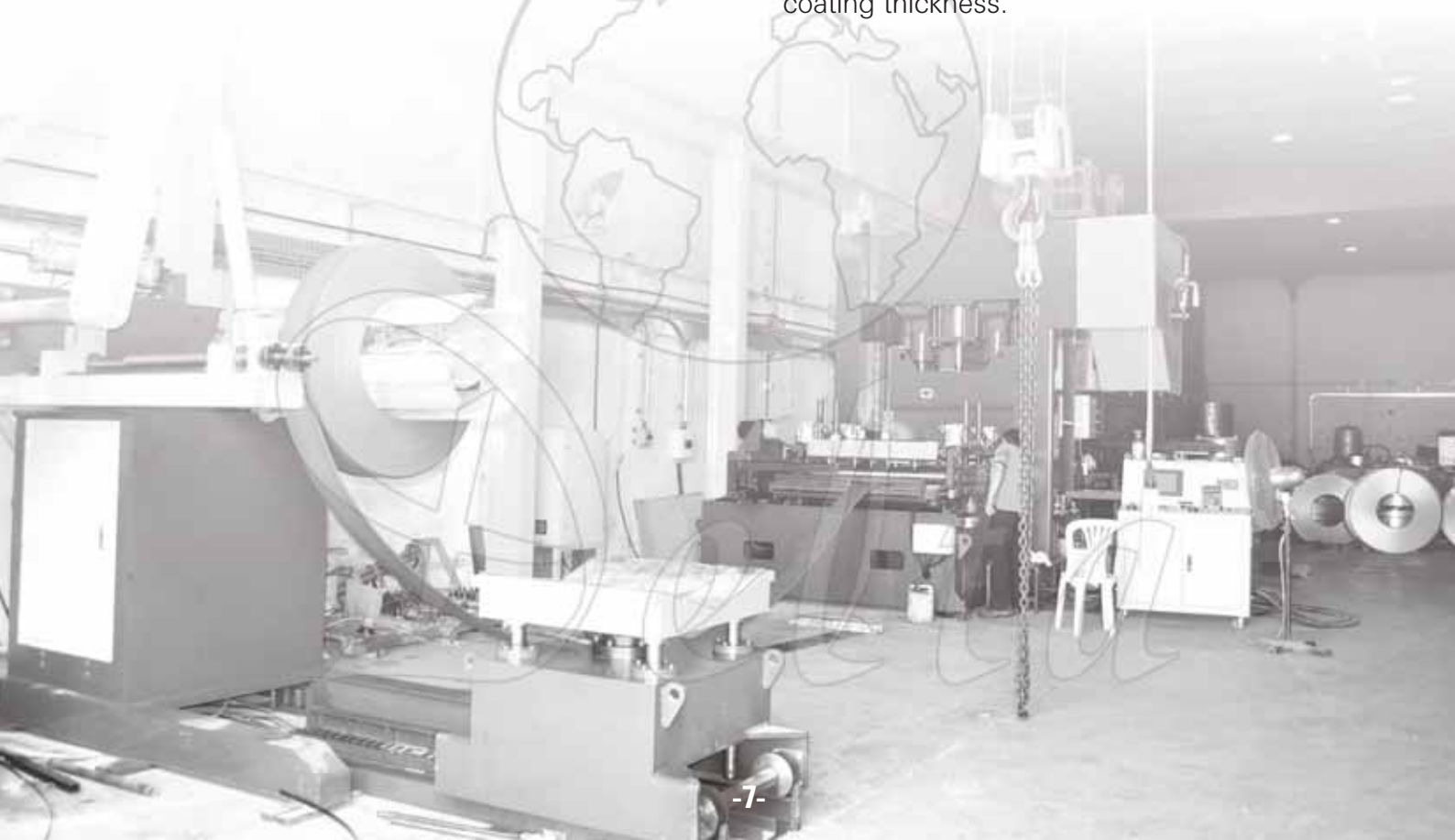
## PRE GALVANIZED FINISH OR CONTINUOUSLY HOT DIP GALVANIZED SHEET FINISH (HDGBF)

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.



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## Delta Polyester Coating System (EPAG)

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### 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. semi-matt 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.



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## **Delta Cable Tray**

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*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

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

## 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

50x50	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)

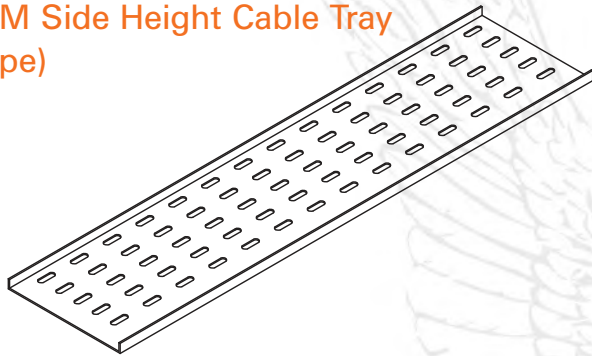
Non Perforated tray also available on request



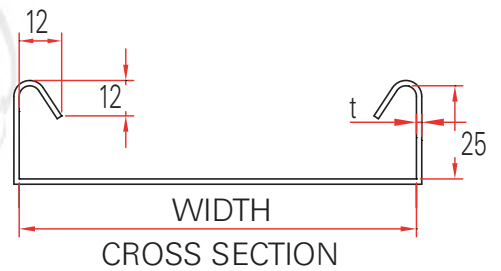
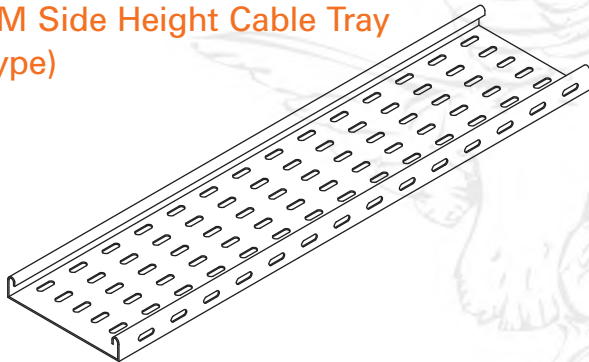
# Standard Perforated Delta Cable Tray

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

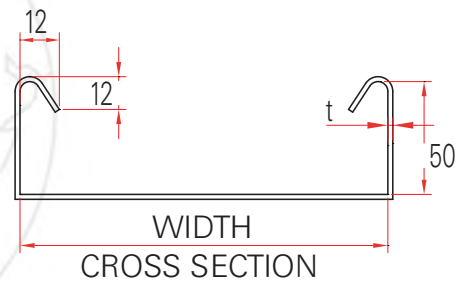
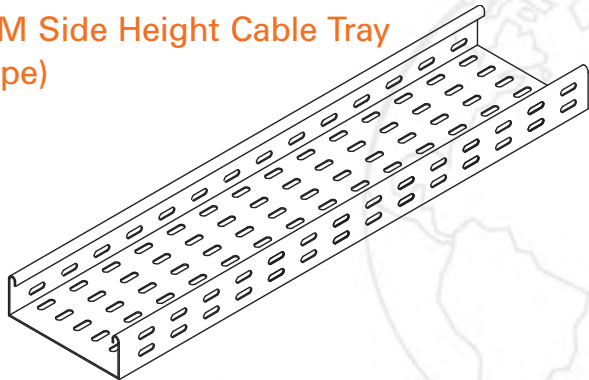
## 12MM Side Height Cable Tray (P-Type)



## 25MM Side Height Cable Tray (M-Type)

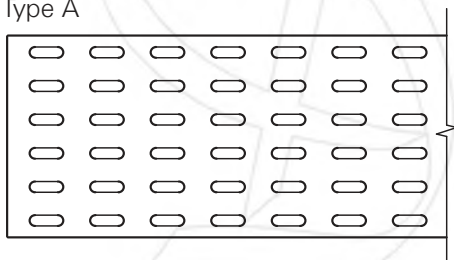


## 50MM Side Height Cable Tray (R-Type)

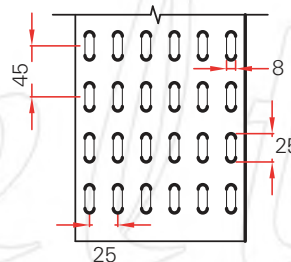


## Slotting Pattern

Type A



## Perforation Details



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 mm	Possible Thickness in mm			
	1.0	1.2	1.5	2.0
50	✓	✓	✓	✓
100	✓	✓	✓	✓
150	✓	✓	✓	✓
200	✓	✓	✓	✓
300	X	✓	✓	✓
450	X	X	✓	✓
600	X	X	✓	✓

### 25MM Side Height Cable Tray (M-Type)

Width in mm	Possible Thickness			
	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	Possible Thickness			
	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.

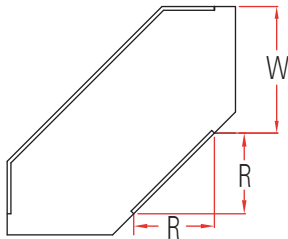
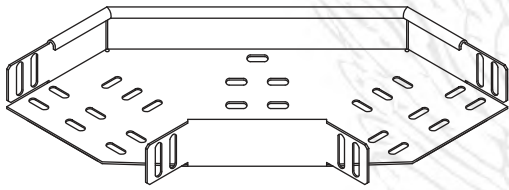
All cut edges of cable tray at site should be protected by applying Zinc rich paint to avoid further corrosion.

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.

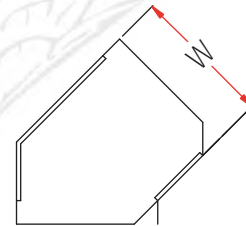
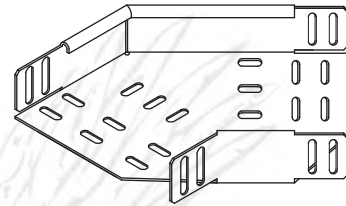
## 90° Bend



WIDTH w	Radius R
50mm to 200mm	150
300mm to 600mm	250

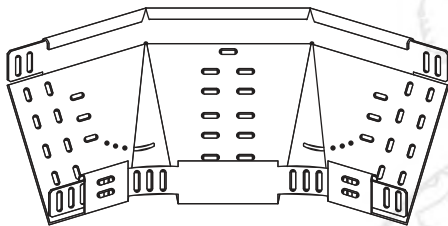
Bends are available in 30 and 60 degrees also

## 45° Bend



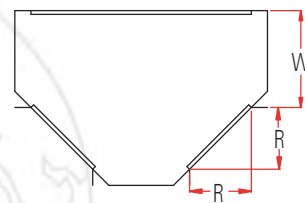
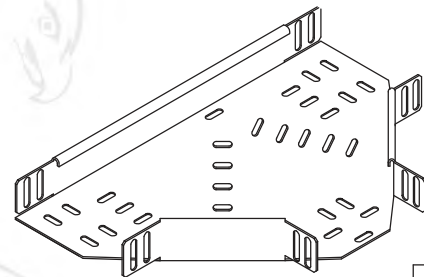
Two 45° bends can be used to achieve offsets in horizontal direction.

## Adjustable Horizontal Bend



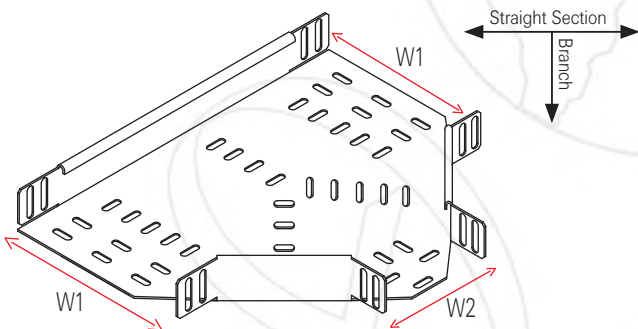
Adjustable Horizontal Bends are available only up to and including 300mm width

## Horizontal Equal Tee



WIDTH w	Radius R
50mm to 200mm	150
300mm to 600mm	250

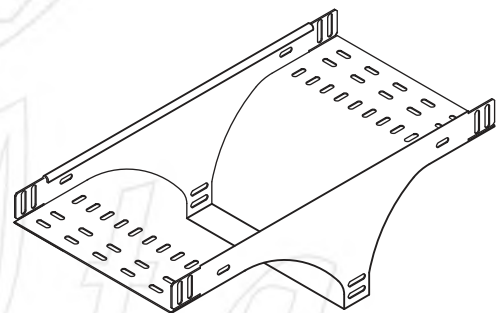
## Horizontal Unequal Tee



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.

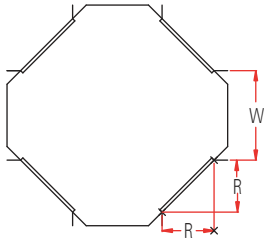
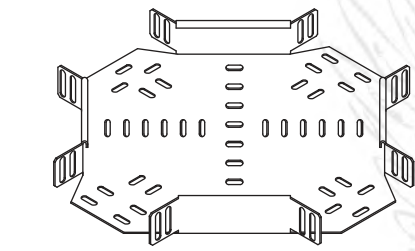
## Vertical Tee



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.

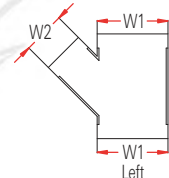
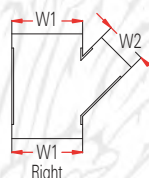
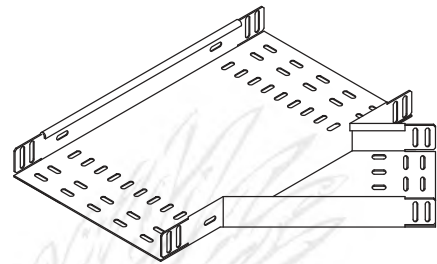
# Delta Cable Tray Fittings

## Horizontal Cross



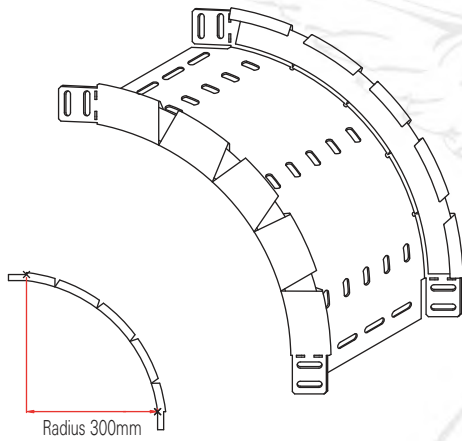
WIDTH w	Radius R
50mm to 200mm	150
300mm to 450mm	250

## Y Branch Left and Right



Cable is deviated to 45° from the main line

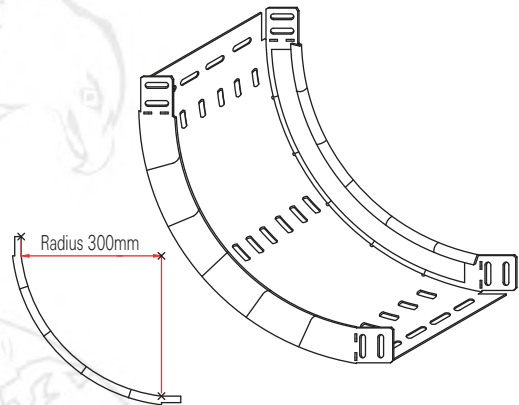
## 90° Riser Outside



Radius 300mm

Risers are also available in 30, 45 and 60 degree

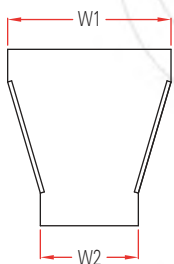
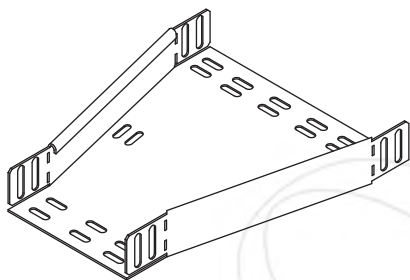
## 90° Riser Inside



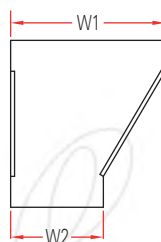
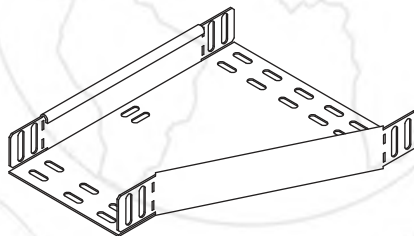
Radius 300mm

Inside and Outside Riser combination can be used to achieve vertical offsets.

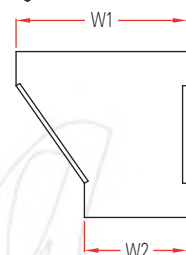
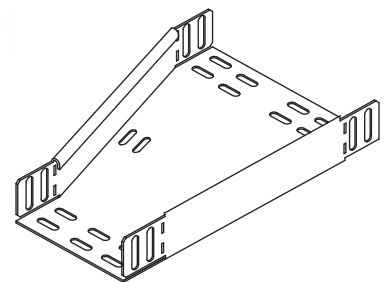
## Straight Reducer



## 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	<b>1</b>	Mild Steel	<b>P</b>	12MM Side Height	<b>P</b>
Aluminium	<b>2</b>	HDGBF	<b>G</b>	25MM Side Height	<b>M</b>
S/Steel 316L	<b>3</b>	HDGAF	<b>G</b>	50MM Side Height	<b>R</b>
S/Steel 304	<b>4</b>	Stainless Steel	<b>M</b>		
Corten A Steel	<b>5</b>	Aluminium	<b>M</b>		
		Normal Finish	<b>M</b>		
Pattern		Thickness		2 Elements	
Slots Along the Length (Standard)	<b>A</b>	1.00 mm	<b>1</b>	Straight Section	<b>SS</b>
		1.20 mm	<b>2</b>	90° Bend	<b>9H</b>
		1.50 mm	<b>3</b>	90° Riser Inside	<b>9RI</b>
		2.00 mm	<b>4</b>	90° Riser Outside	<b>9RO</b>
				Adj. Horizontal Bend	<b>AH</b>
				Horizontal Tee	<b>HT</b>
				Horztl' Unequal Tee	<b>HUT</b>
				Vertical Tee	<b>VT</b>
				Horizontal Cross	<b>HC</b>
				Straight Reducer	<b>RS</b>
				Y Branch Right	<b>RY</b>
				Y Branch Left	<b>LY</b>
Width		Side Height		Length	
Width Varies from 50 mm to 900 mm	<b>50</b> - - - <b>900</b>	12 mm	<b>12</b>	2000	<b>2</b>
		25 mm	<b>25</b>	2440	<b>2.44</b>
		50 mm	<b>50</b>	3000	<b>3</b>
		75 mm	<b>75</b>		
		100 mm	<b>100</b>		
		125 mm	<b>125</b>		
		150 mm	<b>150</b>		
Please Refer to Page No: 12					
Type of curvature		Epoxy finish if required			
Gusset	<b>G</b>	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°

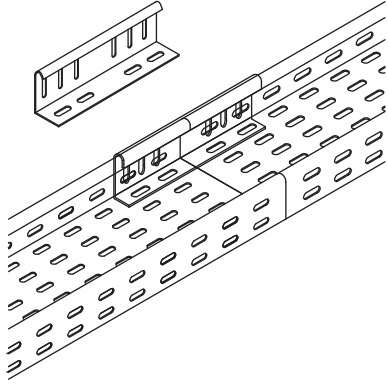
3. For left reducer - LR. Right reducer - RR

4. See Page No : 13 for Gusset type construction

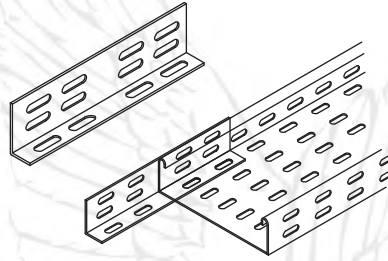
# Cable Tray Accessories

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.

