



GROUP OF COMPANIES

DANA WATER HEATERS & COOLERS FACTORY L.L.C., DUBAI, U.A.E.
(Glass Lined Water Heaters, Coolers and Chillers, Pool Heat Pumps)

DANA WATER HEATER AND COOLERS FACTORY L.L.C. (BRANCH)
(Cable Management System, Plate and Coil Service Centre, Rollformed Products)

DANA STEEL PROCESSING INDUSTRIES L.L.C., UAE
(Cable Management System, Profiles and Claddings, Dry Wall Partioning Systems)

SEVEN EAGLES INTERNATIONAL TRADING L.L.C. DUBAI, U.A.E.
(Flat and Long Steel Products Steel Coils, Plates, Sheets, Pipes)

DANA STEELS PVT. LTD., BHIWADI, RAJASTHAN, INDIA
(Pipe Mill, Black and Galvanized ERW Pipes, Scaffolding and Formwork Systems)

APIKA ENTERPRISES EXPORT HOUSE
Jaipur, INDIA

DANA HOSPITAL PRIVATE LIMITED
Jaipur, INDIA

DELTA STEEL ENGINEERING & ELECTRICAL APPLIANCES FACTORY,
Tripoli, LIBYA



DANA GROUP OF COMPANIES

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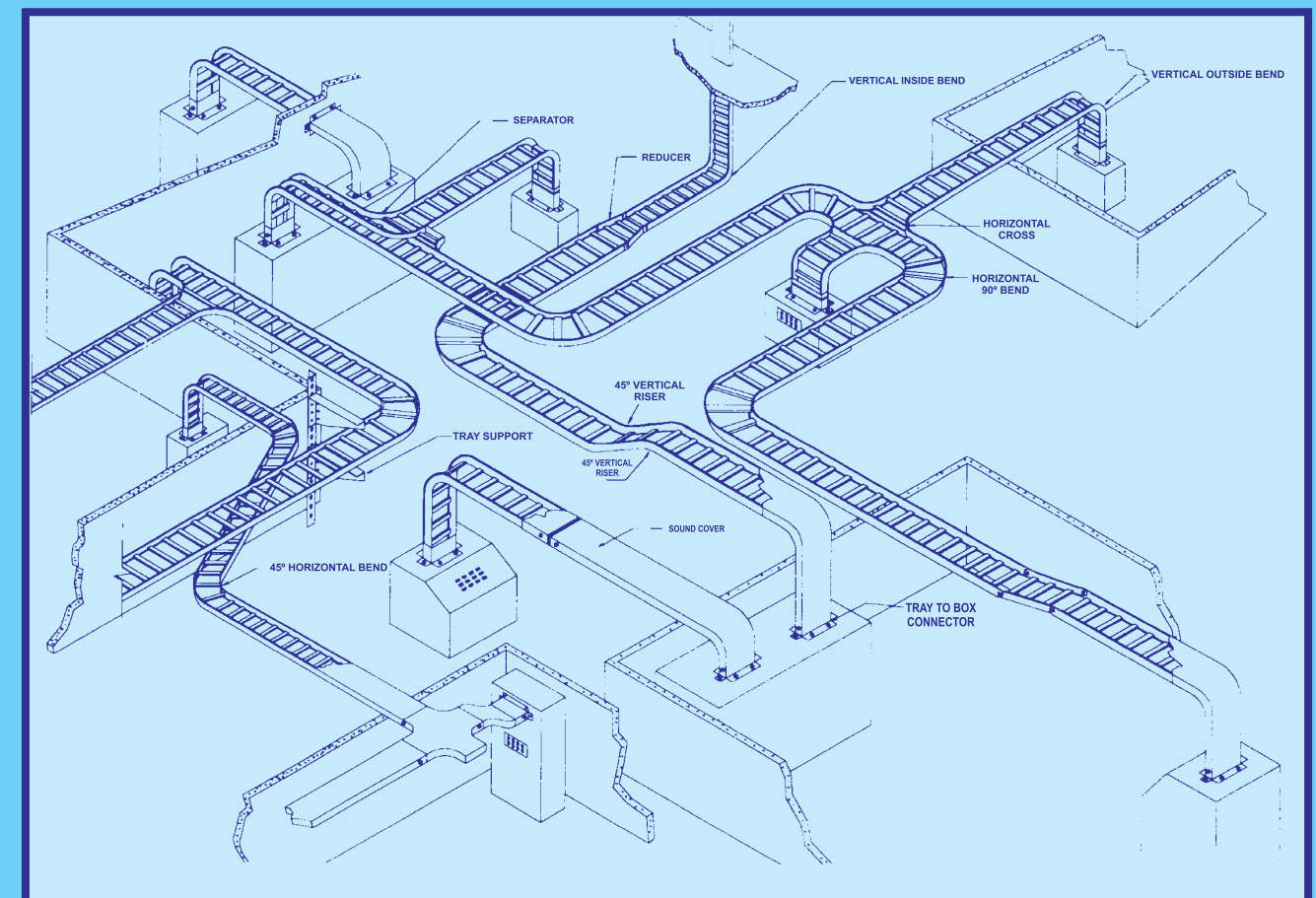
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" Our Other Products "



CABLE MANAGEMENT SYSTEM

CABLE TRAYS, COVERS & ACCESSORIES



Perfect Designing

Long Term Economy

Easy Installation & Replacement

Cable Tray as an Engineered Product

Vision and Mission

Our Vision

We aspire to be the global steel industry benchmark by being the world's most reliable and innovative value added Steel Manufacturer, service and Solution Provider.

Our Mission

To maximize value for our worldwide client base by supply high quality steel products, providing related services and solutions while utilizing innovative technologies and a team of motivated employees, focused on continuous improvement, highest business standards, work ethics and corporate citizenship.

Our Company Policy

The company management preaches Japanese Style of Management where ideas pass on from shop floor level right up to the top management's desk. We make sure that right thing is at right place at right time. This helps us to manufacture our products with high precision and meeting all the specifications. We have capability to deliver and meet urgent needs of our customers and have built their confidence by providing high quality in time. Our manufacturing facilities which are spread out in Al Quoz, Umm-Al-Quwain, Ajman and Libya help us to execute bulky orders in time.

We believe in continuous improvement and follow Lean and Kaizen principles. We are striving to serve you better.

PREFACE

DANA Offers a comprehensive range of components forming the elements of a Complete cable management system. The system offered comprises :

- DANA Cable trays and cable ladders (conforming to BS EN 61537)
- DANA Metal channel cable supports (conforming to BS 6946)
- DANA Steel surface Trunking (conforming to BS EN 50085-1:2005 (which supersedes BS4678-1))
- DANA Pull Boxes
- DANA Cable tray Accessories

DANA Cable Management system's full range of products from are having ISO 9001:2008 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 which help us to maintain a unique quality product throughout manufacturing. Entire DANA Cable management system has been designed to minimize welding. Last 15 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 & Asia.

Dana cable management system do comply with nema standard

Nema VE1

It covers general cable tray definition, manufacturing standards, performance standards, test standards and application information.

Nema VE2

It is a cable tray installation guidelines which covers receiving and unloading material, storage of material and general installation process.

We offer the best quality products at best prices in the region .Over the years, DANA Steel has placed a continuous emphasis on improving processes, with a view to consistently enhancing quality ,improving efficiency and thereby achieving better performance benchmarks in all areas. Our products provide you the Quality, Strength and Endurance. Contact Us right now for further Product Enquiry.

Flat Products



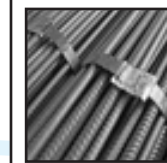
- Hot Dipped Galvanized Coils
- Hot Rolled Steel Plates
- Cold Rolled Coils
- Hot Rolled Shipbuilding Plates (LR; ABS; DNV; BV)
- More

Metal Profile for Ceiling & Partition



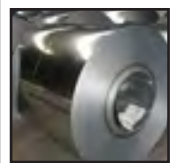
- Metal Profile for Ceiling & Partition

Long Products



- Beams
- Channels
- Angles

Steel Coil Services



- Cut to length
- Slitting Line

Cable Trays



- Cable Trays
- Trunking and Accessories
- StrutChannel and Support Systems

Pipes & Tubes



- Black Galvanized Steel Pipes
- Scaffolding & Structural Pipes
- Casing Pipes

Profiles and Cladding



- Profiled Cladding Sheets (single skin)
- C and Z Purlins
- All kind of Accessories

Scaffolding & Formwork Systems



- Scaffolding
- Steel Planks
- Galvanized Steel Scaffolding Plank
- Props and Shoring

