

AL-FAREED STARS FACTORY

For Metal Industries & Cable Support System



EN ISO 9001:2008



مصنع نجوم الفريد للصناعات المعدنية



مصنع نجوم الفريد للصناعات المعدنية AL-FAREED STARS FACTORY

الإنتاج اللوحات الكهربائية وحوامل الكابلات ومستلزماتها
For Metal Industries & Cable Support System

Made in Saudi Arabia



صنع في المملكة العربية السعودية

ص. ب : ٣٥٥٣٤ الرياض : ١١٣٨٣ : المملكة العربية السعودية هاتف : +٩٦٦ ١١ ٤١٠ ٦٢٦٥ فاكس : +٩٦٦ ١١ ٤٠٠ ٩٧٧٨
P. O. Box 355034, Riyadh 11383, Kingdom of Saudi Arabia, Tel. : +966 11 410 6265 Fax : +966 11 400 9778

e-mail : al_fareedstars@yahoo.com : بريد الإلكتروني :
www.alfareedstars.com info@alfareedstars.com



Al-Fareed Stars Factory for metal Industries has been established in Riyadh, depending on specialized and well qualified team of Engineers and workers to supervise on all stages of manufacturing to achieve high quality and identical to Saudi, Gulf and International specifications.

As we have these abilities and powers with the best modern machinery of cutting, folding, punching drawing and others.

We decided to work inside and outside Kingdom of Saudi Arabia and support our customers with technical and technological abilities to overcome any difficulties may arise to complete the projects on time.

So project manager, designers and consultants will find cable trays with its all types and supports easy installation and insure time and effort.

We are always at your services.

Al-Fareed Stars Factory

TABLE OF CONTENTS



NEMA STANDARD	1
CABLE TRAY SYSTEM	8
- Cable tray General Information	10
- Cable tray Ordering Charts	11
- Cable tray Ordering Guide	12
- Cable tray Fittings	13
- Cable tray Accessories	16
- Cable tray Covers	18
- Cable tray Cable Carrying Capacity	19
CABLE TRAY SYSTEM - FRENCH STANDARD	27
- Cable tray Ordering Guide	28
- Cable tray Fittings	29
- Cable tray Support System	32
CABLE LADDER SYSTEM	36
- Cable Ladder Ordering Charts	38
- Cable Ladder General Information	39
- Cable Ladder Description	40
- Cable Ladder Ordering Guide	41
- Cable Ladder Fittings	43
- Cable Ladder Accessories	45
- Cable Ladder Covers	47
- Loading Graph for Cable Ladder	48
- Cable Ladder / Rack for Shelter	53

TABLE OF CONTENTS



TRUNKING SYSTEM-----	54
- Trunking Ordering Charts	55
- Under Floor Trunking & Accessories	56
- Flush Floor Trunking & Accessories	59
- In Cavity Trunking & Accessories	64
- Cable Trunking / Wireway	69
 AL- FAREED METAL FRAMING SYSTEM - CHANNELS -----	 70
- Channel & Fittings	71
- Fittings & Brackets	100
- Channel Clamps	106



NEMA STANDARDS
VE 1 -- 1991
Rev. November 1993

CONTENTS

SCOPE

Section 1	REFERENCED STANDARDS AND DEFINITIONS
Section 2	MANUFACTURING STANDARDS
Section 3	PERFORMANCE STANDARDS AND LOAD/SPAN
Section 4	TEST STANDARDS
Section 5	SPECIFICATIONS AND DRAWINGS
Section 6	APPLICATION INFORMATION

NEMA STANDARDS

METALLIC CABLE TRAY SYSTEMS, FITTINGS & ACCESSORIES



Section 1

REFERENCED STANDARDS AND DEFINITIONS

1. REFERENCED STANDARDS

In this publication, reference is made to the standards listed below. Copies are available from the indicated source.

American National Standards Institute

11 West 42nd Street

New York, NY 10036

National Fire Protection Association

Battery March Park

Quincy, MA 02269

ANSI/NFPA 70 – 93 National Electrical Code

American Society for Testing Materials

1916 Race Street

Philadelphia, PA 19103

A 123 – 89

Zinc (Hot – Dip Galvanized) Coatings on Iron and Steel Products, Specifications for General requirements, Steel Sheet,

A 525 – 87

Zinc – coated (Galvanized) by the Hot – Dip Process, Specifications for

B 633 – 8

Electrodeposited Coatings of Zinc on Iron and Steel, Specifications for

B 766 – 86

Electrodeposited Coatings of Cadmium, Specifications for

2. DEFINITIONS

Metallic Cable Tray System

An assembly of Cable tray straight sections, fittings and accessories that forms a rigid structural system to support cables

NEMA Standard 11- 15- 1984

Ladder Cable Tray

A prefabricated metal structure consisting of two longitudinal side Rails connected by individual transverse members.

NEMA Standard 11- 15- 1984

Trough Cable Tray

A prefabricated metal structure greater than 4 inches (102) in width consisting of a ventilated bottom within integral or separate longitudinal side rails.

NEMA Standard 11- 15- 1991

Solid Bottom Cable Tray (Trunking)

A prefabricated metal structure consisting of a bottom with No openings within integral or separate longitudinal side rails.

NEMA Standard 11- 15- 1984

Straight Section

A length of cable tray which has no change in direction or size

NEMA Standard 11- 15- 1984

Cable Tray Fitting

A device which is used to change the direction or size of a cable tray system.

NEMA Standard 11- 15- 1984

Cable Tray Connector (Splice Plate)

A device which joins cable tray straight sections and fittings or both.

The basic types of connectins (splice plates) are :

1. Rigid
2. Expansion
3. Adjustable
4. Reducer

NEMA Standard 11- 15- 1984

Horizontal Elbow (Horizontal Bend)

A Cable tray fitting which changes the direction in the same plane.

NEMA Standard 11- 15- 1984

Horizontal Tee

A cable tray fitting which is suitable for joining cable trays in three directions at 90 – degree intervals in the same plane.

NEMA Standard 11- 15- 1984

Horizontal Cross

A cable tray fitting which is suitable for joining cable trays in four directions at 90 – degree intervals in the same plane.

NEMA Standard 11- 15- 1984

Vertical Elbow (Vertical Bend)

A cable tray fitting which changes directions to a different plane.

An inside vertical elbow changes direction upward from the horizontal plane.

An outside vertical elbow changes direction downward from the horizontal plane.

NEMA Standard 11- 15- 1984

Channel Cable Tray

A prefabricated metal structure conisting of a one piece ventilated bottom or solid-bottom channel section, or both, not exceeding 6 inches(152) in width.

NEMA Standard 11- 15- 1984

Accessories

Devices which are used to supplement the function of straight sections and fittings and including such items as drop – out, covers conduit adapters, hold-down devices and dividers.

NEMA Standard 11- 15- 1984

Cable Tray Support

A device which provides adequate means for supporting cable tray sections and fittings.

The basic types of cable tray supports are:

1. Cantilever bracket
2. individual rod suspension

NEMA Standard 11- 15- 1984

Cable Tray Support Span

The distance between the center line of supports.

NEMA Standard 11- 15- 1984



Section 2

MANUFACTURING STANDARDS

1. MATERIALS

Cable tray systems shall be made of either corrosion-resistant metal or metal with a corrosion resistant finish.

NEMA Standard 11-15-1984

Aluminum and stainless steel alloys are inherently corrosion-resistant and no finish coating is required in most environments.

Authorized Engineering Information 11-15-1984

2. FINISHES

i) Carbon Steel used for cable trays shall be protected against corrosion by one of the following processes.

- A. Hot dip mill galvanized in accordance with ASTM Publication No. A 525 G 90 Coating

NEMA Standard 11-15-1984

Coating designation G 90 of ASTM 525 has an average Zinc coating weight of 1.25 oz. per square foot(0.381 kg/m²) of steel, total coating on both surfaces (1.06 mils(0.027) average thickness per side).

Hot -dip mill galvanized coatings are produced by continuous rolling steel sheets or strips in coils through a bath of molten Zinc. The process involves pretreating the steel to make the surface react readily with molten zinc as the strip moves through bath at high speeds. During fabrication where slitting, forming, cutting or welding is performed, the cut edges and heat- affected zone of welding are subject to superficial oxidation. These areas are then protected through electrolytic action of the adjacent zinc surfaces. The coating is smooth ductile and adherent.

Authorized Engineering Information 11-15-1984

- B. Hot - dip galvanized after fabrication in accordance with ASTM Publication No. A123, Class B2.

NEMA Standard 11-15-1984

Class B2 of ASTM A 123 has an average zinc coating weight of 1.50 oz. per square foot (0.46 /m²)(2 .55mils) (0.064) average thickness per side

Fabricated products which are hot- dip galvanized are thoroughly cleaned, fluxed and immersed into a bath of molten zinc where they react to form a metallurgically bonded zinc coating. Normal oxidation of the galvanized surfaces will, in short period of time appear as a dull grey or white coating. Some degrees of roughness and variation of thickness can be expected due to the hot dipping process. Because the galvanizing process takes place at the low end of the stress-relieving temperature range, some stress relief occurs and some distortion or warping may result.

Authorized Engineering Information 11-15-1991

- C. Other equivalent commercially available coatings.

NEMA Standard 11-15-1984

ii). Steel nuts and bolts shall be protected against corrosion by one of the following processes :

- A. ASTM Publication No. B 633

- B. ASTM Publication No. B 766

- C. Other equivalent commercially available coatings.

NEMA Standard 11-15-1991

3. Ladder Trays

1. *Lengths of straight sections* – 12 feet (3660) plus or minus 3/16 inch(4.76) and 24 feet(7320) plus or minus 5/16 inch(7.94), not including connection if attached.

2. *Widths* – 6, 12, 18, 24, 30 and 36 inches (152,305,457,610,762 and 914), plus or minus 1/4 inch (6.35) inside dimensions.

Overall widths shall not exceed inside widths by more than 4 inches(102)

3. *Depths* – Inside depths shall be 3, 4, 5 and 6 inches (76.2, 102, 127.0 and 152), plus or minus 3/8 inch (9.53)

Outside depths shall not exceed insides by more than 1 – 1/4 inches (31.7).

4. *Rung Spacing on Straight Sections* – 6, 9, 12 or 18 inches (152, 229, 305 or 457) on centers.

5. *Radius* – 12, 24 and 36 inches (305, 610, 914).

6. *Degree of Arc for Elbows* – 30, 45, 60 and 90 degrees

NEMA Standard 11-15-1984

4. Trough Trays

1. *Lengths of Straight Sections* – 12 feet (3660) plus or minus 3/16 inch(4.76) and 24 feet (7320) plus or minus 5/16 inch (7.94), not including connector if attached.

2. *Widths* – 6, 12, 18, 24, 30 and 36 inches (152, 305, 457, 610, 762 and 914), plus or minus 1/4 inch (6.35) inside dimensions.

Overall widths shall not exceed inside widths by more than 4 inches(102)

3. *Depths* – Inside depths shall be 3, 4, 5 and 6 inches (76.2, 102, 127.0 and 152), plus or minus 3/8 inch (9.53)

Outside depths shall not exceed insides depths by more than 1- 1/4 inches (31.7)

4. *Radius* – 12, 24 and 36 inches (305, 610, 914).

5. *Degree of Arc for Elbows* – 30, 45, 60 and 90 degrees

6. *Transverse Elements* – The maximum open spacing between transverse elements shall be 4 inches (102) measured in a direction parallel to the tray side rails.

NEMA Standard 11-15-1984

5. Solid - Bottom Trays

1. *Lengths of Straight Sections* – 12 feet (3660) plus or minus 3/16 inch(4.76) and 24 feet (7320) plus or minus 5/16 inch (7.94), not including connector if attached.

2. *Widths* – 6, 12, 18, 24, 30 and 36 inches (152, 305, 457, 610, 762 and 914), plus or minus 1/4 inch (6.35) inside dimensions.

Overall widths shall not exceed inside widths by more than 4 inches(102)

3. *Depths* – Inside depths shall be 3, 4, 5 and 6 inches (76.2, 102, 127.0 and 152), plus or minus 3/8 inch (9.53)

Outside depths shall not exceed insides depths by more than 1- 1/4 inches (31.7)

4. *Radius* – 12, 24 and 36 inches (305, 610, 914).

5. *Degree of Arc for Elbows* – 30, 45, 60 and 90 degrees

6. *Bottom* – Bottom is solid

NEMA Standard 11-15-1984

NEMA STANDARDS

METALLIC CABLE TRAY SYSTEMS, FITTINGS & ACCESSORIES



6. Channel Trays

1. *Lengths of Straight Sections* – 12 feet (3660) plus or minus 3/16 inch(4.76) and 24 feet (7320) plus or minus 5/16 inch (7.94), not including connector if attached.

2. *Widths* – 3, 4 and 6 inches (76.2, 102 and 152), plus or minus 1/4 inch (6.35) inside dimensions.

3. *Depths*- 1- 1/4 to 1-3/4 inches (31.7 to 44.4) outside dimensions.

4. *Radii* – 12, 24 and 36 inches (305, 610, 914).

5. *Degree of Arc for Elbows* – 30, 45, 60 and 90 degrees

NEMA Standard 11- 15- 1984

PROTECTION OF CABLE INSULATION

The inside of cable tray systems shall present no sharp edges, burrs or projectoins which can damage cable insulation

NEMA Standard 7- 14- 1976

FITTINGS

The design and constructin of fittings shall be based on the assumption that they will be supported in accordance with the recommendations given in 6.6 for support locations.

NEMA Standard 11- 15- 1984

MARKING OF TRAYS WHEN USED AS EQUIPMENT GROUNDING CONDUCTORS

When steel or aluminum cable tray systems are used as equipment grounding conductors, cable tray sections and fittings shall be marked to show the minimum cross sectional area in accordance with the Article 318 of the *National Electrical Code*.

NEMA Standard 7- 14- 1976

Section 3

PERFOMANCE STANDARDS AND LOAD/SPAN CLASS DESIGNATIONS

1.WORKING (ALLOWABLE) LOAD CAPACITY

The working (allowable) load capacity represents the ability of a cable tray to support the static weight of cables. It is equivalent to the destruction load capacity, as determined by testing in accordance with 4.1 divided by a safely factor of 1.5

NEMA Standard 3- 14- 1979

2. LOAD/ SPAN CLASS DESIGNATIONS

There shall be three working load categories of cable tray :

1. 50 lbs /linear ft.(74.4kg/m) (Symbol A)

2. 75 lbs /linear ft.(111.6kg/m) (Symbol B)

3. 100lbs /linear ft.(148.8kg/m) (Symbol C)

and four support span categories of :

1. 8 feet (2.44 m)

2. 12 feet (3.66 m)

3. 16 feet (4.87 m)

4. 20 feet (6.09 m)

NEMA Standard 3- 14- 1979

Section 4

TEST STANDARDS

DESTRUCTION LOAD TEST

1. Test Specimen

For each design of cable tray, two separate tests shall be made. An unspliced straight section of the widest width shall be used in each test.

For ladder type cable trays rung spacing shall be 12 inches (305) on center

Differences in gauge, height of side rails, rung or bottom to side rail connection, or the configuratin of any part constitute a different design.

NEMA Standard 11- 15- 1991

2. Types and length of Span

Test span shall be simple beam spans with free unrestrained ends. Trays shall not have side restraints. Span lengths shall be as specified plus or minus 1- 1/2 inches(38.1)

NEMA Standard 11- 15- 1984

3. Orientation of Specimens

Specimens shall be tested in a horizontal position. The total length of the test specimen shall be not more than the specified span length plus 20 percent. Any overhang shall be equal.

4. Supports

Each end of the specimen shall be supported by an 1- 1/8 inch (28.6) wide by 3/4 inch(19.0) high steel bar(s) with a 120 degree "Vee" notch shall rest on a 1 inch (25.4) solid round steel bar which is welded at a maximum of 12 inches (305) on center to a firm steel base, or the specimen shall be supported directly on a 2- 1/2 inch (63.5) maximum diameter round steel bar or heavy wall steel tube welded to a firm steel base.

NEMA Standard 11- 15- 1984

5. Loading Material

Loading material shall be steel strips, lead ingots, or other loading material.

Steel strips shall have rounded or deburred edges, a maximum thickness of 1/8 inch (3.18) a width of 1- 1/8 (28.6) to 2 inches (50.8), a maximum length of 4 feet (122).

Five lead ingots, each weighing approximately 5 pounds (2.26 kg), shall be interconnected across corners into a string of 5 ingots approximately 22 inches (559) long. Individual ingots are normally hexagonal, approximately 3 inches (76.2) in diameter and 1- 1/2 inches (38.1) deep.

Other loading material shall have a maximum weight of 10 pounds (4.53 kgs), a maximum width of 5 inches (127) and a maximum length of 12 inches (305)

NEMA Standard 11- 15- 1984

6. Loading

All specimens shall be loaded to destruction. The load shall be applied in at least 10 increments which are approximately equal.

Loading shall be uniformly distributed for the length and breadth of the specimen except that the loading material shall be not closer than 1/2 inch (12.7) nor further than 1 inch (25.4) from the innermost elements of the side rails. It shall be arranged across the tray with a minimum of 3/8 inch (9.53) between stacks so that the loading material does not bridge transversely. All loading material shall be placed between the supports without overhanging.

For loading weight in a ladder type tray, it shall be permissible to cover the bottom of the tray between supports with a flat sheet of No.9 gauge (3.8) flattened expanded material not more than 3 feet (910) long. The expanded metal or steel sheet shall not be fastened to the tray and shall be not closer than 1/2 inch (12.7) to the side rails. The 3-foot (910) lengths shall not overlap. The weight of the expanded metal or sheet steel shall be added to the total weight of the loading material.

NEMA Standard 11- 15- 1984

NEMA STANDARDS

METALLIC CABLE TRAY SYSTEMS, FITTINGS & ACCESSORIES



7. Destruction Load Capacity

The total weight of the loading material on the cable tray at the time it is destroyed shall be considered to be the destruction load capacity of the cable tray.

NEMA Standard 11-15-1984

8. Interpolation and Extrapolation of Test Data

When allowable load and deflection data are determined by load tests, values for span lengths not tested shall be determined by interpolation from a curve based on values for a minimum of three tested span lengths. Extrapolation towards shorter span lengths is permissible but shall not be used for span lengths longer than the longest span length tested.

NEMA Standard 11-15-1984

DEFLECTION TEST

The vertical deflection of the tray shall be measured at two points along the line midway between the supports and right angles to the longitudinal axis of the tray. The two points of measurements shall be at the midpoint of the span of each side rail.

The average of these two readings shall be considered to be the vertical deflection of the tray.

NEMA Standard 3-14-1979

Section 5

SPECIFICATIONS AND DRAWINGS

1. DATA TO APPEAR IN SPECIFICATION

The following statement and minimum data, when applicable, should appear in all cable tray specifications:

1. Cable tray shall be manufactured and installed in accordance with NEMA Standard VE 1-1991
2. Load / Span Class designations
3. Type
4. Material
5. Finish
6. Rung Spacing
7. Inside Depth
8. Width
9. Fitting Radius
10. Accessories

Authorized Engineering Information 11-15-1991

2. DATA TO APPEAR ON DRAWINGS

The following minimum data should appear on all cable tray drawings:

1. Type (Ladder, trough ect)
2. Width
3. Straight Section, fitting or accessories
4. Fitting radii
5. Elevation (Bottom of tray)
6. Vertical and Horizontal changes on direction
7. Clearances – vertical and horizontal
8. Number of trays
9. Supports
10. Show graphic Scale

Authorized Engineering Information 11-15-1991

Section 6

APPLICATION INFORMATION

1. DEFLECTION

Under normal applications deflection limitations should not be included in design criteria for cable tray. However, if unusual or special conditions exist, the manufacturer should be consulted. Limitations of deflection for aesthetic purpose only can result in an over-designed tray system.

Authorized Engineering Information 3-14-1979

2. CONCENTRATED STATIC LOAD

(If required by User)

Some user applications may require that a given concentrated static load be imposed over and above the working load.

Such a concentrated static load represents a static weight applied between the side rails at midspan. When so specified, the concentrated static load may be converted to an equivalent, uniform load (We) in pounds per linear foot (Kilograms per meter) using the formula:

$$We = \frac{2 \times (\text{Concentrated Static Load})}{\text{Span length. (ft.) (m)}}$$

and added to the static weight of cables in the tray. This combined load may be used to select a suitable load/ span designation. If the combined load exceeds the working load, the manufacturer should be consulted.

Authorized Engineering Information 11-15-1984

3. WARNING! WALKAWAYS

In as much as cable tray is designed as a support for power or control cables, or both and is not intended or designed to be a walkaway for personnel, the user is urged to display appropriate warnings cautioning against the use of this support as a walkaway. The following language is suggested.

Warning! Not to be used as a walkaway, ladder or support for personnel. To be used only as a mechanical support for cables and tubing;

Authorized Engineering Information 3-14-1979

4. FITTINGS

Changes in direction should be mechanically continuous and accomplished by use of fittings having dimensions in accordance with 2.3.

Authorized Engineering Information 3-14-1979

5. SUPPORTS

Supports for cable trays should provide a strength and working load capacity sufficient to meet the load requirement of the cable tray systems.

1. Horizontal and vertical tray supports should provide an adequate bearing surface for the tray and should have provisions for hold down clamps or fasteners.
2. In addition vertical tray supports should provide secured means for fastening cable trays to supports.

Authorized Engineering Information 3-14-1979

6. SUPPORT LOCATION

Horizontal Cable Tray Straight Sections

Horizontal cable tray straight sections should be supported at intervals not to exceed the support span for the appropriate NEMA Class Designation. Unspliced straight sections should be used on all simple spans and on end spans of continuous span runs. A support should be located within 2 feet (610) of each side of an expansion connector. Straight section lengths should be equal to or greater than the span length to ensure not more than one splice between supports.

Authorized Engineering Information 11-15-1991

NEMA STANDARDS

METALLIC CABLE TRAY SYSTEMS, FITTINGS & ACCESSORIES



7. Horizontal Cable Tray Fittings

1. Horizontal Elbow Supports

Supports for horizontal tray fittings should be placed within 2 feet (610) of each fitting extremity, and as follows:

- a). 90-degree supports at the 45-degree point of arc
- b). 60-degree supports at the 30 -degree point of arc
- c). 45-degree supports at the 22- 1/2 -degree point of arc
(except for the 12 - inch (305) radii)
- d). 30-degree supports at the 15-degree point of arc
(except for the 12 - inch (305) radii)

2. Horizontal Tee Supports

Within 2 feet (610) of each of the three openings connected to other cable tray items for the 12 inch (305) radius. On all other radii, at least one support should be placed under each side rail of the horizontal tee.

3. Horizontal Cross Supports

Within 2 feet (610) of each of the four openings connected to other cable tray items for the 12 inch (305) radius. On all other radii, at least one support should be placed under each side rail of the horizontal cross.

4. Horizontal Wye Supports

Within 2 feet (610) of each of the four openings connected to other cable tray items, and 22-1/2 degree point of the arc adjacent to the branch.

5. Reducer Supports

Within 2 feet (610) of each fittings extremity.

Authorized Engineering Information 11- 15- 1984

8. Vertical Cable Tray Elbows

Vertical cable tray elbows at the top of runs should be supported at each end. Vertical cable tray elbows at the bottom of runs should be supported at the top of the elbow, and within 2 feet (610) of the lower extremity of the elbow.

Authorized Engineering Information 11- 15- 1984

9. Vertical Cable Tray Tees

Vertical cable tray trees should be supported within 2 feet (610) of each fitting extremity.

Authorized Engineering Information 11- 15- 1984

10. Vertical Straight Section

Vertical straight sections should be supported indoors at appropriate intervals permitted by the building structure; outdoor support intervals should be determined by wind loading . The maximum distance between vertical supports should not exceed 24 feet (7320) on centers.

Authorized Engineering Information 11- 15- 1984

11. Sloping Trays

Sloping trays should be supported at intervals not exceeding those for horizontal trays of the same design for the same installation.

Authorized Engineering Information 11- 15- 1984

12. Fittings as End of Run

A fitting which is used as an end of the run dropout should have a support attached to it, firmly reinforcing the fitting.

Authorized Engineering Information 11- 15- 1984

PROTECTON OF CABLE INSULATION

The inside of cable tray systems should present no sharp edges, burrs or projections which could damage cable insulation.

Authorized Engeneering Information 11- 15- 1984

CABLE INSTALLATION

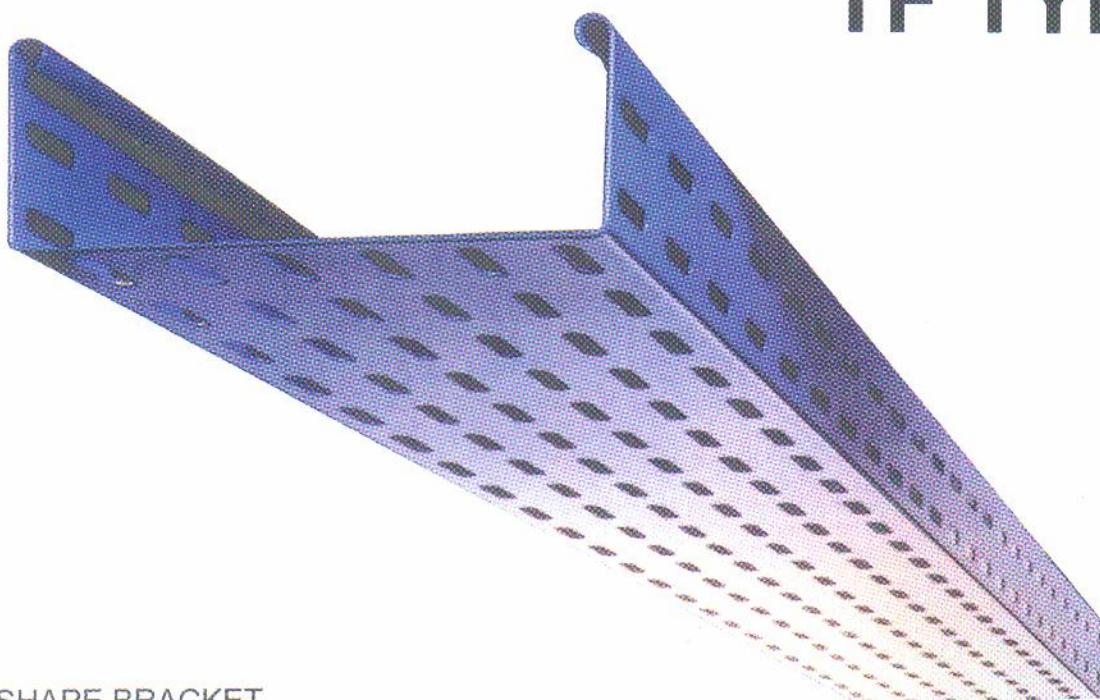
When installing cable in cable tray, it is important that care and planning be exercised so that the cable or the cable tray is not damaged or destroyed. The cable manufacturer should be contacted for maximum pulling tensions and minimum bending radii and advice on prevention of "egging" or deformation of cable jacketing or shielding.

Authorized Engeneering Information 11- 15- 1984

TRAYS



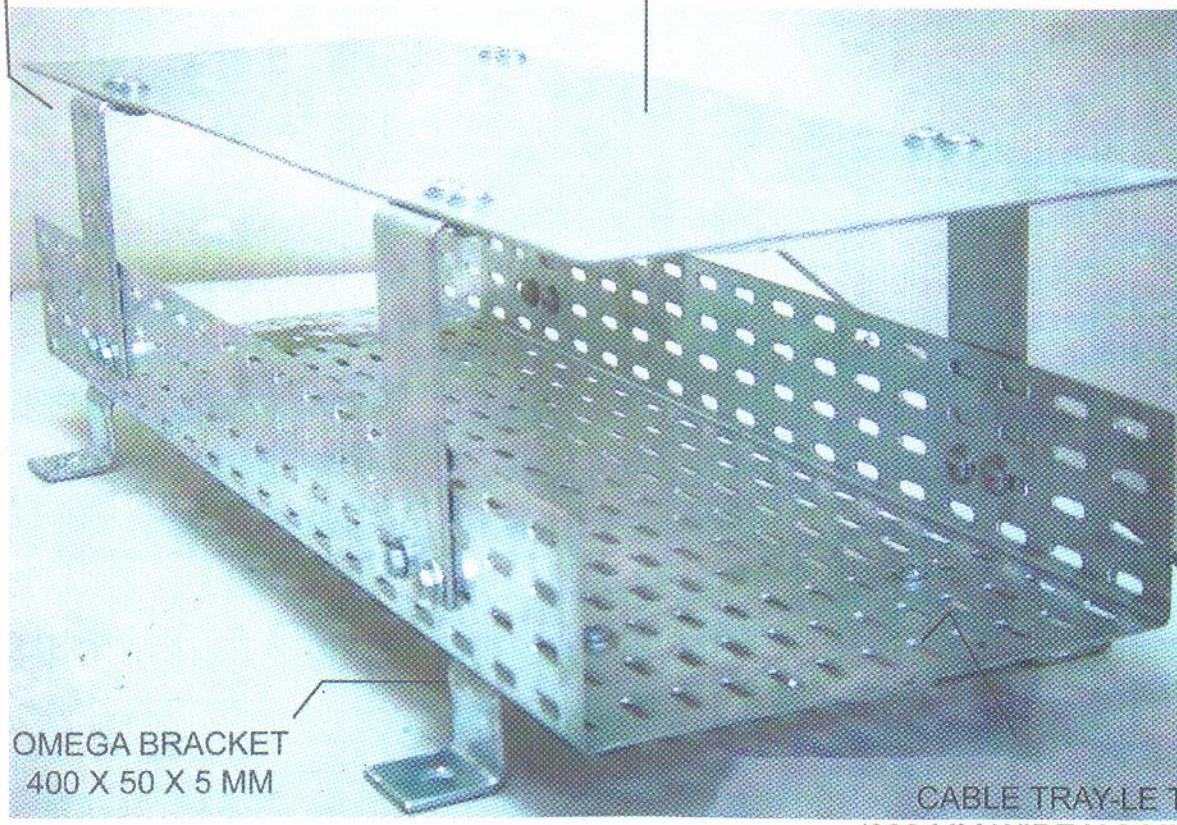
TF TYPE



«L» SHAPE BRACKET
178 X 50 X 5 MM

3 MM THICK STEEL COVER

LE TYPE

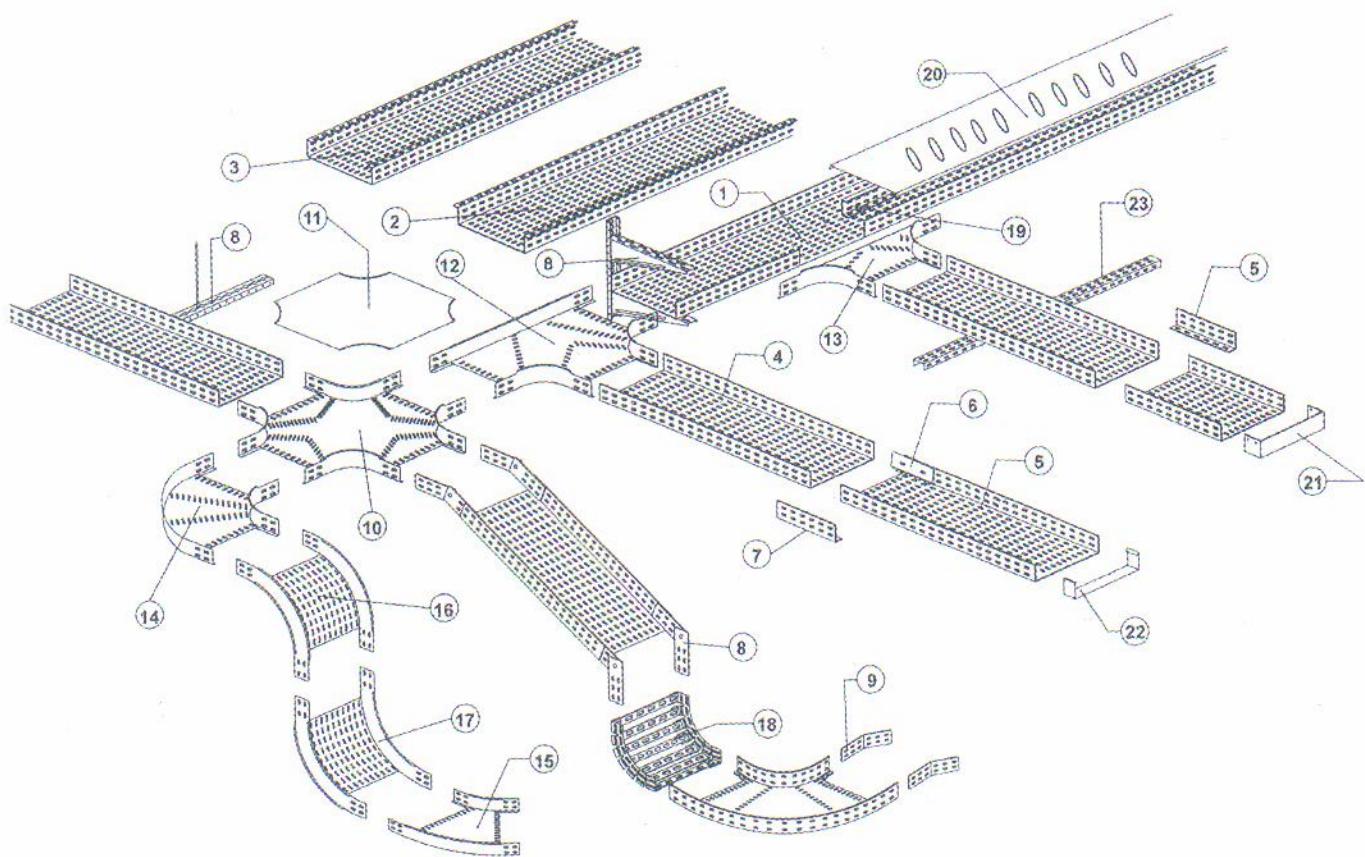


OMEGA BRACKET
400 X 50 X 5 MM

CABLE TRAY-LE TYPE
(300 MM WIDE X 2 MM THICK)

PRODUCT RANGE

CABLE TRAY SYSTEM



1 - TYPE-TF CABLE TRAY
 2 - TYPE-FE CABLE TRAY
 3 - TYPE-LE CABLE TRAY
 4 - TYPE - CE CABLE TRAY
 5 - TYPE - ME CABLE TRAY
 6 - CLIP-ON-COUPLER
 7 - CORNERED SPLICE PLATE
 8 - HINGED SPLICE PLATE
 9 - BENDABLE SPLICE PLATE

10 - CROSS
 11 - COVERS FOR CONNECTING UNITS
 12 - Tee
 13 - TAKE OFF
 14 - 90° BEND
 15 - 135° BEND
 16 - 90° OUTSIDE BEND
 17 - 90° INSIDE BEND

18 - SIMPLIFIED CONNECTING UNITS
 19 - DIVIDER
 20 - COVER / WFV
 21 - END PLATE
 22 - END CAP
 23 - PERFORATED PROFILES

GENERAL INFORMATION CABLE TRAY



STANDARD LENGTH OF THE TRAY : 2440 - 3000

STANDARD SIDE HEIGHT :
: 25 - 30
: 50 - 75
: 75 - 100
: 100 - 150

LIGHT DUTY TRAY

50 - 200 wide x 1.0 METAL THICKNESS

250 - 350 wide x 1.2 METAL THICKNESS

400-600 WIDE x 1.5 METAL THICKNESS

MEDIUM DUTY TRAY

100 - 300 wide x 1.2 METAL THICKNESS

350-600 WIDE x 1.5 METAL THICKNESS

HEAVY DUTY TRAY

100 - 350 wide x 1.5 METAL THICKNESS

400-1000 WIDE x 2.0 METAL THICKNESS

NOTES: 1. ALL DIMENSIONS ARE IN MILLIMETERS.

CABLE TRAY ORDERING CHARTS

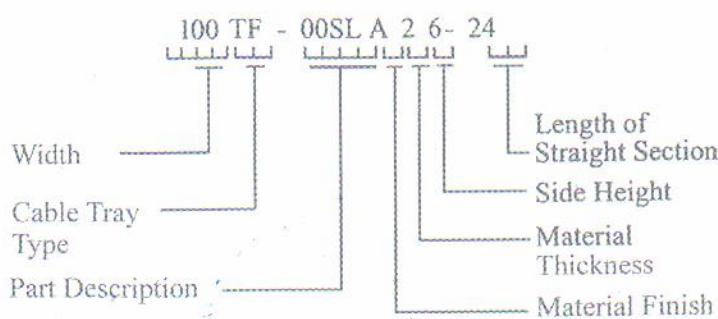


WIDTH (mm)	CABLE TRAY TYPE	PART DESCRIPTION	MATERIAL	THICKNESS	SIDE HEIGHT	LENGTH/ RADIUS
50	TF Inside Return Flange	00SL - Straight Length	A Mill Galvanized Finish	1 1.00mm	3 30mm	STRAIGHT SECTION
100		90HB - 90 Deg. Horizontal Bend				24 2.44 meters
150	FE OUTSIDE Return Flange	45 HB - 45 Deg. Horizontal Bend				30 3.00 meters
200		90IR - 90 Deg. Inside Riser	B Hot Dip Galvanized (H.D.G.A.F.)	2 1.20mm	5 50 mm	
250		45IR - 45 Deg. Inside Riser				
300		90OR - 90 Deg. Outside Riser				
350	LE Plain	45OR - 45 Deg. Outside Riser	C Aluminum	3 1.50mm	6 60mm	FITTING RADIUS
400		00TH - Horizontal Unequal Tee			7 75 mm	30 300mm
		00TU - Horizontal Unequal Tee	D Stainless Steel	4 2.00mm	10 100mm	
500	CE Inside Flange	00CH - Horizontal Unequal Cross				60 600mm
600		00UC - Horizontal Unequal Cross				
700	ORHR Right Hand Reducer	0RHR - Right Hand Reducer				
800	OLHR Left Hand Reducer	OLHR - Left Hand Reducer	E Powder Coated			90 900mm
900	ME Outside Flange	00SR - Straight Reducer				
1000						
1111	1111	11111				

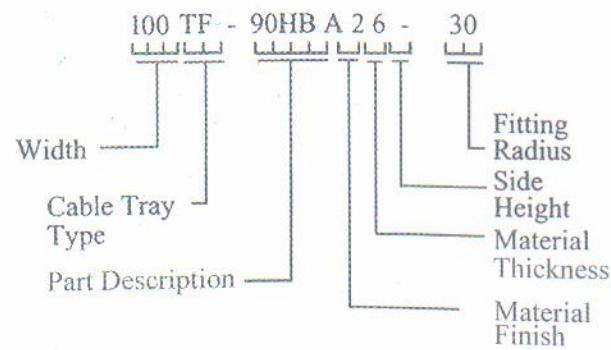
Note: All dimensions are in millimeters, unless otherwise specified.

