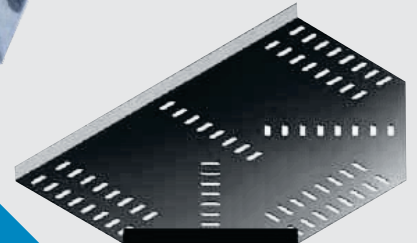
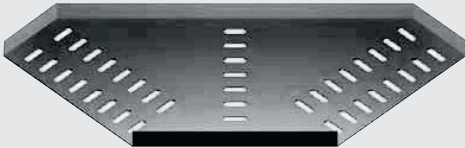
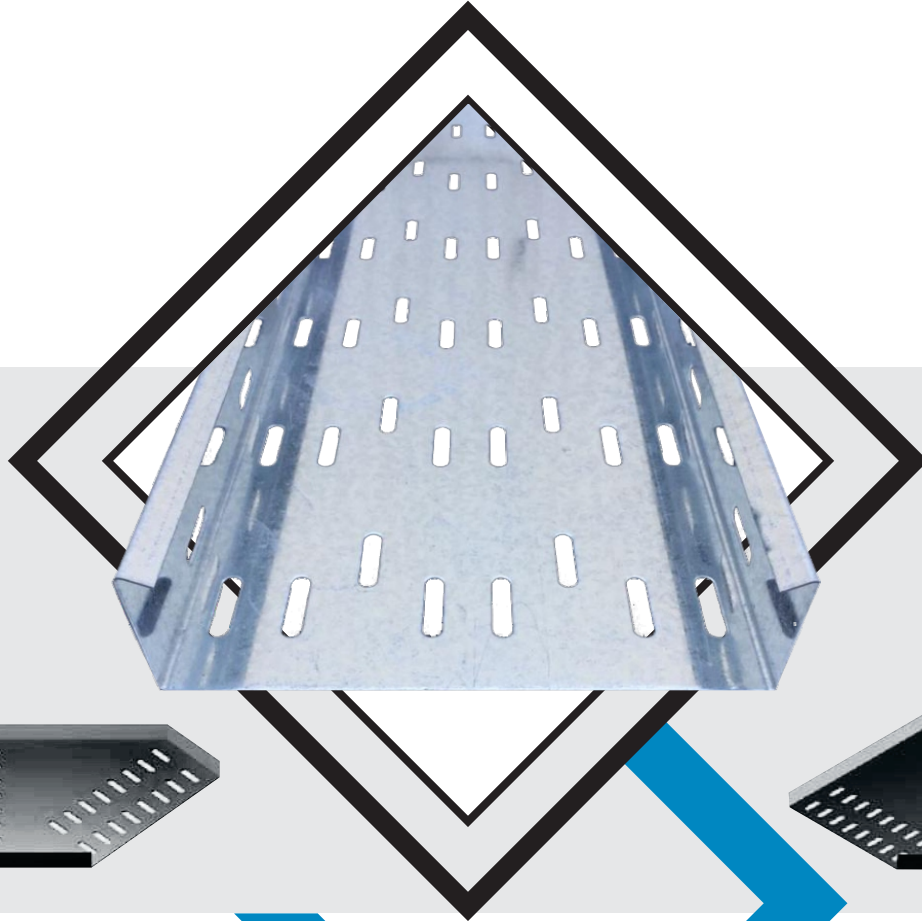




WESTPORT

Middle East



CABLE TRAY SYSTEMS Technical Data



TECHNICAL DATA CONTENTS

PREFACE	01
MATERIAL AND FINISHES	02
DESIGN CONSIDERATIONS	05
LIGHT DUTY STRAIGHT FLANGE TRAY-(LDT)	08
HEAVY DUTY STRAIGHT FLANGE TRAY-(PHDT)	20
MEDIUM DUTY STRAIGHT FLANGE TRAY-(MDT)	33
HEAVY DUTY INSIDE RETURN FLANGE TRAY - (HDT)	46
EXTRA HEAVY DUTY INSIDE RETURN FLANGE TRAY - (XDT)	59

PREFACE

WESTPORT offers a comprehensive range of components forming the elements of a complete cable management system. The system offered comprises:

Cable trays and cable ladders (conforming to BS EN 61537)

Metal channel cable supports (conforming to BS 6946)

Steel surface trunking (conforming to BS 4678 : Part 1)

When using this catalogue great care must be taken to establish all factors, which effect the environment in which the cable management system is being used. Where loading performance gures are stated, they are given in good faith based on average gures obtained by extensive testing of WESTPORT components. They are provided to assist in the system design process procedure adopted by customers but are given without accepting liability that components delivered may vary in performance. When a cable management system comprises of several different components, it will be necessary to check the system loading on all components. System designers should not extrapolate any results beyond the published data and if in doubt about the application of the product data, they should contact Metartechnical department.

CABLE MANAGEMENT SYSTEMS ARE NOT DESIGNED FOR USE AS WALKWAYS OR TO SUPPORT INSTALLATION OR MAINTENANCE PERSONNEL.

MATERIALS AND FINISHES

WESTPORT offers its range of cable management products in a variety of materials and finishes to suit the environmental conditions where components will be installed. Choice of an appropriate material / finish is always an important consideration in system design because maintenance of components once installed will be extremely difficult. Clients will undoubtedly expect a long life for the installed system and the choice of appropriate material / finish must consider the expected prevailing atmosphere and its effect on the system components.

Mild steel is an economical material for load bearing structures but if the surface remains untreated, it would rapidly begin to show signs of corrosion even in only mildly aggressive environments. When mild steel corrodes, the iron content is converted to oxides (rust), this progressively changes the strong steel into weak oxides which rapidly reduces the load bearing capacity of the affected part. If mild steel is coated with zinc, not only is the steel protected by the envelope of zinc whose chemical corrosion rate is low but since zinc is higher in the electro-chemical series, the zinc will always pass into solution before the iron content of steel. The strength of the steel structure will not be weakened by corrosion until the zinc coating has been sacrificed. The length of time it takes for the zinc coating to dissolve is in proportion to the thickness of the coating and the aggressiveness of the environment in which it is exposed.

Pre-Galvanised steel (PG) Mill Galvanised Steel.

Whilst the mild steel is still in wide coil form at the steel mill, it is processed in a continuous operation to clean the steel and pass it through a bath of molten zinc which forms iron / zinc alloys and a coating of pure zinc on the surfaces of the steel which is then cooled and re-coiled. This means that the steel is galvanised before it is slit to width, cut to length, pierced and formed to shape. The coating cannot be allowed to become thick because it would split during the forming process. However, since zinc offers electro-chemical protection, it will offer protection for what might be considered unprotected edges where the flat material has been cut or pierced. This is an effective and economic anti corrosion finish suitable for interior applications except where there is continual high humidity and / or corrosive atmosphere.

MATERIALS AND FINISHES

Hot Dip Galvanised Steel (HDG)

To achieve this finish, components made from mild steel are cleaned and dipped into a bath of molten zinc after all the other manufacturing processes have been completed. Not only does this ensure that the whole of the component is coated, it offers the opportunity to develop a much thicker zinc coating than is possible with pre-galvanising. WESTPORT takes particular care to ensure that a coating to British standards is achieved and that the distortion of components is minimised. However, this is a hot working process and some distortion and surface roughness may be in evidence. Since the zinc thickness is triple that of pre-galvanised steel, the anti-corrosive properties are enhanced. This finish will be suitable for most exterior installations except where there is a very aggressive atmosphere.

Stainless Steel (SS)

Stainless steel differs from mild steel. It contains a variety of alloyed elements, which very significantly reduce the rate at which the iron content will oxidise. The name "stainless" is a misnomer because many pollutants and chemicals will mark or stain the surface but this does not erode the strength of the steel as rusting weakens mild steel. To obtain good forming and outstanding corrosion resistance properties austenitic grades of stainless steel are used. They also have the property that they will withstand aggressive chemicals, used to wash down the processing areas where good hygiene is a high priority. The fact that stainless steel can maintain strength properties even when exposed to high temperature is also a valuable asset. This portfolio of useful properties makes stainless steel suitable for systems exposed to very aggressive atmospheres, including marine environments, high levels of pollution, caustic soda and temperatures of 1000deg C for periods long enough to give some integrity to electrical circuits in a fire emergency.

Epoxy Powder Coatings (PC)

These coatings are applied to mild steel components. The coatings 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 ultra-violet exposure from sunlight. However, if the coating envelope is broken the steel substrate will have little defence to corrosive agents. A highly decorative appearance can be achieved but longevity of this finish cannot be guaranteed.

Other Materials and Finishes.

Apart from the standard materials and finishes listed WESTPORT can offer other materials and finishes, which are required for a specific project specification. Please contact our technical department to discuss fully any such situation and the effect that this may have on other data associated with components shown in our catalogue range.

MATERIALS AND FINISHES

WESTPORT Industries produces the components of its cable management system from materials to the following internationally recognised standards.

Pre Galvanised	To BS EN 10327, the substrate is mild steel Grade DX51D with yield >200 N/mm ² . The zinc coating is applied before metal forming and the grade used Z275 implies a coating thickness of 20 microns.
Hot Dip Galvanized	>1.5mm thick steel Grade D11 to BS EN 10111 yield >200 N/mm ² or <1.5mm thick steel to Grade DC01 to BS EN 10130 yield >200N/mm ² 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
Stainless Steel	Austenitic stainless steel to BS EN 10088 Grade 1-4401 is used which has 17% Chromium 12% Nickel & 2% Molybdenum analysis.
Powder Coated	thick steel Grade D11 to BS EN 10111 yield >200 N/mm ² or <1.5mm thick steel to Grade DC01 to BS EN 10130 yield >200N/mm ² 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.

It is possible for WESTPORT 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.

WARNING

- Cutting components on site may well impair their resistance to corrosion.
- Welding coated products may generate toxic fumes.
- Products must be stored in dry and well-ventilated conditions prior to installation.

DESIGN CONSIDERATIONS

DESIGN CONSIDERATIONS

CABLE TRAY & LADDER SYSTEMS

WESTPORT offers a comprehensive range of cable tray and ladder products conforming to BS EN 61537. To design a safe and economical system, it is necessary to consider all the loads applied to the system and establish the criteria by which it will be judge.

LOADS APPLIED TO THE SYSTEM

The weight of cables to be fixed on the system will provide the basic loading data. However, it is always advisable to consider that future system requirements can be expected and allow 20% for additions at a later date. The following should also be considered:

1. The capacity charts provided in this catalogue assume that loading is uniform, both along length and across width. If a point load is applied to the tray / ladder it will potentially have a significant effect and this must be quantified.
2. If components are incorporated in an exterior installation there may be other loading factors to consider, such as wind, ice and snow .

SAFE LOADING AND DEFLECTIONS

Cable tray & ladder acts as a structural load carrying beam when installed horizontally. The loads imposed and the type and location of supports will create a pattern of bending moment in the structure. Stress will be induced and deflections (vertical displacements) will be observed. A properly specified system will ensure that the stress does not exceed to that which is safe for the materials used in the components. BS EN 61537 specifies that published safe working loads can be increased by 1.7 times without system collapse.

A suitable installation will require choice of appropriate style of tray / ladder and the location of supports. Increasing the span (horizontal distance between supports) will always reduce safe load carrying capacity and increase deflection.

DESIGN CONSIDERATIONS

LOCATION OF SUPPORTS AND CONNECTIONS

Normally cable tray / ladder is connected together forming a continuous beam over several supports. A typical bending moment diagram shown on the previous page shows the following:

1. Bending moment is much larger in the end spans of the continuous beam than the intermediate spans; which will reduce the load carrying capacity in the end spans. If an installation requires full load carrying capacity along the whole length, than full capacity of the intermediate spans can be used if the end spans are reduced to $0.75L$ (length of intermediate spans).
2. Bending moment is zero at approximately $0.25L$ either side of the intermediate supports. These are therefore ideal places to locate connections between component lengths of cable tray/ladder. The installer should avoid placing connections in mid-span positions and at supports. These are positions of maximum bending moment.
3. The diagram shows a typical multi-span beam loading condition. If a loading condition occurs where there is only a single span loading condition it can be taken that the permissible load is reduced to 0.5 that shown for intermediate span in multi-span beams.
4. Only straight length beams are discussed above. When accessories (bends, tees, risers etc.) are involved in an installation they will require extra local support. It is always recommended to use fish plates in conjunction with connectors, particularly when cable trays of greater than 200mm are used. Where earth continuity is an important consideration in a cable tray or ladder system, bonding jumper leads should be used. Cable ladders runs exposed to wide ambient temperature & the variation should incorporate expansion connectors. The chart below illustrates suitable gap setting.

FOR STRAIGHT LENGTHS AND ACCESSORIES

Range / Width (W)	Thickness (T)	Side Height (H)
All dimensions are in mm		
50 to 150	1.0	15
225 to 300	1.2	15
450 to 600	1.5	20
750 to 900	2.0	20

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

Light duty straight flange cable trays are made in a standard length of 3 mtrs but can be produced in different lengths on request

Light duty straight flange cable tray accessories are made to standard radius of 300 mm but can be produced in 450 mm, 600mm and 900 mm as required

ORDER PATTERN

To select the required component, please specify the type, component, width, finish. Angles can be mentioned wherever necessary.

TYPE / COMPONENT / WIDTH / FINISH (without angle) LDT / COM / WIDTH / HDG

TYPE / COMPONENT / WIDTH / ANGLE / FINISH (with angle) LDT / COM / WIDTH / A / HDG EXA

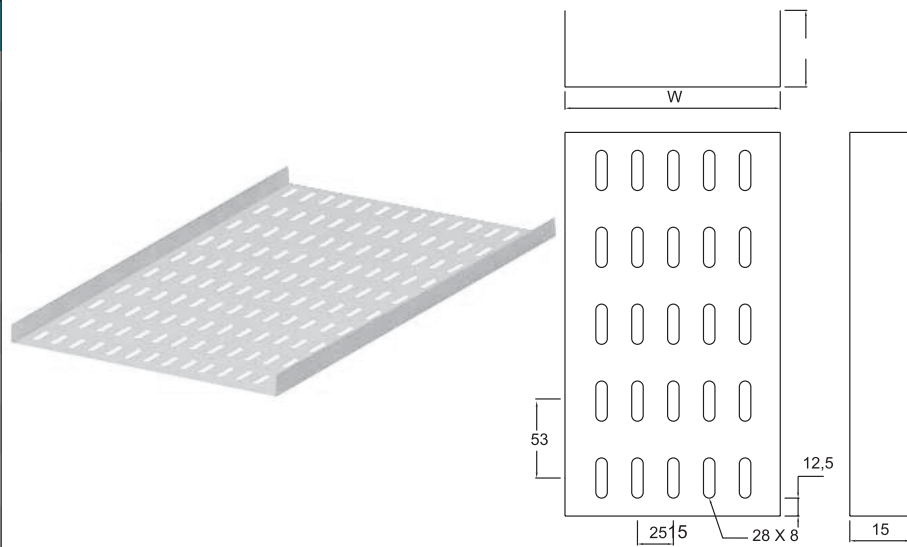
Covers for LDT are not shown in the manual but can be produced on request

Note: For special finishes consult our sales team, factory

For special sizes, gauges, flanges, consult our sales team, factory

LIGHT DUTY STRAIGHT FLANGE TRAY-(LDT)

PART REF
LDT / CT/ 50 / Finish
LDT / CT/ 75 / Finish
LDT / CT/ 100 / Finish
LDT / CT/ 150 / Finish
LDT / CT/ 225 / Finish
LDT / CT/ 300 / Finish
LDT / CT/ 450 / Finish
LDT / CT/ 600 / Finish
LDT / CT/ 750 / Finish
LDT / CT/ 900 / Finish

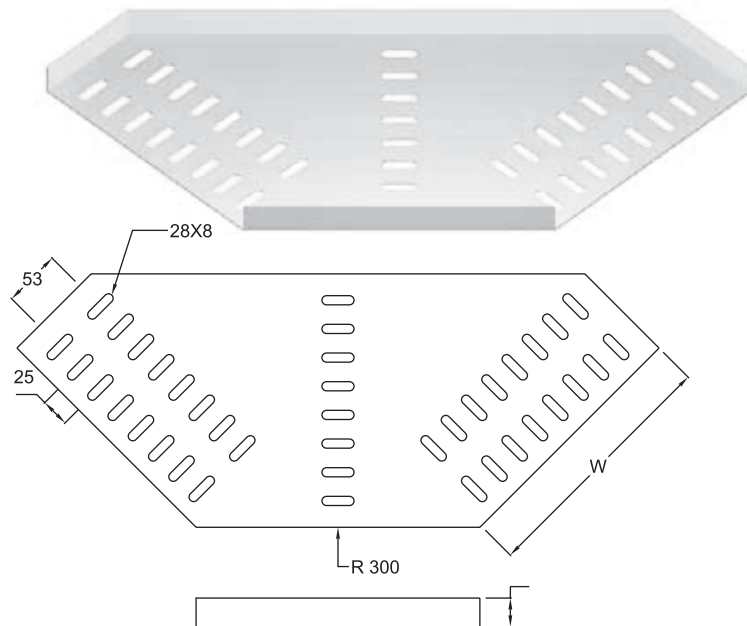


CONNECTORS¹⁵

LDT Cable trays and accessories are connected by fishplates. For fish plate details refer page 16 of the manual.

LDT - ELBOW HORIZONTAL - 30° / 45° / 60° / 90°

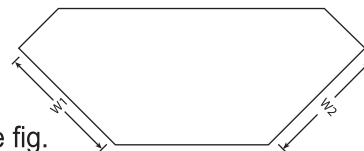
PART REF
LDT/ EH / 50 / A / Finish
LDT/ EH / 75 / A / Finish
LDT/ EH / 100 / A / Finish
LDT/ EH / 150 / A / Finish
LDT/ EH / 225 / A / Finish
LDT/ EH / 300 / A / Finish
LDT/ EH / 450 / A / Finish
LDT/ EH / 600 / A / Finish
LDT/ EH / 750 / A / Finish
LDT/ EH / 900 / A / Finish



LDT - UNEQUAL ELBOW HORIZONTAL - 30° / 45° / 60° / 90°

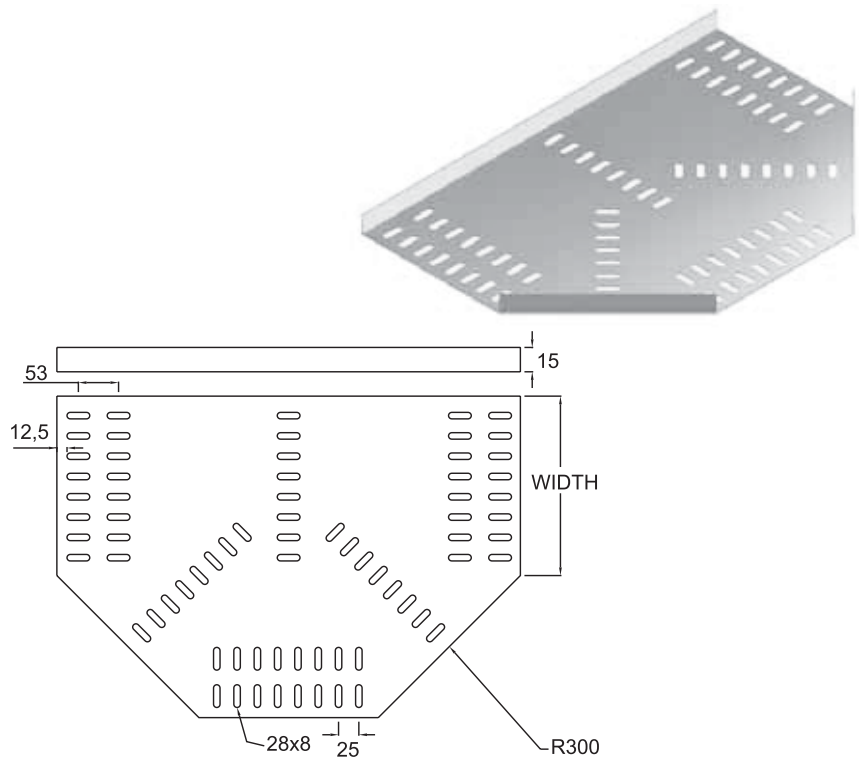
PART REF
LDT / UEH / W1/ W2 / A / Finish

For Unequal Elbow specify the widths as W1 & W2 as shown in the fig.



LDT - TEE HORIZONTAL

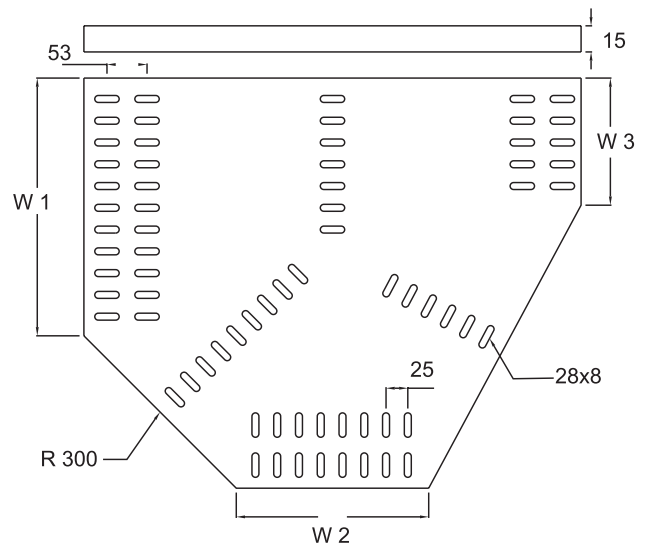
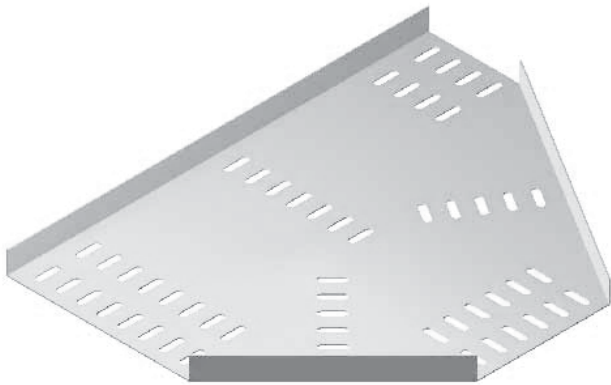
PART REF
LDT / TH / 50 / Finish
LDT / TH / 75 / Finish
LDT / TH / 100 / Finish
LDT / TH / 150 / Finish
LDT / TH / 225 / Finish
LDT / TH / 300 / Finish
LDT / TH / 450 / Finish
LDT / TH / 600 / Finish
LDT / TH / 750 / Finish
LDT / TH / 900 / Finish



For support system for the installation, please refer Metal strut framing system of this manual

LDT - UN EQUAL TEE

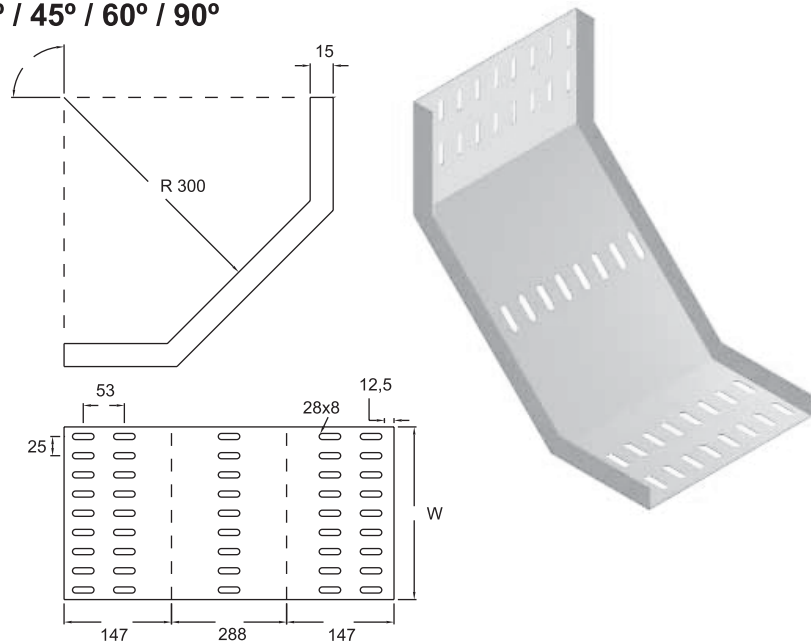
PART REF
LDT / UTH / W1 / W2 / W3 Finish



- For Unequal Tee, please specify widths in anti- clockwise direction as W1, W2, W3
- Thickness for Unequal Tee to be followed of the larger size. For details refer page 10.
- Bonding jumpers can be used for earthing connectivity. For details refer page 84

LDT - INTERNAL RISER - 30° / 45° / 60° / 90°

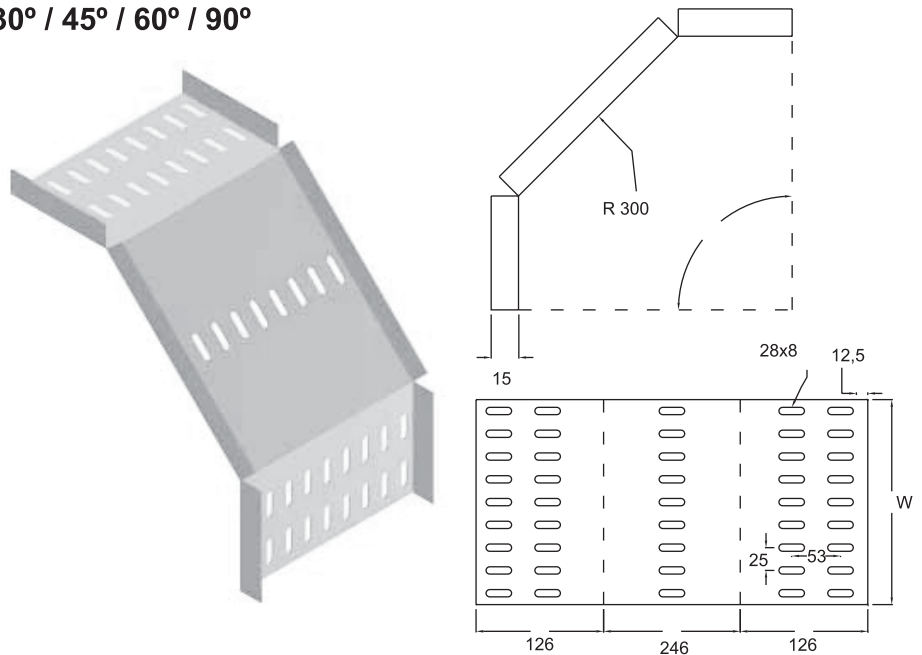
PART REF
LDT / IR / 50 / A / Finish
LDT / IR / 75 / A / Finish
LDT / IR / 100 / A / Finish
LDT / IR / 150 / A / Finish
LDT / IR / 225 / A / Finish
LDT / IR / 300 / A / Finish
LDT / IR / 450 / A / Finish
LDT / IR / 600 / A / Finish
LDT / IR / 750 / A / Finish
LDT / IR / 900 / A / Finish



- LDT cable tray accessories are connected by Fish Plates. For Fish Plate details refer page 16
- Bonding Jumpers are used for the Earthing Connectivity. For details refer page 84

LDT - EXTERNAL RISER - 30° / 45° / 60° / 90°

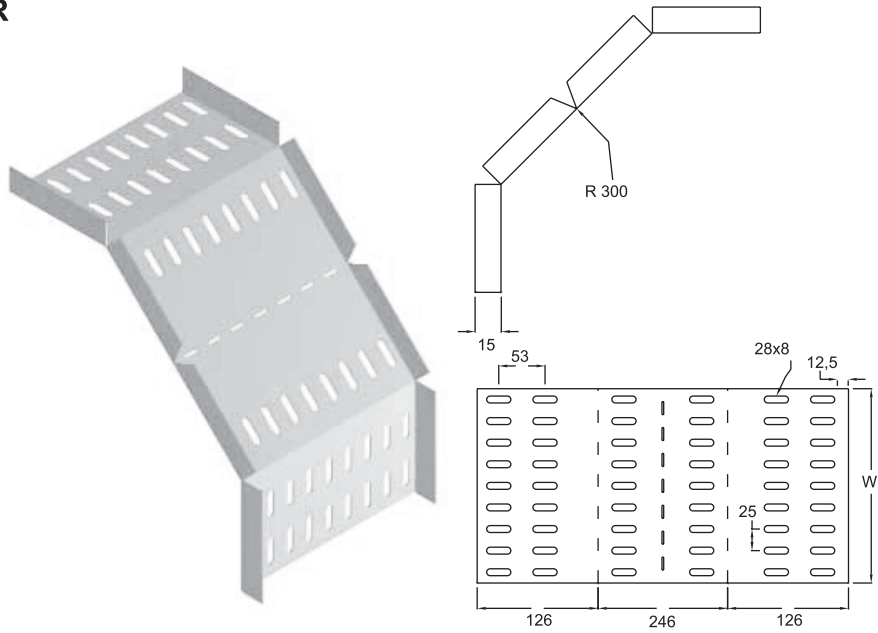
PART REF
LDT / ER / 50 / A / Finish
LDT / ER / 75 / A / Finish
LDT / ER / 100 / A / Finish
LDT / ER / 150 / A / Finish
LDT / ER / 225 / A / Finish
LDT / ER / 300 / A / Finish
LDT / ER / 450 / A / Finish
LDT / ER / 600 / A / Finish
LDT / ER / 750 / A / Finish
LDT / ER / 900 / A / Finish



- METAR Tray accessories are produced in single blanks and carry no welding. This design gives the component extra strength, rigidity and ease of installation.
- For special gauges, sizes or design, consult our sales team or factory.

LDT - ADJUSTABLE RISER

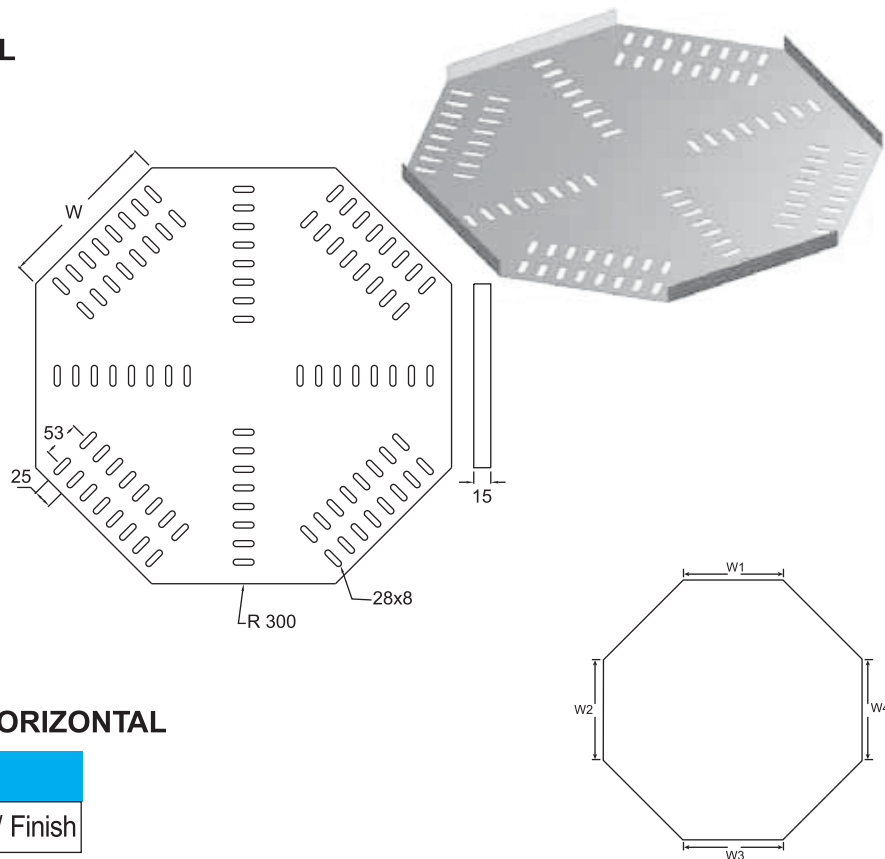
PART REF
LDT / AR / 50 / Finish
LDT / AR / 75 / Finish
LDT / AR / 100 / Finish
LDT / AR / 150 / Finish
LDT / AR / 225 / Finish
LDT / AR / 300 / Finish
LDT / AR / 450 / Finish
LDT / AR / 600 / Finish
LDT / AR / 750 / Finish
LDT / AR / 900 / Finish



Extra long risers can be produced on request and are specified by LDT / XLAR / Width / Finish. Contact the factory for details.