Water Coolers and Chillers



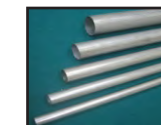
- Water Coolers
- Water Chillers

Water Heaters & Pool Heat Pumps



- Water Heaters
- Water Pool Heat Pumps

GI/PVC Conduits



- GI Conduits
- PVC Conduits
- Accessories

Steel Lintels



- Single Wall Lintel
- Double Wall Lintel
- Cavity Wall Lintel

S #	Final Customer	Project Name	Plant Type	Delivery Period	Place of Construction
				(month/year)	
18	Emaar Properties PJSC	Infinity Tower, Dubai Marina	Commercial Complex	2008	Dubai
19	Hayan Petroleum Company (HPC)	Jihar Stage 3 Projct	Gas Treatment Plant	2009	Syria
20	Tamouh Investments	Al Reem Island : Zone C, Shopping Mall in Zone E1	Commercial Complex	2008	Dubai
21	BOROUGE LLC	Petrochemical Complex Expansion : Borouge	PetroChemical Complex	2009	Ruwais
22	DEWA (Dubai Electricity and Water Authority)	Power Plant and DeSalination Plant Phase 'M' Block 1	Power Plant	2008	Jebel Ali, Dubai
23	DEWA (Dubai Electricity and Water Authority)	Gas Compression Plant for Power Plant and DeSalination Plant Phase 'M' Block 1, 2 and 3	Gas Compression Plant	2009	Jebel Ali, Dubai
24	Gulf Steel Factory	Gulf Steel Rolling Mill Project	Mill	2009	Abu Dhabi
25	Dubailand	Skycourts Apartments	Commercial Complex	2008	Dubai
26	RTA , Dubai	Metro Station : Al Qusais Parking	Metro Project	2009	Dubai
27 E	nterprise de construction et des services	Avenue Georges Clemenceau,	Building Project	2009	Djibouti
28	Flowserve	Inhouse requirements	Pump Transport boxes	2009	Jebel Ali
29	Al Jazeera Port	Al Hamra Development Project	Port and maintenance	2009	Ras Al Kahimah
30	SNC Lavalin , Fichtner	Al Qatrana Power Project	Power Plant Project	2010	Jordan
31	Bechtel Overseas	Angola LNG Project	Angola LNG Project	2009 , 2010	Angola
32	GASCO	Hasshan Sulphar Granulation Plant	Sulphur Granulation Plant	2013-2014	HABSHAN
33	PDO	Saih Rawl Depletion Compression	SRDC Phase-2	2013-2014	Oman
34	SONGAS	Electrical Sub-Station Project	Sub-station Project	2014	Dar-es-salaam, Tanzania
35	GASCO	Habshan Maqta Taweelah Gas Pipe Lines Project	Gas Pipe Lines Project	2013-2014	HABSHAN
36.	GAC	Maas Project Lighting System	Lighting System	2014	Saudi Arabia
37.	GAC	Razz-Al-Khair Project	Razz-Al-Khair Project	2014	Saudi Arabia

Raw Material

Carbon Steel

This raw material occupies 90% of Cable tray manufactured through out the world, confirms to BS 1449 / BS EN 10130 / BS EN 10131. It combines good strength economy and availability. It has got various coating on top of that to avoid corrosion.

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 resists fire to a greater extent. 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 chlorides.

Surface Coatings

HOT DIP Galvanizing After Fabrication (HDGAF)

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 consisting 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 45-85 Micron (320-610 gm²) depending on thickness.

Corten A Steel can be deep galvanized upto 3 to 4 times of normal coating where the operation remain same as aforesid. Grey coating is expected due to the high silicon content of this Steel.

American Standard : ASTM A123, A153 and A767

British Standard : BS EN ISO 1461:1999 (which supersedes BS 729:1971)

PRE-GALVANIZED Finish or Hot DIP Galvanized sheet finish (HDGBF)

This finish is an economical solution in the normally dry indoor applications 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. Not suitable for any highly corrosive and high humidity atmospheric conditions.

Generally we use the current steel grade of Z 275 (G-90).

British Standard : BS EN 10346; 2009, which supersedes BS EN 10142:2000 (Formerly BS 2989-1982)

American Standard : ASTM A653 / A653M

Electro-Galvanizing (EG)

In this finish a thin zinc layer is deposited in electrolysis process to an average of 8 to 10. Usage is limited only to dry interior spaces due to very less coating tickness. All zinc electroplating with passivation is in accordance to BS7371 for threaded mild steel products up to 19mm in diameter and to BS1706 for other mild steel products.

Epoxy Powder Coatings (PC)

These coatings are applied to mild steel components. The coating can be offered in a wide variety of colours to meet the architectural project requirements. The coatings themselves are resilient to damage and will withstand atmospheric pollution and ultraviolet exposure from sunlight.

INTERNATIONAL STANDARDS IN MATERIAL AND FINISHES

DANA Steel produces the components of its cable management system from materials to the following internationally recognized standards :

SUFFIX	TYPE	DESCRIPTION
PG	Pre Galvanised	To BS EN 10346: 2009, which supersedes BS EN 10142:2000 (Formerly BS 2989-1982) the substrate is mild steel Grade DX51D with yield >200 N/mm2. The zinc coating is applied before metal forming and the grade used Z275 implies a coating thickness of 20 microns.
HDG	Hot Dip Galvanized	>1.5mm thick steel Grade D11 to BS EN 10111 yield >200 N/mm2 or <1.5mm thick steel to Grade DC01 to BS EN 10130 yield >200N/mm2 is used to manufacture components, which are galvanized to the requirements of BS EN ISO 1461 generating a coating thickness of at least 65 microns. On customer request we can increase it upto 85 microns.
SS	Stainless Steel	Austenitic stainless steel to BS EN 10088 Grade 1-4401 is used which has 17% Chromium 12% Nickel & 2% Molybdenum analysis.
PC	Powder Coated	>1.5mm thick steel Grade D11 to BS EN 10111 yield >200 N/mm2 or <1.5mm thick steel to Grade DC01 to BS EN 10130 yield >200N/mm2 is used to manufacture components, which are coated with an epoxy powder. This will be in an agreed colour, offering a cosmetic finish with only limited anti-corrosive properties.
HDP	Painting after Hot Dip Galvanization	After Hot Dip Galvanizing substrate steel to BS EN ISO 1461:1999 (65 - 85 microns) a fully automated painting line, paints the material in specified colors with a 3 coat system. i.e. : Primer Coat : Primer epoxy (40 micron) Intermediate Coat : Polyamide MIO Epoxy (40 microns). Finish Coat : Modified aliphatic polurethane (75 microns).

It is possible for DANA Steel to manufacture components of the product range in alternative materials to those listed above. For further information on these possibilities please contact our Technical Department.

S #	Final Customer	Project Name	Plant Type	Delivery Period (month/year)	Place of Construction
1	EMICOOL Union Properties PJSC	Dubai Motor City Project	District Cooling Plant	2007	Dubai
2	Ministry of Transport and Communications - Oman, Daewoo Shipbuilding and Marine Engineering (DSME) - South Korea , Ministry of National Economy Oman	Duqm Port in Gulf of Masirah, Oman	Port and neighbouring infrastructure projects	2009 till 2011	Oman
3	SNC Lavalin	Ambatovy Nickel Pipeline Project	Mining and preparation Plant	2009	Madagascar
4	BURULLUS GAS COMPANY	WDDM – Phase VII Main Compression Project	Gas Compression Project	2010	Egypt
5	SAUDI ARAMCO	KARAN ARAMCO OFFSHORE AND SUBSEA PIPELINES PROJECT	Offshore Gas Field Production Plant	2009-2010	Karan, KSA
6	EMAL (Dubai Aluminium Company Limited (DUBAL) and Mubadala Development Company	Emirates Aluminium Smelter Complex	Smelter complex	2009	Taweelah, Abu Dhabi
7	DEWA (Dubai Electricity and Water Authority)	Project 2202 : Jebel Ali DEWA substation for Blocks 1,2 & 3	Black Diesel Start Generator Set	2007 - till date	Jebel Ali
8	ADNOC Group, Abu Dhabi Polymers Company (BOROUGE LLC)	Petrochemical Complex Expansion : Phase 2	PetroChemical Complex	2008 till date	Ruwais
9	YEMEN LNG	TOTAL CCU extension project	Central Compression Unit	2010	Yemen
10	ADNOC Group, Abu Dhabi Polymers Company (BOROUGE LLC)	Petrochemical Complex Expansion : Borouge	PetroChemical Complex	2008	Ruwais
11	Jay Ray McDermott	Transformer Skids for Port	Jebel Ali Port	2010	Jebel Ali
12	Cimac FZCO	RAK GAS Project	Gas Project	2009	Ras Al Khaimah
13	GS Engineering and Construction	Green Diesel Project	Refinery Expansion	2009	Ruwais
14	TRANSCO (Abu Dhabi Transmission and Despatch company) , ADWEA	IWPP Fujairah Phase II Water Transmission Project System	Water Transmission Project	2008	Abu Dhabi
15	ADNOC Group, Abu Dhabi Polymers Company (BOROUGE LLC)	Borouge 2	PetroChemical Complex	2008-till date	Ruwais
16	DEWA (Dubai Electricity and Water Authority)	DFO PipeLine from Jebel Ali Free Zone to Aweer Power Station	PipeLine	2008-till date	Dubai
17	BP SAJAA SHARJAH LTD	Jet Fuel Storage Facility (Anabeeb)	PipeLine	2008	Sharjah

CABLE TRAY LOAD GRAPHS

SAFE WORKING LOADS

The following Loading Charts are to give guidance on maximum safe working loads when using Cable Ladders & Trays (installed horizontally) produced by DANA. They are published in accordance with the requirements of the industry standard BS EN 61537:2001. Load tests simulated the conditions of a multiple span of at least 4 spans with the end spans reduced to 75% of the intermediate spans.

The graphical presentation links established maximum safe working loads at specified intermediate spans.

Loads below the drawn line are SAFE - loads above the drawn line are UNSAFE. When using this information the installer should take into account:

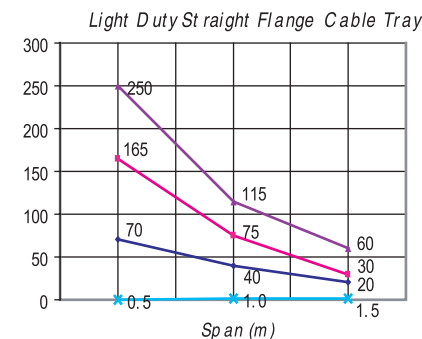
- The guidance offered in our presentation of system design considerations should be studied Loading is assumed to be uniformly distributed.
- If point loads are imposed or the installation is less than 4 spans our technical department should be consulted.
- The graphs should not be extrapolated to shorter or longer spans than those shown.
- The installer should be satisfied that supports are of adequate strength and that all connections are fully tightened.
- The loading information is given in good faith based on tests carried out with DANA products. However, DANA cannot be held responsible for a variation in performance of this product range.