PART NUMBERING SYSTEM

STRAIGHT SECTION



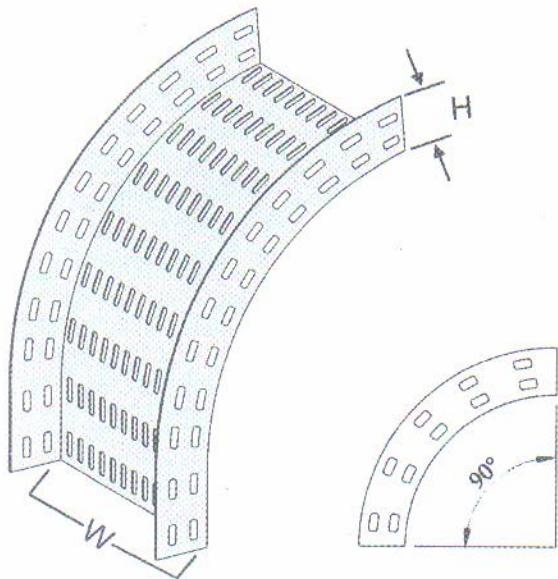
FITTING SECTION



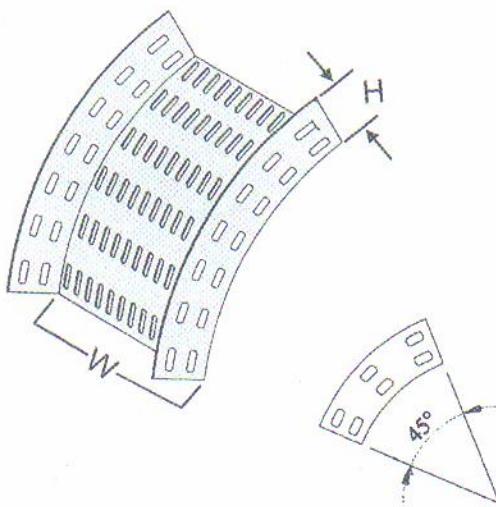
CABLE-TRAY ORDERING CHARTS



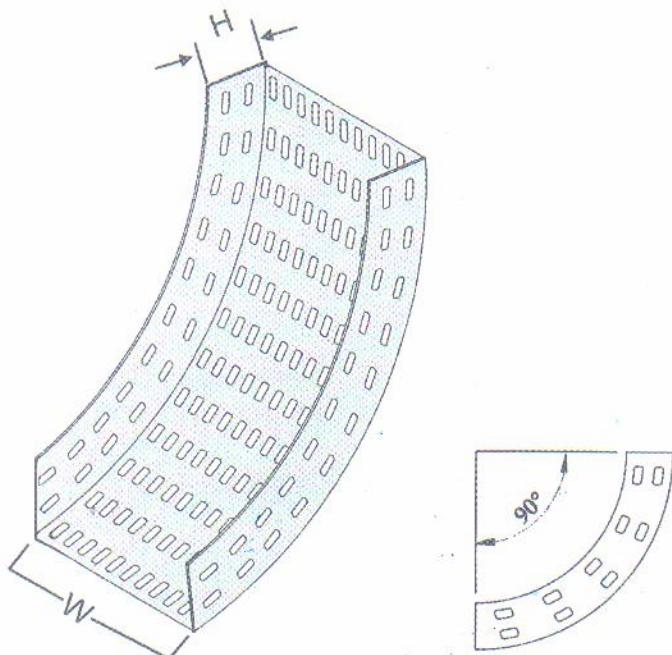
90° OUTSIDE RISER
PART DESCRIPTION: 90OR



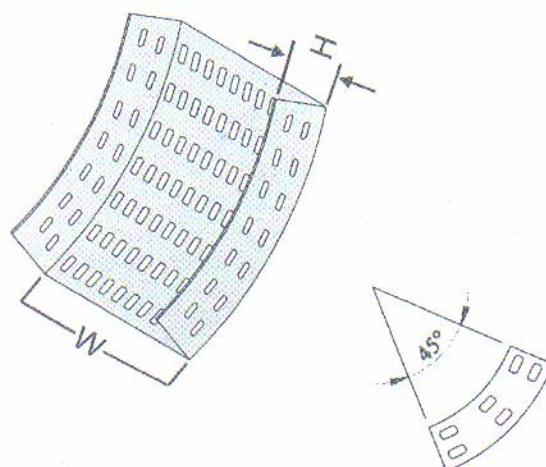
45° OUTSIDE RISER
PART DESCRIPTION: 45OR



90° INSIDE RISER
PART DESCRIPTION: 90IR



45° INSIDE RISER
PART DESCRIPTION: 45IR

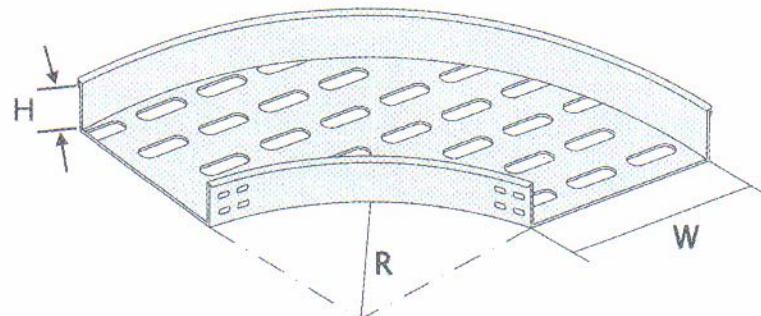


CABLE TRAY FITTINGS



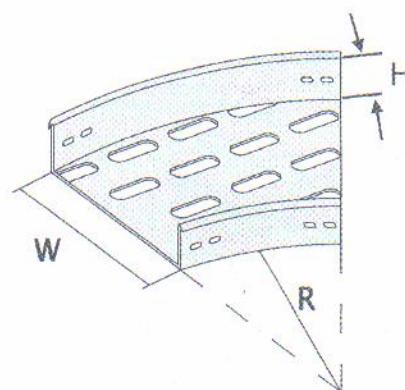
90° HORIZONTAL ELBOW

PART DESCRIPTION: 90HB



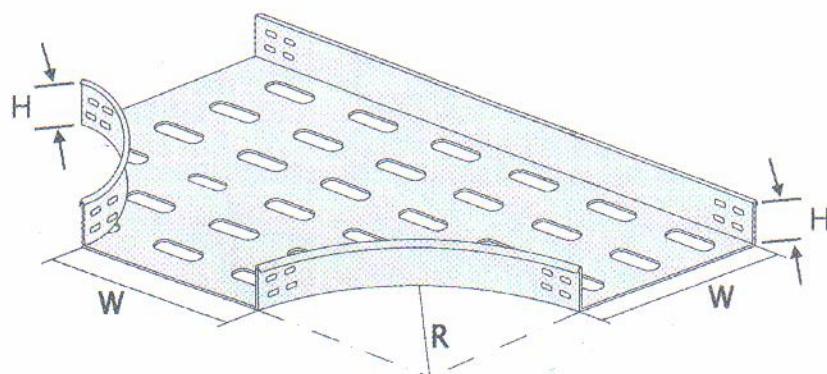
45° HORIZONTAL ELBOW

PART DESCRIPTION: 45HB



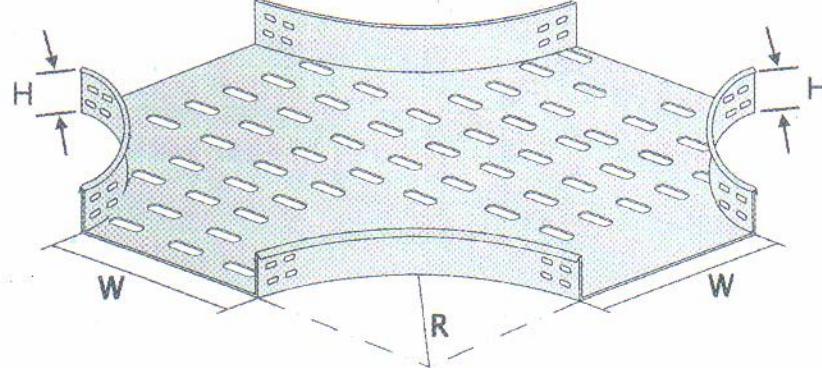
HORIZONTAL Tee

PART DESCRIPTION: 00TH



HORIZONTAL CROSS

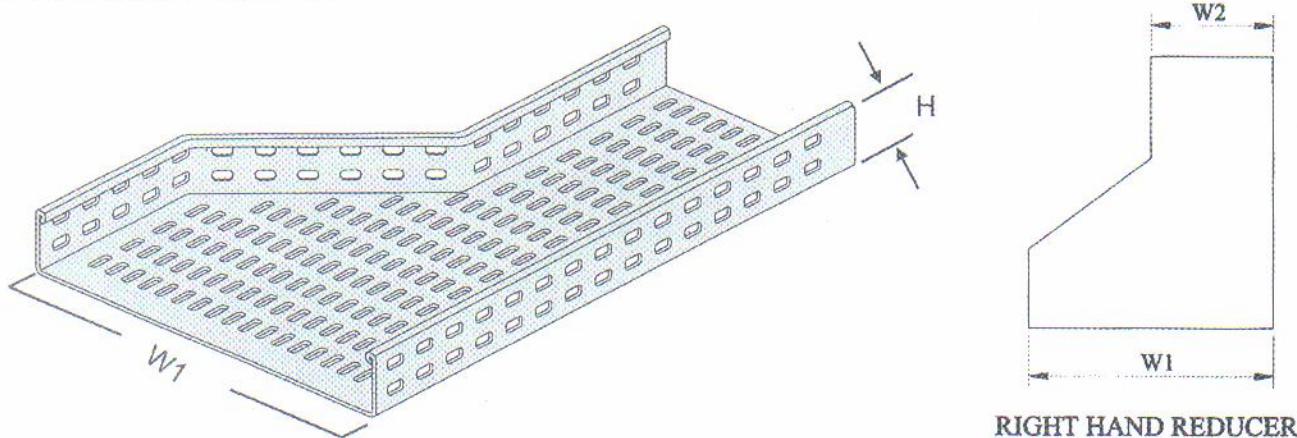
PART DESCRIPTION: 00CH



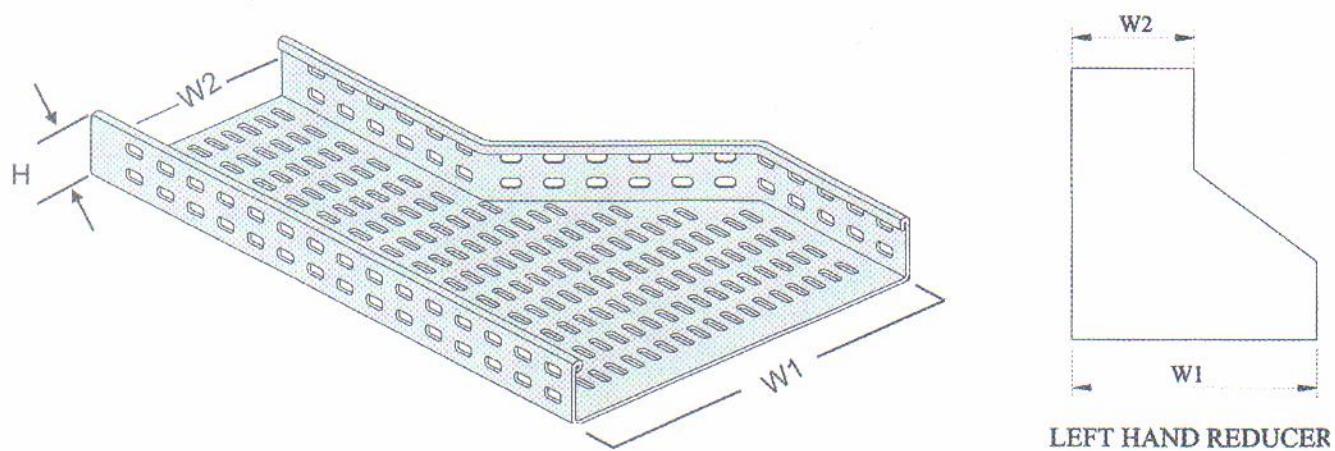
CABLE TRAY FITTINGS



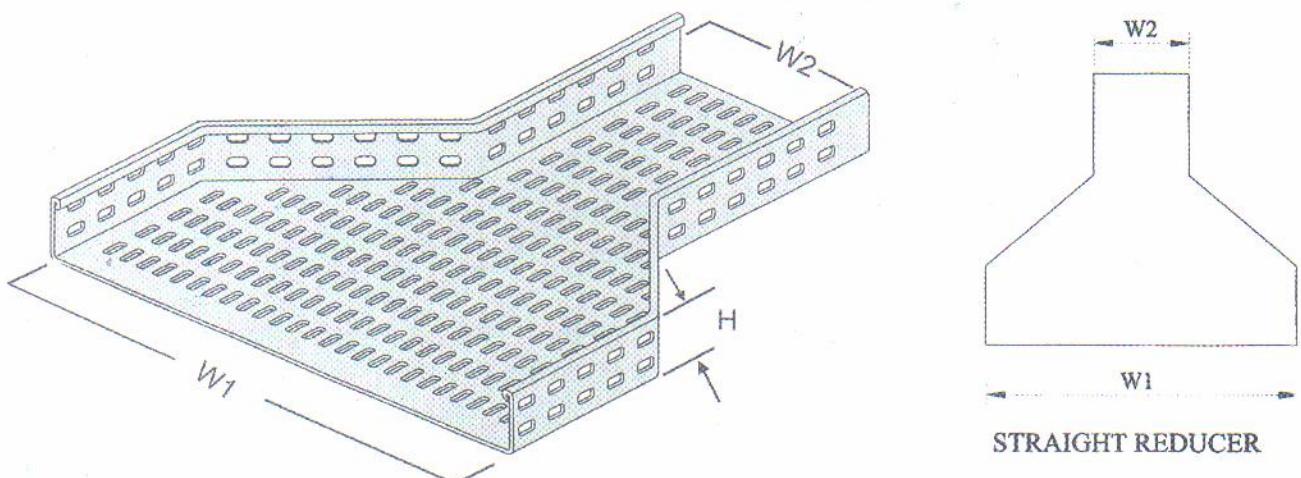
RIGHT HAND REDUCER
PART DESCRIPTION: 0RHR



LEFT HAND REDUCER
PART DESCRIPTION: 0LHR



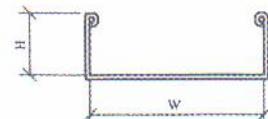
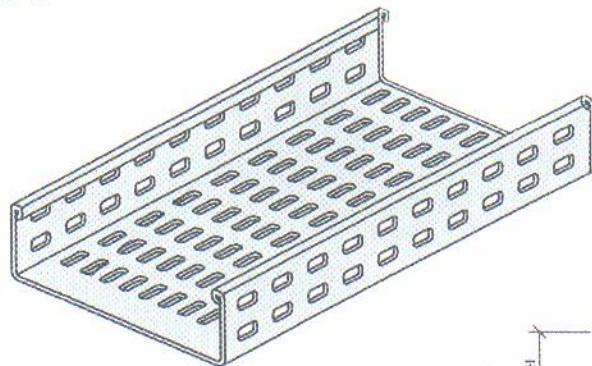
STRAIGHT REDUCER
PART DESCRIPTION: 00SR



CABLE TRAY TYPE

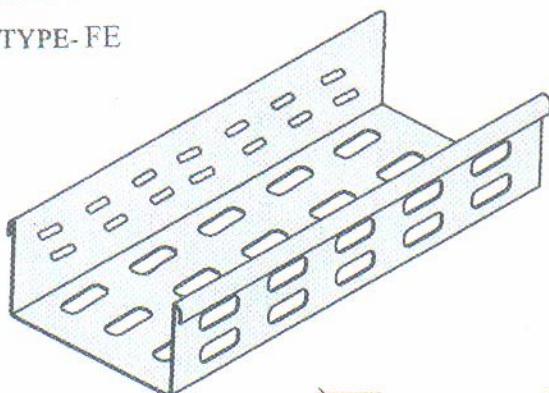


TYPE-TF

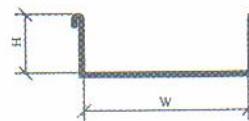


No. 1

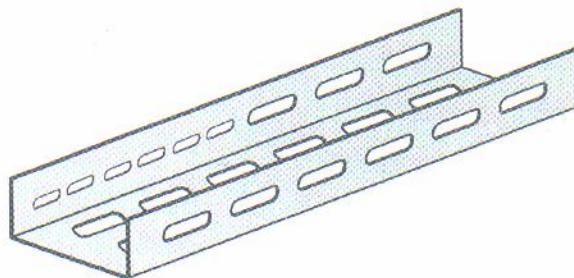
TYPE-FE



No. 2



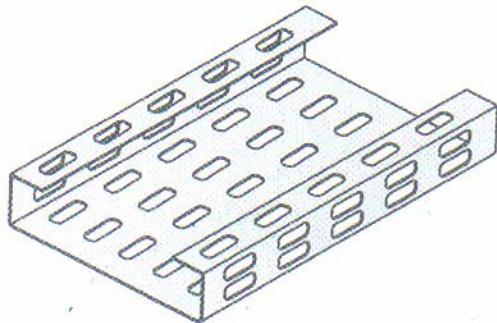
TYPE LE



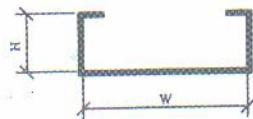
No. 3



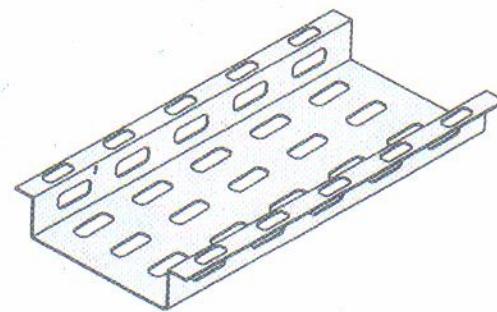
TYPE- CE



No. 4



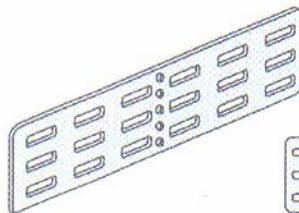
TYPE- ME



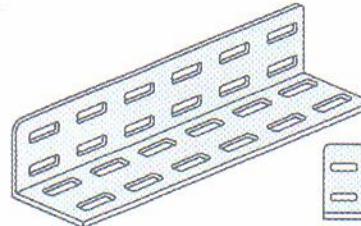
No. 5



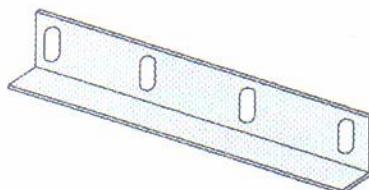
CABLE TRAY FITTINGS



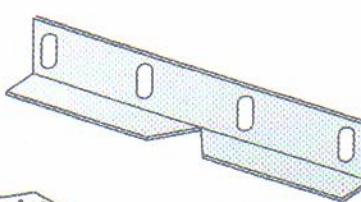
BENDABLE SPLICE PLATE
Part Reference : BSP ; 2



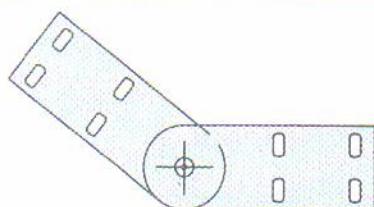
STANDARD CONNECTORS
50 x 50 x 260 mm
75 x 50 x 260 mm
25 x 50 x 260 mm
Part Reference : S.C.I



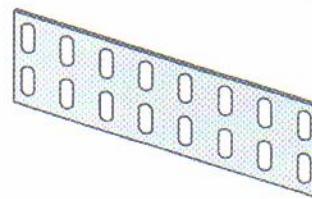
HORIZONTAL FITTING CONNECTOR
Side Height: 30mm & 60mm
Part Reference: HFC 4



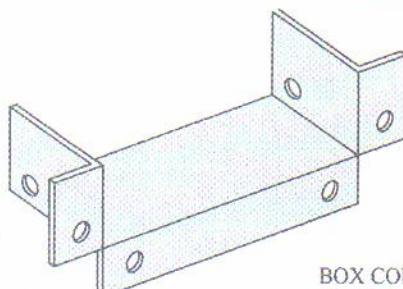
BENDABLE HORIZONTAL
FITTING CONNECTOR
Part Reference : BHFC 3



VERTICAL ADJUSTABLE
CONNECTOR
Part Reference : VAC 6



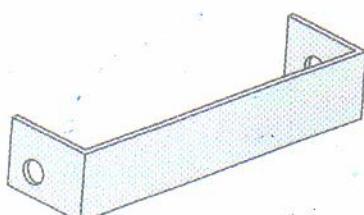
STANDARD FLAT CONNECTOR
Side Height: 30 to 100 mm
Part Reference : SFC 5



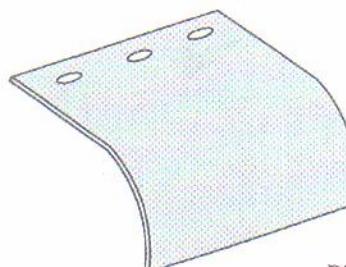
BOX CONNECTOR
Part Reference : BC 8



GROUND BONDING
JUMPER
Part Reference : GBJ 7



BLIND END
Part Reference : BEU

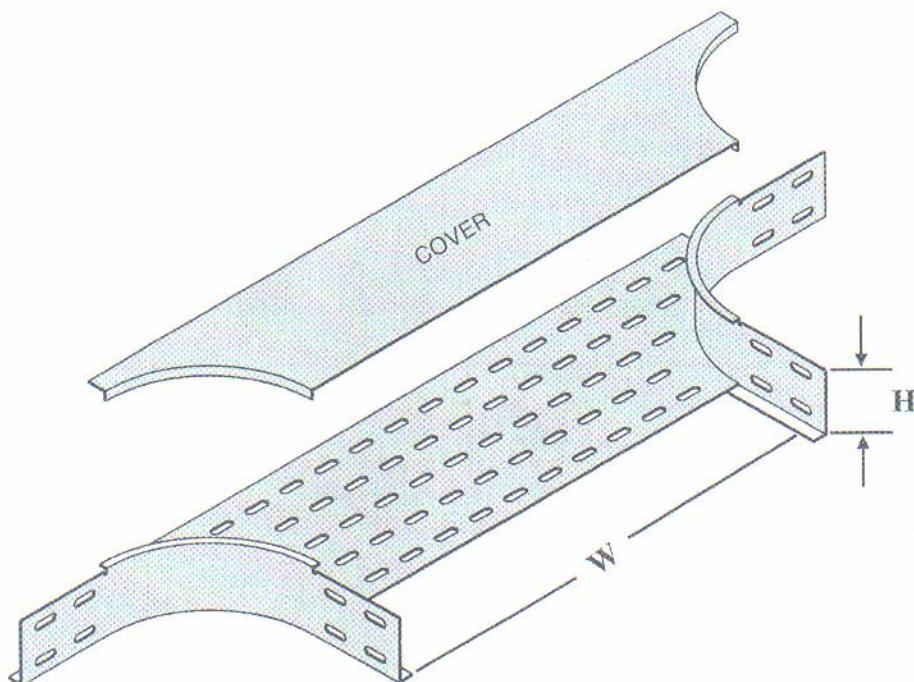


DROP OUT
Part Reference : DO 9

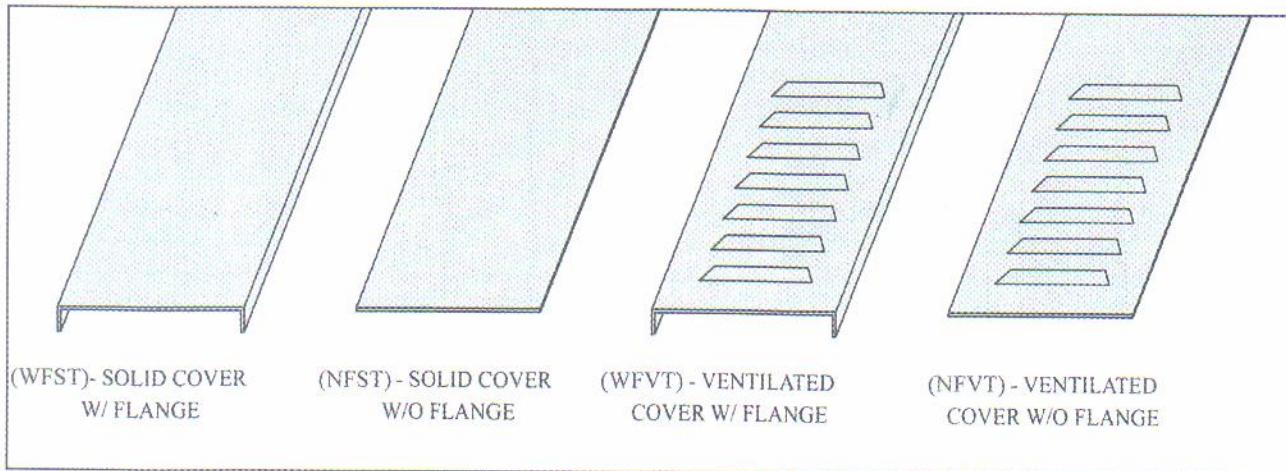
TAKE-OFF TRAY



PART DESCRIPTION : 00T0



CABLE TRAY COVERS



ORDER BY CATALOG NUMBER

STRAIGHT LENGTHS

EXAMPLE :

WFS A - 00SL 100 - 24

WFS = SOLID WITH FLANGE TYPE
A = MILL GALVANIZED STEEL
SL = STRAIGHT LENGTH
100 = WIDTH
24 = 2.44 METER LENGTH

FITTINGS

EXAMPLE :

100 TF - 90HB 300 - A

100 = FITTING WIDTH
TF = PLAIN TYPE CABLE TRAY
90HB = 90 DEG. HORIZONTAL ELBOW
300 = 300mm RADIUS
A = MILL GALVANIZED STEEL

COVER TYPE	MATERIAL	PART DESCRIPTION
STRAIGHT LENGTHS		
WFST SOLID W/ FLANGE	A MILL GALVANIZED	00SL - Straight Length 90HB - 90 Deg. Horizontal Bend 45HB - 45 Deg. Horizontal Bend 90IR - 90 Deg. Inside Riser 45IR - 45 Deg. Inside Riser 90OR - 90 Deg. Outside Riser 45OR - 45 Deg. Outside Riser
NFST SOLID W/O FLANGE		00TH - Horizontal Tee 00 TU - Horizontal Unequal Tee 00CH - Horizontal Cross 00 UC - Horizontal Unequal Cross 0RHR - Right Hand Reducer
WFVT VENT. W/ FLANGE	B Hot Dip Galvanized (H.D.G.A.F.)	0LHR - Left Hand Reducer 00SR - Straight Reducer
NFVT VENT. W/O FLANGE	C ALUMINUM	

WIDTH	LENGTH/ RADIUS
50	STRAIGHT LENGTHS
100	24 2.40 Meters
150	30 3.00 Meters
200	
220	
300	FITTING RADIUS
350	30 300 mm.
400	
500	60 600 mm.
600	
700	
800	
900	90 900 mm.
1000	

CABLE TRAY LOAD CAPACITY



CABLE TRAY WIDTH	CABLE DATA				CABLE TRAY CAPACITY						
	x SECTION Sq. mm.	OVER ALL Dia. mm.	WEIGHT Kg. / m.	HEIGHT - 25 mm		HEIGHT - 50 mm		HEIGHT - 75 mm		HEIGHT - 100 mm	
				No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.
CABLE TRAY WIDTH - 50mm	1.5	13.40	0.240	5	1.2	11	2.64	17	4.00	23	5.62
	2.5	14.40	0.300	4	1.2	8	2.40	15	4.50	21	6.30
	4.0	16.60	0.420	3	0.72	7	1.20	12	1.26	15	6.30
	6.0	17.80	0.525	2	1.05	6	3.10	10	5.25	14	7.30
	10.0	19.70	0.745	2	1.49	4	3.00	8	6.00	11	8.00
	16.0	23.10	1.050	2	2.1	3	3.15	5	5.25	7	7.40
	25.0	27.20	1.545	-	-	1	1.54	3	4.60	4	6.18
	35.0	25.10	1.690	-	-	1	1.70	2	3.40	3	5.00
	50.0	29.20	2.275	-	-	1	2.20	2	4.50	2	4.50
	70.0	32.90	3.140	-	-	1	3.10	1	3.10	1	3.10
	95.0	37.60	4.280	-	-	1	4.30	1	4.30	1	4.30
	120.0	39.90	5.250	-	-	1	5.30	1	5.30	1	5.30
	150.0	44.50	6.485	-	-	1	6.50	1	6.50	1	6.50
	185.0	50.30	8.095	-	-	-	-	1	8.00	1	8.00
	240.0	56.50	10.52	-	-	-	-	1	10.50	1	10.50
	300.0	62.60	13.11	-	-	-	-	1	13.10	1	13.10
CABLE TRAY WIDTH - 75mm	1.5	13.40	0.240	8	1.90	18	4.30	26	6.30	35	8.40
	2.5	14.40	0.300	6	1.80	12	3.60	22	6.60	31	9.30
	4.0	16.60	0.420	4	1.70	11	4.60	18	7.50	23	9.60
	6.0	17.80	0.525	4	2.10	9	4.70	15	7.80	20	10.50
	10.0	19.70	0.745	3	2.20	6	4.40	12	8.90	18	13.40
	16.0	23.10	1.050	3	3.20	5	5.30	7	7.40	12	12.60
	25.0	27.20	1.545	-	-	3	4.60	5	7.70	7	10.80
	35.0	25.10	1.690	-	-	3	5.00	3	5.00	4	6.80
	50.0	29.20	2.275	-	-	2	4.60	3	6.60	3	6.60
	70.0	32.90	3.140	-	-	2	6.30	2	6.30	2	6.30
	95.0	37.60	4.280	-	-	1	4.30	1	4.30	2	8.60
	120.0	39.90	5.250	-	-	1	5.25	1	5.25	1	5.25
	150.0	44.50	6.485	-	-	1	6.50	1	6.50	1	6.50
	185.0	50.30	8.095	-	-	-	-	1	8.00	1	8.00
	240.0	56.50	10.52	-	-	-	-	1	10.50	1	10.50
	300.0	62.60	13.11	-	-	-	-	1	13.10	1	13.10
CABLE TRAY WIDTH - 100mm	1.5	13.40	0.240	12	2.88	25	6.00	38	9.10	50	12.00
	2.5	14.40	0.300	9	2.70	18	5.40	31	9.30	44	13.20
	4.0	16.60	0.420	6	2.52	15	5.30	25	10.50	32	13.40
	6.0	17.80	0.525	6	3.15	13	6.80	20	10.50	29	15.20
	10.0	19.70	0.745	5	3.72	8	6.00	17	12.60	24	17.80
	16.0	23.10	1.050	4	4.20	7	7.30	10	10.50	16	16.80
	25.0	27.20	1.545	-	-	4	6.18	7	10.78	10	15.40
	35.0	25.10	1.690	-	-	3	5.07	5	8.45	6	10.40
	50.0	29.20	2.275	-	-	2	4.55	4	9.10	4	9.00
	70.0	32.90	3.140	-	-	2	6.28	3	9.42	3	9.40
	95.0	37.60	4.280	-	-	2	8.56	2	8.56	3	12.80
	120.0	39.90	5.250	-	-	2	10.50	1	5.25	2	10.50
	150.0	44.50	6.485	-	-	2	12.90	1	6.48	1	6.48
	185.0	50.30	8.095	-	-	-	-	1	8.95	1	8.90
	240.0	56.50	10.52	-	-	-	-	1	10.50	1	10.50
	300.0	62.60	13.110	-	-	-	-	1	13.10	1	13.10

CABLE TRAY LOAD CAPACITY



CABLE TRAY WIDTH	CABLE DATA						CABLE TRAY CAPACITY					
	x SECTION Sq. mm.	OVER ALL Dia. mm.	WEIGHT Kg. / m.	HEIGHT - 25 mm		HEIGHT - 50 mm		HEIGHT - 75 mm		HEIGHT - 100 mm		
				No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	
CABLE TRAY WIDTH - 150mm	1.5	13.40	0.240	18	4.30	38	9.10	60	14.40	80	19.20	
	2.5	14.40	0.300	14	4.2	26	7.80	46	13.80	65	19.50	
	4.0	16.60	0.420	9	3.8	25	10.50	35	14.70	50	21.00	
	6.0	17.80	0.525	8	4.2	23	12.00	30	15.80	45	23.60	
	10.0	19.70	0.745	7	5.2	12	9.00	24	17.80	38	28.30	
	16.0	23.10	1.050	6	6.3	10	10.50	15	15.80	27	28.40	
	25.0	27.20	1.545	-	-	6	8.80	13	20.00	18	27.80	
	35.0	25.10	1.690	-	-	5	8.50	8	13.60	12	20.30	
	50.0	29.20	2.275	-	-	4	9.10	6	13.70	9	20.50	
	70.0	32.90	3.140	-	-	3	9.50	6	18.90	6	18.90	
	95.0	37.60	4.280	-	-	3	12.90	3	12.90	6	25.70	
	120.0	39.90	5.250	-	-	2	10.50	3	15.80	4	21.00	
	150.0	44.50	6.485	-	-	-	-	3	19.50	3	19.50	
	185.0	50.30	8.095	-	-	-	-	3	24.30	3	24.30	
	240.0	56.50	10.52	-	-	-	-	1	10.50	1	10.50	
	300.0	62.60	13.11	-	-	-	-	1	13.10	1	13.10	
CABLE TRAY WIDTH - 200mm	1.5	13.40	0.240	26	6.24	54	13.00	82	19.60	110	26.40	
	2.5	14.40	0.300	21	6.30	36	10.80	65	19.50	90	27.00	
	4.0	16.60	0.420	14	5.80	35	14.70	48	20.10	70	29.40	
	6.0	17.80	0.525	13	6.80	32	16.80	43	22.50	65	34.10	
	10.0	19.70	0.745	10	7.40	18	13.40	34	25.30	53	39.40	
	16.0	23.10	1.050	8	8.40	15	15.70	22	23.10	38	40.00	
	25.0	27.20	1.545	-	-	8	12.30	19	7.70	26	40.20	
	35.0	25.10	1.690	-	-	7	11.80	11	18.60	16	27.00	
	50.0	29.20	2.275	-	-	6	13.60	9	20.40	13	29.50	
	70.0	32.90	3.140	-	-	5	15.70	8	25.20	8	25.20	
	95.0	37.60	4.280	-	-	4	17.20	5	21.40	8	34.30	
	120.0	39.90	5.250	-	-	3	15.70	4	21.00	6	31.50	
	150.0	44.50	6.485	-	-	3	19.40	4	26.00	5	32.50	
	185.0	50.30	8.095	-	-	-	-	4	32.40	4	32.40	
	240.0	56.50	10.52	-	-	-	-	2	21.00	2	21.00	
	300.0	62.60	13.11	-	-	-	-	2	26.20	2	26.20	
CABLE TRAY WIDTH - 250mm	1.5	13.40	0.240	28	6.70	60	14.40	90	21.60	123	29.50	
	2.5	14.40	0.300	25	7.50	45	13.50	80	24.00	103	40.00	
	4.0	16.60	0.420	15	6.30	33	13.90	60	25.20	85	35.70	
	6.0	17.80	0.525	11	5.70	30	15.80	55	28.90	70	36.80	
	10.0	19.70	0.745	13	9.60	24	17.80	48	31.30	72	53.60	
	16.0	23.10	1.050	9	9.50	19	20.00	30	31.50	40	42.00	
	25.0	27.20	1.545	-	-	11	17.00	22	34.00	32	42.40	
	35.0	25.10	1.690	-	-	11	18.60	20	33.80	25	42.30	
	50.0	29.20	2.275	-	-	8	18.20	14	31.80	20	45.50	
	70.0	32.90	3.140	-	-	7	22.00	12	37.70	14	44.00	
	95.0	37.60	4.280	-	-	6	25.70	7	30.00	11	47.00	
	120.0	39.90	5.250	-	-	5	1125	6	31.50	9	47.30	
	150.0	44.50	6.485	-	-	-	-	5	32.50	7	45.40	
	185.0	50.30	8.095	-	-	-	-	4	32.40	5	40.50	
	240.0	56.50	10.52	-	-	-	-	3	31.60	4	42.00	
	300.0	62.60	13.110	-	-	-	-	1	26.20	2	26.20	

CABLE TRAY LOAD CAPACITY



CABLE TRAY WIDTH	CABLE DATA				CABLE TRAY CAPACITY						
	x SECTION Sq. mm.	OVER ALL Dia. mm.	WEIGHT Kg. / m.	HEIGHT - 25 mm		HEIGHT - 50 mm		HEIGHT - 75 mm		HEIGHT - 100 mm	
				No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.
CABLE TRAY WIDTH - 300mm	1.5	13.40	0.240	38	9.10	80	19.20	123	29.50	162	38.80
	2.5	14.40	0.300	28	8.40	60	18.00	105	31.50	135	40.50
	4.0	16.60	0.420	17	7.20	47	19.80	76	31.90	103	43.30
	6.0	17.80	0.525	15	7.90	43	22.50	67	35.20	90	47.30
	10.0	19.70	0.745	13	9.60	26	19.40	53	39.50	73	54.40
	16.0	23.10	1.050	11	11.60	23	24.20	35	36.80	51	53.60
	25.0	27.20	1.545	-	-	13	20.00	26	40.20	38	58.70
	35.0	25.10	1.690	-	-	12	20.30	21	35.50	30	35.50
	50.0	29.20	2.275	-	-	11	25.00	20	45.50	26	45.50
	70.0	32.90	3.140	-	-	8	25.20	15	47.10	15	47.10
	95.0	37.60	4.280	-	-	7	30.00	8	34.30	14	34.30
	120.0	39.90	5.250	-	-	4	21.00	6	31.50	12	31.50
	150.0	44.50	6.485	-	-	3	19.50	5	32.50	8	32.50
	185.0	50.30	8.095	-	-	-	-	6	48.50	6	48.50
CABLE TRAY WIDTH - 350mm	240.0	56.50	10.52	-	-	-	-	4	42.00	4	42.00
	300.0	62.60	13.11	-	-	-	-	3	39.40	3	39.40
CABLE TRAY WIDTH - 400mm	1.5	13.40	0.240	45	10.80	93	19.20	145	34.80	190	45.60
	2.5	14.40	0.300	34	10.20	68	18.00	122	36.60	160	48.00
	4.0	16.60	0.420	20	8.40	55	19.80	90	37.80	120	50.40
	6.0	17.80	0.525	18	9.50	50	22.50	78	41.00	104	54.60
	10.0	19.70	0.745	15	11.20	32	19.40	60	44.70	86	64.00
	16.0	23.10	1.050	13	13.70	26	24.20	42	44.10	60	63.00
	25.0	27.20	1.545	-	-	14	20.00	31	47.90	43	66.40
	35.0	25.10	1.690	-	-	12	20.30	25	42.30	34	57.50
	50.0	29.20	2.275	-	-	11	25.00	21	47.70	31	70.50
	70.0	32.90	3.140	-	-	9	25.20	16	50.30	18	56.50
	95.0	37.60	4.280	-	-	7	30.00	9	38.50	15	64.20
	120.0	39.90	5.250	-	-	4	21.00	7	36.80	13	68.30
	150.0	44.50	6.485	-	-	3	19.50	6	39.00	10	64.90
	185.0	50.30	8.095	-	-	-	-	7	56.60	7	56.60
	240.0	56.50	10.52	-	-	-	-	5	52.60	5	52.60
	300.0	62.60	13.11	-	-	-	-	4	52.40	4	52.40

CABLE TRAY LOAD CAPACITY



CABLE TRAY WIDTH	CABLE DATA				CABLE TRAY CAPACITY						
	x SECTION Sq. mm.	OVER ALL Dia. mm.	WEIGHT Kg. / m	HEIGHT - 25 mm		HEIGHT - 50 mm		HEIGHT - 75 mm		HEIGHT - 100 mm	
				No. OF CABLES	WEIGHT Kg. / m	No. OF CABLES	WEIGHT Kg. / m	No. OF CABLES	WEIGHT Kg. / m	No. OF CABLES	WEIGHT Kg. / m
CABLE TRAY WIDTH - 450mm	1.5	13.40	0.240	58	13.90	120	28.80	180	43.20	245	50.80
	2.5	14.40	0.300	48	14.40	90	27.00	155	46.50	210	63.00
	4.0	16.60	0.420	23	9.60	77	32.30	118	50.00	160	67.20
	6.0	17.80	0.525	21	11.00	66	34.60	102	53.60	136	71.40
	10.0	19.70	0.745	20	15.00	43	32.00	83	61.80	112	83.40
	16.0	23.10	1.050	16	16.80	35	36.80	54	56.70	80	84.00
	25.0	27.20	1.545	-	-	18	27.80	42	64.90	56	86.60
	35.0	25.10	1.690	-	-	16	27.00	32	54.00	44	74.40
	50.0	29.20	2.275	-	-	14	31.90	25	56.90	38	86.50
	70.0	32.90	3.140	-	-	12	37.70	22	69.00	25	78.50
	95.0	37.60	4.280	-	-	10	42.80	11	47.00	20	85.60
	120.0	39.90	5.250	-	-	9	47.25	10	52.50	18	94.50
	150.0	44.50	6.485	-	-	5	32.50	9	58.40	16	103.80
	185.0	50.30	8.095	-	-	-	-	8	64.80	12	97.20
	240.0	56.50	10.52	-	-	-	-	6	63.20	10	105.20
	300.0	62.60	13.11	-	-	-	-	5	65.50	5	65.20
CABLE TRAY WIDTH - 500mm	1.5	13.40	0.240	67	16.00	135	32.50	206	49.50	275	66.00
	2.5	14.40	0.300	55	16.50	100	30.00	175	52.50	236	70.80
	4.0	16.60	0.420	27	11.40	88	37.00	134	56.30	180	75.60
	6.0	17.80	0.525	26	13.70	76	40.00	116	61.00	155	81.40
	10.0	19.70	0.745	25	18.70	51	38.00	95	70.70	127	94.80
	16.0	23.10	1.050	21	22.00	42	44.00	63	66.00	92	96.60
	25.0	27.20	1.545	-	-	22	34.00	48	74.00	65	100.0
	35.0	25.10	1.690	-	-	21	35.50	38	64.00	52	88.00
	50.0	29.20	2.275	-	-	18	41.00	30	68.30	44	100.00
	70.0	32.90	3.140	-	-	16	50.00	27	85.00	30	94.20
	95.0	37.60	4.280	-	-	13	55.70	14	60.00	24	103.0
	120.0	39.90	5.250	-	-	10	52.50	13	68.30	23	121.0
	150.0	44.50	6.485	-	-	7	45.30	12	77.80	20	130.0
	185.0	50.30	8.095	-	-	-	-	10	81.00	11	89.00
	240.0	56.50	10.52	-	-	-	-	8	84.00	8	84.20
	300.0	62.60	13.11	-	-	-	-	7	92.00	7	92.00
CABLE TRAY WIDTH - 550mm	1.5	13.40	0.240	72	17.30	145	34.80	224	53.80	285	68.40
	2.5	14.40	0.300	57	17.10	104	31.20	185	55.50	245	73.50
	4.0	16.60	0.420	28	11.80	90	37.80	138	58.00	185	77.70
	6.0	17.80	0.525	27	14.20	80	42.00	120	63.00	160	84.00
	10.0	19.70	0.745	26	19.40	53	39.50	97	72.30	130	96.90
	16.0	23.10	1.050	22	23.10	44	46.20	65	68.30	95	99.80
	25.0	27.20	1.545	-	-	23	35.50	50	77.30	67	103.5
	35.0	25.10	1.690	-	-	22	37.20	39	85.90	54	91.30
	50.0	29.20	2.275	-	-	19	43.30	31	70.50	45	102.3
	70.0	32.90	3.140	-	-	17	53.40	28	88.00	31	97.40
	95.0	37.60	4.280	-	-	14	60.00	15	64.20	25	107.0
	120.0	39.90	5.250	-	-	12	63.00	14	73.50	24	126.0
	150.0	44.50	6.485	-	-	7	45.30	13	84.30	21	136.1
	185.0	50.30	8.095	-	-	-	-	11	89.00	12	97.20
	240.0	56.50	10.52	-	-	-	-	8	84.00	8	84.20
	300.0	62.60	13.11	-	-	-	-	7	92.00	7	92.00