LDT - CROSS HORIZONTAL

PART REF
LDT / CH / 50 / Finish
LDT / CH / 75 / Finish
LDT / CH / 100 / Finish
LDT / CH / 150 / Finish
LDT / CH / 225 / Finish
LDT / CH / 300 / Finish
LDT / CH / 450 / Finish
LDT / CH / 600 / Finish
LDT / CH / 750 / Finish
LDT / CH / 900 / Finish



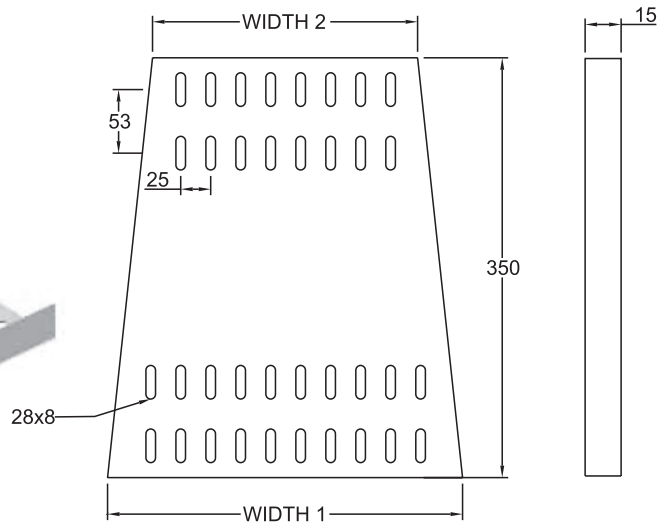
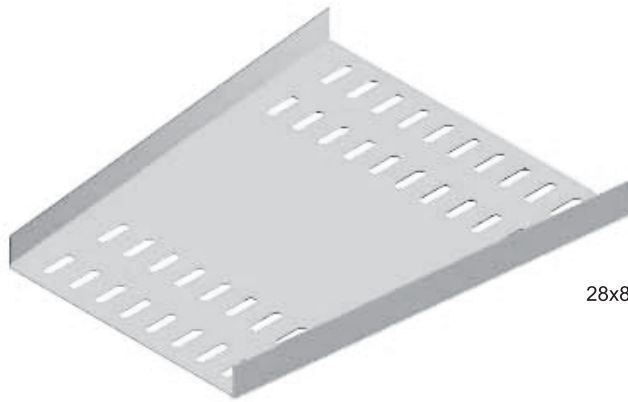
LDT - UNEQUAL CROSS HORIZONTAL

PART REF
LDT / UCH / W1/ W2/ W3/ W4 / Finish

- For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction as shown in the fig.
- Thickness for UCH to be followed of the larger size. For details refer page no. 10

LDT - REDUCER STRAIGHT

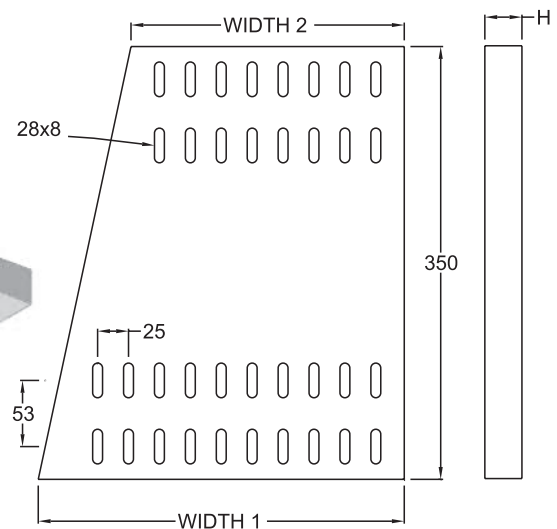
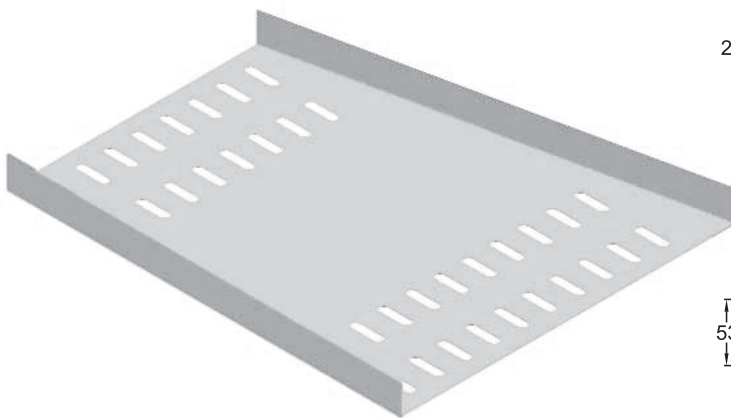
PART REF
LDT / RS / W1/ W2 / Finish



- Reducing Connectors can also be used for reduction depending on the site application.
- METAR Tray accessories are produced in single blanks and carry no welding. This design gives the component extra strength, rigidity and ease of installation.

LDT- REDUCER LEFT

PART REF
LDT / RL / W1 / W2 / Finish



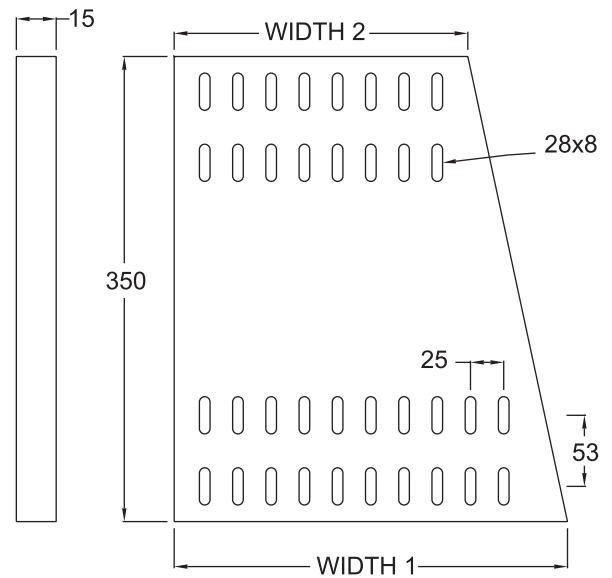
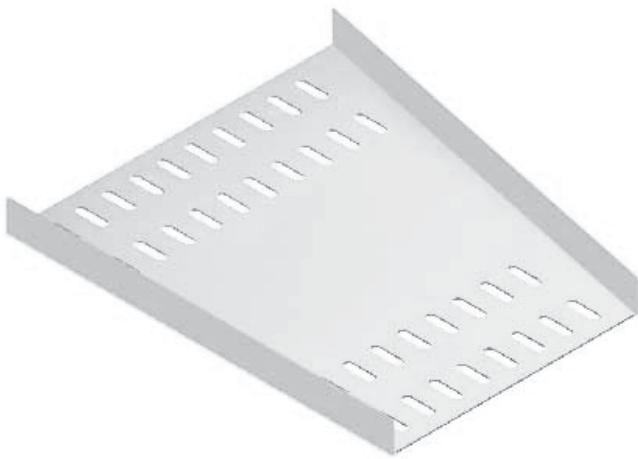
Reducer Left can be used where cable trays have the limitation of run on the right hand side

Note: Bonding Jumpers are used for the Earthing Connectivity.

LDT - REDUCER RIGHT

PART REF.

LDT / RR / W1 / W2 / Finish



Reducer Right can be used where cable trays have the limitation of run on the left hand side

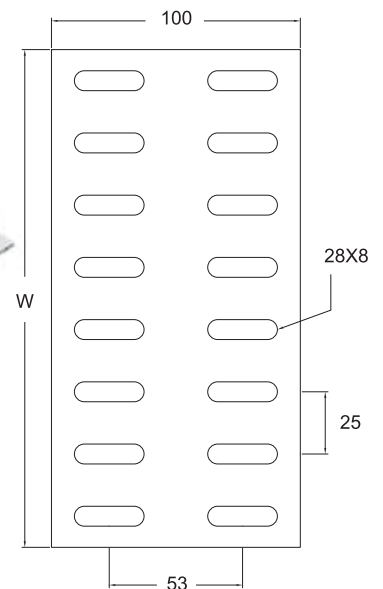
LDT- FISH PLATE

PART REF.

LDT/ FP / W / Finish

FISH PLATE

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

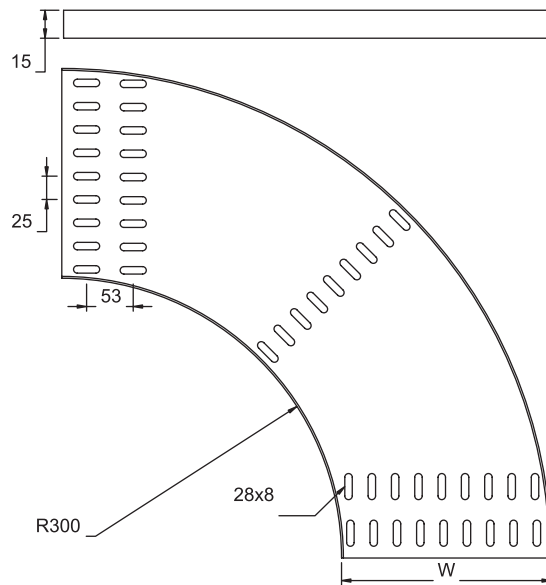


LDT cable tray & accessories are connected by Fish Plates.
Fish Plate is supplied with one set of M6 x 12 roofing bolts, nuts, washers.

Note: Bonding Jumpers are used for the Earthing Connectivity.

LDT - ELBOW HORIZONTAL - 30 ° / 45° / 60° / 90°

PART REF
LDT/ EHR / 50 / A / Finish
LDT/ EHR / 75 / A / Finish
LDT/ EHR / 100 / A / Finish
LDT/ EHR / 150 / A / Finish
LDT/ EHR / 225 / A / Finish
LDT/ EHR / 300 / A / Finish
LDT/ EHR / 450 / A / Finish
LDT/ EHR / 600 / A / Finish
LDT/ EHR / 750 / A / Finish
LDT/ EHR / 900 / A / Finish

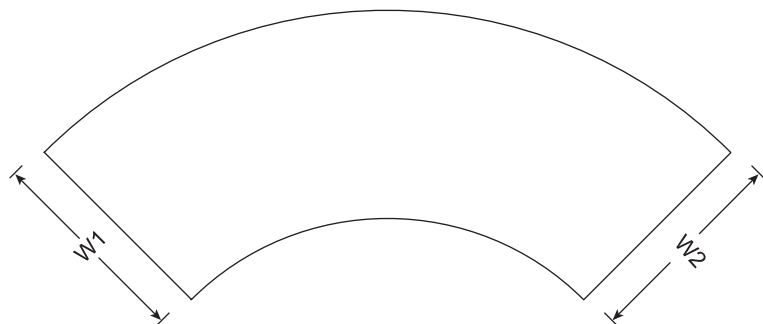


CONNECTORS

LDT Cable trays and accessories are connected by fishplates. For fish plate details refer page 16 of the manual. For details on thickness, width, finish.

LDT - UNEQUAL ELBOW HORIZONTAL - 30 ° / 45° / 60° / 90°

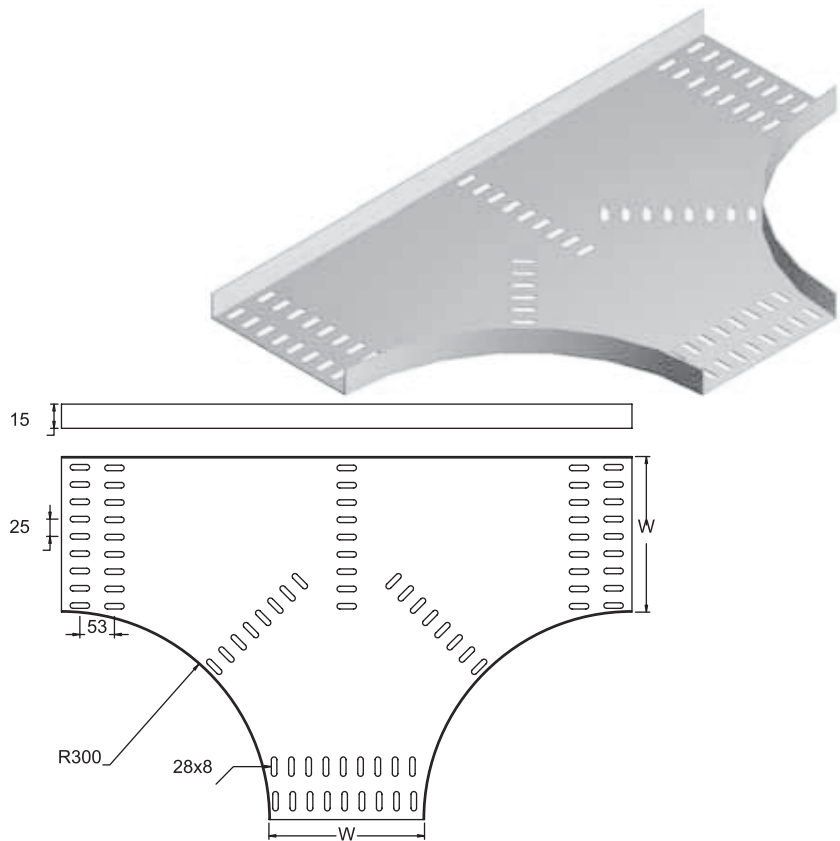
PART REF
LDT / UEHR / W1/ W2 / A / Finish



For Unequal Elbow specify the widths as W1 & W2 as shown in the fig.

LDT - TEE HORIZONTAL

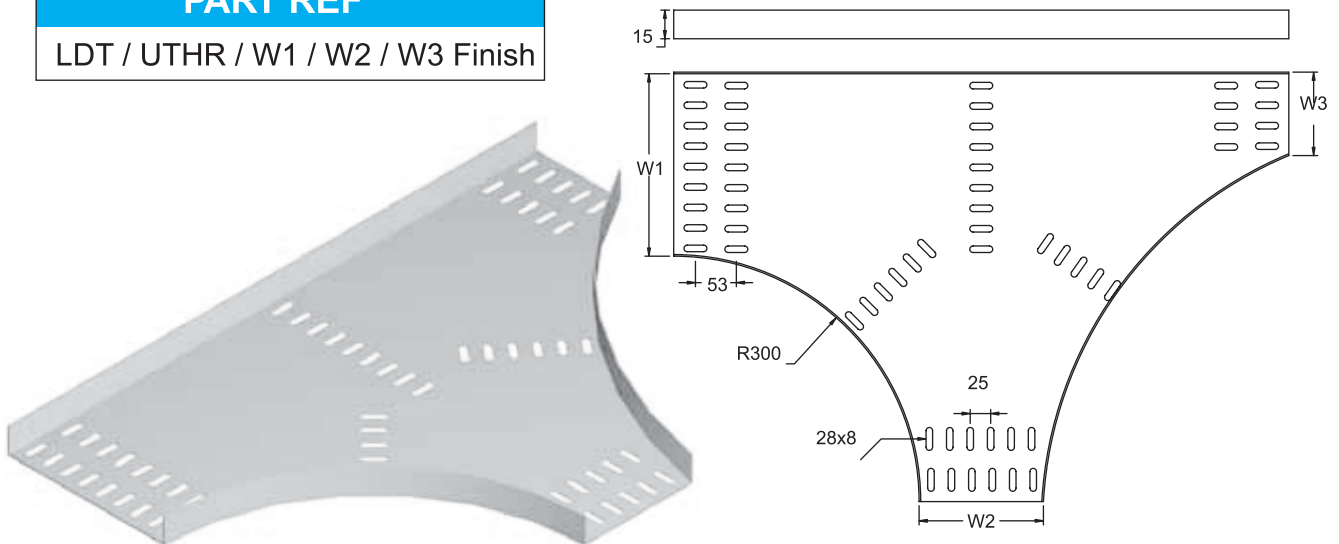
PART REF
LDT / THR / 50 / Finish
LDT / THR / 75 / Finish
LDT / THR / 100 / Finish
LDT / THR / 150 / Finish
LDT / THR / 225 / Finish
LDT / THR / 300 / Finish
LDT / THR / 450 / Finish
LDT / THR / 600 / Finish
LDT / THR / 750 / Finish
LDT / THR / 900 / Finish



- For support system for the installation, please refer Metal strut framing system of this manual
- Accessories can be joined by fish plates, for details refer page 16

LDT - UN EQUAL TEE

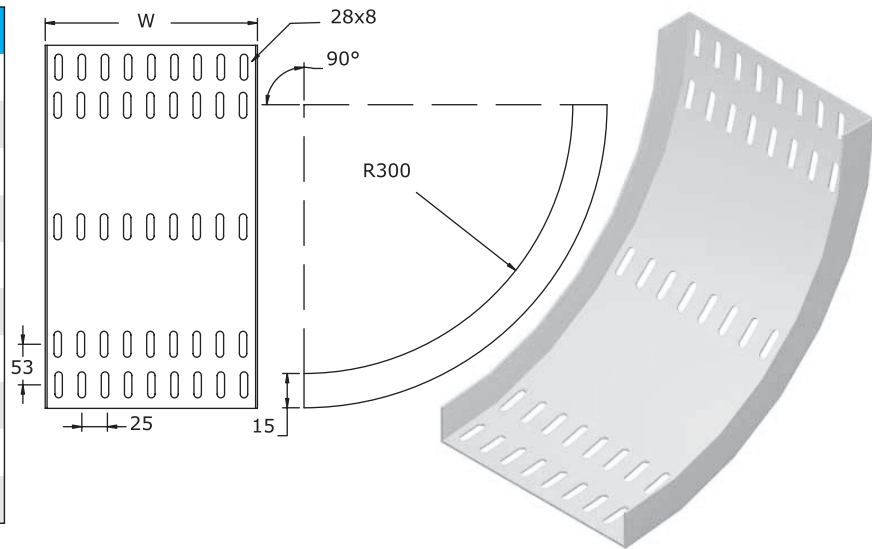
PART REF
LDT / UTHR / W1 / W2 / W3 Finish



- For Unequal Tee, please specify widths in anti- clockwise direction as W1, W2, W3
- Thickness for Unequal Tee to be followed of the larger size. For details refer page 10.
- Bonding jumpers can be used for earthing connectivity. For details refer page 84

LDT - INTERNAL RISER - 30 ° / 45° / 60° / 90°

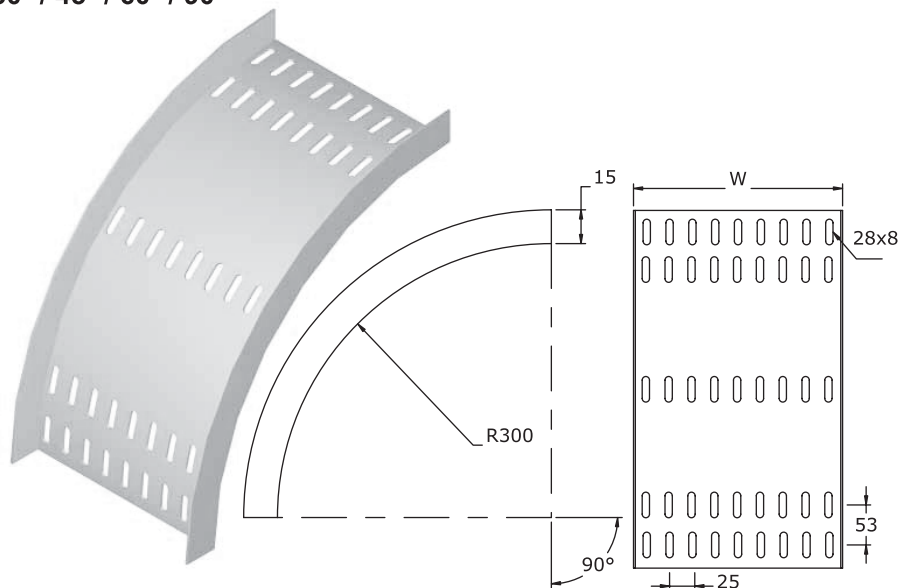
PART REF
LDT / IRR / 50 / A / Finish
LDT / IRR / 75 / A / Finish
LDT / IRR / 100 / A / Finish
LDT / IRR / 150 / A / Finish
LDT / IRR / 225 / A / Finish
LDT / IRR / 300 / A / Finish
LDT / IRR / 450 / A / Finish
LDT / IRR / 600 / A / Finish
LDT / IRR / 750 / A / Finish
LDT / IRR / 900 / A / Finish



- LDT cable tray accessories are connected by Fish Plates. For Fish Plate details refer page 16
- Bonding Jumpers are used for the Earthing Connectivity. For details refer page 84
- Adjustable riser can be produced on request and is specified by LDT / AR / Width / Finish. For details refer page 14

LDT - EXTERNAL RISER - 30° / 45° / 60° / 90°

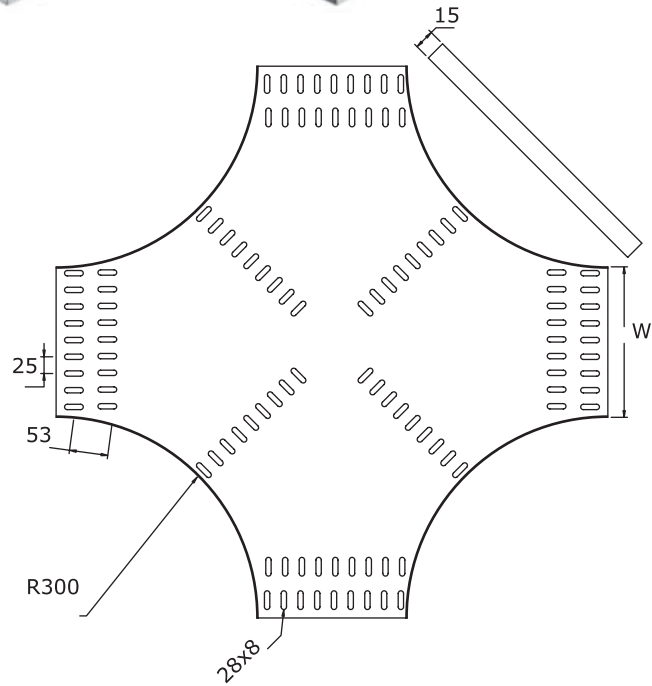
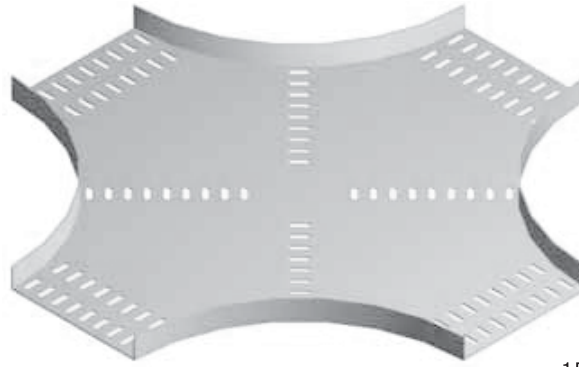
PART REF
LDT / ERR / 50 / A / Finish
LDT / ERR / 75 / A / Finish
LDT / ERR / 100 / A / Finish
LDT / ERR / 150 / A / Finish
LDT / ERR / 225 / A / Finish
LDT / ERR / 300 / A / Finish
LDT / ERR / 450 / A / Finish
LDT / ERR / 600 / A / Finish
LDT / ERR / 750 / A / Finish
LDT / ERR / 900 / A / Finish



- Extra long risers can be produced on request and are specified by LDT / XLAR / Width / Finish. Contact the factory for details.
- For special gauges, finishes and design consult our sales team.

LDT - CROSS HORIZONTAL

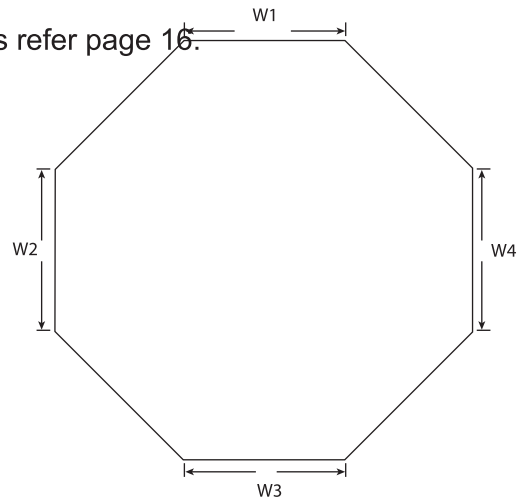
PART REF
LDT / CHR / 50 / Finish
LDT / CHR / 75 / Finish
LDT / CHR / 100 / Finish
LDT / CHR / 150 / Finish
LDT / CHR / 225 / Finish
LDT / CHR / 300 / Finish
LDT / CHR / 450 / Finish
LDT / CHR / 600 / Finish
LDT / CHR / 750 / Finish
LDT / CHR / 900 / Finish



- For LDT reducer details refer page 15.
- LDT Accessories are joined by fish plates. For details refer page 16.

LDT - UNEQUAL CROSS HORIZONTAL

PART REF
LDT / UCHR / W1/ W2 / W3/ W4 / Finish



- For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction as shown in the fig.
- Thickness for UCHR to be followed of the larger size. For details refer page no. 10

WEIGHT OF THE COMPONENTS

LDT - CABLE TRAY

WIDTH(mm)	WT. (Kgs.)
50	1.802
75	2.321
100	2.851
150	3.911
225	6.583
300	8.480
450	15.730
600	20.447
750	23.623
900	39.951

LDT - ELBOW HORIZONTAL

WIDTH (mm)	WEIGHT IN KGS.	
	45°	90°
50	0.085	0.170
75	0.127	0.254
100	0.170	0.329
150	0.265	0.509
225	0.509	1.007
300	0.753	1.505
450	1.760	3.519
600	2.873	5.554
750	5.385	10.770
900	7.367	14.723

LDT - EXTERNAL RISER

WIDTH (mm)	WEIGHT IN KGS.	
	45°	90°
50	0.138	0.276
75	0.180	0.360
100	0.307	0.498
150	0.350	0.689
225	0.657	1.166
300	0.753	1.505
450	1.410	2.809
600	1.834	3.657
750	3.010	6.021
900	3.583	7.155

LDT - INTERNAL RISER

WIDTH (mm)	WEIGHT IN KGS.	
	45°	90°
50	0.148	0.297
75	0.212	0.392
100	0.276	0.541
150	0.360	0.742
225	0.636	1.272
300	0.827	1.643
450	1.526	3.053
600	1.993	3.975
750	3.562	6.583
900	3.911	7.812

LDT - TEE HORIZONTAL

WIDTH(mm)	WT. (Kgs.)
50	0.424
75	0.594
100	0.816
150	1.113
225	1.961
300	2.703
450	5.724
600	8.575
750	17.214
900	21.126

LDT - CROSS HORIZONTAL

WIDTH(mm)	WT. (Kgs.)
50	0.636
75	0.795
100	1.198
150	1.558
225	2.586
300	3.434
450	6.901
600	9.996
750	19.907
900	23.829

FOR STRAIGHT LENGTHS AND ACCESSORIES

Range / Width (W)	Thickness (T)	Side Height (H)
All dimensions are in mm		
50 to 150	1.0	35
225 to 300	1.2	35
450 to 600	1.5	35
750 to 900	2.0	35

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

Heavy duty straight flange cable trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request

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

Accessory covers and clamp details have been provided at the end of cable tray chapter.

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

ORDER PATTERN

To select the required component, please specify the type, component, width, finish. Angles can be mentioned wherever necessary.

EXAMPLE:

TYPE / COMPONENT / WIDTH / FINISH (without angle) PHDT / COM / WIDTH / HDG
 TYPE / COMPONENT / WIDTH / ANGLE / FINISH (with angle) PHDT / COM / WIDTH / A / HDG

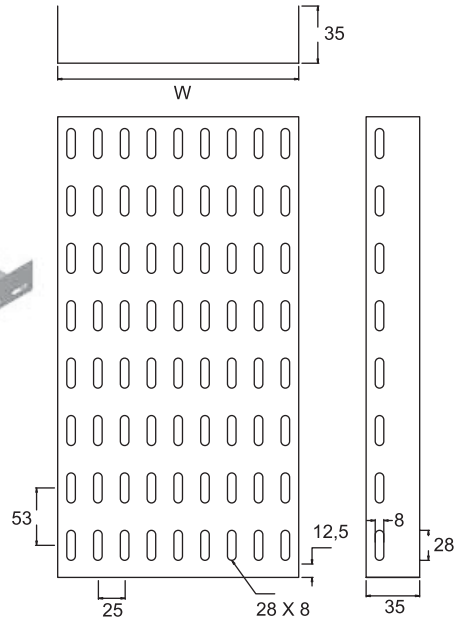
Note

For special finishes consult our sales team, factory

For special sizes, gauges, flanges, consult our sales team, factory

HEAVY DUTY STRAIGHT FLANGE TRAY - (PHDT)

PART REF
MHDT / CT / 50 / Finish
MHDT / CT / 75 / Finish
MHDT / CT / 100 / Finish
MHDT / CT / 150 / Finish
MHDT / CT / 225 / Finish
MHDT / CT / 300 / Finish
MHDT / CT / 450 / Finish
MHDT / CT / 600 / Finish
MHDT / CT / 750 / Finish
MHDT / CT / 900 / Finish

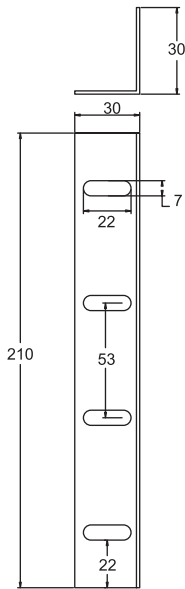


CONNECTORS

PHDT CableTrays are joined together by straight & internal connectors. Connectors are supplied in pairs with a set of M6 x 12 roofing bolts, nuts and washers. Load graphs provided in the manual are based on PHDT / SC .To be ordered saperately.

STRAIGHT CONNECTOR

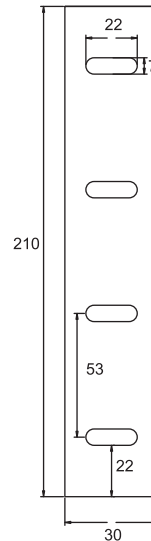
PART REF
MHDT / SC / Width / Finish



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

INTERNAL CONNECTOR

PART REF
MHDT / IC / Width / Finish

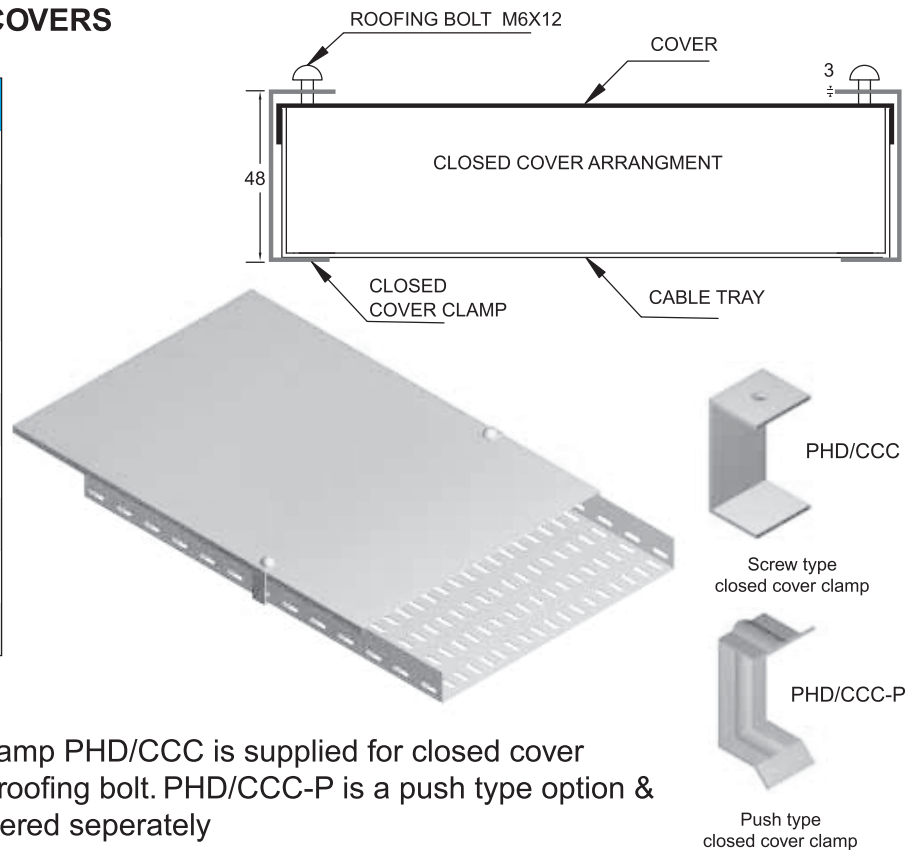


Width (mm)	Thickness (mm)
50 to 150	2.0

Internal Connectors are produced for the widths ranging from 50 to 150 mm only.

CABLE TRAY CLOSED COVERS

PART REF
MHDT / CTCC / 50 / Finish
MHDT / CTCC / 75 / Finish
MHDT / CTCC / 100 / Finish
MHDT / CTCC / 150 / Finish
MHDT / CTCC / 225 / Finish
MHDT / CTCC / 300 / Finish
MHDT / CTCC / 450 / Finish
MHDT / CTCC / 600 / Finish
MHDT / CTCC / 750 / Finish
MHDT / CTCC / 900 / Finish

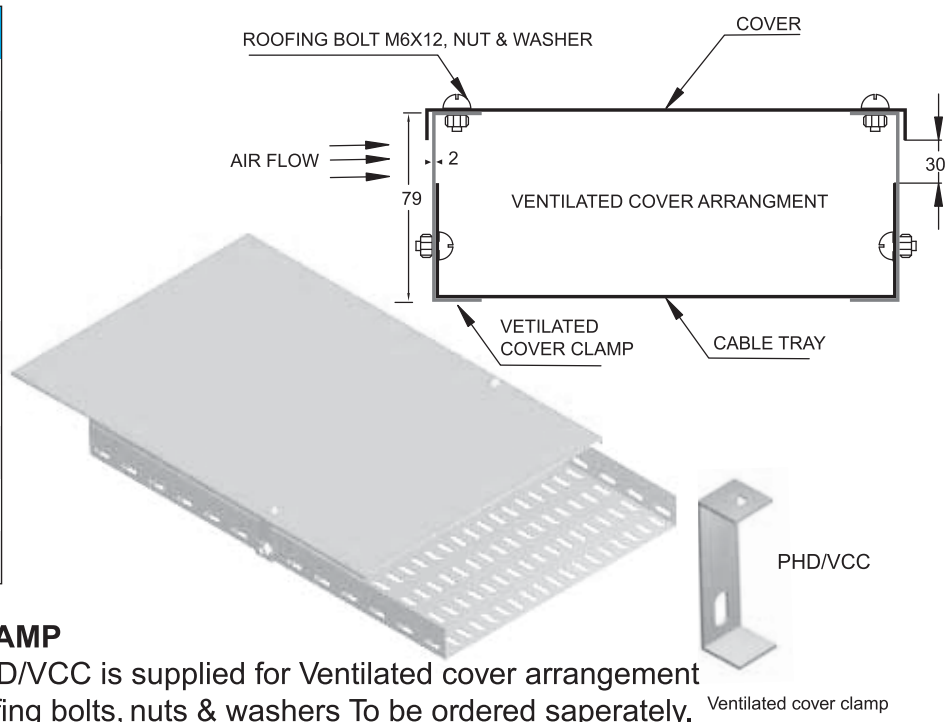


CLOSED COVER CLAMP

Screw type closed cover clamp PHD/CCC is supplied for closed cover arrangement with M6 x 12 roofing bolt. PHD/CCC-P is a push type option & requires no bolts. To be ordered seperately

CABLE TRAY VENTILATED COVERS

PART REF
MHDT / CTVC / 50 / Finish
MHDT / CTVC / 75 / Finish
MHDT / CTVC / 100 / Finish
MHDT / CTVC / 150 / Finish
MHDT / CTVC / 225 / Finish
MHDT / CTVC / 300 / Finish
MHDT / CTVC / 450 / Finish
MHDT / CTVC / 600 / Finish
MHDT / CTVC / 750 / Finish
MHDT / CTVC / 900 / Finish

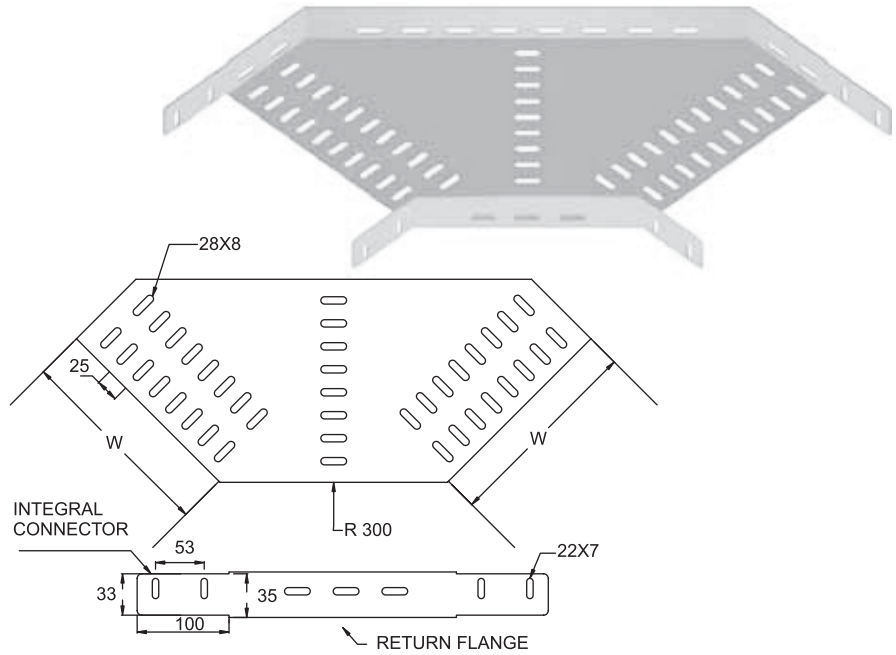


VENTILATED COVER CLAMP

Ventilated cover clamp MHD/VCC is supplied for Ventilated cover arrangement with the set of M6 x 12 roofing bolts, nuts & washers To be ordered saperately.

