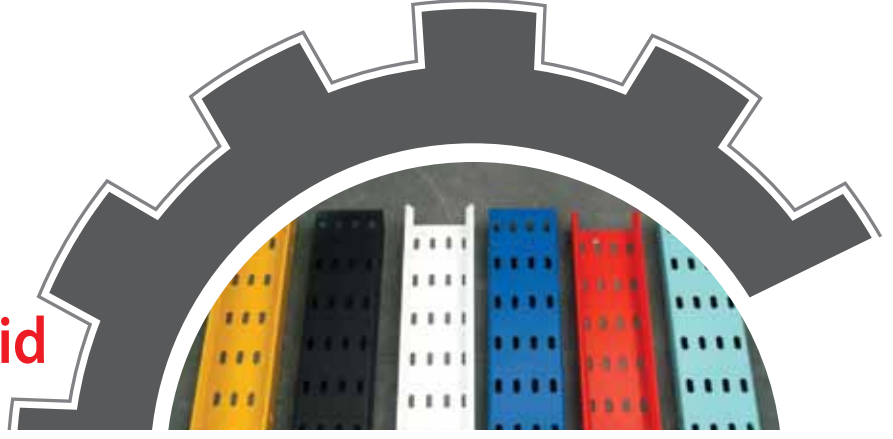


Cable Tray
Perforated / Solid



ALMEER INDUSTRIES المير للصناعات

www.almeer.com.kw



شركة المير للخدمات الفنية ذ.م.م.

Subsidiary of ALMEER TECHNICAL SERVICES CO. W.L.L.





INTRODUCTION

Almeer Industries established in the year 1997, has been in the business offering a wide range of services in manufacture of Panels for various applications, Street Lighting Poles, Junction Boxes, Cable Trays & Accessories, Unistrut Channels, Wire mesh, Expanded metal, Profiled Sheets etc., for Oil & Gas, Petrochemical, Power and other major industries in Kuwait. It is an ISO 9001: 2008, ISO 14001: 2004 & ISO 18001: 2007 Certified Company with standardization worked into all facets of its work.

Almeer manufacturing facility is located in Amghara Industrial Area with modern machineries and equipments. The workshop is located on 10,000 Sq.mtrs of area which consists of Overhead Office, Stores and well laid down area for fabrication, machine shop, CNC Operation, Lighting Pole Machinery, Industrial blasting, Power coating plant, Hot-dip galvanization plant and computerized, manual & chemically etched engraving facilities. The workshop is equipped with overhead crane for material handling and other maintenance services.

We stride to provide reliable, highest quality and economic solutions to our customers. As we continue to build and strengthen our partnership, we are committed to achieve 100% customer satisfaction and earn your trust and loyalty.

CABLE TRAY - PERFORATED / SOLID TYPE

(ORDERING INFORMATION)

CODE	TYPE OF TRAY	
P	PERFORATED	
S	SOLID BOTTOM	
CODE	RETURN FLANGE	
W	WITH RETURN FLANGE	
O	WITHOUT RETURN FLANGE	
CODE	HEIGHT OF TRAY	
A	50 MM	
B	75 MM	
C	100 MM	
D	120 MM	
E	150 MM	
CODE	THICKNESS	
J	1.0 MM	
K	1.2 MM	
L	1.5 MM	
M	2.0 MM	
N	2.3 MM	
CODE	WIDTH OF TRAY	
* *	50MM - 1000MM	
CODE	LENGTH OF TRAY	
A	2440 MM	
B	3000 MM	
CODE	FINISH	
1	HOT DIP GALVANIZED	
2	PRE-GALVANIZED	
3	PAINTED / POWDER COATED	
4	STAINLESS STEEL	

P

W

A

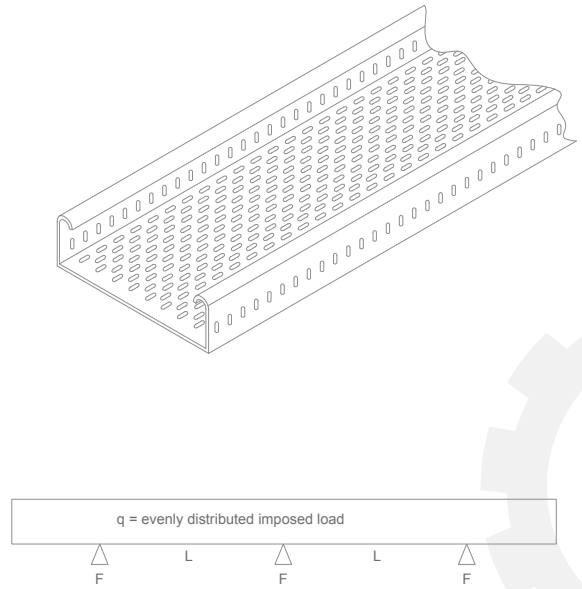
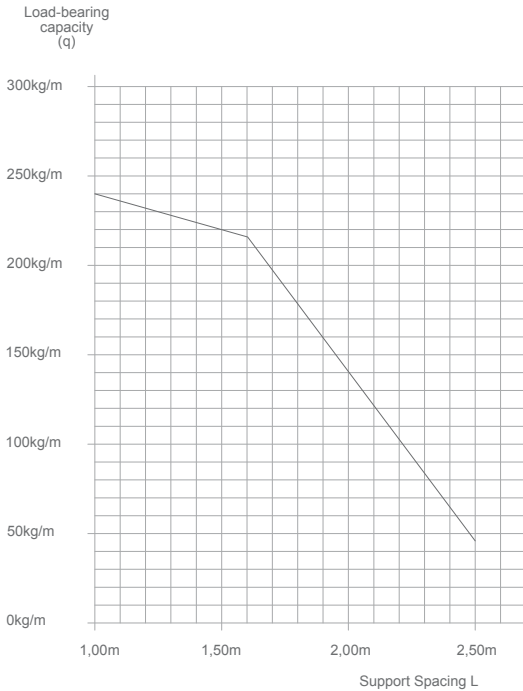
L