CABLE TRAY LOAD CAPACITY



CABLE TRAY WIDTH	CABLE DATA				CABLE TRAY CAPACITY										
	x SECTION Sq. MM	OVER ALL DIA MM	WEIGHT Kg. / M	HEIGHT - 25 mm	NO OF CABLES	WEIGHT Kg. / M	HEIGHT - 50 mm	NO OF CABLES	WEIGHT Kg. / M	HEIGHT - 75 mm	NO OF CABLES	WEIGHT Kg. / M	HEIGHT - 90 mm	NO OF CABLES	WEIGHT Kg. / M
CABLE TRAY WIDTH - 600 mm	1.5	13.40	0.240	72	17.30	155	37.20	242	58.00	320	76.80				
	2.5	14.40	0.300	52	15.60	115	34.50	206	61.80	266	79.80				
	4.0	16.60	0.420	30	12.60	90	37.80	148	62.20	202	84.80				
	6.0	17.80	0.525	26	13.60	82	43.00	130	68.30	176	92.40				
	10.0	19.70	0.745	22	16.40	50	37.30	102	76.00	142	105.80				
	16.0	23.10	1.050	18	19.00	42	44.10	66	69.30	100	105.00				
	25.0	27.20	1.545	-	-	22	34.00	50	77.30	72	111.30				
	35.0	25.10	1.690	-	-	20	33.80	40	67.60	56	94.70				
	50.0	29.20	2.275	-	-	18	41.00	36	82.00	50	113.80				
	70.0	32.90	3.140	-	-	14	44.00	28	88.00	30	94.20				
	95.0	37.60	4.280	-	-	12	51.40	14	60.00	25	107.00				
	120.0	39.90	5.250	-	-	7	36.70	10	25.50	22	115.50				
	150.0	44.50	6.485	-	-	5	32.50	9	58.40	14	90.80				
	185.0	50.30	8.095	-	-	-	-	10	81.00	10	81.00				
	240.0	56.50	10.52	-	-	-	-	7	73.60	7	73.60				
	300.0	62.60	13.11	-	-	-	-	5	65.50	5	65.50				
CABLE TRAY WIDTH - 650 mm	1.5	13.40	0.240	78	18.70	167	40.00	260	62.40	340	81.60				
	2.5	14.40	0.300	56	16.80	124	37.20	220	66.00	280	84.00				
	4.0	16.60	0.420	32	13.40	97	40.70	155	65.10	210	88.20				
	6.0	17.80	0.525	28	14.70	88	46.20	135	70.80	185	97.10				
	10.0	19.70	0.745	24	17.90	54	40.30	106	79.00	150	111.80				
	16.0	23.10	1.050	19	20.00	45	47.30	70	73.50	110	115.5				
	25.0	27.20	1.545	-	-	23	35.50	52	80.40	75	115.80				
	35.0	25.10	1.690	-	-	21	35.50	42	71.00	58	98.00				
	50.0	29.20	2.275	-	-	19	43.20	37	84.10	52	118.30				
	70.0	32.90	3.140	-	-	15	47.10	30	94.20	31	97.30				
	95.0	37.60	4.280	-	-	13	55.60	15	64.20	26	111.30				
	120.0	39.90	5.250	-	-	7	36.70	10	25.50	23	120.00				
	150.0	44.50	6.485	-	-	5	32.50	9	58.40	15	97.20				
	185.0	50.30	8.095	-	-	-	-	10	81.00	10	81.00				
	240.0	56.50	10.52	-	-	-	-	7	73.60	7	73.60				
	300.0	62.60	13.11	-	-	-	-	5	65.50	5	65.50				
CABLE TRAY WIDTH - 700 mm	1.5	13.40	0.240	85	20.40	182	43.70	286	68.70	375	90.00				
	2.5	14.40	0.300	62	18.60	132	39.60	240	72.00	315	94.50				
	4.0	16.60	0.420	36	15.20	106	44.50	175	73.50	235	98.70				
	6.0	17.80	0.525	32	16.80	96	50.40	152	80.00	206	108.20				
	10.0	19.70	0.745	26	19.40	60	44.70	115	85.60	170	126.60				
	16.0	23.10	1.050	24	25.20	50	52.50	80	84.00	115	120.80				
	25.0	27.20	1.545	-	-	26	40.20	60	92.70	82	126.70				
	35.0	25.10	1.690	-	-	22	37.20	46	77.80	64	108.20				
	50.0	29.20	2.275	-	-	20	45.50	40	91.00	60	136.50				
	70.0	32.90	3.140	-	-	16	50.20	30	94.20	32	100.50				
	95.0	37.60	4.280	-	-	12	51.40	16	68.50	27	115.60				
	120.0	39.90	5.250	-	-	7	36.80	12	63.00	25	131.30				
	150.0	44.50	6.485	-	-	5	32.50	11	71.30	18	116.70				
	185.0	50.30	8.095	-	-	-	-	12	107.40	12	107.40				
	240.0	56.50	10.52	-	-	-	-	9	94.70	9	94.70				
	300.0	62.60	13.110	-	-	-	-	7	91.70	7	91.70				

CABLE TRAY LOAD CAPACITY



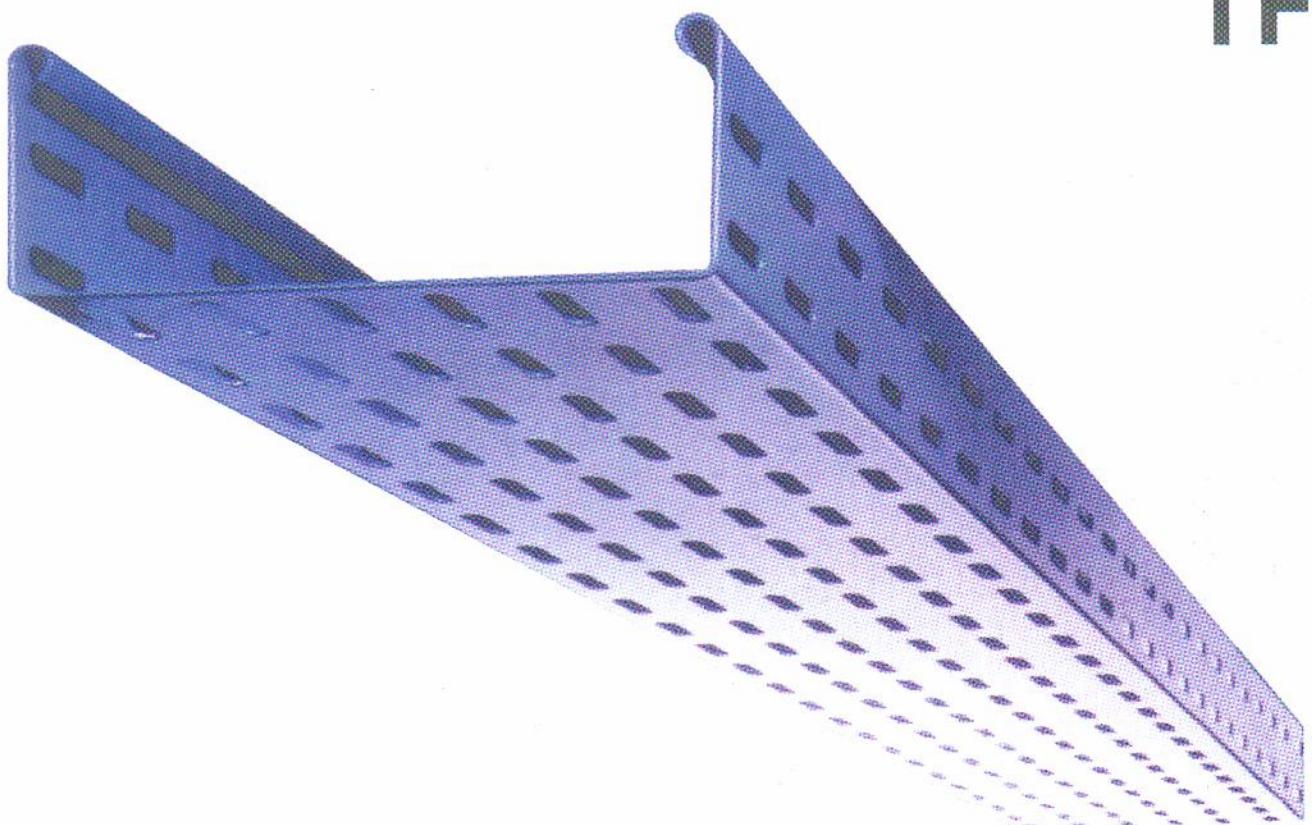
CABLE TRAY WIDTH	CABLE DATA			CABLE TRAY CAPACITY						
	x SECTION Sq. mm.	OVER ALL Dia. mm.	WEIGHT Kg. / m.	HEIGHT - 25 mm		HEIGHT - 50 mm		HEIGHT - 75 mm		HEIGHT - 100 mm
CABLE TRAY WIDTH - 750mm	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.
1.5	13.40	0.240	95	22.80	190	45.60	300	72.00	400	96.00
2.5	14.40	0.300	75	22.50	140	42.00	250	75.00	345	103.50
4.0	16.60	0.420	40	16.80	130	54.60	190	79.80	260	109.20
6.0	17.80	0.525	37	19.50	110	57.80	170	89.30	230	120.80
10.0	19.70	0.745	30	22.40	68	50.70	135	100.50	188	140.00
16.0	23.10	1.050	26	27.30	55	57.80	85	89.30	130	136.50
25.0	27.20	1.545	-	-	30	46.40	65	100.50	90	139.00
35.0	25.10	1.690	-	-	26	44.00	50	84.50	70	118.30
50.0	29.20	2.275	-	-	24	54.60	43	97.80	62	141.00
70.0	32.90	3.140	-	-	20	62.80	32	100.50	38	119.30
95.0	37.60	4.280	-	-	16	68.50	18	77.00	32	137.00
120.0	39.90	5.250	-	-	13	68.30	15	78.80	28	147.00
150.0	44.50	6.485	-	-	10	64.90	13	84.30	23	149.20
185.0	50.30	8.095	-	-	-	-	12	97.20	13	105.30
240.0	56.50	10.52	-	-	-	-	10	105.20	11	115.70
300.0	62.60	13.100	-	-	-	-	9	118.00	9	118.00
CABLE TRAY WIDTH - 800mm	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.
1.5	13.40	0.240	100	24.00	200	48.00	330	79.20	430	103.20
2.5	14.40	0.300	80	24.00	150	4500	280	84.00	365	109.50
4.0	16.60	0.420	45	19.00	125	25.50	202	84.90	270	113.40
6.0	17.80	0.525	40	21.00	115	60.40	180	94.50	235	123.40
10.0	19.70	0.745	35	26.00	70	52.20	140	104.30	194	144.50
16.0	23.10	1.050	28	29.40	60	63.00	90	94.50	135	141.80
25.0	27.20	1.545	-	-	35	54.00	70	108.20	95	146.80
35.0	25.10	1.690	-	-	30	50.70	55	93.00	74	125.00
50.0	29.20	2.275	-	-	26	59.20	50	113.80	66	150.20
70.0	32.90	3.140	-	-	22	69.00	35	110.00	40	125.60
95.0	37.60	4.280	-	-	18	77.00	20	85.60	35	150.00
120.0	39.90	5.250	-	-	15	78.80	16	84.00	30	157.50
150.0	44.50	6.485	-	-	9	58.40	14	90.80	24	155.60
185.0	50.30	8.095	-	-	-	-	14	113.40	14	113.40
240.0	56.50	10.52	-	-	-	-	11	115.80	11	115.80
300.0	62.60	13.11	-	-	-	-	9	118.00	9	118.00
CABLE TRAY WIDTH - 850mm	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.
1.5	13.40	0.240	110	26.40	225	54.00	340	81.60	440	105.60
2.5	14.40	0.300	90	27.00	170	51.00	285	85.50	385	115.50
4.0	16.60	0.420	46	19.40	145	61.00	215	90.30	285	119.70
6.0	17.80	0.525	42	22.00	125	65.60	185	97.10	250	131.20
10.0	19.70	0.745	40	29.80	82	61.00	150	111.80	200	149.00
16.0	23.10	1.050	33	34.60	70	73.50	100	105.00	145	152.30
25.0	27.20	1.545	-	-	34	52.50	76	117.40	100	154.50
35.0	25.10	1.690	-	-	35	59.20	60	101.40	80	135.20
50.0	29.20	2.275	-	-	30	68.30	51	116.00	70	159.30
70.0	32.90	3.140	-	-	27	84.80	40	125.60	45	141.30
95.0	37.60	4.280	-	-	22	94.20	22	94.20	37	158.40
120.0	39.90	5.250	-	-	18	94.50	20	105.00	34	178.50
150.0	44.50	6.485	-	-	11	71.40	16	103.80	28	181.60
185.0	50.30	8.095	-	-	-	-	15	121.50	18	145.70
240.0	56.50	10.52	-	-	-	-	12	126.50	12	126.50
300.0	62.60	13.110	-	-	-	-	10	131.00	11	144.10

CABLE TRAY LOAD CAPACITY



CABLE TRAY WIDTH	CABLE DATA			CABLE TRAY CAPACITY					
	x SECTION Sq. mm.	OVER ALL Dia. mm.	WEIGHT Kg. / m.	HEIGHT - 25 mm		HEIGHT - 50 mm		HEIGHT - 75 mm	
				No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.	No. OF CABLES	WEIGHT Kg. / m.
CABLE TRAY WIDTH - 900mm	1.5	13.40	0.240	110	26.40	233	55.90	350	84.00
	2.5	14.40	0.300	90	27.00	170	51.00	300	90.00
	4.0	16.60	0.420	40	16.80	150	63.00	230	96.60
	6.0	17.80	0.525	38	20.00	130	68.30	195	102.30
	10.0	19.70	0.745	37	27.50	82	61.00	160	119.20
	16.0	23.10	1.050	32	33.60	70	73.50	103	108.20
	25.0	27.20	1.545	-	-	32	49.50	75	115.90
	35.0	25.10	1.690	-	-	30	50.70	64	108.20
	50.0	29.20	2.275	-	-	30	61.50	48	109.20
	70.0	32.90	3.140	-	-	22	69.00	40	125.60
	95.0	37.60	4.280	-	-	18	77.00	25	107.00
	120.0	39.90	5.250	-	-	16	84.00	23	120.80
	150.0	44.50	6.485	-	-	11	71.30	21	136.20
	185.0	50.30	8.095	-	-	-	-	18	145.70
	240.0	56.50	10.52	-	-	-	-	14	147.30
	300.0	62.60	13.100	-	-	-	-	12	157.20
CABLE TRAY WIDTH - 950mm	1.5	13.40	0.240	125	30.00	255	61.20	385	92.40
	2.5	14.40	0.300	100	30.00	190	57.00	320	96.00
	4.0	16.60	0.420	50	21.00	165	69.30	245	102.90
	6.0	17.80	0.525	49	21.00	140	73.50	215	112.90
	10.0	19.70	0.745	47	35.00	94	70.00	174	129.60
	16.0	23.10	1.050	38	40.00	75	78.80	115	120.80
	25.0	27.20	1.545	-	-	41	63.40	90	139.00
	35.0	25.10	1.690	-	-	39	65.90	64	108.20
	50.0	29.20	2.275	-	-	34	77.40	55	125.20
	70.0	32.90	3.140	-	-	29	91.00	50	157.00
	95.0	37.60	4.280	-	-	23	98.50	24	102.80
	120.0	39.90	5.250	-	-	20	105.00	23	120.80
	150.0	44.50	6.485	-	-	11	71.40	19	123.20
	185.0	50.30	8.095	-	-	-	-	17	137.60
	240.0	56.50	10.52	-	-	-	-	13	136.80
	300.0	62.60	13.11	-	-	-	-	11	144.10
CABLE TRAY WIDTH - 1000mm	1.5	13.40	0.240	130	31.20	226	63.80	400	96.00
	2.5	14.40	0.300	106	31.80	195	58.50	325	97.50
	4.0	16.60	0.420	50	21.00	174	73.00	260	109.20
	6.0	17.80	0.525	48	25.20	150	78.80	220	115.50
	10.0	19.70	0.745	46	34.30	100	74.50	175	130.40
	16.0	23.10	1.050	40	42.00	80	84.00	120	126.00
	25.0	27.20	1.545	-	-	40	61.80	84	129.80
	35.0	25.10	1.690	-	-	38	64.30	70	118.30
	50.0	29.20	2.275	-	-	35	79.60	55	125.20
	70.0	32.90	3.140	-	-	30	94.20	50	157.00
	95.0	37.60	4.280	-	-	25	107.00	25	107.00
	120.0	39.90	5.250	-	-	21	110.30	22	115.50
	150.0	44.50	6.485	-	-	12	77.90	20	129.70
	185.0	50.30	8.095	-	-	-	-	18	145.70
	240.0	56.50	10.52	-	-	-	-	14	147.30
	300.0	62.60	13.110	-	-	-	-	12	157.20

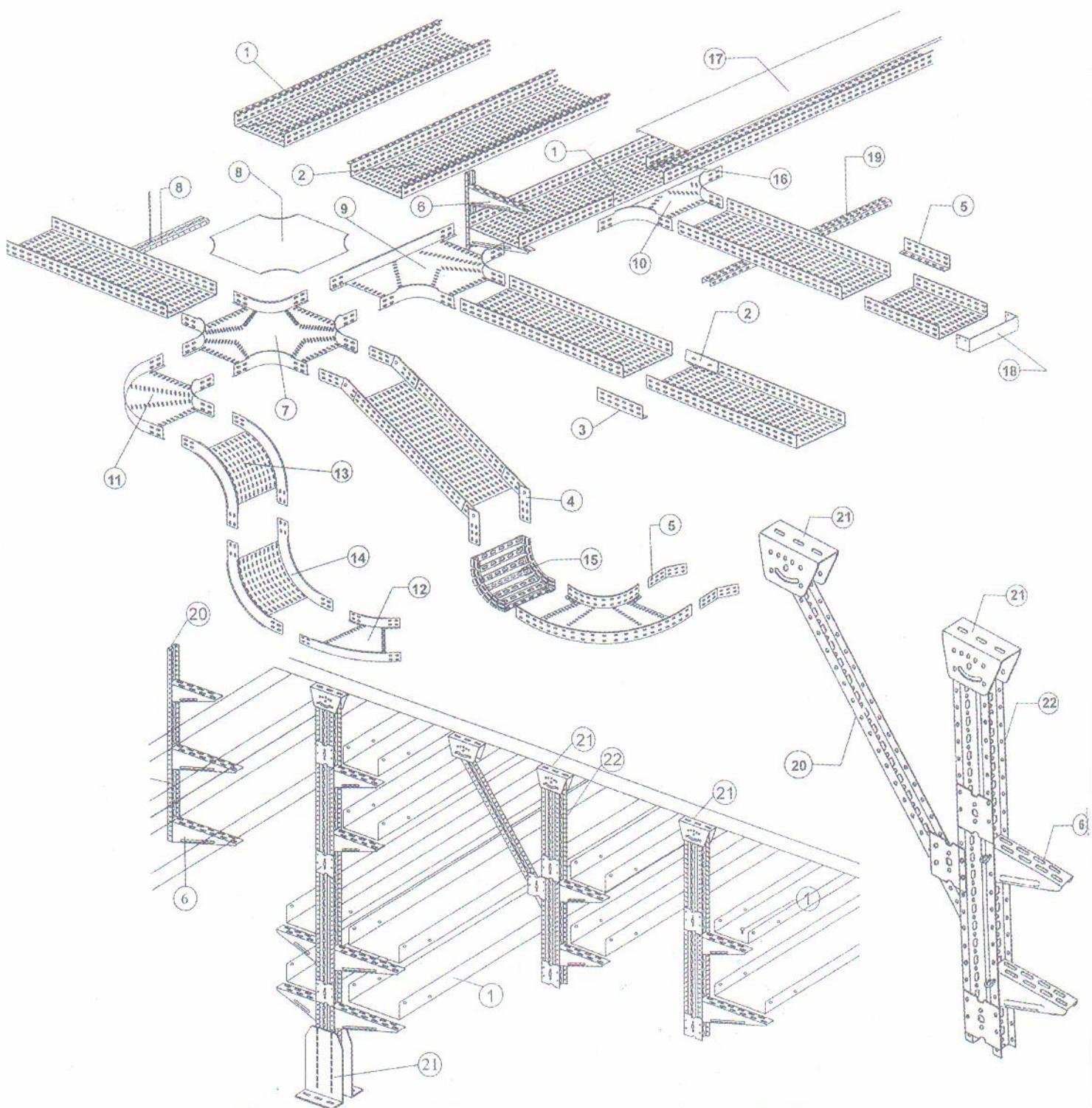
**CABLE TRAY SYSTEM
FRENCH STANDARD**



FRENCH STANDARD

PRODUCT RANGE

CABLE TRAY SYSTEM FRENCH STANDARD



1 - TYPE-TF CABLE TRAY
 2 - CLIP-ON-COUPLER
 3 - CORNERED SPLICE PLATE
 4 - HINGED SPLICE PLATE
 5 - BENDABLE SPLICE PLATE
 6 - CONSOLES BRACKETS
 7 - CROSS
 8 - COVERS FOR CONNECTING UNITS

9 - Tee
 10 - TAKE OFF
 11 - 90° BEND
 12 - 135° BEND
 13 - 90° OUTSIDE BEND
 14 - 90° INSIDE BEND
 15 - SIMPLIFIED CONNECTING UNITS
 16 - DIVIDER

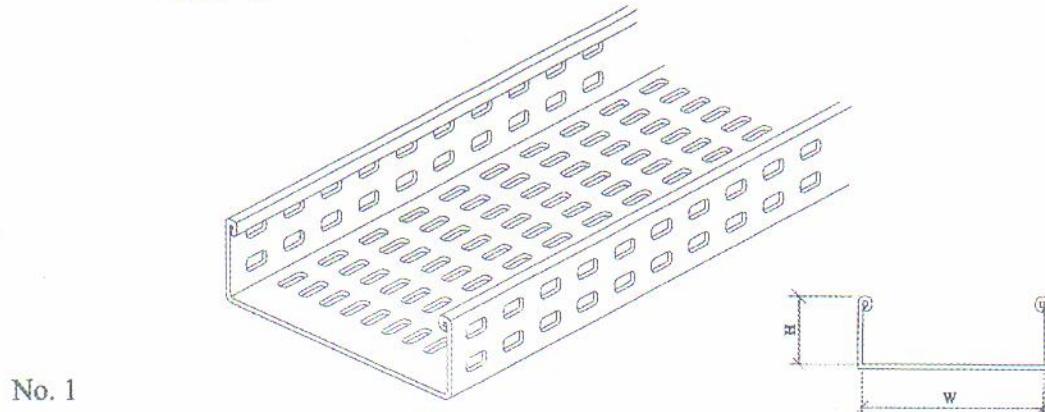
17 - COVER
 18 - END PLATE
 19 - PERFORATED PROFILES
 20 - MOUNTING CHANNEL
 21 - DOUBLE GOUSSET
 22 - DOUBLE CHANNEL

CABLE TRAY ORDERING GUIDE

FRENCH STANDARD



TYPE-TF

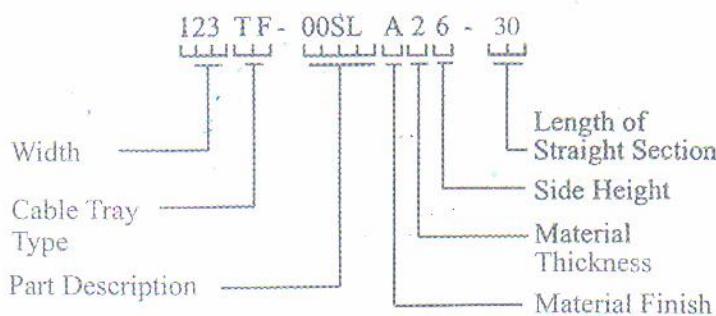


ORDERING CHARTS FRENCH STANDARD

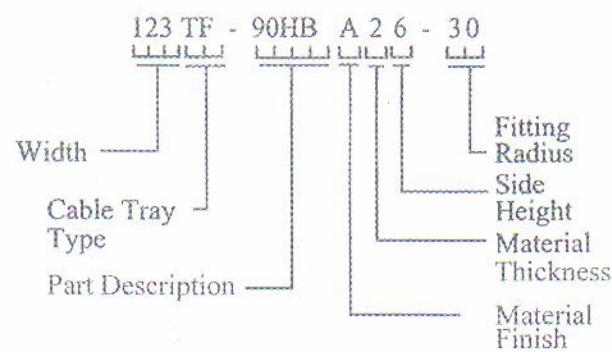
WIDTH (mm)	CABLE TRAY TYPE	PART DESCRIPTION	FRENCH STD.	MATERIAL Finish	THICKNESS	SIDE HEIGHT	LENGTH/RADIUS
123	TF Inside REturn Flange	00SL - Straight Length	A	A Mill Galvanized steel sheet	9 0.9 mm		STRAIGHT SECTION
		90HB - 90 Deg. Horizontal Bend	CT 1		1 1.00mm	5 50 mm	30 3.00 meters
		45HB - 45 Deg. Horizontal Bend	CT 2			6 60mm	
		90IR - 90 Deg. Inside Riser	CT 3		2 1.20mm		
		45IR - 45 Deg. Inside Riser	CT 4			7 75 mm	FITTING RADIUS
		90OR - 90 Deg. Outside Riser	CT 5		3 1.50mm		30 300mm
		45OR - 45 Deg. Outside Riser	CT 6	B Hot Dip Galvanized (H.D.G.A.F.)			60 600mm
		00TH - Horizontal Tee	G			10 100mm	90 900mm
		00TU - Horizontal Unequal Tee					
		00CH - Horizontal Cross					
220		00UC - Horizontal Unequal Cross	CTG1				
		0RHR - Right Hand Reducer	CTG2				
		0LHR - Left Hand Reducer	CTG3				
		00SR - Straight Reducer	CTG4	C Aluminum alloy			
			CTG5				
			CTG6				
316			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
436			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
495			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
508			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
600			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
600			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL
			LLL	LL	L	LL	LLL

PART NUMBERING SYSTEM

STRAIGHT SECTION



FITTING SECTION

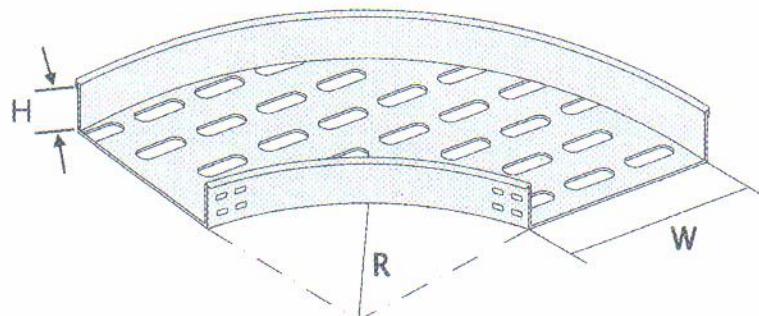


CABLE TRAY SYSTEM - FRENCH STANDARD



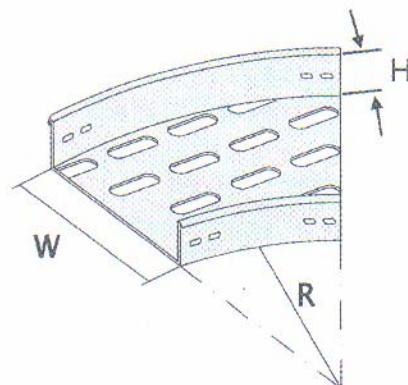
90° HORIZONTAL ELBOW

PART DESCRIPTION: 90HB



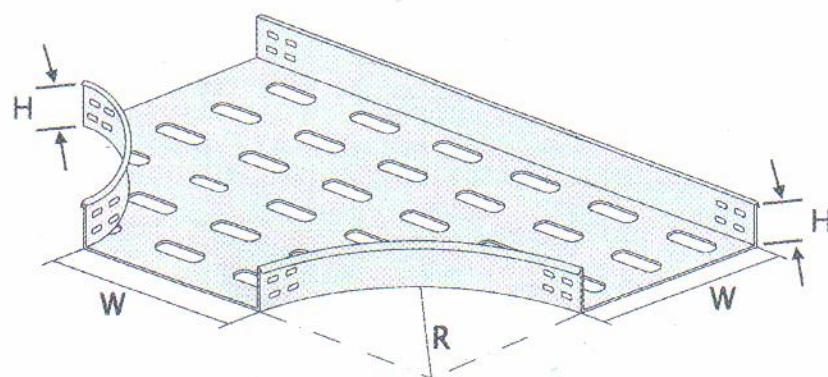
45° HORIZONTAL ELBOW

PART DESCRIPTION: 45HB



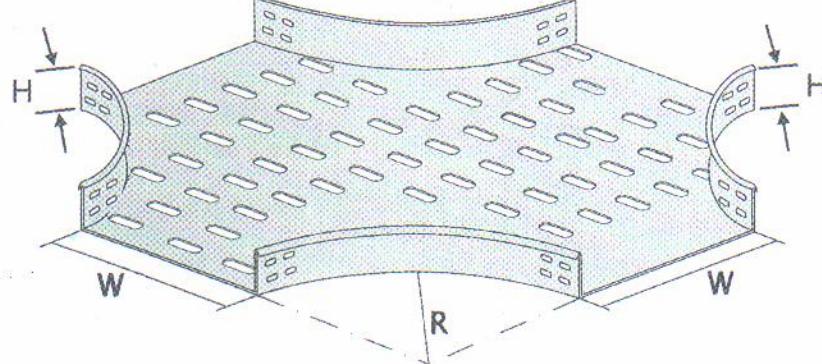
HORIZONTAL Tee

PART DESCRIPTION: 00TH



HORIZONTAL CROSS

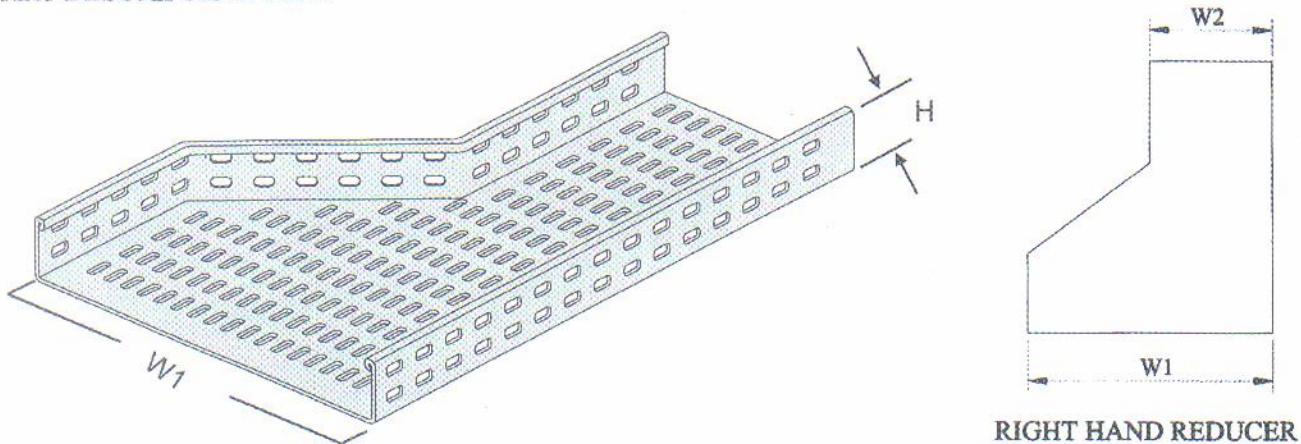
PART DESCRIPTION: 00CH



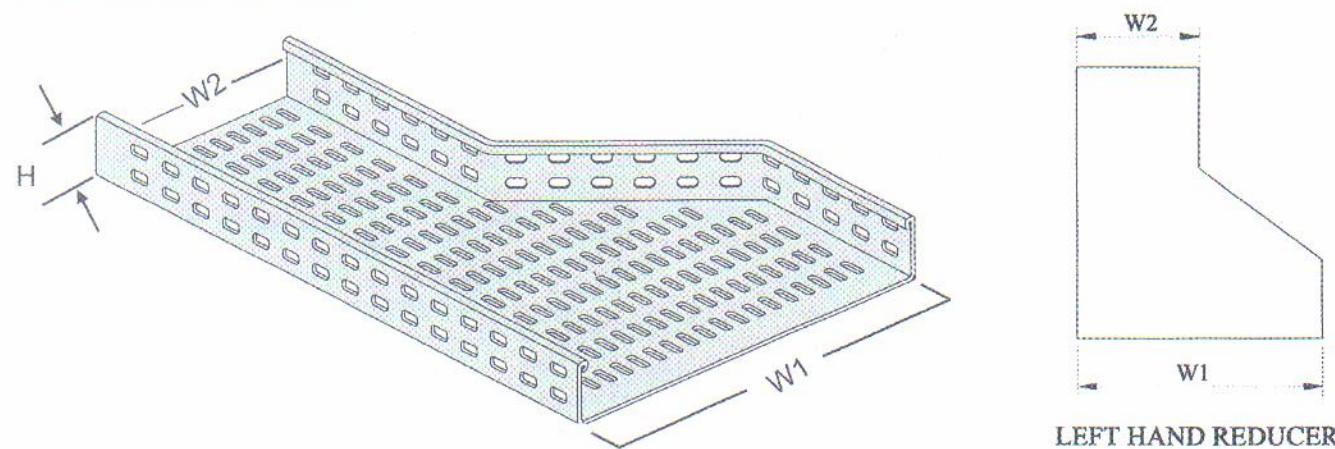
CABLE TRAY FITTINGS - FRENCH STANDARD



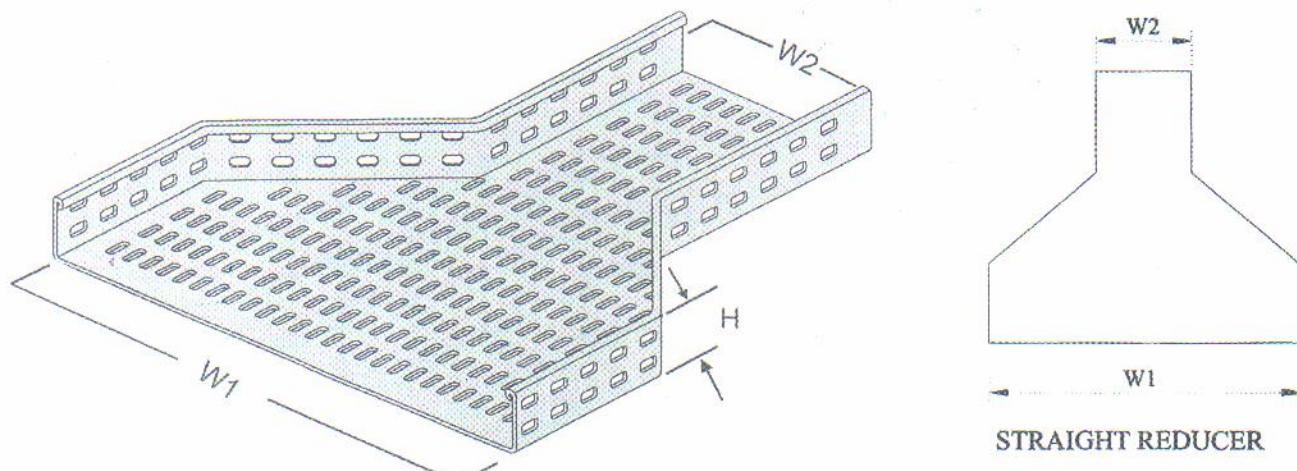
RIGHT HAND REDUCER
PART DESCRIPTION: 0RHR



LEFT HAND REDUCER
PART DESCRIPTION: 0LHR



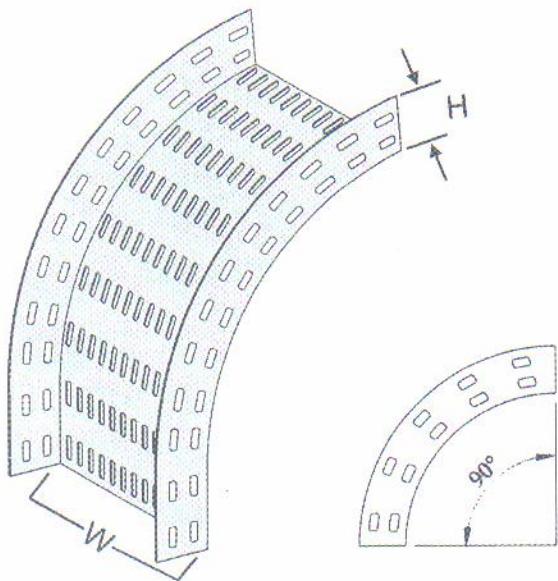
STRAIGHT REDUCER
PART DESCRIPTION: 00SR



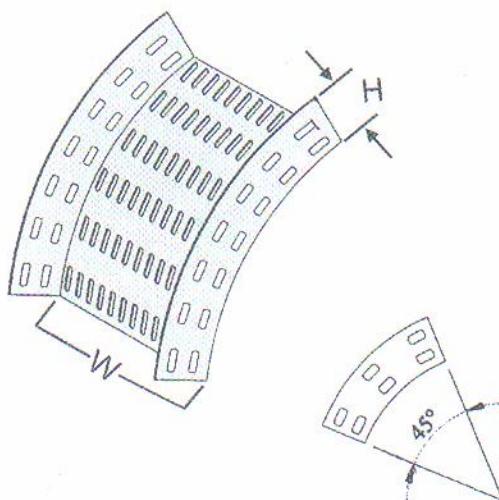
CABLE TRAY FITTINGS - FRENCH STANDARD



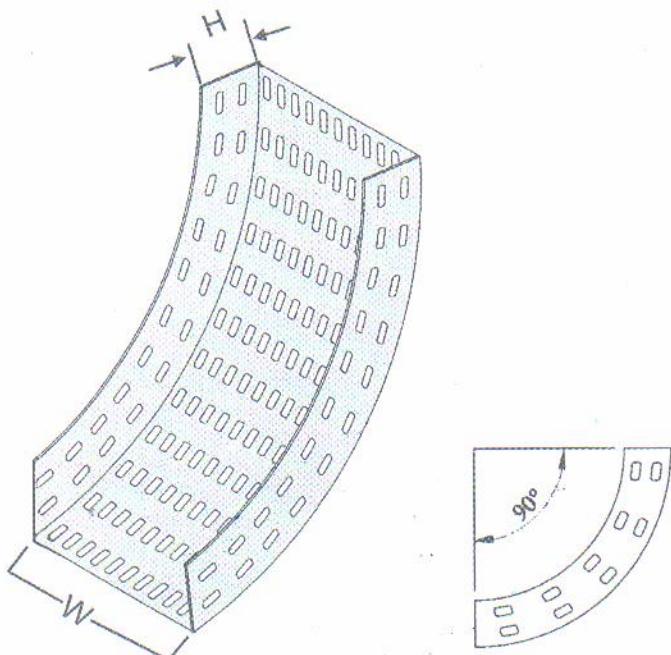
90° OUTSIDE RISER
PART DESCRIPTION: 90OR



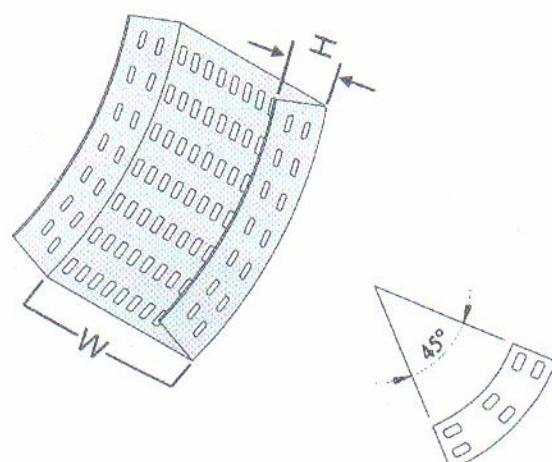
45° OUTSIDE RISER
PART DESCRIPTION: 45OR



90° INSIDE RISER
PART DESCRIPTION: 90IR



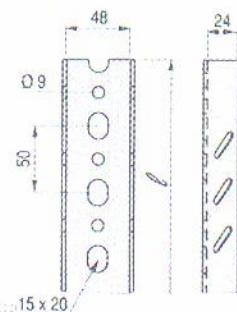
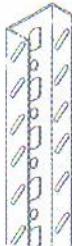
45° INSIDE RISER
PART DESCRIPTION: 45IR



SUPPORT SYSTEM FRENCH STANDARD

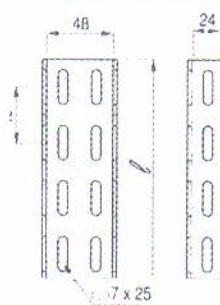
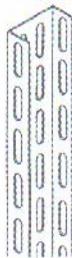


MOUNTING CHANNEL



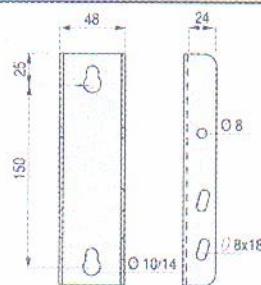
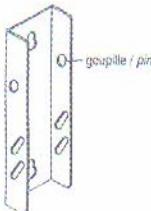
Material	Length (m)	Thickness (mm)	Code	Weight* Kg / ml
A	2 3	2	091	1.10
G	2 3	2.5	092	1.39
C	2 3	3		
D	2 3		093	1.66

MOUNTING CHANNEL



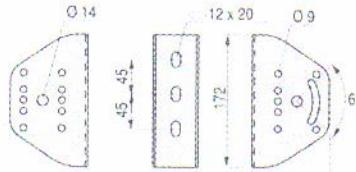
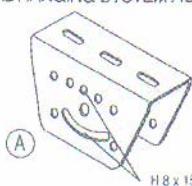
Material	Length (m)	Thickness (mm)	Code	Weight* Kg / ml
A	2 3	2	081	1.00
G	2 3	2.5	082	1.30
C	2 3	3		
D	2 3		083	1.55

WALL PLATE

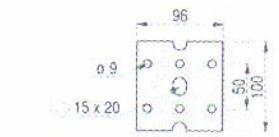
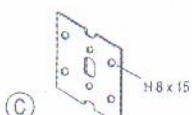


Material	Length (m)	Thickness (mm)	Code	Weight Kg / ml
A	2	2		
G	3	2.5		
C	2	3	071	0.27
D	3	3		

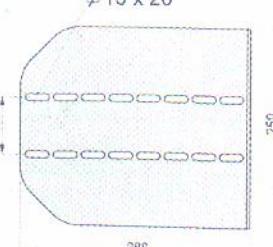
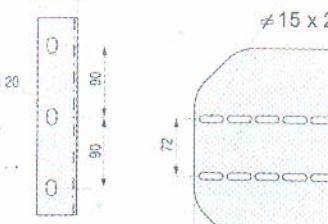
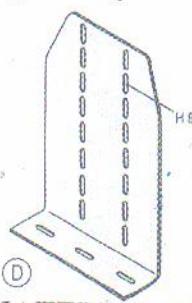
VERTICAL HANGING SYSTEM ACCESSORIES



Material	Type	Code	Weight Kg / P
A	A	060	0.44



Material	Type	Code	Weight Kg / P
G	C	070	0.13
C	D	080	1.08
D			



MATERIAL & FINISHES

Channels / Brackets, Accessories – Wall Plate

A : Galvanized Steel Sheet

C : Aluminum Alloy

G : Hot Dip Galvanized After Fabrication

D : Coatings or Other materials

LOADING GRAPH FOR C/T AND S/S



PARTICULARS :

* A complete all-purpose use of perforated sections.