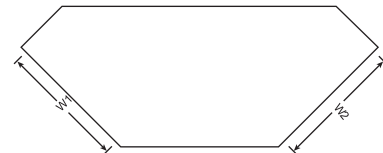
PHDT - ELBOW HORIZONTAL 30 ° / 45° / 60° / 90°

PART REF
MHDT / EH / 50 / A / Finish
MHDT / EH / 75 / A / Finish
MHDT / EH / 100 / A / Finish
MHDT / EH / 150 / A / Finish
MHDT / EH / 225 / A / Finish
MHDT / EH / 300 / A / Finish
MHDT / EH / 450 / A / Finish
MHDT / EH / 600 / A / Finish
MHDT / EH / 750 / A / Finish
MHDT / EH / 900 / A / Finish



PHDT UNEQUAL ELBOW - 30 ° / 45° / 60° / 90°

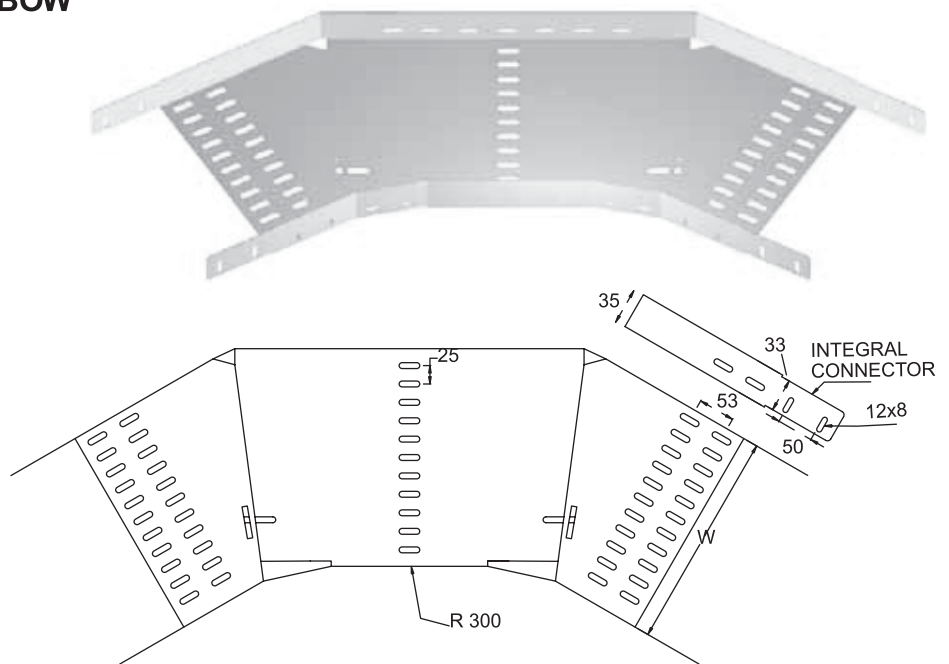
PART REF
MHDT / UEH / W1/ W2 / A / Finish



- For Unequal Elbow specify the widths as W1 & W2 as shown in the fig.
- Thickness for UEH to be followed of the larger size

PHDT - ADJUSTABLE ELBOW

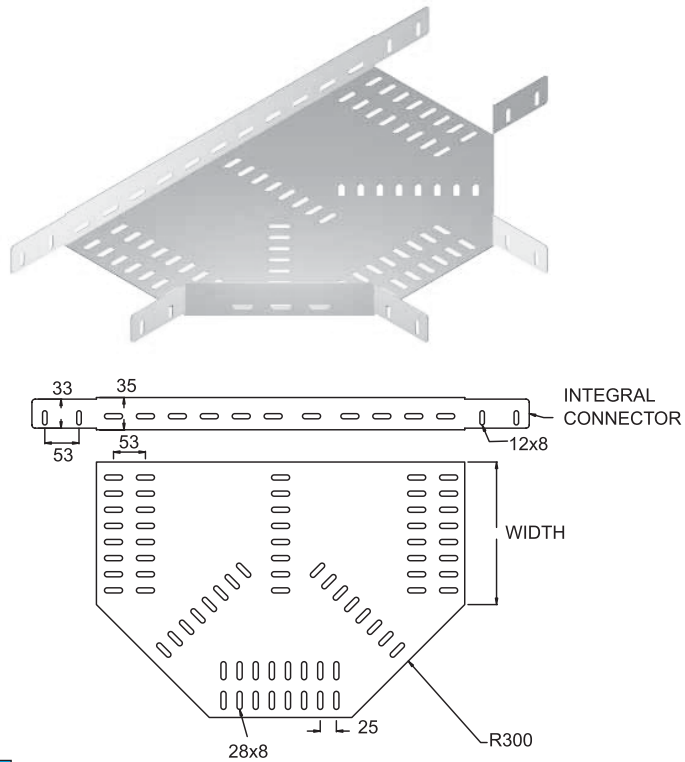
PART REF
MHDT / AEH / 50 / Finish
MHDT / AEH / 75 / Finish
MHDT / AEH / 100 / Finish
MHDT / AEH / 150 / Finish
MHDT / AEH / 225 / Finish
MHDT / AEH / 300 / Finish
MHDT / AEH / 450 / Finish
MHDT / AEH / 600 / Finish
MHDT / AEH / 750 / Finish
MHDT / AEH / 900 / Finish



- Adjustable Elbow can be fixed to desired angles depending on the site conditions.

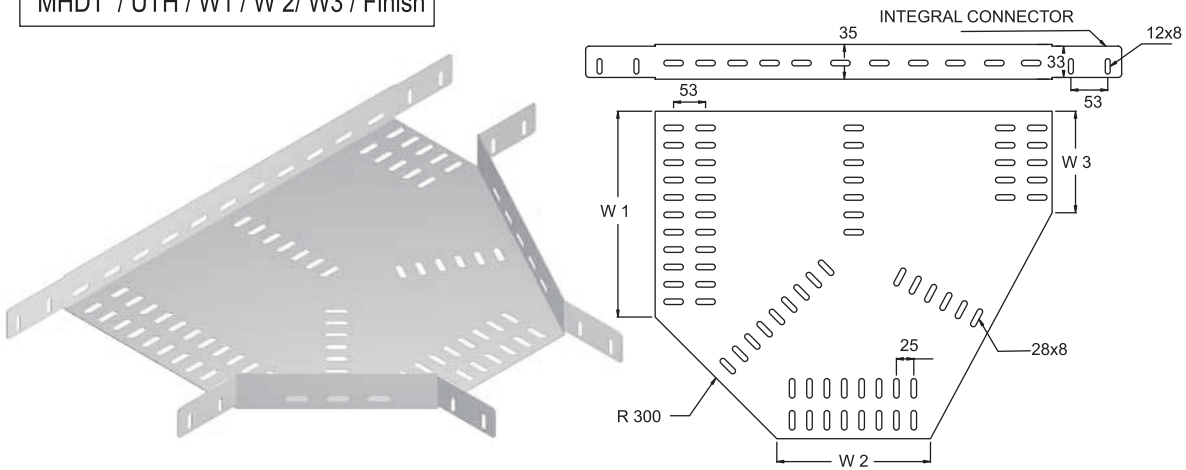
PHDT - TEE HORIZONTAL

PART REF
MHDT / TH / 50 / Finish
MHDT / TH / 75 / Finish
MHDT / TH / 100 / Finish
MHDT / TH / 150 / Finish
MHDT / TH / 225 / Finish
MHDT / TH / 300 / Finish
MHDT / TH / 450 / Finish
MHDT / TH / 600 / Finish
MHDT / TH / 750 / Finish
MHDT / TH / 900 / Finish



PHDT - UN EQUAL TEE

PART REF
MHDT / UTH / W1 / W2 / W3 / Finish



- For Unequal Tee specify widths W1, W2, W3 in anti clockwise direction.
- Thickness for Unequal Tee to be followed of the larger size

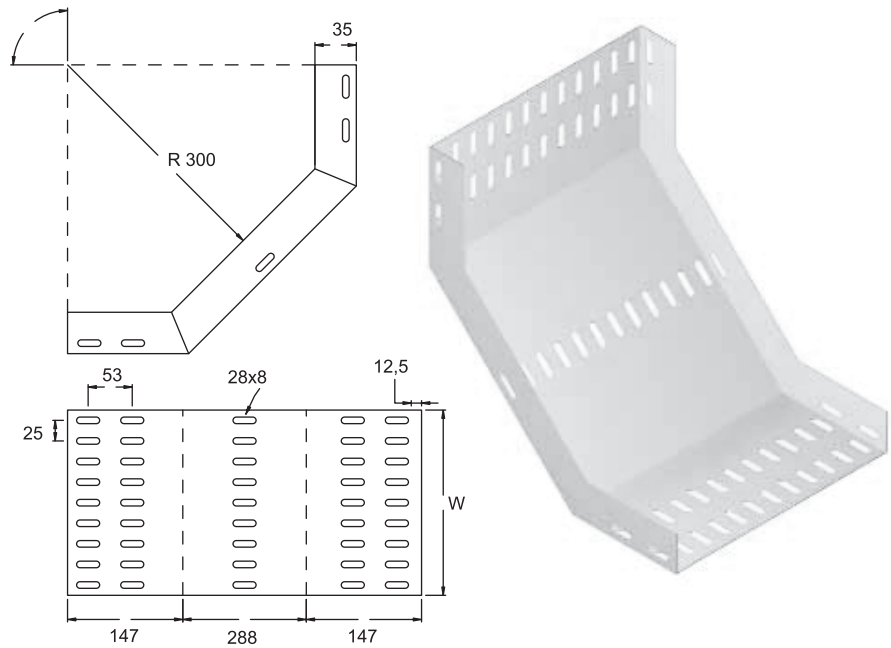
Note:

METAR - Tray accessories are produced in a single piece and carry no welding. This design gives the component extra strength, rigidity and ease of installation.

Bonding Jumpers are used for the Earthing Connectivity.

MHDT - INTERNAL RISER - 30° / 45° / 60° / 90°

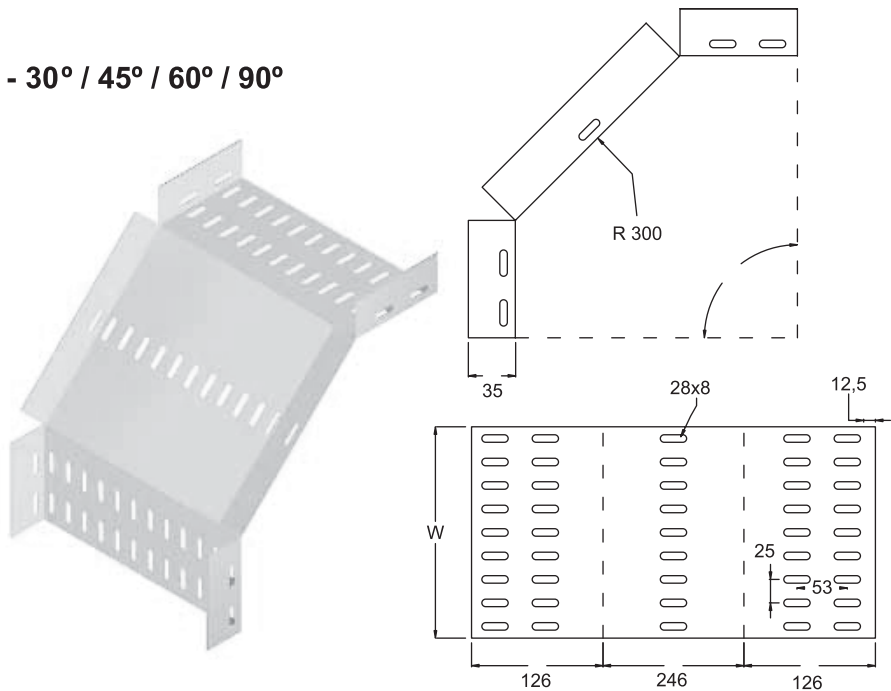
PART REF
MHDT / IR / 50 / A / Finish
MHDT / IR / 75 / A / Finish
MHDT / IR / 100 / A / Finish
MHDT / IR / 150 / A / Finish
MHDT / IR / 225 / A / Finish
MHDT / IR / 300 / A / Finish
MHDT / IR / 450 / A / Finish
MHDT / IR / 600 / A / Finish
MHDT / IR / 750 / A / Finish
MHDT / IR / 900 / A / Finish



Risers are joined to MHD Trays by straight connectors.

MHDT - EXTERNAL RISER - 30° / 45° / 60° / 90°

PART REF
MHDT / ER / 50 / A / Finish
MHDT / ER / 75 / A / Finish
MHDT / ER / 100 / A / Finish
MHDT / ER / 150 / A / Finish
MHDT / ER / 225 / A / Finish
MHDT / ER / 300 / A / Finish
MHDT / ER / 450 / A / Finish
MHDT / ER / 600 / A / Finish
MHDT / ER / 750 / A / Finish
MHDT / ER / 900 / A / Finish

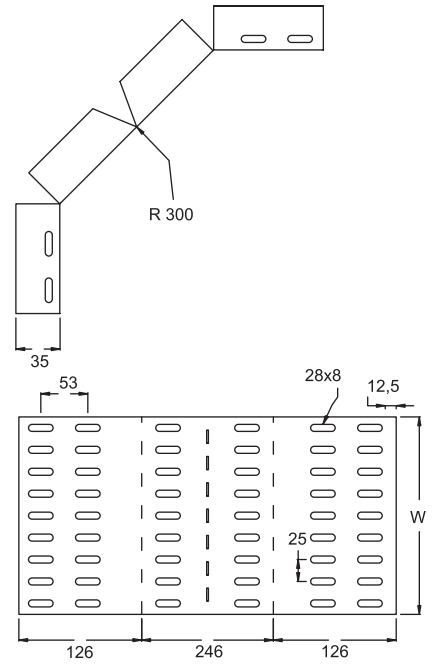
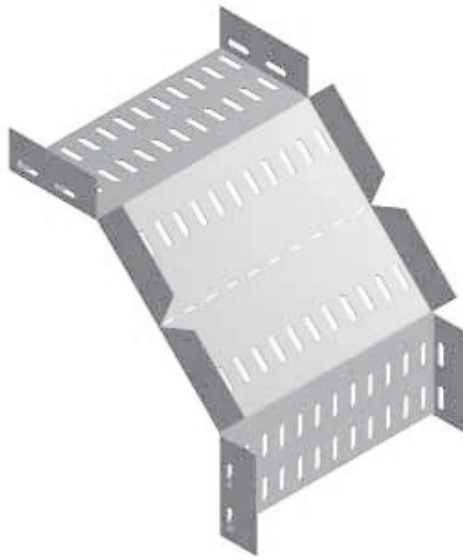


Note:

- Fish Plates are recommended for the trays & accessories above 200mm widths for better load bearing capacity
- Bonding Jumpers are used for the Earthing Connectivity.
- For Accessory Cover details
- For special gauges, sizes or design, consult our sales team or factory.

PHDT - ADJUSTABLE RISER

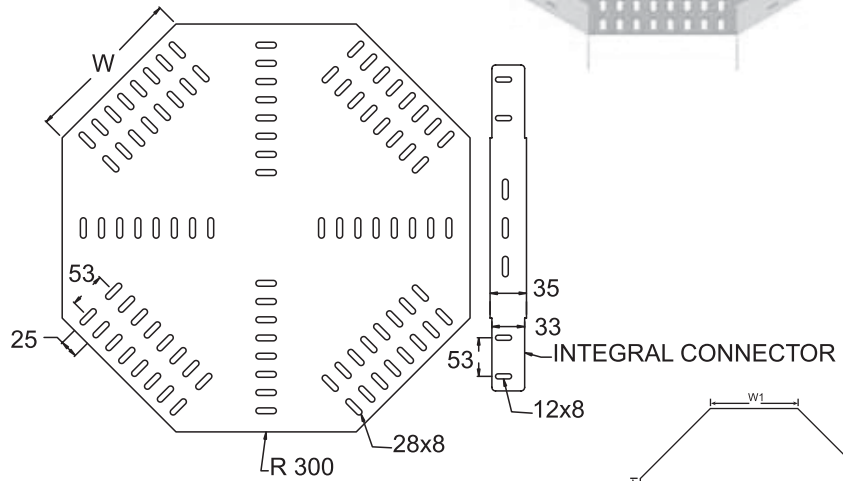
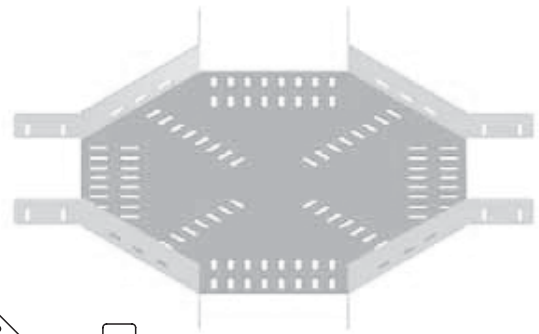
PART REF
MHDT / AR / 50 / Finish
MHDT / AR / 75 / Finish
MHDT / AR / 100 / Finish
MHDT / AR / 150 / Finish
MHDT / AR / 225 / Finish
MHDT / AR / 300 / Finish
MHDT / AR / 450 / Finish
MHDT / AR / 600 / Finish
MHDT / AR / 750 / Finish
MHDT / AR / 900 / Finish



Extra long Adjustable Riser can be produced on request and is specified by MHDT / XLAR / Width / Finish Contact factory for details.

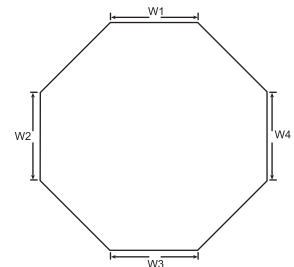
PHDT - CROSS HORIZONTAL

PART REF
MHDT / CH / 50 / Finish
MHDT / CH / 75 / Finish
MHDT / CH / 100 / Finish
MHDT / CH / 150 / Finish
MHDT / CH / 225 / Finish
MHDT / CH / 300 / Finish
MHDT / CH / 450 / Finish
MHDT / CH / 600 / Finish
MHDT / CH / 750 / Finish
MHDT / CH / 900 / Finish



LDT - UNEQUAL CROSS HORIZONTAL

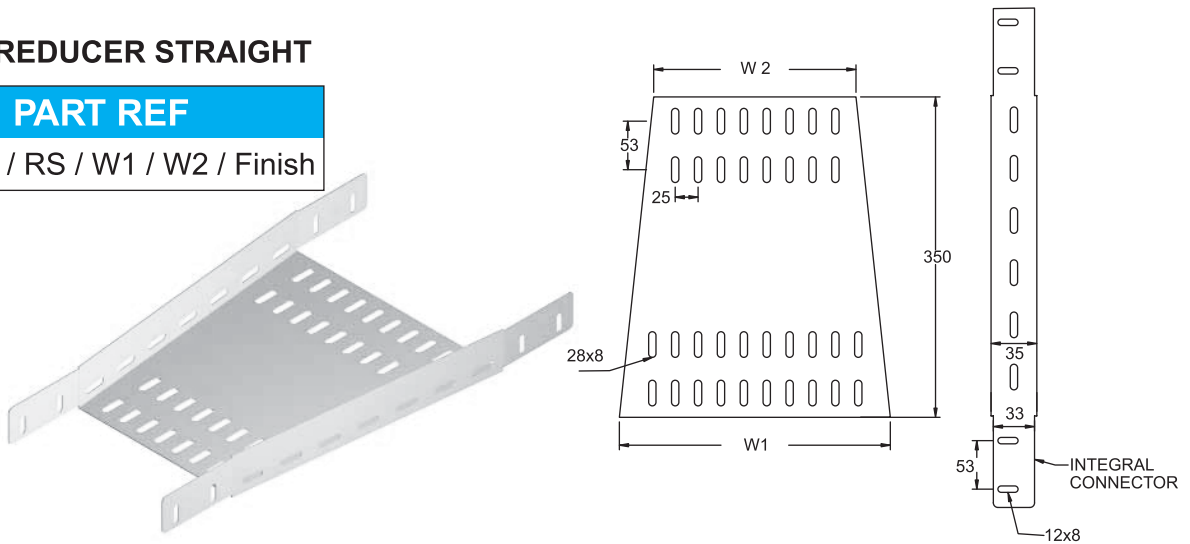
PART REF
LDT/UCH / W1/W2 /W3/W4 / Finish



- For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction as shown in the fig.
- Thickness for Unequal Cross to be followed of the larger size.

MHDT - REDUCER STRAIGHT

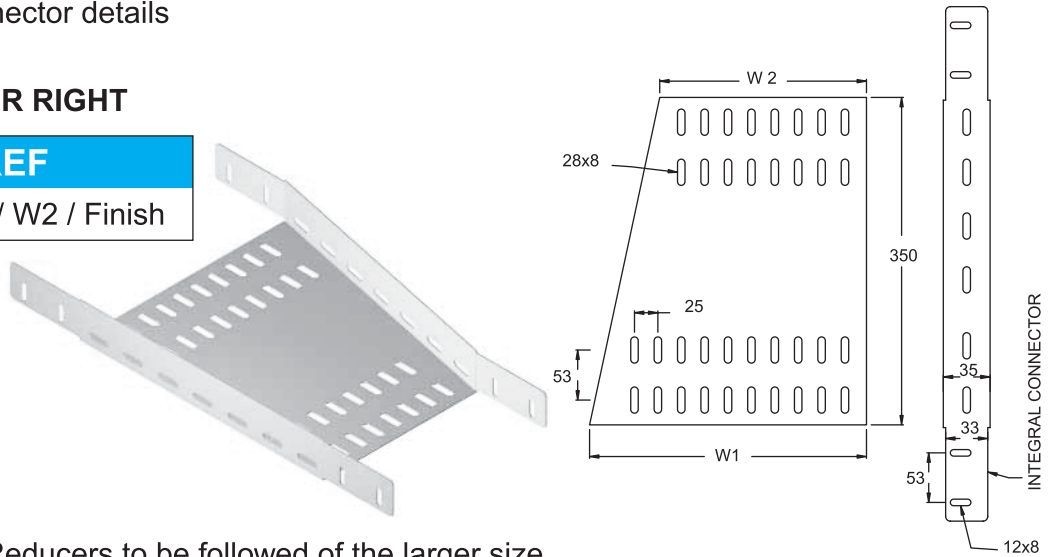
PART REF
MHDT / RS / W1 / W2 / Finish



Reducing Connectors can also be used for reduction, depending on the site application.
For Reducing Connector details

MHDT - REDUCER RIGHT

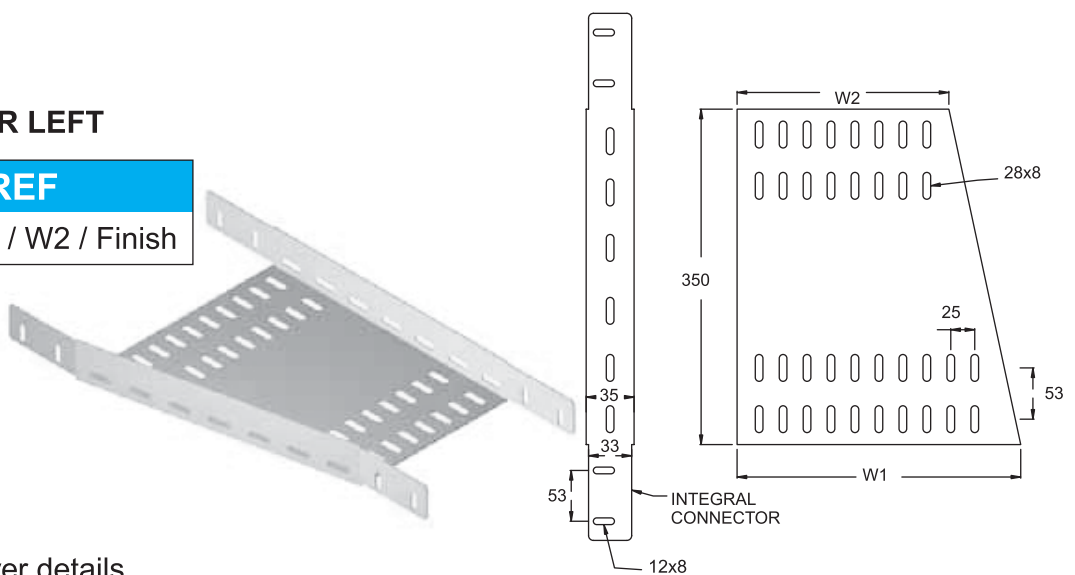
PART REF
MHDT / RR / W1 / W2 / Finish



Thickness for the Reducers to be followed of the larger size.

MHDT- REDUCER LEFT

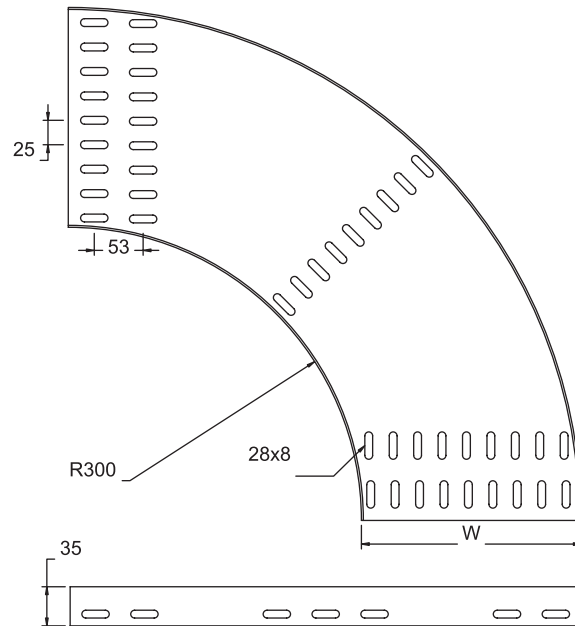
PART REF
MHDT / RL / W1 / W2 / Finish



For Accessory Cover details

MHDT - ELBOW HORIZONTAL 30° / 45° / 60° / 90°

PART REF
MHDT / EHR / 50 / A / Finish
MHDT / EHR / 75 / A / Finish
MHDT / EHR / 100 / A / Finish
MHDT / EHR / 150 / A / Finish
MHDT / EHR / 225 / A / Finish
MHDT / EHR / 300 / A / Finish
MHDT / EHR / 450 / A / Finish
MHDT / EHR / 600 / A / Finish
MHDT / EHR / 750 / A / Finish
MHDT / EHR / 900 / A / Finish

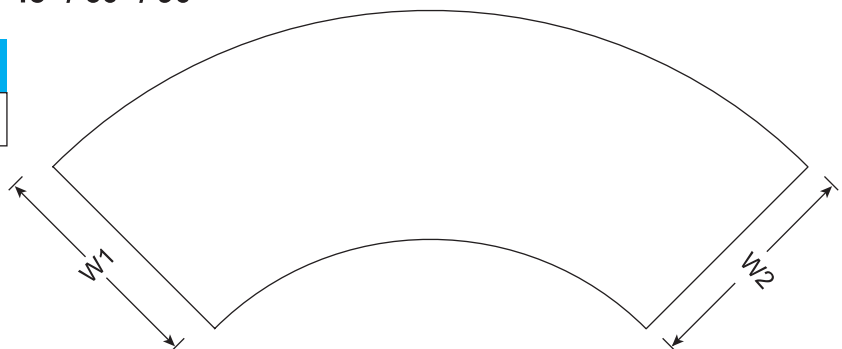


- For details of thickness, width and finishes

- Adjustable elbows are also produced and are referred by MHDT / AEH / Width / Finish,
- Round radial accessories cover can be produced on request.

MHDT UNEQUAL ELBOW - 30° / 45° / 60° / 90°

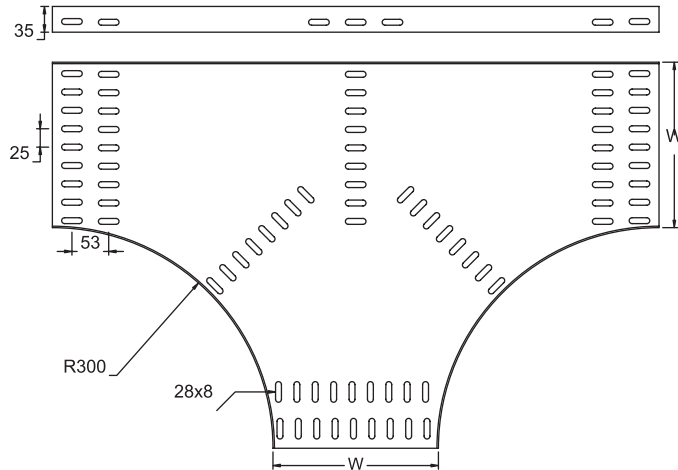
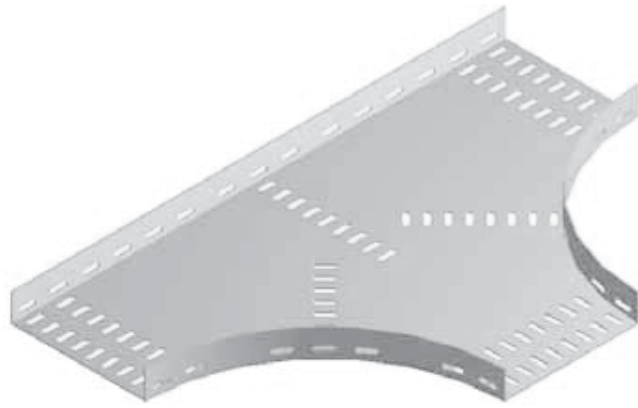
PART REF
MHDT / UEHR / W1 / W2 / A / Finish



- For Unequal Elbow specify the widths as W1 & W2 as shown in the fig.
- Thickness for UEHR to be followed of the larger size
- MHDT Round radial accessories can be joined by connectors.

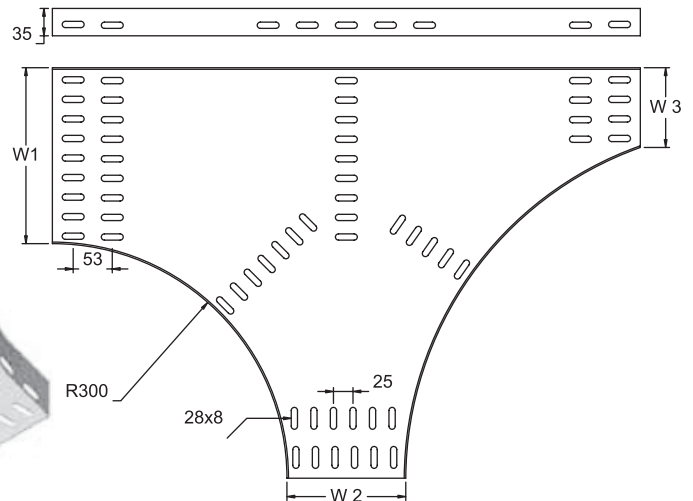
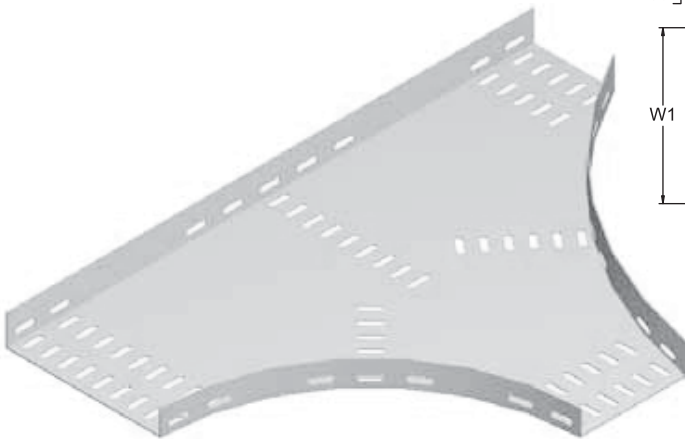
MHDT- TEE HORIZONTAL

PART REF
MHDT / THR / 50 / Finish
MHDT / THR / 75 / Finish
MHDT / THR / 100 / Finish
MHDT / THR / 150 / Finish
MHDT / THR / 225 / Finish
MHDT / THR / 300 / Finish
MHDT / THR / 450 / Finish
MHDT / THR / 600 / Finish
MHDT / THR / 750 / Finish
MHDT / THR / 900 / Finish



MHDT - UN EQUAL TEE

PART REF
MHDT / UTHR / W1 / W2 / W3 / Finish



- For Unequal Tee specify widths W1, W2, W3 in anti clockwise direction.
- Thickness for Unequal Tee to be followed of the larger size refer

Note:

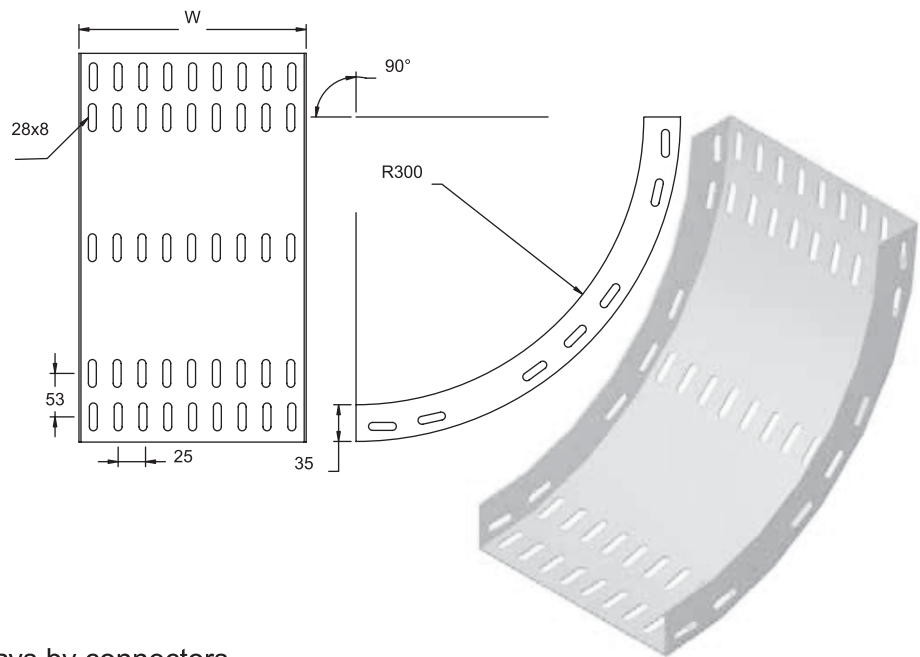
METAR - Round Radial Accessories can be joined by connectors.