300

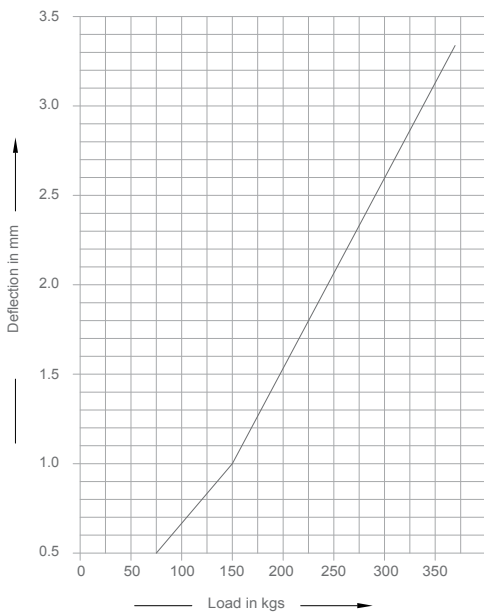
B

1

CABLE TRAY - PERFORATED / SOLID TYPE

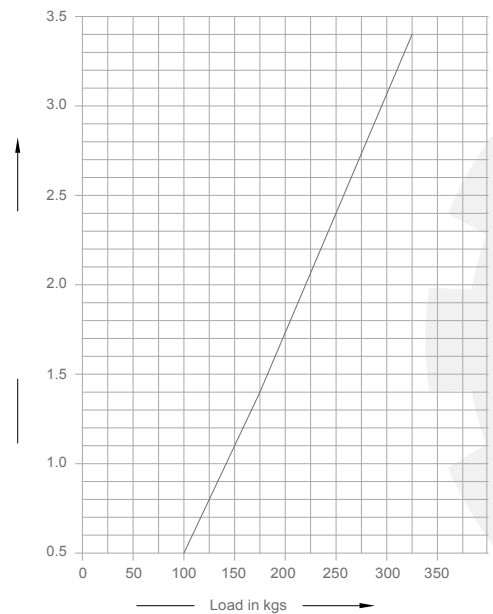


SUPPORT SPAN VS LOAD



Load vs Deflection

300mm width
(for LO & LI Series)



Load vs Deflection

450mm width
(for LO & LI Series)

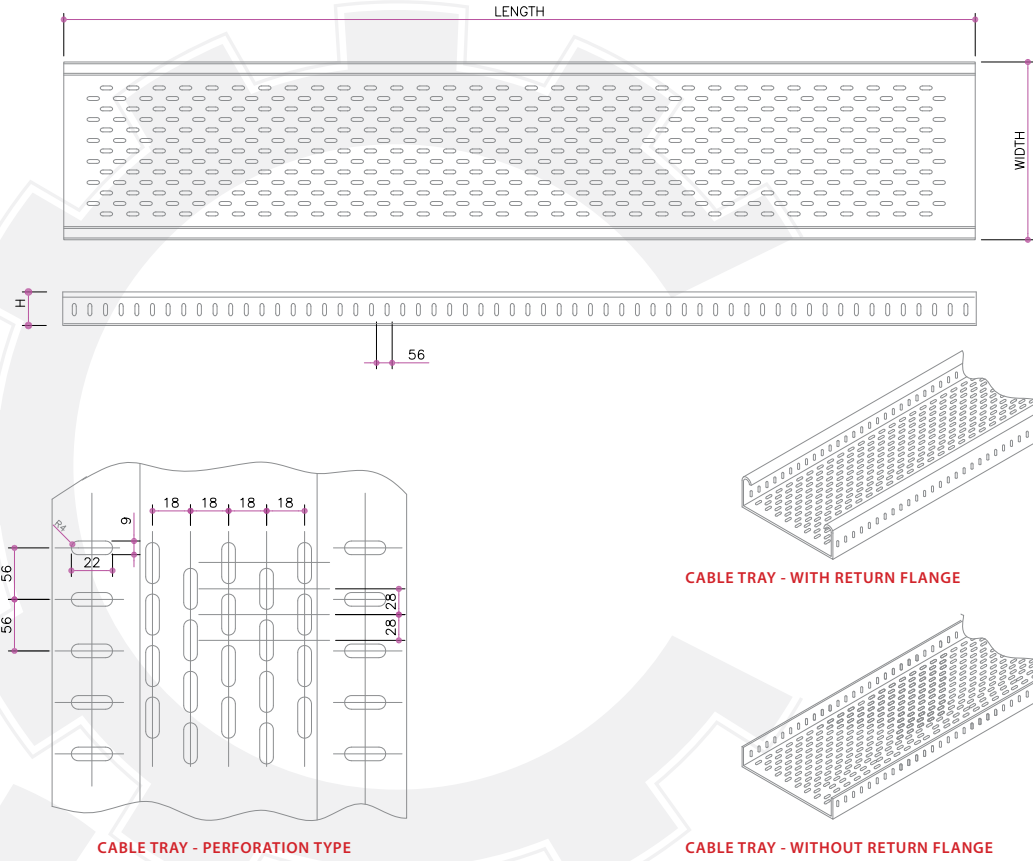
Fittings and hinged Connectors must be additionally reinforced and supported at the immediate joint for the load-bearing capacity indices!