Performance of the Support System and the maximum allowable deflection under the load

This helpful formula will assist you in determining the moment with respect to the total load per support.

L_u = cable weight per meter x distance between supports

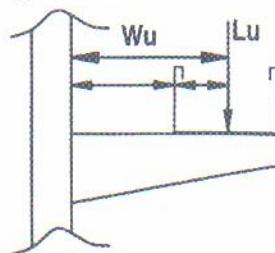
$$(N) \quad (N/m) \quad (mt)$$

* Evaluate the Moment

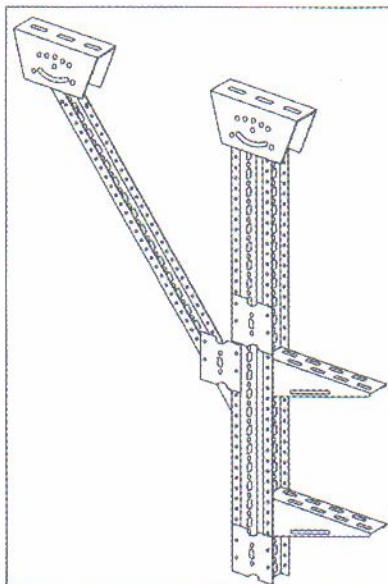
$$M = \sum_{i=1}^n w_u \times L_u$$

$$(N.m) \quad (m) \quad (N)$$

$w_u = 1/2$ width of cable trays + overlength

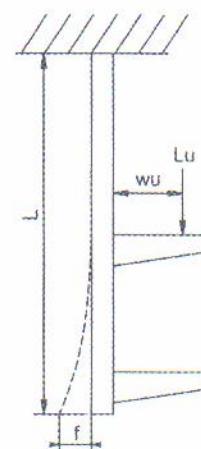
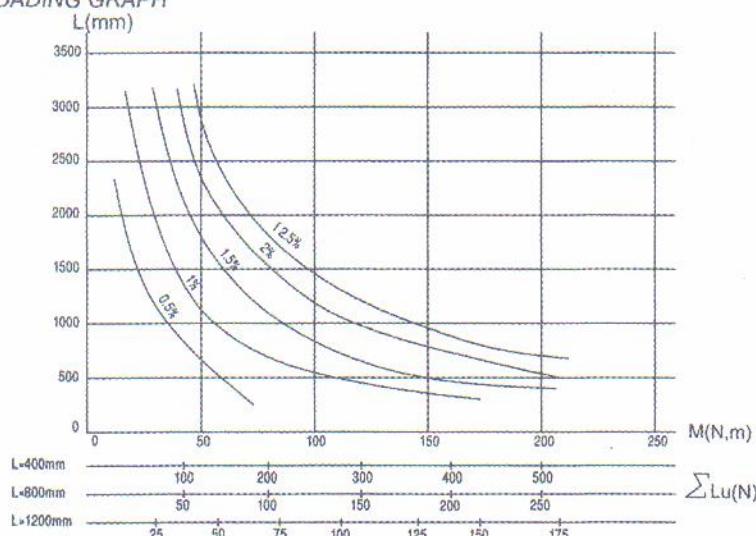


* See loading graphs for deflection f according to length L of the hanging system. In practice the maximum allowable limit will be 1.5% of length L to take into account the possible over loads.

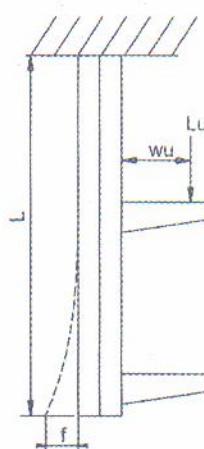
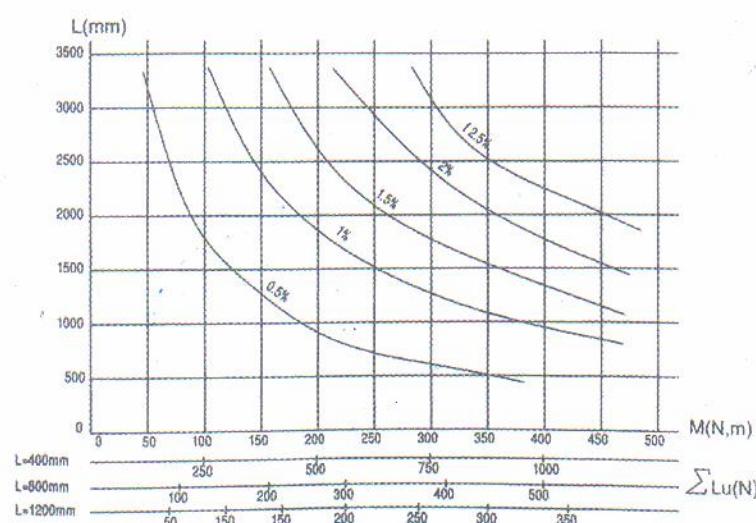


SINGLE HANGING SYSTEM
(thickness 2.0mm)

LOADING GRAPH



DOUBLE HANGING
SYSTEM
(thickness 2.0mm)



SUPPORT SYSTEM - FRENCH STANDARD



CONSOLES BRACKETS

Material	Type	Code	Mass Weight Kg/ml
A	75 x 123	CB 15	0.10
	150	CB 150	0.12
G	225	CB 225	0.25
	350	CB 350	0.46
C	475	CB 475	1.00
	550	CB 550	1.30
D	640	CB 640	1.90

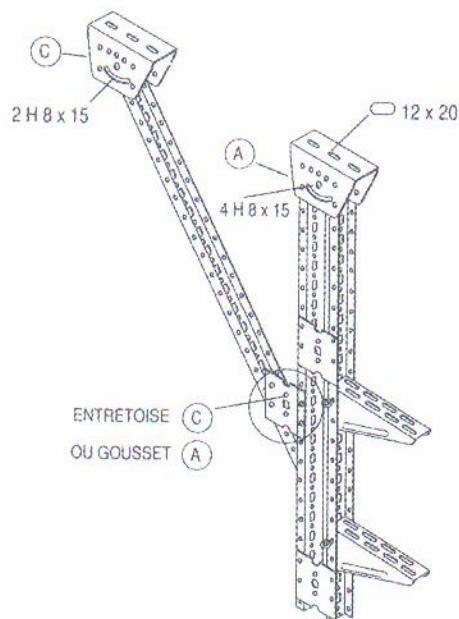
Technical drawings of console brackets:

- CB-75-123-150:** A bracket with a vertical leg of 55 mm, a horizontal arm of 150 mm, and a flange width of 47 mm. It is made of 0.8 x 18 mm sheet metal.
- CB-225:** A bracket with a vertical leg of 90 mm, a horizontal arm of 225 mm, and a flange width of 47 mm. It is made of 0.7 x 30 mm sheet metal.
- CB-350:** A bracket with a vertical leg of 90 mm, a horizontal arm of 350 mm, and a flange width of 47 mm. It is made of 0.7 x 30 mm sheet metal.
- CB-475:** A bracket with a vertical leg of 90 mm, a horizontal arm of 475 mm, and a flange width of 47 mm. It is made of 0.7 x 30 mm sheet metal.
- CB-550:** A bracket with a vertical leg of 130 mm, a horizontal arm of 550 mm, and a flange width of 47 mm. It is made of 0.7 x 30 mm sheet metal.
- CB-640:** A bracket with a vertical leg of 130 mm, a horizontal arm of 640 mm, and a flange width of 47 mm. It is made of 0.7 x 30 mm sheet metal.

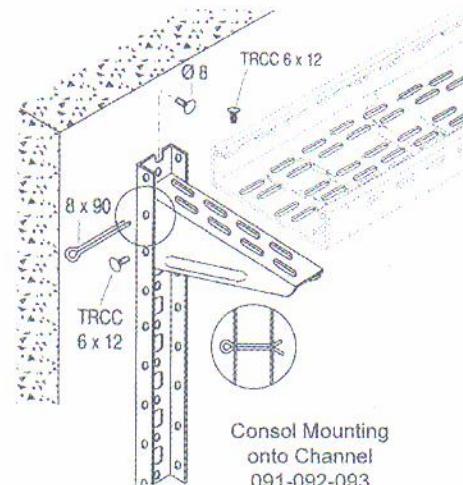
MATERIAL & FINISHES CONSOLE BRACKETS

- A : Galvanized Steel Sheet
- G : Hot Dip Galvanized After Fabrication
- C : Aluminum Alloy
- D : Coatings or Other materials

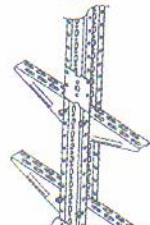
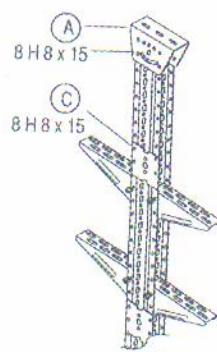
SUPPORT SYSTEM - FRENCH STANDARD



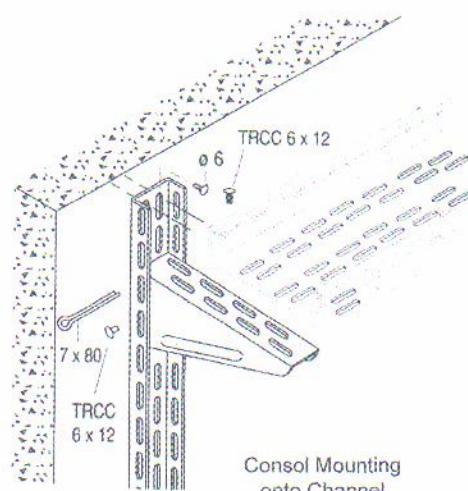
Double hanging system with one-way brace,



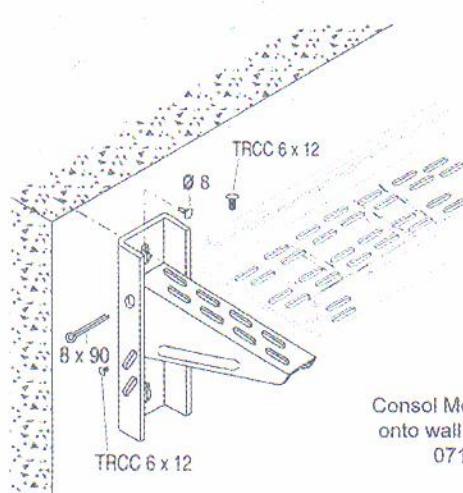
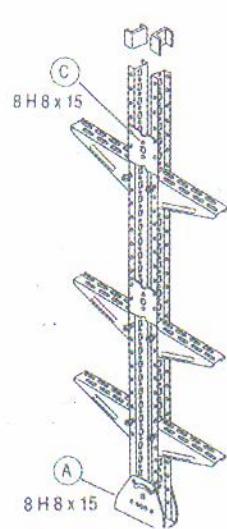
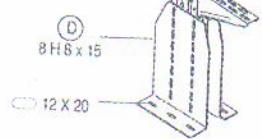
*Consol Mounting onto Channel
091-092-093*



Assembly of floor to ceiling column,



*Consol Mounting onto Channel
081-082-083*



*Consol Mounting onto wall plates
071*

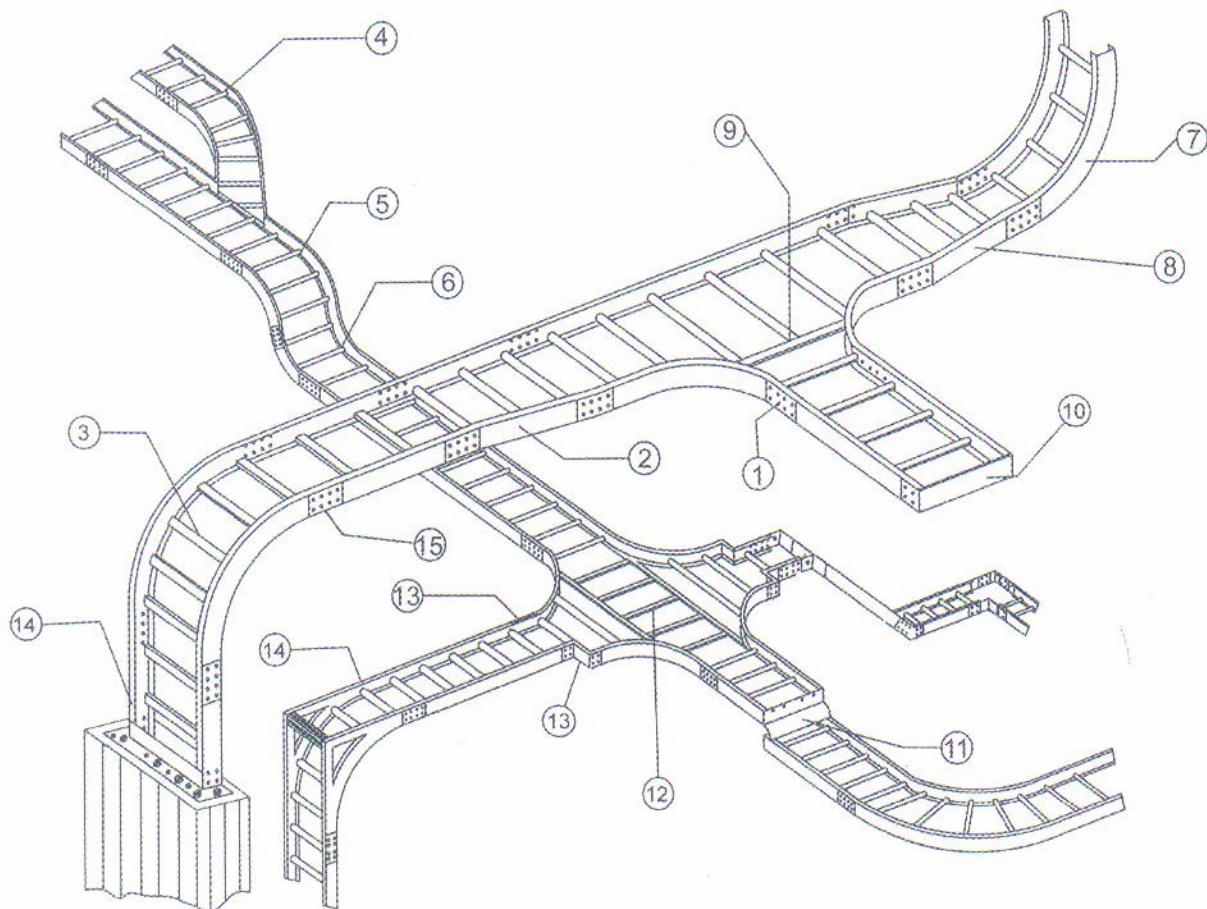
AL-FAREED CABLE LADDER SYSTEM



LADDERS

PRODUCT RANGE

CABLE LADDER SYSTEM



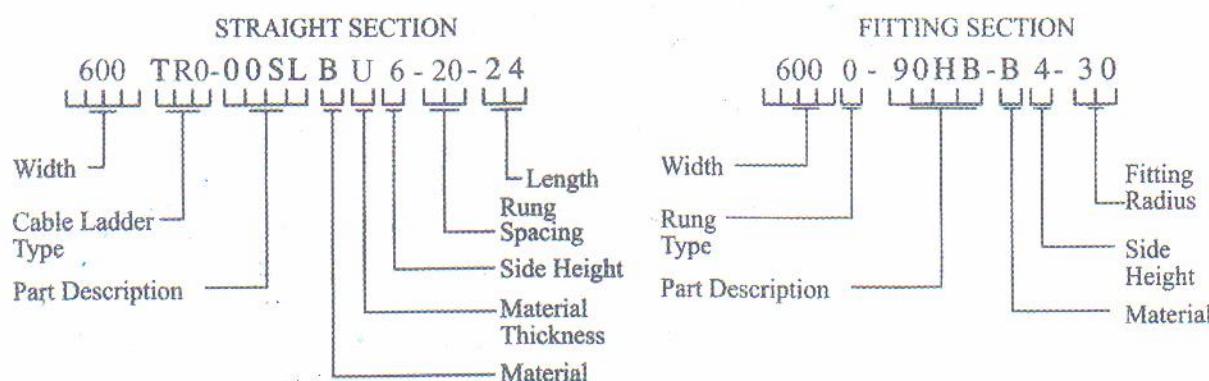
1 - JOINT CONNECTOR
2 - RIGHT HAND OFFSET REDUCER
3 - OUTSIDE 90° VERTICAL ELBOW
4 - 45° HORIZONTAL ELBOW
5 - 45° OUTSIDE VERTICAL ELBOW
6 - 45° INSIDE VERTICAL ELBOW
7 - INSIDE 90° VERTICAL ELBOW

8 - REDUCER
9 - HORIZONTAL Tee
10 - BLIND END PLATE
11 - END DROPOUT
12 - HORIZONTAL CROSS
13 - OFFSET REDUCING CONNECTOR
14 - CABLE LADDER
15 - STANDARD CONNECTORS

CABLE LADDER ORDERING CHART



CABLE LADDER PART NUMBER SYSTEM



CABLE LADDER SYSTEM GENERAL INFORMATION



1- LIGHT DUTY CABLE LADDER

SIDE RAIL HEIGHT mm	RUNG SPACING mm	RUNG SIZE mm	METAL THIKNESS mm
100	300	25	1.50
150			

2- MEDIUM DUTY CABLE LADDER

SIDE RAIL HEIGHT mm	RUNG SPACING mm	RUNG SIZE mm	METAL THIKNESS mm
100	250 - 300	25	1.50
150			
200			2.0

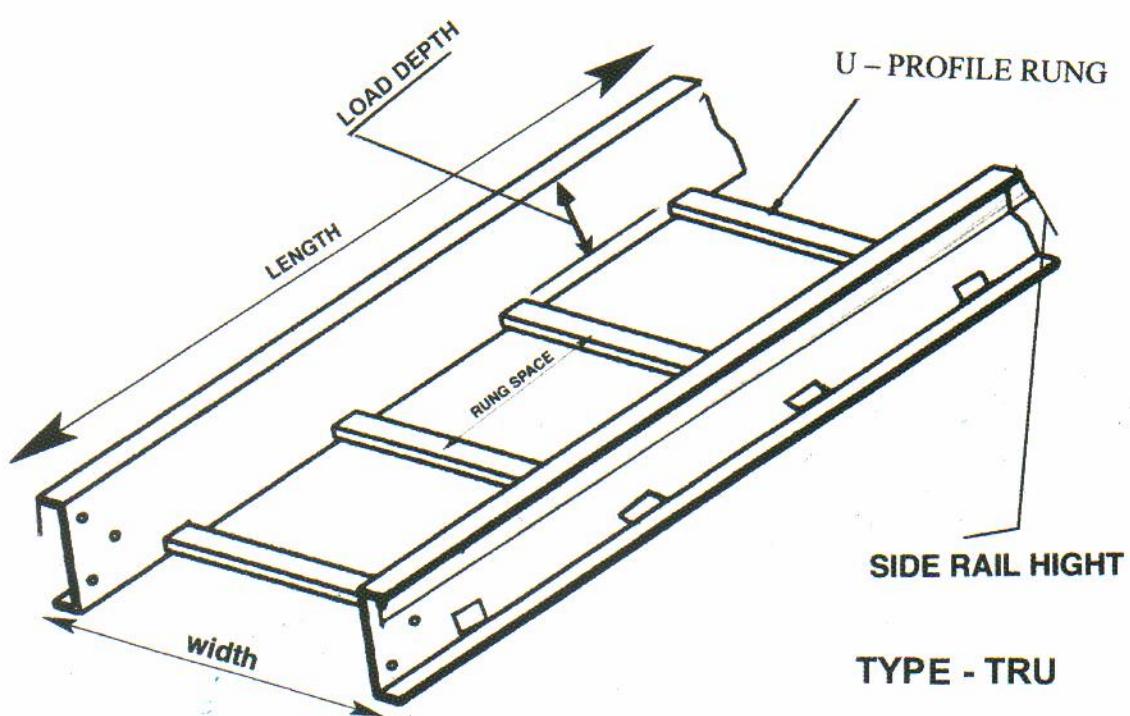
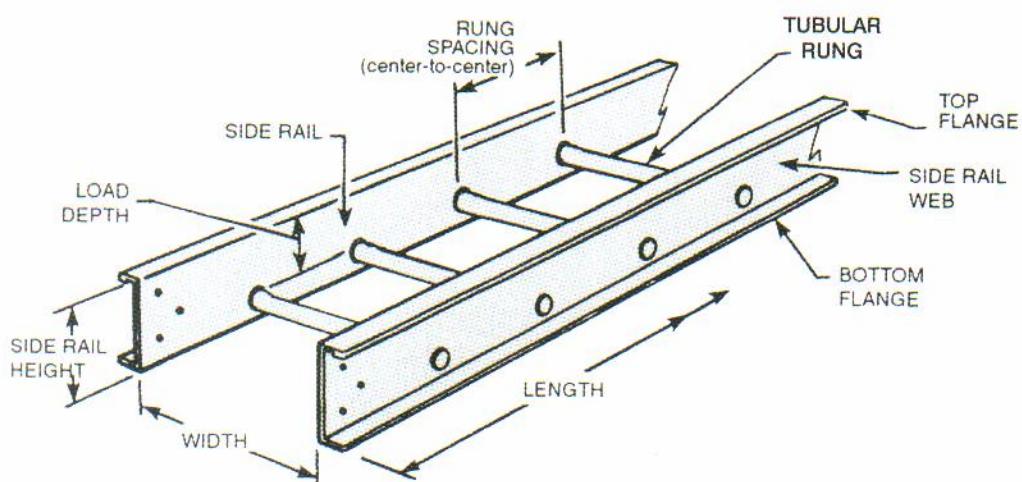
3- HEAVY DUTY CABLE LADDER

SIDE RAIL HEIGHT mm	RUNG SPACING mm	RUNG SIZE mm	METAL THIKNESS mm
100	150 - 200 - 225 300	25	2.0 - 2.5
150			
200			

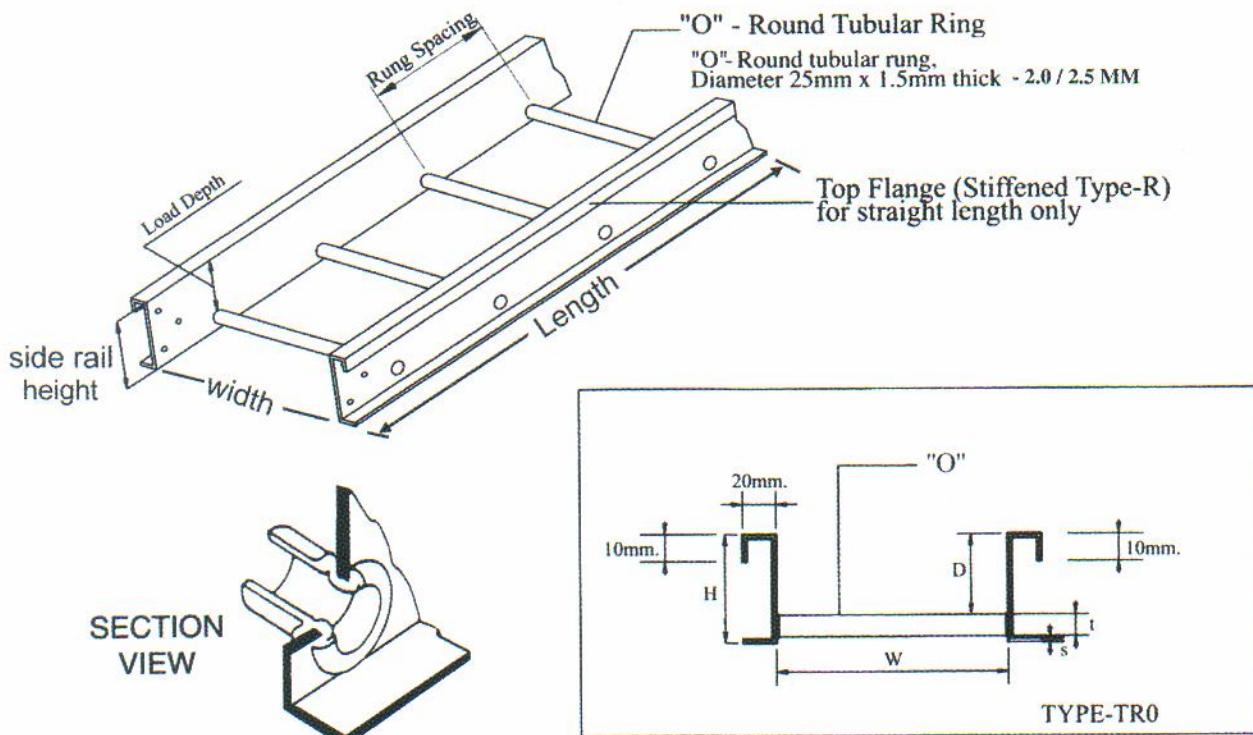
HOT DIP GALVANIZED AFTER FABRICATION (HDGAF)	MILD STEEL TO ASTM A - 123/NEMA VE 1 BS - 729 AND EN ISO 1461 ZINC COATING RANGING FROM 49 - 70 MICRONS DEPENDING ON THE THIKNESS OF THE SHEET
ALUMINIUM	ALUMINIUM ALLOY 5754 (NFA 50-451)

POWDER COATING	POLYESTER POWDER COATING ON MILD STEEL IN R.A.L. COLOURS
----------------	---

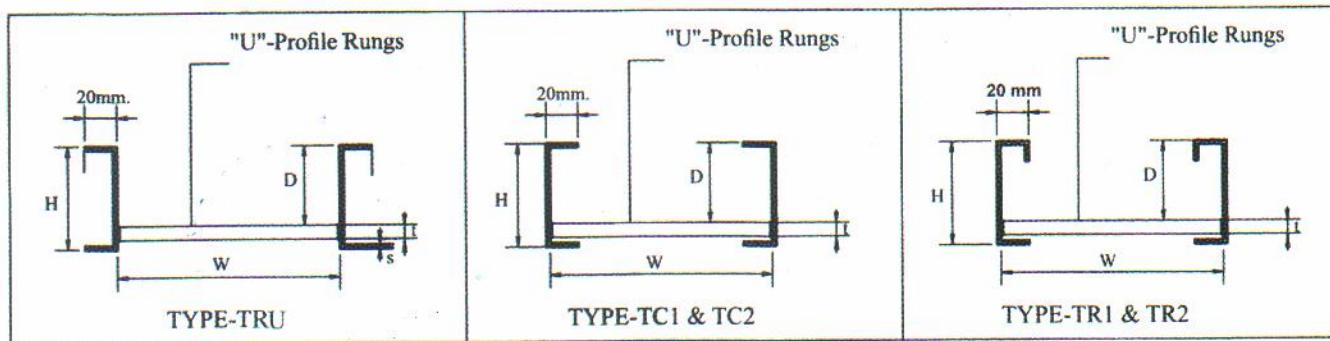
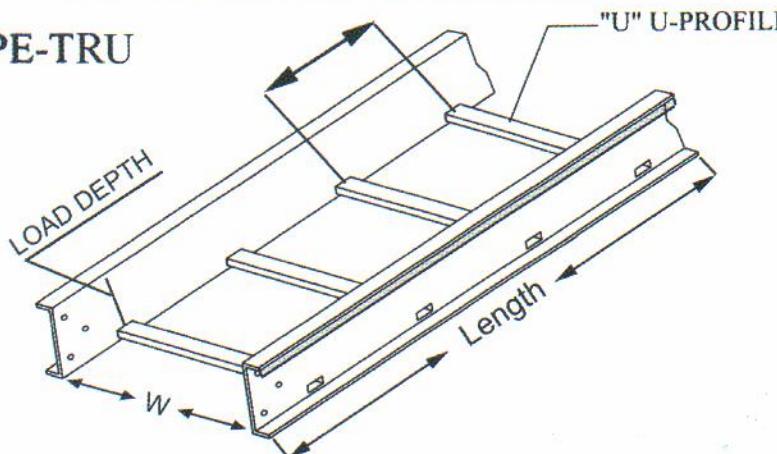
DESCRIPTION OF LADDER



TYPE OF LADDERS



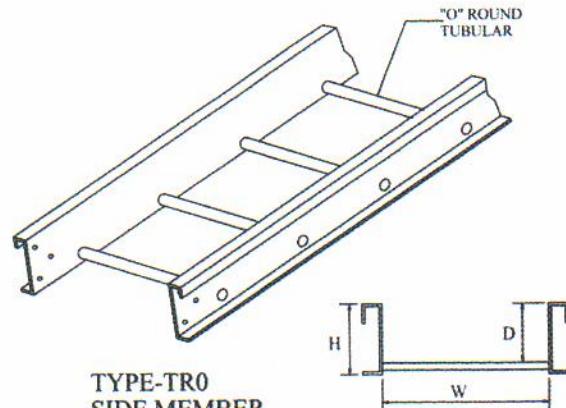
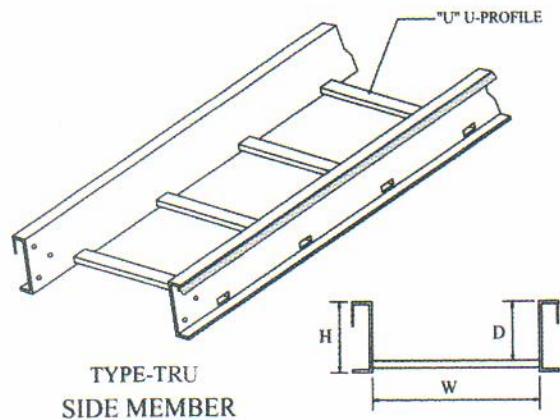
TYPE-TRU



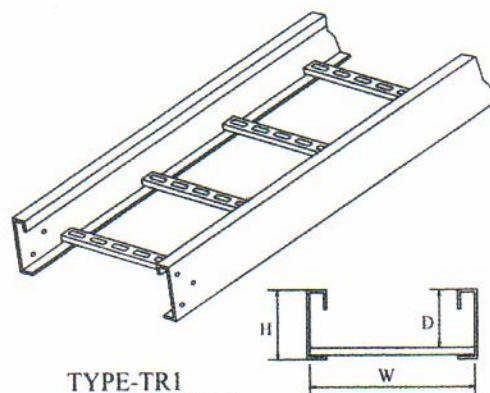
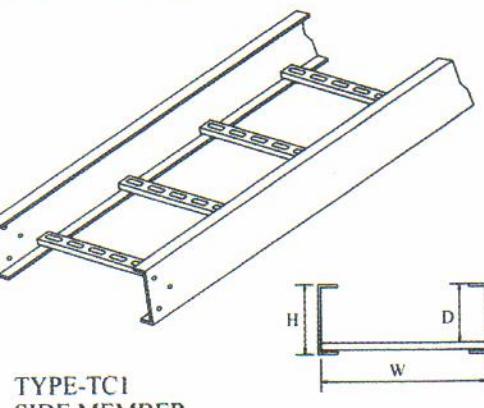
TYPE OF LADDERS



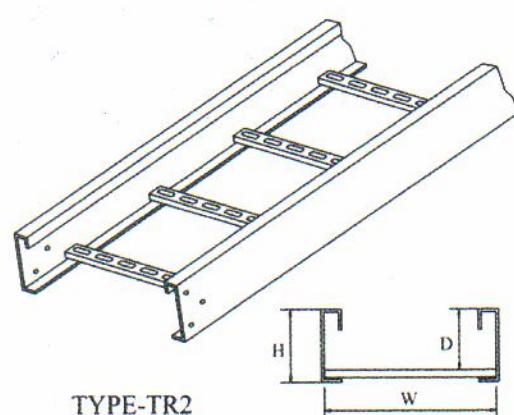
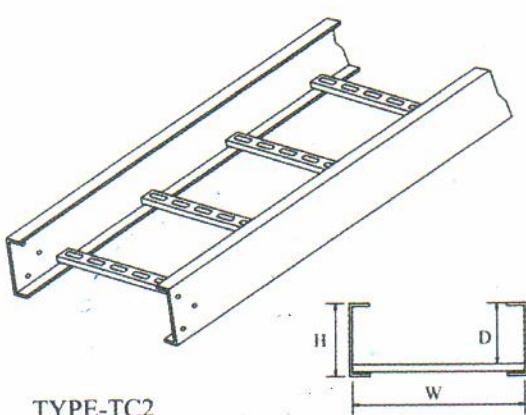
1 - HEAVY DUTY TYPE



2 - MEDIUM-HEAVY DUTY TYPE



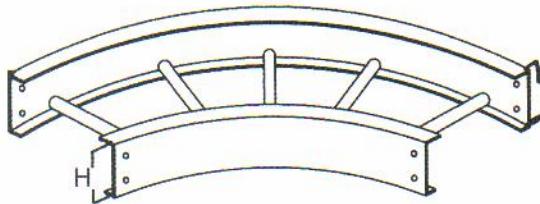
3 - MEDIUM-LIGHT DUTY TYPE



CABLE LADDER FITTINGS

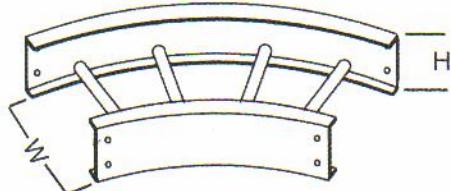


PART DESCRIPTION: 90HB



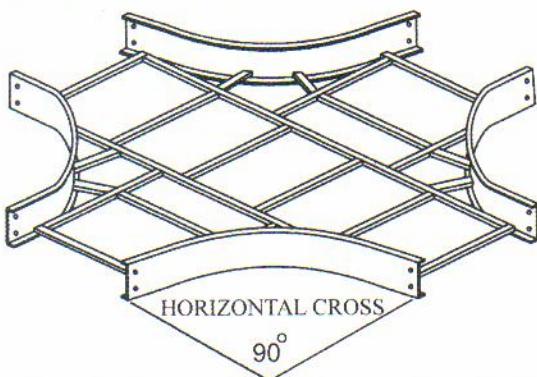
90 DEG. HORIZONTAL BEND

PART DESCRIPTION: 45HB



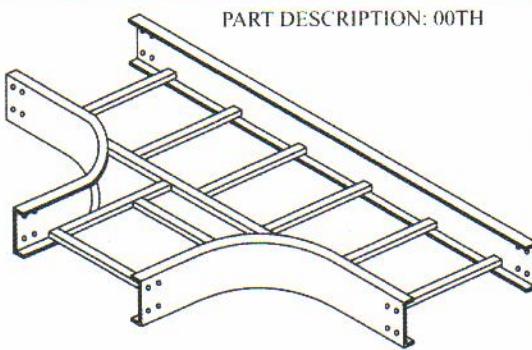
45 DEG. HORIZONTAL BEND

PART DESCRIPTION: 00CH



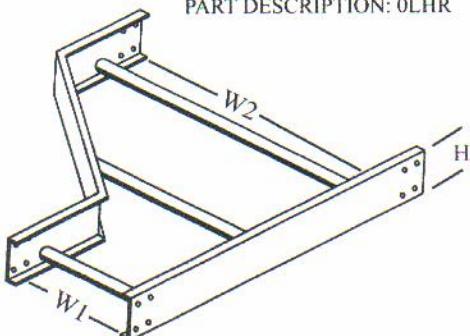
HORIZONTAL CROSS
90°

PART DESCRIPTION: 00TH



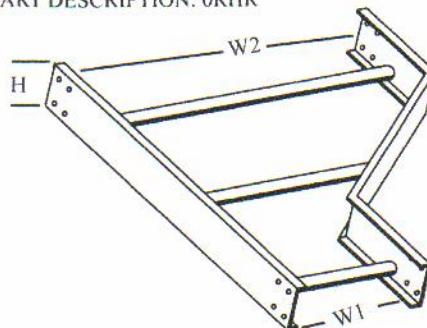
HORIZONTAL Tee

PART DESCRIPTION: 0LHR



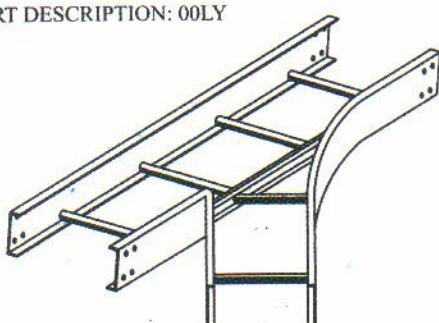
LEFT HAND REDUCER

PART DESCRIPTION: 0RHR



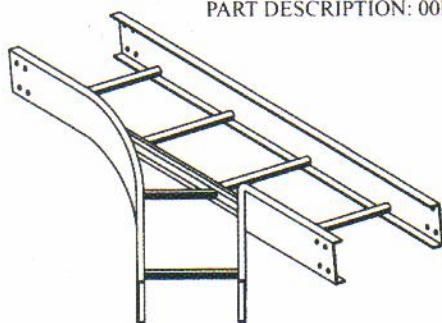
RIGHT HAND REDUCER

PART DESCRIPTION: 00LY



Y - WYE BRANCH LEFT

PART DESCRIPTION: 00RY

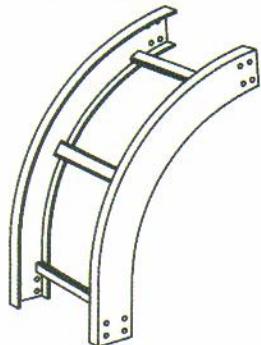


Y - BRANCH RIGHT

CABLE LADDER FITTINGS

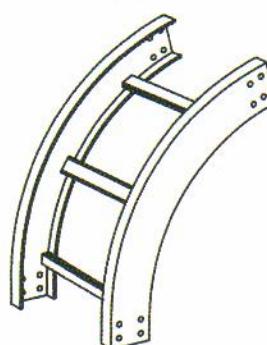


PART DESCRIPTION: 90OR



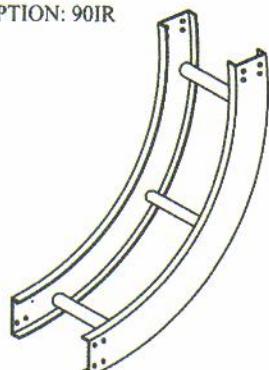
90 DEG. OUTSIDE VERT. BEND

PART DESCRIPTION: 45OR



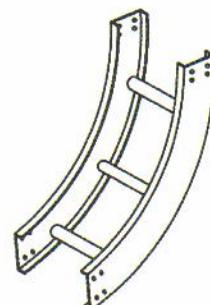
45 DEG. OUTSIDE VERT. BEND

PART DESCRIPTION: 90IR



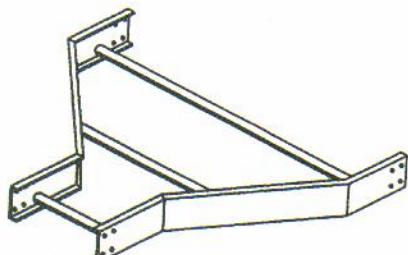
90 DEG. INSIDE VERT. BEND

PART DESCRIPTION: 45IR



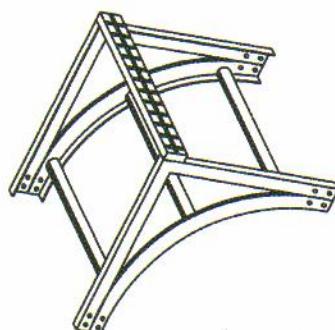
45 DEG. INSIDE VERT. BEND

PART DESCRIPTION: 00SR



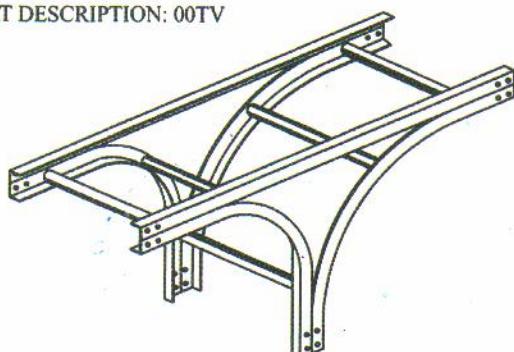
STRAIGHT REDUCER

PART DESCRIPTION: 00SV



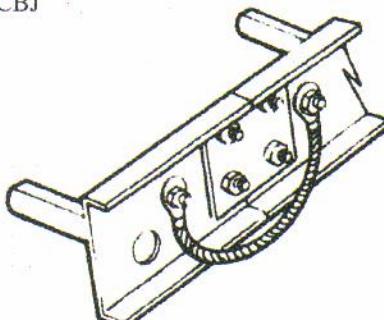
VERTICAL SUPPORT ELBOW

PART DESCRIPTION: 00TV

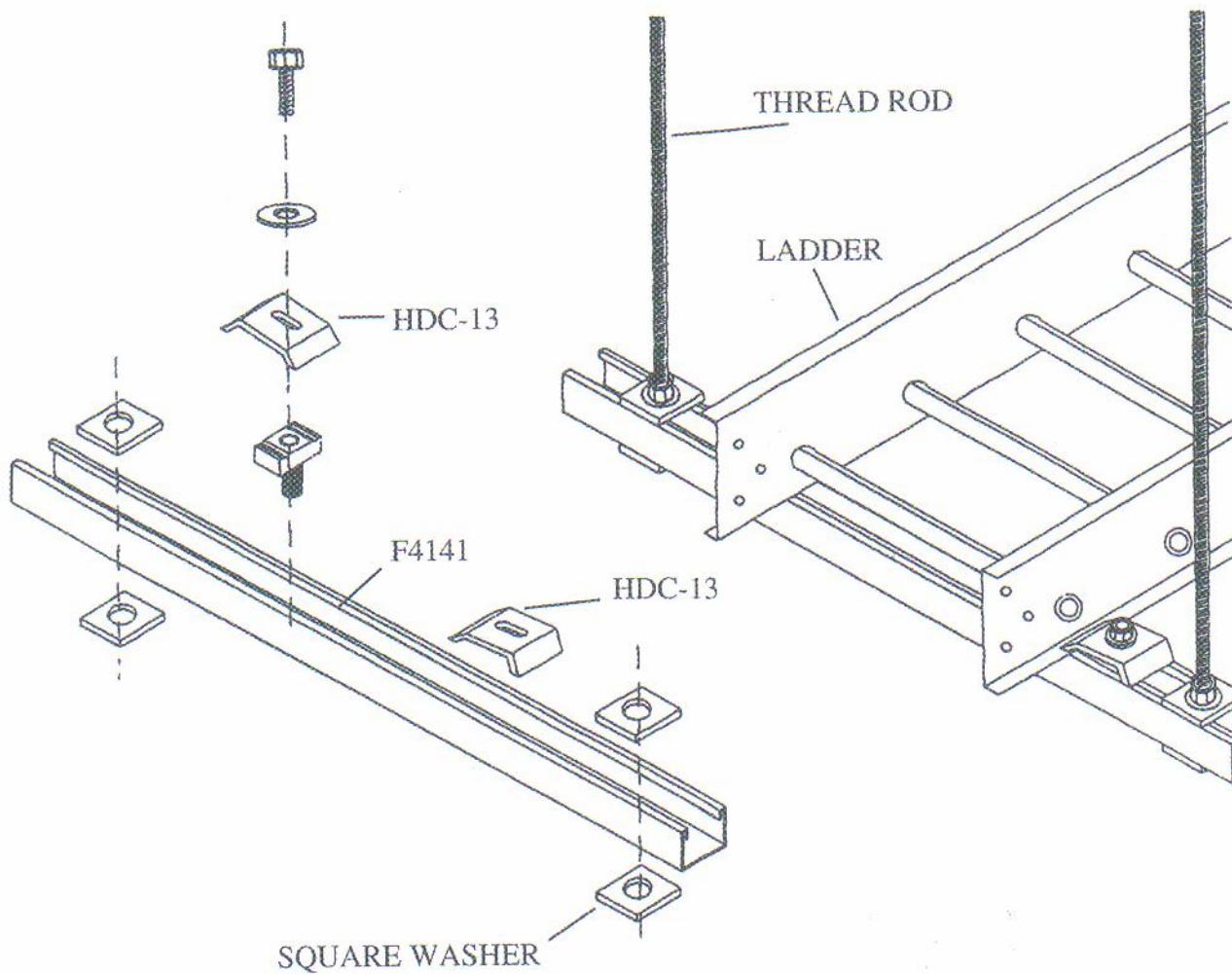


VERTICAL TEE

BONDING JUMPER
PART No. CBJ

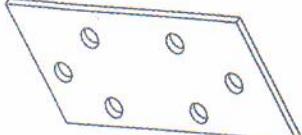
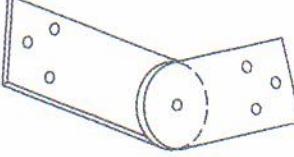
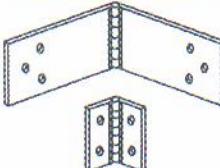
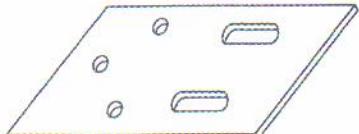
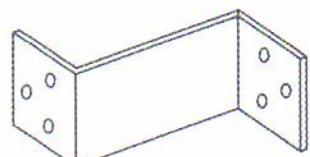
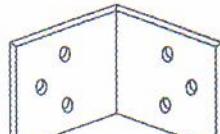
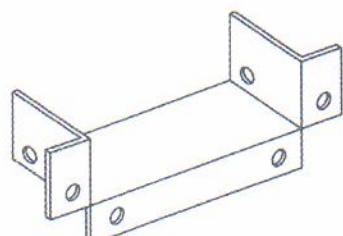