WARNING!

DANA CABLE TRAYS A LADDERS ARE PART OF A CABLE MANAGEMENT SYSTEM THEY SHOULD NEVER BE USED FOR OTHER STRUCTURAL PURPOSES AND MUST NOT BE USED AS WALKWAYS BY INSTALLATION OR MAINTENANCE PERSONNEL.

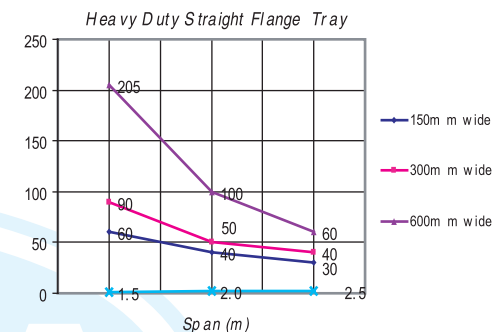
LDT

150	300	600	Span - between supports (m)
Uniformly Distributed Load (Kgs / m)	Uniformly Distributed Load (Kgs / m)	Uniformly Distributed Load (Kgs / m)	
70	165	250	0.5
40	75	115	1.0
20	30	60	1.5



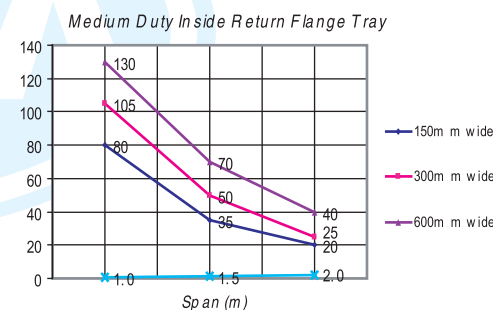
PHDT

150	300	600	Span - between supports (m)
Uniformly Distributed Load (Kgs / m)	Uniformly Distributed Load (Kgs / m)	Uniformly Distributed Load (Kgs / m)	
60	90	205	1.5
40	50	100	2.0
30	40	60	2.5



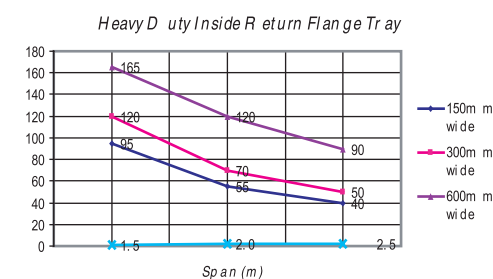
MDT

150	300	600	Span - between supports (m)
Uniformly Distributed Load (Kgs / m)	Uniformly Distributed Load (Kgs / m)	Uniformly Distributed Load (Kgs / m)	
80	105	130	1.0
35	50	70	1.5
20	25	40	2.0



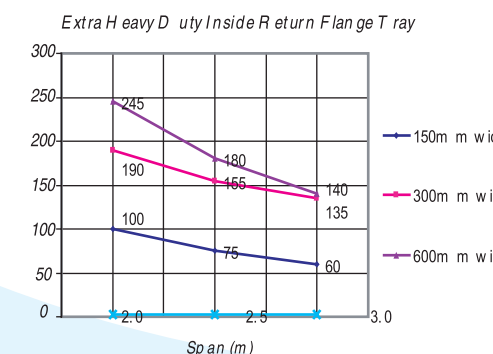
HDT

150	300	600	Span - between supports (m)
Uniformly Distributed Load (Kgs / m)	Uniformly Distributed Load (Kgs / m)	Uniformly Distributed Load (Kgs / m)	
95	120	165	1.5
55	70	120	2.0
40	50	90	2.5



XDT

150	300	600	Span - between supports (m)
Uniformly Distributed Load (Kgs / m)	Uniformly Distributed Load (Kgs / m)	Uniformly Distributed Load (Kgs / m)	
100	190	245	2.0
75	155	180	2.5
60	135	140	3.0



CABLE TRAY SYSTEM

A cable tray system is an assembly of metallic cable tray sections and accessories, that forms a rigid structural system to support cables.

IEC 61537 : 2006

THE NEED FOR A CABLE TRAY SYSTEM

As technology advances, so too does the need for effective support systems. Today, plants and buildings are moving more and more towards automation. Requiring complex system of wiring and cable laying.

Old methods of cable management become obsolete under these demanding conditions.

- Regular inspections must be carried out, & faults located
- Many entry/exit points are required
- New cables may need to be installed, and old ones removed
- Ventilation, essential to power and similar cables, must be provided

Today cable trays have become a necessary part of industrial and commercial construction by offering quick, economical and flexible solutions to these problems.

Cable trays are capable of supporting all types of wiring:

- High Voltage Power Lines
- Power Distribution Cables
- Sensitive Control Wiring
- Telecommunication Wiring
- Optical Cables

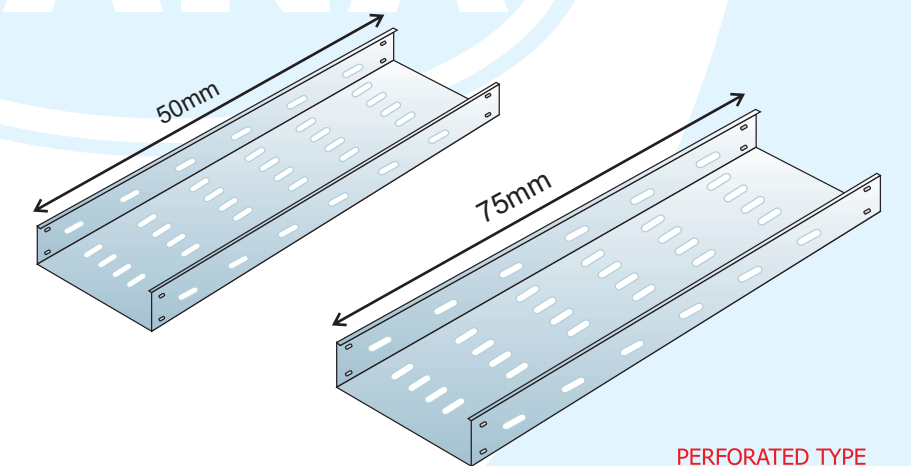
ADVANTAGES OF DANA CABLE TRAYS

DANA cable tray systems are manufactured in accordance with the precise standards laid down by the IEC. Thus ensuring standardisation of materials used, as well as load-bearing capacities.

DANA cable tray system offer the following advantages

- Easy Installation
- Increased cable fill over other wiring method. Thereby saving material costs and installation labour
- Less space utilisation than comparable conduit or other systems
- The metal can be used as an equipment ground conductor
- Easy inspection of cables
- Easy location of faults and quick repair, without replacement of the original cable run
- Cables can be dropped out at any point without expensive boxes or fittings
- Cables can instantly be added to existing trays at a later stage

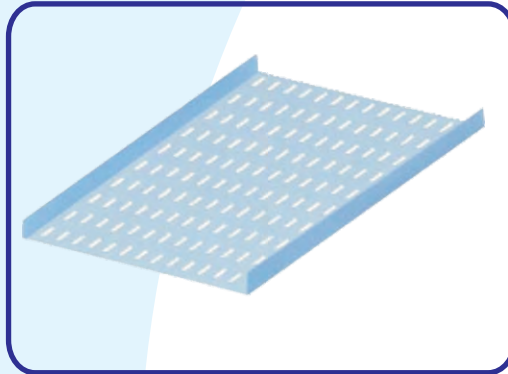
TYPES OF CABLE TRAY



PERFORATED TYPE

SOLID BOTTOM TYPE

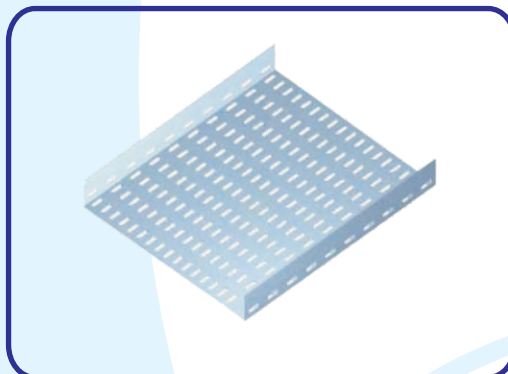
DANA CABLE TRAY SYSTEMS - OVERVIEW



LIGHT DUTY STRAIGHT FLANGE CABLE TRAY

LDT - Cable Trays are produced with straight flanges and smaller side height for light duty applications. Ease of installation and accessibility.

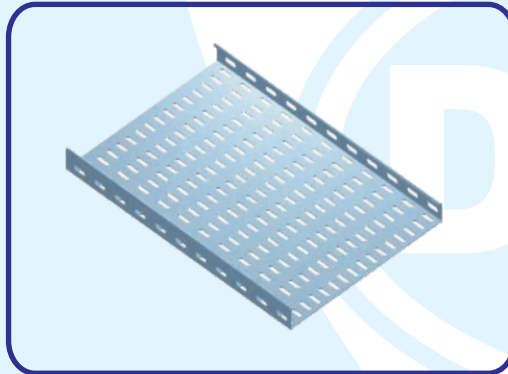
**SIDE HEIGHT: 15 mm upto 300 mm
20 mm above 300 mm**



HEAVY DUTY STRAIGHT FLANGE CABLE TRAY

DHDT - Cable Trays are produced with straight flanges with larger provision of cable depth. Ease of installation and accessibility.