Cover Panels the permissible load-bearing capacity is reduced when using Cover Panels by their "meter weight"

Foot Traffic Cable Trays may not be walked upon, and avoid lateral loads as leaning ladders!

CABLE TRAY - PERFORATED / SOLID TYPE

PERFORATED CABLE TRAY



SOLID BOTTOM CABLE TRAY

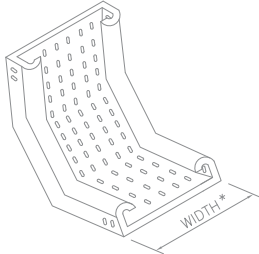


All Dimensions are in mm

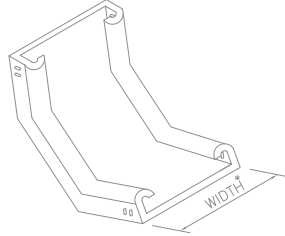
CABLE TRAY - PERFORATED / SOLID TYPE

FITTINGS & COVERS

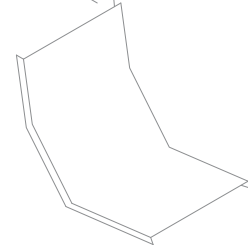
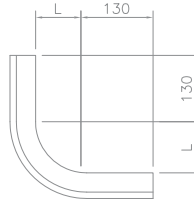
900 VERTICAL ELBOW-INSIDE



PERFORATED TYPE

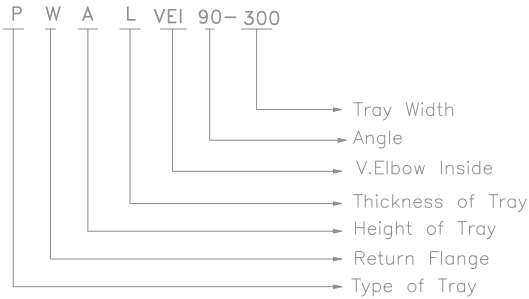





SOLID BOTTOM TYPE



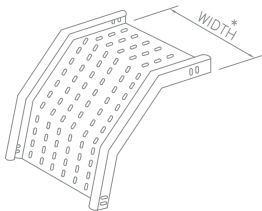
COVER

(Unit : mm)

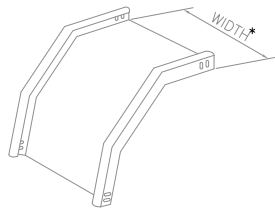


Cat.No.	Tray Width	L	Cover Width	Section
PWALVEI90 - 50	50	170	60	 TRAY
PWALVEI90 - 75	75	170	85	
PWALVEI90 - 100	100	170	110	
PWALVEI90 - 150	150	170	160	
PWALVEI90 - 200	200	170	210	
PWALVEI90 - 250	250	170	260	
PWALVEI90 - 300	300	170	310	 TRAY
PWALVEI90 - 350	350	170	360	
PWALVEI90 - 400	400	170	410	
PWALVEI90 - 500	500	170	510	 COVER
PWALVEI90 - 600	600	170	610	
PWALVEI90 - 750	750	170	760	
PWALVEI90 - 900	900	170	910	

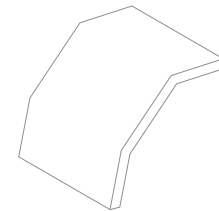
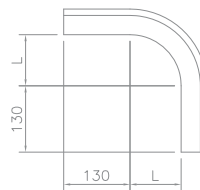
900 VERTICAL ELBOW-OUTSIDE



PERFORATED TYPE

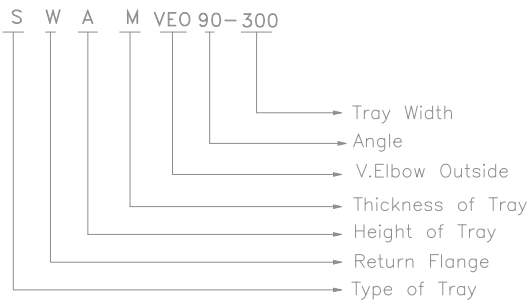


SOLID BOTTOM TYPE



COVER

(Unit : mm)