ACCESSORIES FOR LADDER

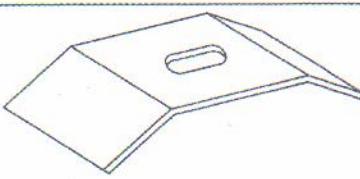
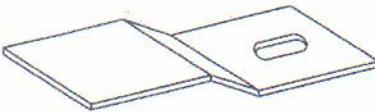


CABLE LADDER ACCESSORIES CONNECTIONS

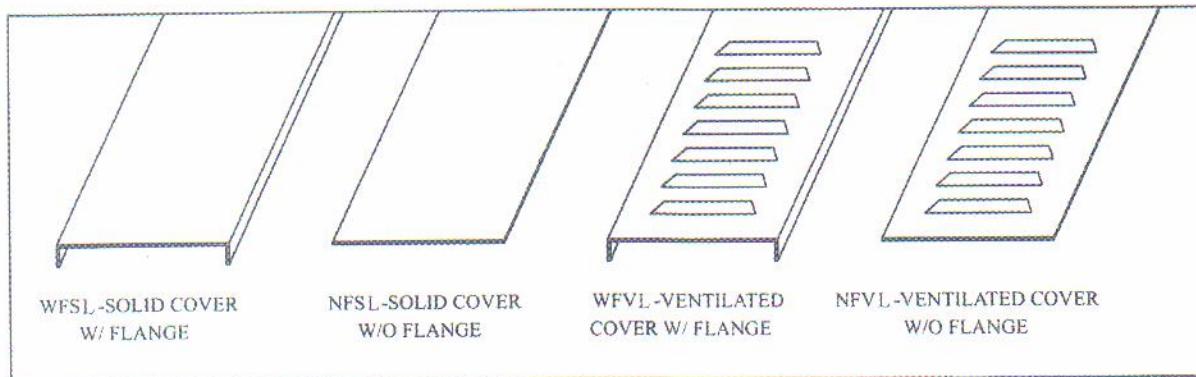


																										
STANDARD CONNECTOR PART REFERENCE : LSC1	VERTICAL ADJUSTABLE CONNECTOR PART REFERENCE : VAC2	HORIZONTAL ADJUSTABLE CONNECTOR PART REFERENCE : HAC3																								
																										
EXPANSION CONNECTOR PART REFERENCE : LCE4	REDUCING CONNECTOR PART REFERENCE : LCR5	90 DEG. ANGLE CONNECTOR PART REFERENCE : A90 - 6																								
	<table border="1"> <thead> <tr> <th>SIDE HT.</th> <th>MATERIAL</th> <th>PART REFERENCE</th> </tr> </thead> <tbody> <tr> <td>2 50 mm</td> <td>B Hot Dip Galvanized (H.D.G.A.F.)</td> <td>- LSC 1</td> </tr> <tr> <td>3 75 mm</td> <td></td> <td>- LCE 4</td> </tr> <tr> <td>4 100 mm</td> <td></td> <td>- VAC 2</td> </tr> <tr> <td>5 125 mm</td> <td></td> <td>- HAC 3</td> </tr> <tr> <td>6 133 mm</td> <td>C Aluminum</td> <td>- LCR 5</td> </tr> <tr> <td>7 150 mm</td> <td></td> <td>- A90 6</td> </tr> <tr> <td></td> <td></td> <td>- LCB 7</td> </tr> </tbody> </table>		SIDE HT.	MATERIAL	PART REFERENCE	2 50 mm	B Hot Dip Galvanized (H.D.G.A.F.)	- LSC 1	3 75 mm		- LCE 4	4 100 mm		- VAC 2	5 125 mm		- HAC 3	6 133 mm	C Aluminum	- LCR 5	7 150 mm		- A90 6			- LCB 7
SIDE HT.	MATERIAL	PART REFERENCE																								
2 50 mm	B Hot Dip Galvanized (H.D.G.A.F.)	- LSC 1																								
3 75 mm		- LCE 4																								
4 100 mm		- VAC 2																								
5 125 mm		- HAC 3																								
6 133 mm	C Aluminum	- LCR 5																								
7 150 mm		- A90 6																								
		- LCB 7																								

CLAMPS

	
HOLD DOWN CLAMP PART REFERENCE : HDC13	EXPANSION GUIDE PART REFERENCE : EGZ

CABLE LADDER COVERS



ORDER BY CATALOG NUMBER

STRAIGHT LENGTHS

EXAMPLE :

WFV BO - 00SL 600 30

WFVL-VENTILATED
COVER W/ FLANGE

WFV = Solid Cover with Flange Type
B = Hot Dip Galvanize
O = Side Rail Type
00SL = Straight Length
600 = 600 mm Wide
30 = 3 Meter Length

FITTINGS

EXAMPLE :

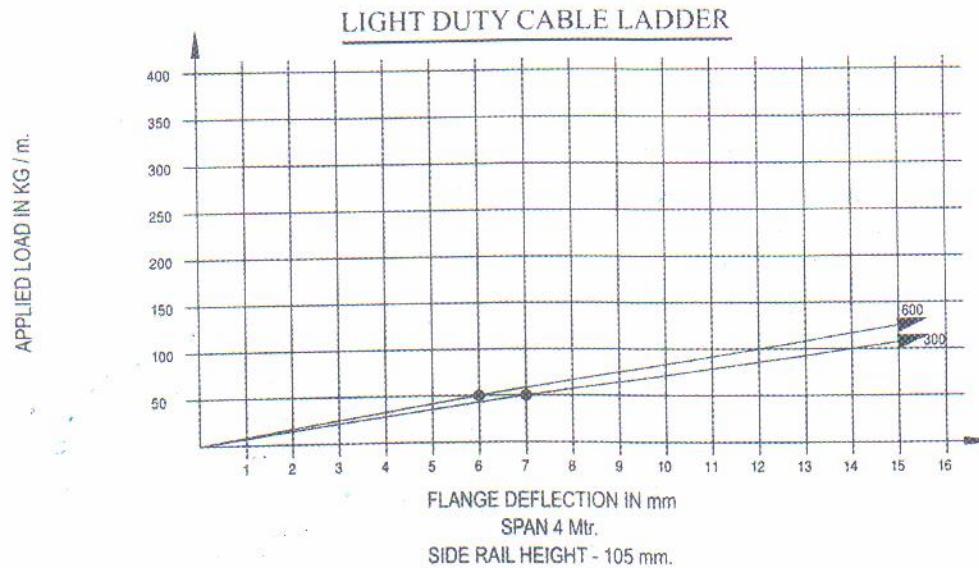
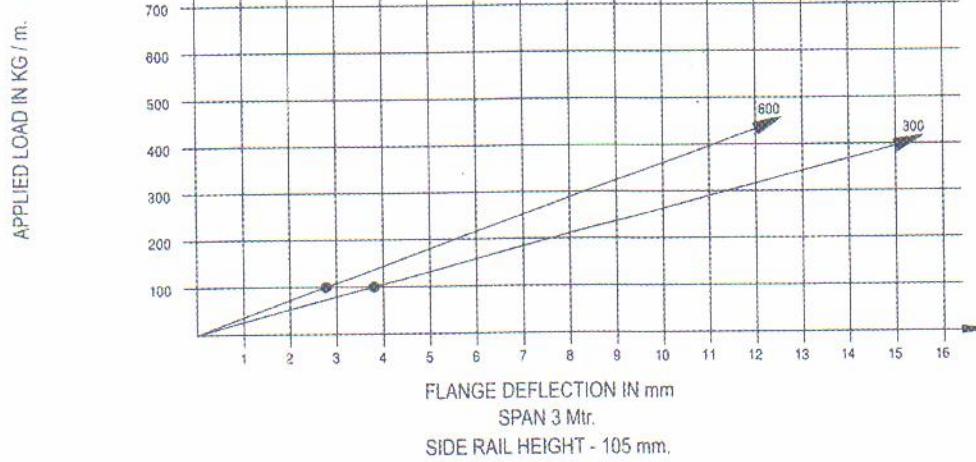
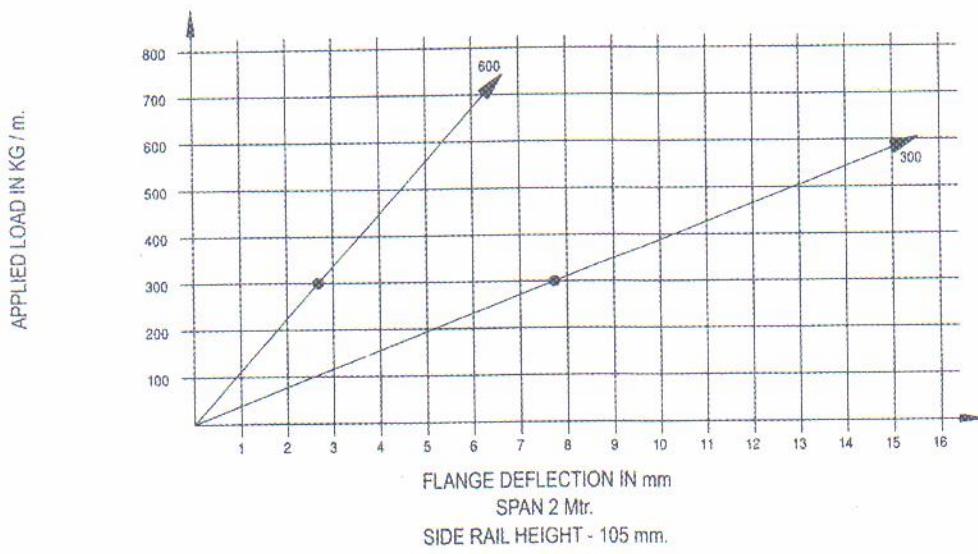
WFS A - 90HB 250 - 30

WFSL-SOLID COVER
W/ FLANGE

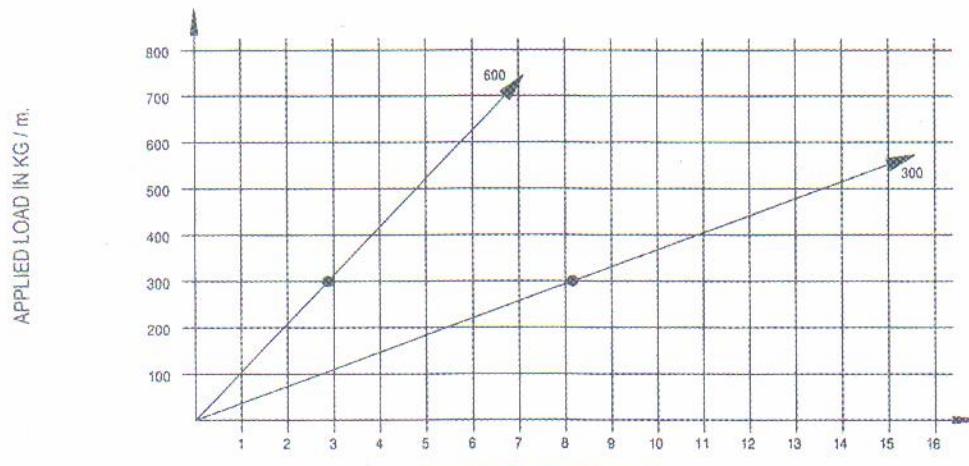
WFS = Solid Cover without Flange
B = Hot Dip Galvanize
90HB = 90 Deg. Horizontal Elbow
250 = 250 mm Wide
30 = 300 mm. Fitting Radius

COVER TYPE	MATERIAL FINISH	SIDE RAIL TYPE	PART DESCRIPTION	WIDTH mm	LENGTH/ RADIUS
STRAIGHT LADDER & FITTINGS		O FOR TYPE-TRU&TR0	00SL - Straight Length 90HB - 90 Deg. Horizontal Bend 45HB - 45 Deg. Horizontal Bend 90IR - 90 Deg. Inside Riser 45IR - 45 Deg. Inside Riser 90OR - 90 Deg. Outside Riser 45OR - 45 Deg. Outside Riser 00TH - Horizontal Tee 00CH - Horizontal Cross 0RHR - Right Hand Reducer 0LHR - Left Hand Reducer 00SR - Straight Reducer 00LY - Y - Branch Left 00RY - Y - Branch Right 00SV - Vertical Support Elbow 00TV - Vertical Tee	150 200 250 300 350 450 500 600 700 750 800 900 1000 1200 1500	STRAIGHT SECTIONS 24 2.44 Meters 30 3 Meters 37 3.7 Meters FITTING RADIUS 30 (300 mm. RAD) 60 (600 mm. RAD) 90 (900 mm. RAD)
NFSL SOLID W/O FLANGE NFVL VENT. W/O FLANGE	B Hot Dip Galvanized (H.D.G.A.F.) C ALUMINUM	OUTSIDE FLANGE I FOR TYPE-TC1&TR1 TYPE-TC2&TR2 INSIDE FLANGE L			
STRAIGHT LADDER ONLY					
WFSL SOLID W/ FLANGE WFVL VENT W/ FLANGE					

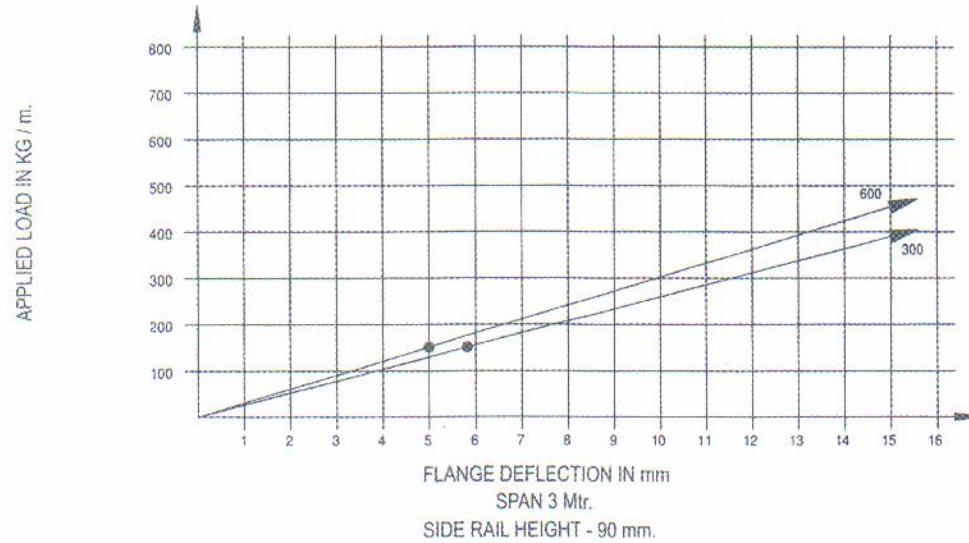
LOADING GRAPH FOR CABLE LADDER



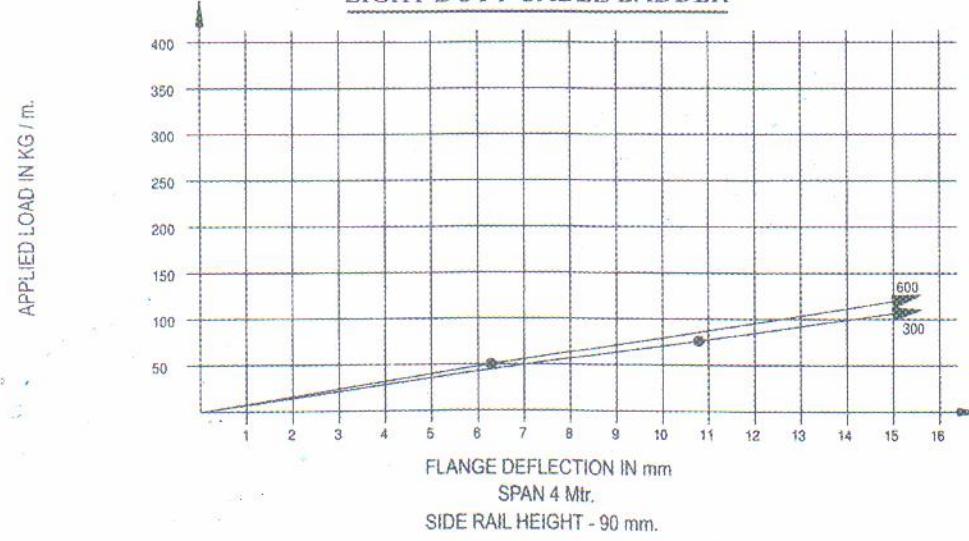
LOADING GRAPH FOR CABLE LADDER



LIGHT DUTY CABLE LADDER



LIGHT DUTY CABLE LADDER

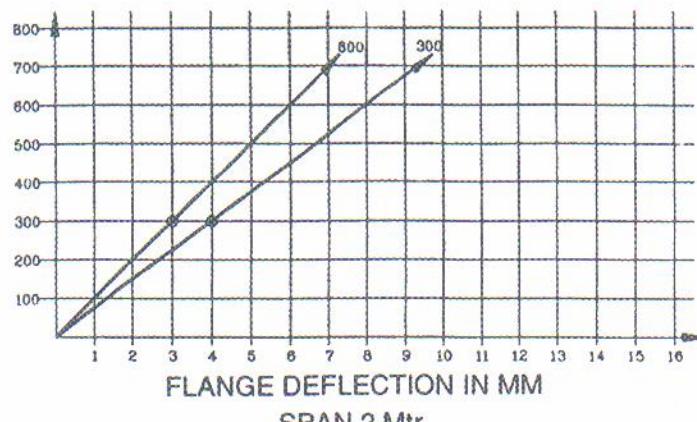


LIGHT DUTY CABLE LADDER

LOADING GRAPH FOR CABLE LADDER



APPLIED LOAD IN KG / M.

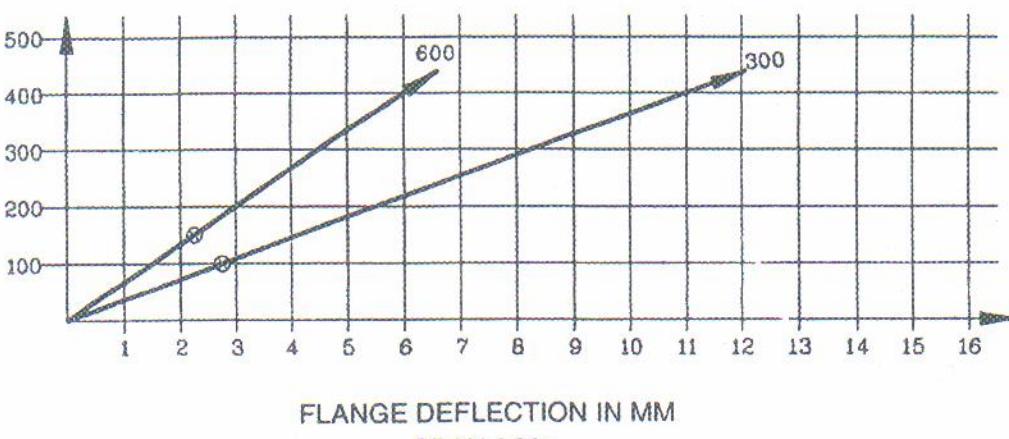


SPAN 2 Mtr.

SIDE RAIL HEIGHT - 120 mm

MEDIUM DUTY CABLE LADDER

APPLIED LOAD IN KG / M.

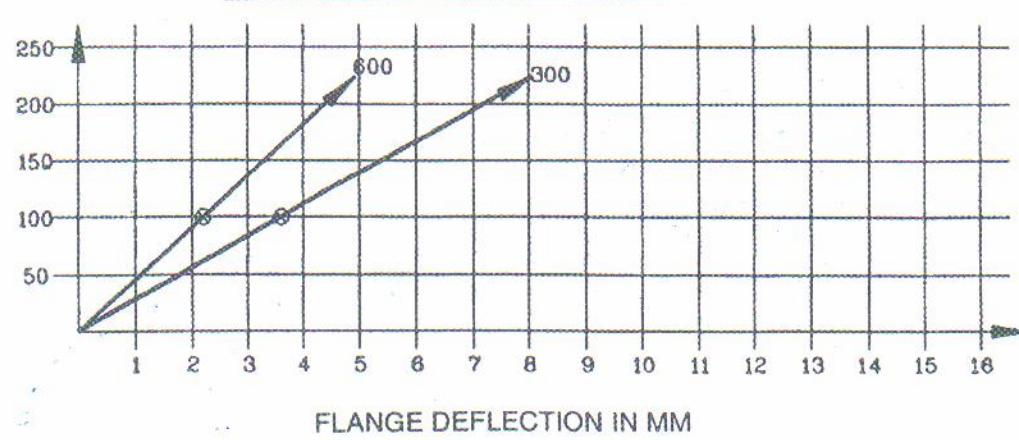


SPAN 3 Mtr.

SIDE RAIL HEIGHT - 120 mm

MEDIUM DUTY CABLE LADDER

APPLIED LOAD IN KG / M.

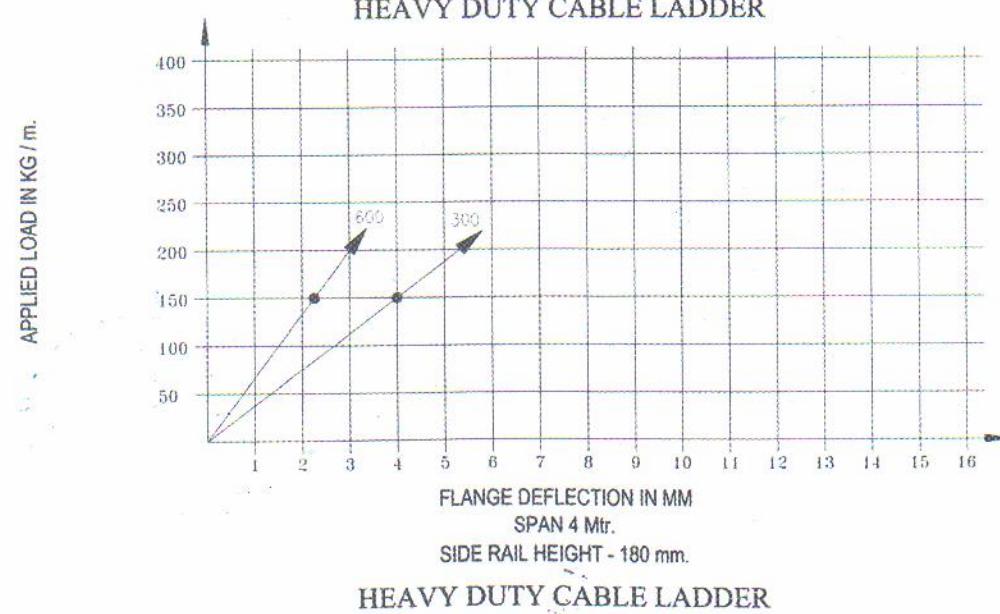
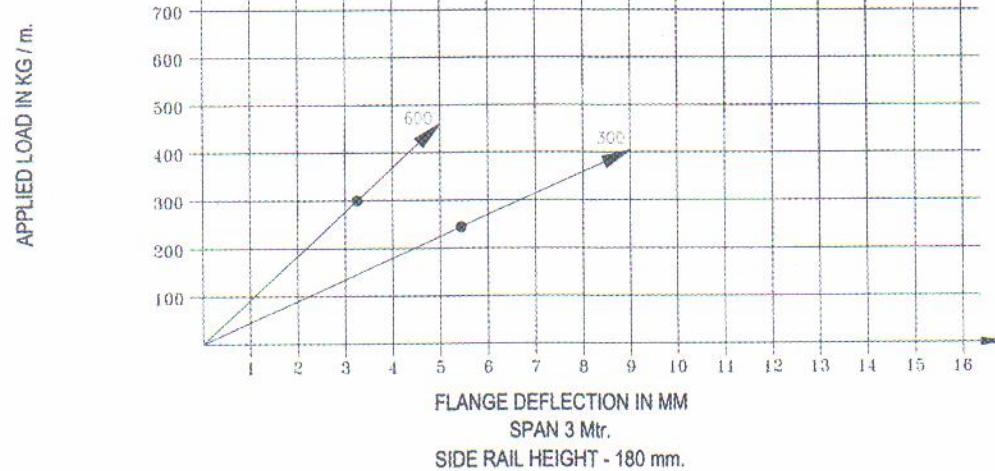
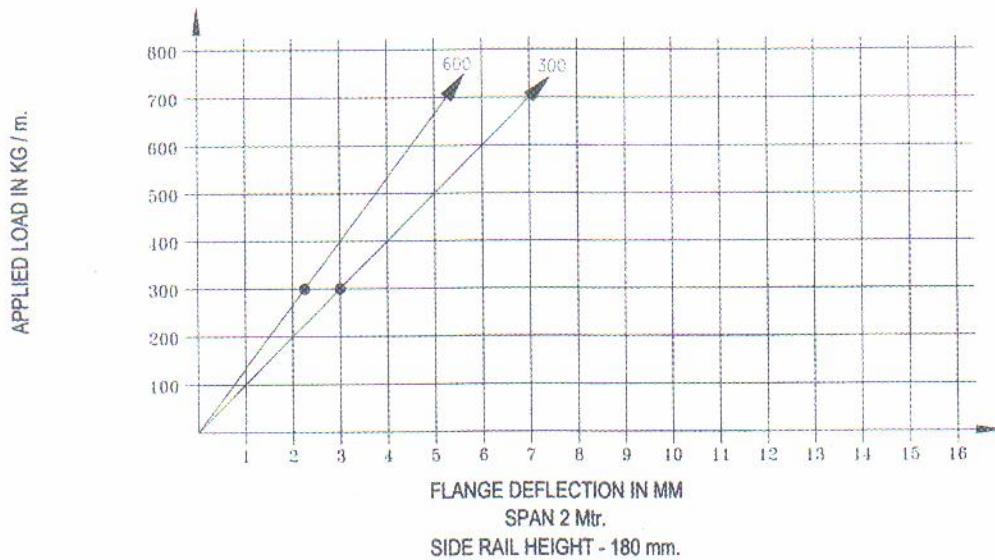


SPAN 4 Mtr.

SIDE RAIL HEIGHT - 120 mm

MEDIUM DUTY CABLE LADDER

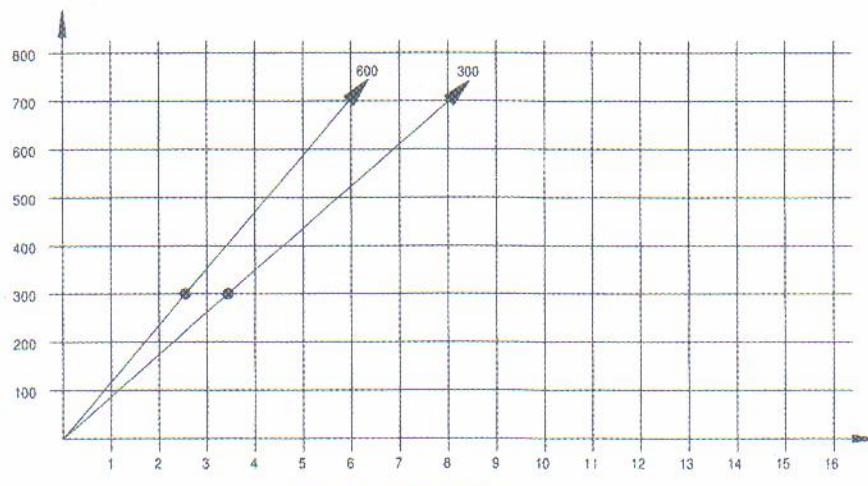
LOADING GRAPH FOR CABLE LADDER



LOADING GRAPH FOR CABLE LADDER



APPLIED LOAD IN KG / m.

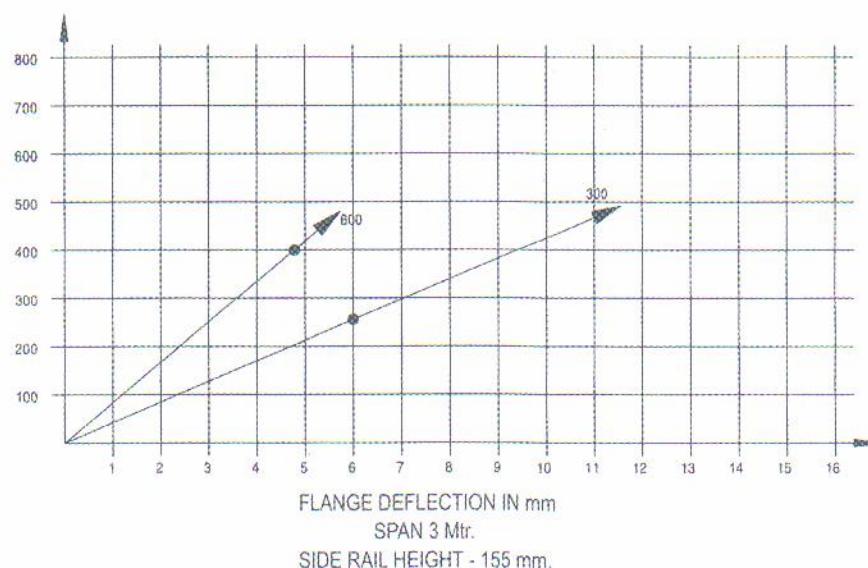


FLANGE DEFLECTION IN mm
SPAN 2 Mtr.

SIDE RAIL HEIGHT - 155 mm.

HEAVY DUTY CABLE LADDER

APPLIED LOAD IN KG / m.

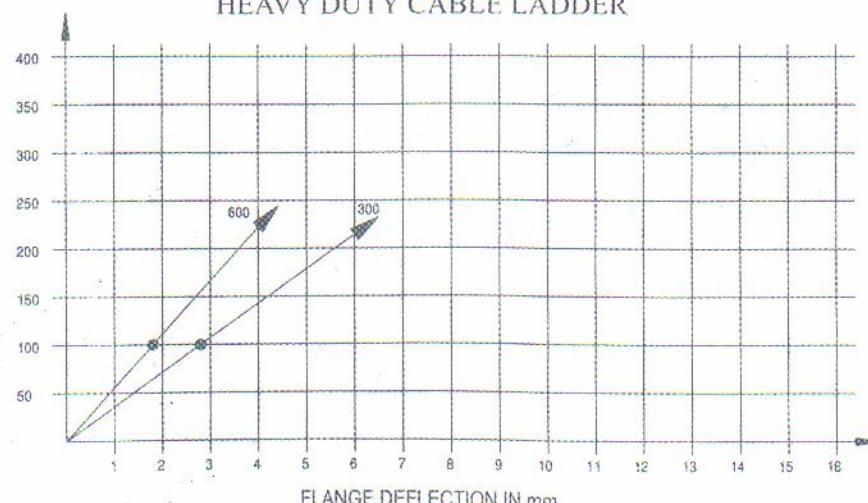


FLANGE DEFLECTION IN mm
SPAN 3 Mtr.

SIDE RAIL HEIGHT - 155 mm.

HEAVY DUTY CABLE LADDER

APPLIED LOAD IN KG / m.

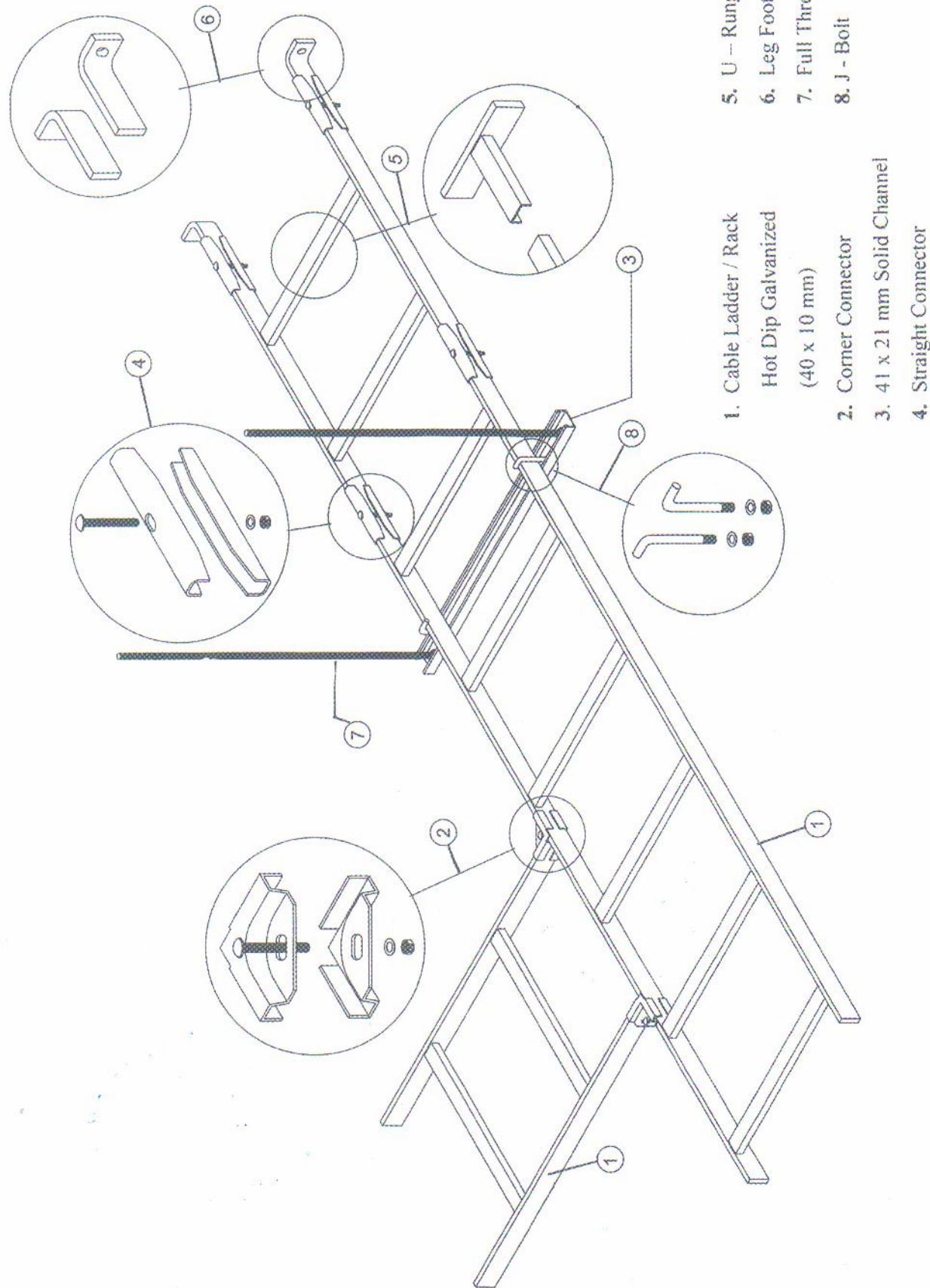


FLANGE DEFLECTION IN mm
SPAN 4 Mtr.

SIDE RAIL HEIGHT - 155 mm.