Bonding Jumpers are used for the Earthing Connectivity.

Round Radial Accessory Cover can be produced on request.

MHDT - INTERNAL RISER - 30 ° / 45° / 60° / 90°

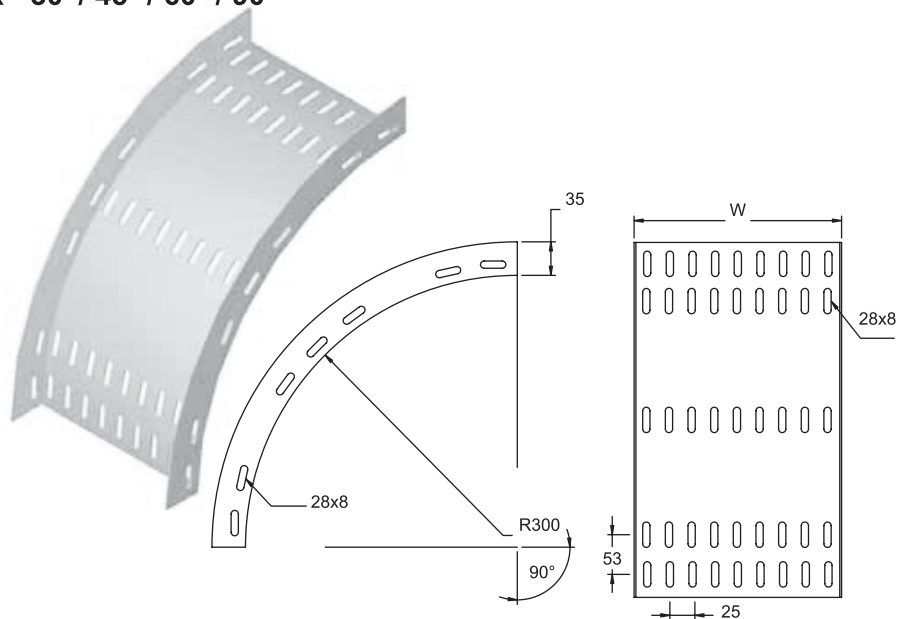
PART REF
MHDT / IRR / 50 / A / Finish
MHDT / IRR / 75 / A / Finish
MHDT / IRR / 100 / A / Finish
MHDT / IRR / 150 / A / Finish
MHDT / IRR / 225 / A / Finish
MHDT / IRR / 300 / A / Finish
MHDT / IRR / 450 / A / Finish
MHDT / IRR / 600 / A / Finish
MHDT / IRR / 750 / A / Finish
MHDT / IRR / 900 / A / Finish



- Risers are joined to MHD Trays by connectors.
- Adjustable risers are produced on request and is specified by PHDT / AR / Width / Finish.
- Extra long adjustable risers can be produced on request and is specified by PHDT / XLAR / Width / Finish

MHDT - EXTERNAL RISER - 30° / 45° / 60° / 90°

PART REF
MHDT / ERR / 50 / A / Finish
MHDT / ERR / 75 / A / Finish
MHDT / ERR / 100 / A / Finish
MHDT / ERR / 150 / A / Finish
MHDT / ERR / 225 / A / Finish
MHDT / ERR / 300 / A / Finish
MHDT / ERR / 450 / A / Finish
MHDT / ERR / 600 / A / Finish
MHDT / ERR / 750 / A / Finish
MHDT / ERR / 900 / A / Finish

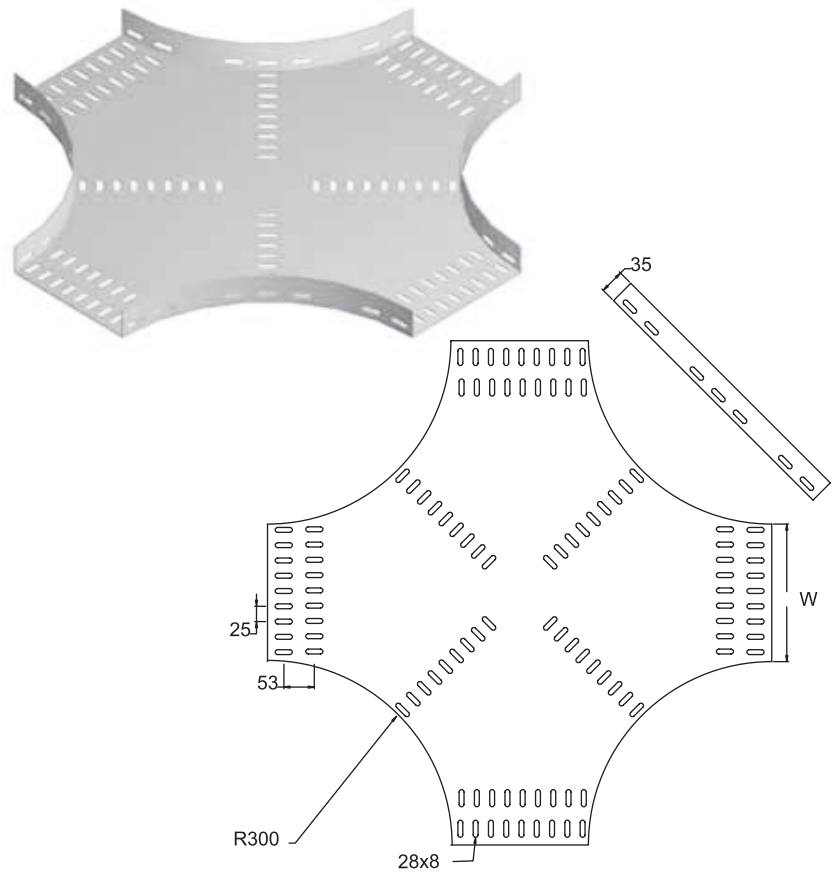


Note:

- Fish Plates are recommended for the trays & accessories above 200 mm widths for better load bearing capacity
- Bonding Jumpers are used for the Earthing Connectivity.
- Round Radial Accessory Covers are produced on request.
- For special gauges, sizes or design, consult our sales team or factory.

MHDT - CROSS HORIZONTAL

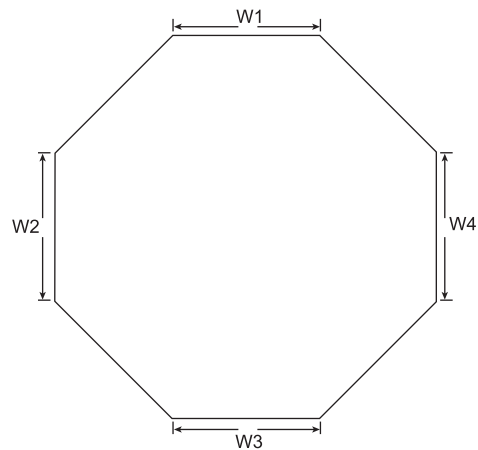
PART REF
MHDT / CHR / 50 / Finish
MHDT / CHR / 75 / Finish
MHDT / CHR / 100 / Finish
MHDT / CHR / 150 / Finish
MHDT / CHR / 225 / Finish
MHDT / CHR / 300 / Finish
MHDT / CHR / 450 / Finish
MHDT / CHR / 600 / Finish
MHDT / CHR / 750 / Finish
MHDT / CHR / 900 / Finish



- Accessories are connected to trays by connectors, For details
- MHDT Round Radial Accessory covers are produced on request.

LDT - UNEQUAL CROSS HORIZONTAL

PART REF
LDT/UCHR / W1/W2 /W3/W4 / Finish



- For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction as shown in the fig.
- Thickness for Unequal Cross to be followed of the larger size.
- For MHDT reducer details.

WEIGHT OF THE COMPONENTS

MHDT - CABLE TRAY

WIDTH(mm)	WT. (Kgs.)
50	2.608
75	2.894
100	3.657
150	4.717
225	7.558
300	9.455
450	16.557
600	21.274
750	34.683
900	41.054

INTERNAL CONNECTOR

WIDTH(mm)	WT. (Kgs.)
50 to 150	0.139

STRAIGHT CONNECTOR

WIDTH(mm)	WT. (Kgs.)
50 to 300	0.135
450 to 900	0.180

COVERS FOR STRAIGHT LENGTHS

WIDTH(mm)	WT. (Kgs.)
50	1.908
75	2.735
100	3.233
150	4.484
225	6.371
300	8.226
450	14.363
600	18.847
750	29.055
900	34.673

MHDT - ELBOW HORIZONTAL

WIDTH (mm)	WEIGHT IN KGS.	
	45°	90°
50	0.201	0.392
75	0.223	0.445
100	0.265	0.530
150	0.371	0.731
225	0.657	1.304
300	0.922	1.834
450	1.961	3.922
600	2.989	5.978
750	5.978	11.946
900	8.056	15.900

MHDT - CROSS HORIZONTAL

WIDTH(mm)	WT. (Kgs.)
50	1.145
75	1.505
100	1.664
150	1.961
225	3.042
300	3.922
450	7.367
600	10.388
750	18.868
900	24.613

MHDT - TEE HORIZONTAL

WIDTH(mm)	WT. (Kgs.)
50	0.880
75	1.039
100	1.166
150	1.431
225	2.385
300	3.127
450	6.212
600	9.031
750	16.186
900	22.705

MHDT - EXTERNAL RISER

WIDTH (mm)	WEIGHT IN KGS.	
	45°	90°
50	0.244	0.488
75	0.297	0.583
100	0.339	0.678
150	0.435	0.869
225	0.700	1.399
300	0.880	1.749
450	1.516	3.021
600	1.961	3.922
750	3.127	6.254
900	3.774	7.547

MHDT - INTERNAL RISER

WIDTH (mm)	WEIGHT IN KGS.	
	45°	90°
50	0.254	0.509
75	0.297	0.615
100	0.630	0.721
150	0.466	0.933
225	0.742	1.484
300	0.636	1.908
450	1.675	3.339
600	2.173	4.346
750	3.593	7.176
900	4.102	8.183

FOR STRAIGHT LENGTHS AND ACCESSORIES

Range / Width (W)	Thickness (T)	Side Height (H)
All dimensions are in mm		
50 to 150	1.0	25
225 to 300	1.2	25
450 to 600	1.5	25
750 to 900	2.0	25

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

- Medium duty inside return flange cable trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request.
- Medium duty inside return 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.
- Accessory covers and clamp details have been provided at the end of cable tray chapter.

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

ORDER PATTERN

To select the required component, please specify the type, component, width, finish. Angles can be mentioned wherever necessary.

EXAMPLE:

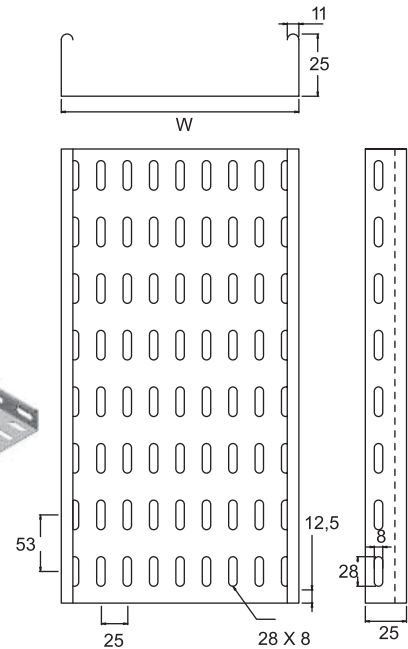
TYPE / COMPONENT / WIDTH / FINISH (without angle) MDT / COM / WIDTH / HDG

TYPE / COMPONENT / WIDTH / ANGLE / FINISH (with angle) MDT / COM / WIDTH / A / HDG

Note: For special finishes consult our sales team, factory
For special sizes, gauges, flanges, consult our sales team, factory

MEDIUM DUTY INSIDE RETURN FLANGE TRAY - (MDT)

PART REF
MDT / CT / 50 / Finish
MDT / CT / 75 / Finish
MDT / CT / 100 / Finish
MDT / CT / 150 / Finish
MDT / CT / 225 / Finish
MDT / CT / 300 / Finish
MDT / CT / 450 / Finish
MDT / CT / 600 / Finish
MDT / CT / 750 / Finish
MDT / CT / 900 / Finish



MDT Cable Trays are produced with inside return flange for medium duty applications

CONNECTORS

MDT CableTrays are joined together by straight & flange connectors. Connectors are supplied in pairs with a set of M6 x 12 roofing bolts, nuts and washers. Load graphs provided in the manual are based on MDT/SC. To be ordered separately.

STRAIGHT CONNECTOR

PART REF

MDT / SC / Width / Finish

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

FLANGE CONNECTOR

PART REF

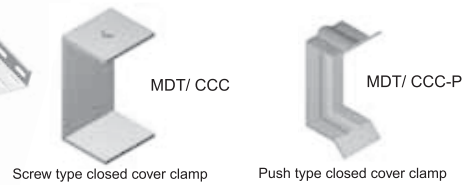
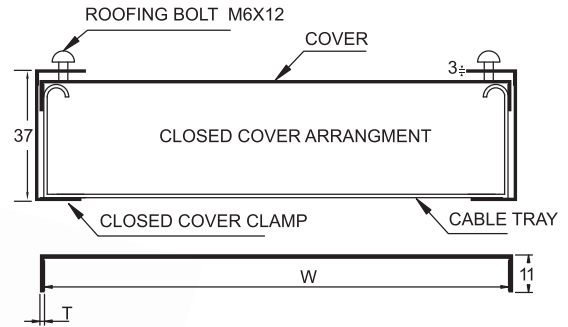
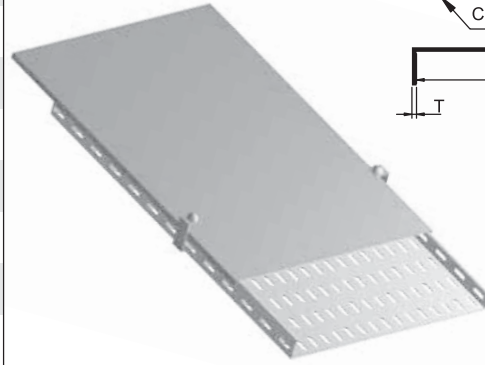
MDT / FC / Width / Finish

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

- Flange connectors are provided for extra strength. Flange connectors wrap up the trays from outside and increases the load bearing capacity of the tray.
- Select appropriate connector to suit your requirements.

CABLE TRAY CLOSED COVERS

PART REF
MDT / CTCC / 50 / Finish
MDT / CTCC / 75 / Finish
MDT / CTCC / 100 / Finish
MDT / CTCC / 150 / Finish
MDT / CTCC / 225 / Finish
MDT / CTCC / 300 / Finish
MDT / CTCC / 450 / Finish
MDT / CTCC / 600 / Finish
MDT / CTCC / 750 / Finish
MDT / CTCC / 900 / Finish

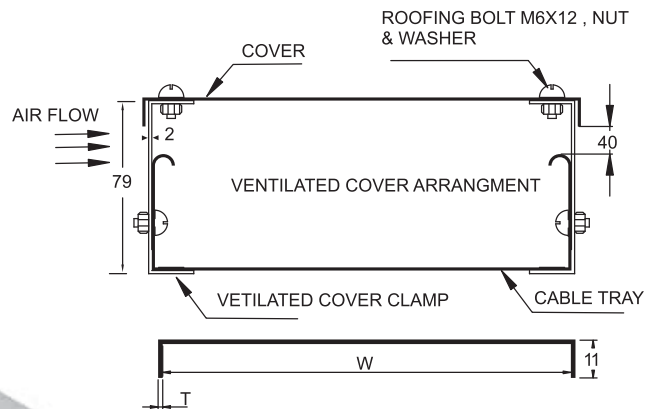
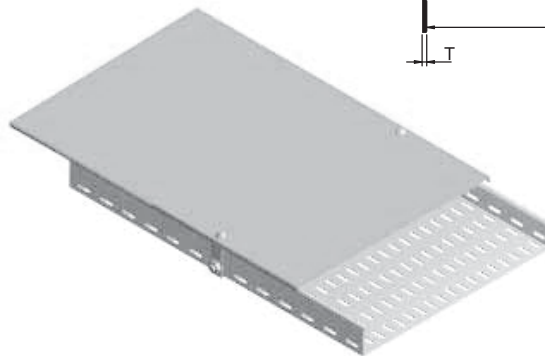


CLOSED COVER CLAMP

Screw type closed cover clamp MDT/CCC is supplied for closed cover arrangement with the set of M6 x 12 roofing bolts & washers. MDT/CCC-P is a push type option and requires no bolts. To be ordered separately.

CABLE TRAY VENTILATED COVERS

PART REF
MDT / CT VC / 50 / Finish
MDT / CT VC / 75 / Finish
MDT / CT VC / 100 / Finish
MDT / CT VC / 150 / Finish
MDT / CT VC / 225 / Finish
MDT / CT VC / 300 / Finish
MDT / CT VC / 450 / Finish
MDT / CT VC / 600 / Finish
MDT / CT VC / 750 / Finish
MDT / CT VC / 900 / Finish

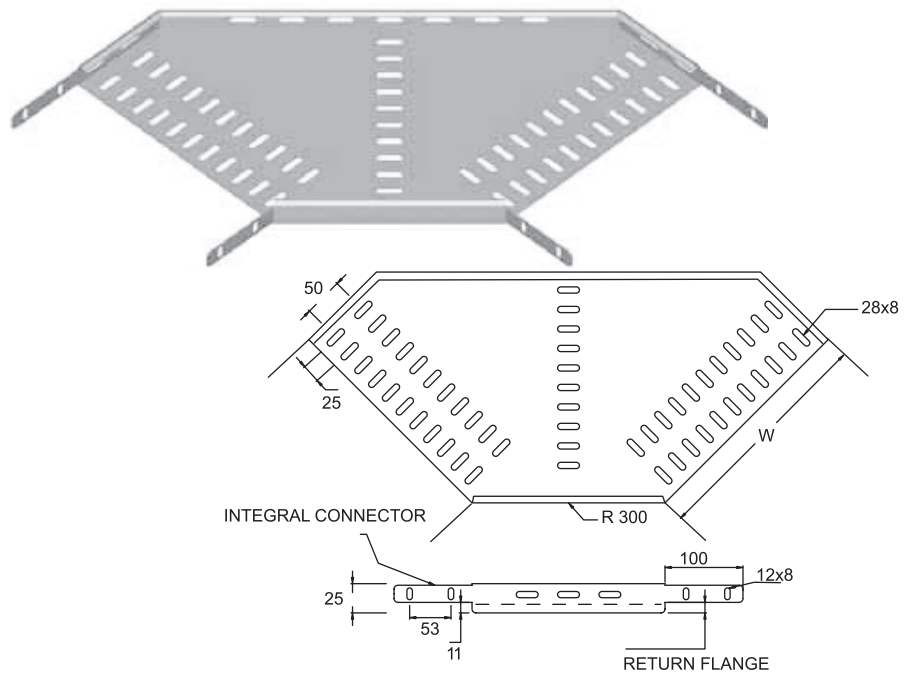


VENTILATED COVER CLAMP

Ventilated cover clamp is supplied for Ventilated cover arrangement with the set of M6 x 12 roofing bolts, nuts & washers. To be ordered separately

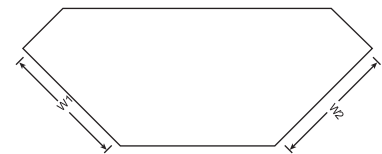
MDT - ELBOW HORIZONTAL 30° / 45° / 60° / 90°

PART REF
MDT / EH / 50 / A / Finish
MDT / EH / 75 / A / Finish
MDT / EH / 100 / A / Finish
MDT / EH / 150 / A / Finish
MDT / EH / 225 / A / Finish
MDT / EH / 300 / A / Finish
MDT / EH / 450 / A / Finish
MDT / EH / 600 / A / Finish
MDT / EH / 750 / A / Finish
MDT / EH / 900 / A / Finish



MDT UNEQUAL ELBOW - 30° / 45° / 60° / 90°

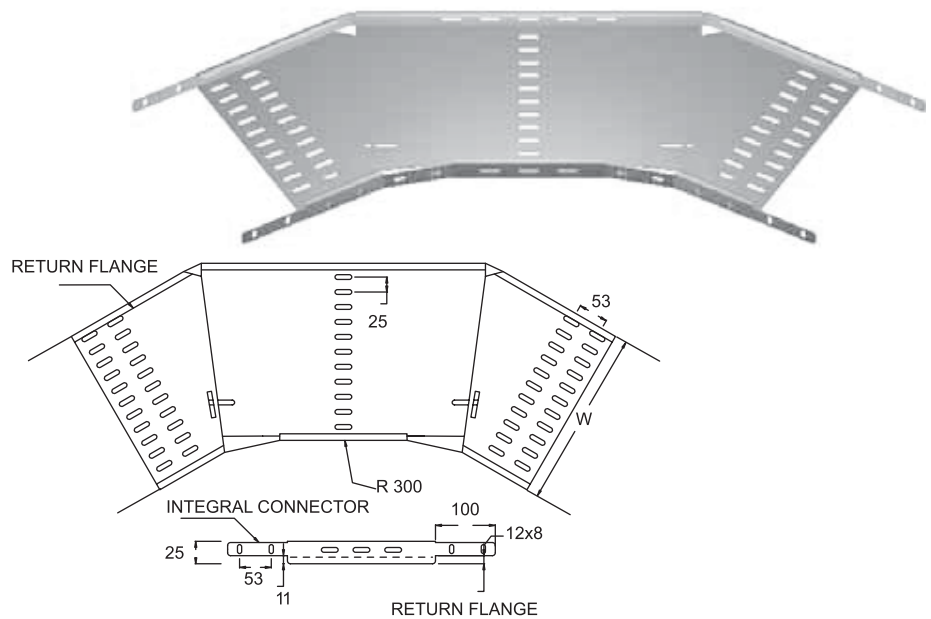
PART REF
MDT / UEH / W1 / W2 / A / Finish



- Thickness for UEH to be followed of the larger size. For details refer page no. 36
- For unequal elbow specify the widths as W1 & W2 as shown in the fig.

MDT - ADJUSTABLE ELBOW

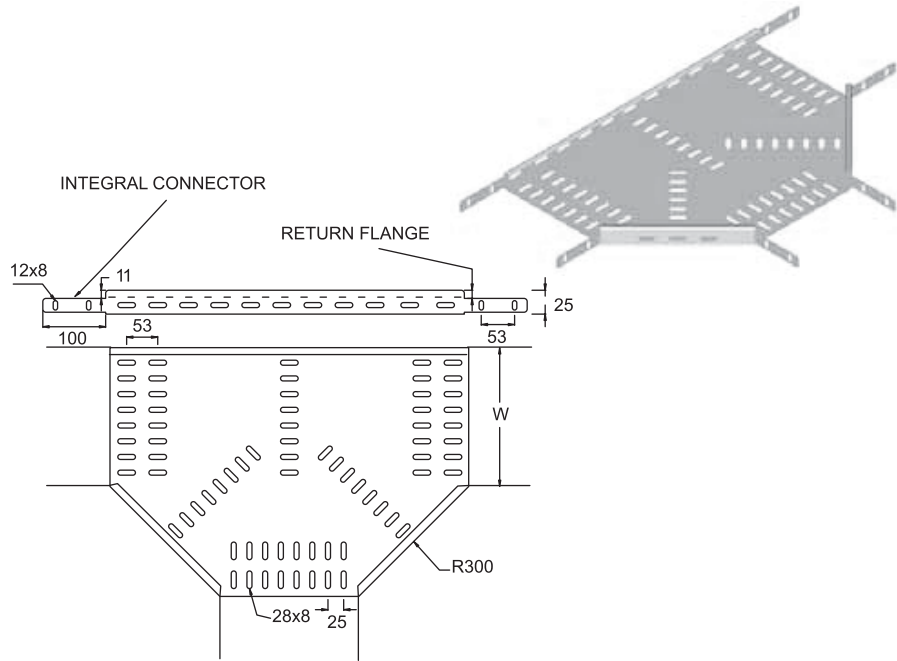
PART REF
MDT / AEH / 50 / Finish
MDT / AEH / 75 / Finish
MDT / AEH / 100 / Finish
MDT / AEH / 150 / Finish
MDT / AEH / 250 / Finish
MDT / AEH / 300 / Finish
MDT / AEH / 450 / Finish
MDT / AEH / 600 / Finish
MDT / AEH / 750 / Finish
MDT / AEH / 900 / Finish



Adjustable elbow can be fixed to any desired angle depending on the site application.

MDT - TEE HORIZONTAL

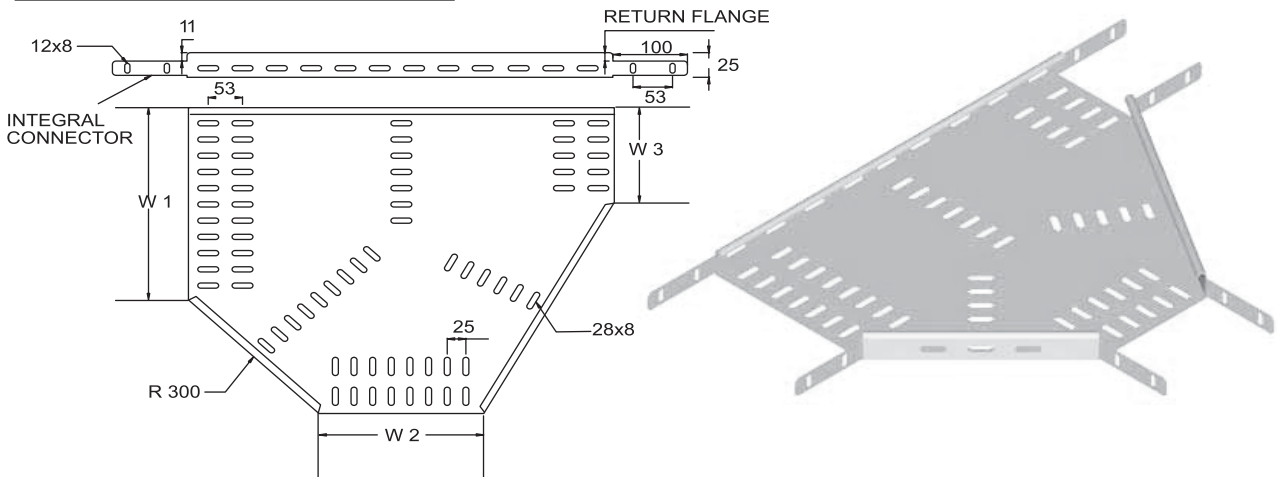
PART REF
MDT / TH / 50 / Finish
MDT / TH / 75 / Finish
MDT / TH / 100 / Finish
MDT / TH / 150 / Finish
MDT / TH / 225 / Finish
MDT / TH / 300 / Finish
MDT / TH / 450 / Finish
MDT / TH / 600 / Finish
MDT / TH / 750 / Finish
MDT / TH / 900 / Finish



- METAR Tray accessories are produced in a single piece and carry no welding. This design gives the component extra strength, rigidity and ease of installation.
- Bonding Jumpers are used for the Earthing Connectivity.
- METAR - Tray accessories are produced with integral connectors. No separate connectors are required.

MDT - UN EQUAL TEE

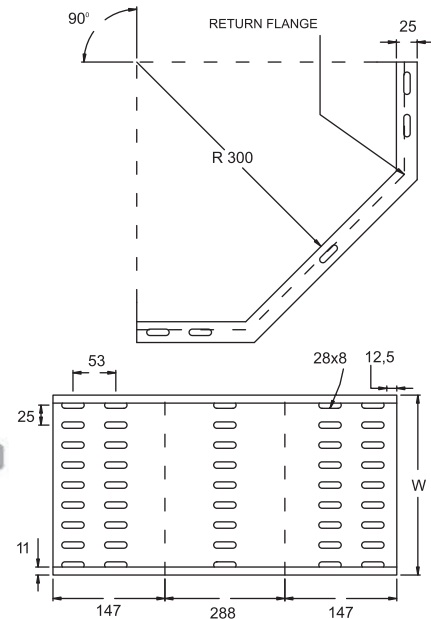
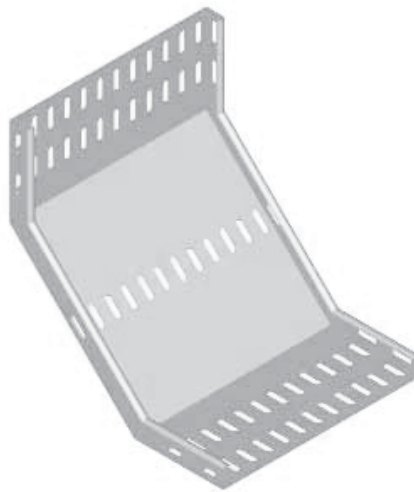
PART REF
MDT / UTH / W1 / W2 / W3 / Finish



- For Unequal Tee specify widths W1, W2, W3 anti clockwise
- Thickness for Unequal Tee to be followed of the larger size refer
- Unequal Tee can accomodate trays with unequal widths at one location.

MDT - INTERNAL RISER - 30° / 45° / 60° / 90°

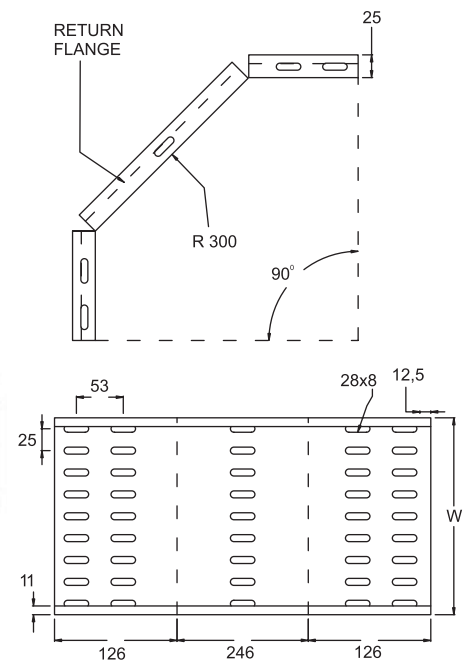
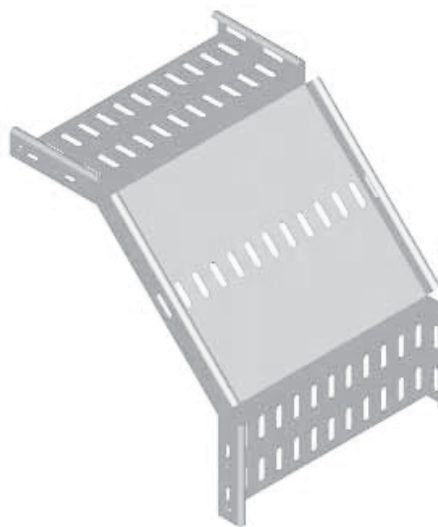
PART REF
MDT / IR / 50 / A / Finish
MDT / IR / 75 / A / Finish
MDT / IR / 100 / A / Finish
MDT / IR / 150 / A / Finish
MDT / IR / 225 / A / Finish
MDT / IR / 300 / A / Finish
MDT / IR / 450 / A / Finish
MDT / IR / 600 / A / Finish
MDT / IR / 750 / A / Finish
MDT / IR / 900 / A / Finish



Risers are joined to MDT Trays by straight & flange connectors.

MDT - EXTERNAL RISER - 30° / 45° / 60° / 90°

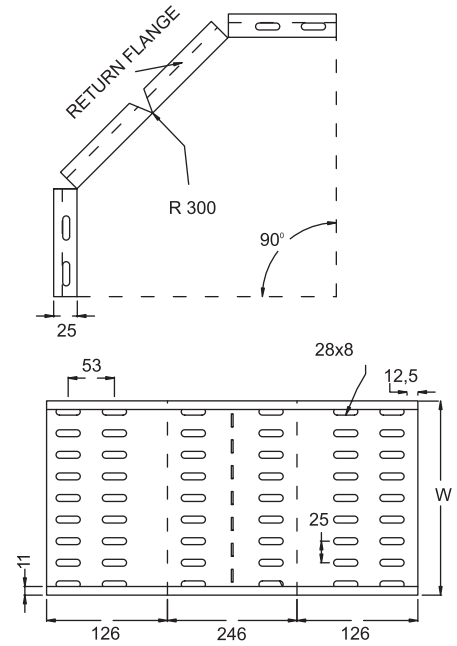
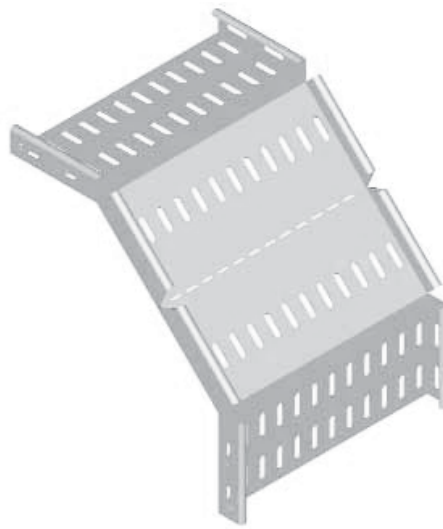
PART REF
MDT / ER / 50 / A / Finish
MDT / ER / 75 / A / Finish
MDT / ER / 100 / A / Finish
MDT / ER / 150 / A / Finish
MDT / ER / 225 / A / Finish
MDT / ER / 300 / A / Finish
MDT / ER / 450 / A / Finish
MDT / ER / 600 / A / Finish
MDT / ER / 750 / A / Finish
MDT / ER / 900 / A / Finish



- Fish Plates are recommended for the trays & accessories above 200mm widths for better load bearing capacity.
- For support system for the installation, please refer Metal strut framing system of this manual.
- For Accessory Cover details
- For special gauges, sizes or design, consult our sales team or factory.