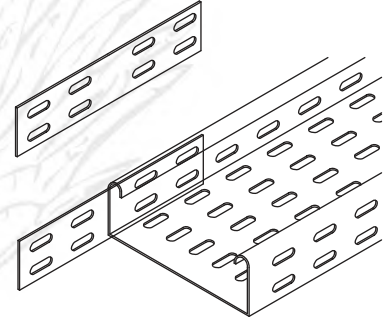
## Wrap over Coupler



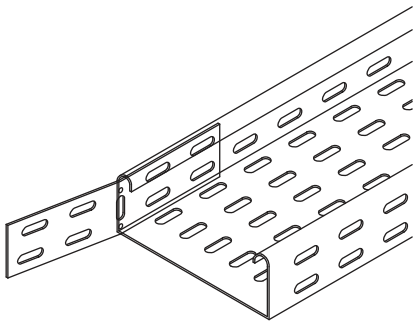
## Bend Coupler



## Plate Coupler

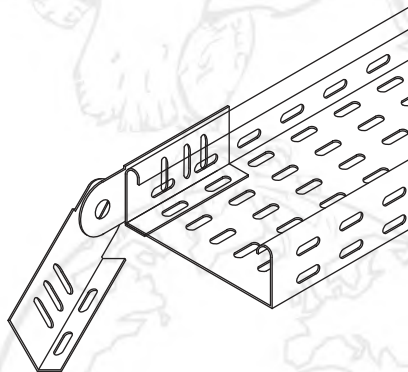


## Adjustable Horizontal Coupler



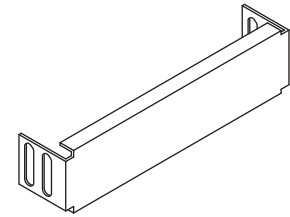
For horizontal change of direction

## Adjustable Vertical Coupler



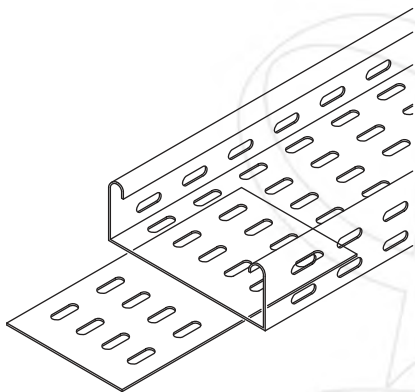
For vertical change of direction.  
Shown is one set of Coupler. Needs two sets to join two trays

## Blind End



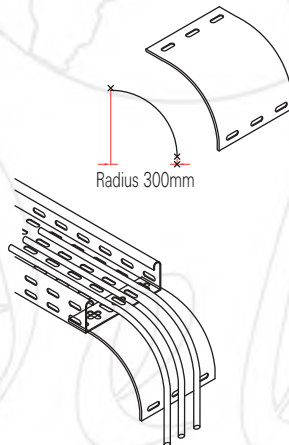
For ordering mention Width and Height of the Cable Tray

## Fish Plate



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

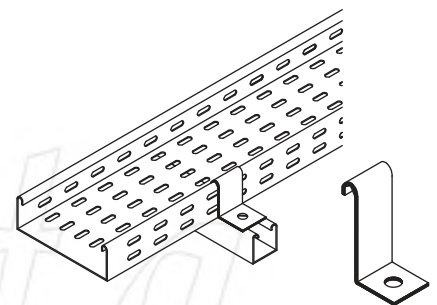
## Drop out



Radius 300mm

Mention width of tray while ordering

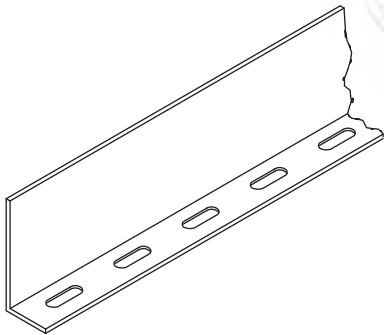
## Hold Down Clip



Fastenings order separately

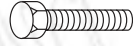
# Cable Tray Accessories

## Divider



## Fastenings

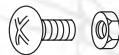
Hexagon Head Bolts



Hexagon Nuts



Roofing Bolts and Nuts



Flat Washers



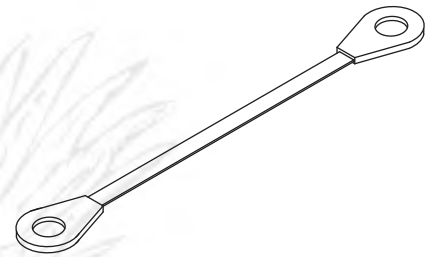
Shakeproof Washers



Threaded Rods



## Earth Continuity Connector



*Braided Copper, 4mm<sup>2</sup> 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.

## Fastenings

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.

Length between centers: 100mm. Conductor area: 4mm<sup>2</sup>.



## 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	✓	✓	<b>A</b>	-	✓	-	<b>CS</b>
Bend Coupler	✓	✓		-	✓	-	<b>CC</b>
Plate Coupler	✓	✓		-	✓	-	<b>CP</b>
Adjustable Horizontal Coupler	✓	✓		-	✓	-	<b>AHC</b>
Adjustable Vertical Coupler	✓	✓		-	✓	-	<b>AVC</b>
Blind End	✓	✓		✓	✓	-	<b>BE</b>
Fish Plate	✓	✓		✓	-	-	<b>FP</b>
Drop Out	✓	✓		✓	-	-	<b>DO</b>
Hold Down Clip	✓	✓		-	✓	-	<b>HDL</b>
Divider	✓	✓		-	✓	3	<b>DI</b>

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.**

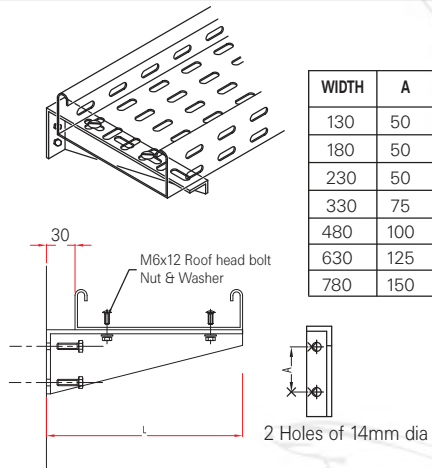
# Support Systems for Delta cable tray

- While ordering cantilever bracket and cantilever arm a safe working distance of 30mm is to be added to width of the tray. **E.g : for 100mm tray DEB 130**

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

More support options are available in Page No : 24

## Cantilever Bracket

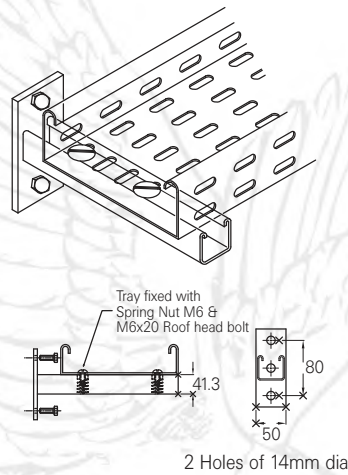


	L	UDL
DEB	130	170
DEB	180	160
DEB	230	155
DEB	330	140
DEB	480	110
DEB	630	100
DEB	780	130

L - Length of the arm

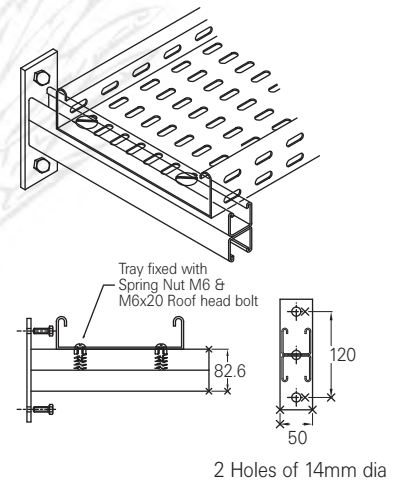
UDL - Uniformly distributed load in kgf

## Single Cantilever arm



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

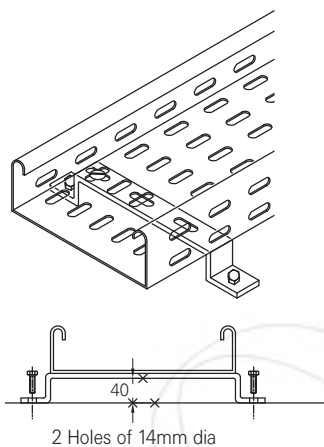
## Double Cantilever arm



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

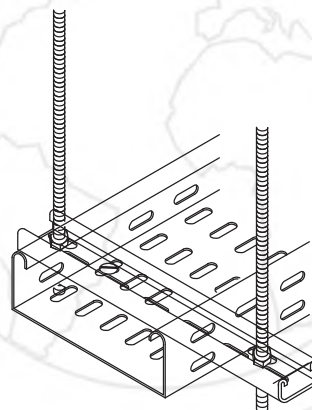
\*Slip limits loading capacity when using in Strut Channel as column. Refer Page No : 24

## Stand off Bracket



	L
SEB	100
SEB	150
SEB	200
SEB	300
SEB	450
SEB	600
SEB	750
SEB	900

## Trapeze Hanger

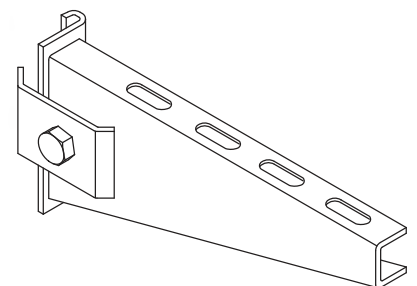


41 x 21 (DB 200 Series) Channel is recommended for trays up to 200mm width. For 300mm onwards use 41 x 41 (DB 100 Series). Can be ordered in slotted profile in 3 meter. See delta strut Channel section for ordering information.

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

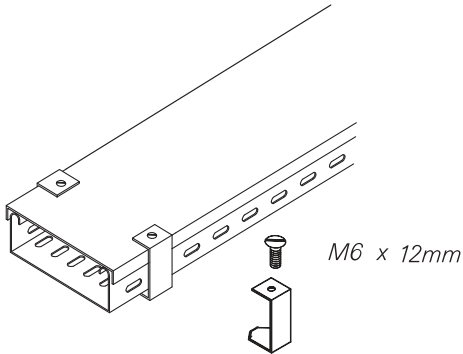
- Please note that above given loads are for general guidelines only.
- For Cable trays above 600mm width order double cantilever arm to increase safe working load.
- Trapeze Hanger is only shown to convey the idea of hanging tray from ceiling.

# 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.

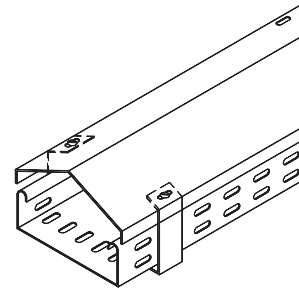
- Fittings normally needs four Clamps. For wider ones 5 Clamps needed.
- Reinforcing type of profile is used in wider covers.

## Solid Flange cover



Order Side Cover Clamp (SFA) and M6 x 12mm Roofing bolt separately. Minimum possible width is 100mm for straight section & fittings

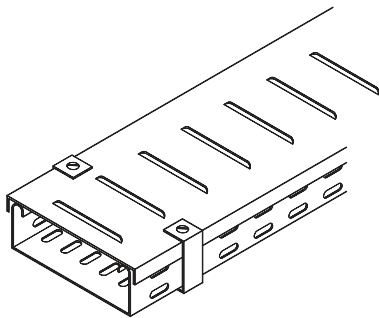
## Dome Type cover



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

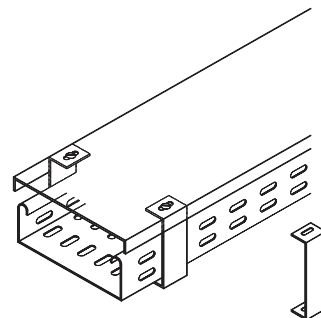
\*Maximum size - 600mm width  
\*Not available for fittings

## Louvered cover



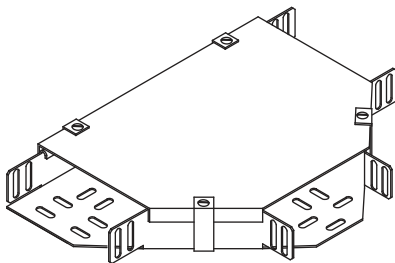
Order Side Cover Clamp (LFA) and M6 x 12mm Roofing bolt separately.

## Raised Ventilated cover



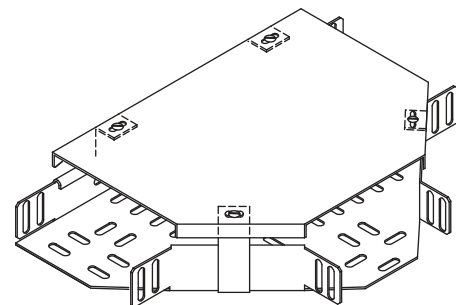
Order Side Cover Clamp (VFA) and 2 Sets of M6 x 12mm Roofing bolt, Nut & Washer separately.

## 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	Type	Side Height	Abbreviation
Solid Flange	✓	✓	SFA	✓	<b>SCC</b>
Dome Type	✓	✓	DFA	✓	<b>SCC</b>
Raised Ventilated	✓	✓	VFA	✓	<b>SCC</b>
Louvered	✓	✓	LFA	✓	<b>SCC</b>

## How to order Support system for Cable tray

Base Metal		Finish		Type
Mild Steel	<b>1</b>	Mild Steel	<b>P</b>	<b>DEB</b> <b>DEC</b> <b>DED</b> <b>SEB</b> <b>DB Series</b> <b>DA Series</b> <b>DEI</b>
Aluminium	<b>2</b>	HDGBF	<b>G</b>	
S/Steel 316L	<b>3</b>	HDGAF		
S/Steel 304	<b>4</b>	Stainless Steel		
Corten A Steel	<b>5</b>	Aluminium	<b>M</b>	
		Normal Finish		
Length		Epoxy finish (If Required)		
130	480	Epoxy (EPAG)	<b>E</b>	
180	630			
230	780			
330	930			

Eg. of Support System for 300mm tray in 2mm thickness

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

## How to Order Straight Section and Fittings Cover

Base Metal		Finish		Design		Type
Mild Steel	<b>1</b>	Mild Steel	<b>P</b>	Solid Cover	<b>SF</b> <b>LF</b> <b>VF</b> <b>DF</b>	Tray and Fittings Cover <b>A</b>
Aluminium	<b>2</b>	HDGBF	<b>G</b>	Louvered Cover		
S/Steel 316L	<b>3</b>	HDGAF		Ventilated Cover		
S/Steel 304	<b>4</b>	Stainless Steel		Dome Cover		
Corten A Steel	<b>5</b>	Aluminium	<b>M</b>			
		Normal Finish				
Elements		Width		Length		
Refer Page No : 11		50 to 900		2000	<b>2</b>	
				2440	<b>2.44</b>	
				3000	<b>3</b>	
Type of curvature		Epoxy finish if required				
Gusset		<b>G</b>		E (EPAG)		

### 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

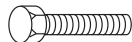
**1GSFA-9H100-G-4-E (If Required)**

# Delta Channel Support system

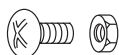
## Standard fixing and fastenings

### Fastenings

Hexagonal Head Bolts



Roofing Bolts and Nuts



Spring Washer



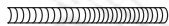
Hexagonal Nuts



Flat Washers



Threaded Rods



### Hexagonal Head Bolts

#### Electro Plated Zinc

M6 x 16	pack 100	HB0616EG
M6 x 20	pack 100	HB0620EG
M6 x 25	pack 100	HB0625EG
M8 x 16	pack 100	HB0816EG
M8 x 20	pack 100	HB0820EG
M8 x 25	pack 100	HB0825EG
M8 x 30	pack 100	HB0830EG
M8 x 35	pack 100	HB0835EG
M8 x 40	pack 100	HB0840EG
M10 x 20	pack 100	HB1020EG
M10 x 25	pack 100	HB1025EG
M10 x 30	pack 100	HB1030EG
M10 x 35	pack 100	HB1035EG
M10 x 40	pack 100	HB1040EG
M10 x 50	pack 100	HB1050EG
M12 x 20	pack 100	HB1220EG
M12 x 25	pack 100	HB1225EG
M12 x 30	pack 100	HB1230EG
M12 x 35	pack 100	HB1235EG
M12 x 40	pack 100	HB1240EG
M12 x 50	pack 100	HB1250EG

#### Hot Dip Galvanized

M6 x 12	pack 100	HB0612HG
M6 x 16	pack 100	HB0616HG
M6 x 20	pack 100	HB0620HG
M6 x 35	pack 100	HB0635HG

#### Stainless Steel (A4)

M6 x 20	pack 100	HB0620A4
M6 x 25	pack 100	HB0625A4
M8 x 25	pack 100	HB0825A4
M8 x 35	pack 100	HB0835A4
M8 x 40	pack 100	HB0840A4
M10 x 16	pack 100	HB1016A4
M10 x 25	pack 100	HB1025A4
M10 x 40	pack 100	HB1040A4
M12 x 25	pack 100	HB1225A4

#### Stainless Steel (A2)

M6 x 20	pack 100	HB0620A2
M6 x 25	pack 100	HB0625A2
M8 x 25	pack 100	HB0825A2
M8 x 35	pack 100	HB0835A2
M8 x 40	pack 100	HB0840A2
M10 x 16	pack 100	HB1016A2
M10 x 25	pack 100	HB1025A2
M10 x 40	pack 100	HB1040A2
M12 x 25	pack 100	HB1225A2

### Hexagonal Nuts

#### Electro Plated Zinc

M6	pack 500	HN06EG
M8	pack 500	HN08EG
M10	pack 200	HN10EG
M12	pack 200	HN12EG

Hot Dip Galvanized M6	pack 500	HN06HG
Stainless Steel (A4) M6	pack 100	HN06A4
M8	pack 100	HN08A4
M10	pack 100	HN10A4
M12	pack 100	HN12A4

Stainless Steel (A2) M6	pack 100	HN06A2
M8	pack 100	HN08A2
M10	pack 100	HN10A2
M12	pack 100	HN12A2

Roofing Bolts Electroplated Zinc M6 x 12	pack 200	RB0612EG
M6 x 16	pack 200	RB0616EG
M6 x 20	pack 200	RB0620EG
M6 x 25	pack 200	RB0625EG
M6 x 30	pack 100	RB0630EG
M6 x 40	pack 100	RB0640EG
M6 x 50	pack 100	RB0650EG

Hot Dip Galvanized M6 x 12	pack 100	RB0612HG
M6 x 16	pack 100	RB0616HG

Stainless Steel (A4) M6 x 12	pack 100	RB0612A4
M6 x 16	pack 100	RB0616A4
M6 x 20	pack 100	RB0620A4

Stainless Steel (A2) M6 x 12	pack 100	RB0612A2
M6 x 16	pack 100	RB0616A2
M6 x 20	pack 100	RB0620A2

### Flat Washers

Electro Plated Zinc M6	pack 500	FW06EG
M8	pack 500	FW08EG
M10	pack 500	FW10EG
M12	pack 200	FW12EG

Stainless Steel (A2) M6	pack 100	FW06A2
M8	pack 100	FW08A2
M10	pack 100	FW10A2
M12	pack 100	FW12A2

### Spring Washer

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	TR08EG
M10 x 2m	TR10EG
M12 x 2m	TR12EG

Stainless Steel (A4) M6 x 2m	TR06A4
M8 x 2m	TR08A4
M10 x 2m	TR10A4
M12 x 2m	TR12A4

Stainless Steel (A2) M6 x 2m	TR06A2
M8 x 2m	TR08A2
M10 x 2m	TR10A2
M12 x 2m	TR12A2

● For threaded rods of 2 meter length add /2 after the code.

Eg. M6x2 Meters - TR 06EG /3

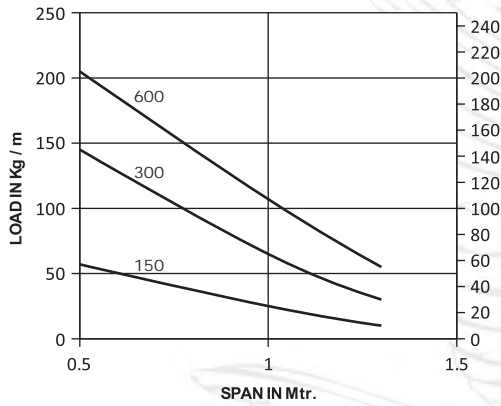


# Load Graphs for Cable Tray



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

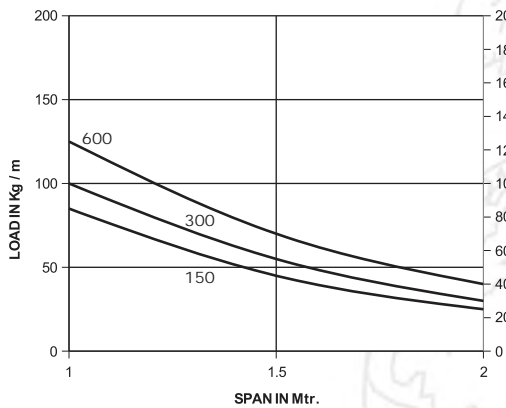
## 12MM Side Height Cable Tray



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

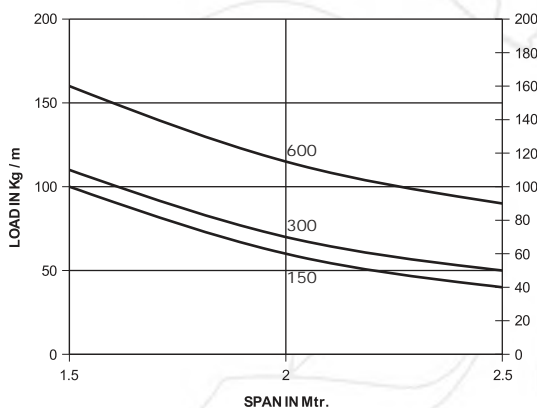
Desired coupler location is one quarter of the span length away from support point where ever possible.

## 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.

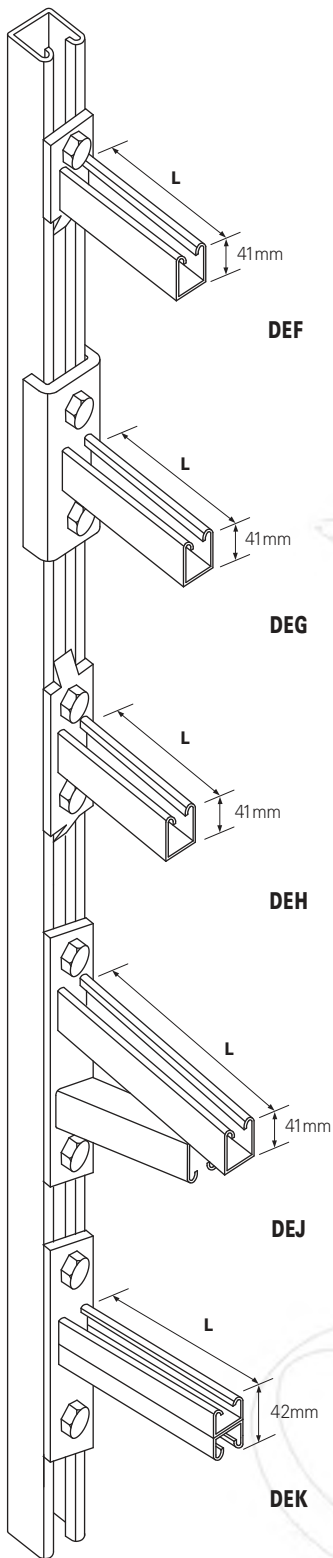
Note : For guidelines only. Any claim for varied performance is not accepted.