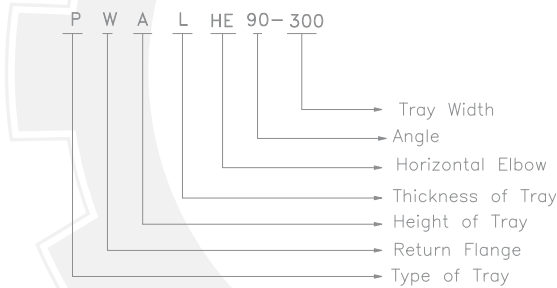
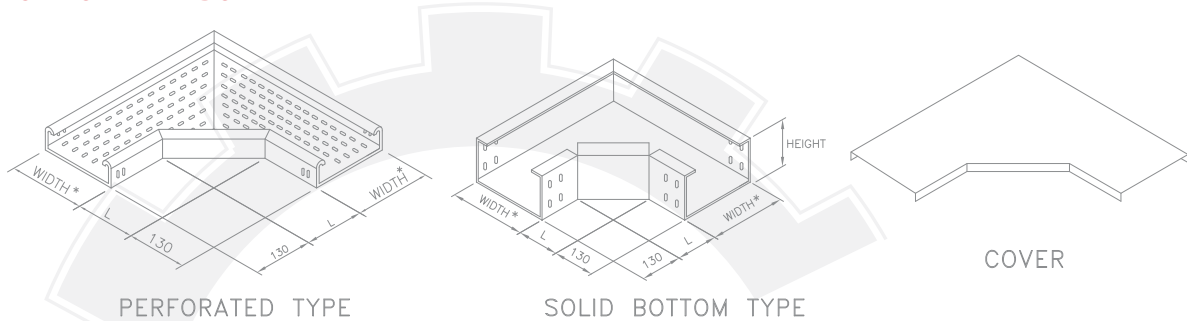
Cat.No.	Tray Width	L	Cover Width	Section
SWALVEI90 - 50	50	170	60	 TRAY
SWALVEI90 - 75	75	170	85	
SWALVEI90 - 100	100	170	110	
SWALVEI90 - 150	150	170	160	
SWALVEI90 - 200	200	170	210	
SWALVEI90 - 250	250	170	260	
SWALVEI90 - 300	300	170	310	 TRAY
SWALVEI90 - 350	350	170	360	
SWALVEI90 - 400	400	170	410	
SWALVEI90 - 500	500	170	510	 COVER
SWALVEI90 - 600	600	170	610	
SWALVEI90 - 750	750	170	760	
SWALVEI90 - 900	900	170	910	

* For Perforated / Solid Cable Trays, the cover width is 10mm more than the width of the tray.
All Dimensions are in mm

CABLE TRAY - PERFORATED / SOLID TYPE

FITTINGS & COVERS

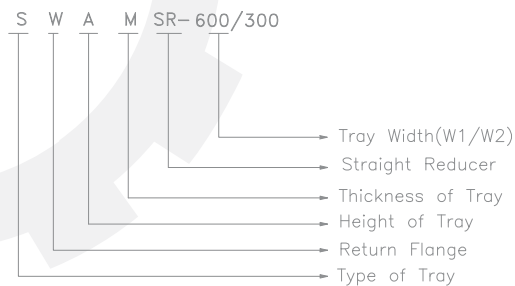
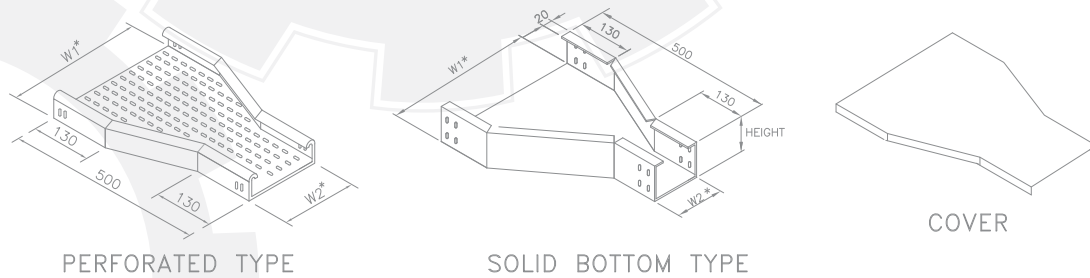
900 HORIZONTAL ELBOW



(Unit : mm)

Cat.No.	Tray Width	L	Cover Width	Section
PWALHE90 - 50	50	170	60	TRAY
PWALHE90 - 75	75	170	85	
PWALHE90 - 100	100	170	110	
PWALHE90 - 150	150	170	160	
PWALHE90 - 200	200	170	210	
PWALHE90 - 250	250	170	260	TRAY
PWALHE90 - 300	300	170	310	
PWALHE90 - 350	350	170	360	
PWALHE90 - 400	400	170	410	COVER
PWALHE90 - 500	500	170	510	
PWALHE90 - 600	600	170	610	
PWALHE90 - 750	750	170	760	
PWALHE90 - 900	900	170	910	