MDT - ADJUSTABLE RISER

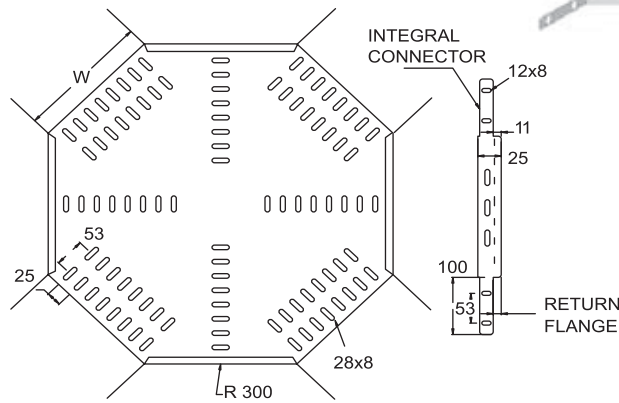
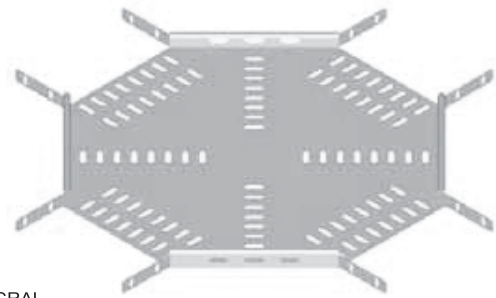
PART REF
MDT / AR / 50 / Finish
MDT / AR / 75 / Finish
MDT / AR / 100 / Finish
MDT / AR / 150 / Finish
MDT / AR / 225 / Finish
MDT / AR / 300 / Finish
MDT / AR / 450 / Finish
MDT / AR / 600 / Finish
MDT / AR / 750 / Finish
MDT / AR / 900 / Finish



Extra long adjustable riser can be produced on request and is specified by **MDT / XLAR / WIDTH / FINISH**

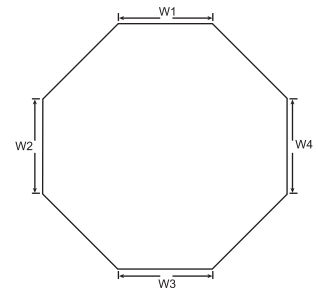
MDT - CROSS HORIZONTAL

PART REF
MDT / CH / 50 / Finish
MDT / CH / 75 / Finish
MDT / CH / 100 / Finish
MDT / CH / 150 / Finish
MDT / CH / 225 / Finish
MDT / CH / 300 / Finish
MDT / CH / 450 / Finish
MDT / CH / 600 / Finish
MDT / CH / 750 / Finish
MDT / CH / 900 / Finish



MDT - UNEQUAL CROSS HORIZONTAL

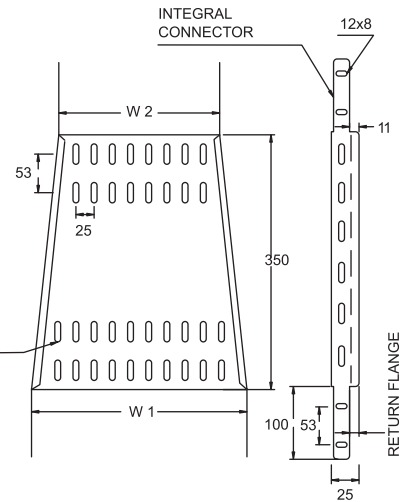
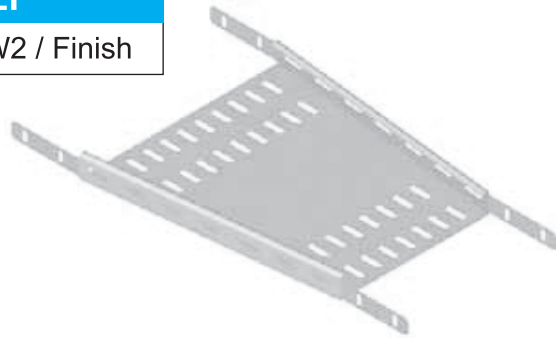
PART REF
MDT / UCH / W1 / W2 / W3 / W4 / Finish



- For Un Equal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction as shown in the fig.
- Thickness for Unequal Cross Horizontal to be followed of the larger size. For details refer

MDT - REDUCER STRAIGHT

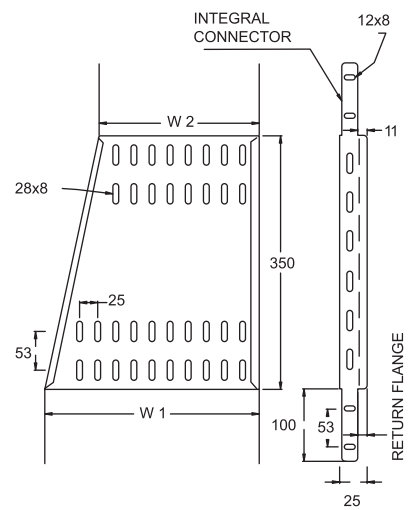
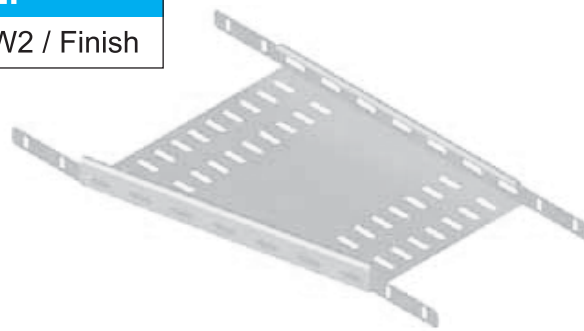
PART REF
MDT / RS / W1 / W2 / Finish



Reducing Connectors can also be used for reduction depending on the site application. For Reducing Connector details

MDT - REDUCER RIGHT

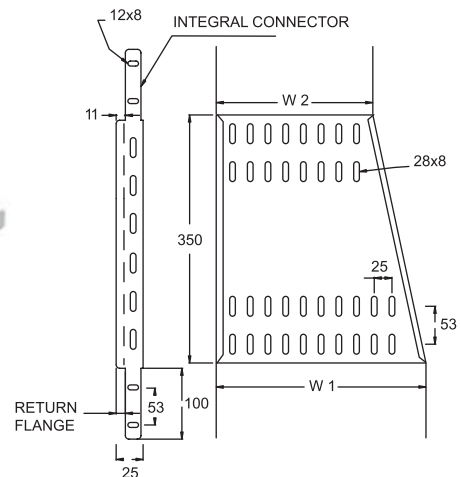
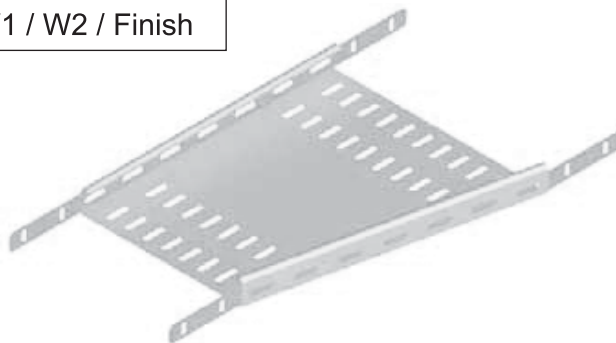
PART REF
MDT / RR / W1 / W2 / Finish



Bonding Jumpers are used for the Earthing Connectivity.

MDT - REDUCER LEFT

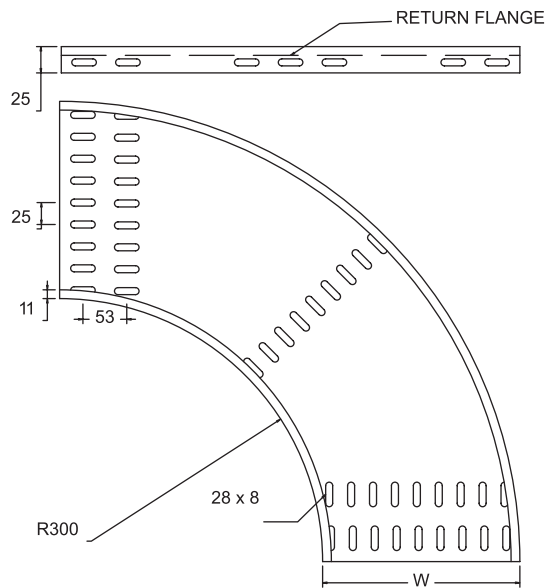
PART REF
MDT / RL / W1 / W2 / Finish



Thickness for the Reducers to be followed of the larger size.

MDT - ELBOW HORIZONTAL 30 ° / 45° / 60° / 90°

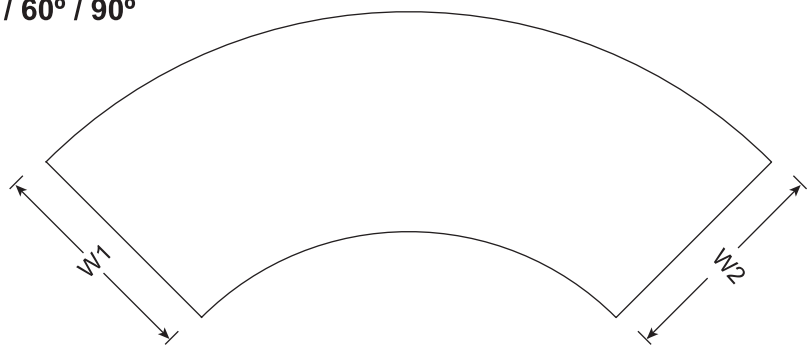
PART REF
MDT / EHR / 50 / A / Finish
MDT / EHR / 75 / A / Finish
MDT / EHR / 100 / A / Finish
MDT / EHR / 150 / A / Finish
MDT / EHR / 225 / A / Finish
MDT / EHR / 300 / A / Finish
MDT / EHR / 450 / A / Finish
MDT / EHR / 600 / A / Finish
MDT / EHR / 750 / A / Finish
MDT / EHR / 900 / A / Finish



- MDT Round Radial Accessories are joined by connectors.
- For details on Thickness, Width and Finish refer page 36
- Adjustable elbows are produced on request and are specified as MDT / AEH / Width / Finish. For

MDT UNEQUAL ELBOW - 30 ° / 45° / 60° / 90°

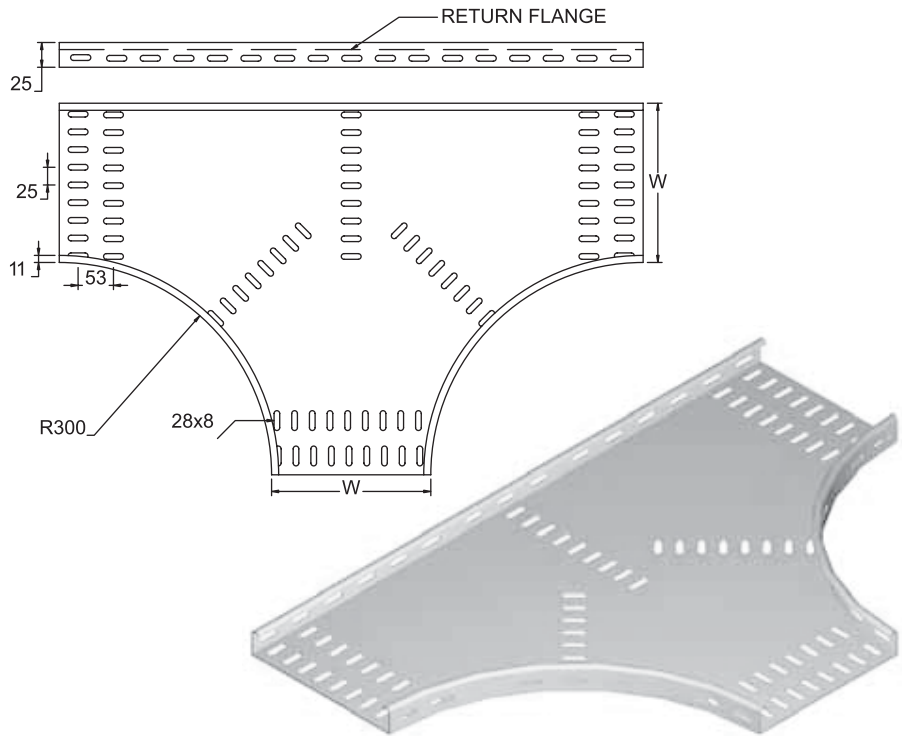
PART REF
MDT / UEHR / W1 / W2 / A / Finish



- Thickness for UEHR to be followed of the larger size.
- For unequal elbow specify the widths as W1 & W2 as shown in the fig.

MDT - TEE HORIZONTAL

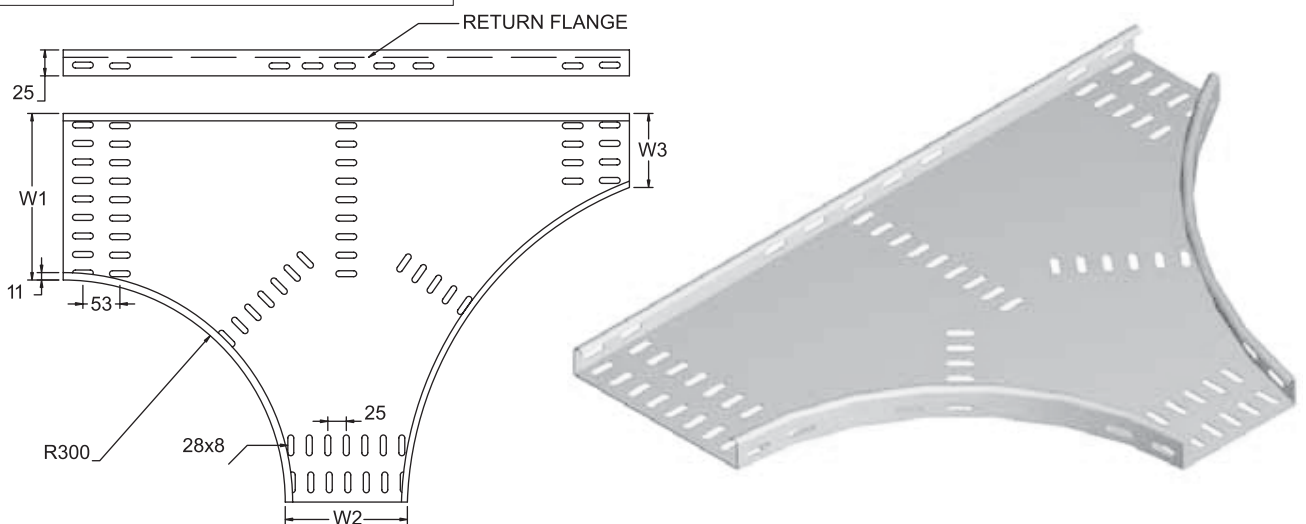
PART REF
MDT / THR / 50 / Finish
MDT / THR / 75 / Finish
MDT / THR / 100 / Finish
MDT / THR / 150 / Finish
MDT / THR / 225 / Finish
MDT / THR / 300 / Finish
MDT / THR / 450 / Finish
MDT / THR / 600 / Finish
MDT / THR / 750 / Finish
MDT / THR / 900 / Finish



- MDT Round Radial Accessories are joined by connectors.
- Bonding Jumpers are used for the Earthing Connectivity.
- Round radial accessory covers can be produced on request.

MDT - UN EQUAL TEE

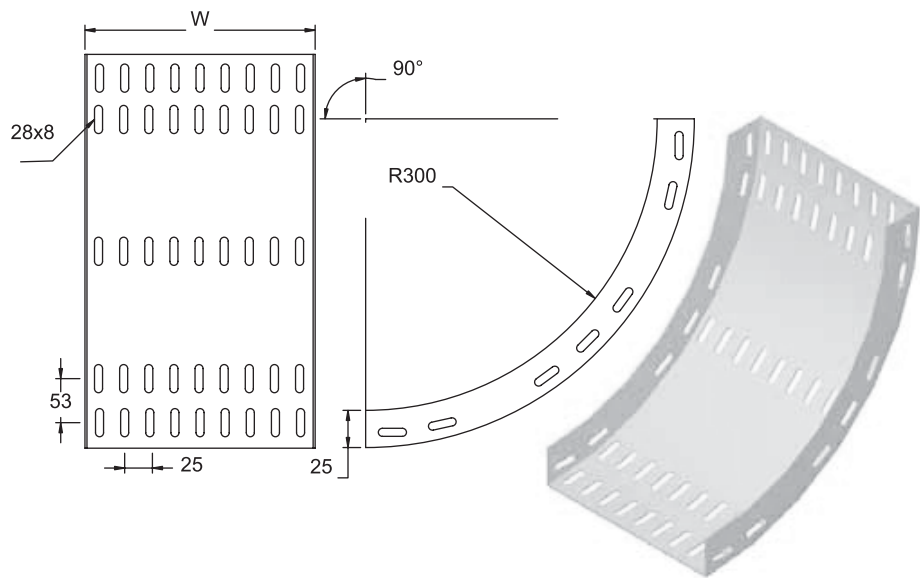
PART REF
MDT / UTHR / W1 / W2 / W3 / Finish



- For Unequal Tee specify widths W1, W2, W3 anti clockwise.
- Thickness for Unequal Tee to be followed of the larger size.
- Unequal Tee can accommodate trays with unequal widths at one location.

MDT - INTERNAL RISER - 30° / 45° / 60° / 90°

PART REF
MDT / IRR / 50 / A / Finish
MDT / IRR / 75 / A / Finish
MDT / IRR / 100 / A / Finish
MDT / IRR / 150 / A / Finish
MDT / IRR / 225 / A / Finish
MDT / IRR / 300 / A / Finish
MDT / IRR / 450 / A / Finish
MDT / IRR / 600 / A / Finish
MDT / IRR / 750 / A / Finish
MDT / IRR / 900 / A / Finish



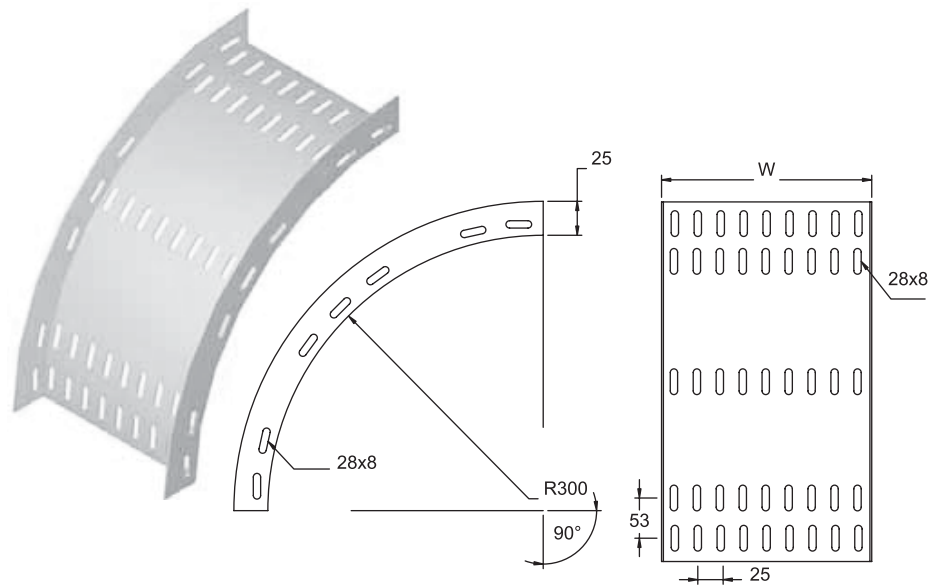
Risers are joined to MDT Trays by straight connectors.

Adjustable risers are produced on request and are specified by MDT / AR / Width / Finish.

Extra long adjustable risers are produced on request and are specified by MDT / XLAR / Width / Finish.

MDT - EXTERNAL RISER - 30° / 45° / 60° / 90°

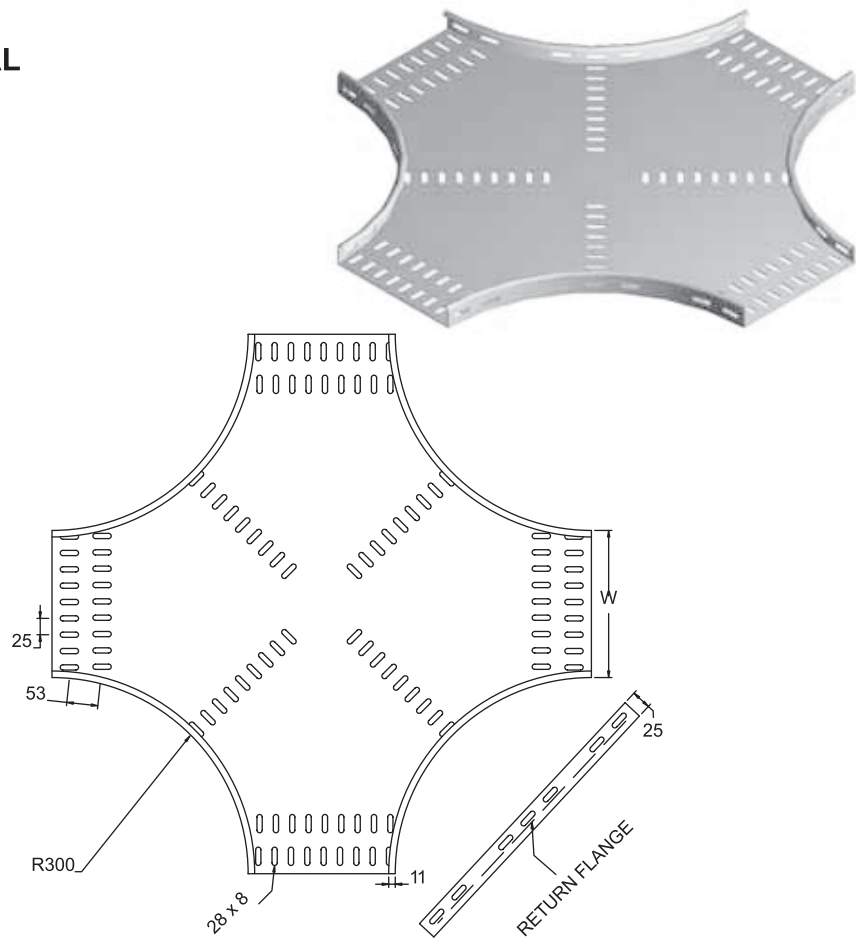
PART REF
MDT / ERR / 50 / A / Finish
MDT / ERR / 75 / A / Finish
MDT / ERR / 100 / A / Finish
MDT / ERR / 150 / A / Finish
MDT / ERR / 225 / A / Finish
MDT / ERR / 300 / A / Finish
MDT / ERR / 450 / A / Finish
MDT / ERR / 600 / A / Finish
MDT / ERR / 750 / A / Finish
MDT / ERR / 900 / A / Finish



- Fish Plates are recommended for the trays & accessories above 200mm widths for better load bearing capacity.
- For support system for the installation, please refer Metal strut framing system of this manual.
- Round Radial Accessory Covers are produced on request.
- For special gauges, sizes or design, consult our sales team or factory.

MDT - CROSS HORIZONTAL

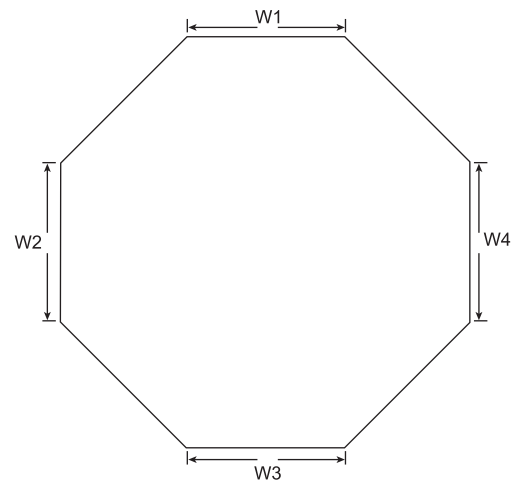
PART REF
MDT / CHR / 50 / Finish
MDT / CHR / 75 / Finish
MDT / CHR / 100 / Finish
MDT / CHR / 150 / Finish
MDT / CHR / 225 / Finish
MDT / CHR / 300 / Finish
MDT / CHR / 450 / Finish
MDT / CHR / 600 / Finish
MDT / CHR / 750 / Finish
MDT / CHR / 900 / Finish



- MDT Round Radial Accessories are joined by connectors.
- Round Radial Accessory covers are produced on request.

MDT - UNEQUAL CROSS HORIZONTAL

PART REF
MDT / UCHR / W1 / W2 / W3 / W4 / Finish



- For Un Equal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction as shown in the fig.
- Thickness for Unequal Cross Horizontal to be followed of the larger size.
- For MDT reducer details.

WEIGHT OF THE COMPONENTS

MDT - CABLE TRAY

WIDTH(mm)	WT. (Kgs.)
50	2.703
75	2.926
100	3.752
150	4.812
225	7.674
300	9.572
450	16.706
600	21.423
750	34.927
900	41.255

STRAIGHT CONNECTOR

WIDTH(mm)	WT. (Kgs.)
50 to 300	0.115
450 to 900	0.153

FLANGE CONNECTOR

WIDTH(mm)	WT. (Kgs.)
50 to 300	0.159
450 to 900	0.213

COVERS FOR STRAIGHT LENGTHS

WIDTH(mm)	WT. (Kgs.)
50	1.908
75	2.735
100	3.233
150	4.484
225	6.371
300	8.226
450	14.363
600	18.847
750	29.055
900	34.673

MDT - ELBOW HORIZONTAL

WIDTH (mm)	WEIGHT IN KGS.	
	45°	90°
50	0.201	0.371
75	0.223	0.424
100	0.265	0.509
150	0.371	0.710
225	0.647	1.261
300	0.901	1.791
450	1.940	3.869
600	2.968	5.925
750	5.947	11.883
900	7.961	15.911

MDT - CROSS HORIZONTAL

WIDTH(mm)	WT. (Kgs.)
50	0.912
75	1.092
100	1.272
150	1.664
225	2.332
300	3.106
450	5.894
600	8.512
750	14.480
900	18.879

MDT - TEE HORIZONTAL

WIDTH(mm)	WT. (Kgs.)
50	0.859
75	1.018
100	1.145
150	1.399
225	2.311
300	3.074
450	6.137
600	8.957
750	16.133
900	22.631

MDT - EXTERNAL RISER

WIDTH (mm) °	WEIGHT IN KGS.	
	45	90°
50	0.233	0.466
75	0.286	0.562
100	0.329	0.657
150	0.435	0.848
225	0.689	1.367
300	0.859	1.707
450	1.495	2.989
600	1.929	3.848
750	3.095	6.190
900	3.710	7.409

MDT - INTERNAL RISER

WIDTH (mm) °	WEIGHT IN KGS.	
	45	90°
50	0.244	0.488
75	0.297	0.594
100	0.350	0.700
150	0.456	0.912
225	0.742	1.463
300	0.965	1.844
450	1.601	3.233
600	2.088	4.166
750	3.551	7.102
900	4.028	8.056

FOR STRAIGHT LENGTHS AND ACCESSORIES

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

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

- Heavy duty inside return flange cable trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request.
- Heavy duty inside return 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.
- Accessory cover and clamp details have been provided at the end of cable tray chapter.

COVERS FOR STRAIGHT LENGTHS AND ACCESSORIES

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

ORDER PATTERN

To select the required component, please specify the type, component, width, finish. Angles can be mentioned wherever necessary.

EXAMPLE:

TYPE / COMPONENT / WIDTH / FINISH (without angle) HDT / COM / WIDTH / HDG

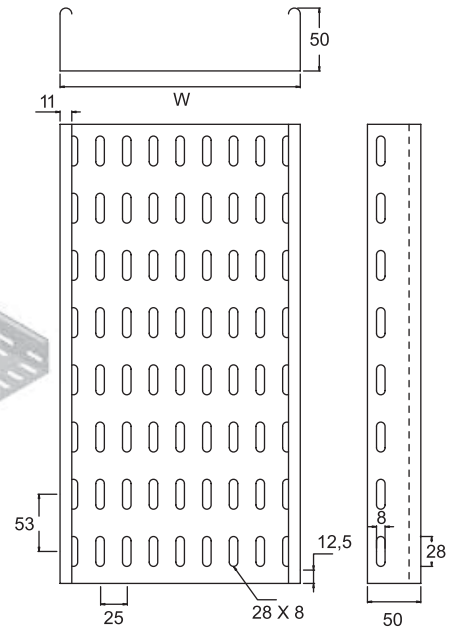
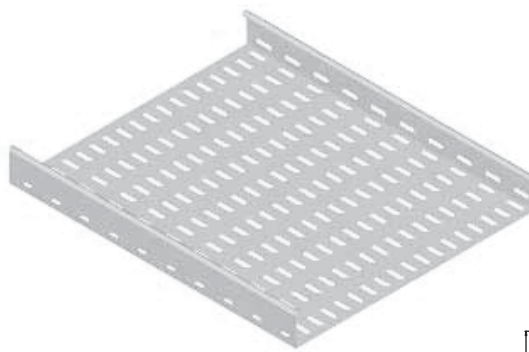
TYPE / COMPONENT / WIDTH / ANGLE / FINISH (with angle) HDT / COM / WIDTH / A / HDG

Note: For special finishes consult our sales team, factory

For special sizes, gauges, flanges, consult our sales team, factory

HEAVY DUTY INSIDE RETURN FLANGE TRAY - (HDT)

PART REF
HDT / CT / 75 / Finish
HDT / CT / 100 / Finish
HDT / CT / 150 / Finish
HDT / CT / 225 / Finish
HDT / CT / 300 / Finish
HDT / CT / 450 / Finish
HDT / CT / 600 / Finish
HDT / CT / 750 / Finish
HDT / CT / 900 / Finish



HDT CableTrays are produced with inside return flange for heavy duty applications

CONNECTORS

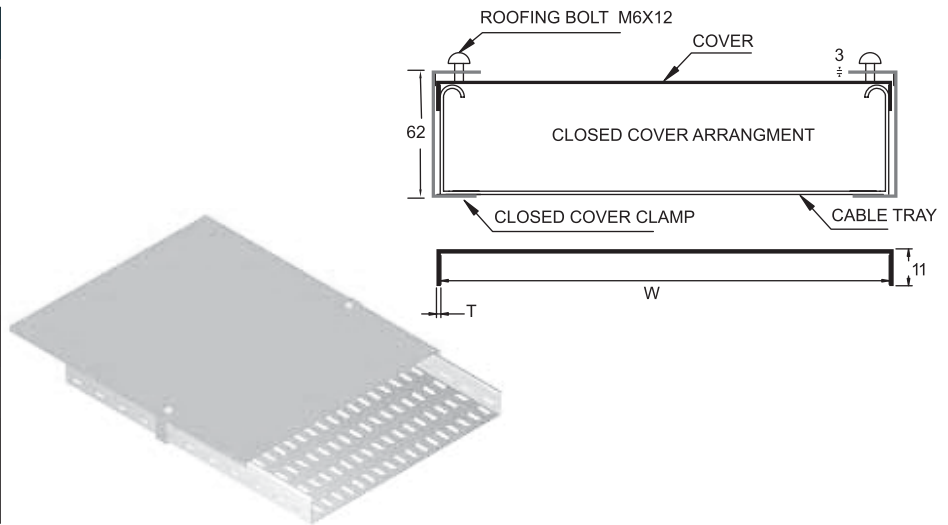
HDT CableTrays are joined together by straight & flange connectors. Connectors are supplied in pairs with a set of M6 x 12 roofing bolts, nuts and washers. Load graphs provided in the manual are based on HDT/SC. To be ordered separately.

STRAIGHT CONNECTOR		FLANGE CONNECTOR																									
<table border="1"> <thead> <tr> <th colspan="2">PART REF</th> </tr> <tr> <td colspan="2">HDT / SC / Width / Finish</td> </tr> </thead> </table>		PART REF		HDT / SC / Width / Finish		<table border="1"> <thead> <tr> <th colspan="2">PART REF</th> </tr> <tr> <td colspan="2">HDT / FC / Width / Finish</td> </tr> </thead> </table>		PART REF		HDT / FC / Width / Finish																	
PART REF																											
HDT / SC / Width / Finish																											
PART REF																											
HDT / FC / Width / Finish																											
<table border="1"> <thead> <tr> <th>Width (mm)</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr> <td>75 to 300</td> <td>1.5</td> </tr> <tr> <td>450 to 900</td> <td>2.0</td> </tr> </tbody> </table>	Width (mm)	Thickness (mm)	75 to 300	1.5	450 to 900	2.0	<table border="1"> <thead> <tr> <th>Width (mm)</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr> <td>75 to 300</td> <td>1.5</td> </tr> <tr> <td>450 to 900</td> <td>2.0</td> </tr> </tbody> </table>	Width (mm)	Thickness (mm)	75 to 300	1.5	450 to 900	2.0	<table border="1"> <thead> <tr> <th>Width (mm)</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr> <td>75 to 300</td> <td>1.5</td> </tr> <tr> <td>450 to 900</td> <td>2.0</td> </tr> </tbody> </table>	Width (mm)	Thickness (mm)	75 to 300	1.5	450 to 900	2.0	<table border="1"> <thead> <tr> <th>Width (mm)</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr> <td>75 to 300</td> <td>1.5</td> </tr> <tr> <td>450 to 900</td> <td>2.0</td> </tr> </tbody> </table>	Width (mm)	Thickness (mm)	75 to 300	1.5	450 to 900	2.0
Width (mm)	Thickness (mm)																										
75 to 300	1.5																										
450 to 900	2.0																										
Width (mm)	Thickness (mm)																										
75 to 300	1.5																										
450 to 900	2.0																										
Width (mm)	Thickness (mm)																										
75 to 300	1.5																										
450 to 900	2.0																										
Width (mm)	Thickness (mm)																										
75 to 300	1.5																										
450 to 900	2.0																										

- Flange connectors are provided for extra strength. Flange connectors wrap up the trays from outside and increases the load bearing capacity of the tray.
- Select an appropriate connector to suit your requirements

CABLE TRAY CLOSED COVERS

PART REF
HDT / CTCC / 75 / Finish
HDT / CTCC / 100 / Finish
HDT / CTCC / 150 / Finish
HDT / CTCC / 225 / Finish
HDT / CTCC / 300 / Finish
HDT / CTCC / 450 / Finish
HDT / CTCC / 600 / Finish
HDT / CTCC / 750 / Finish
HDT / CTCC / 900 / Finish

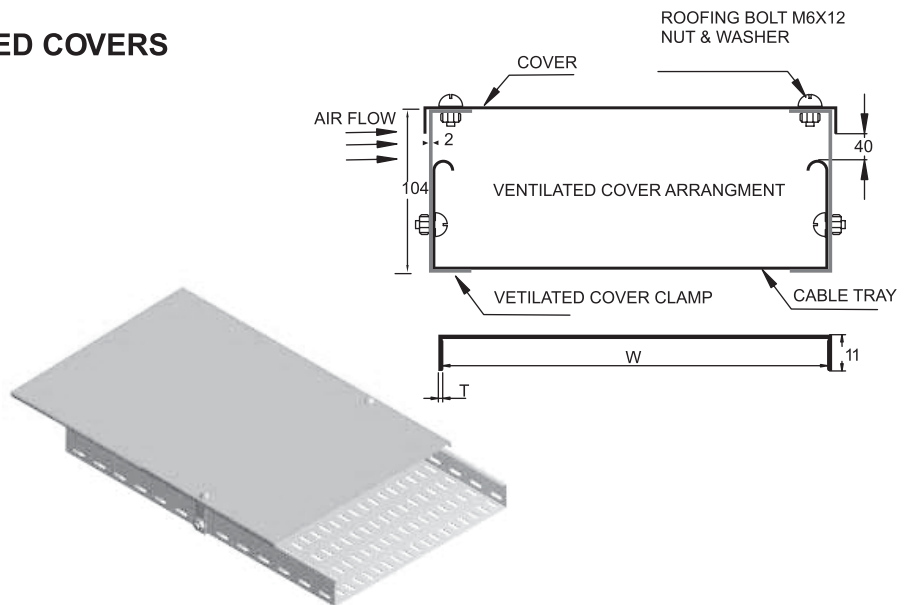


CLOSED COVER CLAMP

Screw type closed cover clamp HDT/CCC is supplied for closed cover arrangement with the M6 x 12 roofing bolt. HDT/CCC-P is an option and requires no bolts. Clamps to ordered separately.