HEAVY DUTY CABLE LADDER

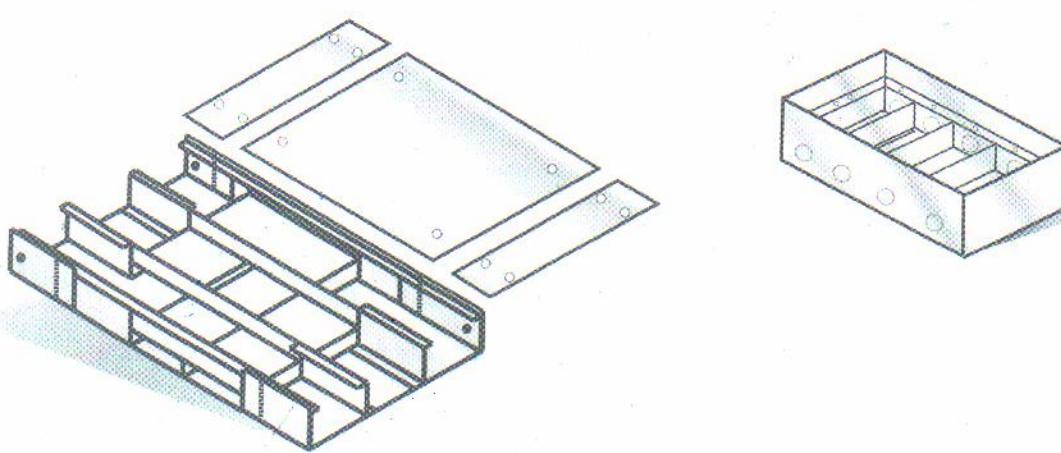
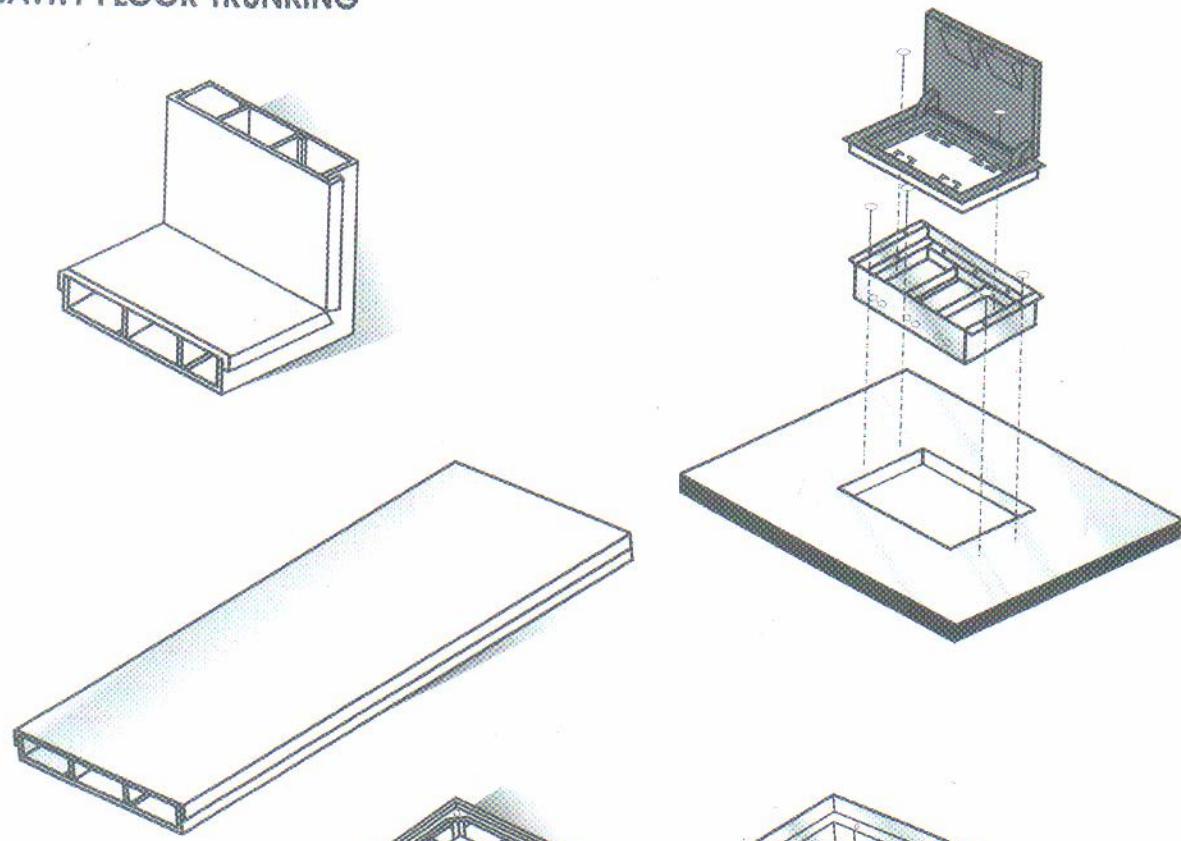
TELE COMMUNICATION CABLE RACK



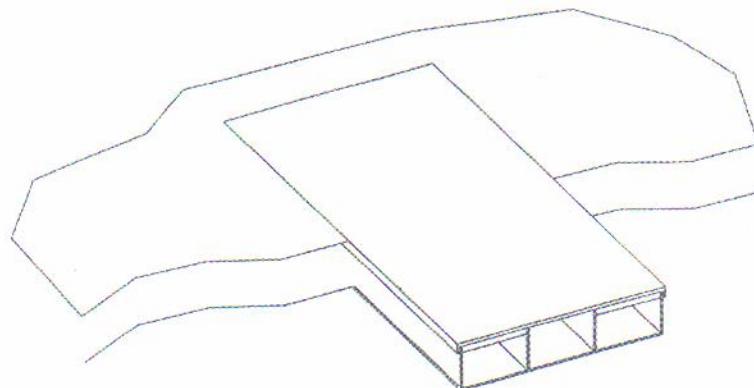
TRUNKING



- 1- UNDER FLOOR TRUNKING
- 2- FLUSH FLOOR TRUNKING
- 3- INCAVITY FLOOR TRUNKING



UNDER FLOOR TRUNKING ORDERING CHART



3-COMPARTMENT

STRAIGHT SECTION

100 UFT 3- OSL B 2 05 - 24

Width _____
Type _____
No. of
Compartment _____
Part Description _____

- Length
- Side
- Height
- Thickness
- Material
- Finish

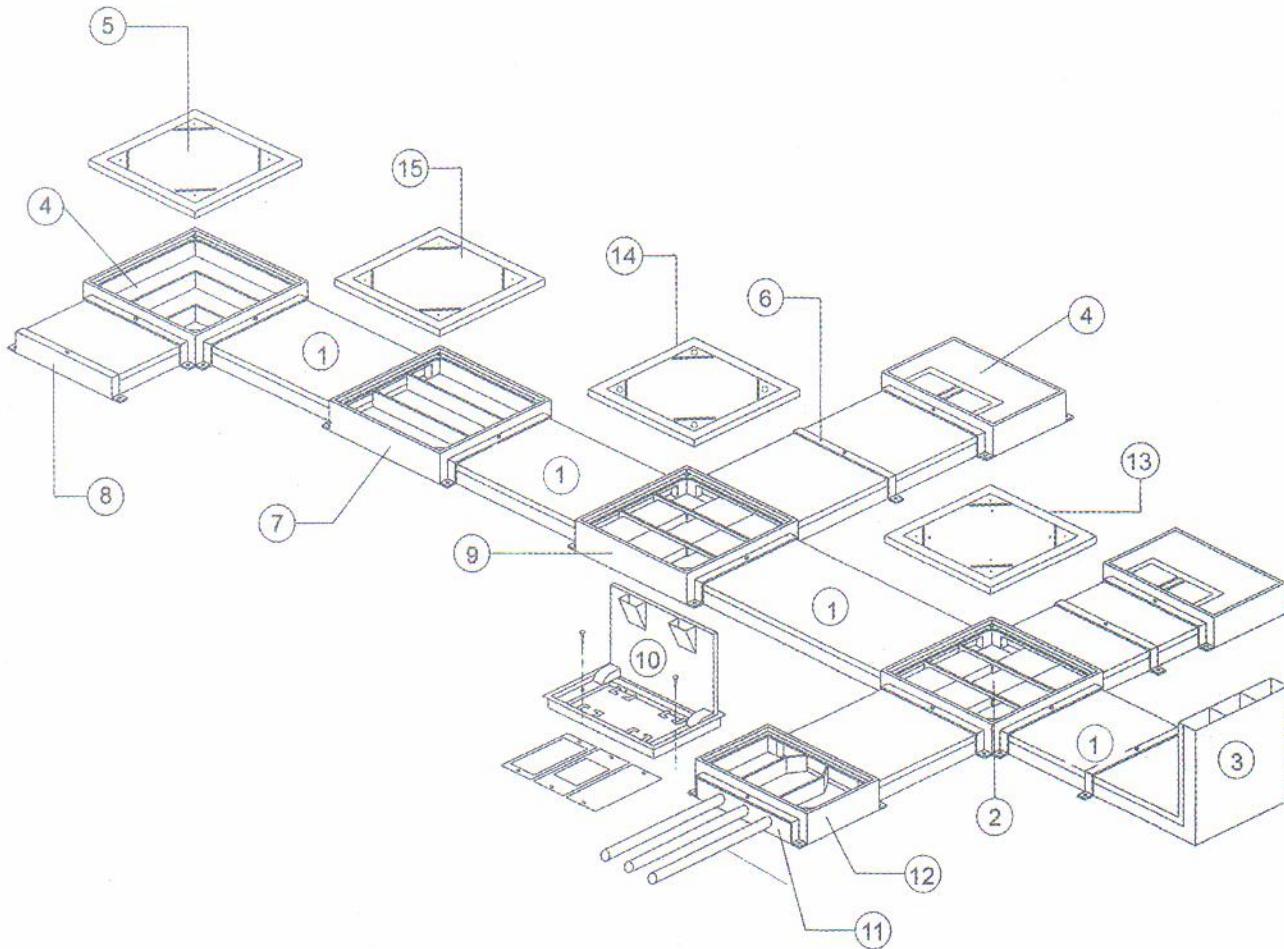
FITTING

100 UFT3-90H B 2 05 - TC

Width _____
Type _____
No. of
Compartment _____
Part Description _____

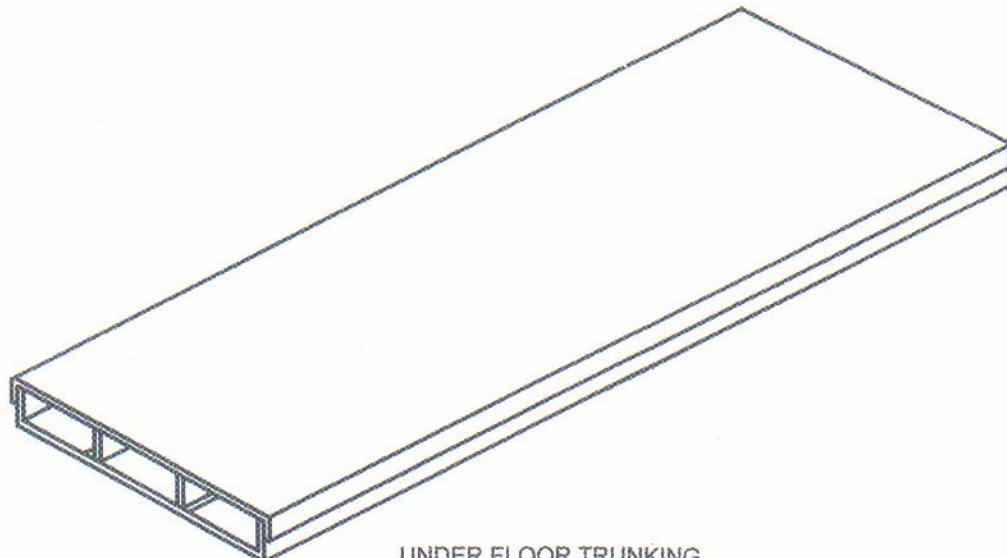
Cover
Type
Side
Height
Thickness
Material
Finish

PRODUCT - RANGE UNDER FLOOR TRUNKING



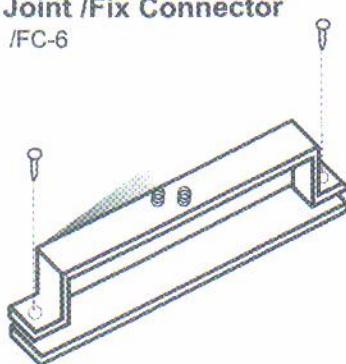
NO	CODE	PRODUCT	NO	CODE	PRODUCT
1	UFT-1	METAL TRUNKING	8	SE-8	STOP END
2	4WJB-2	4-WAY JUNCTION BOX	9	3WJB-9	3-WAY JUNCTION BOX
3	90RB3	90° RISER BEND	10	HLA-10	HINGED LID ASSEMBLY
4	90JB-4	90° ANGLE JUNCTION BOX	11	CC-11	CONDUIT CONNECTOR
5	JBC-5	JUNCTION BOX COVER	12	SOB-12	SERVICE OUTLET BOX
6	JFC-6	JOINT/FIX CONNECTOR	13	SOBW-13	SERVICE OUTLET BOX W/COVER
7	2WJB-7	2-WAY JUNCTION BOX	14	3W JBC 14	3-Way Junction Box Cover
			15	2W JBC 15	3-Way Junction Box Cover

UNDER FLOOR TRUNKING

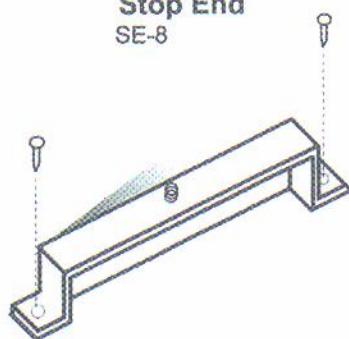


UNDER FLOOR TRUNKING
UFT-1

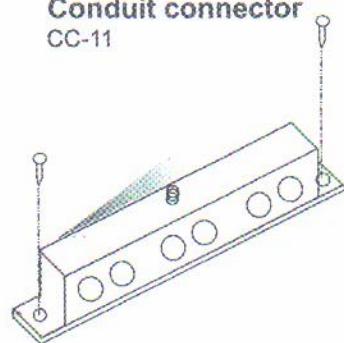
Joint /Fix Connector
/FC-6



Stop End
SE-8



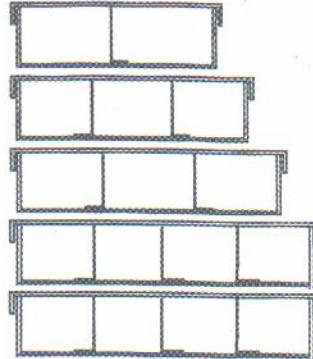
Conduit connector
CC-11



Trunking

Width mm	Height mm	Part No.
150	28 38	UFT / 150 / 2C
225	28 38	UFT / 225 / 3C
325	28 38	UFT / 325 / 3C
406	28 38	UFT / 406 / 4C
600	38	UFT / 600 / 4C

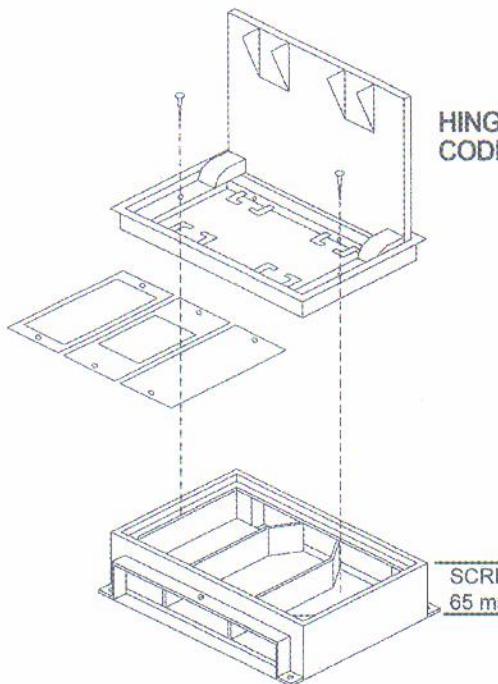
Section



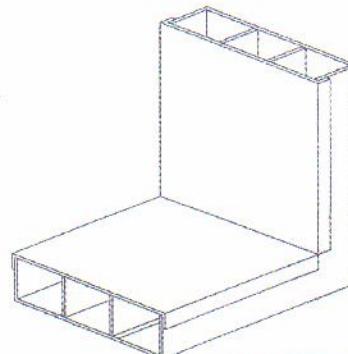
Compartments

No.	Width			
	1st	2nd	3rd	4th
2C	75	75	■	■
3C	75	75	75	■
3C	110	105	110	■
4C	102	101	101	102
4C	150	150	150	150

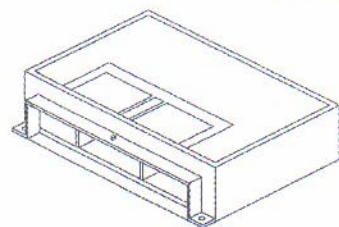
ACCESSORIES UNDER FLOOR TRUNKING



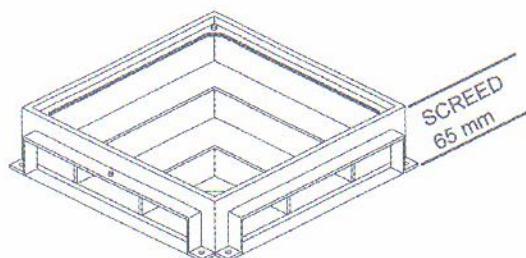
SERVICE OUTLET BOX
CODE: SOB-12



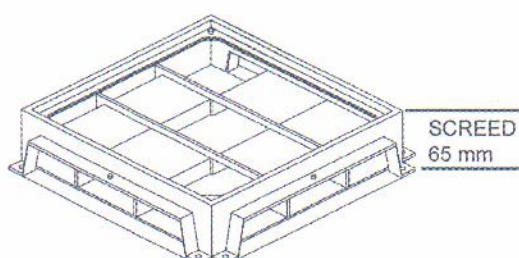
90° RISER BEND
CODE: 90RB -3



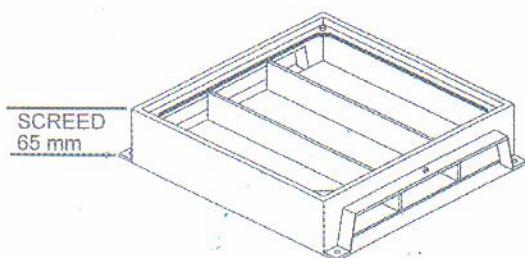
SERVICE OUTLET BOX
WITH COVER
CODE: SOBW-13



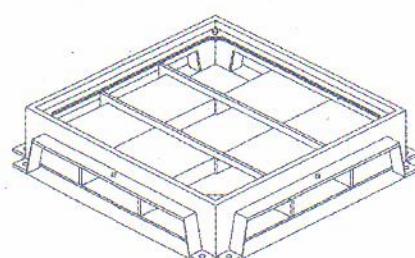
90° ANGLE JUNCTION BOX
CODE: 90JB-4



3-WAY JUNCTION BOX
CODE: JB-9



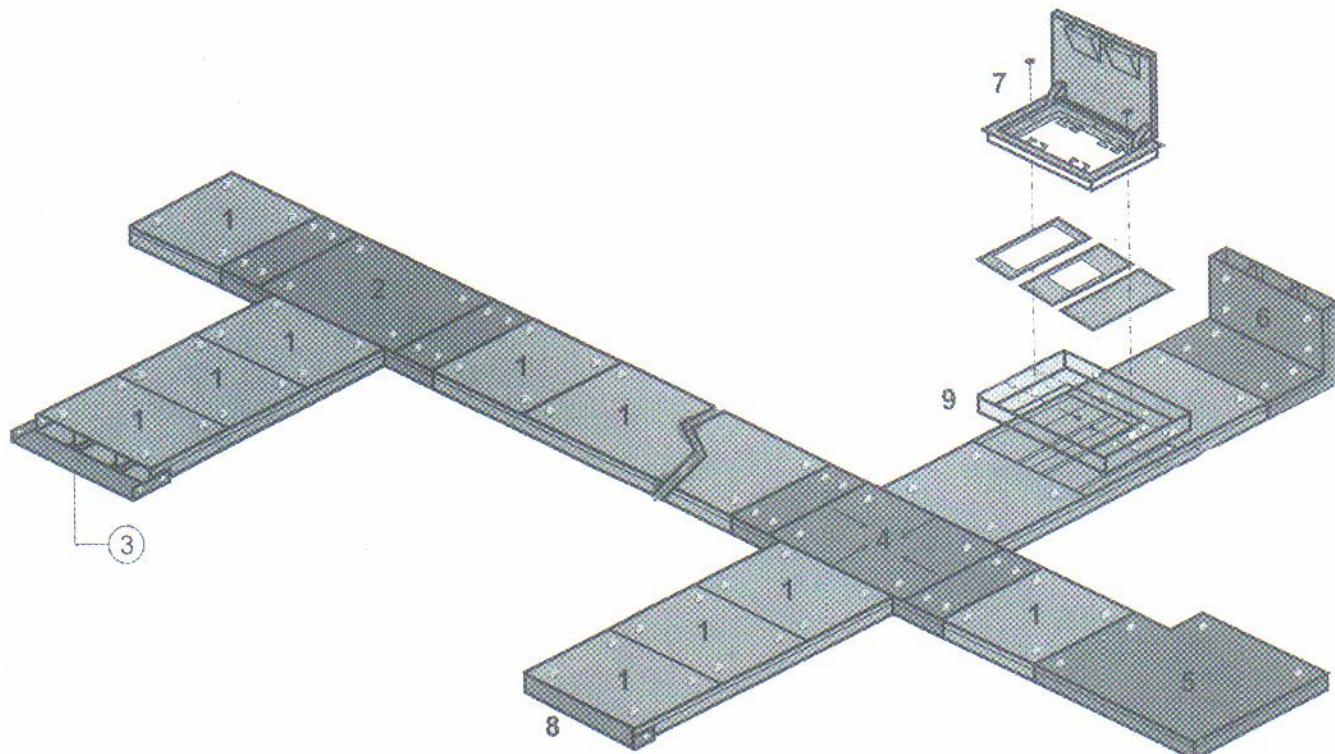
2-WAY JUNCTION BOX
CODE: 2WJB -7



4-WAY JUNCTION BOX
CODE: 4WJB -2

PRODUCT RANGE

FLUSH FLOOR TRUNKING



No.	Part No.	PRODUCT
1	FST-30	Metal Trunking
2	3WJB-4	3 Way Junction Box
3	J/FC-2	Joint/fix Connector
4	4WJB-5	4 Way Junction Box
5	90° A-3	90 Deg. Angle

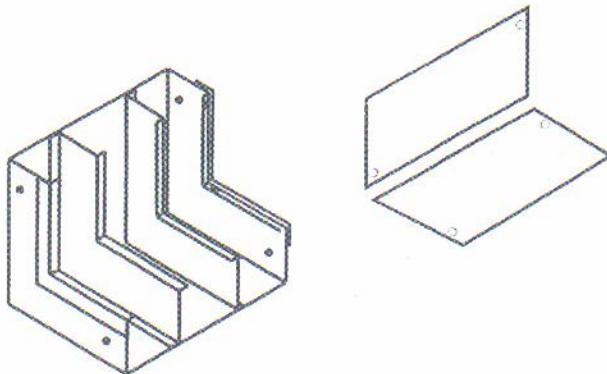
No.	Part No.	PRODUCT
6	90° RB-6	90 Deg. Riser Bend
7	HLA-7	Hinged Lid Assembly
8	SE-8	Stop End
9	GJ-9	Grid Kit

ACCESSORIES FLUSH FLOOR TRUNKING



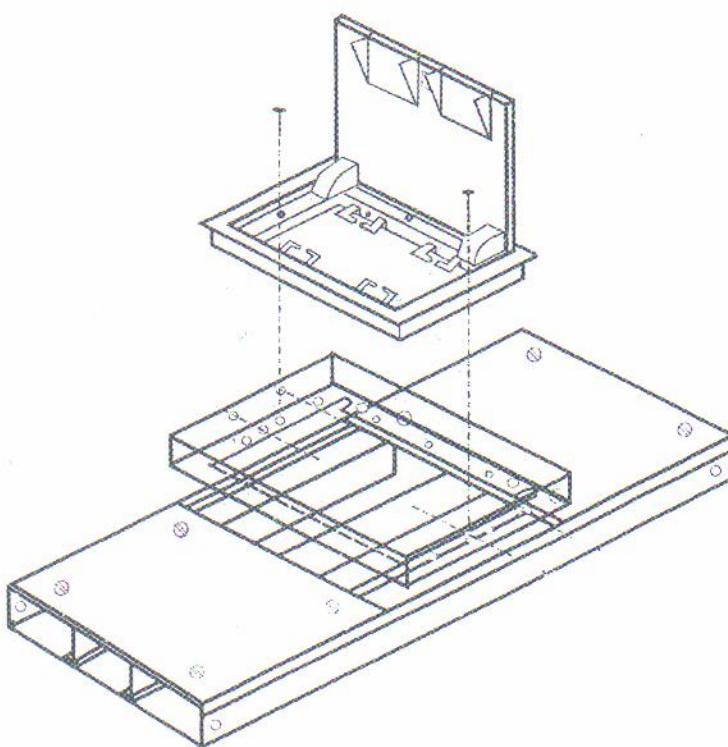
4. Riser Bend

Width mm	Height mm	Part No.
280	65	FSTRB / 280 / 2C
325	65	FSTRB / 325 / 3C
340	65	FSTRB / 340 / 3C



Service Outlet Installation

Width mm	Height mm	Part No.
280	65	SOI / 280 / 2C
325	65	SOI / 325 / 3C
340	65	SOI / 340 / 3C



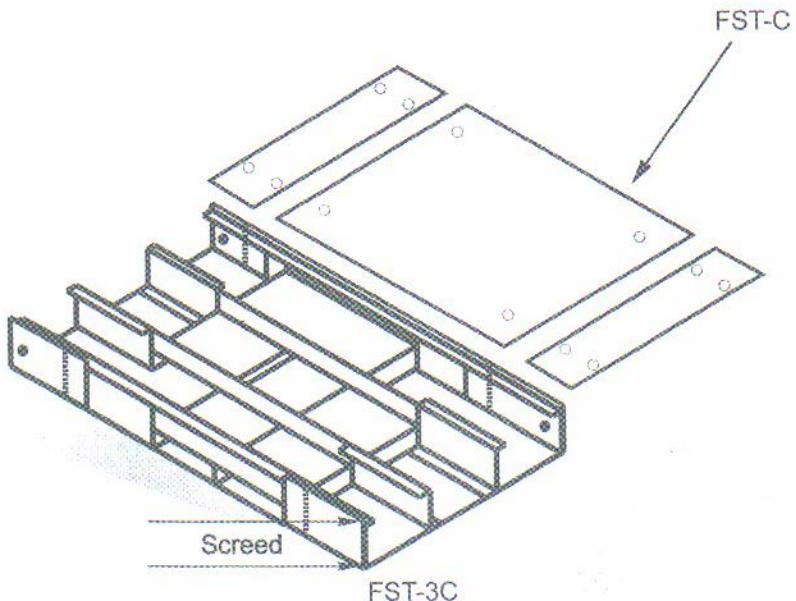
ACCESSORIES

FLUSH FLOOR TRUNKING



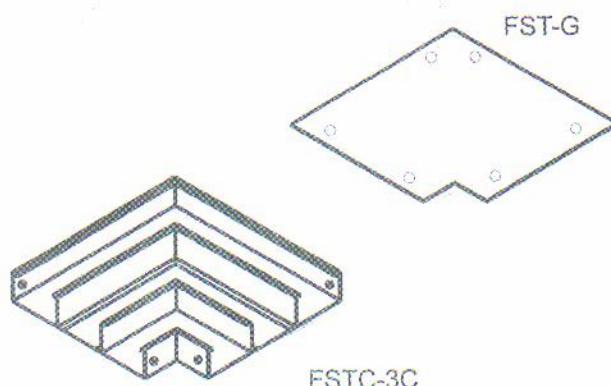
D. Flush Screed Trunking

SCREED 65MM - FST / 325 / 3C
SCREED 75MM - FST / 325 / 3C
SCREED 85MM - FST / 325 / 3C



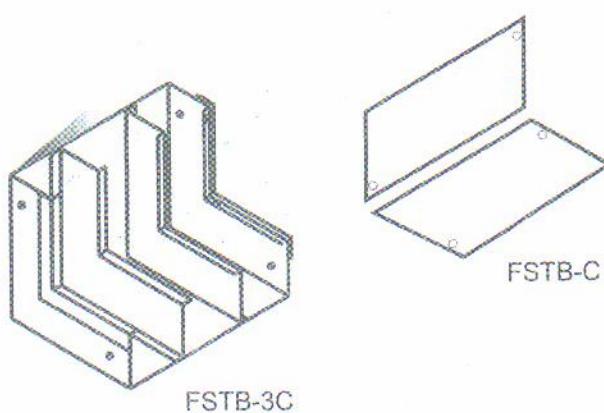
S. 4 Way Cross

SCREED 65MM - FSTC / 325 / 3C
SCREED 75MM - FSTC / 325 / 3C
SCREED 85MM - FSTC / 325 / 3C



A. 90 Deg. Angle

SCREED 65MM - FSTB / 325 / 3C
SCREED 75MM - FSTB / 325 / 3C
SCREED 85MM - FSTB / 325 / 3C



M. Riser Bend

SCREED 65MM - FSTRB / 325 / 3C
SCREED 75MM - FSTRB / 325 / 3C
SCREED 85MM - FSTRB / 325 / 3C

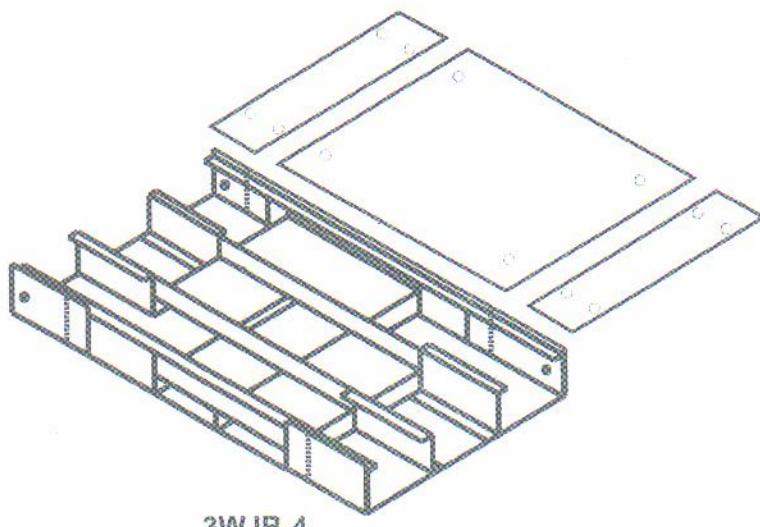
ACCESSORIES

Trunking System With Scred 65*75 And 85 MM



1. Tee

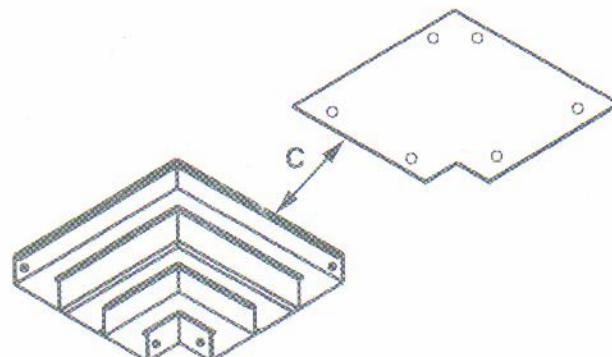
Width mm	Height mm	Part No.
280	65	FSTT / 280 / 2C
325	65	FSTT / 325 / 3C
340	65	FSTT / 340 / 3C



3WJB-4

2. 90 Deg. Angle

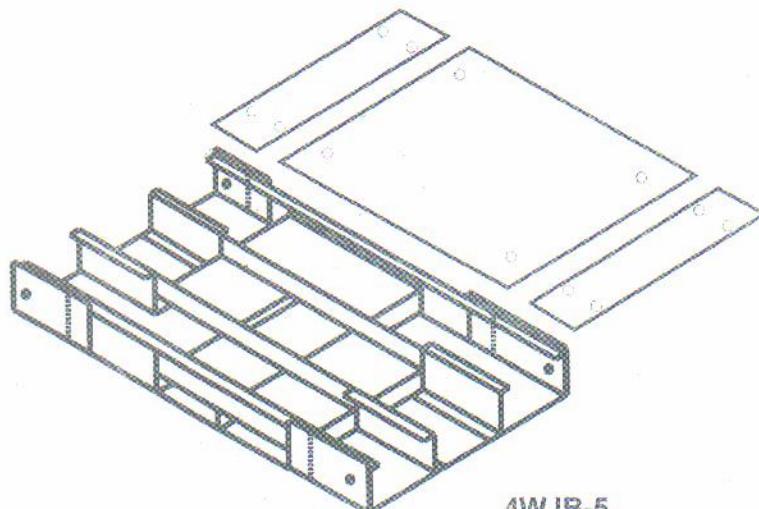
Width mm	Height mm	Part No.
280	65	FSTB / 280 / 2C
325	65	FSTB / 325 / 3C
340	65	FSTB / 340 / 3C



90° A-3-4

3. 4 Way Cross

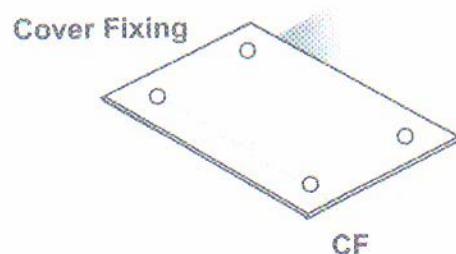
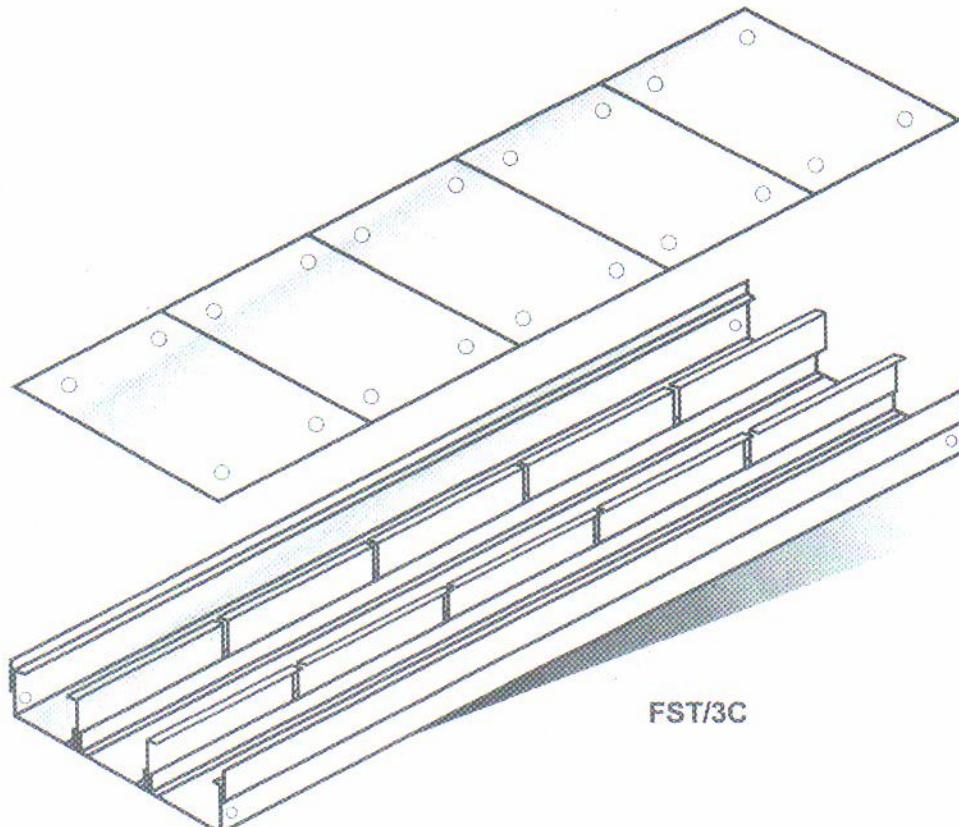
Width mm	Height mm	Part No.
280	65	FSTC / 280 / 2C
325	65	FSTC / 325 / 3C
340	65	FSTC / 340 / 3C



4WJB-5

ACCESSORIES

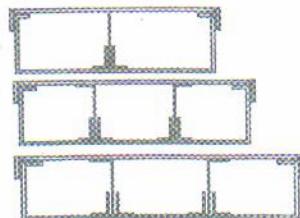
FLUSH FLOOR TRUNKING



1. Trunking

Width mm	Height mm	Part No.
280	65	FST / 280 / 2C
325	65	FST / 325 / 3C
340	65	FST / 340 / 3C

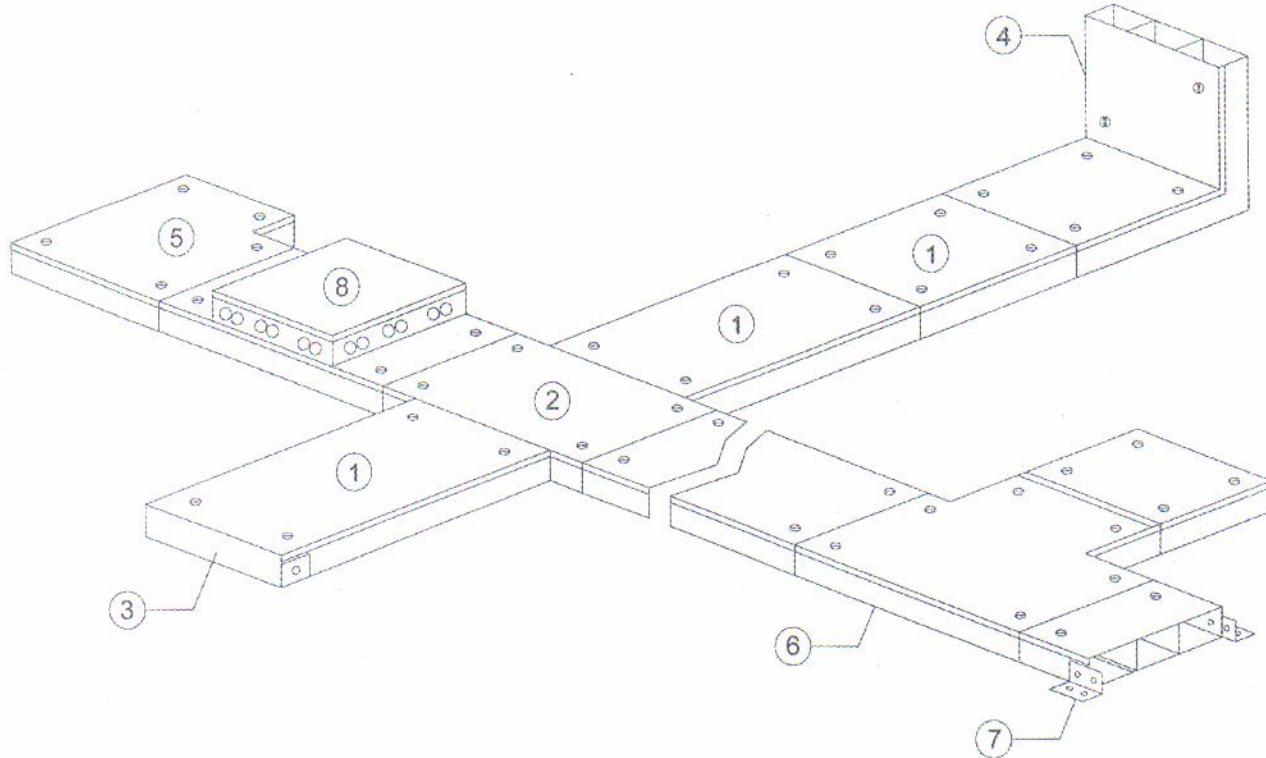
Section



Compartments

No.	Sizes			
	1st	2nd	3rd	4th
2	140	140	-	-
3	110	105	110	-
3	113	114	113	-

PRODUCT - RANGE IN - CAVITY TRUNKING



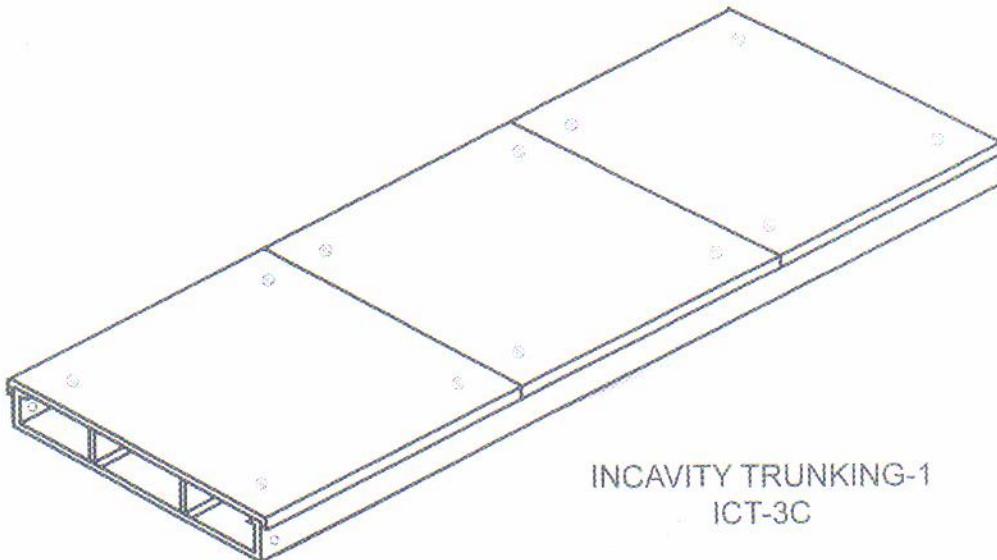
- 1 METAL TRUNKING
- 2 4-WAY JUNCTION BOX
- 3 STOP END
- 4 90° RISER BEND

- 5 90° ANGLE
- 6 3-WAY JUNCTION BOX
- 7 CONNECTOR
- 8 TAP-OFF UNIT

IN CAVITY FLOOR TRUNKING

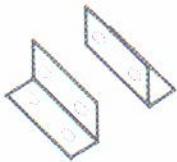


Our trunking system is designed to provide a solution for laying cables in most types of floor voids. The system is light weight, quick assembly and sits on the subfloor in void under the raised access floor. Our systems ensure maximum flexibility and convenience for the end user.