STRAIGHT REDUCER



(Unit : mm)

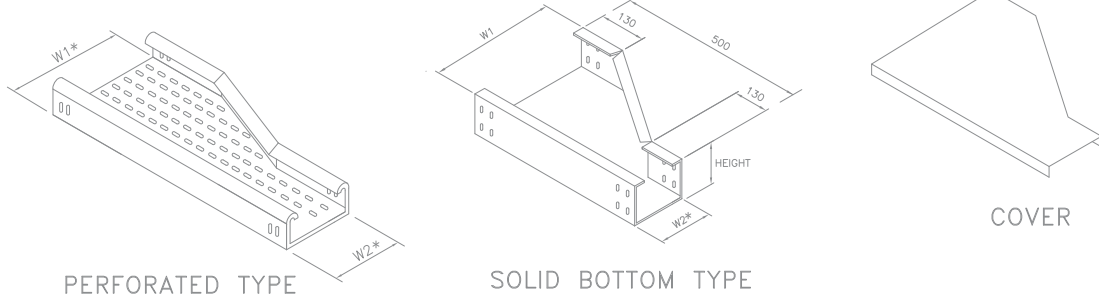
Cat.No.	Tray Width		Cover Width		Section
	W1	W2	WC1	WC2	
SWAL-SR-900/600	900	600	910	610	TRAY
SWAL-SR-900/400	900	400	910	410	
SWAL-SR-900/200	900	200	910	210	
SWAL-SR-750/500	750	500	760	510	TRAY
SWAL-SR-750/300	750	300	760	310	
SWAL-SR-750/200	750	200	760	210	
SWAL-SR-600/400	600	400	610	410	COVER
SWAL-SR-600/250	600	250	610	260	
SWAL-SR-600/200	600	200	610	210	
SWALSR-300/250	300	250	310	260	
SWAL-SR-300/200	300	200	310	210	

All Dimensions are in mm

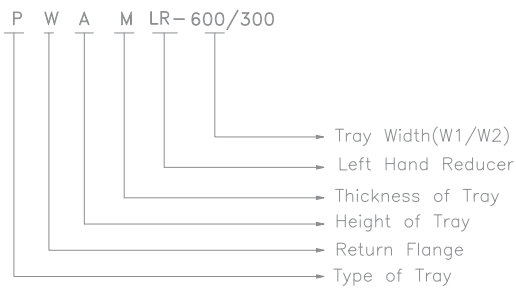
CABLE TRAY - PERFORATED / SOLID TYPE

FITTINGS & COVERS

LEFT HAND REDUCER

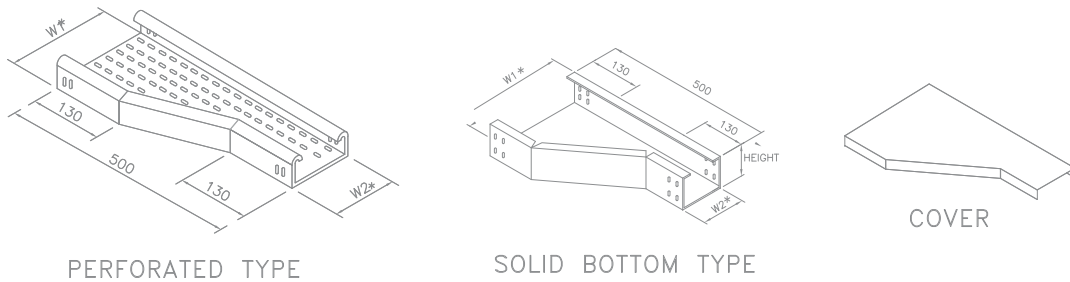


(Unit : mm)

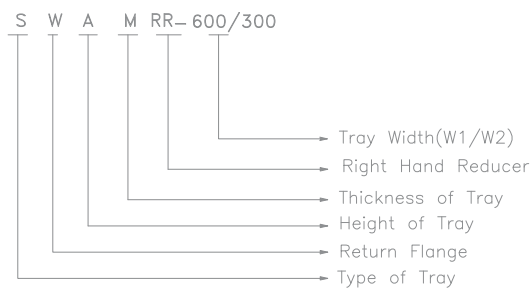


Cat.No.	Tray Width		Cover Width		Section
	W1	W2	WC1	WC2	
SWAL-LR-900/600	900	600	910	610	TRAY
SWAL-LR-900/400	900	400	910	410	
SWAL-SR-900/200	900	200	910	210	
SWAL-LR-750/500	750	500	760	510	TRAY
SWAL-LR-750/300	750	300	760	310	
SWAL-LR-750/200	750	200	760	210	
SWAL-LR-600/400	600	400	610	410	TRAY
SWAL-LR-600/250	600	250	610	260	
SWAL-LR-600/200	600	200	610	210	
SWAL-LR-300/250	300	250	310	260	COVER
SWAL-SR-300/200	300	200	310	210	

RIGHT HAND REDUCER



(Unit : mm)