CABLE TRAY VENTILATED COVERS

PART REF
HDT / CTVC / 75 / Finish
HDT / CTVC / 100 / Finish
HDT / CTVC / 150 / Finish
HDT / CTVC / 225 / Finish
HDT / CTVC / 300 / Finish
HDT / CTVC / 450 / Finish
HDT / CTVC / 600 / Finish
HDT / CTVC / 750 / Finish
HDT / CTVC / 900 / Finish

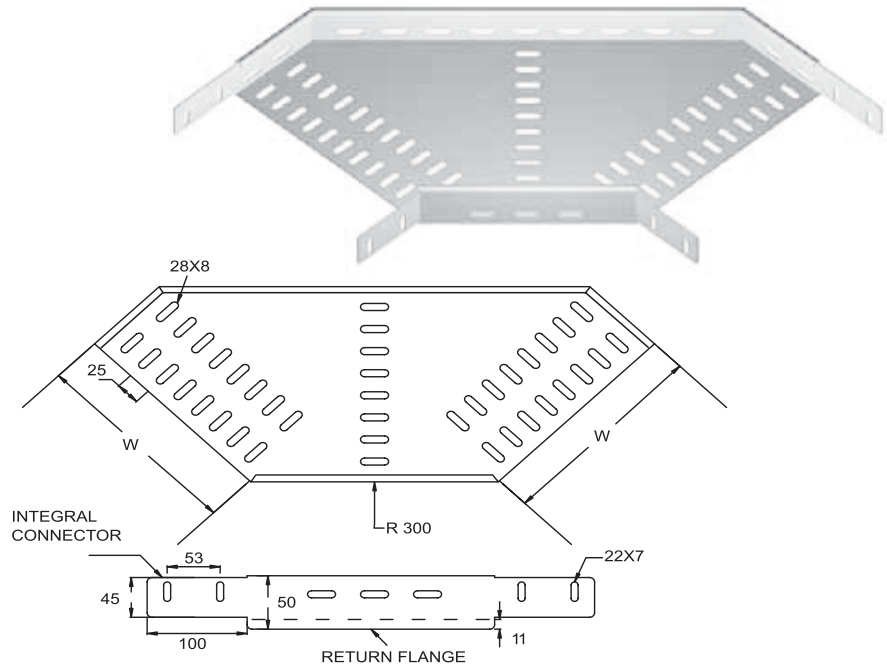


VENTILATED COVER CLAMP

Ventilated cover clamp HDT/VCC is supplied for Ventilated cover arrangement with the set of M6 x 12 roofing bolts, nuts & washers. To be ordered separately

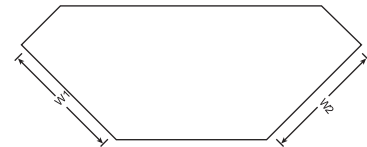
HDT - ELBOW HORIZONTAL 30° / 45° / 60° / 90°

PART REF
HDT / EH / 75 / A / Finish
HDT / EH / 100 / A / Finish
HDT / EH / 150 / A / Finish
HDT / EH / 225 / A / Finish
HDT / EH / 300 / A / Finish
HDT / EH / 450 / A / Finish
HDT / EH / 600 / A / Finish
HDT / EH / 750 / A / Finish
HDT / EH / 900 / A / Finish



HDT - UNEQUAL ELBOW - 30° / 45° / 60° / 90°

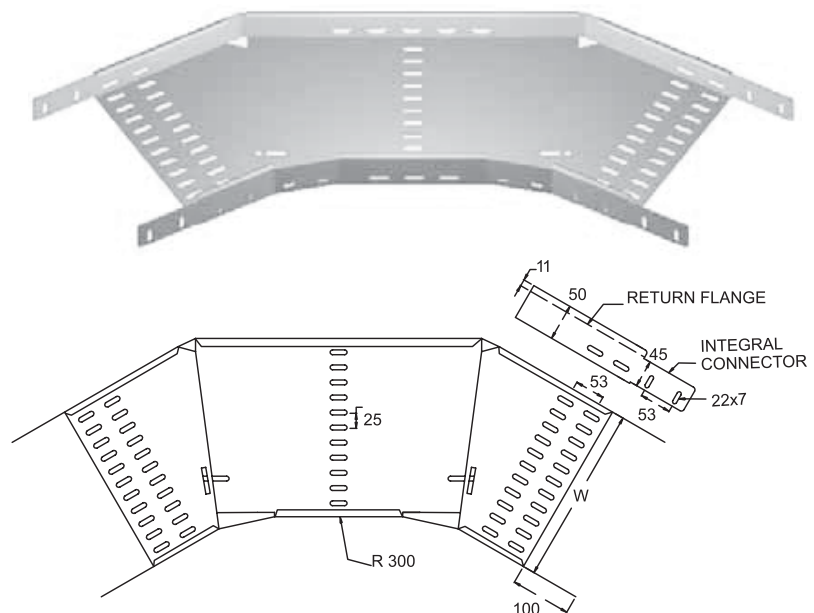
PART REF
HDT / UEH / W1/W2 / A / Finish



For Un Equal elbow specify the widths as W1 & W2 as shown in the fig. Thickness for UEH to be followed of the larger size. For details refer page no. 50

HDT - ADJUSTABLE ELBOW

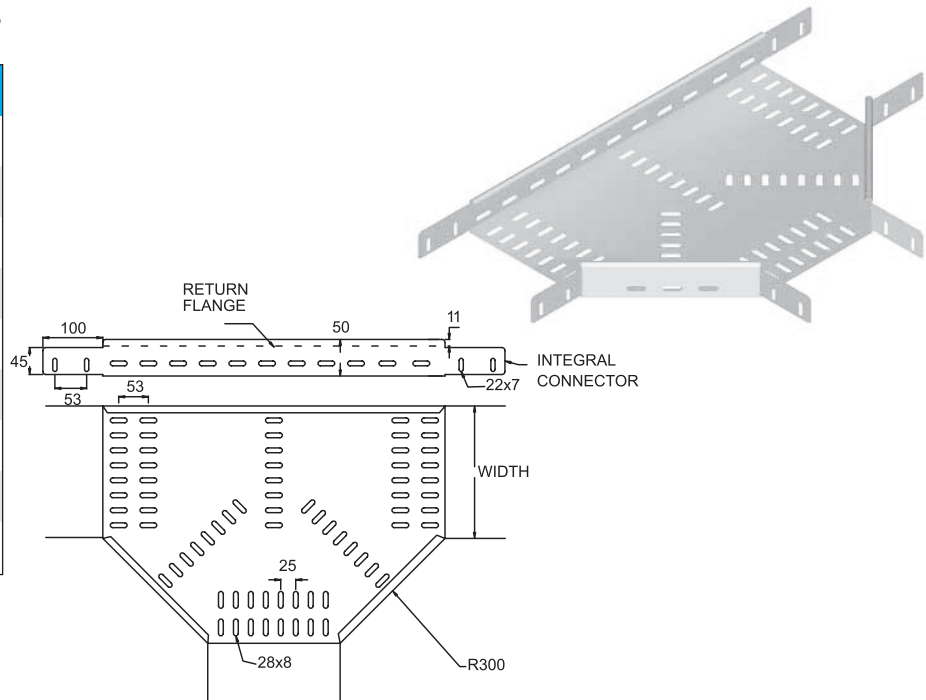
PART REF
HDT / AEH / 75 / Finish
HDT / AEH / 100 / Finish
HDT / AEH / 150 / Finish
HDT / AEH / 225 / Finish
HDT / AEH / 300 / Finish
HDT / AEH / 450 / Finish
HDT / AEH / 600 / Finish
HDT / AEH / 750 / Finish
HDT / AEH / 900 / Finish



Adjustable elbow can be fixed to any desired angle to suit site requirements.

HDT - TEE HORIZONTAL

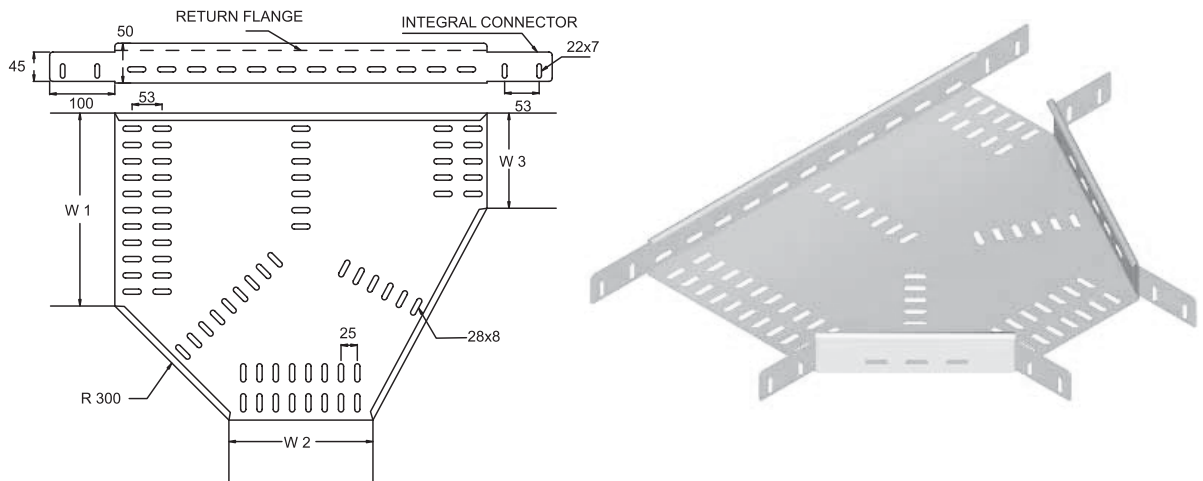
PART REF
HDT / TH / 75 / Finish
HDT / TH / 100 / Finish
HDT / TH / 150 / Finish
HDT / TH / 225 / Finish
HDT / TH / 300 / Finish
HDT / TH / 450 / Finish
HDT / TH / 600 / Finish
HDT / TH / 750 / Finish
HDT / TH / 900 / Finish



- METAR Tray accessories are produced in a single piece and carries no welding. This design gives the component extra strength, rigidity and ease of installation.
- Fish Plates are recommended for the trays & accessories above 200mm widths for better load bearing capacity.

HDT - UN EQUAL TEE

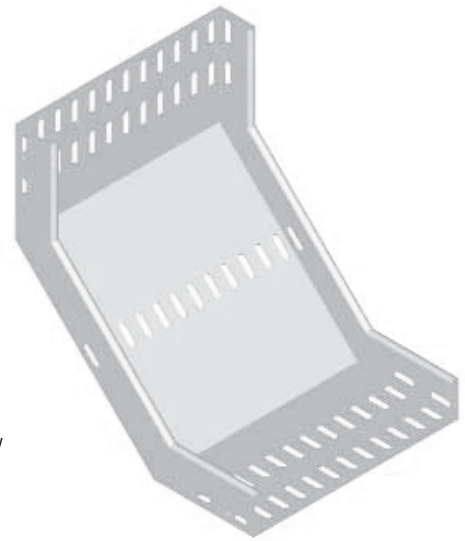
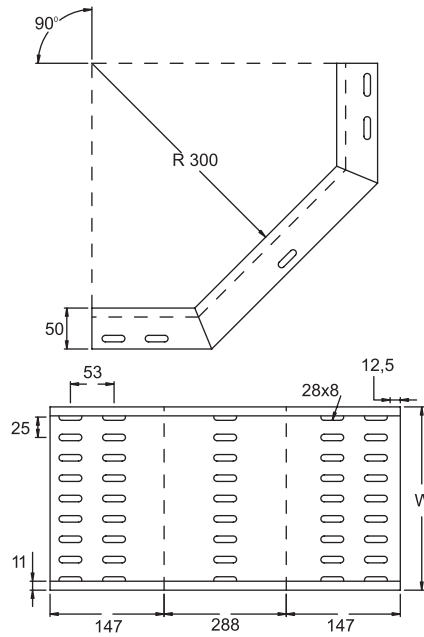
PART REF
HDT / UTH / W1 / W2 / W3 Finish



- Unequal Tee can accommodate trays with different widths at one location.
- For Unequal Tee specify widths W1, W2, W3 anti clockwise as shown in the figure.
- Thickness for Unequal Tee to be followed of the larger size refer page 50
- METAR - Tray accessories are produced with integral connectors. No separate connectors are required.

HDT - INTERNAL RISER - 30° / 45° / 60° / 90°

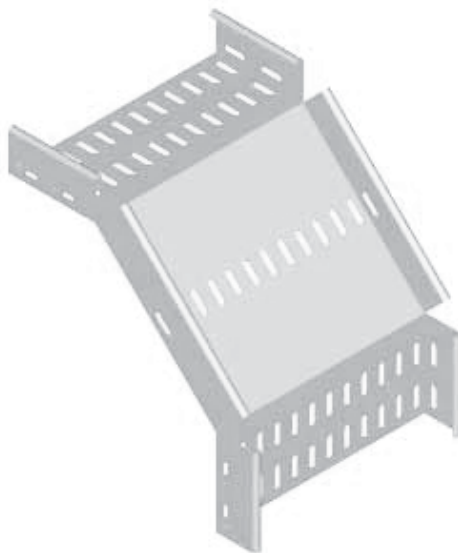
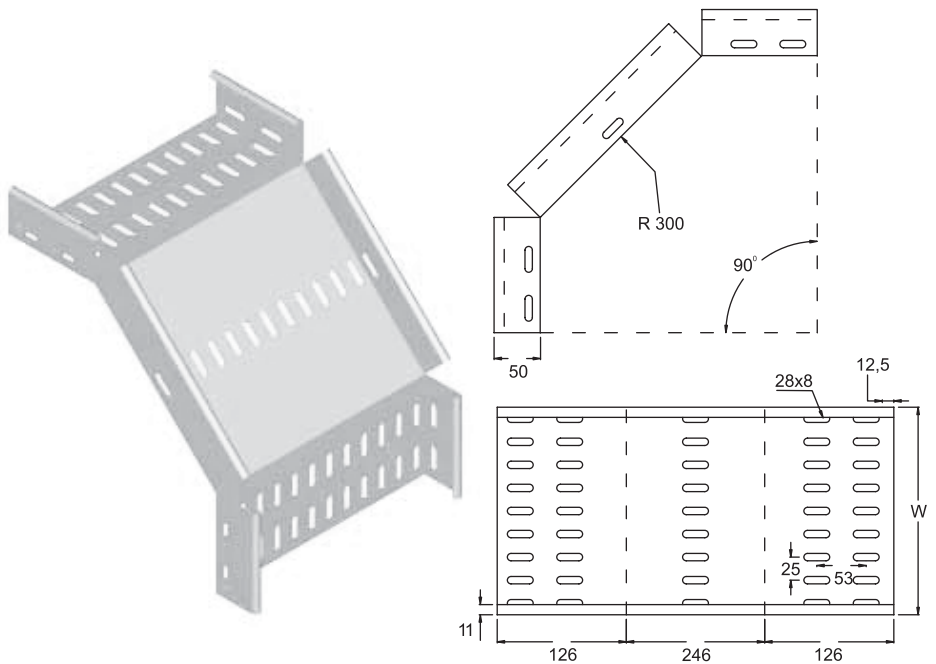
PART REF
HDT / IR / 75 / A / Finish
HDT / IR / 100 / A / Finish
HDT / IR / 150 / A / Finish
HDT / IR / 225 / A / Finish
HDT / IR / 300 / A / Finish
HDT / IR / 450 / A / Finish
HDT / IR / 600 / A / Finish
HDT / IR / 750 / A / Finish
HDT / IR / 900 / A / Finish



Risers are joined to HDT Trays by straight & flange connectors.

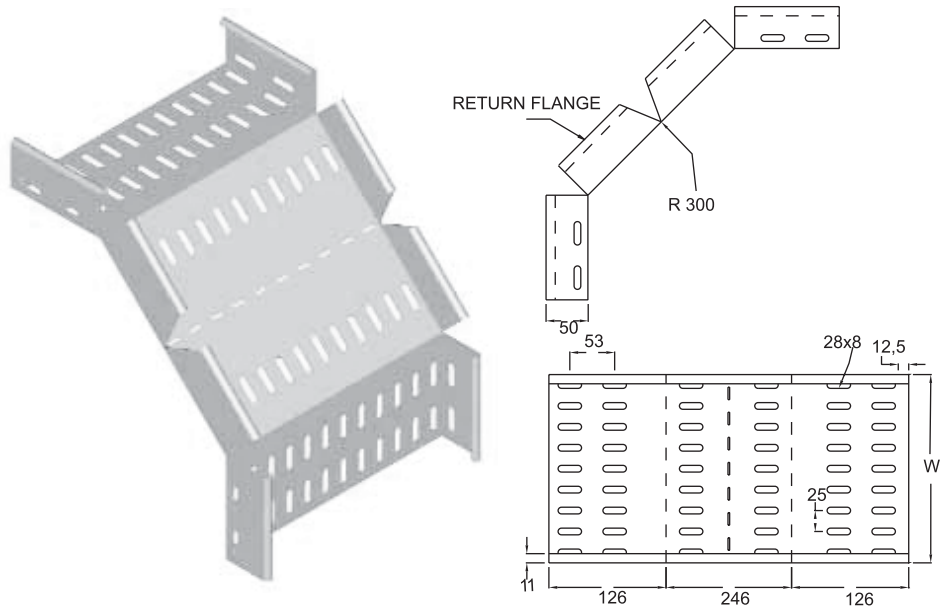
HDT - EXTERNAL RISER - 30° / 45° / 60° / 90°

PART REF
HDT / ER / 75 / A / Finish
HDT / ER / 100 / A / Finish
HDT / ER / 150 / A / Finish
HDT / ER / 225 / A / Finish
HDT / ER / 300 / A / Finish
HDT / ER / 450 / A / Finish
HDT / ER / 600 / A / Finish
HDT / ER / 750 / A / Finish
HDT / ER / 900 / A / Finish



HDT - ADJUSTABLE RISER

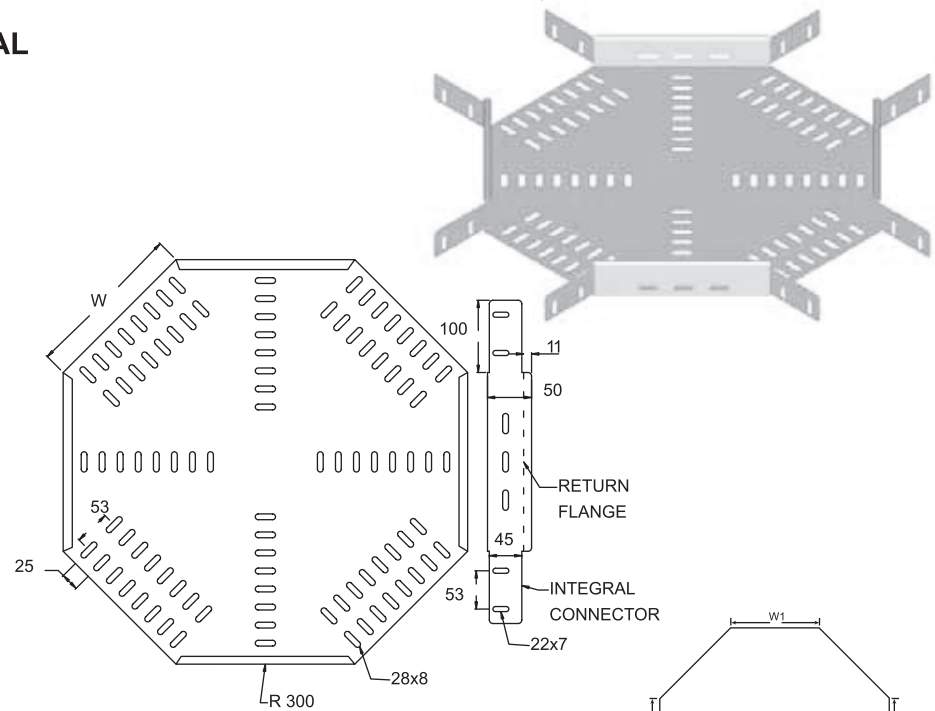
PART REF
HDT / AR / 75 / Finish
HDT / AR / 100 / Finish
HDT / AR / 150 / Finish
HDT / AR / 225 / Finish
HDT / AR / 300 / Finish
HDT / AR / 450 / Finish
HDT / AR / 600 / Finish
HDT / AR / 750 / Finish
HDT / AR / 900 / Finish



Extra long adjustable riser can be produced on request and is specified by HDT / XLAR / WIDTH / FINISH

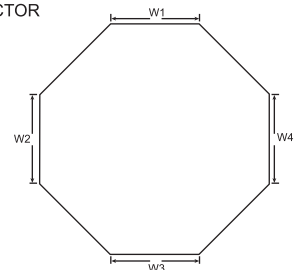
HDT - CROSS HORIZONTAL

PART REF
HDT / CH / 75 / Finish
HDT / CH / 100 / Finish
HDT / CH / 150 / Finish
HDT / CH / 225 / Finish
HDT / CH / 300 / Finish
HDT / CH / 450 / Finish
HDT / CH / 600 / Finish
HDT / CH / 750 / Finish
HDT / CH / 900 / Finish



HDT- UNEQUAL CROSS HORIZONTAL

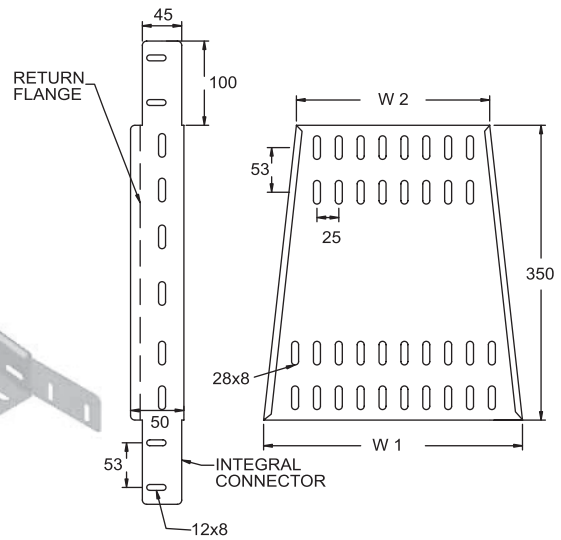
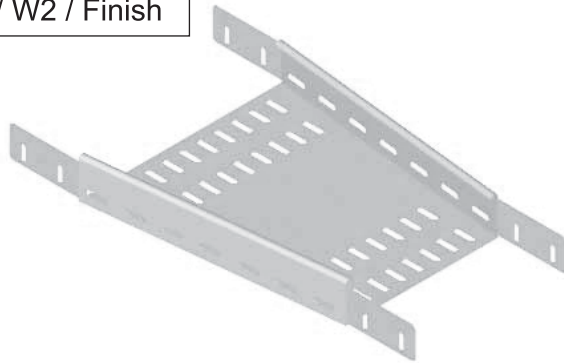
PART REF
HDT / UCH / W1 / W2 / W3 / W4 / Finish



- For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction as shown in the fig.
- Thickness for Unequal Cross to be followed of the larger size.

HDT - REDUCER STRAIGHT

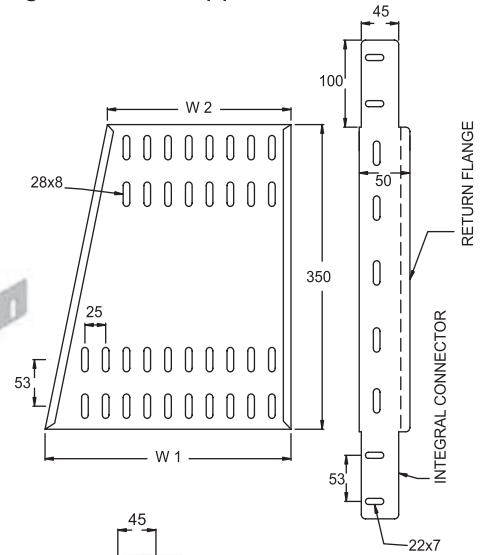
PART REF
HDT / RS / W1 / W2 / Finish



Reducing Connectors can also be used for reduction depending on the site application. For Reducing

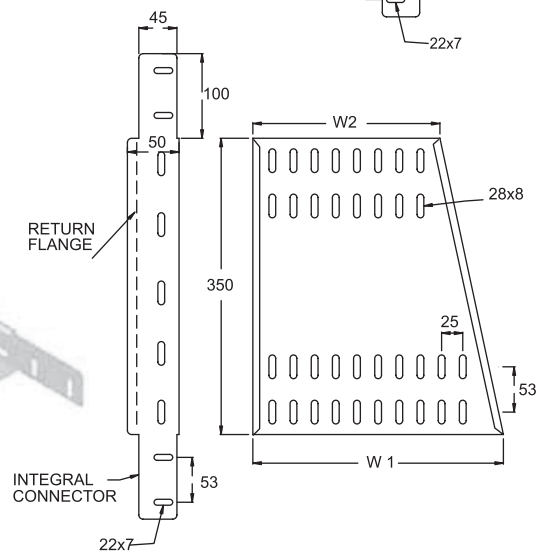
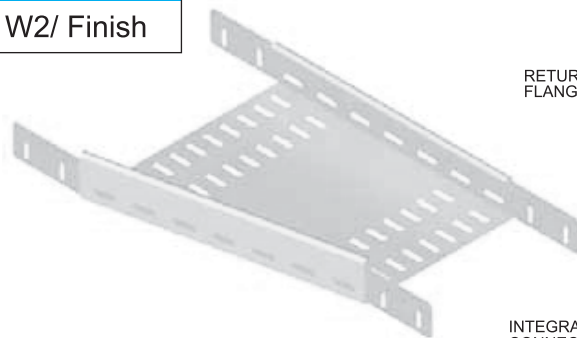
HDT - REDUCER RIGHT

PART REF
HDT / RR / W1 / W2 / Finish



HDT - REDUCER LEFT

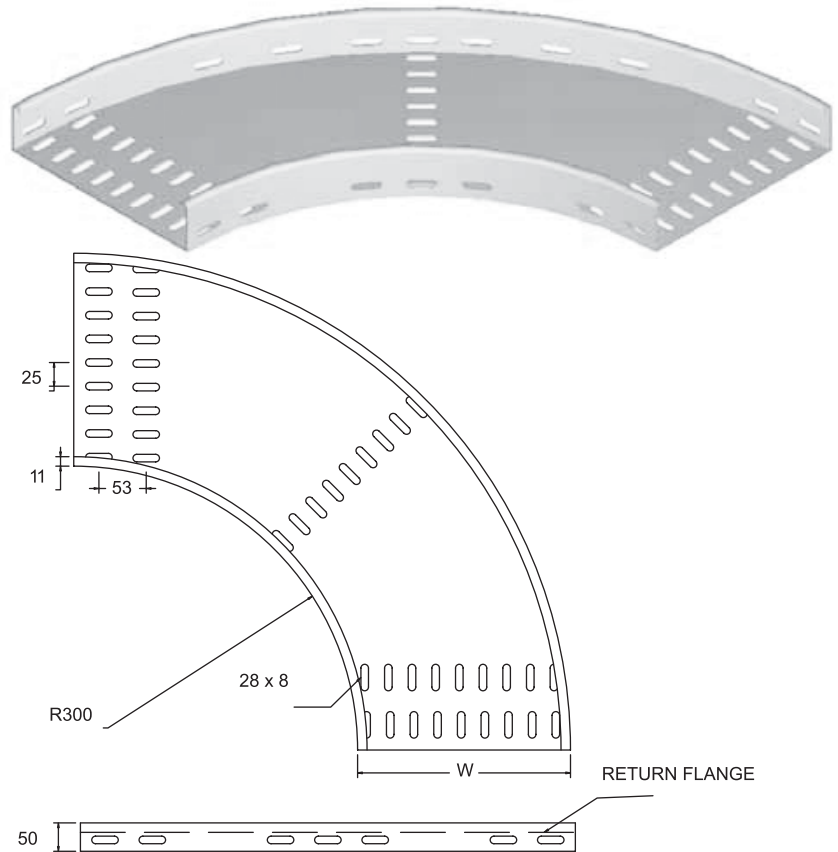
PART REF
HDT / RL / W1 / W2 / Finish



- Thickness for the Reducers to be followed of the larger size.
- Bonding Jumpers are used for the Earthing Connectivity.
- For Accessory Cover details

HDT - ELBOW HORIZONTAL 30° / 45° / 60° / 90°

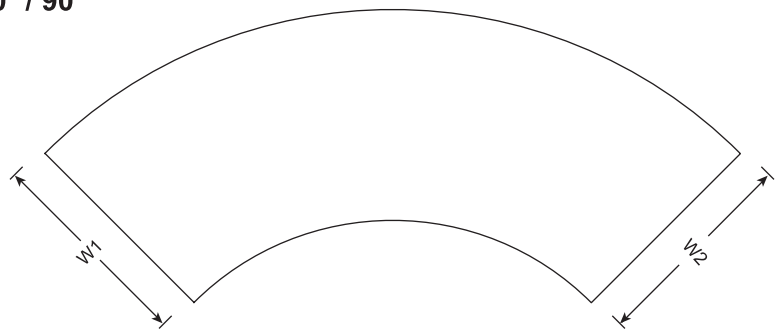
PART REF
HDT / EHR / 75 / A / Finish
HDT / EHR / 100 / A / Finish
HDT / EHR / 150 / A / Finish
HDT / EHR / 225 / A / Finish
HDT / EHR / 300 / A / Finish
HDT / EHR / 450 / A / Finish
HDT / EHR / 600 / A / Finish
HDT / EHR / 750 / A / Finish
HDT / EHR / 900 / A / Finish



- HDT Round Radial Accessories are joined by connectors.
- For details of thickness, width and finishes

HDT - UNEQUAL ELBOW - 30° / 45° / 60° / 90°

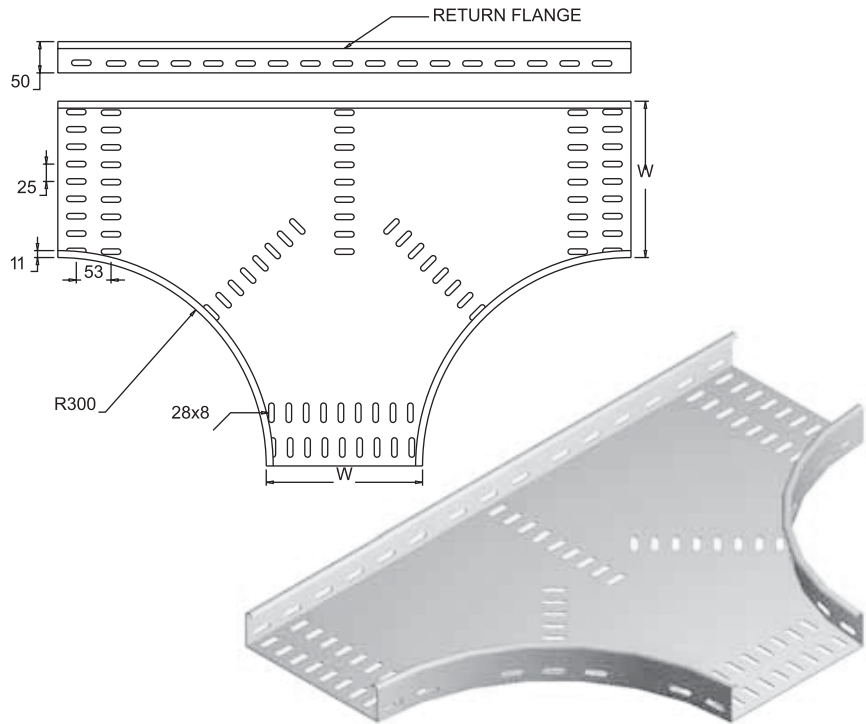
PART REF
HDT / UEHR / W1 / W2 / A / Finish



- For Un Equal elbow specify the widths as W1 & W2 as shown in the fig. Thickness for UEHR to be followed of the larger size.