# More Support Systems

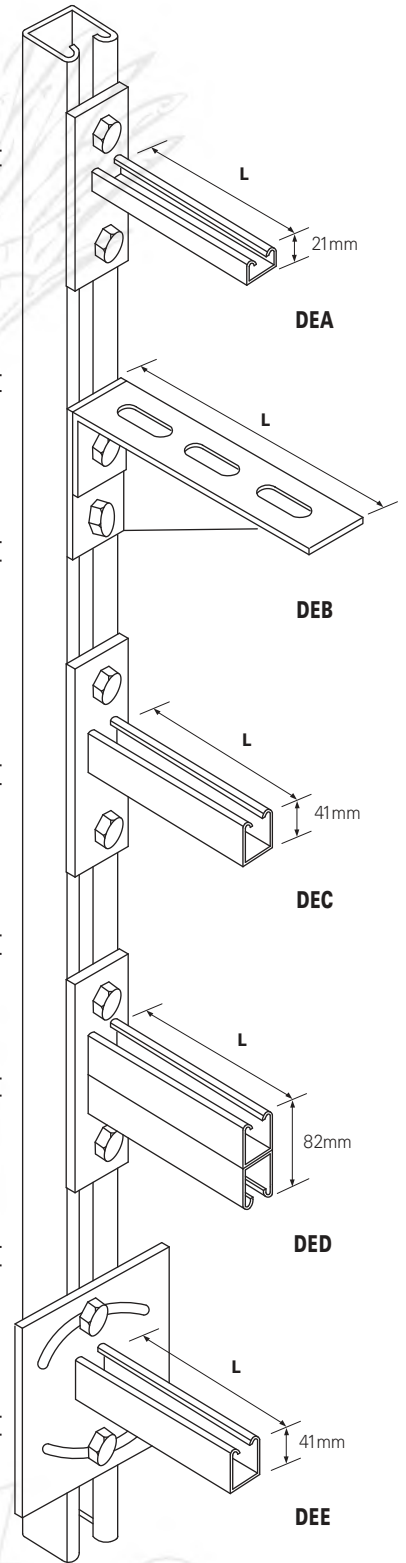
Details shown in more support options using DB100 (41 x 41mm) Series Channels as column.

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	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 <sup>a</sup>	0.64
DEC	230	370	0.80
DEC	330	270	1.10
DEC	480	175	1.50
DEC	630	140	1.80
DED	180	750 <sup>a</sup>	1.20
DED	230	660 <sup>a</sup>	1.60
DED	330	600 <sup>a</sup>	2.00
DED	480	380	2.80
DED	630	305	3.60
DED	780	210	4.60
DED	930	175	5.40
DEE	180	550 <sup>a</sup>	1.20
DEE	230	370	1.40
DEE	330	270	1.70
DEE	480	175	2.10
DEE	630	140	2.40
DEF	180	390 <sup>a</sup>	0.54
DEF	230	310	0.70
DEF	330	245	1.00
DEF	480	190	1.40
DEG	180	550 <sup>a</sup>	0.84
DEG	230	370	1.00
DEG	330	270	1.30
DEG	480	175	1.70
DEG	630	140	2.00
DEH	180	550 <sup>a</sup>	0.64
DEH	230	370	0.80
DEH	330	270	1.10
DEH	480	175	1.50
DEH	630	140	1.80
DEJ	330	750 <sup>a</sup>	1.70
DEJ	480	500 <sup>a</sup>	2.40
DEJ	630	375	2.80
DEJ	780	300	3.80
DEJ	930	200	4.50
DEK	330	454 <sup>a</sup>	1.20
DEK	480	320	1.60
DEK	630	246	1.90



\* Uniformly Distributed Load in Kgf

<sup>a</sup> Slip Limit Loading Capacity

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.



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## Delta Cable Surface Trunkings

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*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

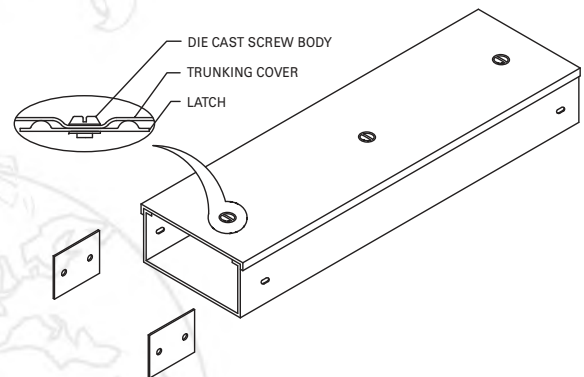
## Length

3 mtr as standard. Other lengths are also available.

## Type

Single or multi compartment Trunking

### Standard trunking 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 Size	Conductor size sq. mm											
	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	65	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

DELTA - Cable Trunking 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

**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.

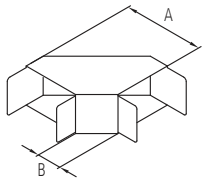
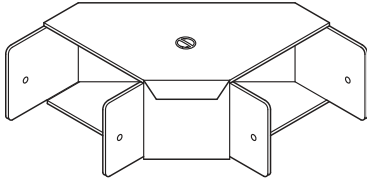
Contact Sales Desk for Various fitting thickness.

# Delta Cable Trunking Fittings

All fittings shown are gusset type construction

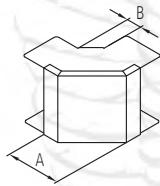
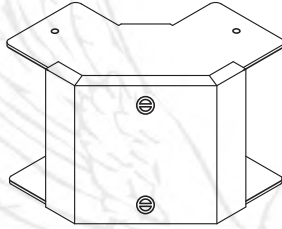
## 90° Bend

### Cover on Top



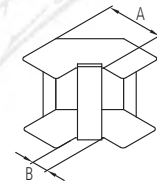
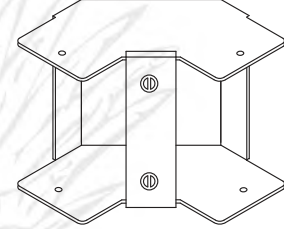
WIDTH	A	B
50	85	35
100	110	35
150	185	35
200	235	35
300	335	35

### Cover on Outside



WIDTH	A	B
50	85	35
100	110	35
150	185	35
200	235	35
300	335	35

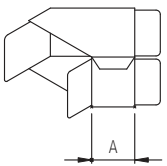
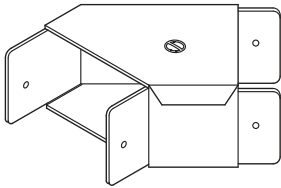
### Cover on Inside



WIDTH	A	B
50	85	35
100	110	35
150	185	35
200	235	35
300	335	35

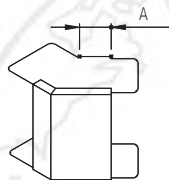
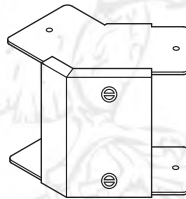
## 45° Bend

### Cover on Top



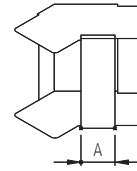
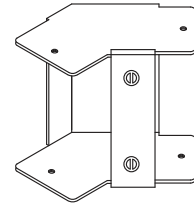
WIDTH	A
50	35
75	35
100	35
150	35
200	35
300	35

### Cover on Outside



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

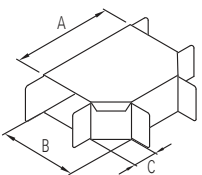
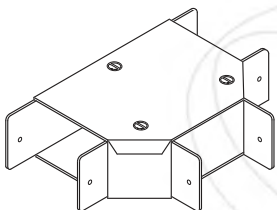
### Cover on Inside



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

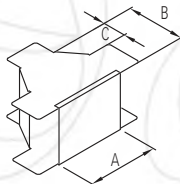
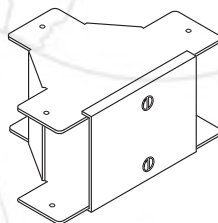
## Tees

### Cover on Top



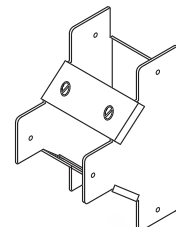
WIDTH	A	B	C
50	120	85	35
75	145	110	35
100	170	135	35
150	220	185	35
200	270	235	35
300	370	325	35

### Cover on Outside



WIDTH	A	B	C
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



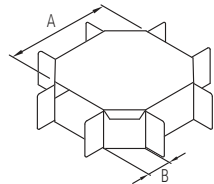
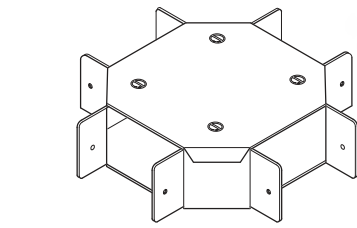
WIDTH	A	B	C
50	120	85	35
75	145	110	35
100	170	135	35
150	220	185	35
200	270	235	35
300	370	325	35

• 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.

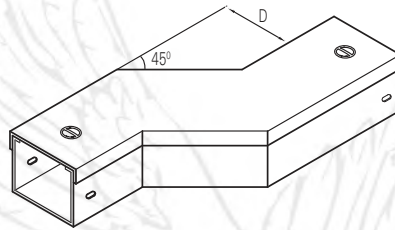
# Delta Cable Trunking fittings and Coupler details

## Cross



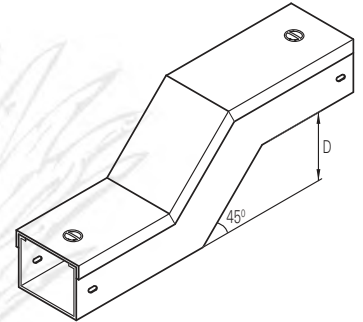
WIDTH	A	B
50	120	35
75	145	35
100	170	35
150	220	35
200	270	35
300	370	35

## Horizontal Offset



D - Offset Distance (Max 300mm)

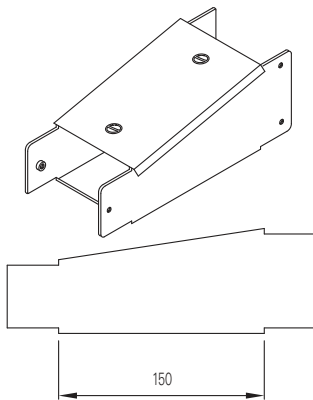
## Vertical Offset



D - Offset Distance (Max 300mm)

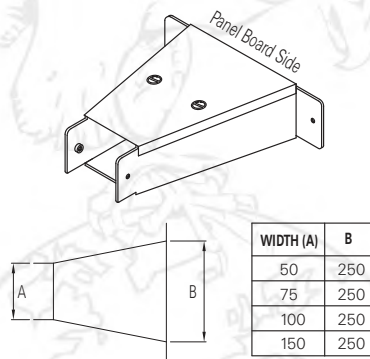
While ordering horizontal and vertical offset mention distance 'D' required. Two 45° bends can be connected together with a fitting adaptor (Page No: 32) to get an offset where offsetting distance is very less. Contact Sales Desk for Long Offset Distance Solution.

## Reducer



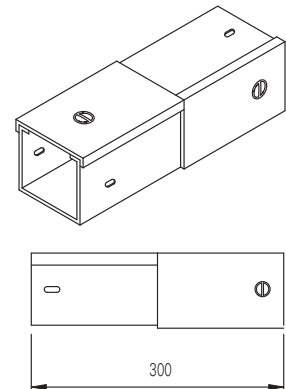
Always mention big size first while ordering

## Bell Mouth

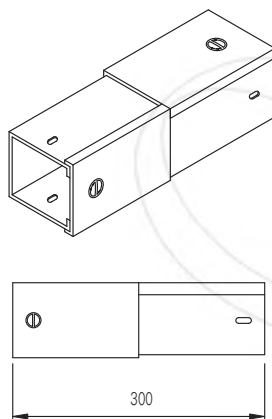


Used to connect Trunking to Panel Board.  
For narrow size panel board give details of B

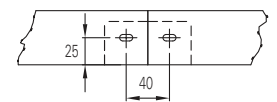
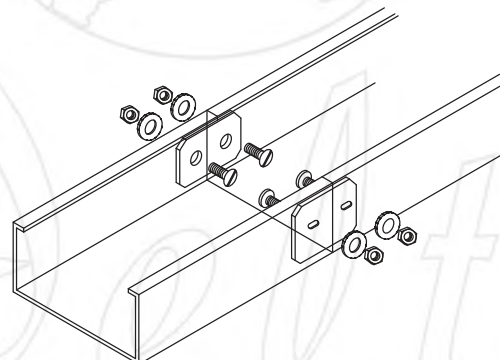
## Change Face Right



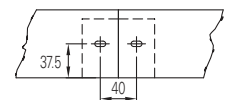
## Change Face Left



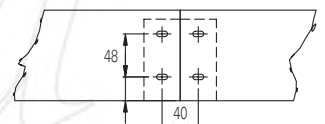
## Coupler Details



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

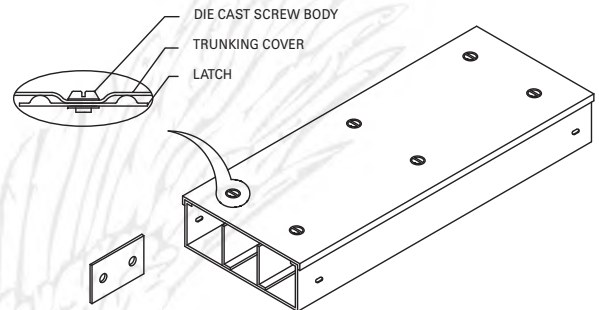
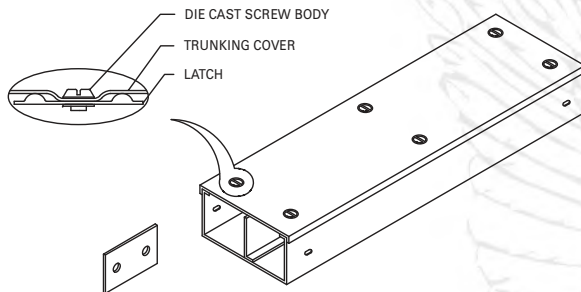
• Note : Change face not available in Compartment Trunkings.

## 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.

**Example IPRTR / ☆-3SS64-3**

No. of Compartments.

Delta



# How to Order Straight Length & Fitting

Base Metal		Finish		Type	
Mild Steel	<b>1</b>	Mild Steel	<b>P</b>	Return edge Trunking	<b>R</b>
Aluminium	<b>2</b>	HDGBF	<b>G</b>		
S/Steel 316L	<b>3</b>	HDGAF			
S/Steel 304	<b>4</b>	Stainless Steel			
		Aluminium	<b>M</b>		
		Normal Finish			
Item		Thickness		Elements	
Trunking	<b>TR</b>	1.00 mm	<b>1</b>	Straight Length	<b>SS</b>
		1.20 mm	<b>2</b>	90° Bend	<b>9H</b>
		1.50 mm	<b>3</b>	Tee	<b>HT</b>
		2.00 mm	<b>4</b>	Unequal Tee	<b>HUT</b>
				Cross	<b>HC</b>
				Unequal Cross	<b>HUC</b>
				Horizontal Offset	<b>HOF</b>
				Vertical Offset	<b>VOF</b>
				Straight Reducer	<b>RS</b>
				Bell Mouth	<b>BM</b>
				Change face right	<b>FR</b>
Width		Depth		Length	
50	<b>2</b>	50	<b>2</b>	2.44 Meter	<b>2.44</b>
75	<b>3</b>	75	<b>3</b>	3.0 Meter	<b>3</b>
100	<b>4</b>	100	<b>4</b>		
150	<b>6</b>	150	<b>6</b>		
200	<b>8</b>	200	<b>8</b>		
Position of Cover		Epoxy finish if required			
<b>T</b>	Cover on Top	<b>E (EPAG)</b>			
<b>I</b>	Cover on Inside				
<b>O</b>	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".

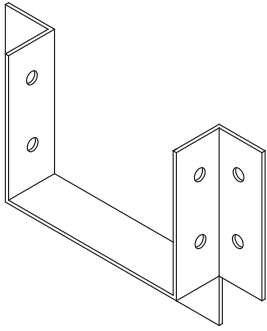
eg. 1PRTR / 3 - 2SS 64 - 3

**Note 3.** For elements other than 90° use 4H - 45°

**Note 4.** For change face left - FL

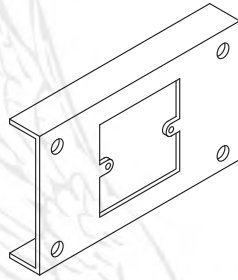
# Accessories for installation of cable Trunking

## Wall Flange



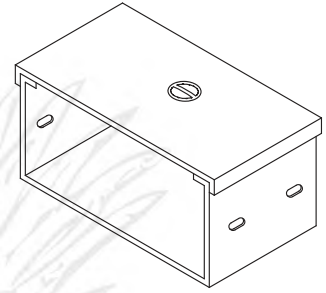
Uses where one end of the Trunking rests on the wall.

## Socket Plate



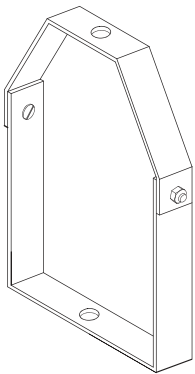
Specify the type of socket going to use

## Fitting Adaptor

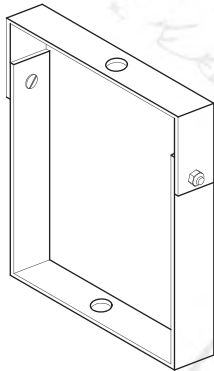


Connects two trunking fittings

## Suspension Hanger



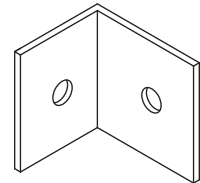
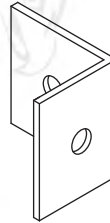
**Type A**



**Type B**

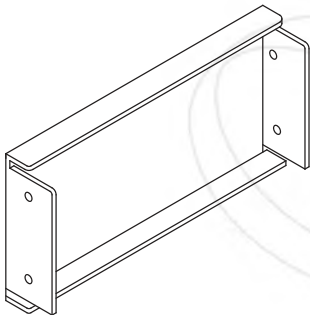
Maximum Dia of threaded rod can be used is 10mm.  
Top and Bottom Pieces joined together with 2 sets of  
M6 x 12 mm Roofing Bolt, Nut and Washer.

## Angle Connector



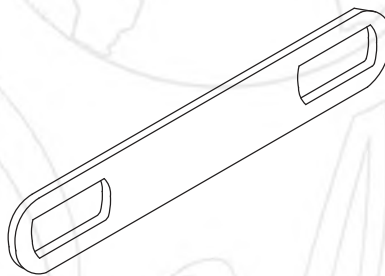
Supplied in pairs. Uses M6 x 12 mm size Roofing Bolt,  
Nut and Washer to connect to trunkings.

## Blind End



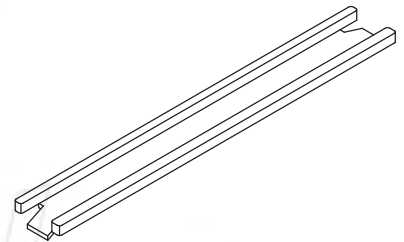
Mention Width and Height Trunking  
while order. Install where the routing  
of cable terminates.

## Earth Continuity Connector



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

## Cable Retainer



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)	Type	Item	Width (Ref. Page31)	Depth (Ref. Page31)	Abbreviation
Wall Flange	✓	✓	<b>R</b>	<b>TR</b>	✓	✓	WF
Socket Plate	✓	✓			✓	-	SP
Fitting Adaptor	✓	✓			✓	✓	FA
Suspension Hanger	✓	✓			✓	✓	SH
Angle Connector	✓	✓			-	✓	AC
Blind End	✓	✓			✓	✓	BE
Cable Retainer	✓	✓			✓	-	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.

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## Weather proof and Lighting Trunking

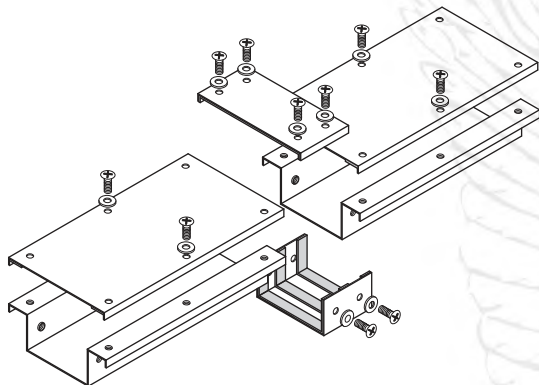
---

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+Power Coated  
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**

---

### 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.

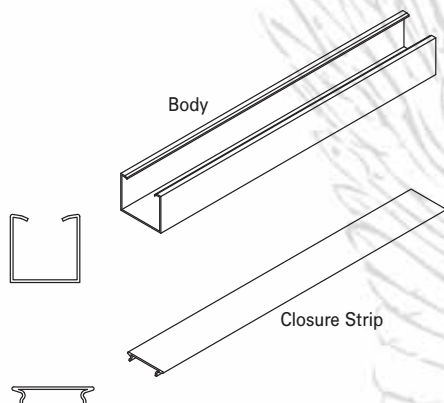
IP 66 Completely dust proof. Protected against high pressure water jets.

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 Thickness	:	1 mm for Body and Closure strip
Standard Size	:	50 x 50 mm

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

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

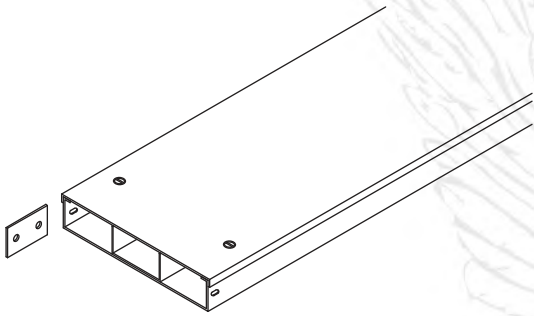
*E.g of Straight Section*

**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

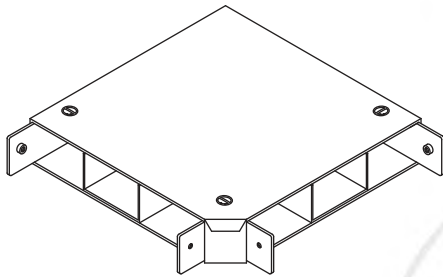
Standard length: - 3 mtr.