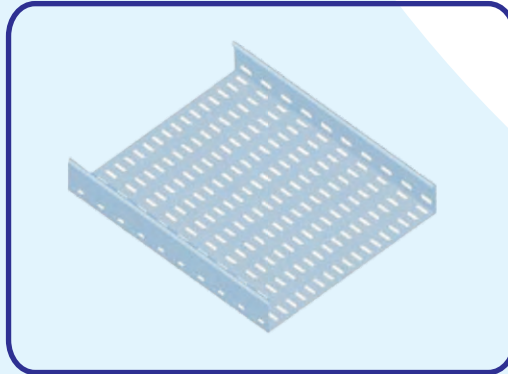
SIDE HEIGHT: 35 mm



MEDIUM DUTY INSIDE RETURN FLANGE CABLE TRAY

MDT - Cable Trays are produced with inside return flanges to provide strength to the component and better load bearing capacity.

SIDE HEIGHT: 25 mm



HEAVY DUTY INSIDE RETURN FLANGE CABLE TRAY

HDT - Cable Trays are produced with inside return flanges with larger depth for better cable management and increased load bearing capacity.

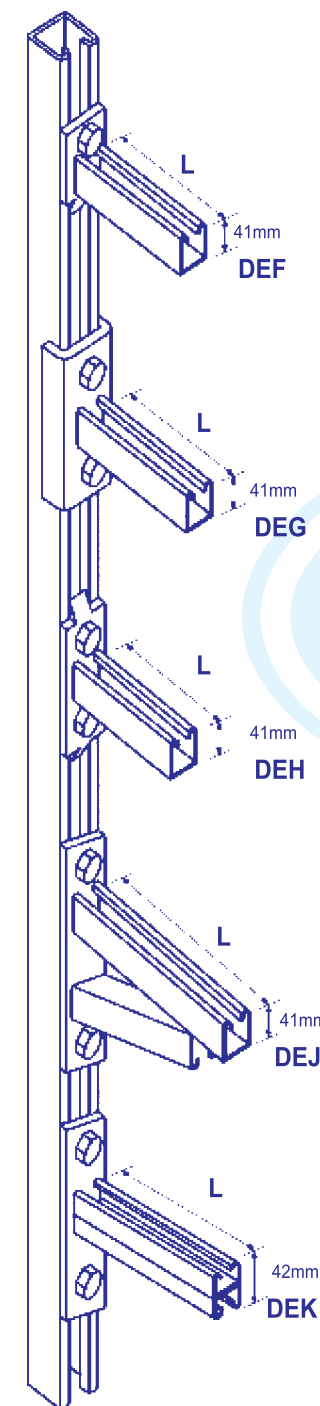
SIDE HEIGHT: 50 mm

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.



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*	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*	1.20
DED	230	660*	1.60
DED	330	600*	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*	1.20
DEE	230	370	1.40
DEE	330	270	1.70
DEE	480	175	2.10
DEE	630	140	2.40

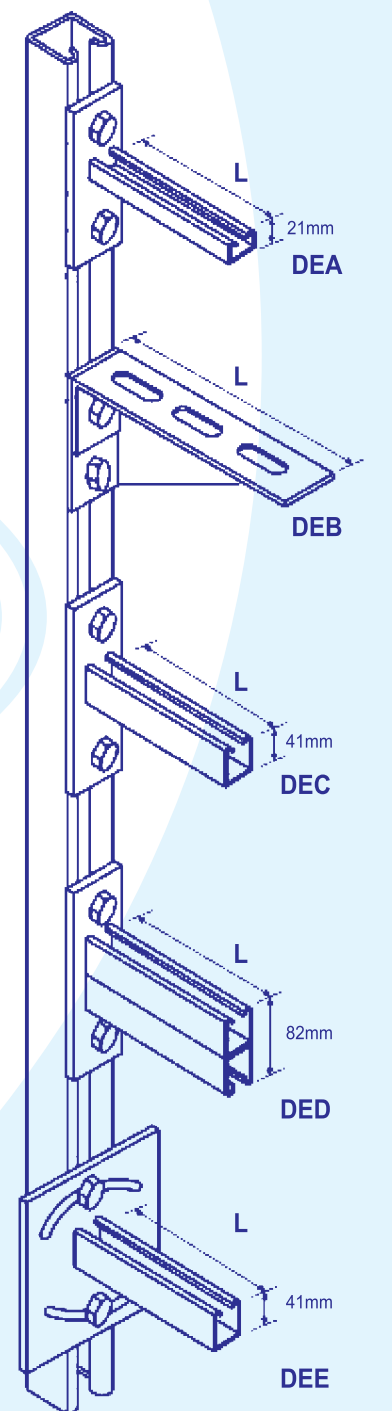
DEF	180	390*	0.54
DEF	230	310	0.70
DEF	330	245	1.00
DEF	480	190	1.40

DEG	180	550*	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*	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*	1.70
DEJ	480	500*	2.40
DEJ	630	375	2.80
DEJ	780	300	3.80
DEJ	930	200	4.50

DEK	330	454*	1.20
DEK	480	320	1.60
DEK	630	246	1.90



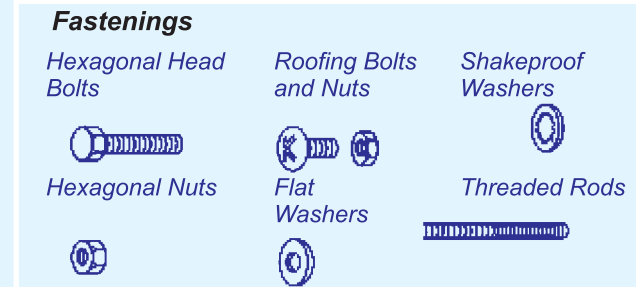
* Uniformly Distributed Load in Kgf

* 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.

DANA CHANNEL SUPPORT SYSTEM

Standard fastenings



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

Electroplated 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

Shakeproof Washers

Electroplated Zinc

M6	pack 400	SW06EG
M8	pack 400	SW08EG
M10	pack 400	SW10EG
M12	pack 400	SW12EG

Threaded Rods in 2 meters as standard

Electroplated 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

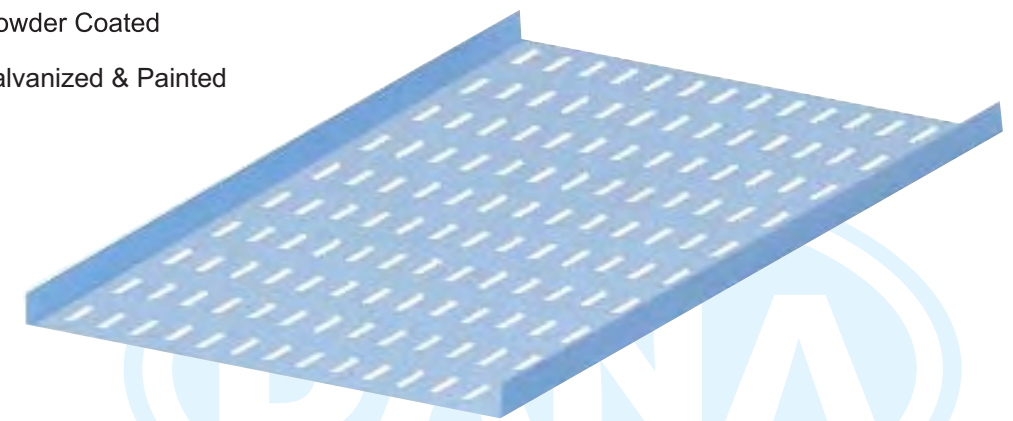
STRAIGHT FLANGE CABLE TRAY

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
PG	Pre-galvanized to BS EN 10142 & 10143
PC	Powder Coating to suit clients requirements
SS	Stainless steel finish to required grades
S4	Stainless Steel 304
S6	Stainless Steel 316
AL	Aluminum
CA	Corten A Steel
HP	Hot Dip Galvanized & Epoxy powder Coated
HDP	Hot Dip Galvanized & Painted

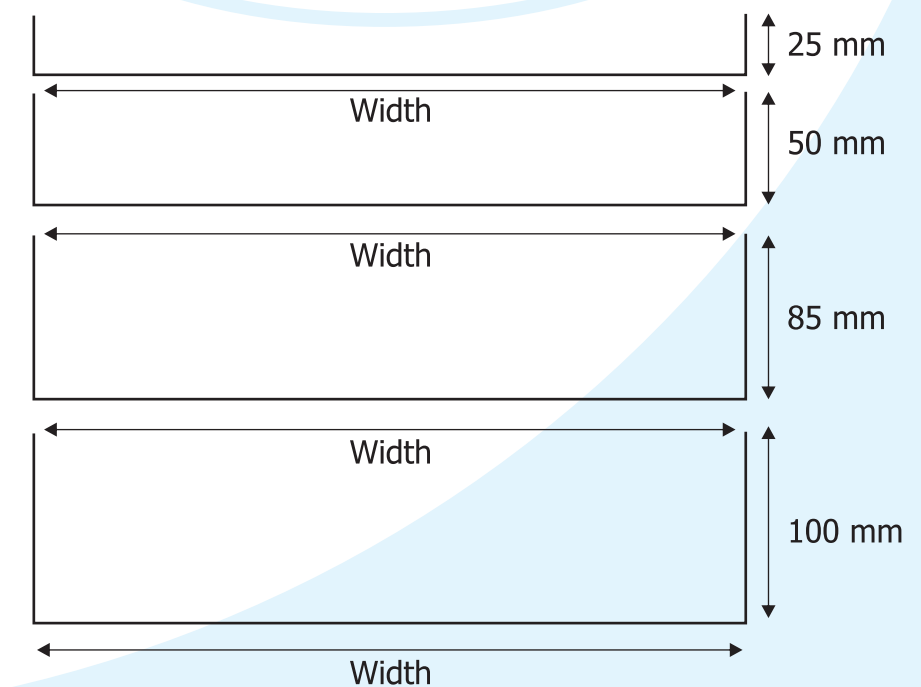
FOR STRAIGHT LENGTHS AND ACCESSORIES

Width (W)	Thickness (T)
All dimensions are in mm	
50 to 150	1.0
225 to 300	1.2
450 to 600	1.5
750 to 900	2.0



Standard length is 3 meters.