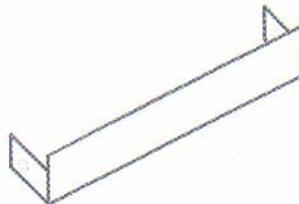


INCAVITY TRUNKING-1
ICT-3C

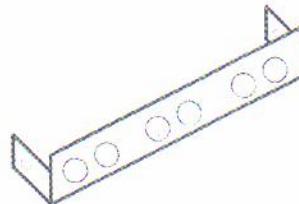
Joint /Fix Connector
JFC-6



Stop End
SE-8



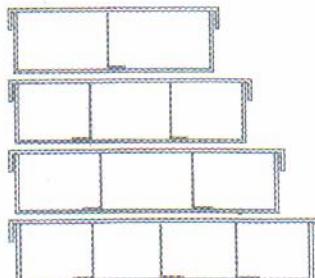
Conduit connector
CC-11



Trunking

Width mm	Height mm	Part No.
280	60	ICT / 280 / 2C
325	60	ICT / 325 / 3C
365	60	ICT / 365 / 3C
406	60	ICT / 406 / 4C

Section



Compartments

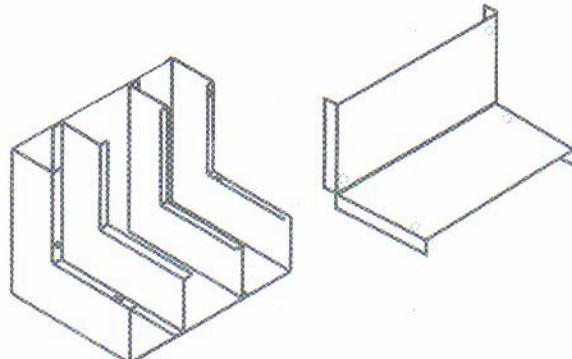
No.	Width			
	1st	2nd	3rd	4th
2	140	140	■■	■■
3	110	105	110	■■
3	122	121	122	■■
4	102	101	101	102

ACCESSORIES - INCAVITY TRUNKING



Riser Bend

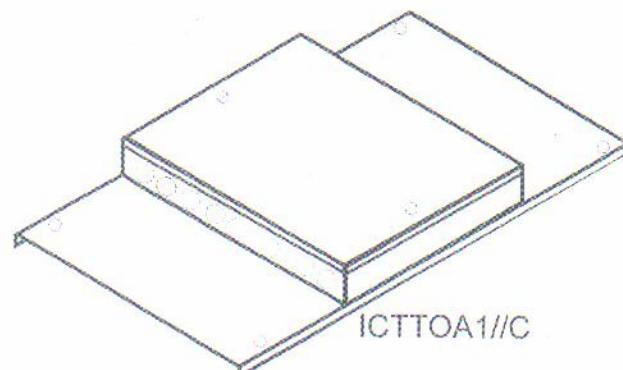
Width mm	Height mm	Part No.
280	60	ICTRB / 280 / 2C
325	60	ICTRB / 325 / 3C
365	60	ICTRB / 365 / 3C
406	60	ICTRB / 406 / 4C



ICTTB3253/C

Tap Off Unit Type -A

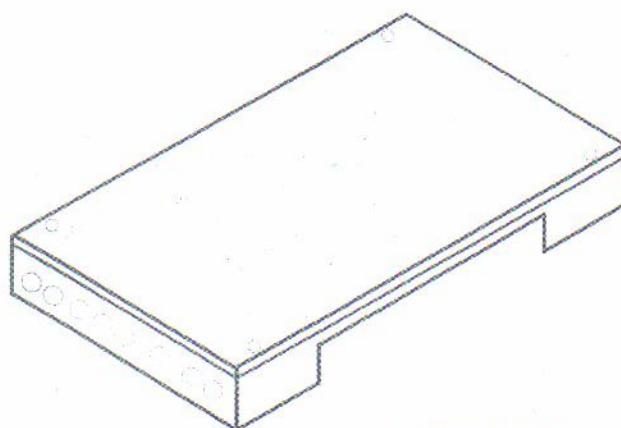
Width mm	Height mm	Part No.
280	60	ICTTOA / 280 / 2C
325	60	ICTTOA / 325 / 3C
365	60	ICT TOA / 365 / 3C
406	60	ICTTOA / 406 / 4C



ICTTOA1//C

Tap Off Unit Type -B

Width mm	Height mm	Part No.
280	60	ICTTOB / 280 / 2C
325	60	ICTTOB / 325 / 3C
365	60	ICT TOB / 365 / 3C
406	60	ICTTOB / 406 / 4C



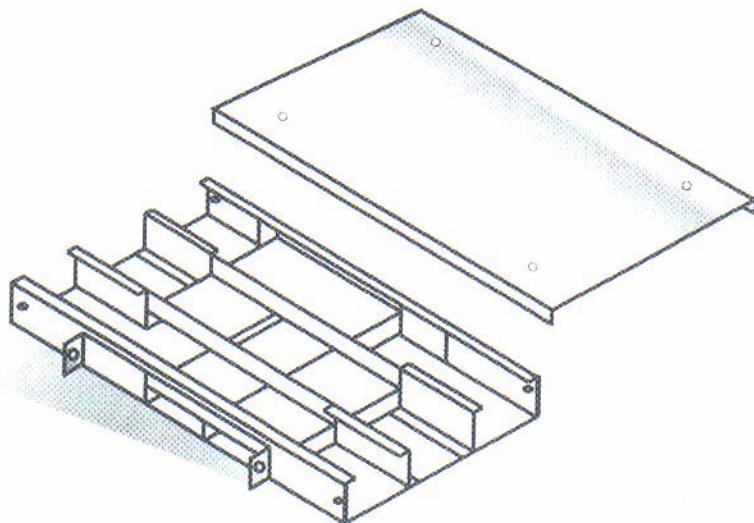
ICTTOB23/C

ACCESSORIES - INCAVITY TRUNKING



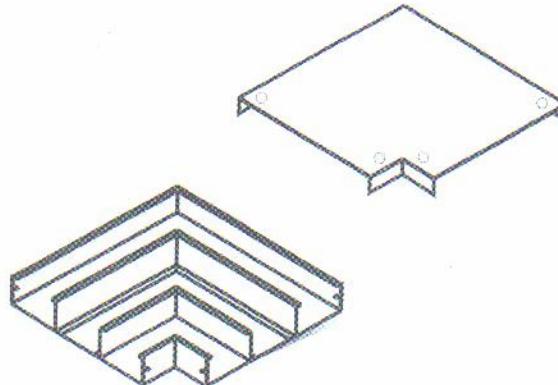
Tee

Width mm	Height mm	Part No.
280	60	ICTT / 280 / 2C
325	60	ICTT / 325 / 3C
365	60	ICTT / 365 / 3C
406	60	ICTT / 406 / 4C



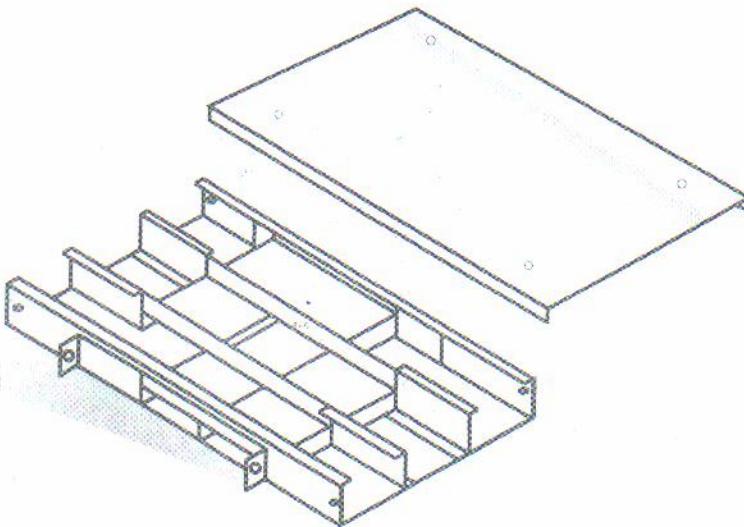
90 Deg. Angle

Width mm	Height mm	Part No.
280	60	ICTA / 280 / 2C
325	60	ICTA / 325 / 3C
365	60	ICTA / 365 / 3C
406	60	ICTA / 406 / 4C

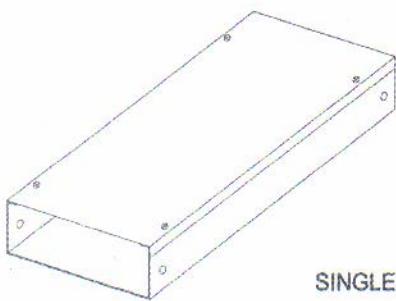


4 Way Cross

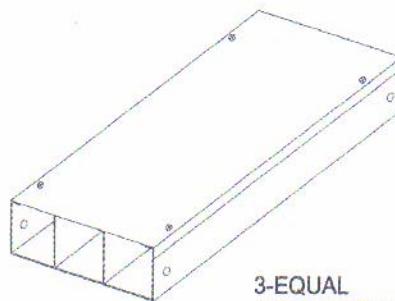
Width mm	Height mm	Part No.
280	60	ICTC / 280 / 2C
325	60	ICTC / 325 / 3C
365	60	ICTC / 365 / 3C
406	60	ICTC / 406 / 4C



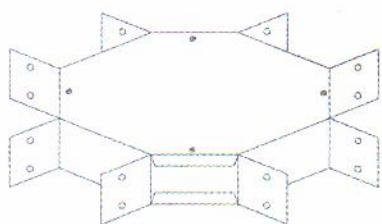
CABLE TRUNKING / WIREWAY OVER FLOOR TRUNKING ACCESSORIES



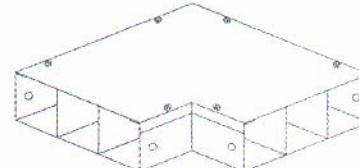
SINGLE COMPARTMENT
OSL-1



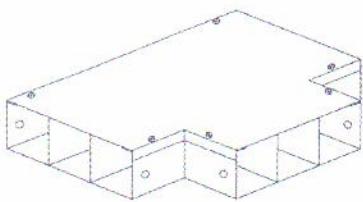
3-EQUAL
COMPARTMENT - OSL 3



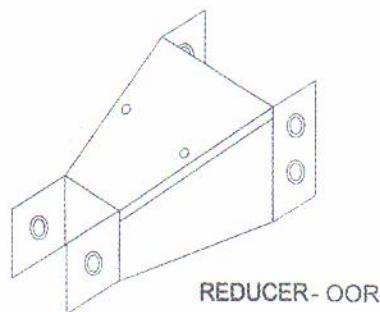
HORIZONTAL CROSS (CH)



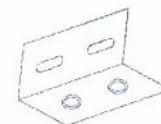
3-COMPARTMENTS 90° BEND
COVER ON TOP - 90 BH



3-COMPARTMENTS Tee PIECES
COVER ON TOP - OTH



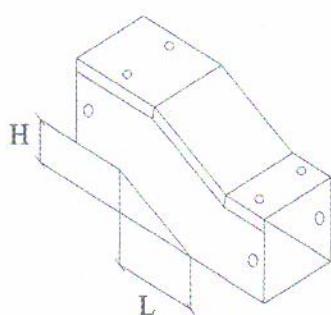
REDUCER - OOR



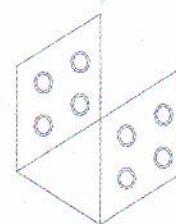
ANGLE CONNECTOR - SCS



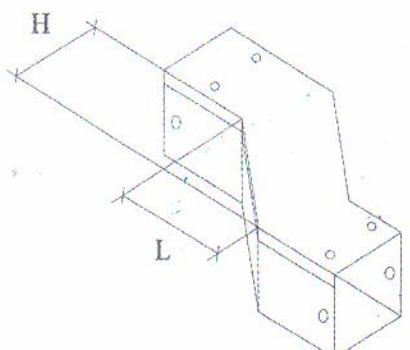
FISH PLATE CONNECTOR



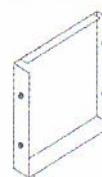
VERTICAL OFFSET - OVO



U-CONNECTOR - OUC



HORIZONTAL OFFSET - OCH



END CAP - OEC

FITTINGS



	Cover on Top	Cover on Inside	Cover on Outside
90° Bend	 CODE: B90° -1	 CODE: B90° -2	 CODE: B90° -3
90° Gusset Bend	 CODE: GB90° -4	 CODE: GB90° -5	 CODE: GB90° -6
45° Bend	 CODE: B45° -7	 CODE: B45° -8	 CODE: B45° -9
Tee-Piece	 CODE: TP -1	 CODE: TP -2	 CODE: TP -3
Gusset T-Piece	 CODE: GTP -4	 CODE: GTP -5	 CODE: GTP -6

AL-FAREED METAL FRAMING SYSTEM



C H A N N E L

The Most Complete Metal Framing System

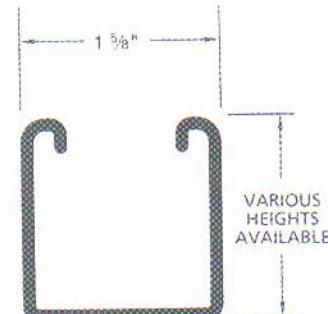
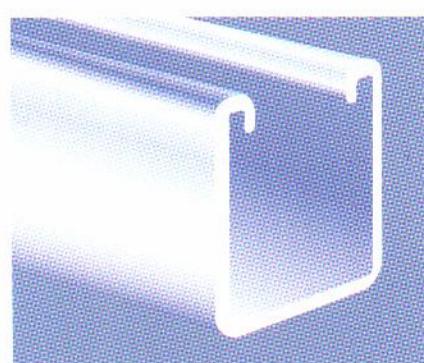


Adjustability, demountability and reusability are engineered into each of our channel series. Each series offers channels of varying depth and gage plus a complete line of fittings and accessories.

F4141-S

1 $\frac{5}{8}$ " (41mm) width

Designed to carry the heavy loads and provide the widest variety of applications, the 1 $\frac{5}{8}$ " series has become the accepted standard for use in mechanical, electrical and general construction applications where supports and attachments must meet the highest strength requirements.

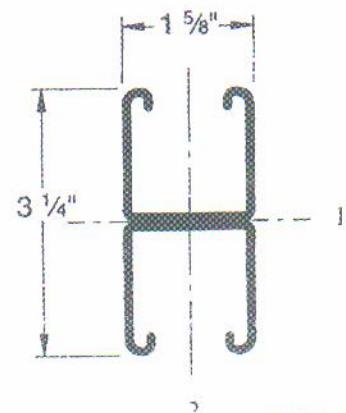
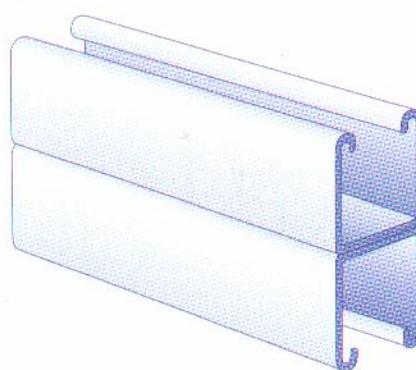


VARIOUS
HEIGHTS
AVAILABLE

F4141-D

1 $\frac{5}{8}$ " + 1 $\frac{5}{8}$ " 41 mm + 41 mm Width BACK TO BACK

Designed to carry the heaviest loads and provide the widest variety of applications. The 1 $\frac{5}{8}$ " series has become the accepted standard for use in mechanical, electrical and general construction applications where supports and attachments must meet the highest strength requirements

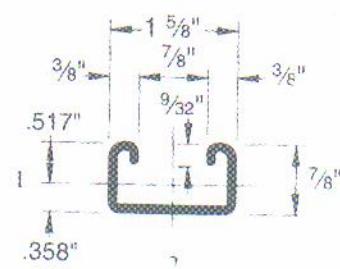
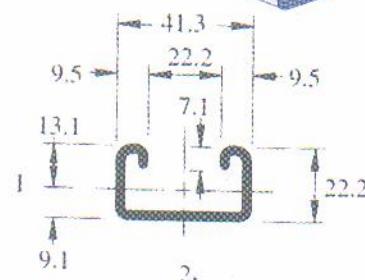
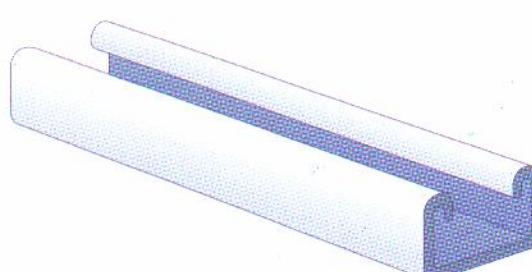


WEIGHT: 380

F2141

1 $\frac{3}{16}$ " (21mm) width

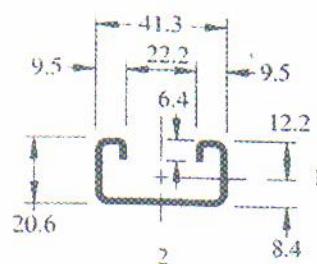
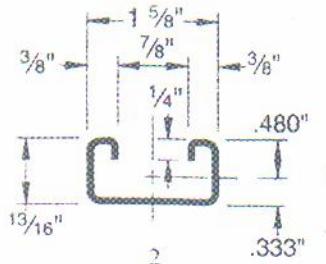
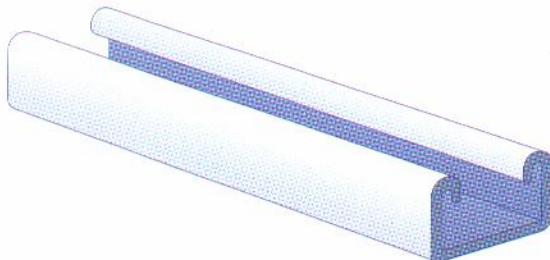
A unique half-size reduction of the 1 $\frac{5}{8}$ " channel-width series, this smaller channel size can be used to carry light loads economically in applications such as instrumentation, retail displays and light-duty laboratory supports. It also provides the flexibility found in all Unistrut framing systems.



F2141 & F2141-D CHANNELS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS



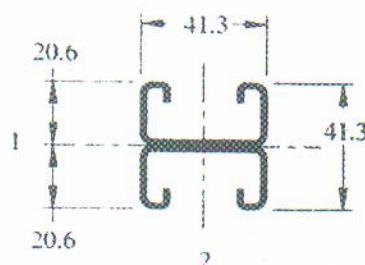
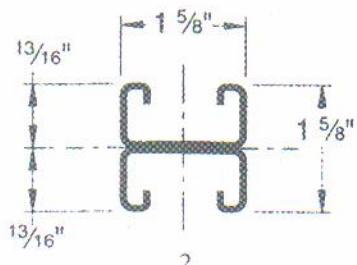
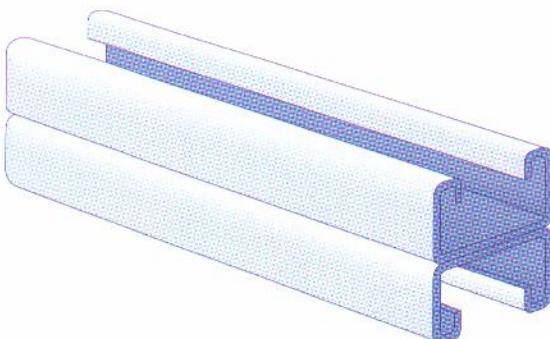
F 2141



Pierced channels are found on pages 60 and 61.

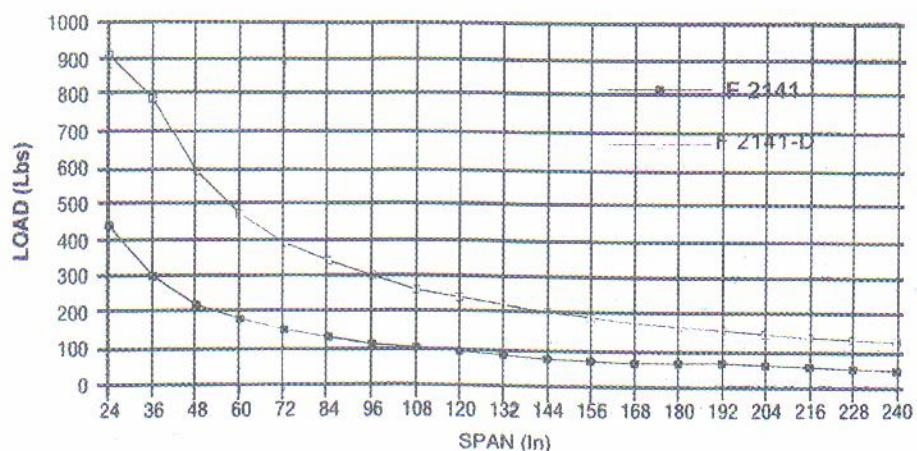
Weight: 97 Lbs/C Ft (144 kg/100 m)

F 2141-D



Weight: 194 Lbs/C Ft (289 kg/100 m)

BEAM LOAD



*Maximum allowable uniform load.

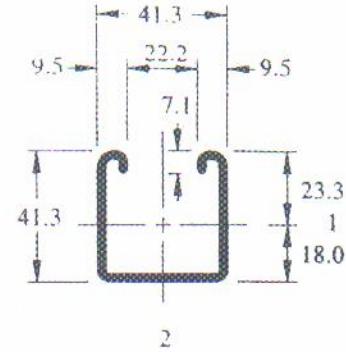
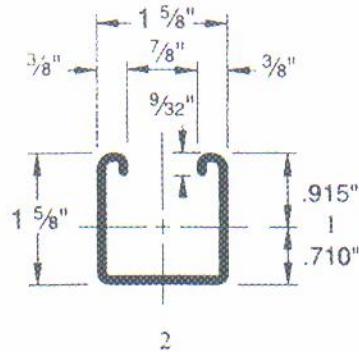
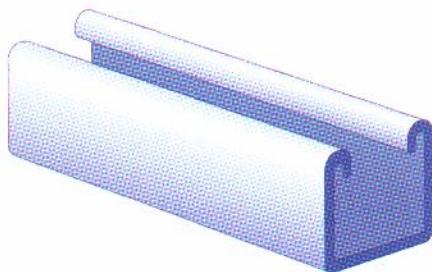
Channel	Weight		Allowable Moment		Material Thickness		Standard Lengths		Finishes				Other Materials	
	Lbs/Ft	kg/m	In-Lb	N·m	In	mm	10'	20'	PL	GR	HG	PG	SS	EA
F2141	.97	1.4	1.330	150	.075	1.9	[filled]	[filled]	[filled]	[filled]	[filled]	[filled]		
F2141-D	1.94	2.9	3.550	400	.075	1.9	[filled]	[filled]	[filled]	[filled]	[filled]	[filled]		

Note: Thickness available in 1.5 mm, 1.9 mm, 2.0 mm, 2.5 mm, & 2.7 mm

F2141 & F2141-D CHANNELS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

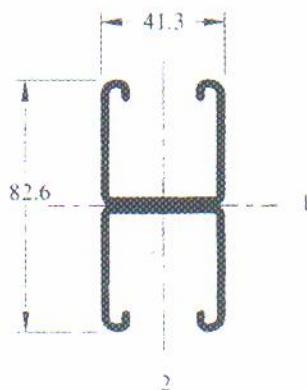
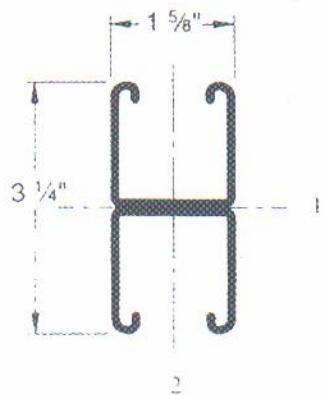
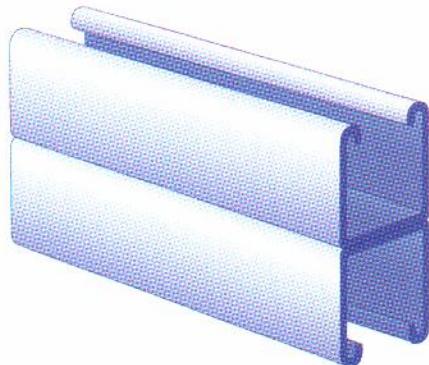


F4141



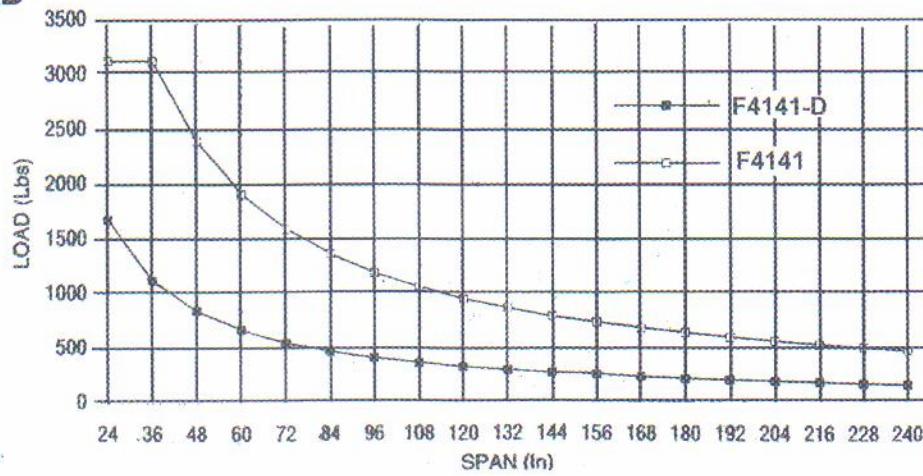
Weight: 190 Lbs/C Ft (283 kg/100 m)

F4141-D



Weight: 380 Lbs/C Ft (566 kg/100 m)

BEAM LOAD*



*Maximum allowable uniform load.

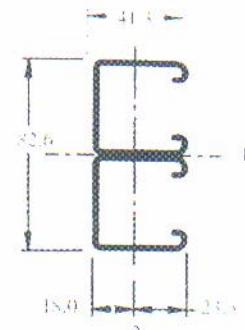
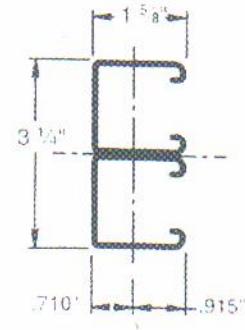
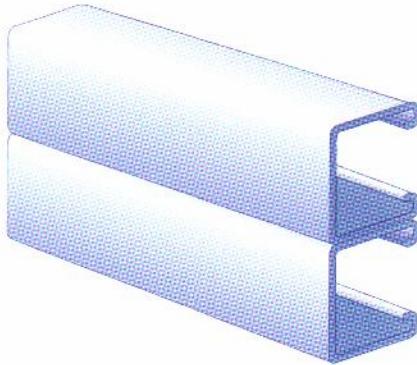
Channel	Weight		Allowable Moment		Material Thickness		Standard Lengths		Finishes				Other Materials	
	Lbs/Ft	kg/m	in-Lb	N·m	In	mm	3 m	6 m	PL	GR	HG	PG	SS	AL
F4141	1.90	2.8	5,080	570	.105	2.7	[filled]	[filled]	[filled]	[filled]	[filled]	[filled]	[filled]	[filled]
F4141-D	3.80	5.7	14,390	1630	.105	2.7	[filled]	[filled]	[filled]	[filled]	[filled]	[filled]	[filled]	[filled]

Note: Thickness available in 1.5 mm, 1.9 mm, 2.0 mm, 2.5 mm, & 2.7 mm

CHANNEL COMBINATIONS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

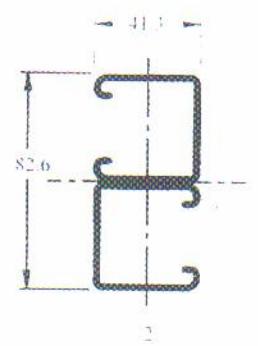
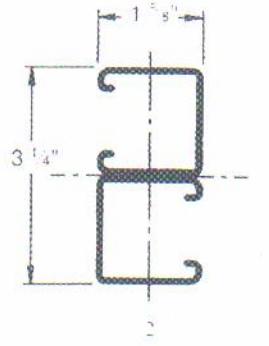
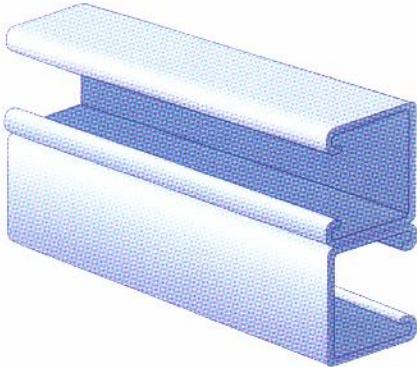


F4141-D3



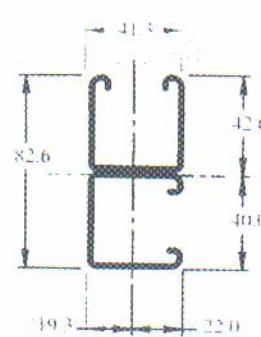
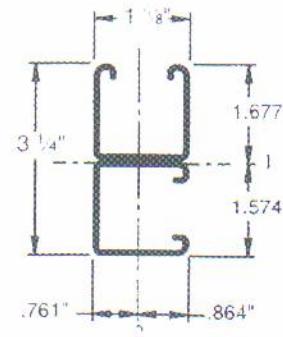
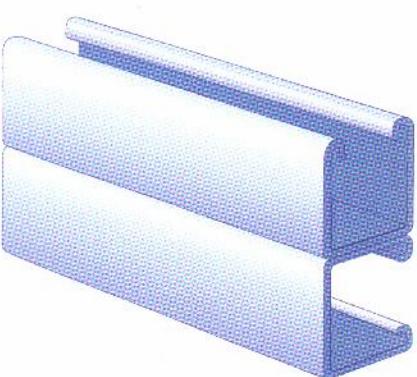
Weight: 380 Lbs/C Ft (566 kg/100 m)

F4141-D2



Weight: 380 Lbs/C Ft (566 kg/100 m)

F4141-D1



Weight: 380 Lbs/C Ft (566 kg/100 m)

Channel	Weight		Allowable Moment		Material Thickness		Standard Lengths		Finishes				Other Materials	
	Lbs/Ft	kg/m	In-Lb	N·m	In	mm	3 mtr	6 mtr	PL	GR	HG	PG	SS	AL
F4141-D3	3.80	5.7	18.660	2110	0.077	2.7	[]	[]	[]	[]	[]	[]		
F4141-D2	3.80	5.7	18.660	2110	0.077	2.7	[]	[]	[]	[]	[]	[]		
F4141-D1	3.80	5.7	15.970	1800	0.077	2.7	[]	[]	[]	[]	[]	[]		

Note: Thickness available in 1.5 mm, 1.9 mm, 2.0 mm, 2.5 mm, & 2.7 mm

BEARING LOADS FOR CHANNEL & COMBINATION FOR 1⁵/₈"(41-MM) WIDTH SERIES CHANNELS



BEARING LOADS ON CHANNELS

	Bearing Length 1 ⁵ / ₈ " (41 mm)		Bearing Length 1 ⁵ / ₈ " (41 mm)		Bearing Length 3 ¹ / ₄ "(92 mm)	
Channel	Maximum Allowable Loads		Maximum Allowable Loads		Maximum Allowable Loads	
	Lbs	kN	Lbs	kN	Lbs	kN
F4141	5000	22.2	3500	15.6	8000	35.6
F4141	3500	15.6	2500	11.1	5500	24.5
F4141	2000	8.9	1500	6.7	3000	13.3
F4141	5 00	22.2	3500	15.6	8000	35.6
F4141	6 00	26.7	4000	17.8	9000	40.0
F2141	2200	9.8	1700	7.6	3500	15.6
F2141	3400	15.1	2600	11.6	4800	21.4

Safety Factor — 2¹/₂

DESIGN LOAD DATA FOR 15/8"(41-MM) WIDTH SERIES CHANNELS



DESIGN LOAD DATA FOR TYPICAL SLOTED CHANNEL CONNECTIONS

90° Fittings (When used in position shown)										
Channel Thickness	F1026		F1026		1325 F2235		F 1458 F 1579		F1346	
	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
12 ga.	1500	6.7	1000	4.4	2000	8.9	1500	6.7	2000	8.9
14 ga.	1000	4.4	650	2.9	2000	8.9	1000	4.4	1500	6.7
16 ga.	750	3.3	500	2.2	1500	6.7	1000	4.4	900	4.0

90° Fittings (When used in position shown)								Flat Plate Fittings		
Channel Thickness	F2484		F1068		F1326		F 1346		F1065	
	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
12 ga.	3000	13.3	500	2.2	500	2.2	1200	5.3	1000	4.4
14 ga.	2000	8.9	500	2.2	500	2.2	1200	5.3	800	3.6
16 ga.	1500	6.7	500	2.2	500	2.2	1000	4.4	600	2.7

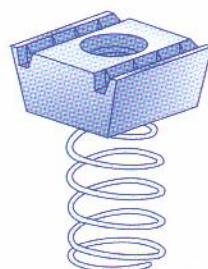
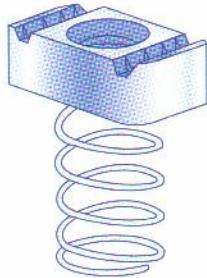
Both ends of beams supported.

Load diagrams indicate up to three design loads, one for 12 gage sections (F4141), one for 14 gage sections (P1100), and one for 16 gage sections (F4141).

Load data is based on F4141 nut and 1/2" bolt.

Safety factor = 2 1/2 based on ultimate strength of connection.

CHANNEL NUTS WITH SPRINGS FOR 1⁵/₈"(41-MM) WIDTH SERIES CHANNELS

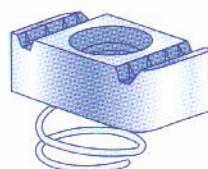
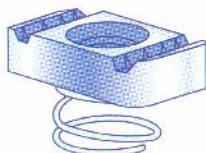


CHANNEL NUTS WITH SPRINGS

Size & Thread	Weight/C	
	Lbs	kg
#8 - 32	7	3.2
#10 - 24	7	3.2
1/4" - 20	7	3.2
5/16" - 18	6	2.7
3/8" - 16	10	4.5
7/16" - 14	9	4.1
1/2" - 13	12	5.4

5/8" - 11	21	9.5
3/4" - 10	21	9.5
7/8" - 9	21	9.5

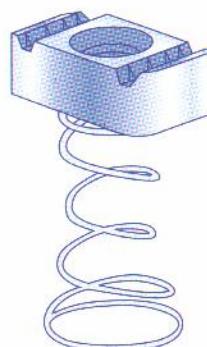
CHANNEL NUTS WITH SPRINGS



Size & Thread	Weight/C	
	Lbs	kg
#8 - 32	7	3.2
#10 - 24	7	3.2
1/4" - 20	7	3.2
5/16" - 18	6	2.7
3/8" - 16	9	4.1
7/16" - 14	9	4.1
1/2" - 13	8	3.6

5/8" - 11	11	5.0
3/4" - 10	11	5.0

CHANNEL NUTS WITH SPRINGS

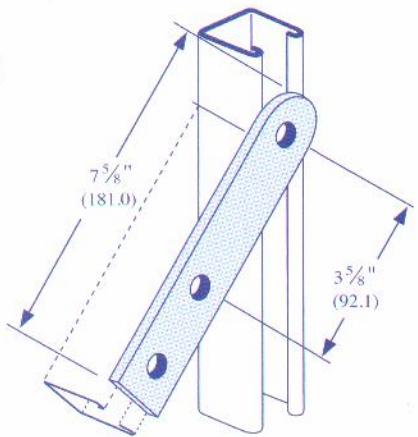


Size & Thread	Weight/C	
	Lbs	kg
#8 - 32	7	3.2
#10 - 24	7	3.2
1/4" - 20	7	3.2
5/16" - 18	6	2.7
3/8" - 16	10	4.5
7/16" - 14	10	4.5
1/2" - 13	12	5.4

FLAT PLATE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

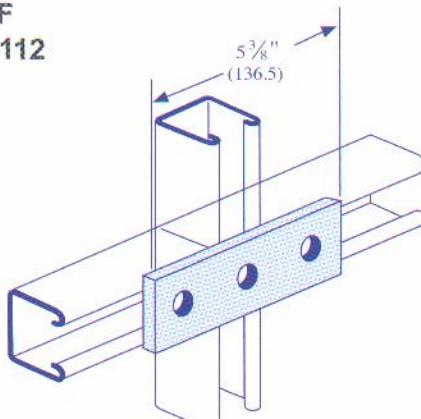


**FPF
41 - 111**



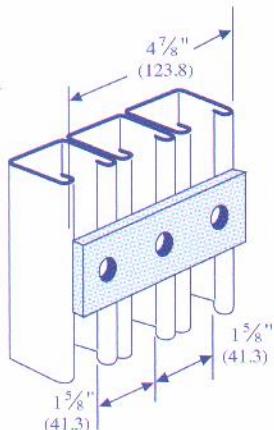
Wt/C 75 Lbs (34.0 kg)

**FPF
41-112**



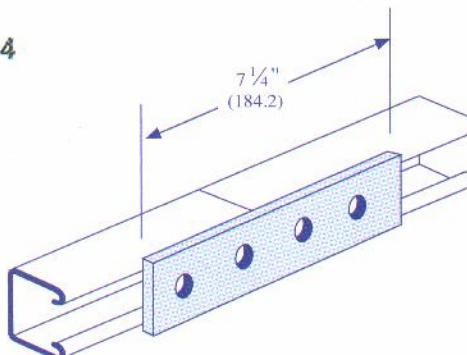
Wt/C 56 Lbs (25.4 kg)

**FPF
41 -113**



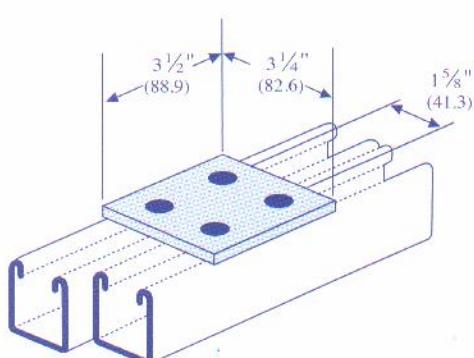
Wt/C 50 Lbs (22.7 kg)

**FPF
41-114**



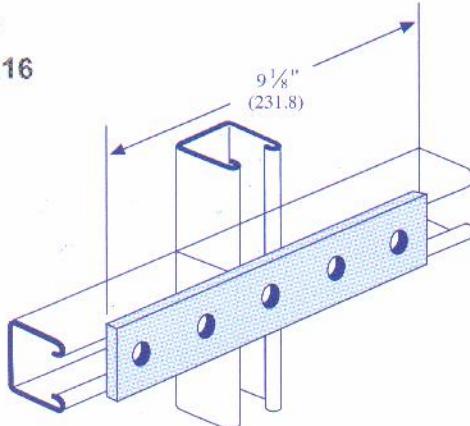
Wt/C 78 Lbs (35.4 kg)

**FPF
41-115**



Wt/C 73 Lbs (33.1 kg)

**FPF
41-116**



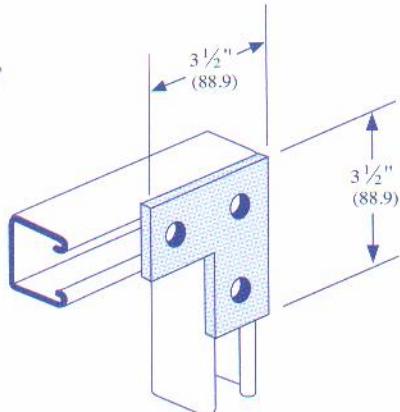
Wt/C 94 Lbs (42.6 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

FLAT PLATE FITTINGS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

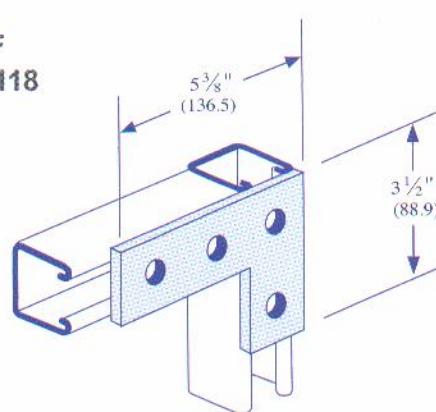


**FPF
41-117**



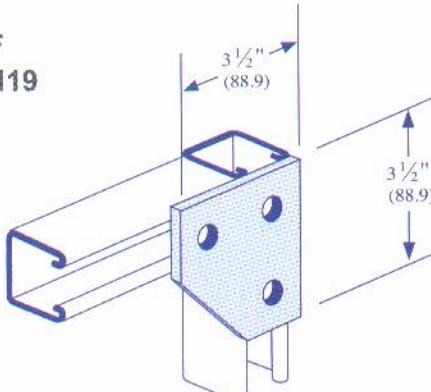
Wt/C 58 Lbs (26.3 kg)

**FPF
41-118**



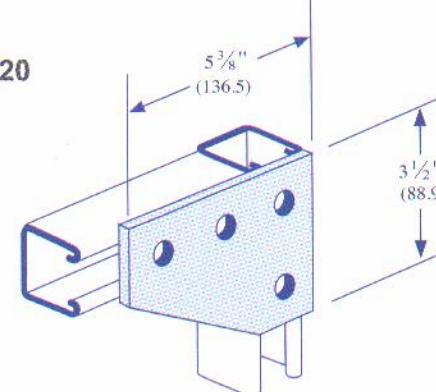
Wt/C 80 Lbs (36.3 kg)

**FPF
41-119**



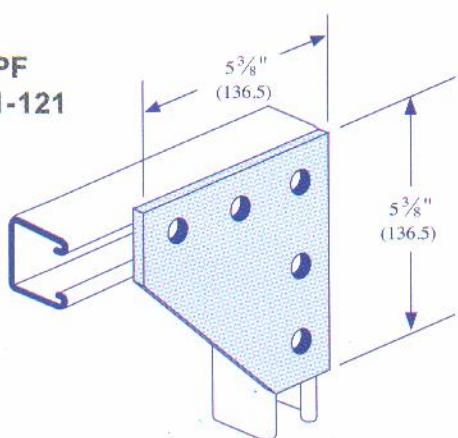
Wt/C 70 Lbs (31.8 kg)

**FPF
41-120**



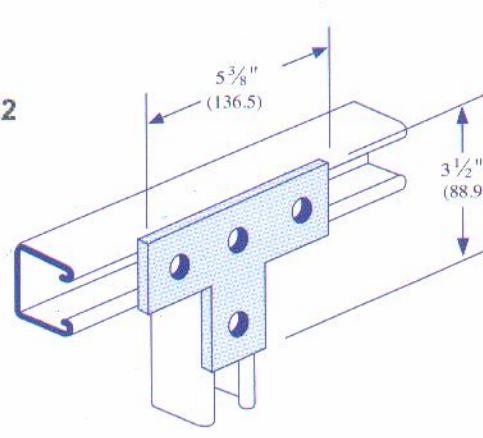
Wt/C 105 Lbs (47.6 kg)

**FPF
41-121**



Wt/C 150 Lbs (68.0 kg)

**FPF
41-122**



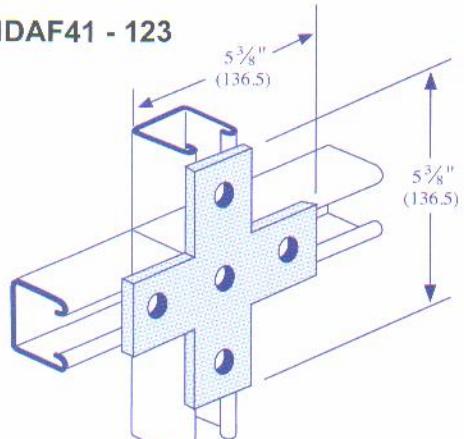
Wt/C 80 Lbs (36.3 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	15/8" 41.3 mm	1/4" 6.4 mm

FLAT PLATE FITTINGS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

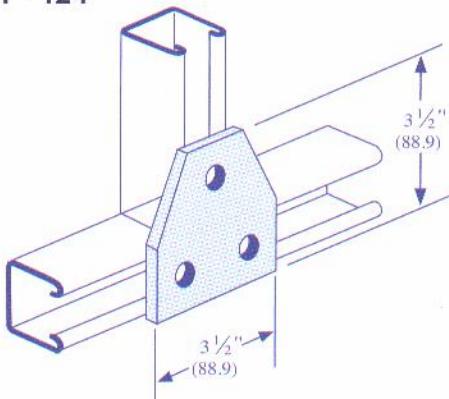


NDAF41 - 123



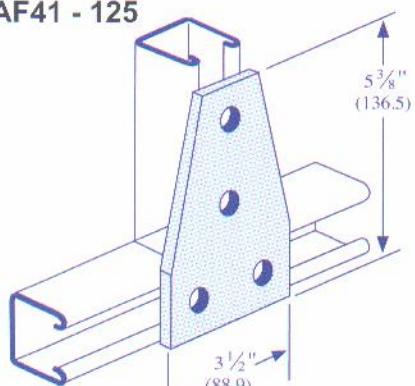
Wt/C 105 Lbs (47.6 kg)

NDAF41 - 124



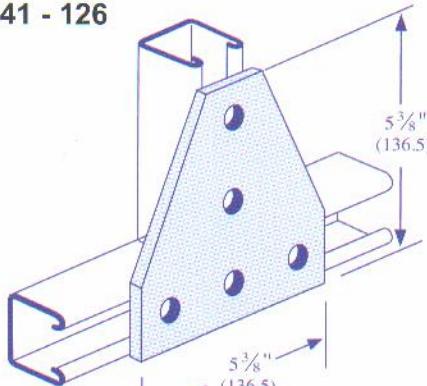
Wt/C 70 Lbs (31.8 kg)