Side Height:- 50 mm

No. of compartments:- 2, 3 & 4

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

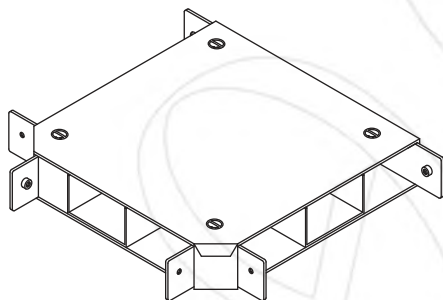
### 90° Horizontal Bend



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

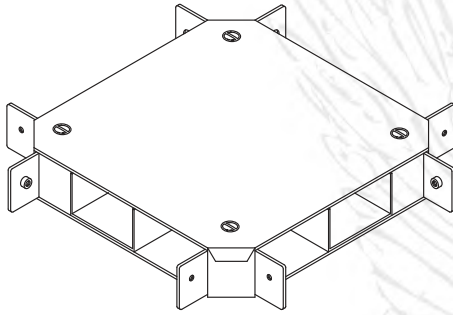
All Trunking and Components are manufactured from pre-galvanized sheet steel to BS EN 10142 in the following thickness.

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

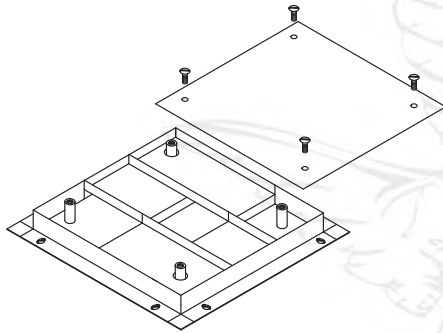
## Cross



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



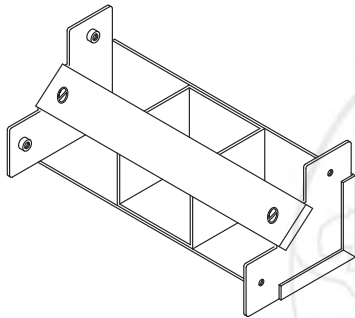
Width	Height	Catalogue No.
200	50	RFT/*-JB 200-50
300	50	RFT/*-JB 300-50
450	50	RFT/*-JB 450-50

\*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

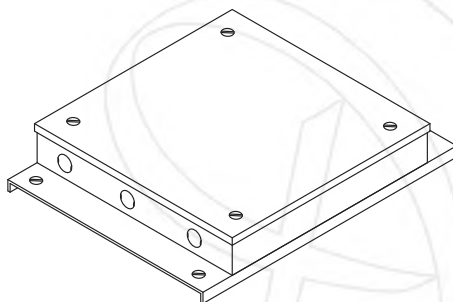
## Inside Riser



Width	Height	Catalogue No.
100	50	RFT/*-9RI 100-50
150	50	RFT/*-9RI 150-50
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.

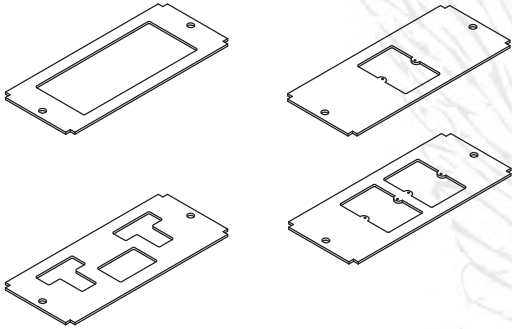
100 to 200mm width - 1mm thick body and cover.

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

## Raised Floor / Cavity Floor Trunking Accessories

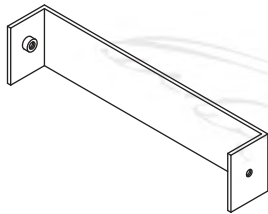
Give details of socket for which socket plate is to be manufactured. Normally available in epoxy finish.

### Socket Plates



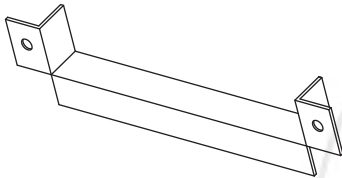
Type	Catalogue No.
Data	RFT / * - SP - D
Power	RFT / * - SP - P
Communication	RFT / * - SP - C

### 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

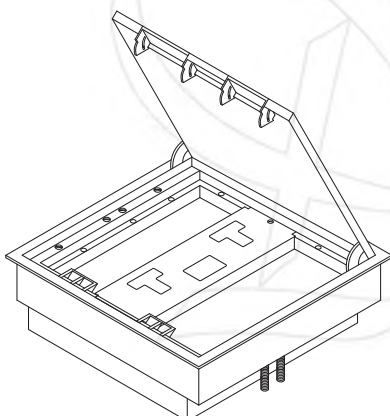
### Wall Flange



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

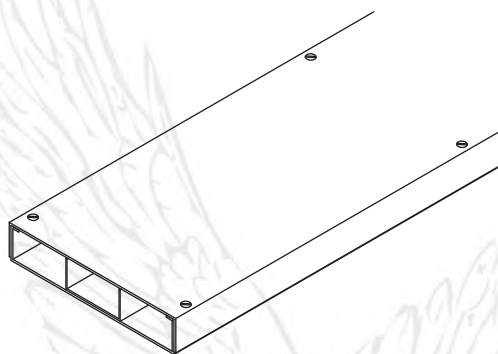
  

Thickness	1.00 mm
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## Under Screed / Buried Screed Trunking

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

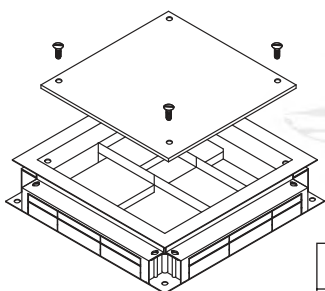


Standard length: 3 mtr.  
Side Height: 38 mm  
No. of compartments: 3 & 4

Size	Catalogue No.
225X38	UFT / * - 225 - 38
300X38	UFT / * - 300 - 38

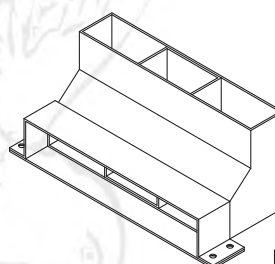
\*No of Compartment

### Junction Box



Thickness	1.00 mm
Size	Catalogue No.
225x38	UFT/* - JB225-38
300X38	UFT/* - JB300-38

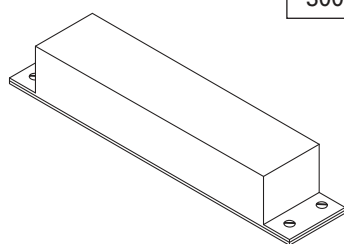
### Vertical access box



Size	Catalogue No.
225X38	UFT/* - VAB-225-38
300X38	UFT/* - VAB-300-38

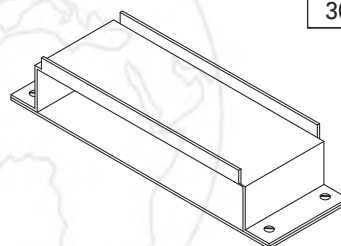
### Blind End

Size	Catalogue No.
225X38	UFT/* - BE-225-38
300X38	UFT/* - BE-300-38



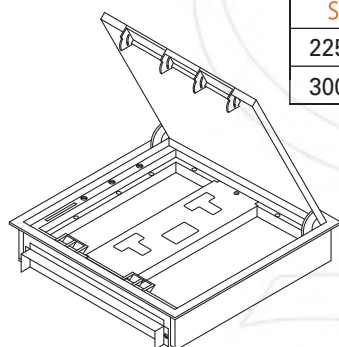
### Coupler

Size	Catalogue No.
225X38	UFT/* - CS-225-38
300X38	UFT/* - CS-300-38



### Service Outlet Box with Mould Carpet Rim

Size	Catalogue No.
225X38	UFT / * - SB - 225-38
300X38	UFT / * - SB - 300-38



**Thickness** 1.00 mm  
Socket plates to be ordered separately.

### Material Specification

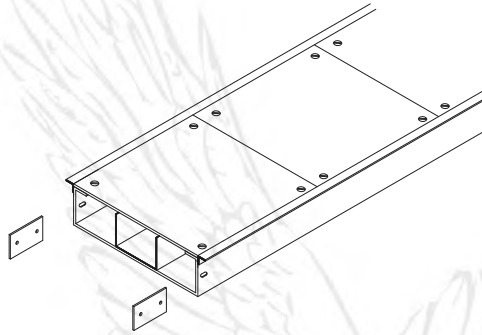
All trunking and components are manufactured from pre-galvanized sheet steel to BS EN 10142 in the following thicknesses.

Cover 1.20mm  
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.

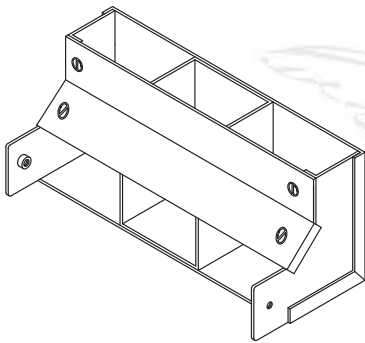


Standard length: - 2.44 mtr.  
Cover : - 6 Numbers of modular cover with size of 406 x 300mm  
No. of compartments:- 3 & 4

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

*\*No of Compartment*

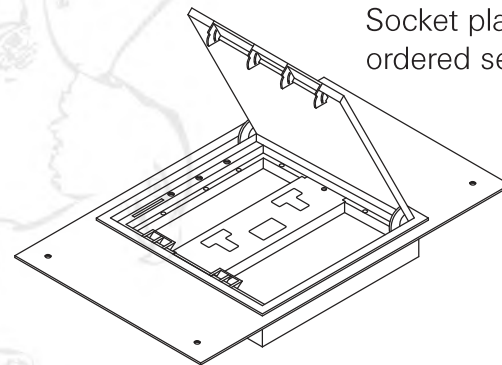
## Inside Riser



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

*\*No of Compartment*

## Service Outlet Box with Moulded Cover

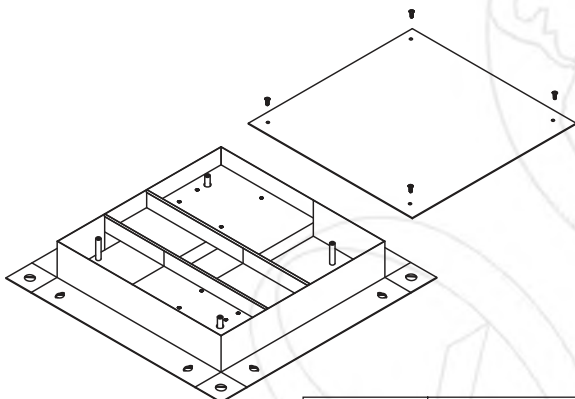


Socket plates to be ordered separately.

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

*\*No of Compartment*

## Junction Box



Size	Catalogue No.
300x65	FFT / *-JB300-65

*\*No of Compartment*

## Material specification

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

Cover	2.5 mm
Body	1.5 mm
Divider	1.2 mm

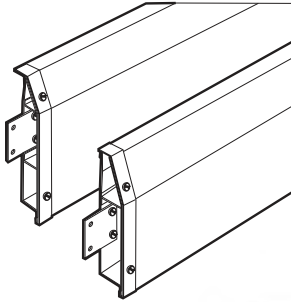
Note : Junction box can act as tee, bend and cross and a straight through connector as per situation.

# Skirting / Dado / Bench Trunking

## Skirting trunking

Skirting 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 completed 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.

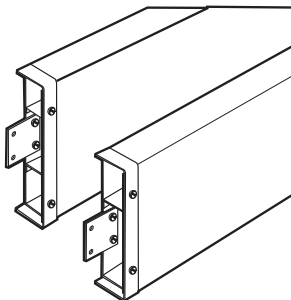
The cover fixing straps allow for easy positioning of socket outlet plates, eliminating the need for drilling when on site cutting is required.

Width mm	Depth mm	Thickness mm	Two Compartment	Three Compartment
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

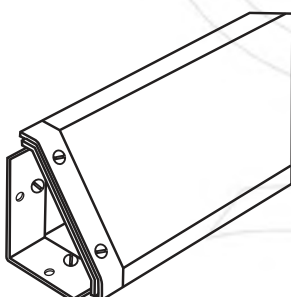
## Bench trunking

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

**The Success Story  
Continues...**





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## **Delta Cable Ladder**

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*As per BSEN 61537*

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## Delta Cable Ladder

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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.

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### Product Specification

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#### 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		
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 subtract 25 mm. This is the usage height for the cable laying. A clearance of  $\pm 3$ mm 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.**

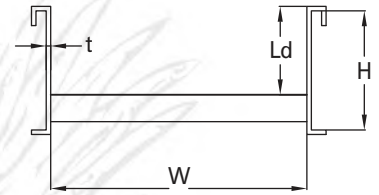
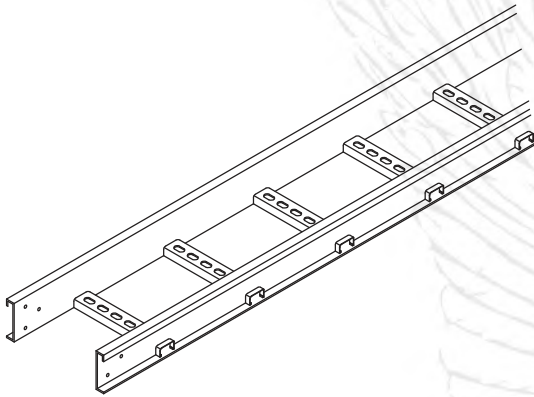
*Note : Ladder is not meant for torsional rigidity. Cannot be used as a walkway. Aluminium ladders are available in riveted condition.*

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

# Delta Cable Ladder

Couplers should be ordered separately. Available Thickness is 2mm

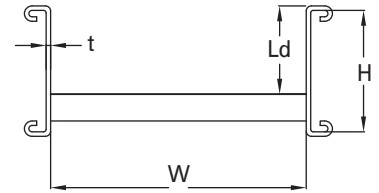
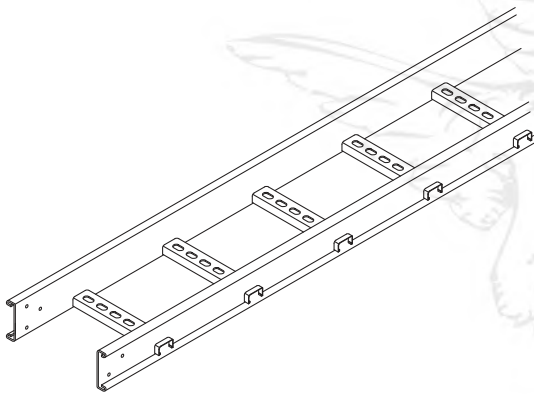
## Type C



Ld = Loading Depth (Usable Height)

Width and Height are the inside dimension of the ladder

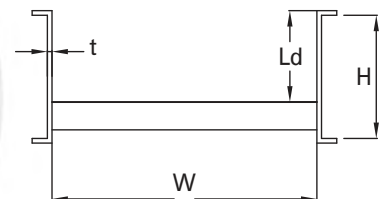
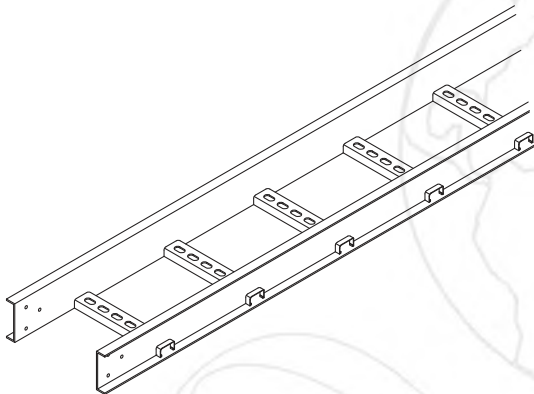
## Type R



Ld = Loading Depth (Usable Height)

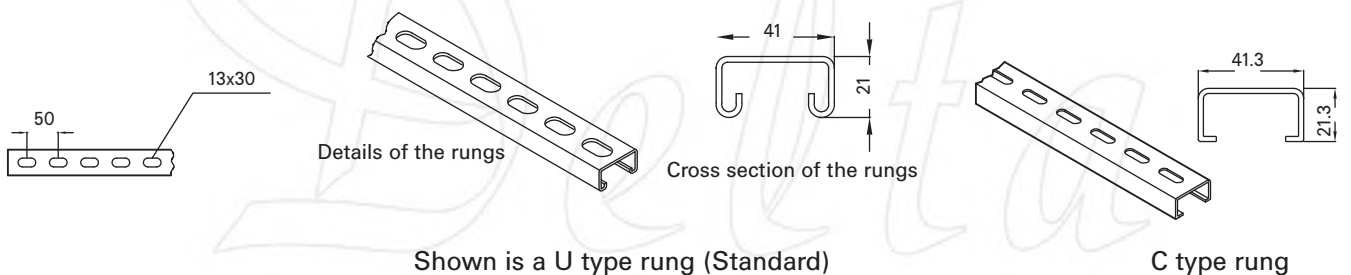
Minimum side height available is 100 mm

## Type P



Ld = Loading Depth (Usable Height)

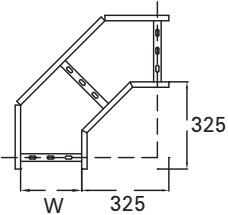
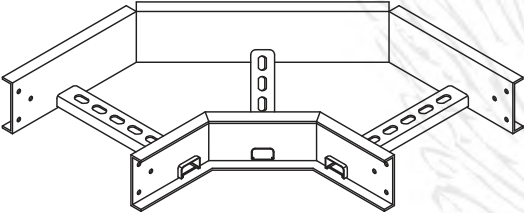
## Slot Size



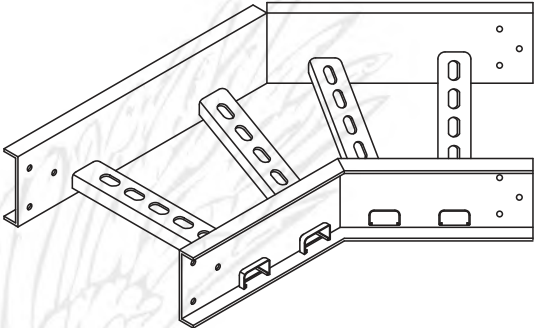
We have Marine Ladder also in our product range. Contact Sales Desk for Details

# Delta Cable Ladder Fittings

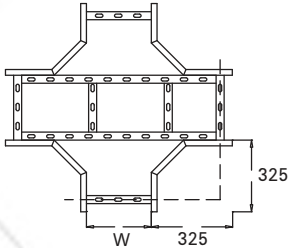
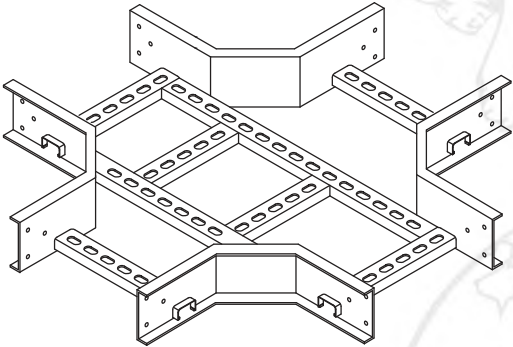
## 90° Horizontal Bend



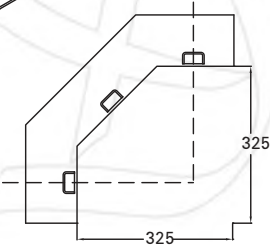
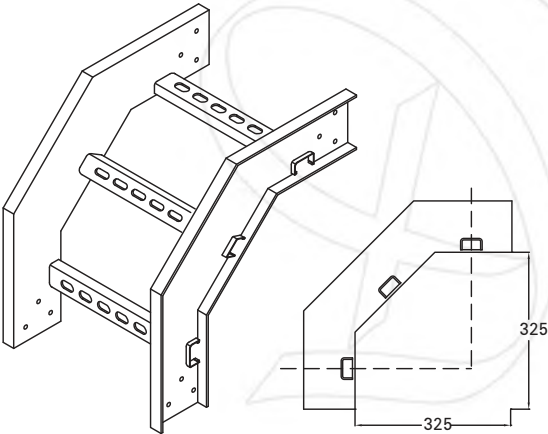
## 45° Horizontal Bend



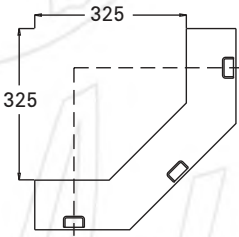
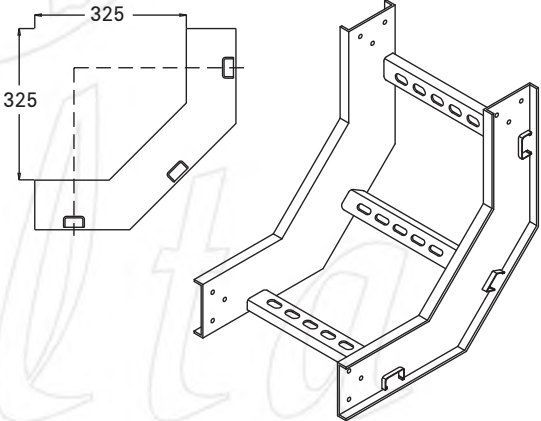
## Horizontal Cross