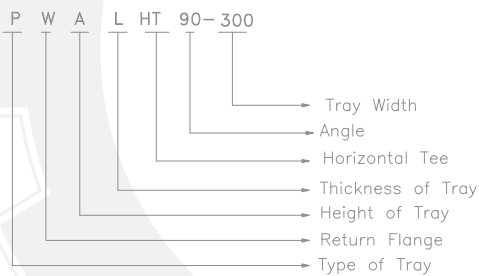
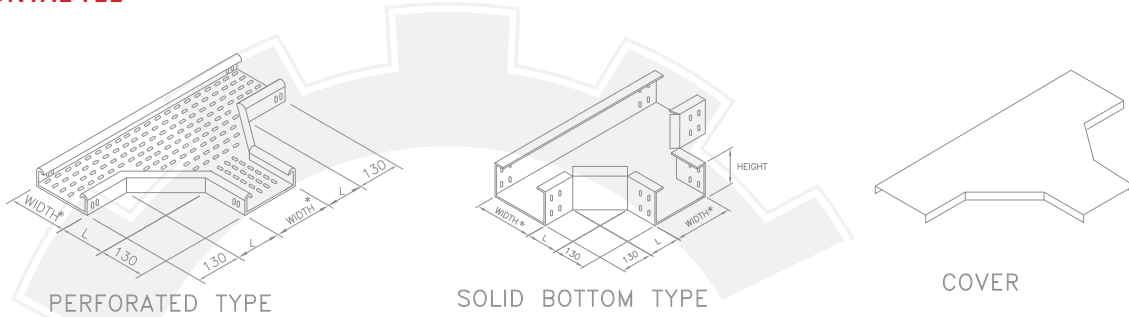
Cat.No.	Tray Width		Cover Width		Section
	W1	W2	WC1	WC2	
SWAL-RR-900/600	900	600	910	610	TRAY
SWAL-RR-900/400	900	400	910	410	
SWAL-RR-900/200	900	200	910	210	
SWAL-RR-750/500	750	500	760	510	TRAY
SWAL-RR-750/300	750	300	760	310	
SWAL-RR-750/200	750	200	760	210	
SWAL-RR-600/400	600	400	610	410	TRAY
SWAL-RR-600/250	600	250	610	260	
SWAL-RR-600/200	600	200	610	210	
SWAL-RR-300/250	300	250	310	260	COVER
SWAL-RR-300/200	300	200	310	210	

* For Perforated / Solid Cable Trays, the cover width is 10mm more than the width of the tray.
All Dimensions are in mm


CABLE TRAY - PERFORATED / SOLID TYPE

FITTINGS & COVERS

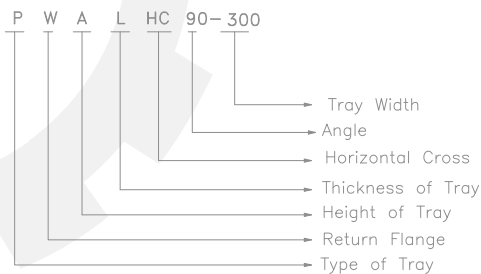
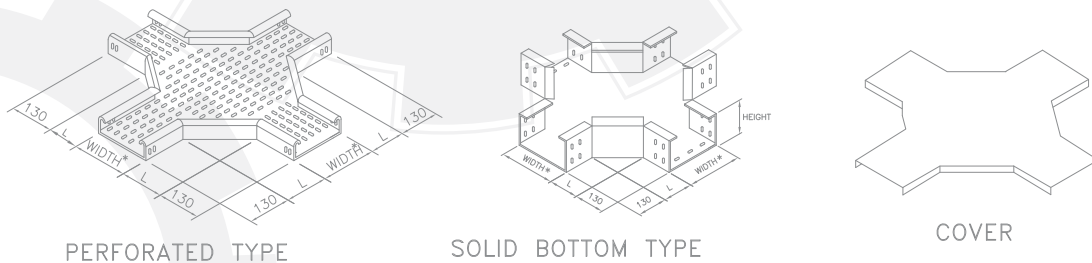
HORIZONTAL TEE






(Unit : mm)

Cat.No.	Tray Width	L	Cover Width	Section
PWALHT90 - 50	50	170	60	 TRAY
PWALHT90 - 75	75	170	85	
PWALHT90 - 100	100	170	110	
PWALHT90 - 150	150	170	160	
PWALHT90 - 200	200	170	210	
PWALHT90 - 250	250	170	260	
PWALHT90 - 300	300	170	310	 TRAY
PWALHT90 - 350	350	170	360	
PWALHT90 - 400	400	170	410	
PWALHT90 - 500	500	170	510	 COVER
PWALHT90 - 600	600	170	610	
PWALHT90 - 750	750	170	760	
PWALHT90 - 900	900	170	910	

HORIZONTAL CROSS



(Unit : mm)