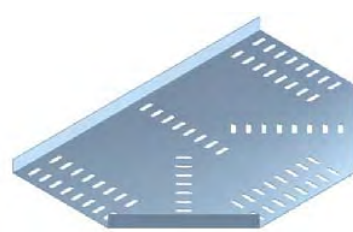
"Custom made orders are also prepared. Kindly specify your dimensions."



STRAIGHT FLANGE CABLE TRAY FITTINGS



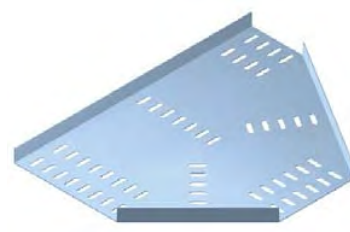
CABLE TRAY - CT



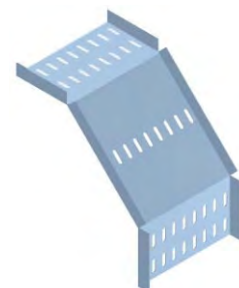
TEE HORIZONTAL - T



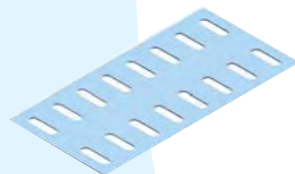
ELBOW HORIZONTAL AL - B90
(90 DEG BEND)



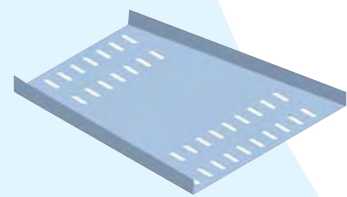
UNEQUAL TEE - UT



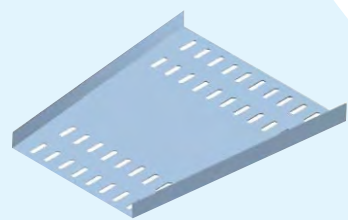
EXTERNAL RISER - XR



FISH PLATE



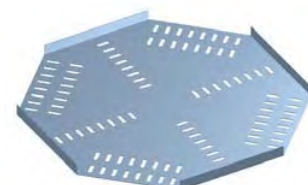
REDUCER STRAIGHT - RS



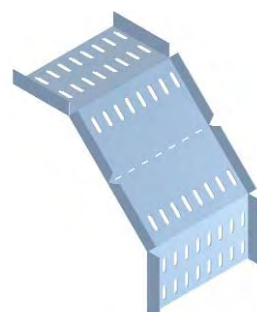
REDUCER LEFT - RL



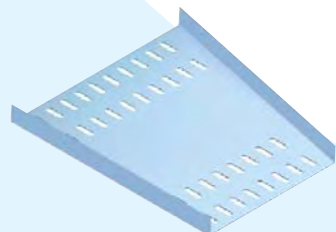
INTERNAL RISER - IR



CROSS HORIZONTAL - XH



ADJUSTABLE RISER - AR

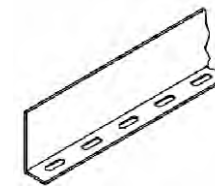


REDUCER RIGHT - RR

FISH PLATE

Width (mm)	Thickness (mm)
50 to 300	1.5
450 to 900	2.0

Divider



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 × 12mm roofing bolt, nut and washer per length.

Divider



Uses of threaded rod is limited to a maximum of 12mm dia, if not using proper brackets in the Strut Channel

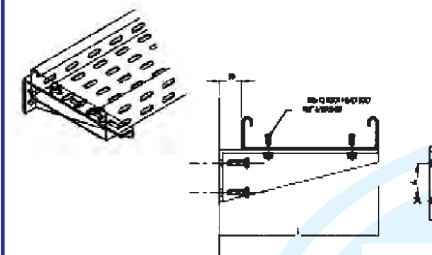
Earth Continuity Connector



Braided Copper, 4mm² Conducting area, 100mm center to center

Fastening not included. Use M6 × 16mm roofing bolt, nut and washer. Copper braided and copper lugs, both in electroplated finish. Length between centres : 100mm. Conductor area : 4mm².

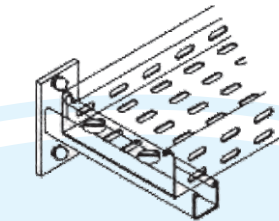
Cantilever Bracket



DEB	L	UDL
DEB	130	DEB
DEB	180	DEB
DEB	230	DEB
DEB	330	DEB
DEB	480	DEB
DEB	630	DEB
DEB	780	DEB

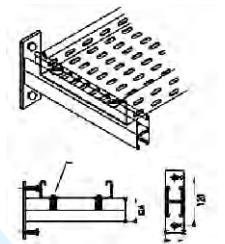
L - Length of the arm
UDL - Uniformly distributed load of kgf

Single Cantilever arm



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

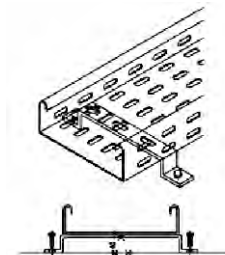
Double Cantilever arm



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

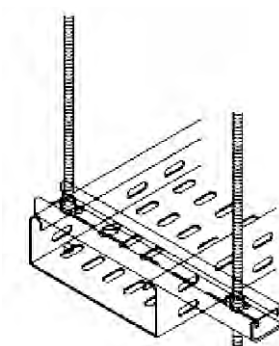
*Slip limits loading capacity when using in Strut Channel as column.

Stand off Bracket



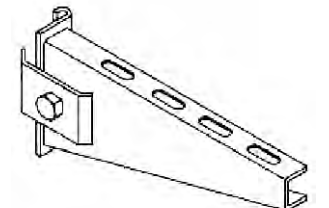
SEB	UDL
SEB	100
SEB	150
SEB	200
SEB	300
SEB	450
SEB	600
SEB	750
SEB	900

Trapeze Hanger



41 x 21 (DB 200 Series) Channel is recommended for trays upto 200mm width. For 300 mm onwards use 41 x 4) (DB 100 Series). Can be ordered in slotted profile in 3 meter. See delta strut Channel section for ordering information.