## 90° Riser Outside



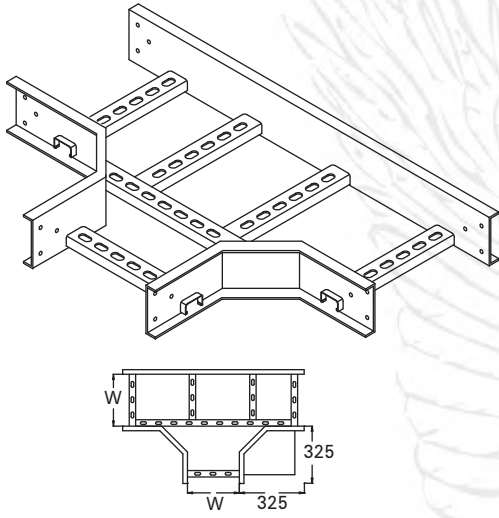
## 90° Riser Inside



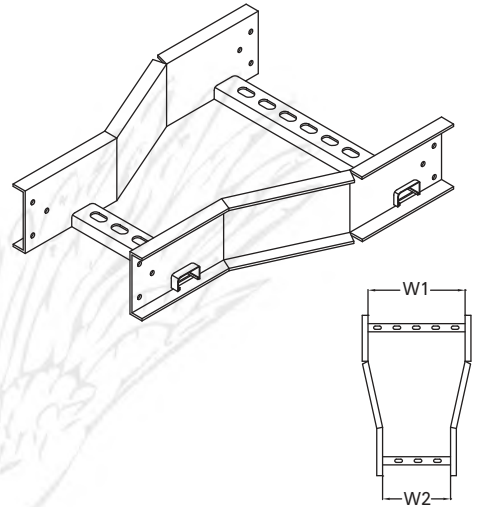


# Delta Cable Ladder Fittings

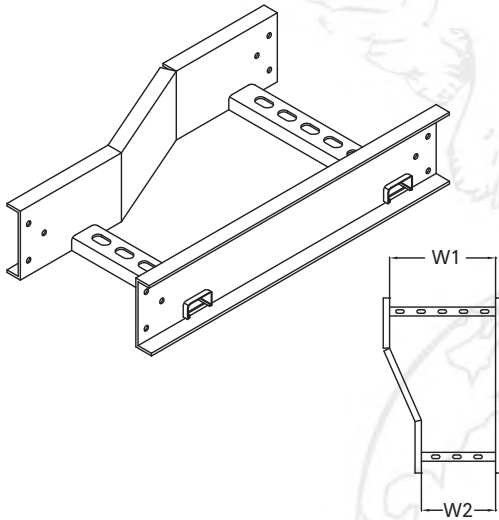
## Horizontal Tee



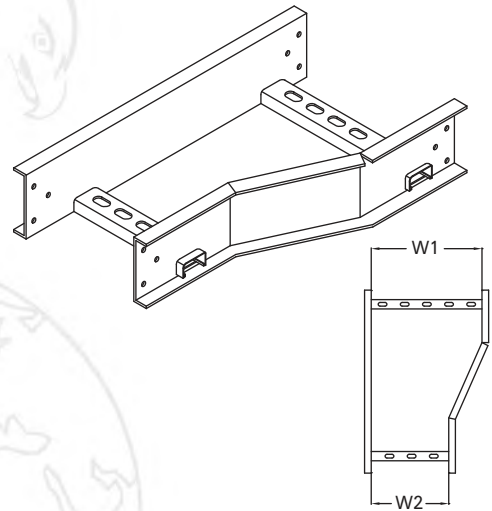
## Straight Reducer



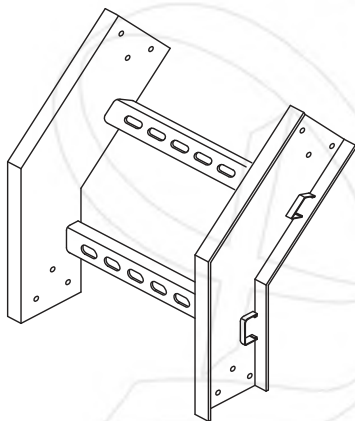
## Left Hand Reducer



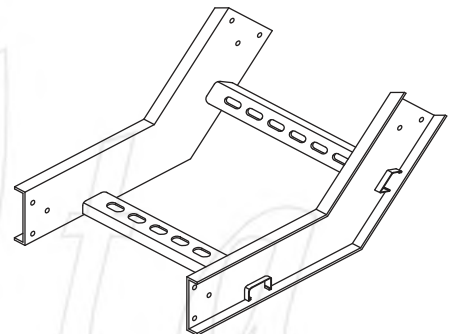
## Right Hand Reducer



## 45° Riser Outside



## 45° Riser Inside



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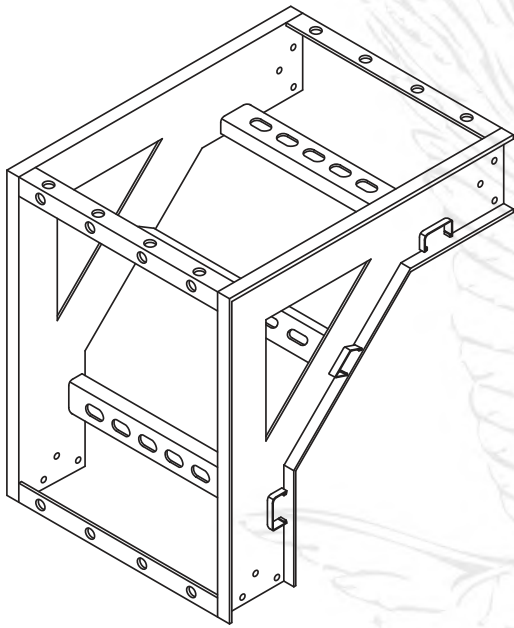
# Delta Cable Ladder Fittings

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## 90° Vertical Support Elbow

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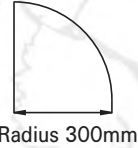
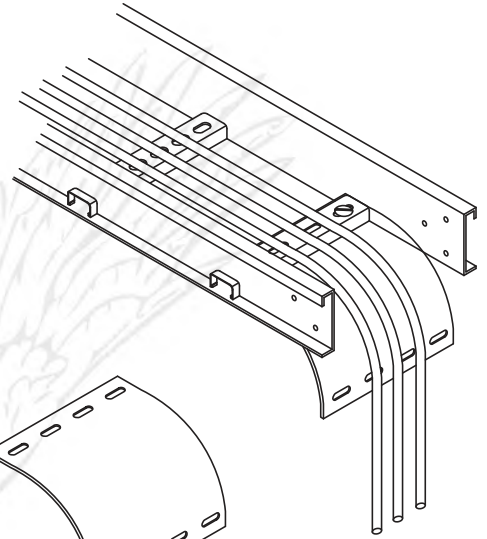
Give a rigid support to cable while dropping down through the wall

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## Dropout

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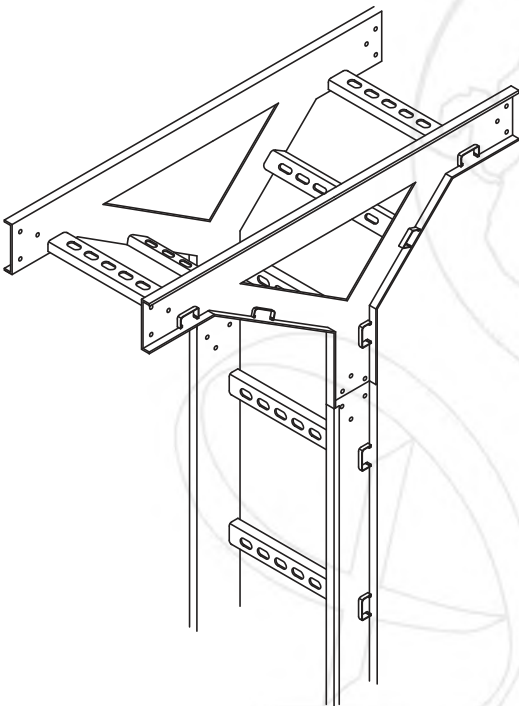
Material Thickness is 2 or 1.5 mm Depending on width

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## Vertical Tee

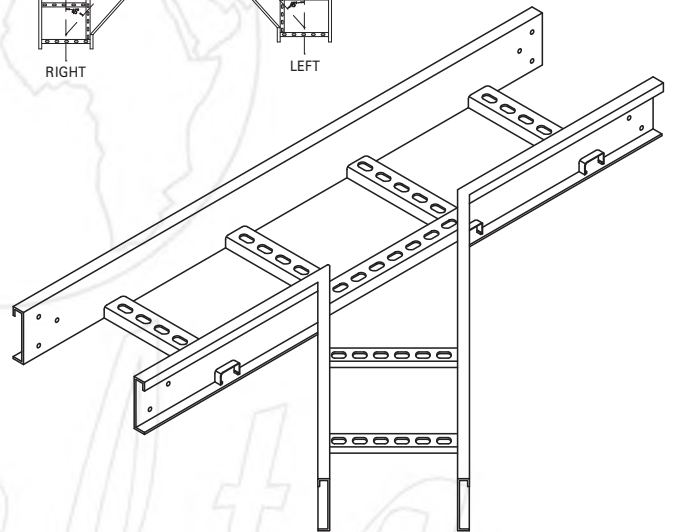
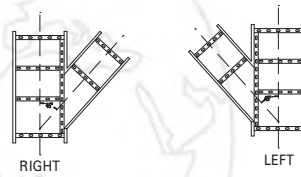
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## 45° 'Y' Branch

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Available Left & Right. Shown is a Left Y Branch

---

# How to Order Delta Cable Ladder and Fittings

Base Metal		Finish		Type	
Mild Steel	<b>1</b>	Mild Steel	<b>P</b>	C Profile (Standard)	R Profile
Aluminium	<b>2</b>	HDGBF	<b>G</b>		
S/Steel 316L	<b>3</b>	HDGAF			
S/Steel 304	<b>4</b>	Stainless Steel		P Profile	
Corten A steel	<b>5</b>	Aluminium			
		Normal Finish	<b>M</b>		
Type of Rung		Thickness		Elements <sup>2</sup>	
U Type Rung (Standard)	<b>U</b>	1.50 mm	<b>3</b>	Straight Section	<b>SS</b>
C Type Rung	<b>C</b>	2.00 mm	<b>4</b>	90° Horiz. Elbow	<b>9H</b>
				90° Riser Inside	<b>9RI</b>
				90° Riser Outside	<b>9RO</b>
				Horizontal Tee	<b>HT</b>
				Horizontal Unequal Tee	<b>HUT</b>
				Vertical Tee	<b>VT</b>
				Horizontal Cross	<b>HC</b>
				Straight Reducer	<b>RS</b>
				Y Branch Right	<b>RY</b>
				Y Branch Left	<b>LY</b>
Width		Side Height		Rung Spacing	
Width Varies from	<b>100</b>	50 mm	<b>2</b>	250 mm	<b>25</b>
100 mm	--	75 mm	<b>3</b>	300 mm (STD)	<b>30</b>
to	--	100 mm	<b>4</b>	450mm	<b>45</b>
1000 mm	<b>1000</b>	125 mm	<b>5</b>		
		150 mm	<b>6</b>		
<i>(Please refer to page no. 44)</i>					
Length		Radius of curvature		Epoxy finish if required	
3000	<b>3</b>	300	<b>3</b>	E (EPAG)	
2440	<b>2.44</b>	450	<b>4.5</b>		
		900	<b>9</b>		

## 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*

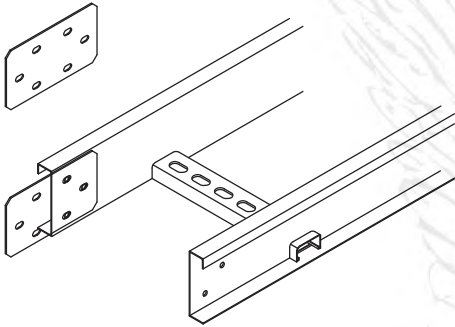
**1GCU-9H300-4-3-4-E (If Required)**

1. 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

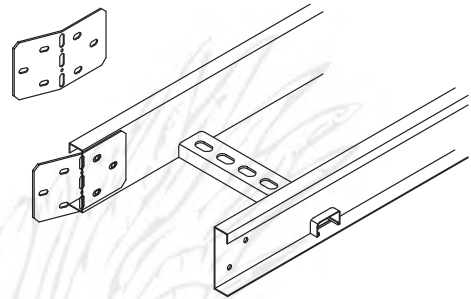
# Cable Ladder Accessories and Cover Fixing Arrangements

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

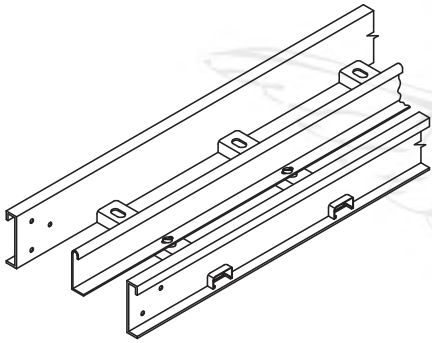
## Standard Coupler



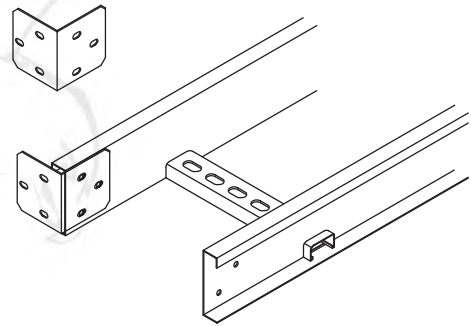
## Adjustable Horizontal Coupler



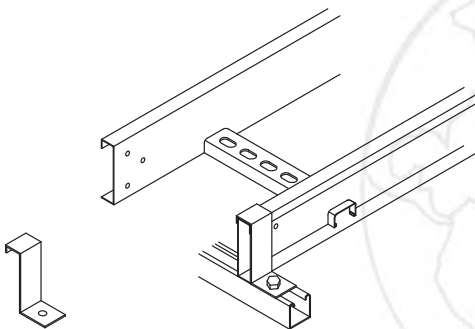
## Divider



## Angle Connector

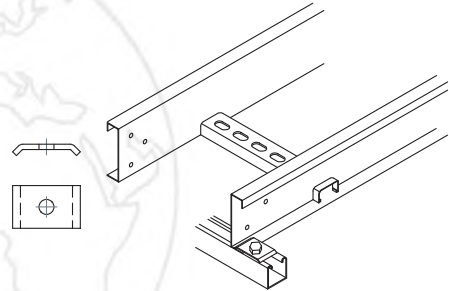


## Raised Hold Down Clip



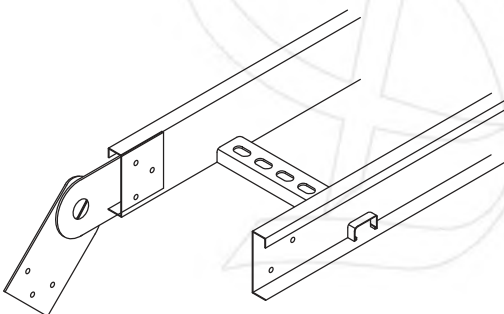
2mm thick steel strip, 14mm hole  
Fastenings order separately

## Hold Down Clamp



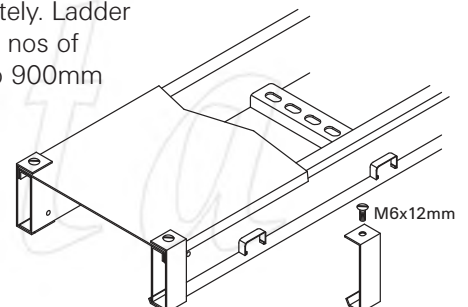
Normally 5mm thick steel strip, 14mm hole  
Contact Sales Desk for Stainless Steel & Aluminium Material  
Thickness

## 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.



## 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	✓	✓	<b>U</b>	-	✓	-	<b>CS</b>
Angle Coupler	✓	✓		-	✓	-	<b>FC</b>
Adj. Horizontal Coupler	✓	✓		-	✓	-	<b>AHC</b>
Adjustable Vertical Coupler	✓	✓		-	✓	-	<b>AVC</b>
Blind End	✓	✓		✓	✓	-	<b>EC</b>
Drop Out	✓	✓		✓	-	-	<b>DO</b>
Divider	✓	✓		-	✓	3	<b>DI</b>
Raised Hold down Clip	✓	✓		-	✓	-	<b>HDL</b>
Hold down Clamp	✓	✓		-	-	-	<b>HDC</b>

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

## How to Order Straight Section and Fittings Cover

Base Metal	Finish	Design	Type																										
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Mild Steel</td> <td style="width: 20%; text-align: center;"><b>1</b></td> </tr> <tr> <td>Aluminium</td> <td style="text-align: center;"><b>2</b></td> </tr> <tr> <td>S/Steel 316L</td> <td style="text-align: center;"><b>3</b></td> </tr> <tr> <td>S/Steel 304</td> <td style="text-align: center;"><b>4</b></td> </tr> <tr> <td>Corten A Steel</td> <td style="text-align: center;"><b>5</b></td> </tr> </table>	Mild Steel	<b>1</b>	Aluminium	<b>2</b>	S/Steel 316L	<b>3</b>	S/Steel 304	<b>4</b>	Corten A Steel	<b>5</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Mild Steel</td> <td style="width: 20%; text-align: center;"><b>P</b></td> </tr> <tr> <td>HDGBF</td> <td></td> </tr> <tr> <td>HDGAF</td> <td style="text-align: center;"><b>G</b></td> </tr> <tr> <td>Stainless Steel</td> <td></td> </tr> <tr> <td>Aluminium</td> <td></td> </tr> <tr> <td>Normal Finish</td> <td style="text-align: center;"><b>M</b></td> </tr> </table>	Mild Steel	<b>P</b>	HDGBF		HDGAF	<b>G</b>	Stainless Steel		Aluminium		Normal Finish	<b>M</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Solid Cover</td> <td style="width: 30%; text-align: center;"><b>SF</b></td> </tr> </table>	Solid Cover	<b>SF</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Ladder Cover</td> <td style="width: 20%; text-align: center;"><b>U</b></td> </tr> </table>	Ladder Cover	<b>U</b>
Mild Steel	<b>1</b>																												
Aluminium	<b>2</b>																												
S/Steel 316L	<b>3</b>																												
S/Steel 304	<b>4</b>																												
Corten A Steel	<b>5</b>																												
Mild Steel	<b>P</b>																												
HDGBF																													
HDGAF	<b>G</b>																												
Stainless Steel																													
Aluminium																													
Normal Finish	<b>M</b>																												
Solid Cover	<b>SF</b>																												
Ladder Cover	<b>U</b>																												
<b>Elements</b>	<b>Width</b>	<b>Length</b>																											
Refer Page No : 49	100 to 1000	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">2440</td> <td style="width: 20%; text-align: center;"><b>2.44</b></td> </tr> <tr> <td>3000</td> <td style="text-align: center;"><b>3</b></td> </tr> </table>		2440	<b>2.44</b>	3000	<b>3</b>																						
2440	<b>2.44</b>																												
3000	<b>3</b>																												
<b>Radius of curvature</b>		<b>Epoxy finish if required</b>																											
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">300</td> <td style="width: 30%; text-align: center;"><b>3</b></td> </tr> <tr> <td>450</td> <td style="text-align: center;"><b>4.5</b></td> </tr> <tr> <td>600</td> <td style="text-align: center;"><b>6</b></td> </tr> </table>		300	<b>3</b>	450	<b>4.5</b>	600	<b>6</b>	E (EPAG)																					
300	<b>3</b>																												
450	<b>4.5</b>																												
600	<b>6</b>																												

### 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)**

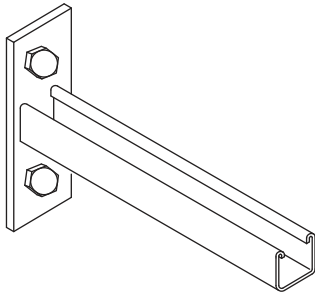
# Delta Cable Ladder Support System

## Cantilever arms

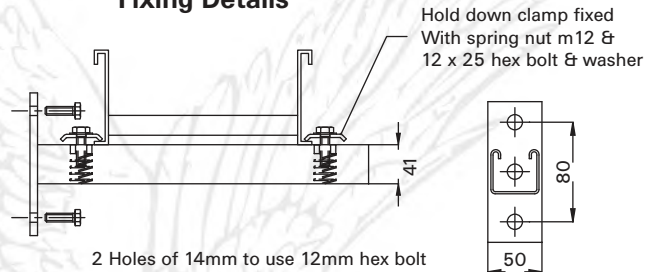
Note : While Ordering Cantilever arm for Ladder Add a Distance fo 150mm to the width of Ladder.  
E.g : For 300mm Ladder DEC 450. More support options are available in

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

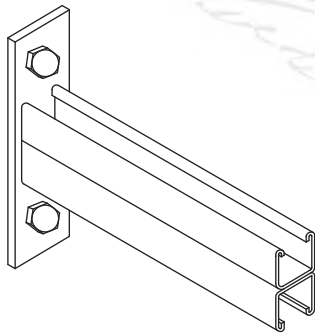
### Type DEC (Single Cantilever arm)