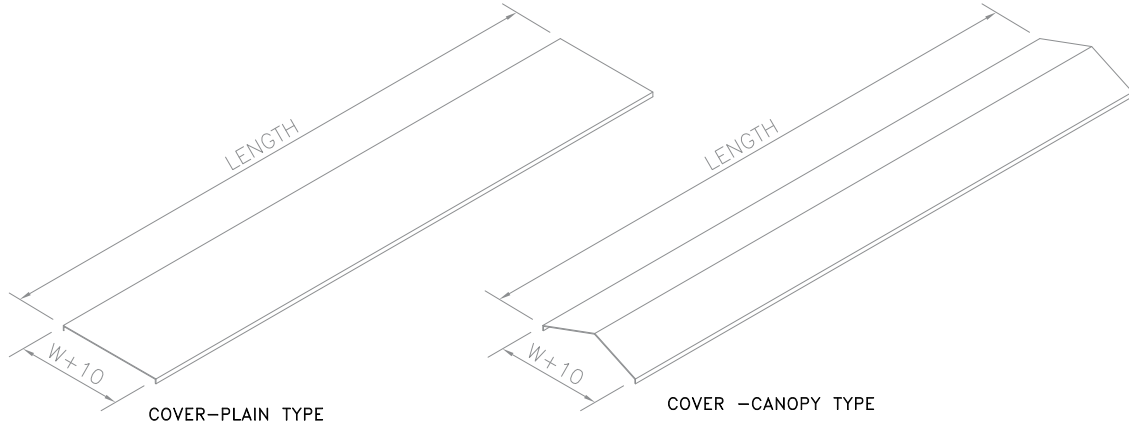
Cat.No.	Tray Width	L	Cover Width	Section
PWALHC90 - 50	50	170	60	 TRAY
PWALHC90 - 75	75	170	85	
PWALHC90 - 100	100	170	110	
PWALHC90 - 150	150	170	160	
PWALHC90 - 200	200	170	210	
PWALHC90 - 250	250	170	260	
PWALHC90 - 300	300	170	310	 TRAY
PWALHC90 - 350	350	170	360	
PWALHC90 - 400	400	170	410	
PWALHC90 - 500	500	170	510	 COVER
PWALHC90 - 600	600	170	610	
PWALHC90 - 750	750	170	760	
PWALHC90 - 900	900	170	910	

All Dimensions are in mm

CABLE TRAY - PERFORATED / SOLID TYPE

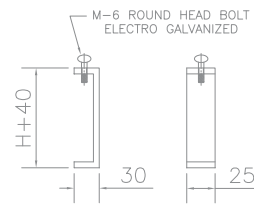
ACCESSORIES

COVER

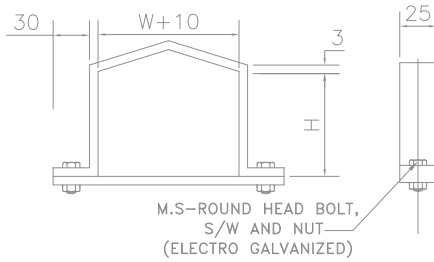


FOR CABLE TRAYS , COVER WIDTH IS $W+10$ MM
 MATERIAL : MILD STEEL/STAINLESS STEEL/ALUMINIUM
 FINISH : HOT DIP GALVANIZED/PAINTED/POWDERCOATED

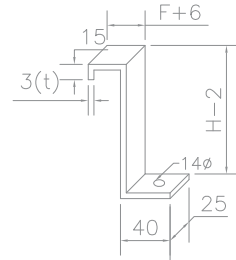
COVER CLAMP- TYPE C



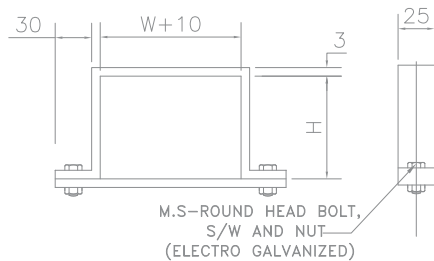
COVER CLAMP- TYPE A



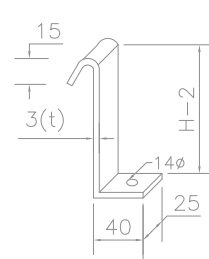
HOLD DOWN CLAMP(TYPE-B)



COVER CLAMP- TYPE B



HOLD DOWN CLAMP(TYPE-C)



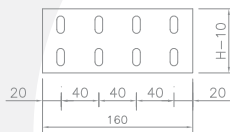
All Dimensions are in mm

CABLE TRAY - PERFORATED / SOLID TYPE

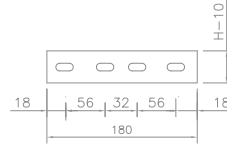
ACCESSORIES

JOINT CONNECTOR

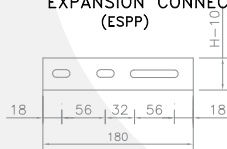
STRAIGHT CONNECTOR (JCP-100)
FOR HEIGHT 100MM AND ABOVE



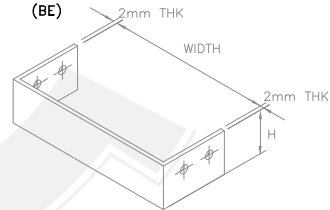
STRAIGHT CONNECTOR (JCP-50)
FOR HEIGHT BELOW 100MM