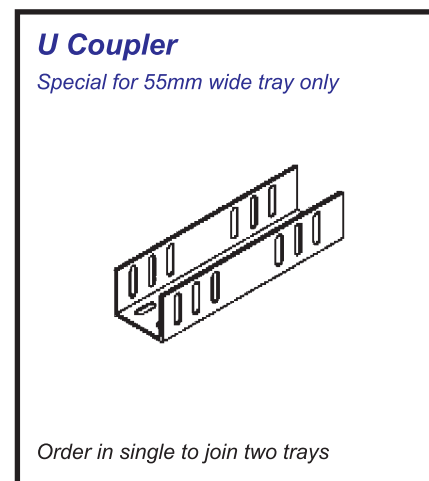
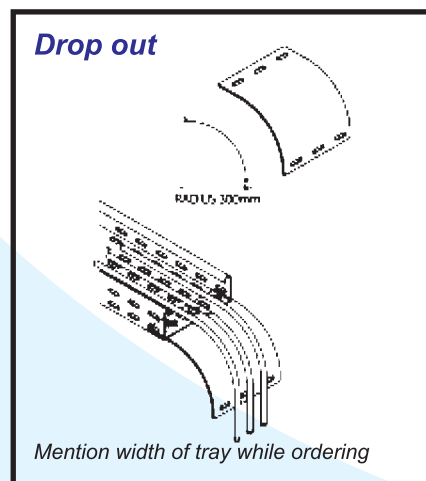
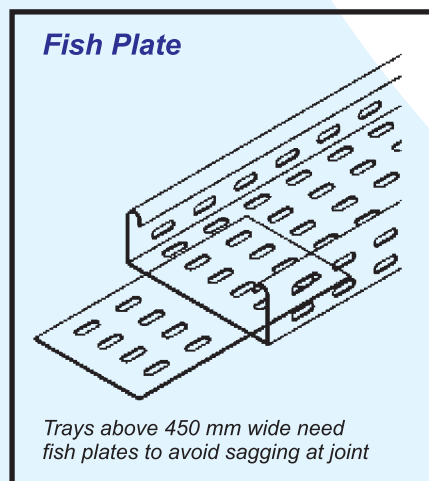
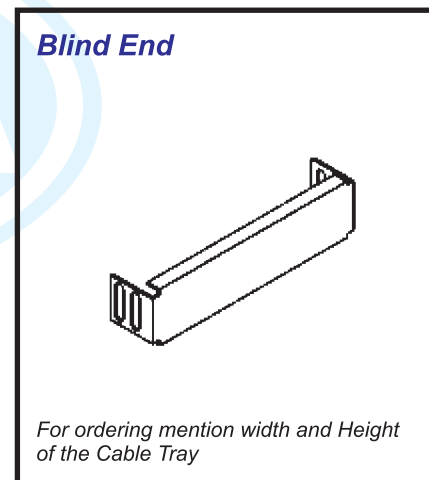
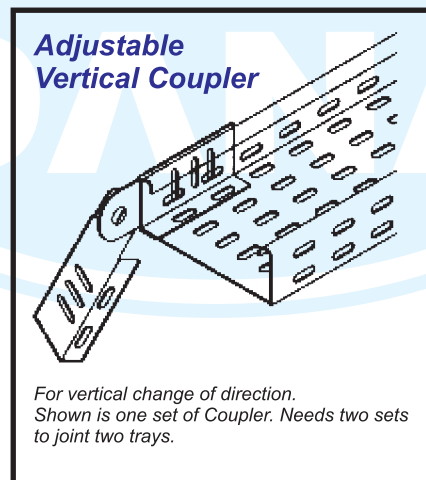
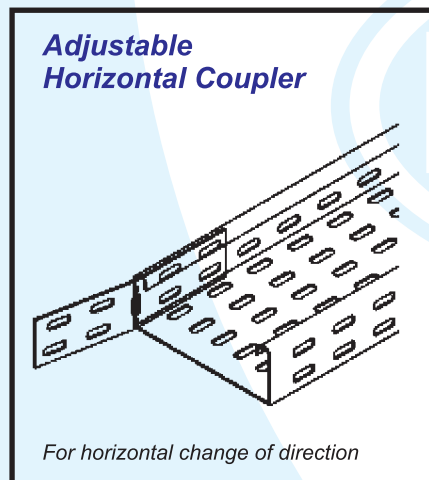
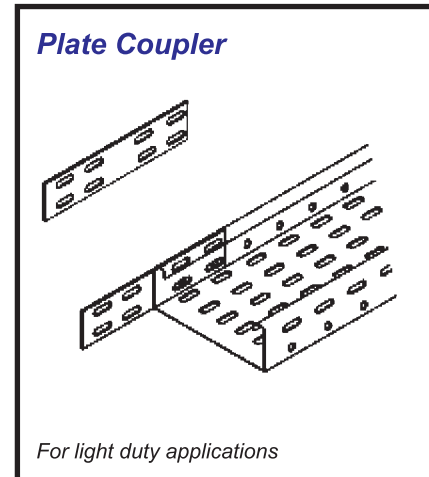
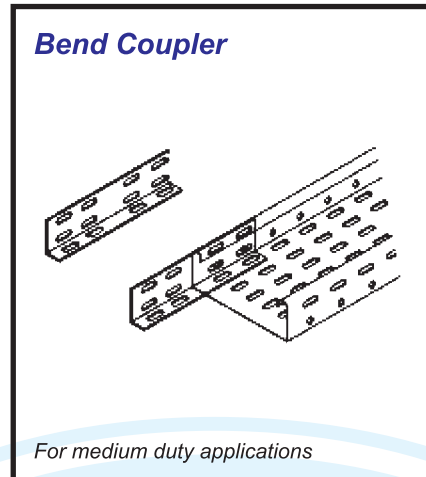
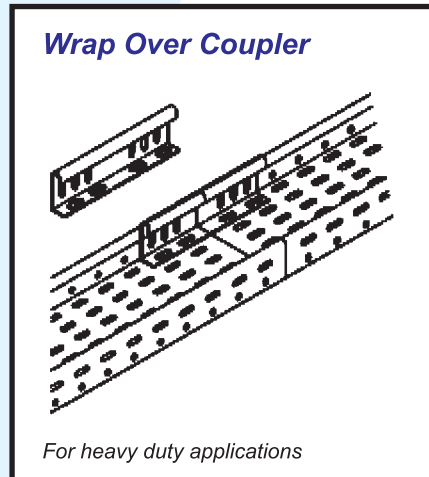
I-Beam Cantilever arm



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

CABLE TRAY ACCESSORIES

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



HEAVY DUTY STRAIGHT FLANGE CABLE TRAY

STANDARD FINISHES

- HDG Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
- PG Pre-galvanized to BS EN 10142 & 10143
- PC Powder Coating to suit clients requirements
- SS Stainless steel finish to required grades
- S4 Stainless Steel 304
- S6 Stainless Steel 316
- AL Aluminum
- CA Corten A Steel
- HP Hot Dip Galvanized & Epoxy powder Coated
- HDP Hot Dip Galvanized & Painted

FOR STRAIGHT LENGTHS AND ACCESSORIES

Width (W)	Thickness (T)
All dimensions are in mm	
50 to 150	1.0
225 to 300	1.2
450 to 600	1.5
750 to 900	2.0

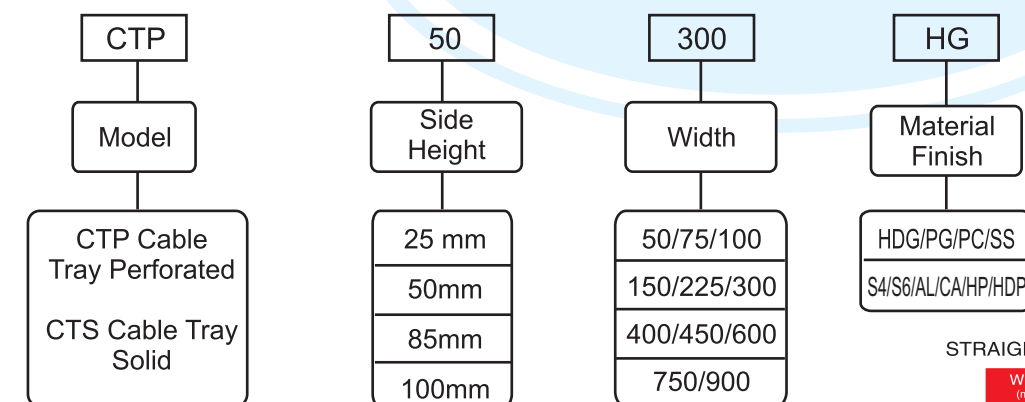
DANA Heavy Duty Straight Flange Cable Trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

DANA Heavy Duty Straight Flange Cable Tray accessories are produced to standard radius of 300 mm but can be produced in 450 mm, 600mm and 900 mm as required.

Fish Plates are recommended for the trays & accessories above 200mm widths for better load bearing capacity

Ordering Way :

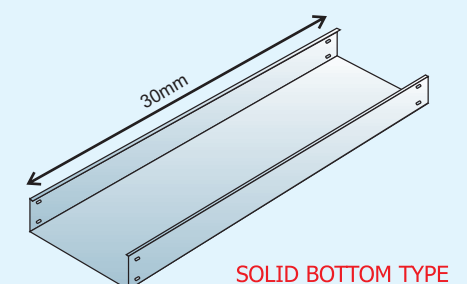
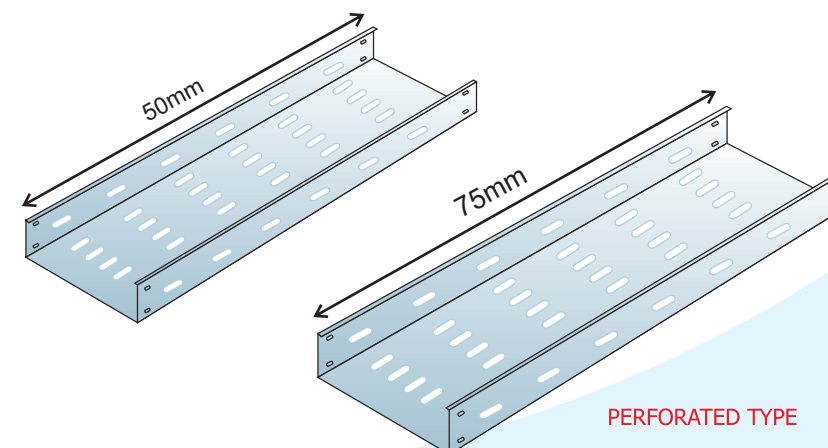
Straight Tray Ordering Way :



STRAIGHT CONNECTOR INTERNAL CONNECTOR

Width (mm)	Thickness (mm)
50 to 300	1.5
450 to 900	2.0

- Internal Connectors are produced up to the width of 150 mm only.
- For special guages sizes or design consult our sales team or factory



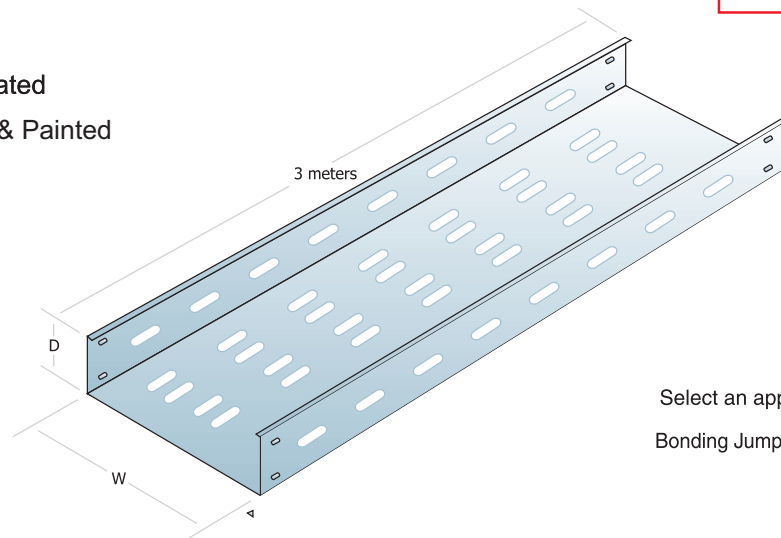
INSIDE RETURN FLANGE CABLE TRAY

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
PG	Pre-galvanized to BS EN 10142 & 10143
PC	Powder Coating to suit clients requirements
SS	Stainless steel finish to required grades
S4	Stainless Steel 304
S6	Stainless Steel 316
AL	Aluminum
CA	Corten A Steel
HP	Hot Dip Galvanized & Epoxy powder Coated
HDP	Hot Dip Galvanized & Painted