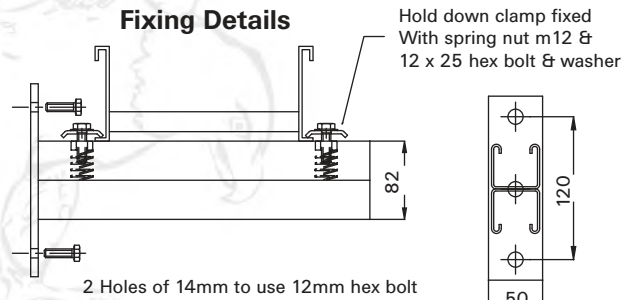
#### Fixing Details



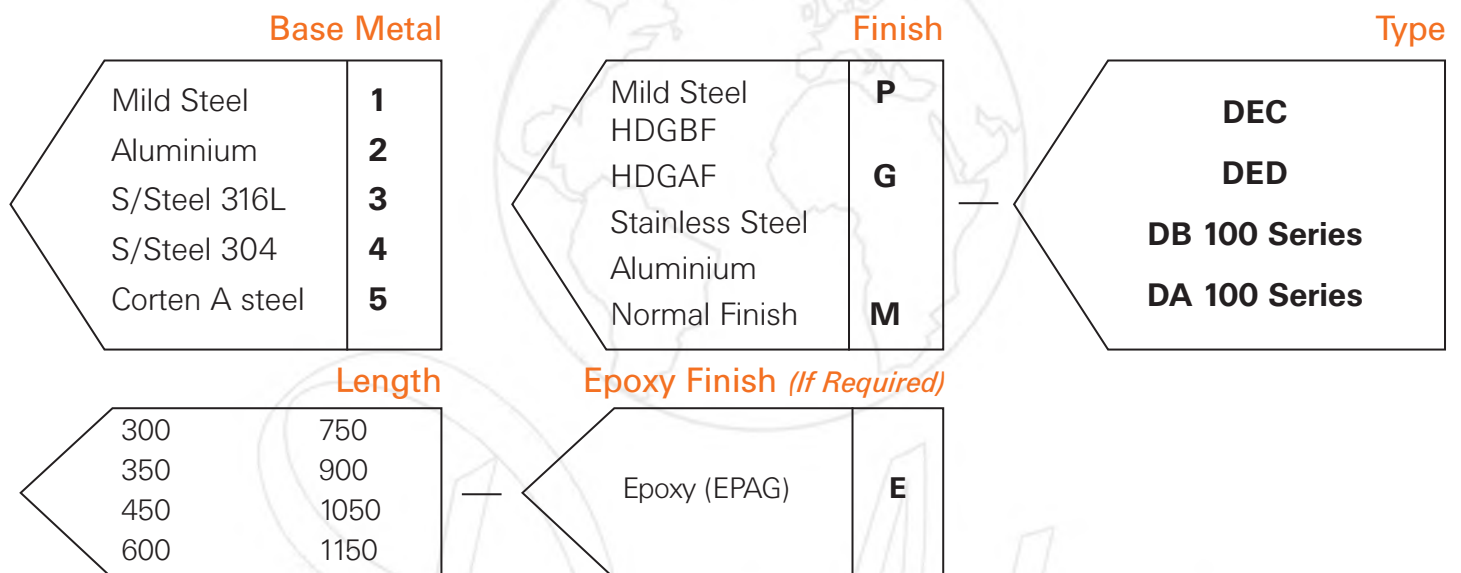
### Type DED (Double Cantilever arm)



#### Fixing Details



## How to order Support System for Cable Ladder



E.g. of Support System for 300mm Ladder

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

## How to order Earth Continuity Connector

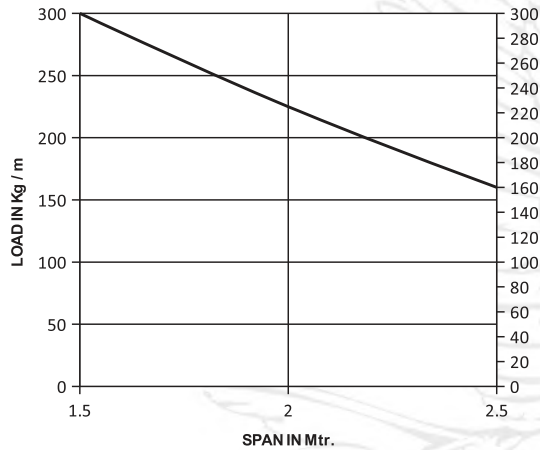
**ECC-200 (200 mm long)**

# Load Graphs for Cable Ladder



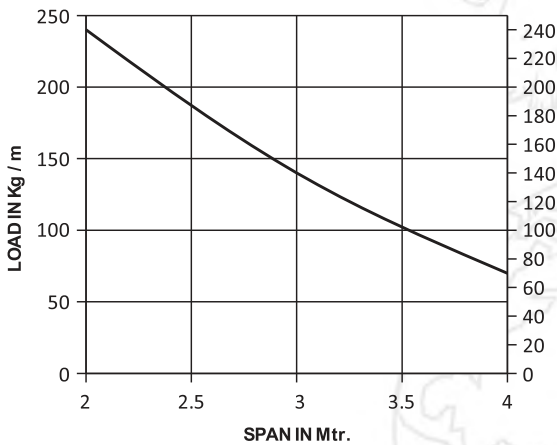
Results shown is for continuous, horizontally run, uniformly distributed load with a multiple span environment.

## C Type Cable Ladder



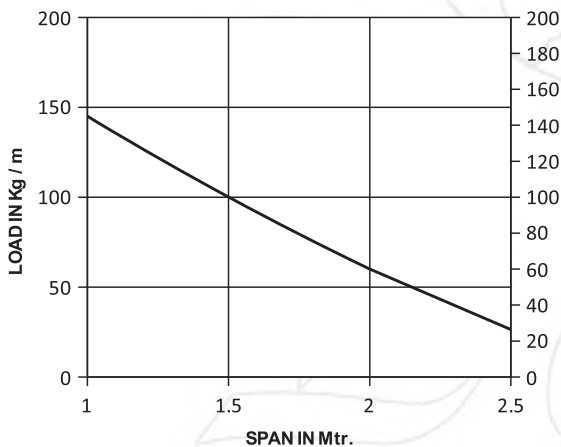
The loads above the graph line is unacceptable and below the line is **safe**.

## 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.

**Reaching beyond  
Expectations...**







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## **Delta Strut Systems**

---

*with Brackets  
As per BS 6946*

# Delta Strut Systems

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

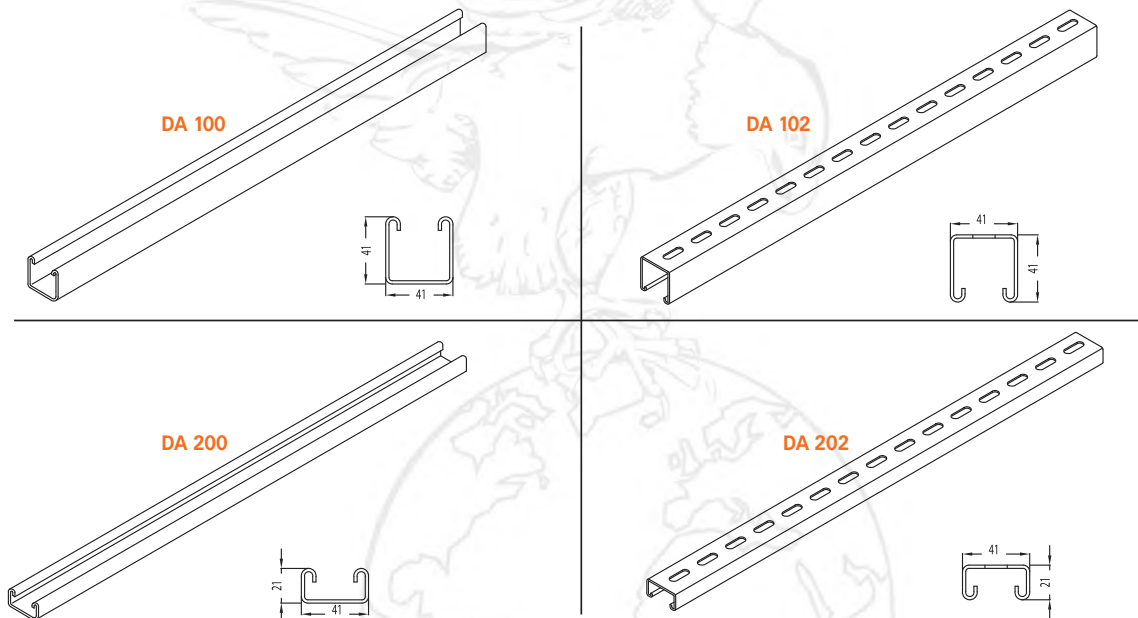
- Pregalvanized Steel or hot dip galvanized before fabrication (HDGBF) as per BS EN 10327
- Hot dip Galvanized after fabrication (HDGAF) as per BS EN 1461
- Epoxy polyester Powder coated to any RAL colour,
- Aluminium Strut Channel
- Stainless Steel Strut Channel to AISI 304 and AISI 316L

### 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	41x21	41x21	41x42	41x21	41x21	41x21	41X41	41X82	41X41	41X41	41X82	41X41
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
Type	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

Material &  
Finish

Slot / Plan  
(S) (P)

Product  
Code

Length  
in Meter

Epoxy Finish  
If Required

Eg. of Channel

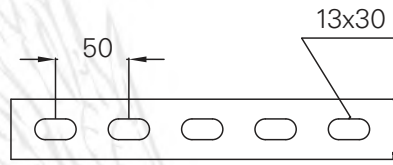
**1GP-DB100-3-E (If Required)**

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

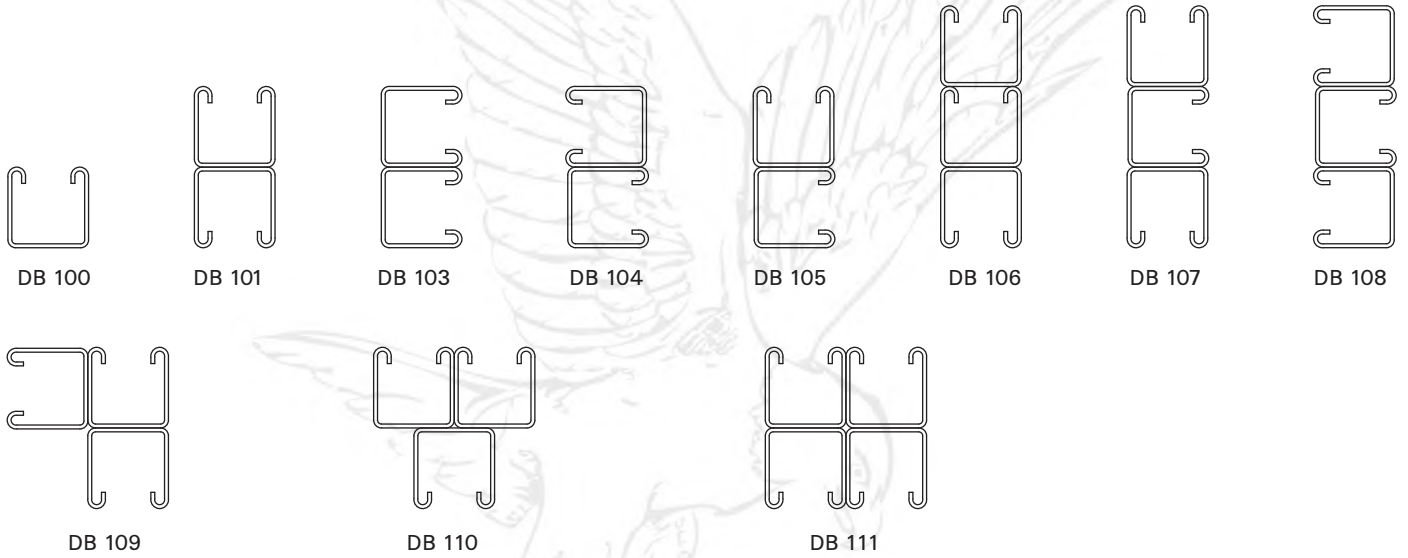
\* W.B.B. means welded back to back.

# Delta Strut Systems

## Slotting Pattern



## Combination Channels in DB 100 Series



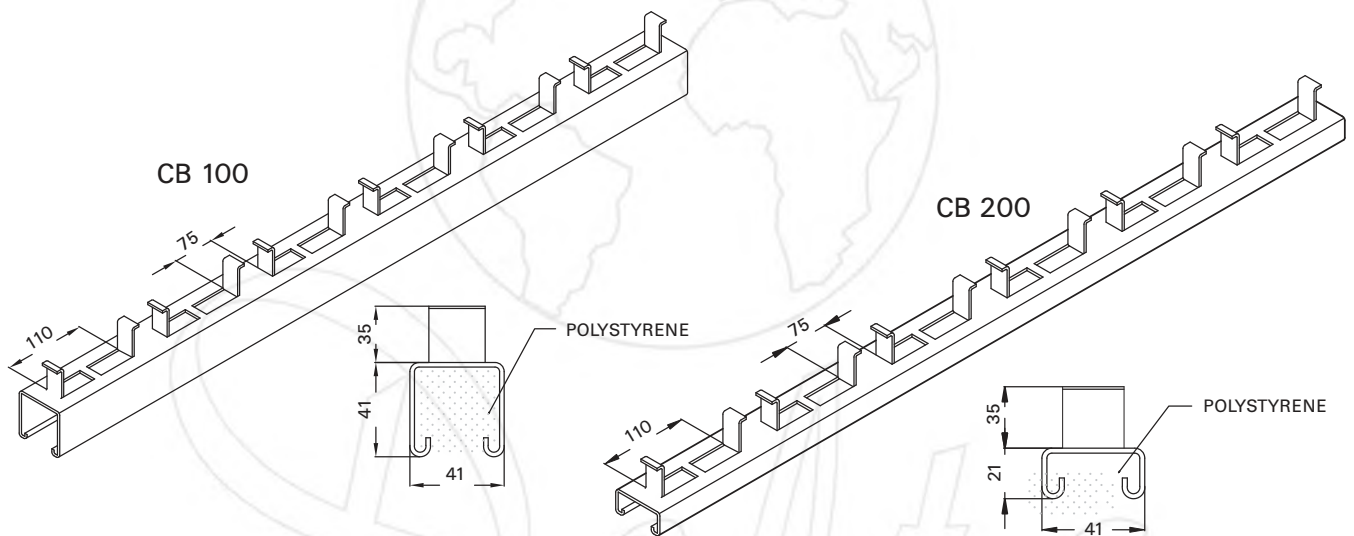
The above combination can be applied to DB 200 series also.

## 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.



Size	41x41	41x41	41x21	41x21
Thickness	2.5	2	2.5	2
Catalogue No :	<b>1GP-CA100-3</b>	<b>1GP-CB100-3</b>	<b>1GP-CA200-3</b>	<b>1GP-CB200-3</b>

# Delta Strut Systems

## Engineering Data

### Channels

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

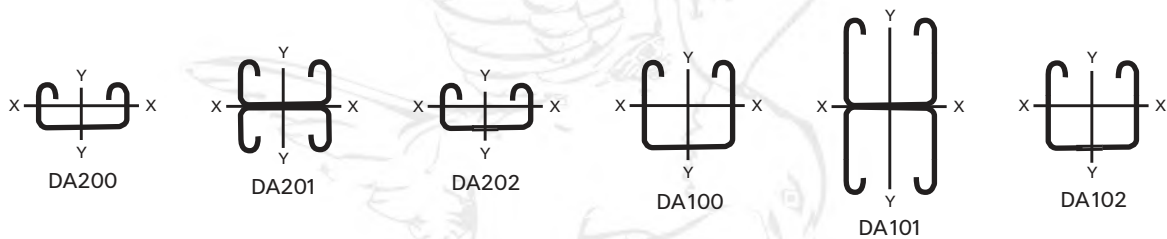
Light gauge channels are cold rolled from 1.5mm mild steel under DC series. However the profile will be the same.

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
<b>Axis x-x</b>						
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 <sup>4</sup> )	7.20	36.28	6.11	1.19	0.64	0.98
Section Modulus (cm <sup>3</sup> )	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
<b>Axis y-y</b>						
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

### 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 Systems

## Delta Strut Channel Load Capabilities

Delta Strut Channel Load Capabilities										Column Load	
Section	Distance Between Supports m	Laterally Unlock Condition				Fully Laterally Locked Condition				a Maximum AXIAL Column Load	
		Safe Maximum Loads		Maximum Deflection of Span/200		Safe Maximum Loads		Maximum Deflection of Span/200			
		Uniformly Distributed Across Span kgf	Point Load at Mid-Span kgf	UD Load kgf	Point Load at Mid-Span kgf	Uniformly Distributed Across Span kgf	Point Load at Mid-Span kgf	UD Load kgf	Point Load at Mid-Span kgf	Column Height m	kgf
DA100	0.60	747	374	747	374	747	374	747	374	0.60	5982
DA200		226	113	226	113	228	114	228	114		2879
DA101		<sup>b</sup> 800	<sup>b</sup> 800	<sup>b</sup> 800	<sup>b</sup> 800	<sup>b</sup> 1017	973	1017	973		11041
DA201		603	302	603	302	608	304	608	304		7308
DA100	0.80	543	271	543	271	560	280	560	280	0.80	5640
DA200		164	82	134	82	170	85	134	84		1867
DA101		<sup>b</sup> 800	708	<sup>b</sup> 800	708	1016	729	1016	729		10621
DA201		437	218	437	218	455	227	455	227		6348
DA100	1.00	419	210	419	210	447	223	447	223	1.00	5102
DA200		126	63	85	53	136	68	85	53		1253
DA101		<sup>b</sup> 800	548	<sup>b</sup> 800	548	<sup>b</sup> 1015	582	1015	582		10035
DA201		337	168	337	168	363	181	363	181		5010
DA100	1.20	336	168	336	168	371	186	371	186	1.20	4346
DA200		101	50	58	36	113	56	58	36		891
DA101		<sup>b</sup> 800	440	<sup>b</sup> 800	440	969	484	969	484		9193
DA201		270	135	270	135	301	151	277	151		3803
DA100	1.40	275	138	271	138	317	159	271	159	1.40	3549
DA200		83	41	42	26	96	48	42	26		664
DA101		723	361	723	361	829	414	829	414		8088
DA201		221	111	202	111	257	128	202	126		2914
DA100	1.60	230	115	206	115	277	139	206	129	1.60	2872
DA200		69	35	31	19	83	42	31	19		513
DA101		604	302	604	302	723	362	723	362		6889
DA201		185	93	153	93	224	112	153	95		2289
DA100	1.80	194	97	162	97	245	123	162	101	1.80	2345
DA200		59	29	23	15	73	37	23	15		408
DA101		510	255	510	255	641	321	641	321		5792
DA201		157	79	119	74	198	99	119	74		1838
DA100	2.00	165	83	130	81	220	110	130	81	2.00	1938
DA200		51	25	18	11	66	33	18	11		a332
DA101		434	217	434	217	575	288	575	288		a4874
DA201		135	67	94	59	177	88	94	59		1506
DA100	2.20	142	71	106	66	199	100	106	66	2.20	1625
DA200		44	22	14	9	59	29	14	9		a276
DA101		371	186	371	186	521	261	521	261		a4131
DA201		116	58	76	47	159	80	76	47		1255
DA100	2.40	123	61	87	55	182	91	87	55	2.40	1381
DA200		38	19	11	7	53	27	11	7		a233
DA101		319	160	319	160	476	238	460	238		3534
DA201		101	50	62	39	145	72	62	39		1062
DA100	2.60	107	53	73	46	167	83	73	46	2.60	1186
DA200		33	17	8	5	49	24	8	5		a199
DA101		276	138	276	138	436	219	389	219		3051
DA201		88	44	51	32	133	66	51	32		910
DA100	2.80	94	47	61	38	154	77	61	38	2.80	1030
DA200		29	15	6	4	45	22	6	4		a172
DA101		240	120	240	120	405	202	333	202		2658
DA201		77	39	42	36	122	61	42	26		a788
DA100	3.00	82	41	52	33	143	71	52	33	3.00	902
DA200		25	13	4	3	41	21	4	3		a150
DA101		209	105	209	105	376	188	286	179		2335
DA201		68	34	34	21	113	56	34	21		a689

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.

# Delta Strut Systems

## 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

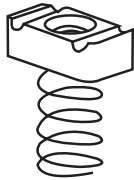
M10 : 6.0 kN

Torque Tightened to M12 : 7kgf.m

M10 : 5.5 kgf.m

Use M 12 Channel Nut for Maximum Capacity

## Long Spring Nut



DEL 101

## Short Spring Nut



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.

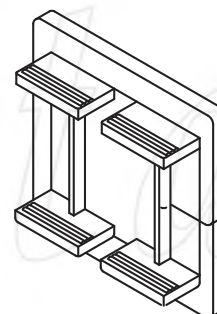
## Channel Cover

Catalogue No : DA100-SF.

## Channel End Cap

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

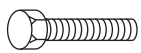
**Catalogue No. DA100-EC (41 x 41mm)**  
**DB200-EC (41 x 21mm)**



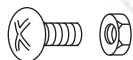
# Delta Strut Systems

## Standard Fixing and Fastenings

### Fastenings



Hexagon Head Bolts



Roofing Bolts and Nuts



Spring Washer



Hexagon Nuts



Flat Washers



Threaded Rods

### Hexagonal Head Bolts

#### Electro Plated Zinc

M6 x 16	pack 100
M6 x 20	pack 100
M6 x 25	pack 100
M8 x 16	pack 100
M8 x 20	pack 100
M8 x 25	pack 100
M8 x 30	pack 100
M8 x 35	pack 100
M8 x 40	pack 100
M10 x 20	pack 100
M10 x 25	pack 100
M10 x 30	pack 100
M10 x 35	pack 100
M10 x 40	pack 100
M10 x 50	pack 100
M12 x 20	pack 100
M12 x 25	pack 100
M12 x 30	pack 100
M12 x 35	pack 100
M12 x 40	pack 100
M12 x 50	pack 100

#### Hot Dip Galvanized

M6 x 12	pack 100
M6 x 16	pack 100
M6 x 20	pack 100
M6 x 35	pack 100

#### Stainless Steel (A4)

M6 x 20	pack 100
M6 x 25	pack 100
M8 x 25	pack 100
M8 x 35	pack 100
M8 x 40	pack 100
M10 x 16	pack 100
M10 x 25	pack 100
M10 x 40	pack 100
M12 x 25	pack 100

#### Stainless Steel (A2)

M6 x 20	pack 100
M6 x 25	pack 100
M8 x 25	pack 100
M8 x 35	pack 100
M8 x 40	pack 100
M10 x 16	pack 100
M10 x 25	pack 100
M10 x 40	pack 100
M12 x 25	pack 100

### Hexagonal Nuts

#### Electro Plated Zinc

M6	pack 500	HN06EG
M8	pack 500	HN08EG
M10	pack 200	HN10EG
M12	pack 200	HN12EG

#### Hot Dip Galvanized

M6 pack 500

#### Stainless Steel (A4)

M6	pack 100	HN06A4
M8	pack 100	HN08A4
M10	pack 100	HN10A4
M12	pack 100	HN12A4

#### Stainless Steel (A2)

M6	pack 100	HN06A2
M8	pack 100	HN08A2
M10	pack 100	HN10A2
M12	pack 100	HN12A2

#### Catalogue No.

HN06HG

### Roofing Bolts

#### Electroplated Zinc

M6 x 12	pack 200	RB0612EG
M6 x 16	pack 200	RB0616EG
M6 x 20	pack 200	RB0620EG
M6 x 25	pack 200	RB0625EG
M6 x 30	pack 100	RB0630EG
M6 x 40	pack 100	RB0640EG
M6 x 50	pack 100	RB0650EG

#### Hot Dip Galvanized

M6 x 12	pack 100	RB0612HG
M6 x 16	pack 100	RB0616HG

#### Stainless Steel (A4)

M6 x 12	pack 100	RB0612A4
M6 x 16	pack 100	RB0616A4
M6 x 20	pack 100	RB0620A4

#### Stainless Steel (A2)

M6 x 12	pack 100	RB0612A2
M6 x 16	pack 100	RB0616A2
M6 x 20	pack 100	RB0620A2

### Flat Washers

#### Electro Plated Zinc

M6	pack 500	FW06EG
M8	pack 500	FW08EG
M10	pack 500	FW10EG
M12	pack 200	FW12EG

#### Stainless Steel (A2)

M6	pack 100	FW06A2
M8	pack 100	FW08A2
M10	pack 100	FW10A2
M12	pack 100	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	TR08EG
M10 x 2m	TR10EG
M12 x 2m	TR12EG

#### Stainless Steel (A4)

M6 x 2m	TR06A4
M8 x 2m	TR08A4
M10 x 2m	TR10A4
M12 x 2m	TR12A4

#### Stainless Steel (A2)

M6 x 2m	TR06A2
M8 x 2m	TR08A2
M10 x 2m	TR10A2
M12 x 2m	TR12A2

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

## Anchor Bolts

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.