HDT - TEE HORIZONTAL

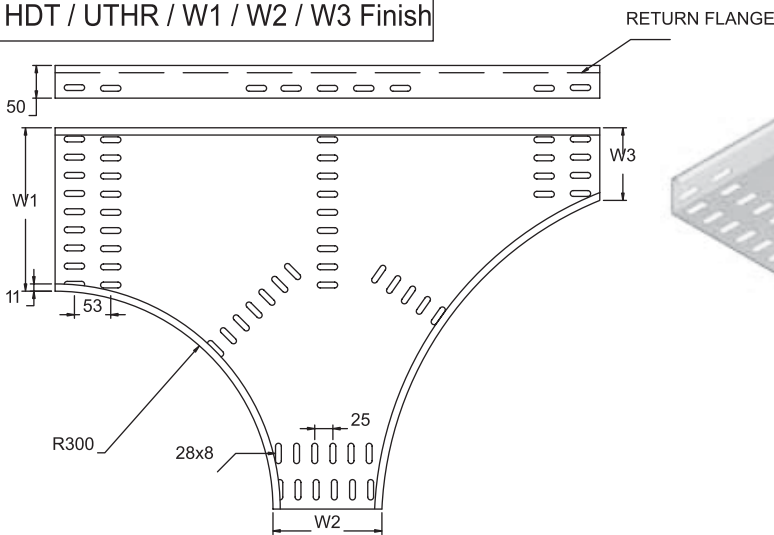
PART REF
HDT / THR / 75 / Finish
HDT / THR / 100 / Finish
HDT / THR / 150 / Finish
HDT / THR / 225 / Finish
HDT / THR / 300 / Finish
HDT / THR / 450 / Finish
HDT / THR / 600 / Finish
HDT / THR / 750 / Finish
HDT / THR / 900 / Finish



- For details on Thickness, Width & Finishes refer page 50.
- Fish Plates are recommended for the trays & accessories above 200mm widths for better load bearing capacity. For fish plates

HDT - UN EQUAL TEE

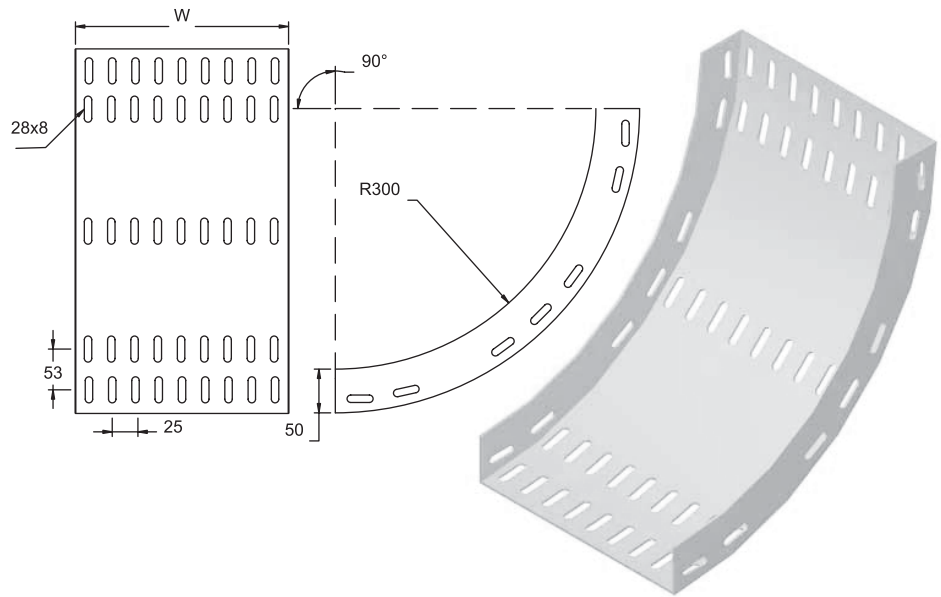
PART REF
HDT / UTHR / W1 / W2 / W3 Finish



- Unequal Tee can accommodate trays with different widths at one location.
- For Unequal Tee specify widths W1, W2, W3 anti clockwise as shown in the figure.
- Thickness for Unequal Tee to be followed of the larger size
- HDT Round Radial Accessories are joined by connectors. For details

HDT - INTERNAL RISER - 30° / 45° / 60° / 90°

PART REF
HDT / IRR / 75 / A / Finish
HDT / IRR / 100 / A / Finish
HDT / IRR / 150 / A / Finish
HDT / IRR / 225 / A / Finish
HDT / IRR / 300 / A / Finish
HDT / IRR / 450 / A / Finish
HDT / IRR / 600 / A / Finish
HDT / IRR / 750 / A / Finish
HDT / IRR / 900 / A / Finish



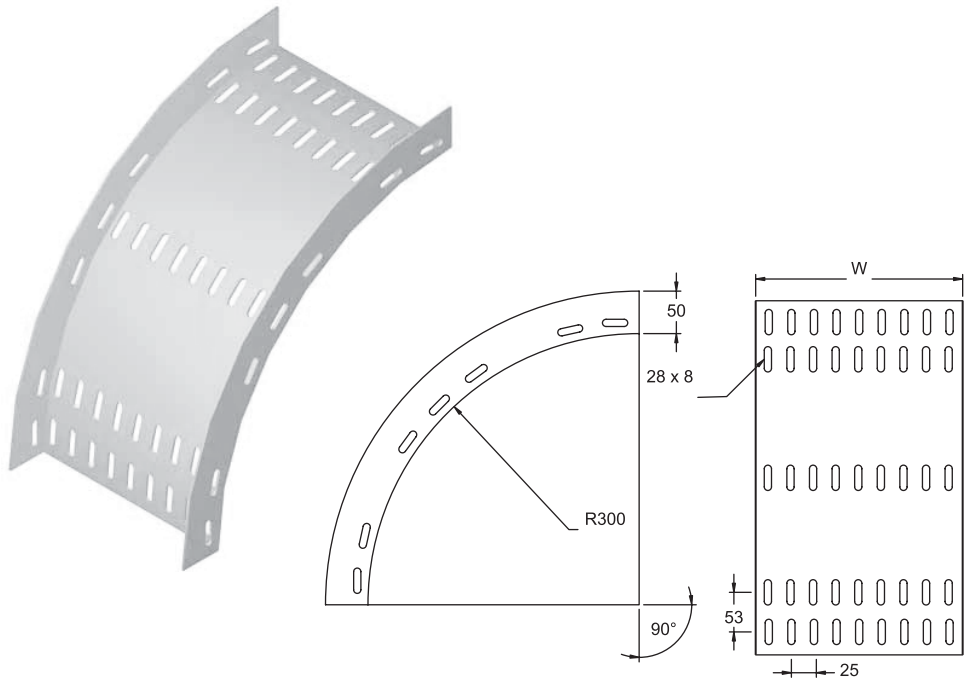
Risers are joined to HDT Trays by straight connectors.

Adjustable risers are produced on request and are specified by HDT / AR / Width / Finish.

Extra long Adjustable Risers are produced on request and are specified by HDT / XLAR / Width / Finish.

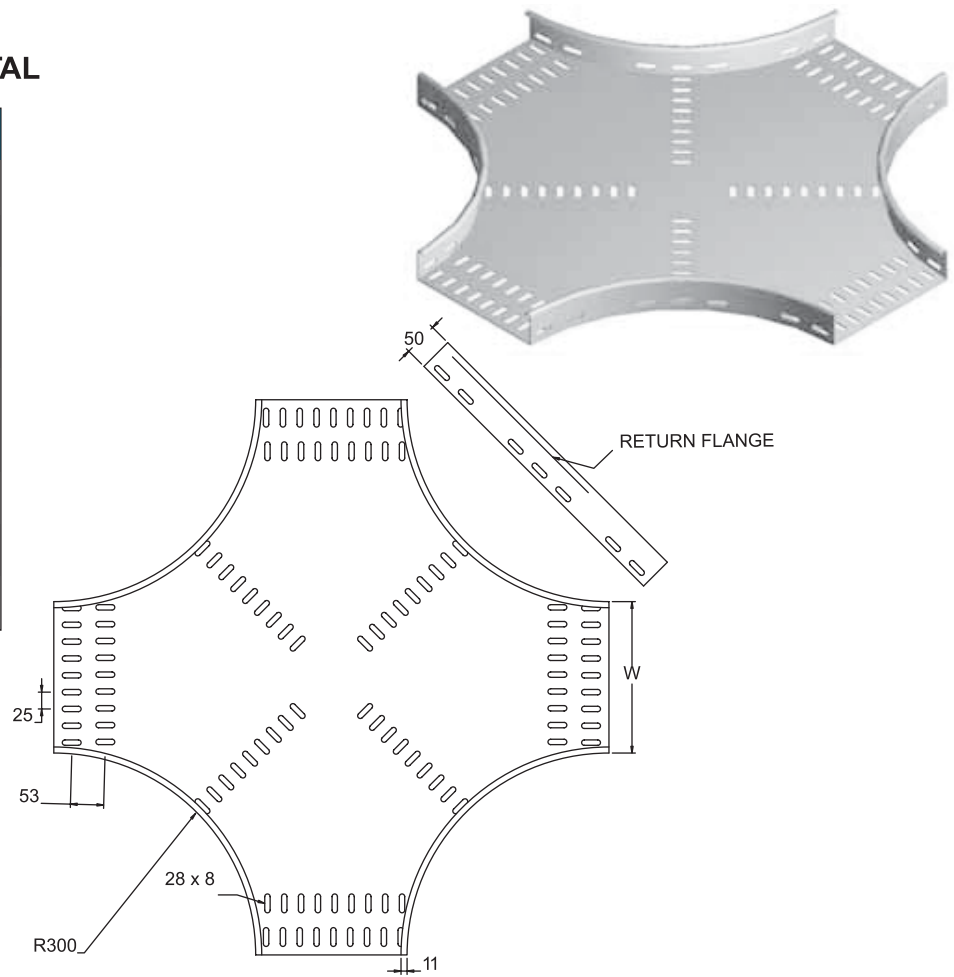
HDT - EXTERNAL RISER - 30° / 45° / 60° / 90°

PART REF
HDT / ERR / 75 / A / Finish
HDT / ERR / 100 / A / Finish
HDT / ERR / 150 / A / Finish
HDT / ERR / 225 / A / Finish
HDT / ERR / 300 / A / Finish
HDT / ERR / 450 / A / Finish
HDT / ERR / 600 / A / Finish
HDT / ERR / 750 / A / Finish
HDT / ERR / 900 / A / Finish



HDT - CROSS HORIZONTAL

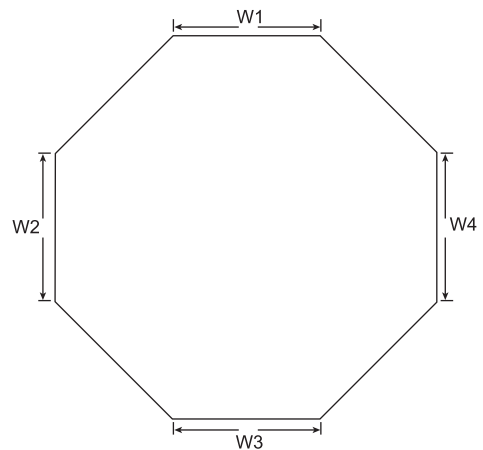
PART REF
HDT / CHR / 75 / Finish
HDT / CHR / 100 / Finish
HDT / CHR / 150 / Finish
HDT / CHR / 225 / Finish
HDT / CHR / 300 / Finish
HDT / CHR / 450 / Finish
HDT / CHR / 600 / Finish
HDT / CHR / 750 / Finish
HDT / CHR / 900 / Finish



- HDT Round Radial accessories are joined by connectors.
- Round Radial Accessory Covers can be produced on request.

HDT- UNEQUAL CROSS HORIZONTAL

PART REF
HDT / UCHR / W1 / W2 / W3 / W4 / Finish



- For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction as shown in the fig.
- Thickness for Unequal Cross to be followed of the larger size.
- For HDT reducer details.

WEIGHT OF THE COMPONENTS

HDT-CABLE TRAY

WIDTH(mm)	WT. (Kgs.)
75	4.420
100	4.950
150	6.010
225	9.095
300	10.992
450	18.508
600	23.225
750	37.323
900	43.598

STRAIGHT CONNECTOR

WIDTH(mm)	WT. (Kgs.)
75 to 300	0.160
450 to 900	0.213

FLANGE CONNECTOR

WIDTH(mm)	WT. (Kgs.)
75 to 300	0.229
450 to 900	0.305

COVERS FOR STRAIGHT LENGTHS

WIDTH(mm)	WT. (Kgs.)
75	2.735
100	3.233
150	4.484
225	6.371
300	8.226
450	14.363
600	18.847
750	29.055
900	34.673

HDT - ELBOW HORIZONTAL

WIDTH (mm) °	WEIGHT IN KGS.	
	45	90°
75	0.329	0.615
100	0.392	0.710
150	0.445	0.922
225	0.795	1.548
300	1.081	2.099
450	2.215	4.335
600	3.286	6.455
750	6.477	12.890
900	8.204	16.335

HDT - EXTERNAL RISER

WIDTH (mm) °	WEIGHT IN KGS.	
	45	90°
75	0.382	0.763
100	0.413	0.859
150	0.498	1.049
225	0.774	1.601
300	0.806	1.940
450	1.643	3.286
600	2.078	4.145
750	3.328	6.657
900	3.901	7.802

HDT - INTERNAL RISER

WIDTH (mm) °	WEIGHT IN KGS.	
	45	90°
75	0.412	0.848
100	0.468	0.965
150	0.607	1.187
225	0.938	1.834
300	1.210	2.237
450	1.677	3.816
600	2.450	4.823
750	3.891	7.780
900	4.601	9.137

HDT - CROSS HORIZONTAL

WIDTH(mm)	WT. (Kgs.)
75	1.823
100	1.950
150	2.205
225	3.371
300	4.219
450	7.770
600	10.876
750	19.451
900	25.111

HDT - TEE HORIZONTAL

WIDTH(mm)	WT. (Kgs.)
75	1.304
100	1.420
150	1.685
225	2.692
300	3.477
450	6.678
600	9.604
750	17.617
900	22.737

FOR STRAIGHT LENGTHS AND ACCESSORIES

Range / Width (W)	Thickness (T)	Side Height (H)
All dimensions are in mm		
100 to 300	1.5	75
450 to 900	2.0	75

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

- Extra Heavy duty inside return flange cable trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request.
- Extra Heavy duty inside return 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.
- Accessory cover and clamp details have been provided at the end of cable tray chapter.

COVERS FOR STRAIGHT LENGTHS AND ACCESSORIES

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

ORDER PATTERN

To select the required component, please specify the type, component, width, finish. Angles can be mentioned wherever necessary.

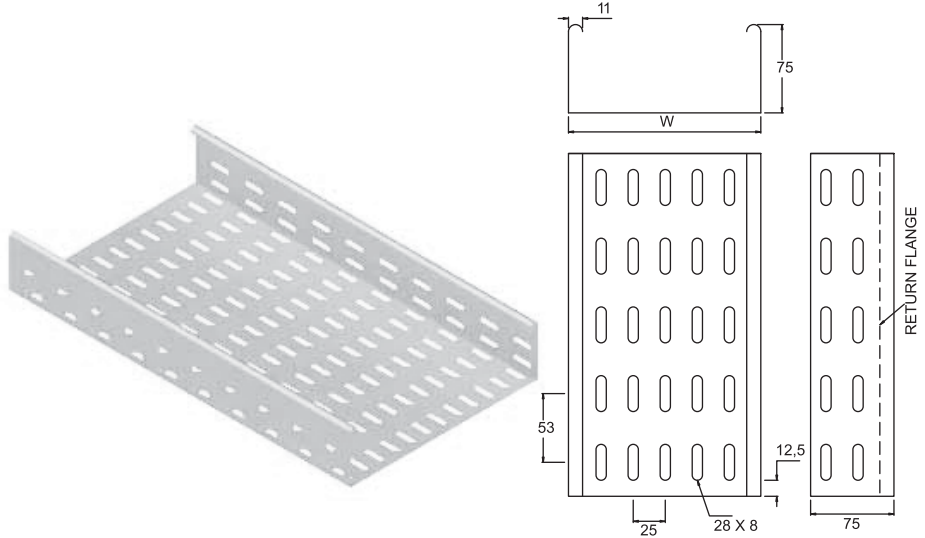
EXAMPLE:

TYPE / COMPONENT / WIDTH / FINISH (without angle) XDT / COM / WIDTH / HDG

TYPE / COMPONENT / WIDTH / ANGLE / FINISH (with angle) XDT / COM / WIDTH / A / HDG

EXTRA HEAVY DUTY INSIDE RETURN FLANGE TRAY - (XDT)

PART REF
XDT / CT / 100 / Finish
XDT / CT / 150 / Finish
XDT / CT / 225 / Finish
XDT / CT / 300 / Finish
XDT / CT / 450 / Finish
XDT / CT / 600 / Finish
XDT / CT / 750 / Finish
XDT / CT / 900 / Finish



XDT Cable Trays are produced with inside return flange for extra heavy duty applications.

CONNECTORS

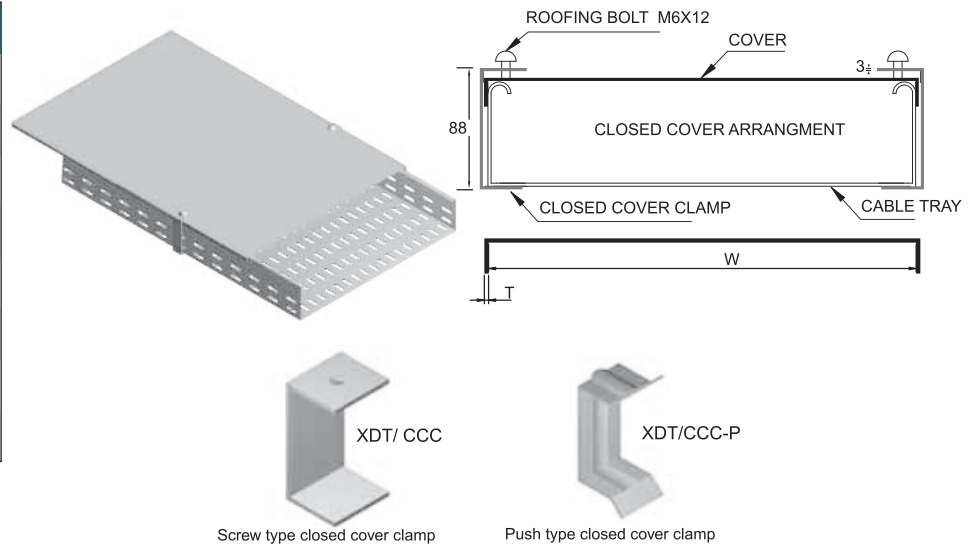
XDT CableTrays are joined together by straight & flange connectors. Connectors are supplied in pairs with a set of M6 x 12 roofing bolts, nuts and washers. Load graphs provided in the manual are based on XDT/SC. To be ordered separately.

STRAIGHT CONNECTOR		FLANGE CONNECTOR																									
<table border="1"> <thead> <tr> <th>PART REF</th> </tr> </thead> <tbody> <tr> <td>XDT / SC / Width / Finish</td> </tr> </tbody> </table>		PART REF	XDT / SC / Width / Finish	<table border="1"> <thead> <tr> <th>PART REF</th> </tr> </thead> <tbody> <tr> <td>XDT / FC / Width / Finish</td> </tr> </tbody> </table>		PART REF	XDT / FC / Width / Finish																				
PART REF																											
XDT / SC / Width / Finish																											
PART REF																											
XDT / FC / Width / Finish																											
<table border="1"> <thead> <tr> <th>Width (mm)</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr> <td>100 to 300</td> <td>1.5</td> </tr> <tr> <td>450 to 900</td> <td>2.0</td> </tr> </tbody> </table>	Width (mm)	Thickness (mm)	100 to 300	1.5	450 to 900	2.0	<table border="1"> <thead> <tr> <th>Width (mm)</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr> <td>100 to 300</td> <td>1.5</td> </tr> <tr> <td>450 to 900</td> <td>2.0</td> </tr> </tbody> </table>	Width (mm)	Thickness (mm)	100 to 300	1.5	450 to 900	2.0	<table border="1"> <thead> <tr> <th>Width (mm)</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr> <td>100 to 300</td> <td>1.5</td> </tr> <tr> <td>450 to 900</td> <td>2.0</td> </tr> </tbody> </table>	Width (mm)	Thickness (mm)	100 to 300	1.5	450 to 900	2.0	<table border="1"> <thead> <tr> <th>Width (mm)</th> <th>Thickness (mm)</th> </tr> </thead> <tbody> <tr> <td>100 to 300</td> <td>1.5</td> </tr> <tr> <td>450 to 900</td> <td>2.0</td> </tr> </tbody> </table>	Width (mm)	Thickness (mm)	100 to 300	1.5	450 to 900	2.0
Width (mm)	Thickness (mm)																										
100 to 300	1.5																										
450 to 900	2.0																										
Width (mm)	Thickness (mm)																										
100 to 300	1.5																										
450 to 900	2.0																										
Width (mm)	Thickness (mm)																										
100 to 300	1.5																										
450 to 900	2.0																										
Width (mm)	Thickness (mm)																										
100 to 300	1.5																										
450 to 900	2.0																										

- Flange connectors are provided for extra strength. Flange connectors wrap up the trays from outside and increases the load bearing capacity of the tray.
- Select an appropriate connector to suit your requirements.

CABLE TRAY CLOSED COVERS

PART REF
XDT / CTCC / 100 / Finish
XDT / CTCC / 150 / Finish
XDT / CTCC / 225 / Finish
XDT / CTCC / 300 / Finish
XDT / CTCC / 450 / Finish
XDT / CTCC / 600 / Finish
XDT / CTCC / 750 / Finish
XDT / CTCC / 900 / Finish

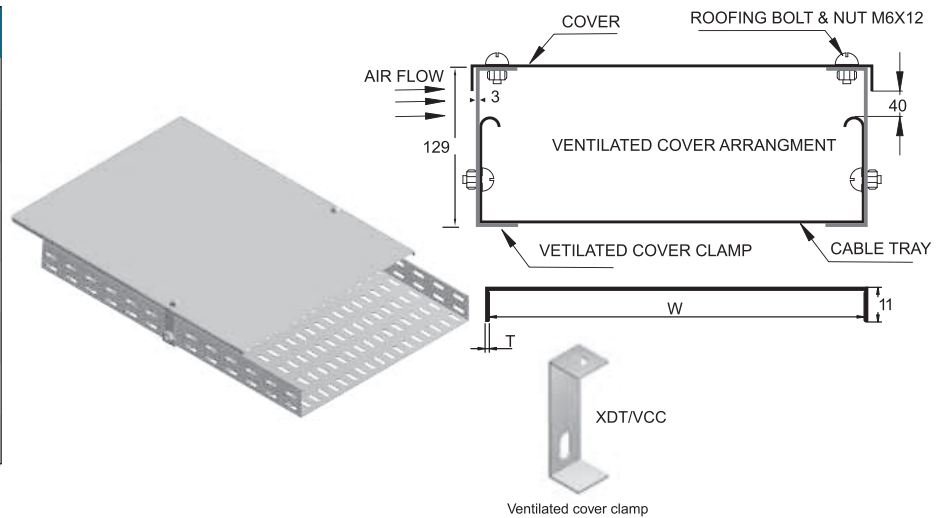


CLOSED COVER CLAMP

Screw type closed cover clamp XDT/CCC is supplied for closed cover arrangement with the set of M6 x 12 roofing bolt. XDT/CCC-P is a push type option and requires no bolts. To be ordered separately.

CABLE TRAY VENTILATED COVERS

PART REF
XDT / CTVC / 100 / Finish
XDT / CTVC / 150 / Finish
XDT / CTVC / 225 / Finish
XDT / CTVC / 300 / Finish
XDT / CTVC / 450 / Finish
XDT / CTVC / 600 / Finish
XDT / CTVC / 750 / Finish
XDT / CTVC / 900 / Finish

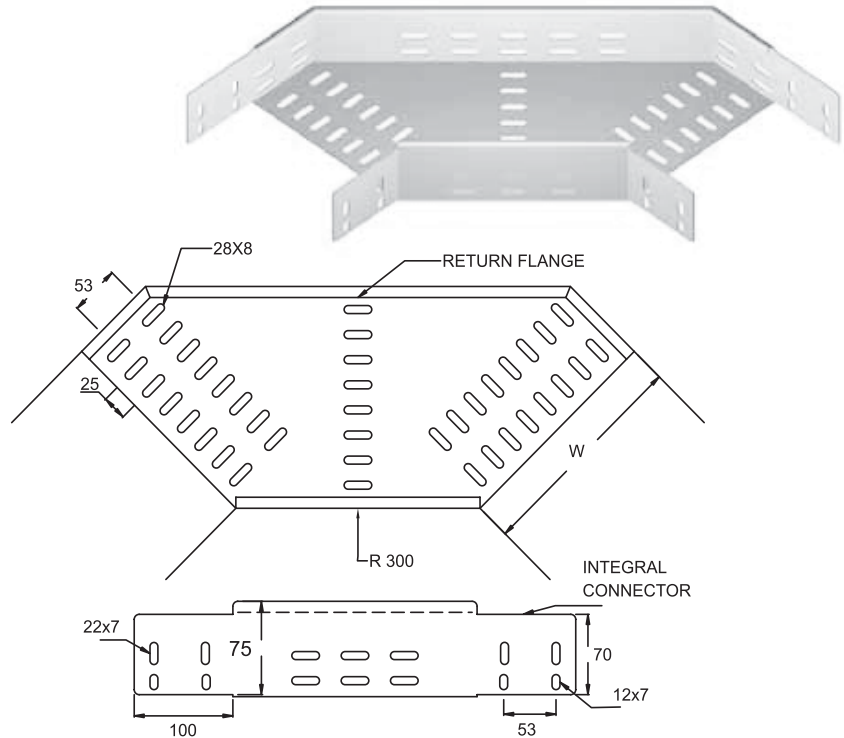


VENTILATED COVER CLAMP

Ventilated cover clamp XDT/VCC is supplied for Ventilated cover arrangement with the set of M6 x 12 roofing bolts, nuts & washers. To be order separately.

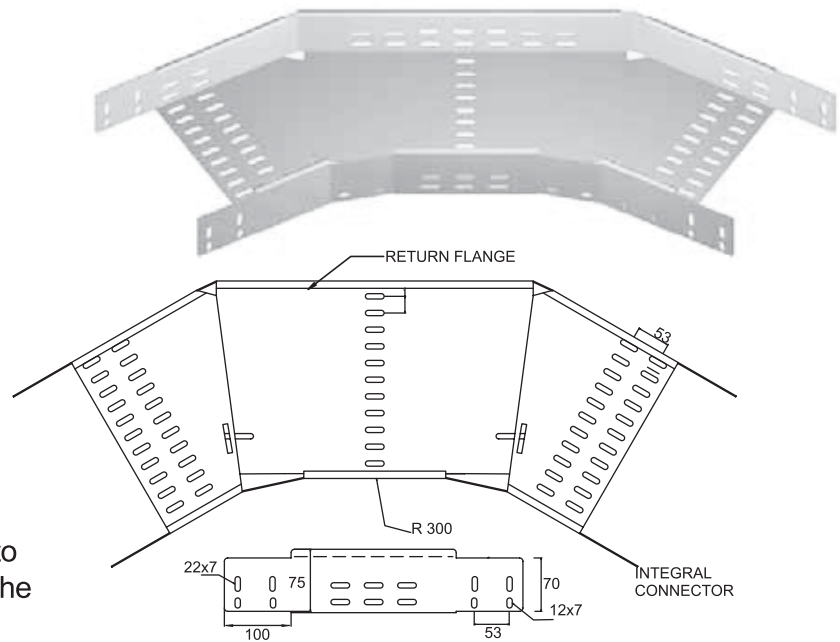
XDT - ELBOW HORIZONTAL 30° / 45° / 60° / 90°

PART REF
XDT / EH / 100 / A / Finish
XDT / EH / 150 / A / Finish
XDT / EH / 225 / A / Finish
XDT / EH / 300 / A / Finish
XDT / EH / 450 / A / Finish
XDT / EH / 600 / A / Finish
XDT / EH / 750 / A / Finish
XDT / EH / 900 / A / Finish



XDT - ADJUSTABLE ELBOW

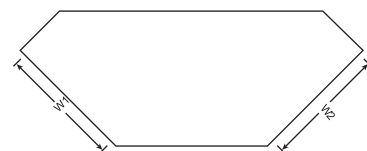
PART REF
XDT / AEH / 100 / Finish
XDT / AEH / 150 / Finish
XDT / AEH / 225 / Finish
XDT / AEH / 300 / Finish
XDT / AEH / 450 / Finish
XDT / AEH / 600 / Finish
XDT / AEH / 750 / Finish
XDT / AEH / 900 / Finish



- Adjustable Elbow can be fixed to any desired angle depending on the site conditions.

XDT - UNEQUAL ELBOW - 30° / 45° / 60° / 90°

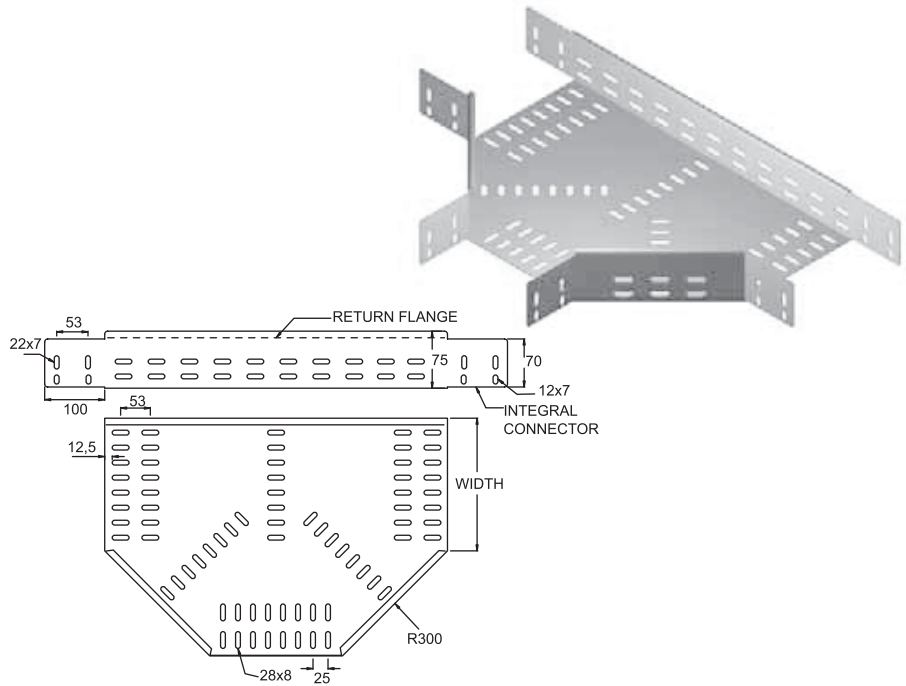
PART REF
XDT / UEH / W1/W2 / A / Finish



- For Unequal Elbow specify the widths as W1 & W2 as shown in the fig.
- Thickness for UEH to be followed of the larger size.

XDT - TEE HORIZONTAL

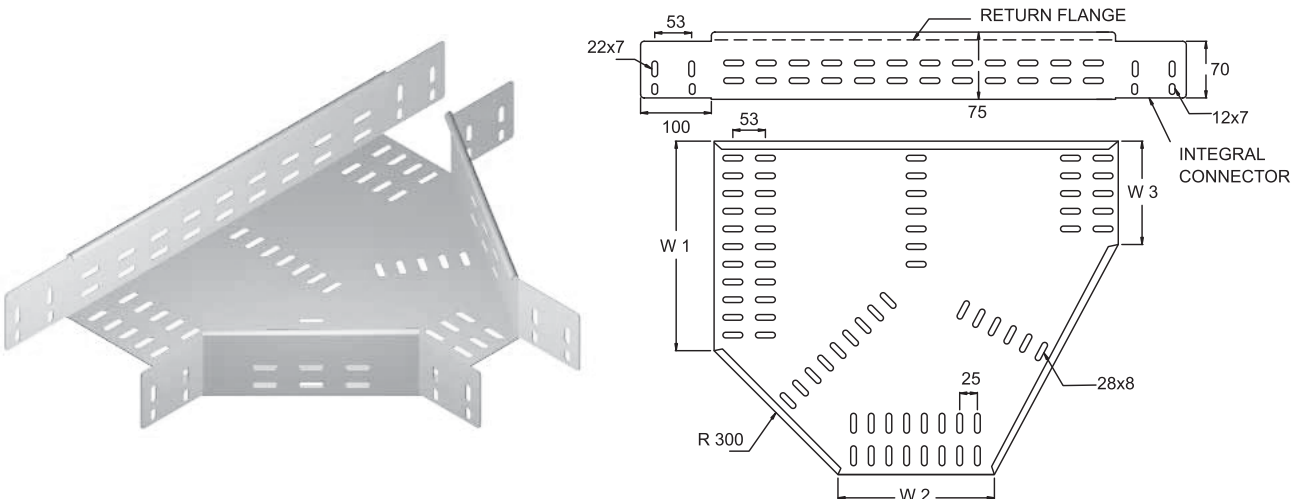
PART REF
XDT / TH / 100 / Finish
XDT / TH / 150 / Finish
XDT / TH / 225 / Finish
XDT / TH / 300 / Finish
XDT / TH / 450 / Finish
XDT / TH / 600 / Finish
XDT / TH / 750 / Finish
XDT / TH / 900 / Finish



- METAR Tray accessories are produced in a single piece and carries no welding. This design gives the component extra strength, rigidity and ease of installation.
- For support system for the installation, please refer Metal strut framing system of this manual.
- METAR - Tray accessories are produced with integral connectors. No separate connectors are required.

XDT - UN EQUAL TEE

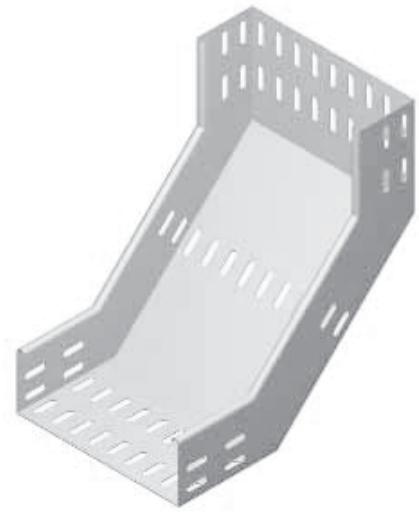
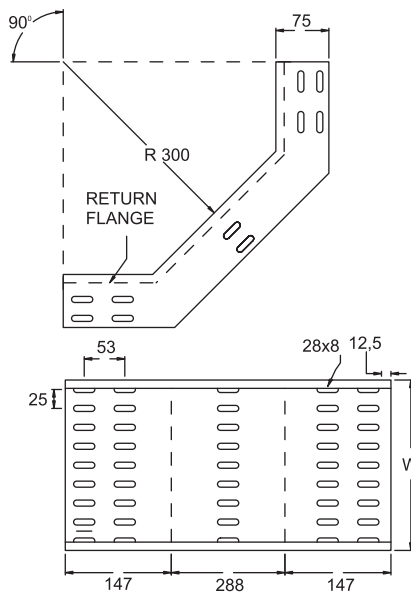
PART REF
XDT / UTH / W1 / W2 / W3 Finish



- For Unequal Tee specify widths W1, W2, W3 anti clockwise.
- Thickness for Unequal Tee to be followed of the larger size.
- Unequal Tee can accomodate trays with different widths at one location.