FOR STRAIGHT LENGTHS AND ACCESSORIES

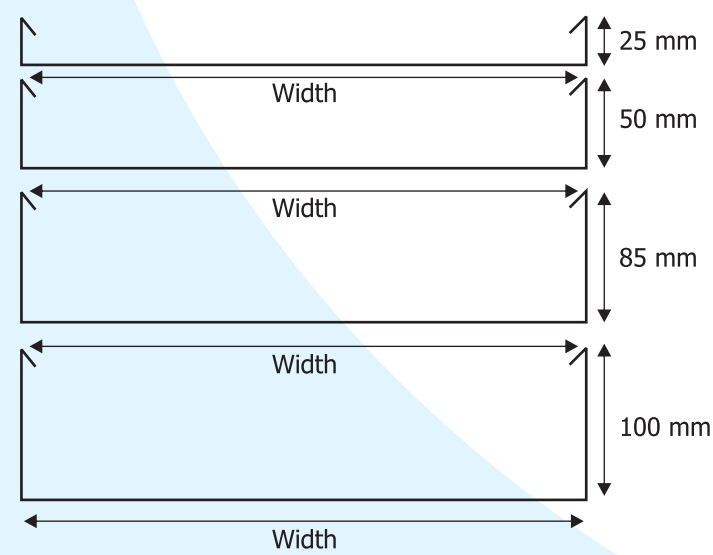
Width (W)	Thickness (T)
All dimensions are in mm	
75 to 150	1.0
225 to 300	1.2
450 to 600	1.5
750 to 900	2.0



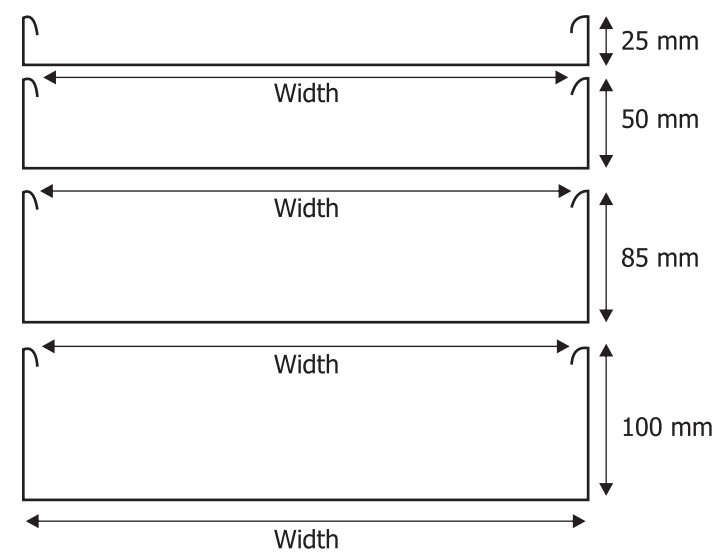
STRAIGHT / FLANGE CONNECTOR

Width (mm)	Thickness (mm)
75 to 300	1.5
450 to 900	2.0

Select an appropriate connector to suit your requirements.
Bonding Jumpers are used for the Earthing Connectivity.



Angular Return Flange



Curved Return Flange

ROUND RADIAL ACCESSORIES

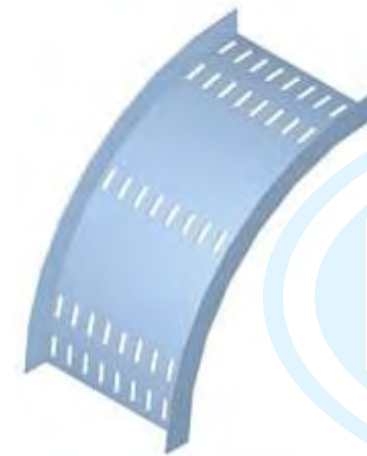
STRAIGHT FLANGE CABLE TRAYS ROUND RADIAL ACCESSORIES



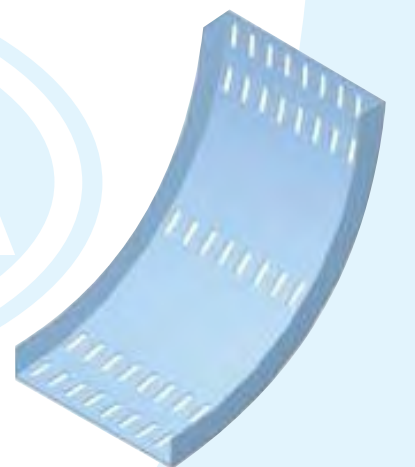
ELBOW HORIZONTAL



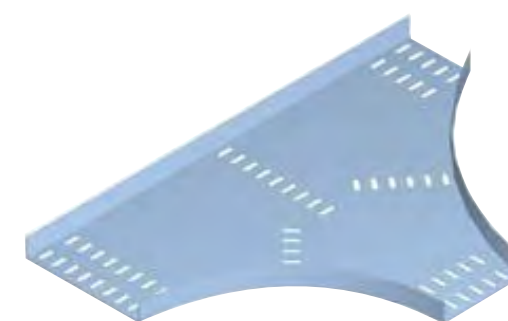
CROSS HORIZONTAL



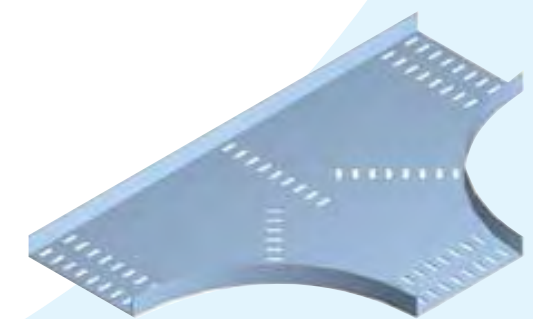
EXTERNAL RISER



INTERNAL RISER



UNEQUAL TEE HORIZONTAL



TEE HORIZONTAL

CABLE TRAY FITTINGS

BONDING JUMPER

AREA : 4 mm²
LENGTH : 112 mm from center to center
Bonding Jumper for Cable Tray earthing connectivity is produced from braided tinned copper with M6 copper lugs on both sides. Roofing bolts M6 x 12 , nuts & washers are used for fastening. To be ordered separately.

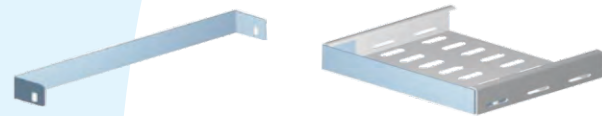


BONDING JUMPER

BLIND END

Width (mm)	Thickness (mm)
50 to 300	1.5
450 to 900	2.0

Roofing bolt M6 x 12, nuts and washers are used for fastening.



BLIND END

REDUCING CONNECTOR

Width (mm)	Thickness (mm)
50 to 300	1.5
450 to 900	2.0

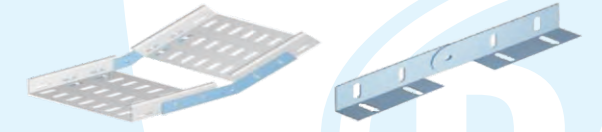
Roofing bolt M6 x 12, nuts and washers are used for fastening.



REDUCING CONNECTOR

ADJUSTABLE VERTICAL CONNECTOR

Adjustable Vertical Connectors are produced to standard 2mm thickness. Roofing bolt M6 12, nuts and washers are used for fastening.



ADJUSTABLE VERTICAL CONNECTOR

BOX CONNECTOR

Width (mm)	Thickness (mm)
50 to 300	1.5
450 to 900	2.0

Roofing bolt M6 x 12, nuts and washers are used for fastening.



BOX CONNECTOR

DROP OUT

Width (mm)	Thickness (mm)
50 to 300	1.5
450 to 900	2.0

Roofing bolt M6 x 12, nuts and washers are used for fastening.



DROP OUT

FISH PLATE

Width (mm)	Thickness (mm)
50 to 300	1.5
450 to 900	2.0

Roofing bolt M6 x 12, nuts and washers are used for fastening.



FISH PLATE

BARRIER STRAIGHT

All barrier straights are produced to standard length of 3 mtr and 1.5 mm thickness. Roofing bolt M6 x 12, nuts and washers are used for fastening.



BARRIER STRAIGHT

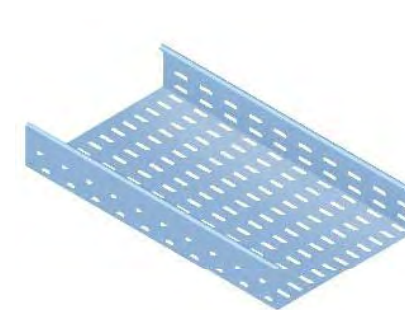
HOLD DOWN CLAMP

Hold Down Clamps are produced to standard thickness of 2mm and hexagonal bolt M8 x 20 nuts and washers are used for fastening.