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## Delta Strut Brackets

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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

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### Material Properties

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Minimum Yield Stress : 170 N/mm<sup>2</sup>

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### Maximum Loads

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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.

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### Materials and Finishes Available

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- 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

---

Material &  
Finish

Product  
Code

*Eg. of Bracket*

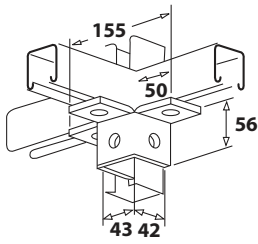
**1G-DEL-207**

Delta

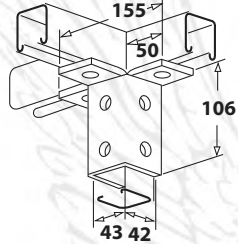
# Delta Strut Brackets

## Wing Shape Fittings (For 41 mm Width Series Channel)

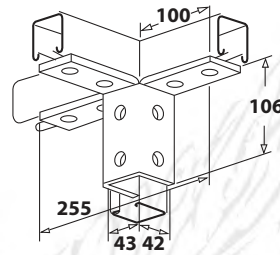
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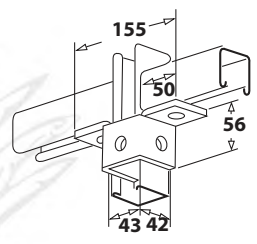
DEL 114



DEL 115

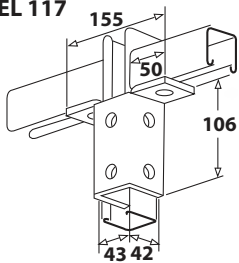


DEL 116

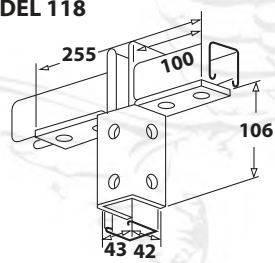


## Wing Shape Fittings (For 41 mm Width Series Channel)

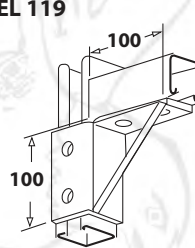
DEL 117



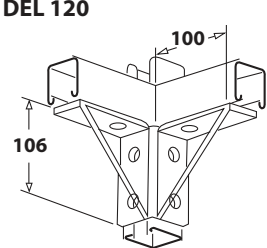
DEL 118



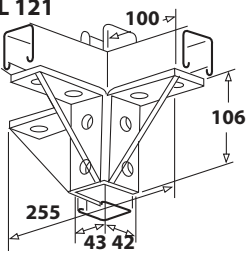
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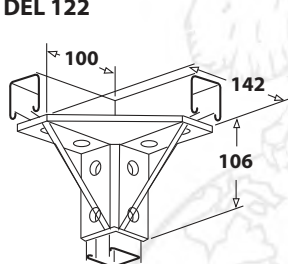
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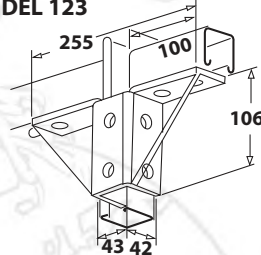
DEL 121



DEL 122

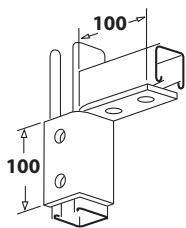


DEL 123

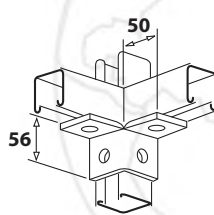


CONTACT SALES DESK FOR SPECIAL DESIGN

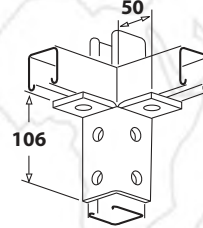
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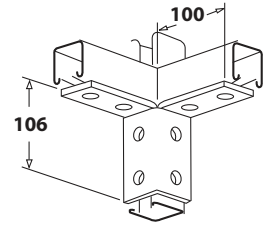
DEL 125



DEL 126

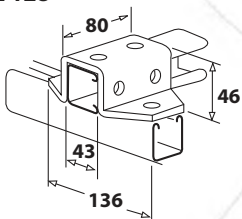


DEL 127

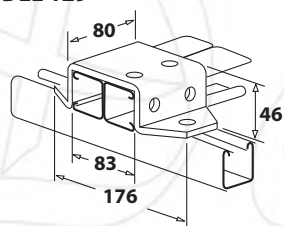


## "U" And Wing Shape Fittings (For 41 mm Width Series Channel)

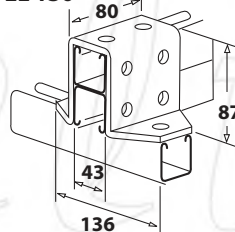
DEL 128



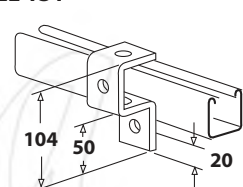
DEL 129



DEL 130



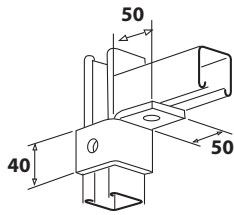
DEL 131



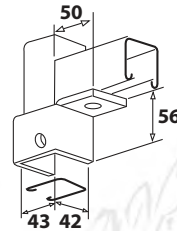
# Delta Strut Brackets

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

DEL 132



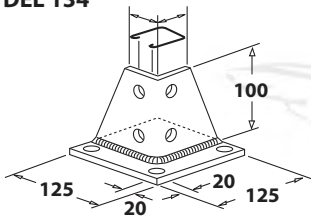
DEL 133



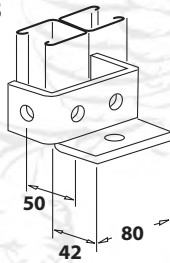
CONTACT SALES DESK FOR SPECIAL DESIGN

## Post Bases (For 41 mm Width Series Channel)

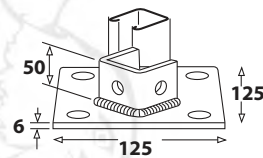
DEL 134



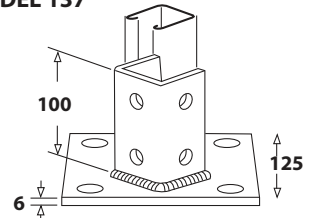
DEL 135



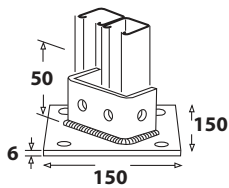
DEL 136



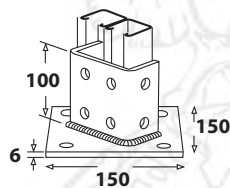
DEL 137



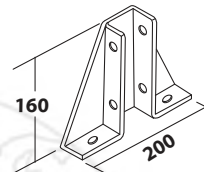
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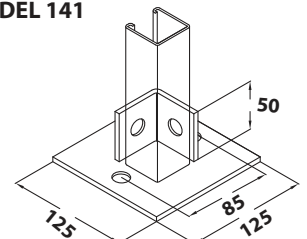
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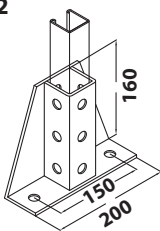
DEL 140



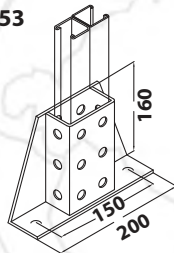
DEL 141



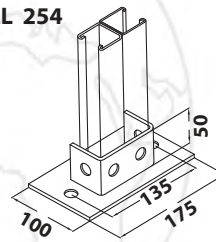
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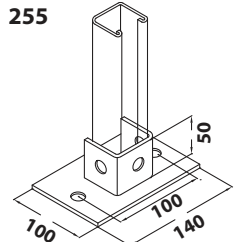
DEL 253



DEL 254

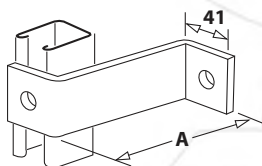


DEL 255

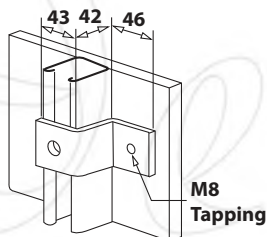


## "Z" Shape Fittings (For 41 mm Width Series Channel)

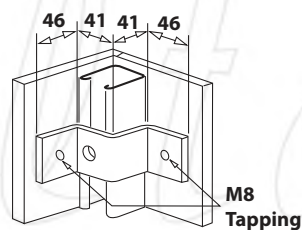
DEL 142



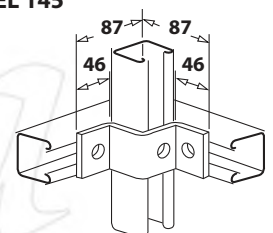
DEL 143



DEL 144

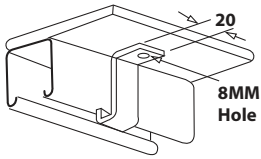


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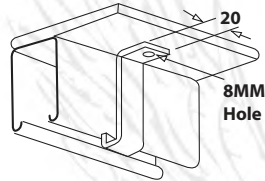


# Delta Strut Brackets

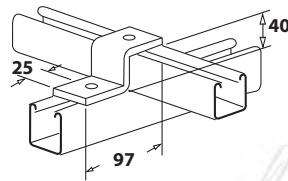
DEL 146



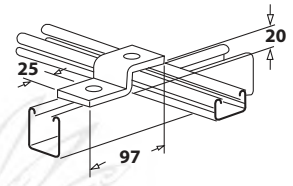
DEL 147



DEL 148

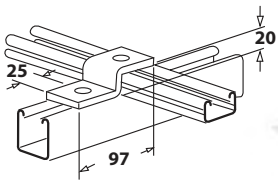


DEL 149

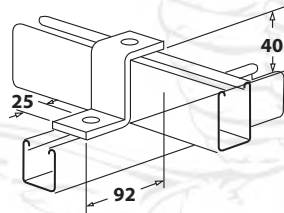


## "Z" & "U" And Wing Shape Fittings (For 41 mm Width Series Channel)

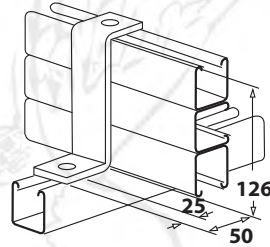
DEL 150



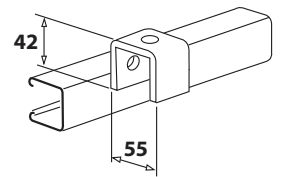
DEL 151



DEL 152

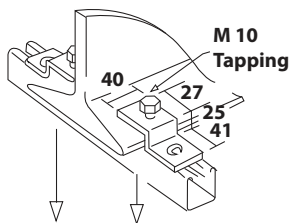


DEL 153

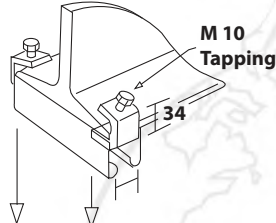


## Beam Clamps

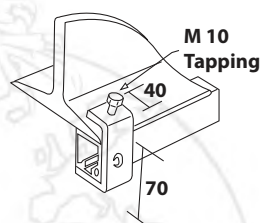
DEL 154



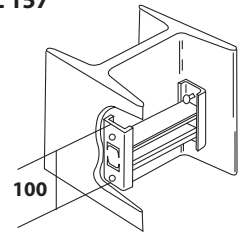
DEL 155



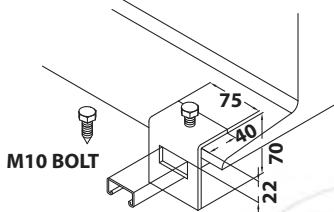
DEL 156



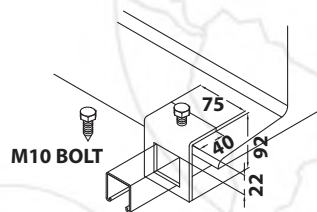
DEL 157



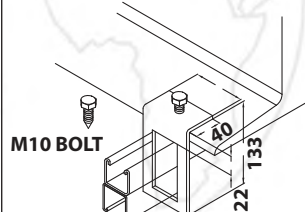
DEL 246



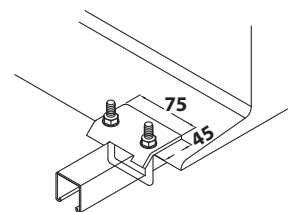
DEL 247



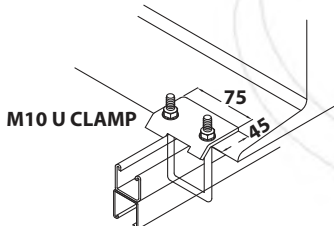
DEL 248



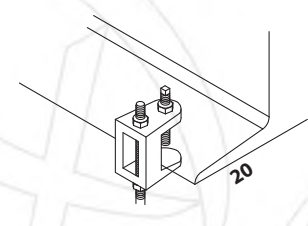
DEL 249



DEL 250



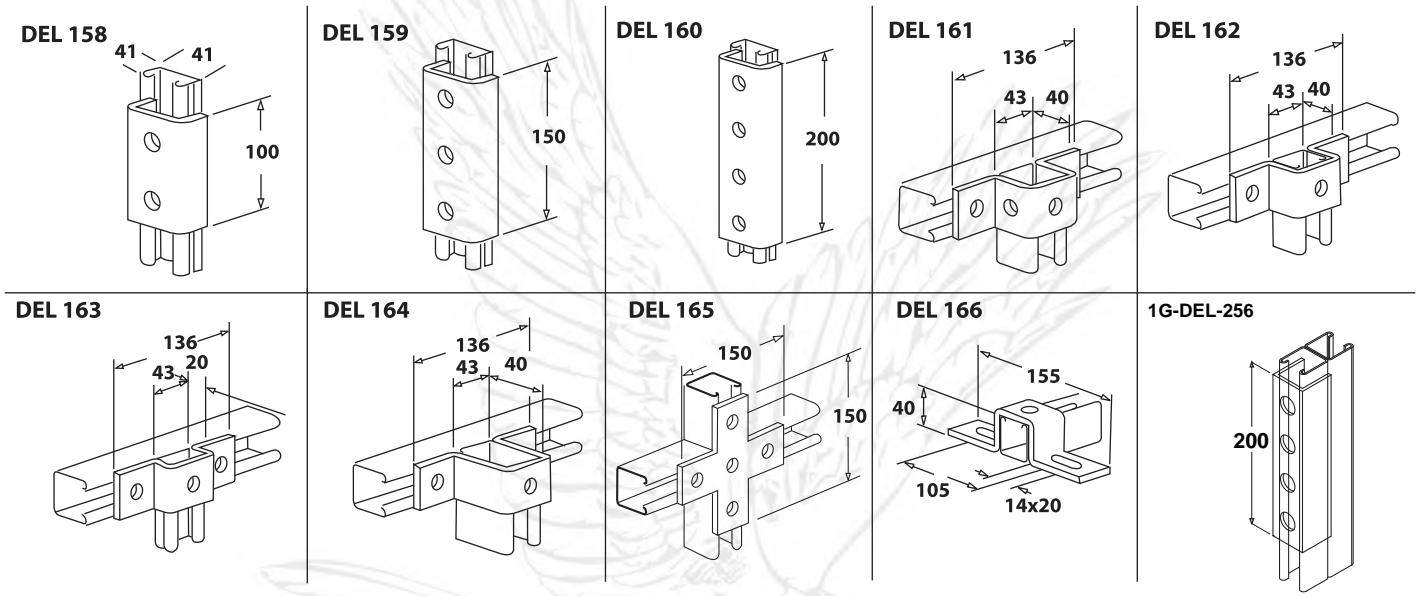
DEL 251



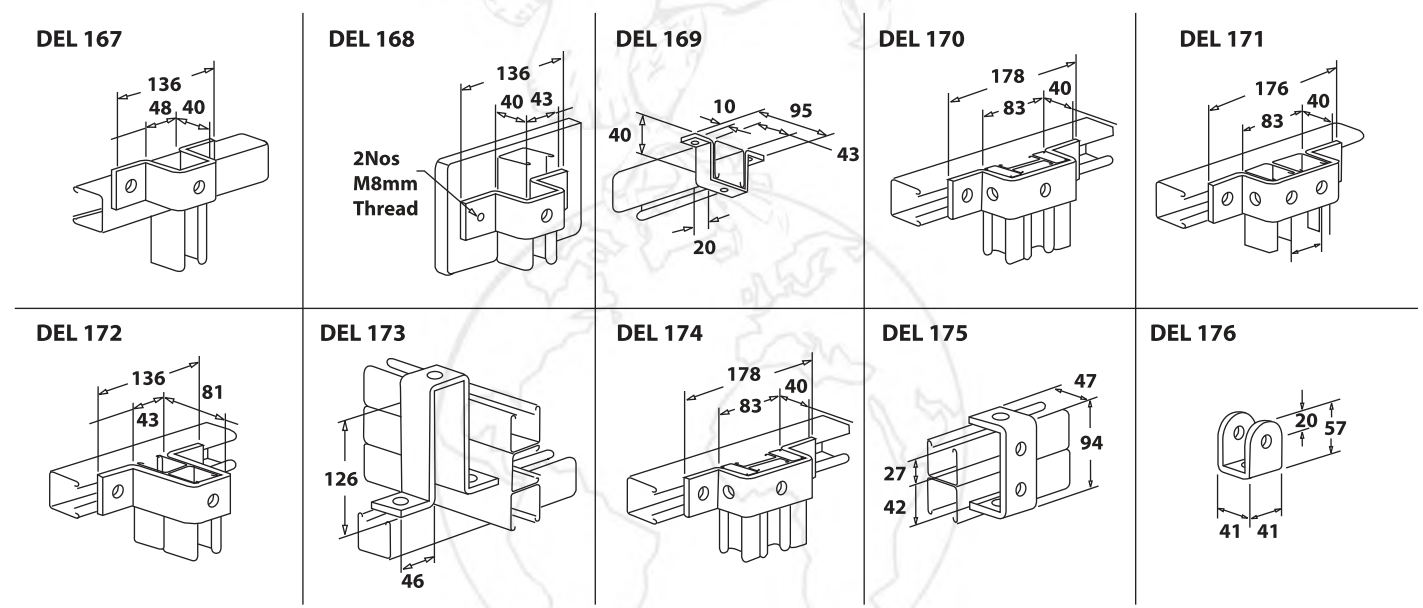
For beam clamps order Fasteners (Cone pointed Hexagonal Bolts, U Clamp) Separately.