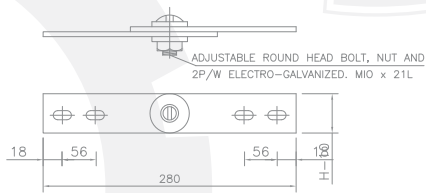
EXPANSION CONNECTOR (ESPP)



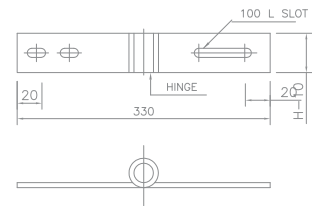
BLIND END (BE)



RISER CONNECTOR(RCP)
VERTICAL ADJUSTABLE CONNECTOR



BENDING CONNECTOR(BECP)
HORIZONTAL ADJUSTABLE CONNECTOR



FASTENERS



Joint connector slots corresponding to side rail connection holes
H - height of side rail

All Dimensions are in mm

MANUFACTURING STANDARDS OF CABLE TRAYS

1.1 Materials

Cable trays shall be made of either Hot Rolled or Cold Rolled Mild Steel sheets (ASTM A36) or Pre-galvanized Steel sheets (ASTM A653) or Stainless Steel sheet.

1.2. Welding

The welding procedures used in the fabrication of all ALMEER Cable Trays and Accessories are in accordance with the latest American Welding Society Standard AWS D.1.3. The welders performing the job are qualified as per relevant AWS Code. ALMEER Steel Cable Trays are welded by SMAW (Shield Metal Arc Welding), MIG (Metal Inert Gas) or TIG (Tungsten Inert Gas) welding process for producing smooth, clean, slag-free weldments.

1-3. Finishes

ALMEER supplies Cable Trays in five different finishes .

1. Pre-galvanized finish: As per ASTM A653, usually Pre-galvanized sheets are used for manufacturer of Cable Trays.
2. Hot-Dip galvanized finish: Cable trays fabricated from black steel sheet are Hot-Dip galvanized after fabrication in accordance with BS EN ISO 1461 or ASTM A123 "Specification for Zinc Coating (Hot dip) assembled Steel products."
3. Painted finish: Cable Trays fabricated from black steel sheet are sand-blasted and painted after fabrication as per clients specification.
4. Powder Coated finish: Cable Trays fabricated from black steel sheet are powder coated after fabrication.
5. Stainless Steel finish: Cable Trays are fabricated from stainless steel sheets grade 304, 316 or 316L, usually supplied in Stainless Steel '2B' finish.

2-1. Dimensions

Cable Trays

1. Lengths of Straight Sections is usually in 3.0 Mtr or 2.44 Mtr with a tolerance of plus or minus 3mm not including connectors if attached.
2. Widths - 50,75, 100, 150, 200, 300, 450, 600, 750 and 900mm plus or minus 6.0mm inside Dimension.
3. Depths - Outside depths shall be 50,75, 100, 120 and 150 mm plus or minus 3.0mm
4. Radius - 300, 450, 600 and 900mm.
5. Degree of Arc for Bends - 30, 45, 60 and 90 degrees.
6. Bottom- Perforated or Solid Type

3. Protection for Cables

The inside of cable tray systems have smooth surface without any sharp edges, burrs or projections which may cause damage to cables during installation.

4. Fittings

The design and construction for all types of Cable Tray & Fittings is based on supporting to cable trays as recommended in Cable Tray Standard NEMA VE -1

5. Applicable Codes and Standards

All equipment, material and workmanship shall comply with the requirements and latest revisions of the following standards and codes whichever is applicable,
 BSI British Standards Institute
 NEMA National Electrical Manufacturers Association
 NEC National Electrical Code of USA
 ASTM American Society for Testing and Materials
 AWS American Welding Society
 JIS Japanese Industrial Standards
 KS Korean Standards

6. Tests

Applicable tests are carried out on the fabricated samples. The tests usually carried out are:-

- Load Test.
- Deflection Test.
- Electrical Continuity Tests.
- Relevant Tests on Coatings.
- UV - Protection Test.





المير للصناعات ALMEER INDUSTRIES

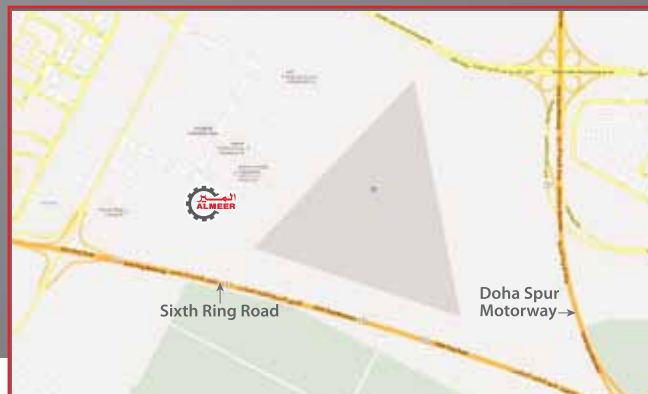
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E-mail : atsco@almeer.com.kw



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Fax : +965 2457 1396

E-mail : factory@almeer.com.kw