HOLD DOWN CLAMP

INSIDE RETURN FLANGE CABLE MANAGEMENT SYSTEM



CABLE TRAY - CT



STRAIGHT CONNECTOR - SC



ADJUSTABLE ELBOW - AB



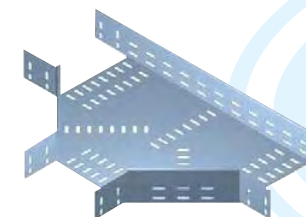
FLANGE CONNECTOR - FC



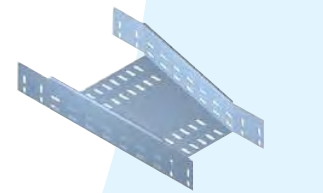
REDUCER RIGHT - RR



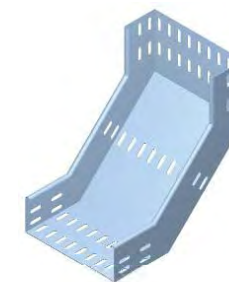
ELBOW HORIZONTAL - B90



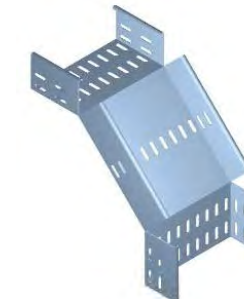
TEE HORIZONTAL - T



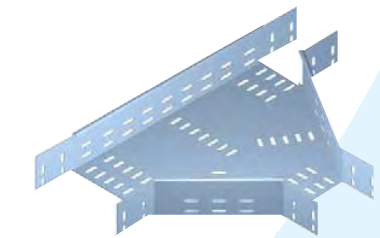
REDUCER LEFT - RL



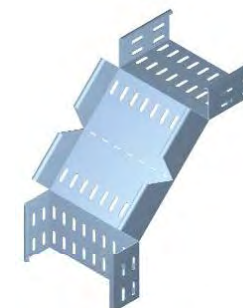
INTERNAL RISER - IR



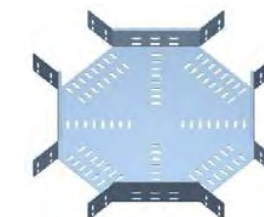
EXTERNAL RISER - ER



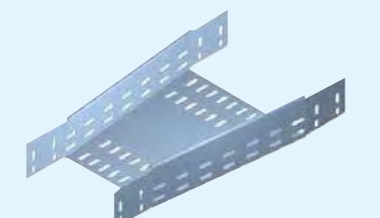
UNEQUAL TEE - UT



ADJUSTABLE RISER - AR



CROSS HORIZONTAL - XH



REDUCER STRAIGHT - RS

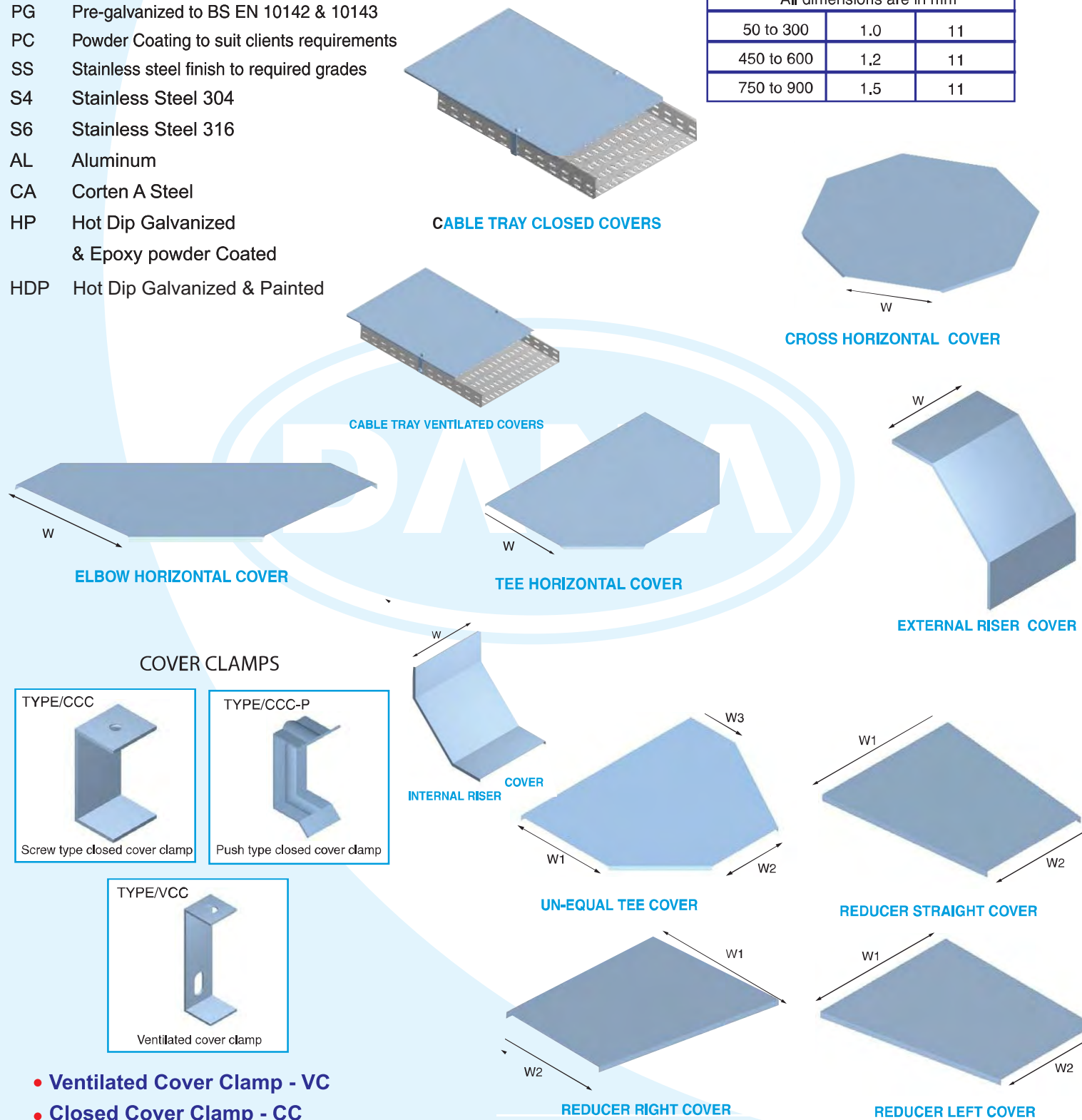
CABLE TRAY COVERS

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
PG	Pre-galvanized to BS EN 10142 & 10143
PC	Powder Coating to suit clients requirements
SS	Stainless steel finish to required grades
S4	Stainless Steel 304
S6	Stainless Steel 316
AL	Aluminum
CA	Corten A Steel
HP	Hot Dip Galvanized & Epoxy powder Coated
HDP	Hot Dip Galvanized & Painted

COVERS FOR STRAIGHT LENGTHS AND ACCESSORIES

Range / Width (W)	Thickness (T)	Side Height (H)
All dimensions are in mm		
50 to 300	1.0	11
450 to 600	1.2	11
750 to 900	1.5	11

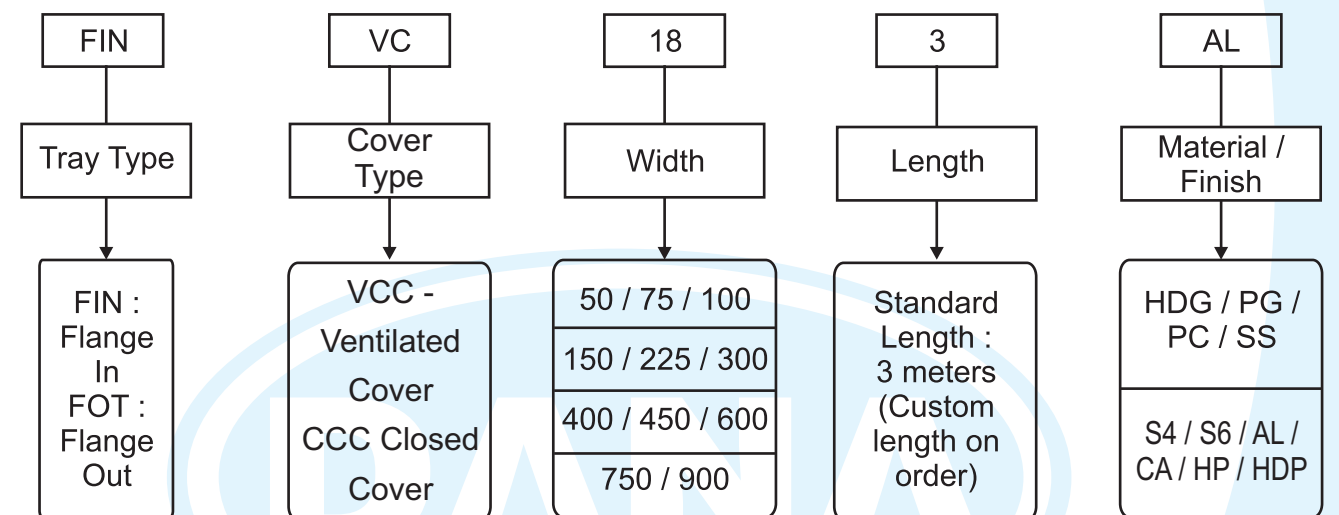


A Wide variety of covers which can be used horizontal and vertical runs to provide protection for cables installed in cable trays against environmental effects, sunlight and dirt. All covers are designed and fabricated to meet indoor and outdoor applications. Straight covers in standard are flat solid Type.

Ordering Way :

Tray Cover Ordering way :

Example :



Cable Tray Fittings Ordering Way :