# Delta Strut Brackets

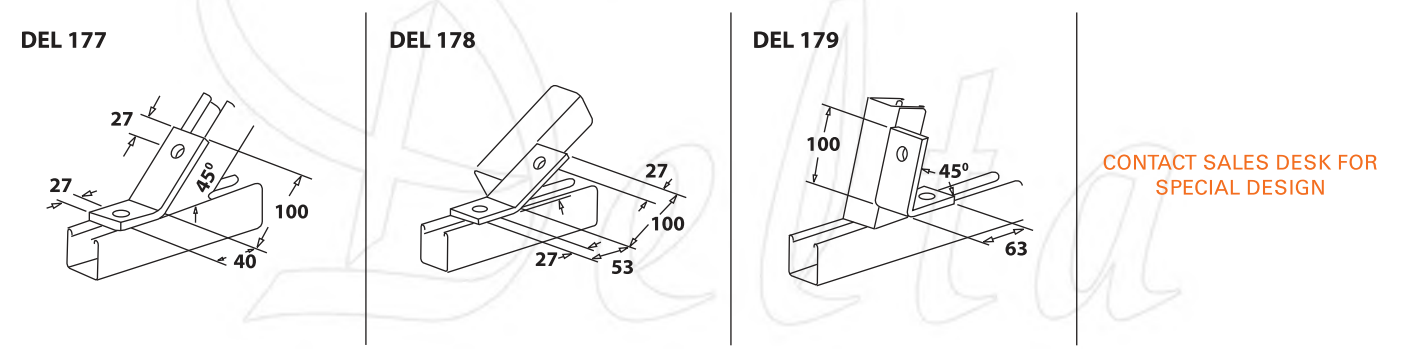
## "U" Shape Fittings (For 41 mm Width Series Channel)



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



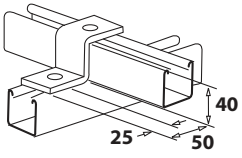
## Angular Fittings (For 41 mm Width Series Channel)



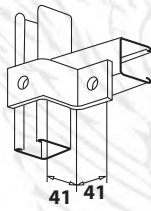
# Delta Strut Brackets

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

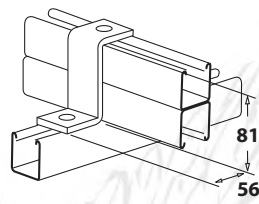
DEL 180



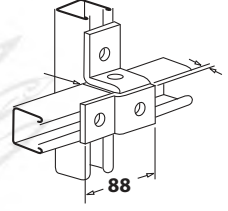
DEL 181



DEL 182

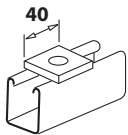


DEL 183

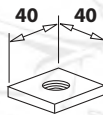


## Flat Shape Fittings

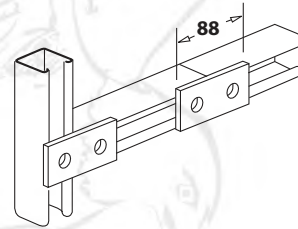
DEL 184



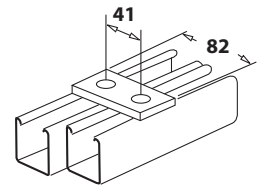
DEL 185



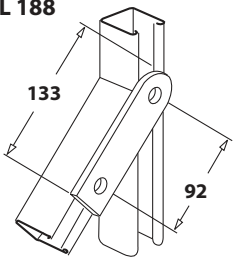
DEL 186



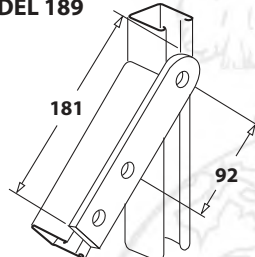
DEL 187



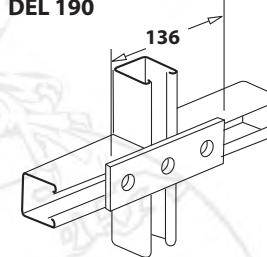
DEL 188



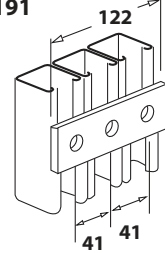
DEL 189



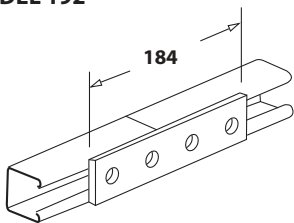
DEL 190



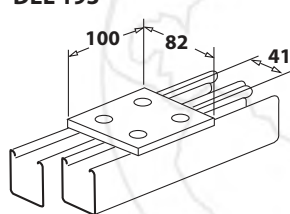
DEL 191



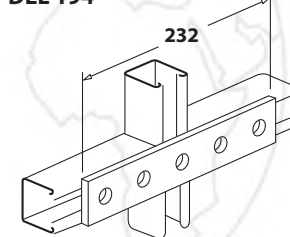
DEL 192



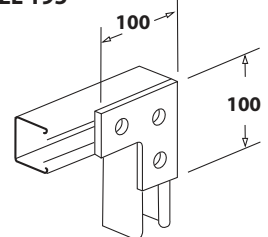
DEL 193



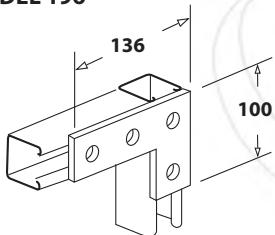
DEL 194



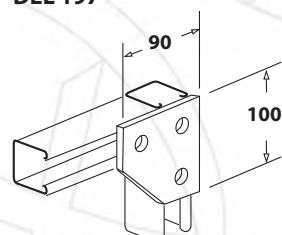
DEL 195



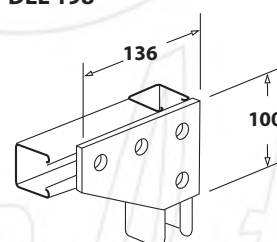
DEL 196



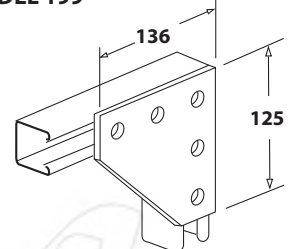
DEL 197



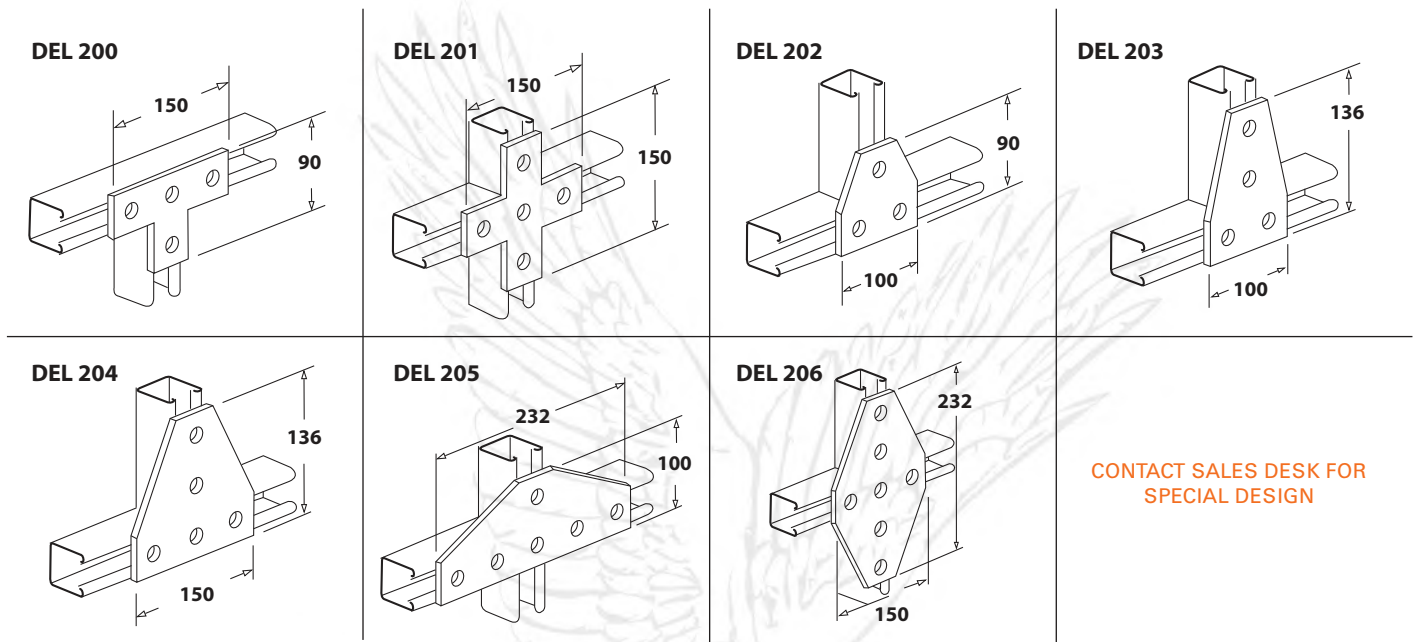
DEL 198



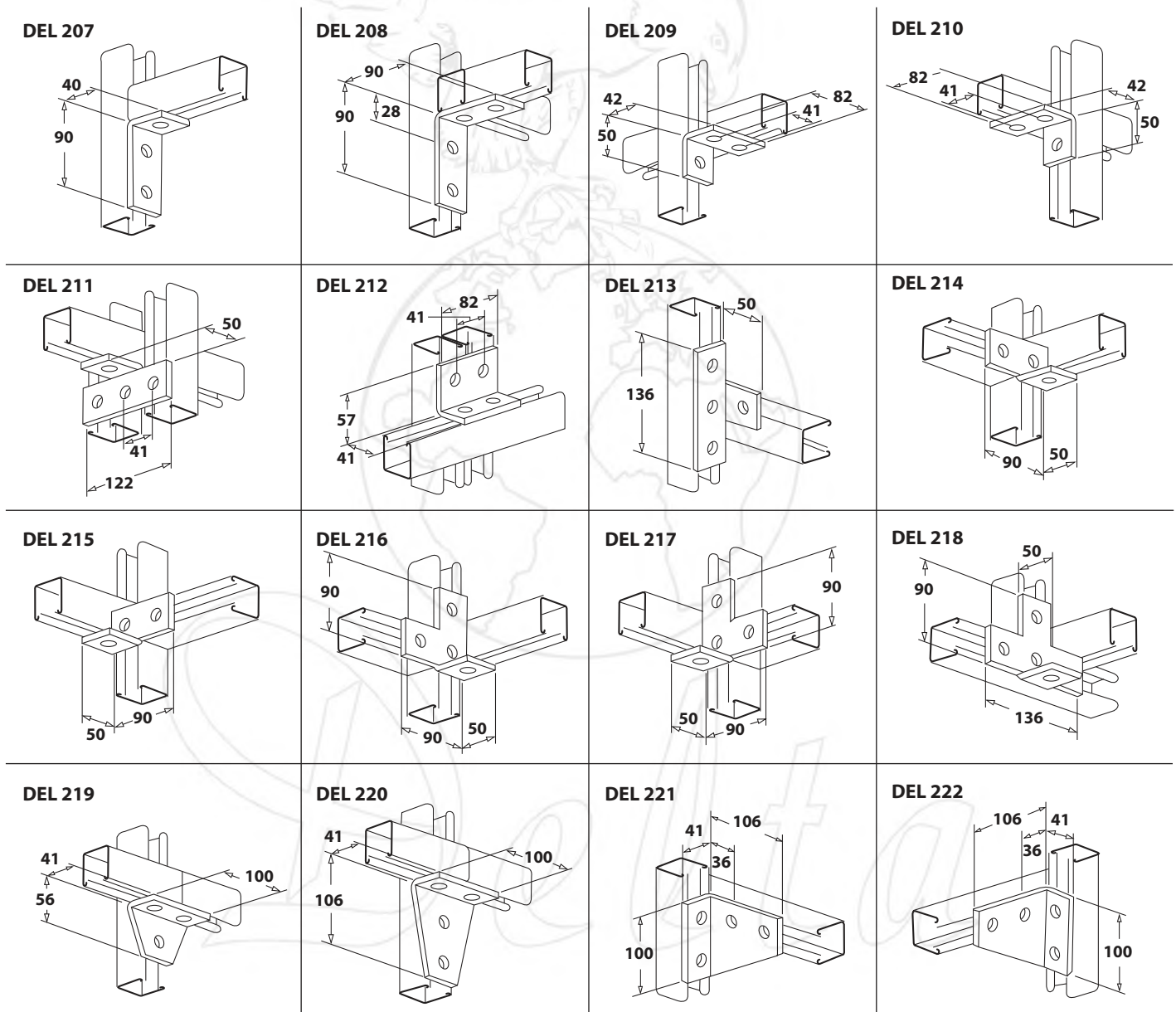
DEL 199



# Delta Strut Brackets



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



# Delta Strut Brackets

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

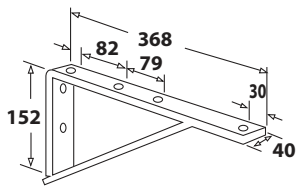
<p><b>DEL 223</b></p>	<p><b>DEL 224</b></p>	<p><b>DEL 225</b></p>	<p><b>DEL 226</b></p>
<p><b>DEL 227</b></p>	<p><b>DEL 228</b></p>	<p><b>DEL 229</b></p>	<p><b>DEL 230</b></p>
<p><b>DEL 231</b></p>	<p><b>DEL 232</b></p>	<p><b>DEL 233</b></p>	<p><b>DEL 234</b></p>
<p><b>DEL 235</b></p>	<p><b>DEL 236</b></p>	<p><b>DEL 237</b></p>	<p><b>DEL 238</b></p>
<p><b>DEL 239</b></p>	<p><b>DEL 240</b></p>	<p><b>DEL 241</b></p>	<p><b>DEL 242</b></p>
<p><b>DEL 243</b></p>	<p><b>DEL 244</b></p>	<p><b>DEL 245</b></p>	<p>CONTACT SALES DESK FOR SPECIAL DESIGN</p>



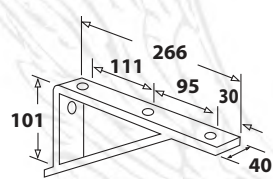
# Delta Strut Brackets

## Flat Brackets

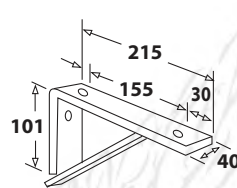
DB 204



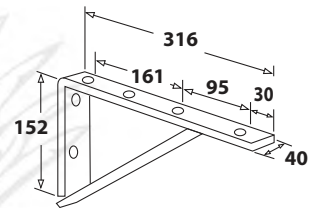
DB 205



DB 206



DB 207

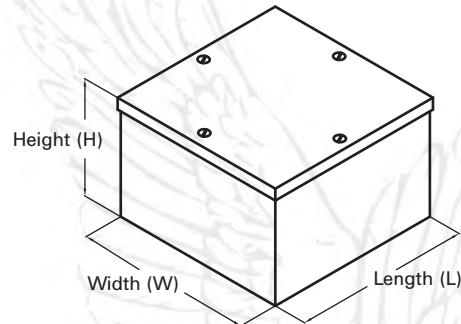


# Delta Pull Boxes

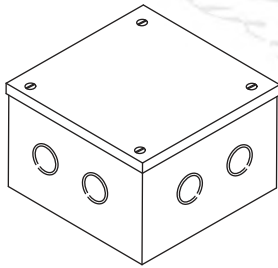
## Screw Cover Pull Box (Adaptable Boxes)

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.

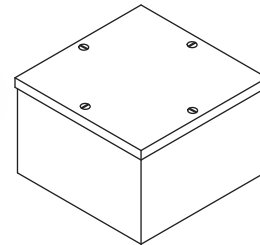


### SCP - A



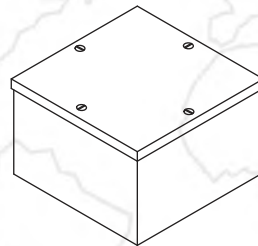
### SCP - B

Size	Thickness	No. Of Screws for Top Lid
100x100x50	1.0	2
100x100x100	1.0	2
150x100x50	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.**

# Conversion Factors

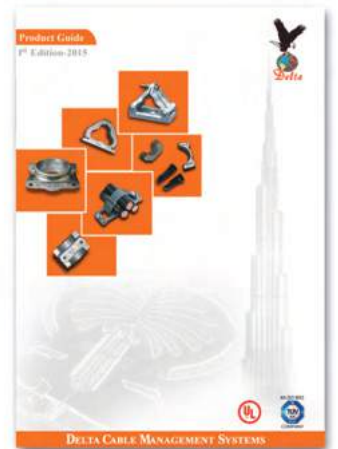
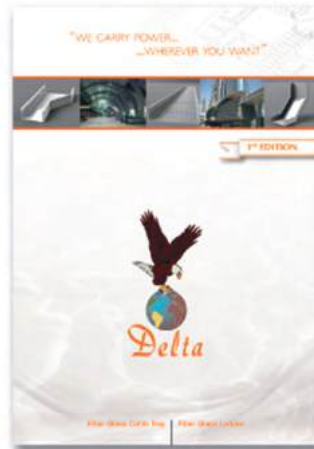
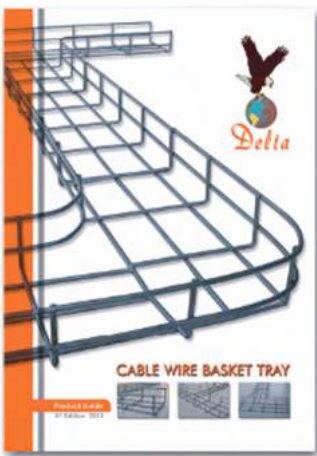
To Convert From	To	Multiply By	To Convert From	To	Multiply By
<b>Length</b>					
Inch (in)	Millimeter (mm)	25.400 000	Millimeter (mm)	Inch (in)	0.039 370
Foot (ft)	Meter (m)	0.304 800	Meter (m)	Foot (ft)	3.280 840
Yard (yd)	Meter (m)	0.9 14 400	Meter (m)	Yard (yd)	1.093 613
Mile (U.S. Statute) (mi)	Kilometer (kiss)	1.609 347	kilometer (km)	Mile (U.S. Statute) (mi)	0.621 370
<b>Area</b>					
Square Inch (in <sup>2</sup> )	Square Millimeter (mm <sup>2</sup> )	645.16	Square Millimeter (mm <sup>2</sup> )	Square Inch (in <sup>2</sup> )	0.001550
Square Foot (ft <sup>2</sup> )	Square Meter (m <sup>2</sup> )	0.092 903	Square Meter (m <sup>2</sup> )	Square foot (ft <sup>2</sup> )	10.763 915
Square Yard (yd <sup>2</sup> )	Square Meter (rn)	0.836 127	Square Meter (m <sup>2</sup> )	Square Yard (yd <sup>2</sup> )	1.195 991
Square Mile (m <sup>2</sup> ) (U.S. Statute)	Square Kilometer (1cm <sup>2</sup> )	2.589 998	Square Kilometer (km <sup>2</sup> )	Square Mile (mi <sup>2</sup> ) (U. S. Statute)	0.386 101
Acre	Square Meter (m <sup>2</sup> )	4046.873	Square Meter (rn <sup>2</sup> )	Acre	0.000 247
Acre	Hectare	0.404 687	Hectare	Acre	2.471 046
<b>Volume</b>					
Cubic Inch (in <sup>3</sup> )	Cubic Millimeter (mm <sup>3</sup> )	16387.06	Cubic Millimeter (mm <sup>3</sup> )	Cubic Inch (in <sup>3</sup> )	0.000061
Cubic Foot (ft <sup>3</sup> )	Cubic Meter (m <sup>3</sup> )	0.028 317	Cubic Meter (m <sup>3</sup> )	Cubic Foot (ft <sup>3</sup> )	35.3 14 662
Cubic Yard (yd <sup>3</sup> )	Cubic Meter (m <sup>3</sup> )	0.764555	Cubic Meter (m <sup>3</sup> )	Cubic Meter (m <sup>3</sup> )	1.307 950
Gallon (U.S. Liquid) (gal)	Litre(l)	3.785 412	Litre (l)	Gallon (U.S. Liquid) (gal)	0.264 172
Quart (.S. Liquid) (QT)	Litre (l)	0.946 353	Litre (l)	Quart (U.S. Liquid) (qt)	1.056 668
<b>Mass</b>					
Ounce (Avoirdupois) (oz)	Gram (g)	28.349 520	Gram (g)	Ounce (Avoirdupois) (oz)	0.035 274
Pound (Avoirdupois) (lb)	Kilogram (kg)	0.453 592	Kilogram (kg)	Pound (Avoirdupois) (b)	2.204624
Short Ton	Kilogram (kg)	907.185	Kilogram (kg)	Short Ton	0.00110
<b>Force</b>					
Ounce -Force	Newton (N)	0.278 014	Newton (N)	Ounce -Force	3.596 941
Pound-Force (lbf)	Newton (N)	4.448 222	Newton (N)	Pound-Force (lbf)	0.224 809
<b>Bending Moment</b>					
Pound-Force-Inch (lbf-in)	Newton-Meter (N-rn)	0.112985	Newton-Meter (N-rn)	Pound-Force-Inch (lbf-in)	8.850 735
Pound-Force-Foot (lbf-in)	Newton-Meter (N-rn)	1.355 818	Newton-Meter (N-rn)	Pound-Force-Foot (lbf-in)	0.737 562
<b>Pressure, Stress</b>					
Pound-Force per Square Inch (lbf/in <sup>2</sup> )	Kilo pascal (kPa)	6.894 757	Kilo pascal (kPa)	Pound-Force per Square Inch (lbf/in <sup>2</sup> )	0.145 038
Foot of Water (39.2F)	Kilo pascal (kPa)	2.988 980	Kilo pascal (kPa)	Foot of Water (39.2F)	0.334 562
Inch of Mercury (32 F)	Kilo pascal (kPa)	3.386 380	Kilo pascal (kPa)	Inch of Mercury (32 F)	0.295 301
<b>Energy, Work, Heat</b>					
Foot-Pound-Force (ft-lbf)	Joule (J)	1.355 818	Joule (J)	Foot-Pound-Force (ft-lbf)	0.737 562
British Thermal Unit (Btu)	Joule (J)	1055.056	Joule (J)	British Thermal Unit (Btu)	0.000948
Calorie (cal)	Joule (J)	4.186 800	Joule (J)	Calorie (cal)	0.238 846
Kilowatt Hour (kW-h)	Joule (J)	3600000	Joule (3)	kilowatt Hour (kw-h)	2.78-7
<b>Power</b>					
Foot-Pound-Force /Second (tool box/s)	watt(W)	1.355 818	Watt(W)	Foot-Pound-Force /Second (ft0lbs/s)	0.737 562
British Thermal unit /Hour (Btu/h)	Watt (W)	0.293 071	Watt (W)	British Thermal unit fHour (Btu/h)	3.4 12 142
Horsepower (550 Ft. Lbf/s) (hp)	Kilowatt (kW)	0.745700	Kilowatt (kW)	Horsepower (550 Fi. Lbf/s) (hp)	1.341 022
<b>Angle</b>					
degree	Radian (rad)	0.0 17 453	radian (rad)	Degree	57.295 788
<b>Temperature</b>					
Degree Fahrenheit (F)	Degree Celsius (C)	(F0-32)1 .8	Degree Celsius (C)	Degree Farenheit (F)	1.8xCO+32

Notes



Delta





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