XDT - INTERNAL RISER - 30° / 45° / 60° / 90°

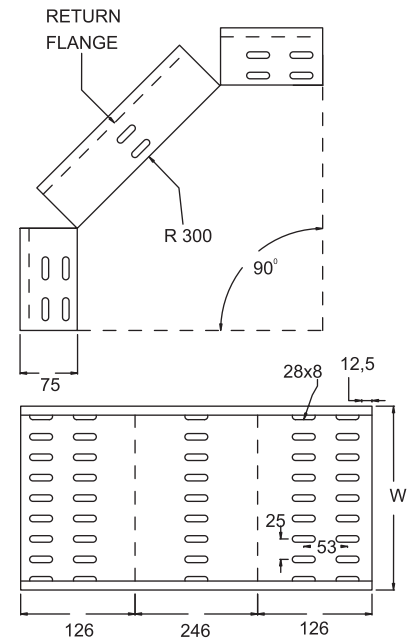
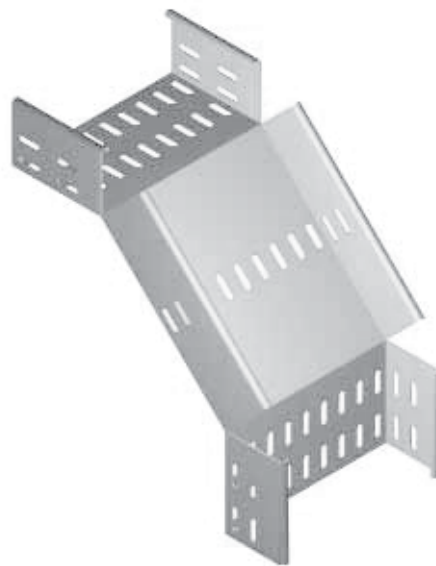
PART REF
XDT / IR / 100 / A / Finish
XDT / IR / 150 / A / Finish
XDT / IR / 225 / A / Finish
XDT / IR / 300 / A / Finish
XDT / IR / 450 / A / Finish
XDT / IR / 600 / A / Finish
XDT / IR / 750 / A / Finish
XDT / IR / 900 / A / Finish



- Bonding Jumpers are used for the Earthing Connectivity.
- For special gauges, sizes or design, consult our sales team or factory.

XDT - EXTERNAL RISER - 30° / 45° / 60° / 90°

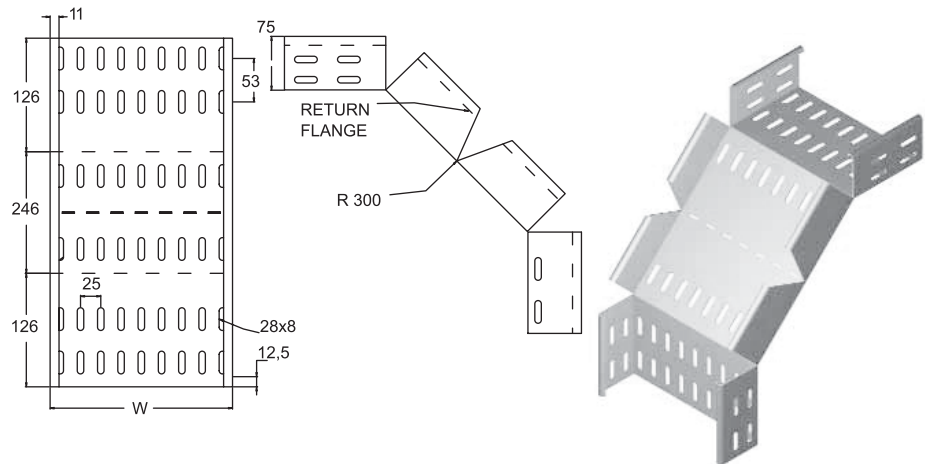
PART REF
XDT / ER / 100 / A / Finish
XDT / ER / 150 / A / Finish
XDT / ER / 225 / A / Finish
XDT / ER / 300 / A / Finish
XDT / ER / 450 / A / Finish
XDT / ER / 600 / A / Finish
XDT / ER / 750 / A / Finish
XDT / ER / 900 / A / Finish



- Risers are joined to XDT Trays by straight & flange connectors.
- Fish Plates are recommended for the trays & accessories above 200mm widths for better load bearing capacity.
- METAR Tray accessories are produced in a single piece and carries no welding. This design gives the component extra strength, rigidity and ease of installation.

XDT - ADJUSTABLE RISER

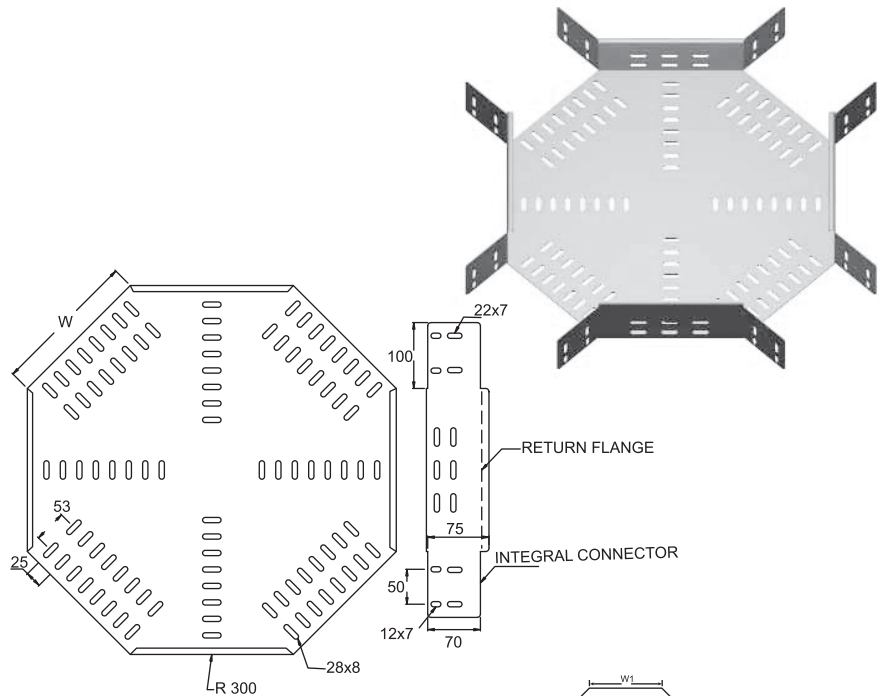
PART REF
XDT / AR / 100 / Finish
XDT / AR / 150 / Finish
XDT / AR / 225 / Finish
XDT / AR / 300 / Finish
XDT / AR / 450 / Finish
XDT / AR / 600 / Finish
XDT / AR / 750 / Finish
XDT / AR / 900 / Finish



Extra long adjustable riser can be produced on request and is specified by XDT / XLAR / WIDTH / FINISH

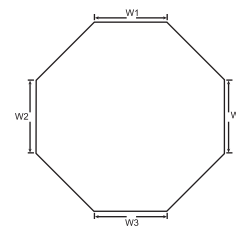
XDT - CROSS HORIZONTAL

PART REF
XDT / CH / 100 / Finish
XDT / CH / 150 / Finish
XDT / CH / 225 / Finish
XDT / CH / 300 / Finish
XDT / CH / 450 / Finish
XDT / CH / 600 / Finish
XDT / CH / 750 / Finish
XDT / CH / 900 / Finish



XDT - UNEQUAL CROSS HORIZONTAL

PART REF
XDT / UCH / W1 / W2 / W3 / W4 / Finish

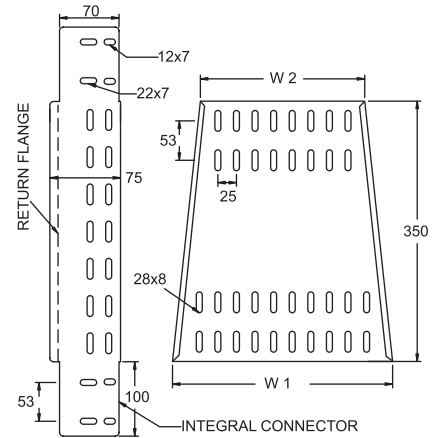
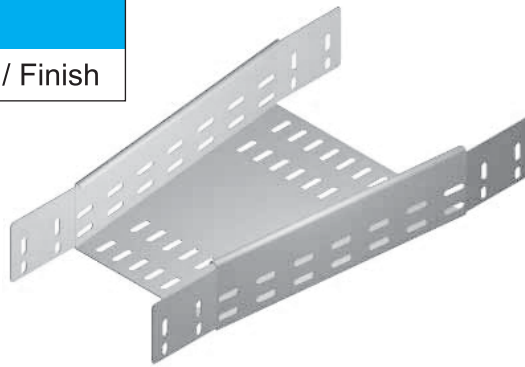


- For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction as shown in the fig.
- Thickness for UCH to be followed of the larger size.
- Bonding Jumpers are used for the Earthing Connectivity.

XDT - REDUCER STRAIGHT

PART REF

XDT / RS / W1 / W2 / Finish

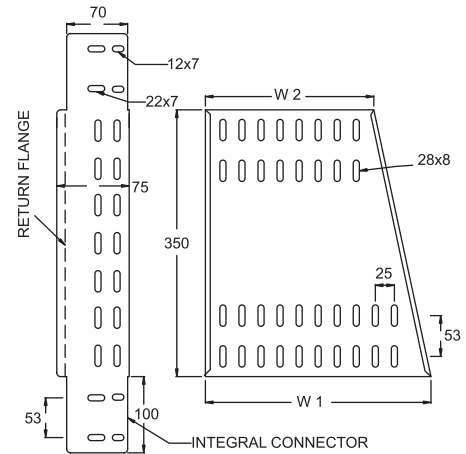
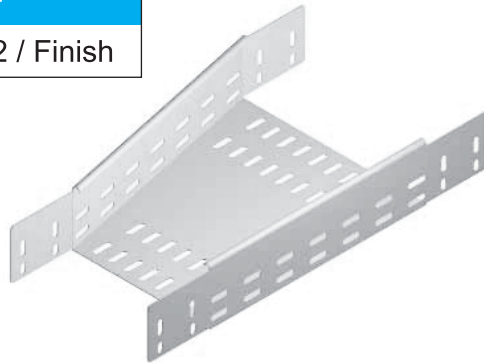


Reducing Connectors can also be used for reduction, depending on the site application. For Reducing

XDT - REDUCER RIGHT

PART REF

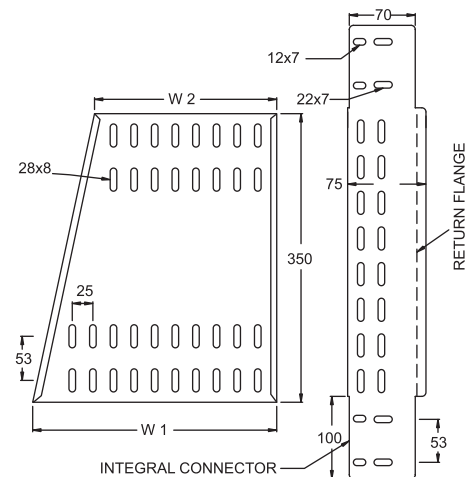
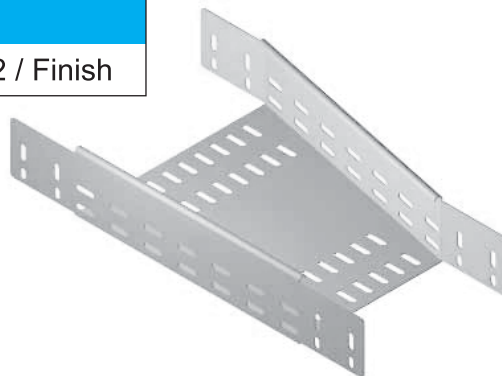
XDT / RR / W1 / W2 / Finish



XDT - REDUCER LEFT

PART REF

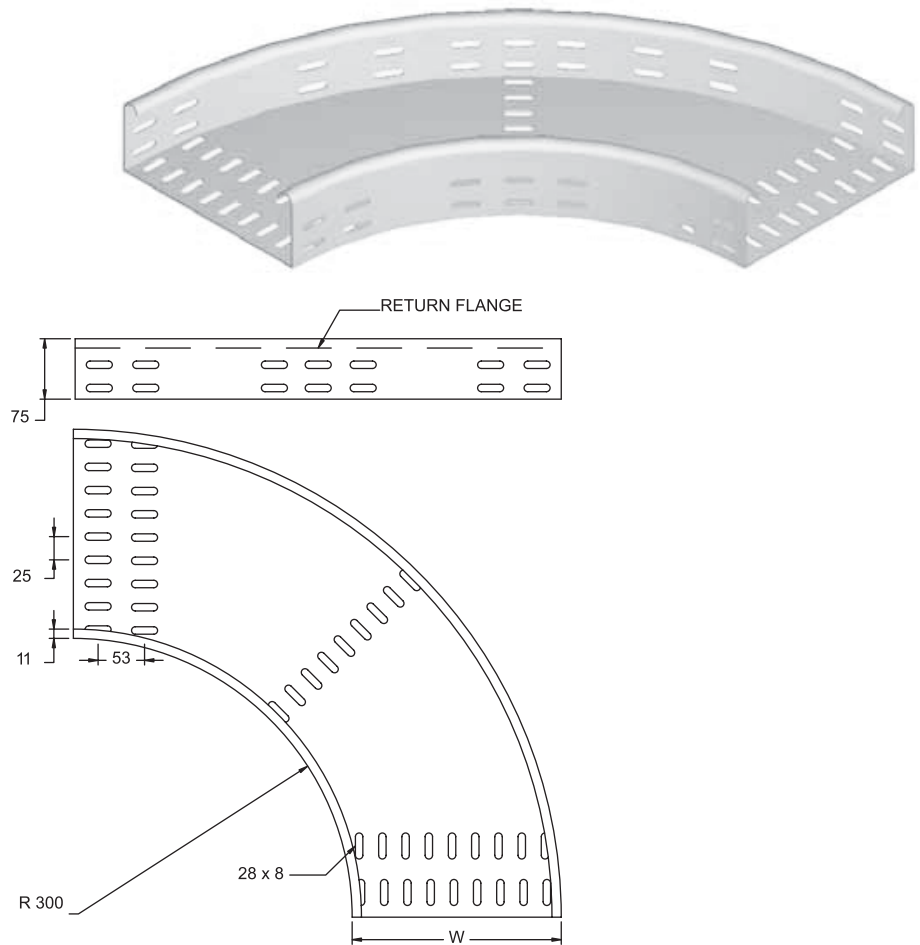
XDT / RL / W1 / W2 / Finish



- Thickness for the Reducers to be followed of the larger size.
- METAR - Tray accessories are produced with integral connectors. No separate connectors are required.
- Bonding Jumpers are used for the Earthing Connectivity.

XDT - ELBOW HORIZONTAL 30 ° / 45° / 60° / 90°

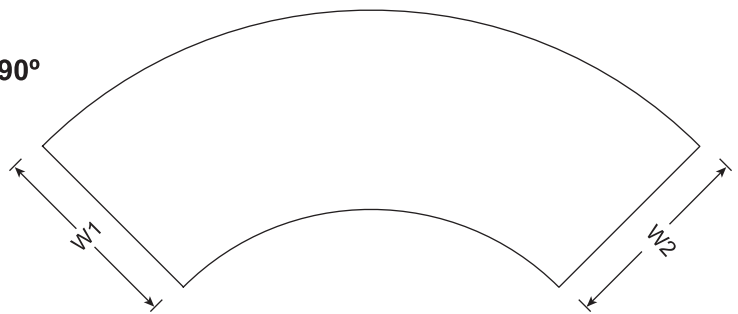
PART REF
XDT / EHR / 100 / A / Finish
XDT / EHR / 150 / A / Finish
XDT / EHR / 225 / A / Finish
XDT / EHR / 300 / A / Finish
XDT / EHR / 450 / A / Finish
XDT / EHR / 600 / A / Finish
XDT / EHR / 750 / A / Finish
XDT / EHR / 900 / A / Finish



- XDT Round Radial Accessories are joined by connectors.
- For details of Thickness, Width & Finish.

XDT - UNEQUAL ELBOW - 30 ° / 45° / 60° / 90°

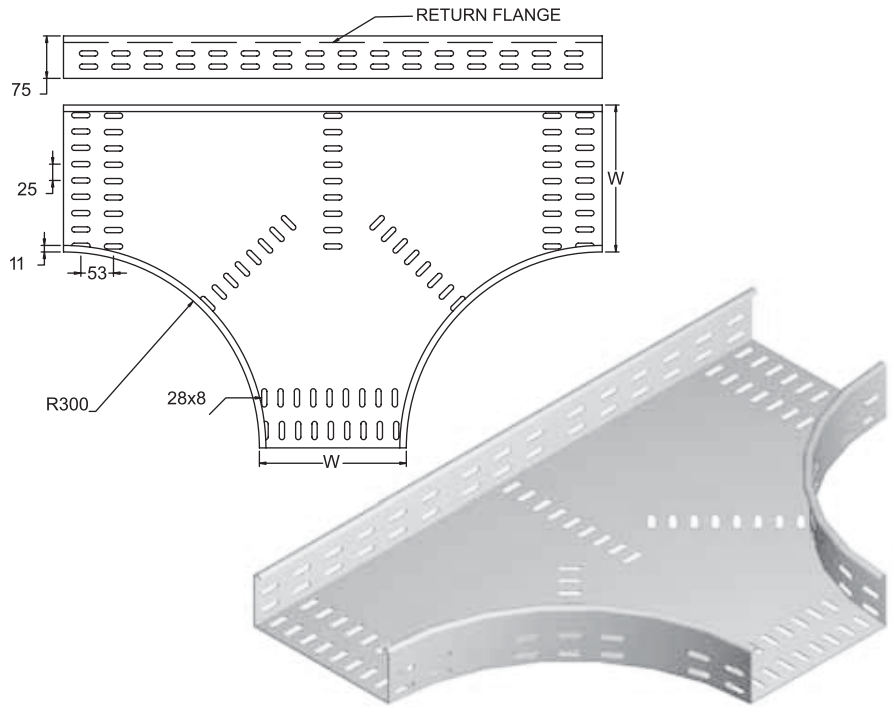
PART REF
XDT / UEHR / W1 / W2 / A / Finish



- For Unequal Elbow specify the widths as W1 & W2 as shown in the fig.
- Thickness for UEHR to be followed of the larger size.

XDT - TEE HORIZONTAL

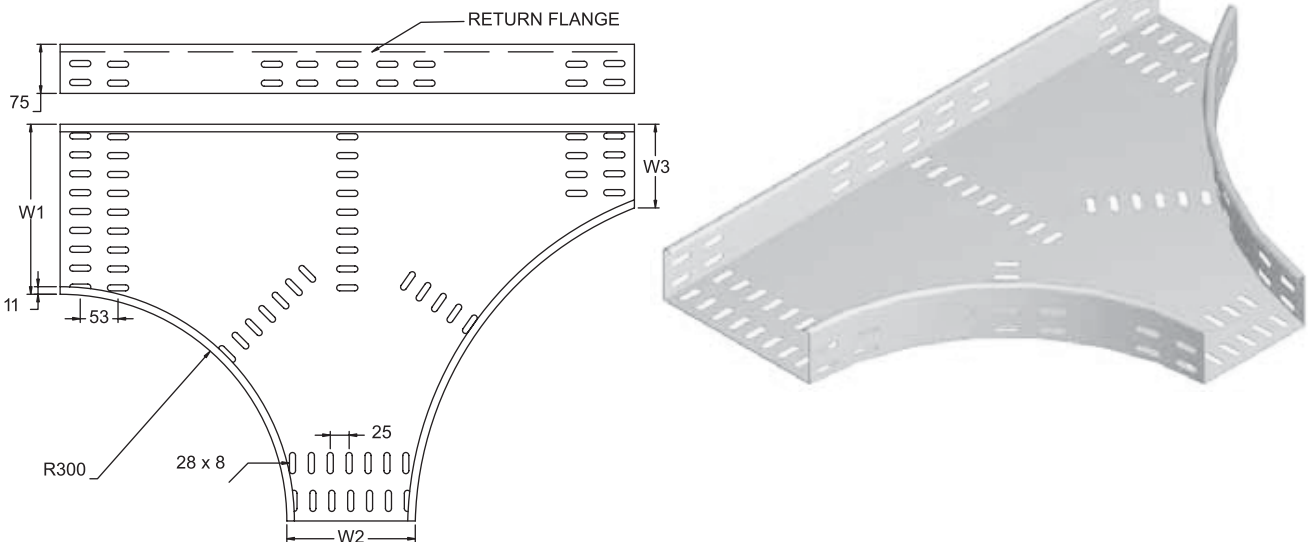
PART REF
XDT / THR / 100 / Finish
XDT / THR / 150 / Finish
XDT / THR / 225 / Finish
XDT / THR / 300 / Finish
XDT / THR / 450 / Finish
XDT / THR / 600 / Finish
XDT / THR / 750 / Finish
XDT / THR / 900 / Finish



- XDT Round Radial Accessories are joined by connectors.
- For support system for the installation, please refer Metal strut framing system of this manual.
- XDT Round Radial Accessory covers are produced on request.

XDT - UN EQUAL TEE

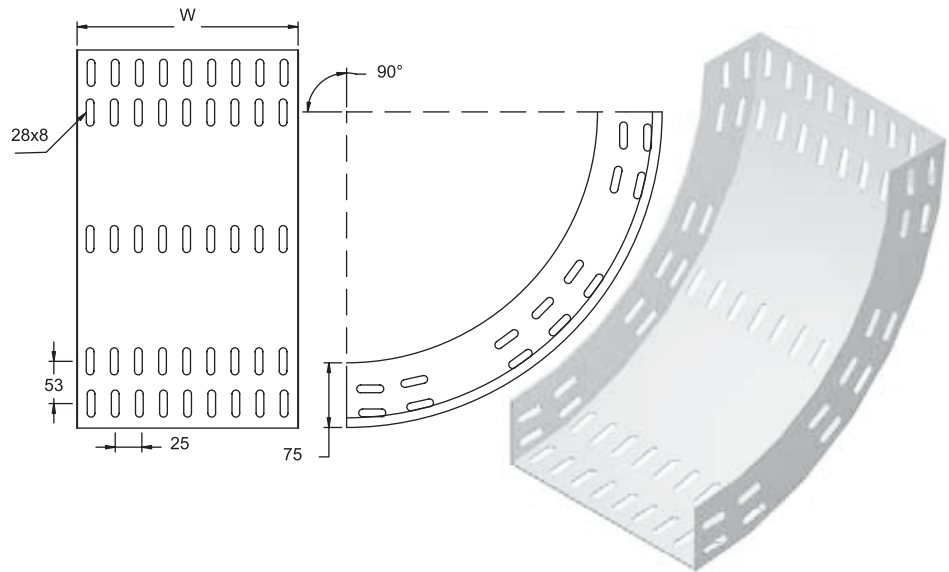
PART REF
XDT / UTHR / W1 / W2 / W3 Finish



- For Unequal Tee specify widths W1, W2, W3 anti clockwise.
- Thickness for Unequal Tee to be followed of the larger size.
- Unequal Tee can accommodate trays with different widths at one location.

XDT - INTERNAL RISER - 30° / 45° / 60° / 90°

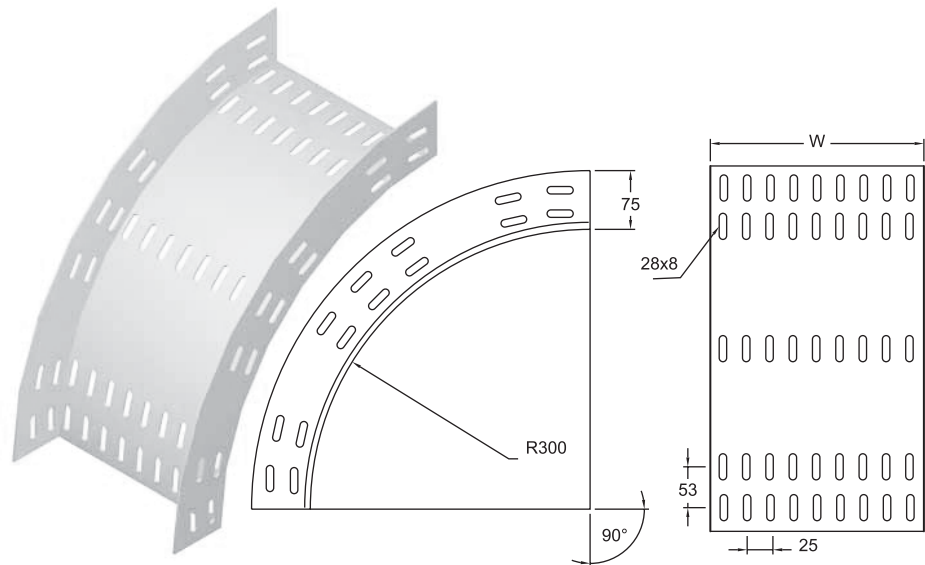
PART REF
XDT / IRR / 100 / A / Finish
XDT / IRR / 150 / A / Finish
XDT / IRR / 225 / A / Finish
XDT / IRR / 300 / A / Finish
XDT / IRR / 450 / A / Finish
XDT / IRR / 600 / A / Finish
XDT / IRR / 750 / A / Finish
XDT / IRR / 900 / A / Finish



- Bonding Jumpers are used for the Earthing Connectivity.
- For special guages, sizes or design, consult our sales team or factory.

XDT - EXTERNAL RISER - 30° / 45° / 60° / 90°

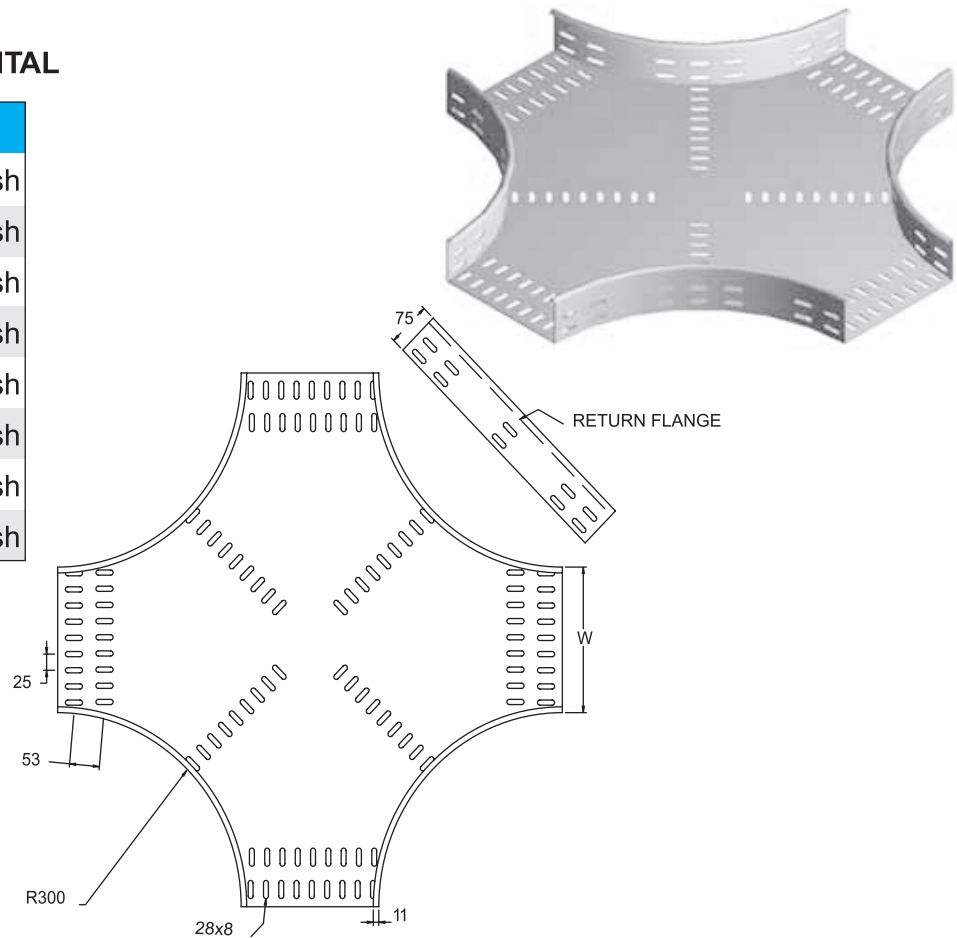
PART REF
XDT / ERR / 100 / A / Finish
XDT / ERR / 150 / A / Finish
XDT / ERR / 225 / A / Finish
XDT / ERR / 300 / A / Finish
XDT / ERR / 450 / A / Finish
XDT / ERR / 600 / A / Finish
XDT / ERR / 750 / A / Finish
XDT / ERR / 900 / A / Finish



- Risers are joined to XDT Trays by straight connectors.
- Fish Plates are recommended for the trays & accessories above 200mm widths for better load bearing capacity.
- Adjustable Risers are produced on request and are specified by XDT / AR / Width / Finish.
- Extra long Adjustable Risers can be produced on request and are specified by XDT / XLAR / Width / Finish.

XDT - CROSS HORIZONTAL

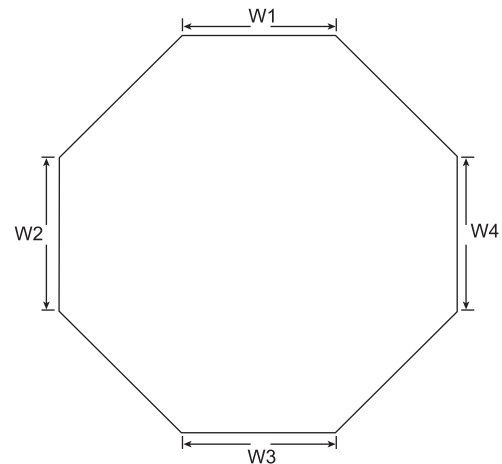
PART REF
XDT / CHR / 100 / Finish
XDT / CHR / 150 / Finish
XDT / CHR / 225 / Finish
XDT / CHR / 300 / Finish
XDT / CHR / 450 / Finish
XDT / CHR / 600 / Finish
XDT / CHR / 750 / Finish
XDT / CHR / 900 / Finish



- XDT Round Radial Accessories are joined by connectors.
- Round Radial Accessory Covers are produced on request.

XDT - UNEQUAL CROSS HORIZONTAL

PART REF
XDT / UCHR / W1 / W2 / W3 / W4 / Finish



- For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction as shown in the fig.
- Thickness for UCHR to be followed of the larger size.
- Bonding Jumpers are used for the Earthing Connectivity.
- For XDT reducer details.

WEIGHT OF THE COMPONENTS

XDT - CABLE TRAY

WIDTH(mm)	WT. (Kgs.)
100	9.010
150	10.600
225	12.953
300	15.328
450	26.786
600	34.132
750	39.824
900	46.10

STRAIGHT CONNECTOR

WIDTH(mm)	WT. (Kgs.)
100 to 300	0.227
450 to 900	0.303

FLANGE CONNECTOR

WIDTH(mm)	WT. (Kgs.)
100 to 300	0.277
450 to 900	0.369

COVERS FOR STRAIGHT LENGTHS

WIDTH(mm)	WT. (Kgs.)
100	3.233
150	4.484
225	6.371
300	8.226
450	14.363
600	18.847
750	29.055
900	34.673

XDT - ELBOW HORIZONTAL

WIDTH (mm)	WEIGHT IN KGS.	
	45°	90°
100	0.742	1.378
150	0.912	1.738
225	1.208	2.321
300	1.569	3.042
450	3.286	6.402
600	4.781	9.381
750	6.593	13.059
900	8.734	17.310

XDT - EXTERNAL RISER

WIDTH (mm)	WEIGHT IN KGS.	
	45°	90°
100	0.763	1.569
150	0.912	1.855
225	1.124	2.290
300	1.325	2.714
450	2.353	4.759
600	2.915	5.894
750	3.487	7.038
900	4.049	8.173

XDT - TEE HORIZONTAL

WIDTH(mm)	WT. (Kgs.)
100	2.247
150	3.021
225	3.869
300	4.865
450	9.625
600	13.557
750	18.232
900	23.627

XDT - CROSS HORIZONTAL

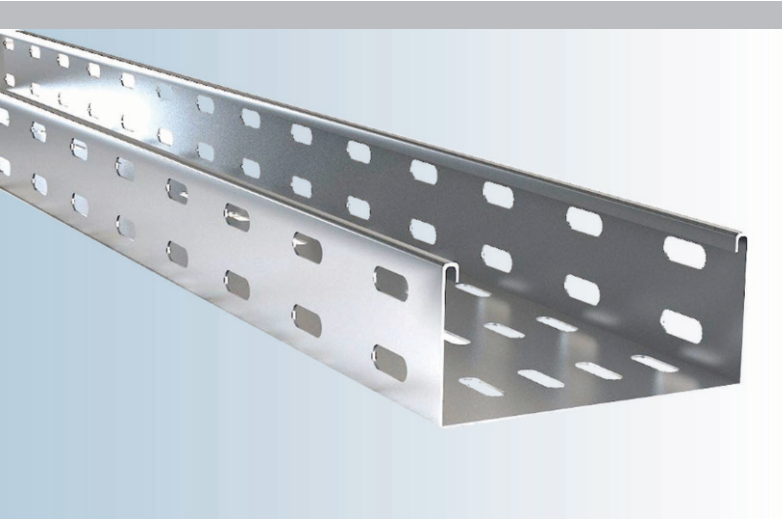
WIDTH(mm)	WT. (Kgs.)
100	2.735
150	3.837
225	4.749
300	5.809
450	11.077
600	15.211
750	20.151
900	25.461

XDT - INTERNAL RISER

WIDTH (mm)	WEIGHT IN KGS.	
	45°	90°
100	0.922	1.844
150	1.102	2.205
225	1.378	2.756
300	1.654	3.297
450	2.915	5.830
600	3.646	7.282
750	4.367	8.724
900	5.088	10.165



WESTPORT
Middle East



CABLE TRAY SYSTEMS

Technical Data