NDAF41 - 125



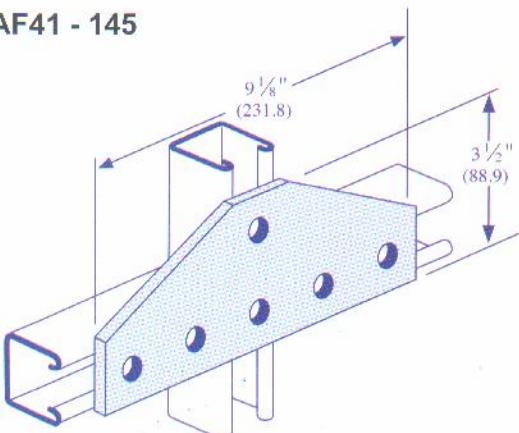
Wt/C 105 Lbs (47.6 kg)

NDAF41 - 126



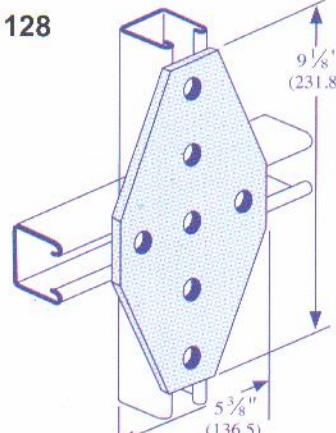
Wt/C 148 Lbs (67.1 kg)

NDAF41 - 145



Wt/C 176 Lbs (79.8 kg)

NDAF41 - 128



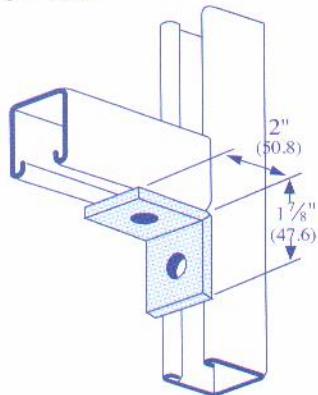
Wt/C 240 Lbs (108.9 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

NINETY DEGREE ANGLE FITTINGS FOR 1 $\frac{5}{8}$ "(41-MM) WIDTH SERIES CHANNELS

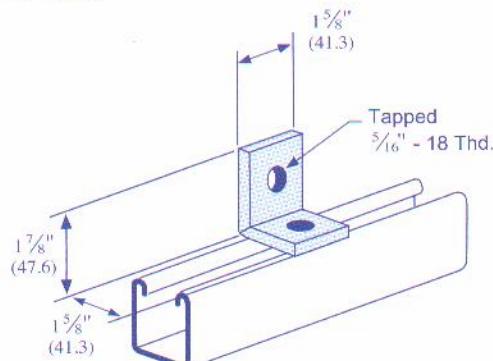


NDAF41 - 129



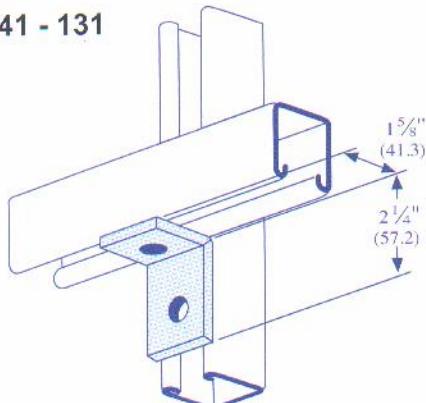
Wt/C 38 Lbs (17.2 kg)

NDAF41 - 130



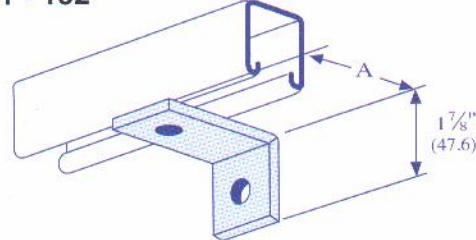
Wt/C 34 Lbs (15.4 kg)

NDAF41 - 131



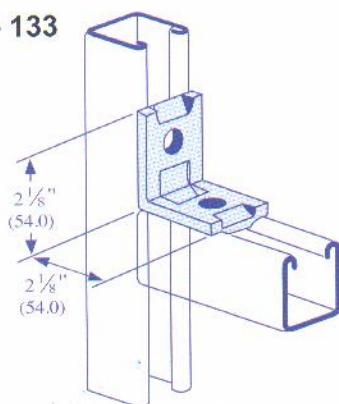
Wt/C 38 Lbs (17.2 kg)

NDAF41 - 132



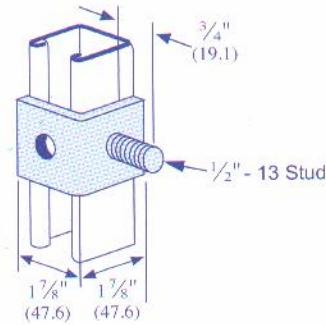
Part Number	'A' Dimension		Weight/C	
	In	mm	Lbs	kg
P1281	3	76.2	49	22.2
P1282	3 1/2	88.9	54	24.5
P1283	4	101.9	61	27.7

NDAF41 - 133



Wt/C 40 Lbs (18.1 kg)

NDAF41 - 134



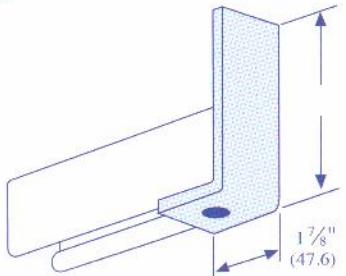
Wt/C 45 Lbs (20.4 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

NINETY DEGREE ANGLE FITTINGS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

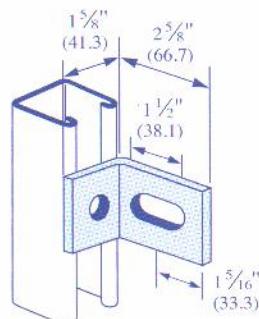


NDAF41 - 135



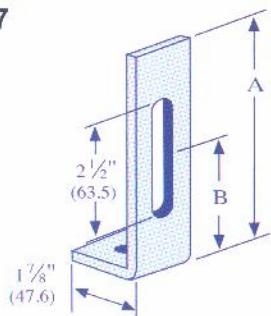
Part Number	"A" Dimension		Weight/C	
	In	mm	Lbs	kg
P1538 A	3 5/8	98.4	61	27.2
P1538 B	5 5/8	149.2	84	38.1
P1538 C	7 5/8	200.0	107	45.5
P1538 D	9 5/8	250.8	130	59.0

NDAF41 - 136



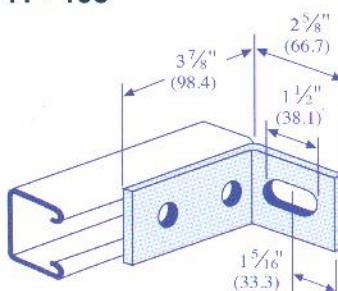
Wt/C 38 Lbs (17.2 kg)

NDAF41 - 137



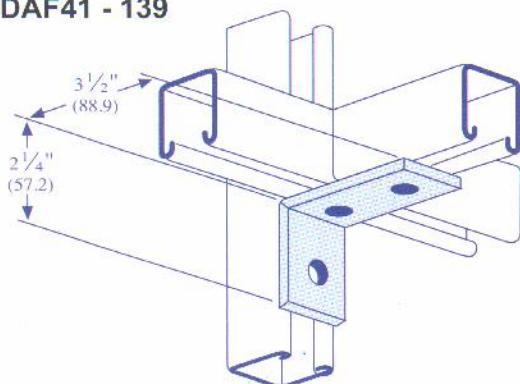
Part Number	"A"		"B"		Weight/C	
	In	mm	In	mm	Lbs	kg
P1498	4 7/8	123.8	2 1/2	63.5	65	29.5
P1499	6 5/8	174.6	4 1/2	114.3	85	38.6

NDAF41 - 138



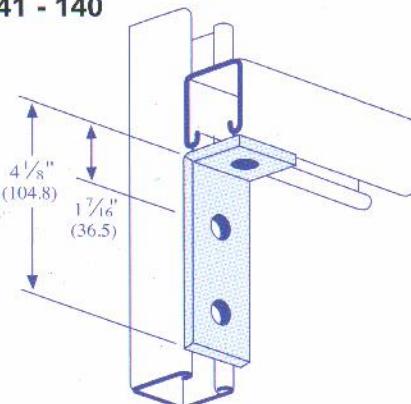
Wt/C 66 Lbs (29.9 kg)

NDAF41 - 139



Wt/C 58 Lbs (26.3 kg)

NDAF41 - 140



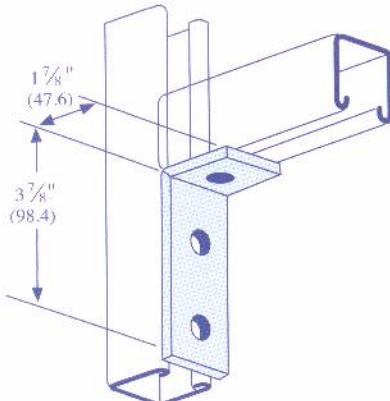
Wt/C 58 Lbs (26.3 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

NINETY DEGREE ANGLE FITTINGS FOR 1 $\frac{5}{8}$ "(41-MM) WIDTH SERIES CHANNELS

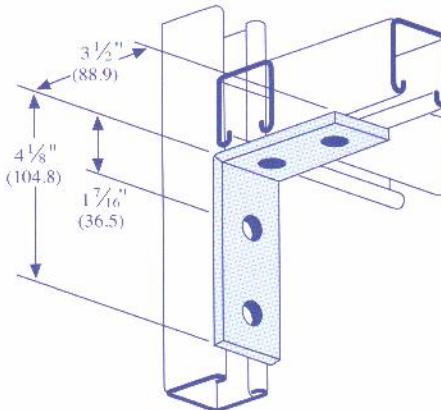


NDAF41 - 141



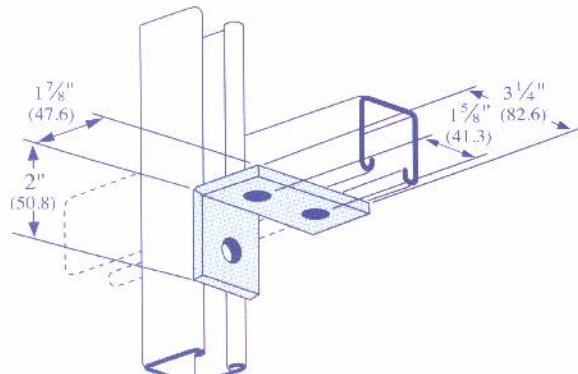
Wt/C 58 Lbs (26.3 kg)

NDAF41 - 142



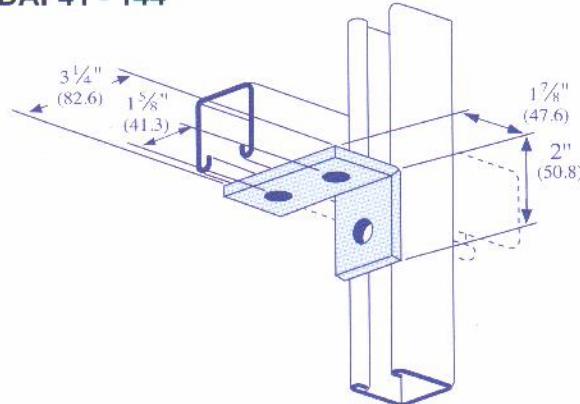
Wt/C 78 Lbs (35.4 kg)

NDAF41 - 143



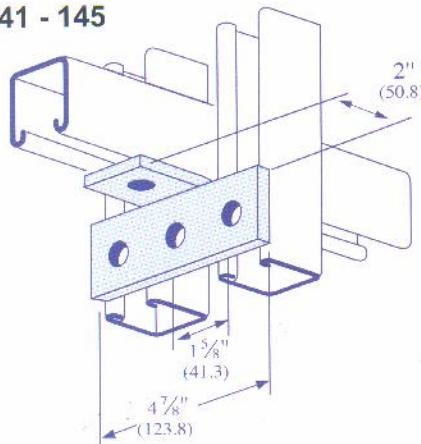
Wt/C 55 Lbs (24.9 kg)

NDAF41 - 144



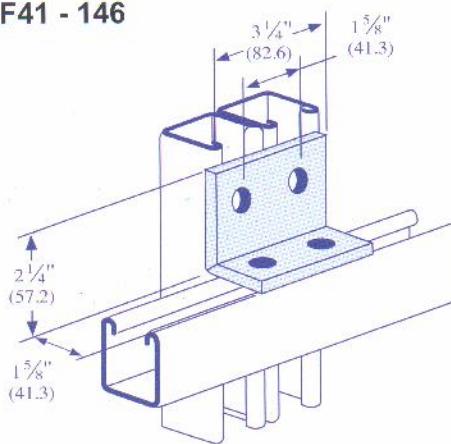
Wt/C 55 Lbs (24.9 kg)

NDAF41 - 145



Wt/C 71 Lbs (32.2 kg)

NDAF41 - 146



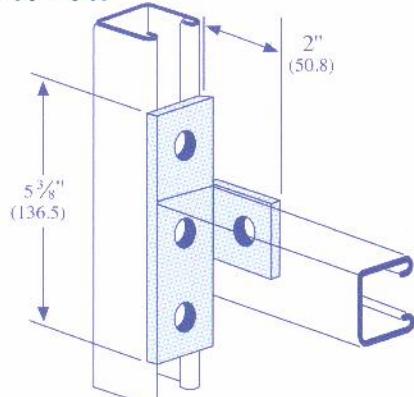
Wt/C 75 Lbs (34.0 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 $\frac{5}{8}$ " 41.3 mm	1/4" 6.4 mm

NINETY DEGREE ANGLE FITTINGS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

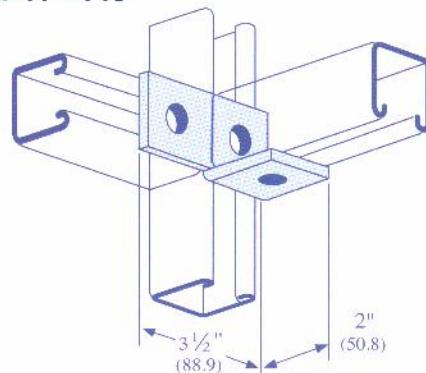


NDAF41 - 147



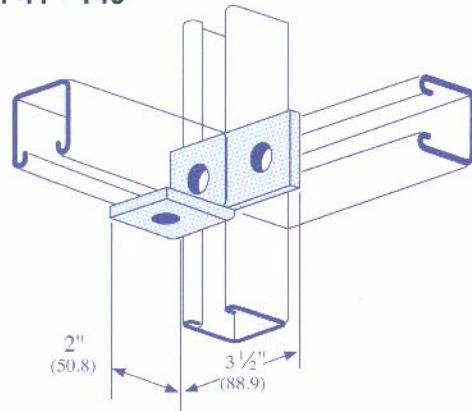
Wt/C 80 Lbs (36.3 kg)

NDAF41 - 148



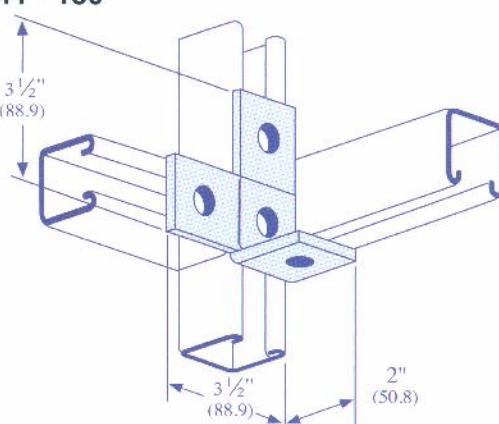
Wt/C 58 Lbs (26.4 kg)

NDAF41 - 149



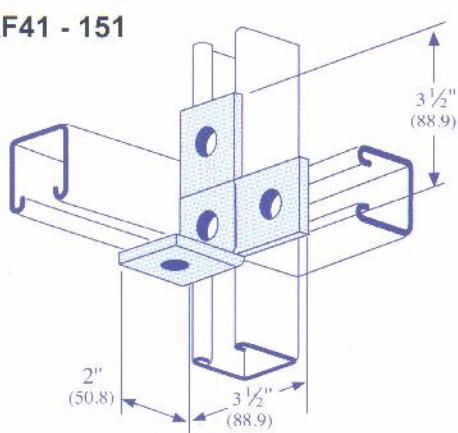
Wt/C 58 Lbs (26.3 kg)

NDAF41 - 150



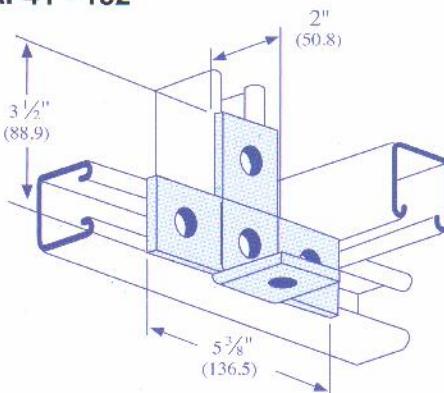
Wt/C 55 Lbs (36.3 kg)

NDAF41 - 151



Wt/C 80 Lbs (36.3 kg)

NDAF41 - 152



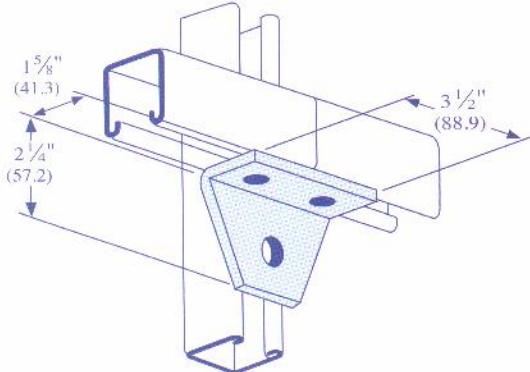
Wt/C 105 Lbs (47.6 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

NINETY DEGREE ANGLE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

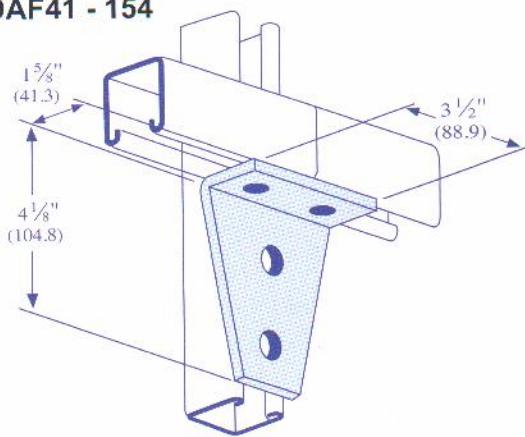


NDAF41 - 153



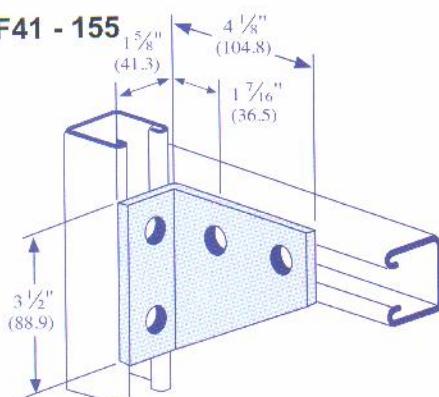
Wt/C 70 Lbs (31.8 kg)

NDAF41 - 154



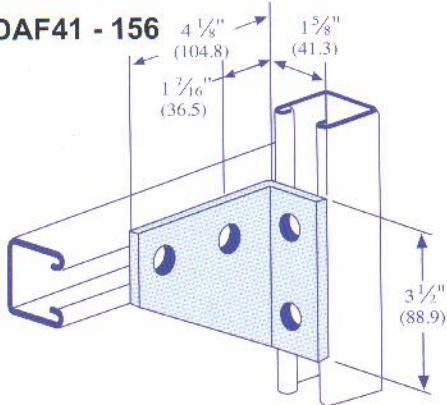
Wt/C 105 Lbs (47.6 kg)

NDAF41 - 155



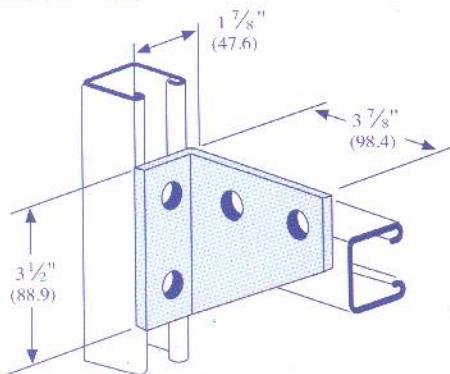
Wt/C 105 Lbs (47.6 kg)

NDAF41 - 156



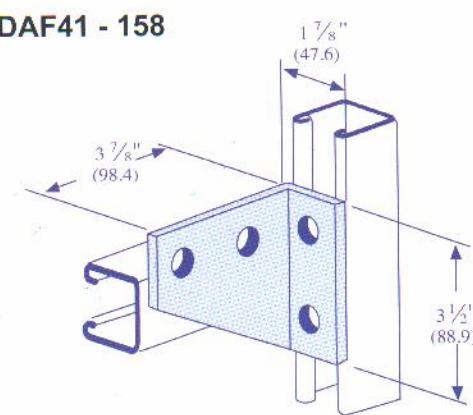
Wt/C 105 Lbs (47.6 kg)

NDAF41 - 157



Wt/C 101 Lbs (45.8 kg)

NDAF41 - 158



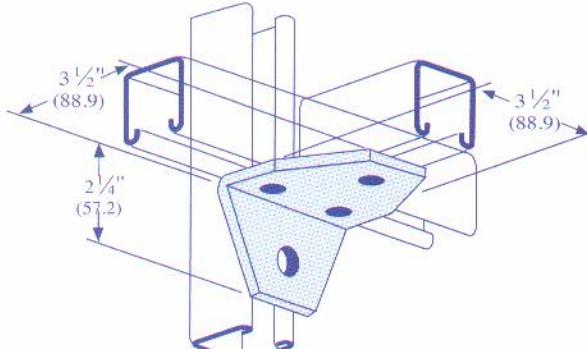
Wt/C 101 Lbs (45.8 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

NINETY DEGREE ANGLE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

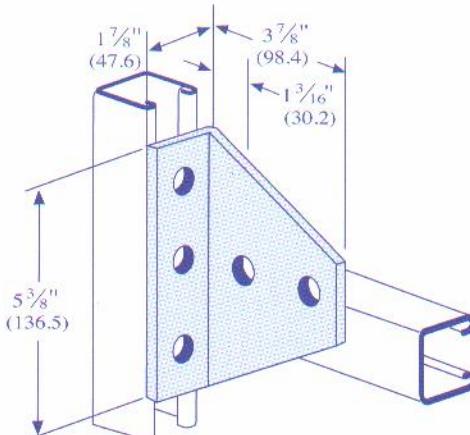


NDAF41 - 159



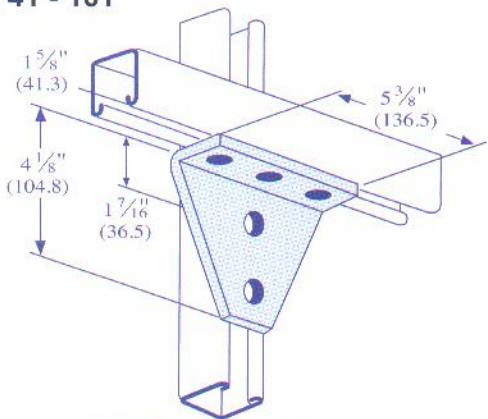
Wt/C 103 Lbs (46.7 kg)

NDAF41 - 160



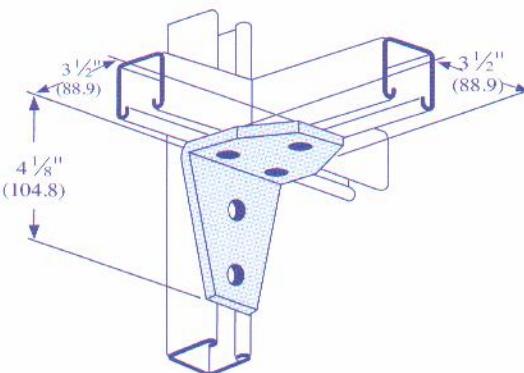
Wt/C 154 Lbs (69.9 kg)

NDAF41 - 161



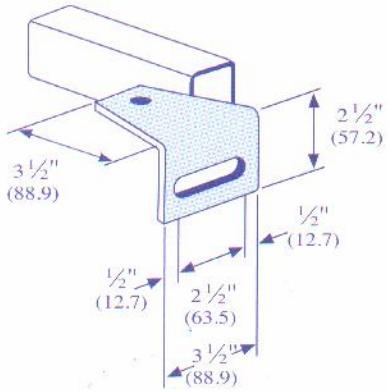
Wt/C 154 Lbs (69.9 kg)

NDAF41 - 162



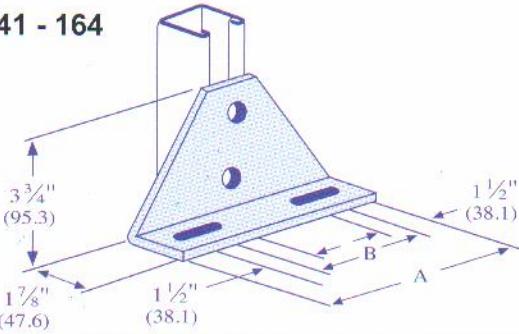
Wt/C 135 Lbs (61.2 kg)

NDAF41 - 163



Wt/C 97 Lbs (44.0 kg)

NDAF41 - 164



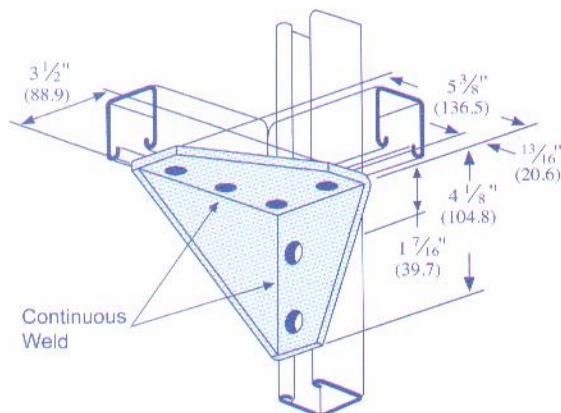
Part Number	"A"		"B"		Weight/C	
	In	mm	In	mm	Lbs	kg
P1130	6 5/8	168.3	4	101.6	190	86.2
P1131	8 5/8	219.1	6	152.4	242	109.8

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" (41.3 mm)	1/4" (6.4 mm)

NINETY DEGREE ANGLE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

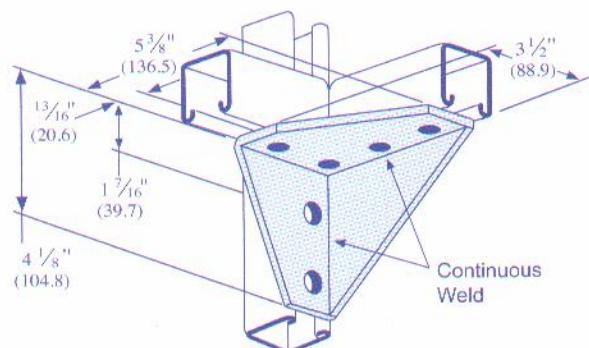


NDAF41 - 165



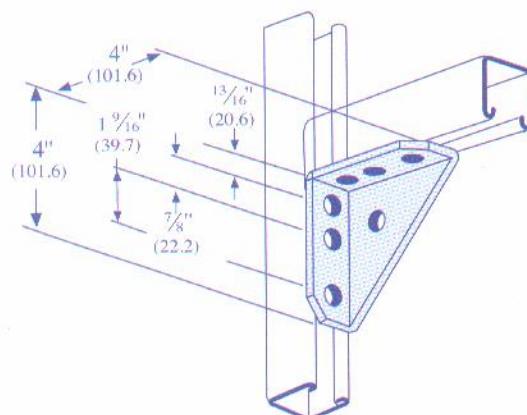
Wt/C 230 Lbs (104.3 kg)

NDAF41 - 166



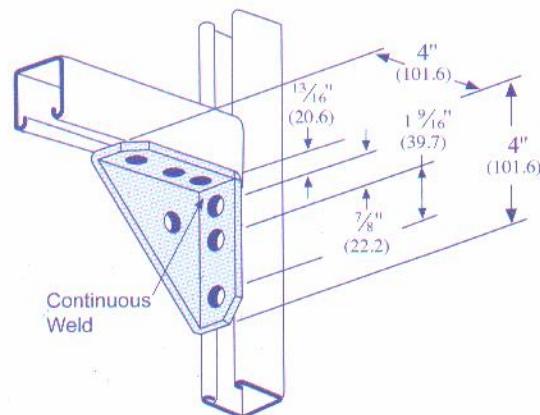
Wt/C 230 Lbs (104.3 kg)

NDAF41 - 167



Wt/C 134 Lbs (60.8 kg)

NDAF41 - 168



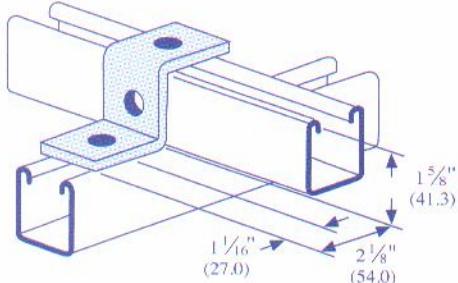
Wt/C 134 Lbs (60.8 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

"Z" SHAPE FITTINGS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

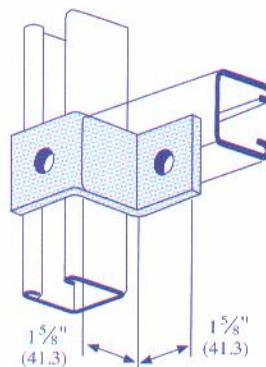


ZSF41 - 169



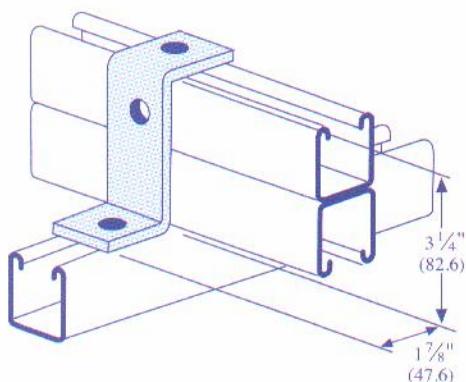
Wt/C 55 Lbs (24.9 kg)

ZSF41 - 170



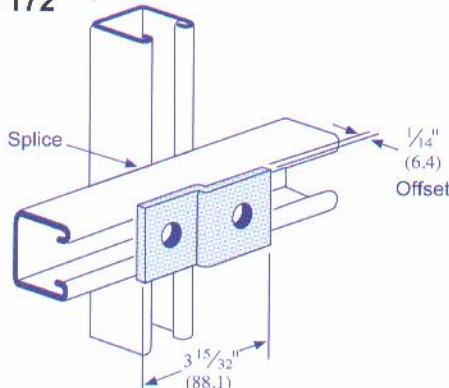
Wt/C 55 Lbs (24.9 kg)

ZSF41 - 171



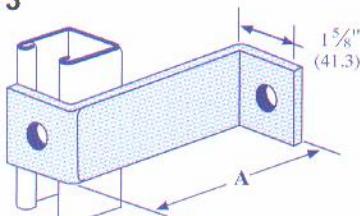
Wt/C 70 Lbs (31.8 kg)

ZSF41 - 172



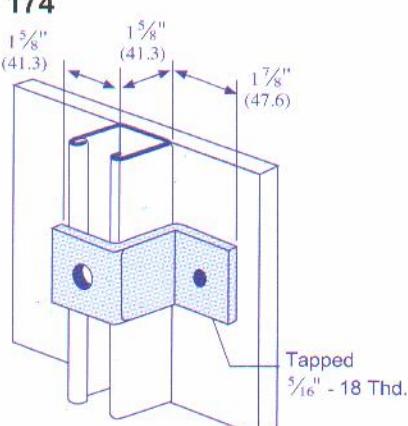
Wt/C 38 Lbs 17.2 kg)

NDAF41 - 173



Part Number	"A" Dimension		Weight/C	
	In	mm	Lbs	kg
4	101.6	2600	81	36.7
5	127.0	3200	92	41.7
6	152.4	3800	104	47.2
7	177.8	4400	115	52.2
8	203.2	5000	127	57.6

NDAF41 - 174



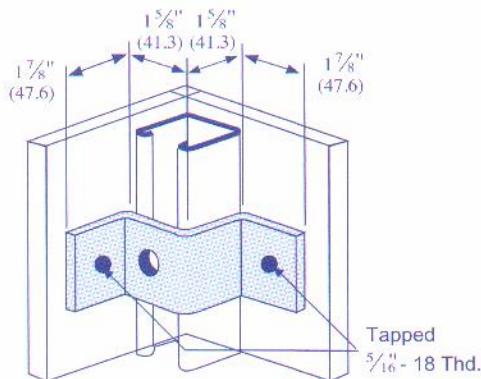
Wt/C 54 Lbs (24.5 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

"Z" SHAPE FITTINGS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

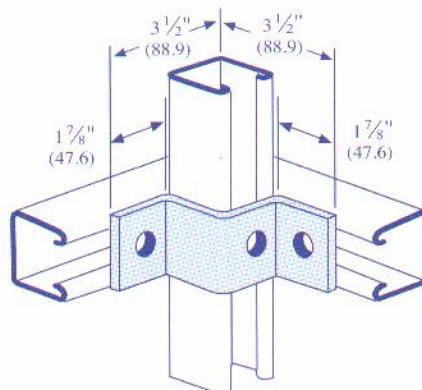


ZSF41 - 175



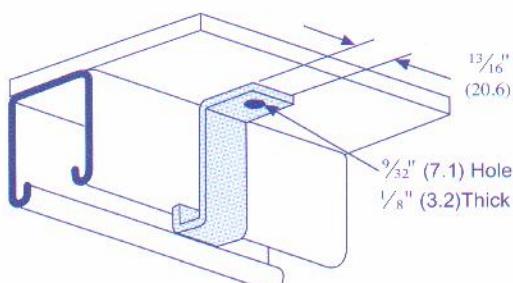
Wt/C 70 Lbs (31.8 kg)

ZSF41 - 176



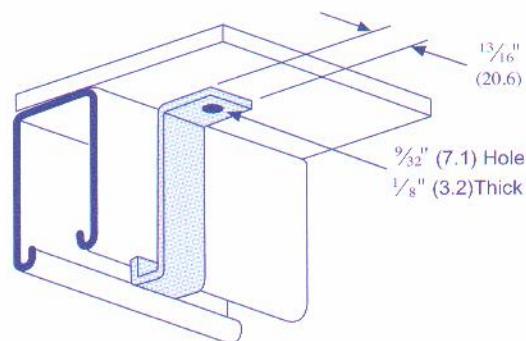
Wt/C 70 Lbs (31.8 kg)

ZSF41 - 210



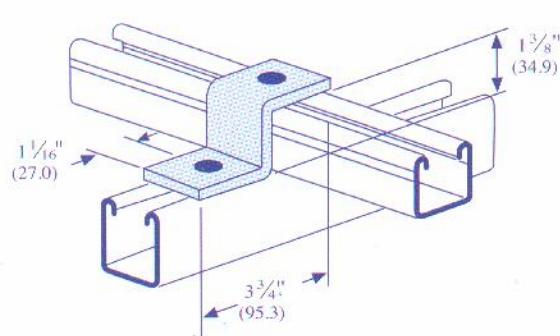
Wt/C 9 Lbs (4.1 kg)

ZSF41 - 178



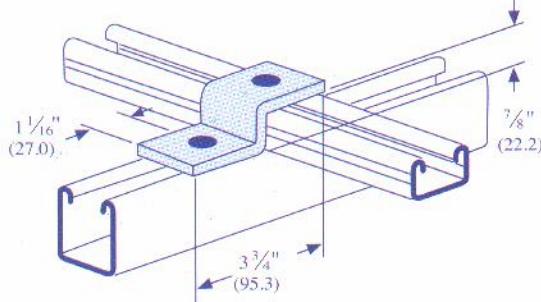
Wt/C 11 Lbs (5.0 kg)

ZSF41 - 179



Wt/C 53 Lbs (24.0 kg)

ZSF41 - 180



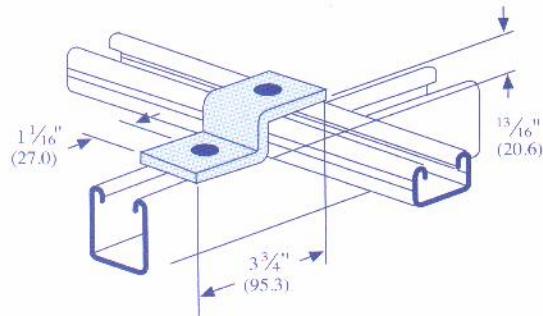
Wt/C 47 Lbs (21.3 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" (41.3 mm)	1/4" (6.4 mm)

**"Z" & "U" SHAPE FITTINGS
FOR 15/8"(41-MM) WIDTH SERIES CHANNELS**

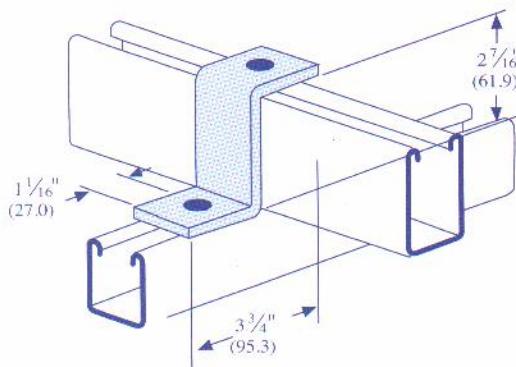


ZSF41 - 181



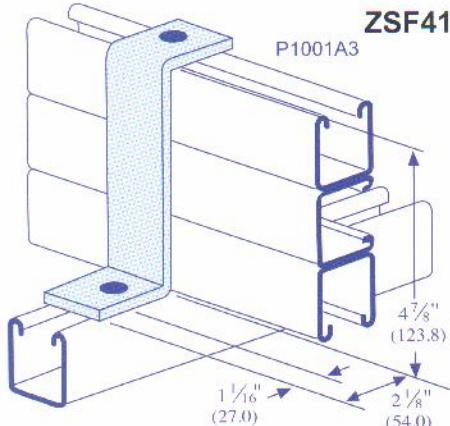
Wt/C 47 Lbs (21.3 kg)

ZSF41 - 182



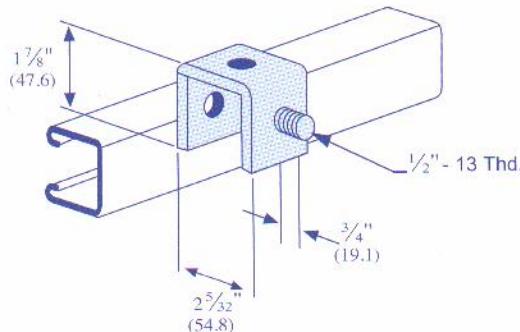
Wt/C 67 Lbs (30.4 kg)

ZSF41 - 183



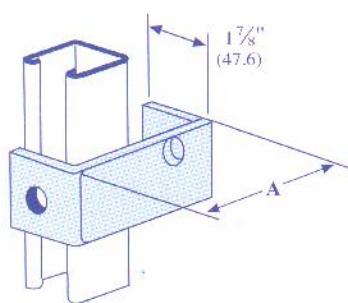
Wt/C 93 Lbs (42.2 kg)

USF41 - 184



Wt/C 63 Lbs 28.6 kg)

USF41 - 185



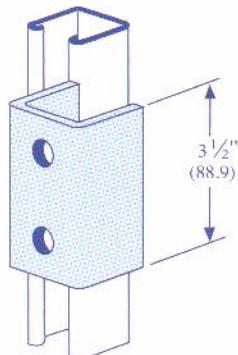
Part Number	"A" Dimension		Weight/C	
	In	mm	Lbs	kg
4	101.6	78	35.4	
5	127.0	89	40.4	
6	152.4	101	45.8	
7	177.8	112	50.8	
8	203.2	124	56.2	

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

**"U" SHAPE FITTING
FOR 15/8"(41-MM) WIDTH SERIES CHANNELS**

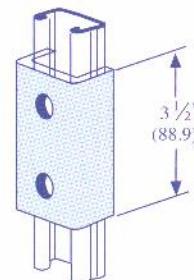


NDAF41 - 186



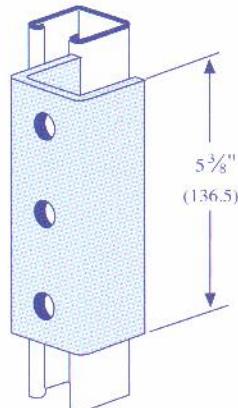
Wt/C 128 Lbs (58.1 kg)

NDAF41 - 187



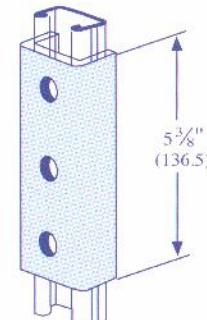
Wt/C 85 Lbs (38.6 kg)

NDAF41 - 188



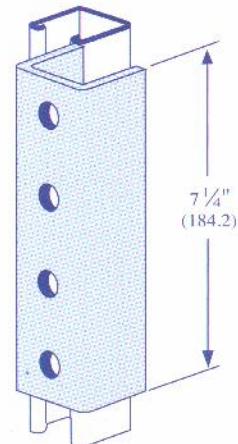
Wt/C 197 Lbs (89.4 kg)

NDAF41 - 189



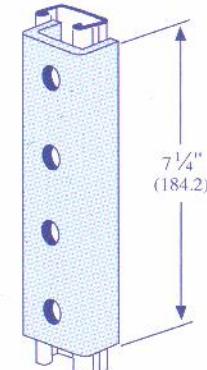
Wt/C 130 Lbs (59.0 kg)

NDAF41 - 190



Wt/C 265 Lbs (120.2 kg)

NDAF41 - 191



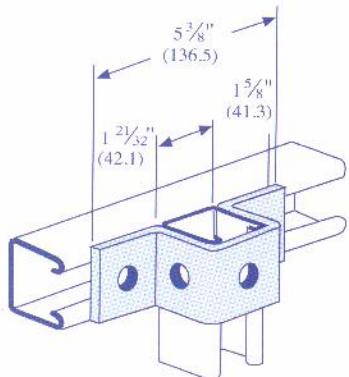
Wt/C 176 Lbs (79.8 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

"U" SHAPE FITTINGS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

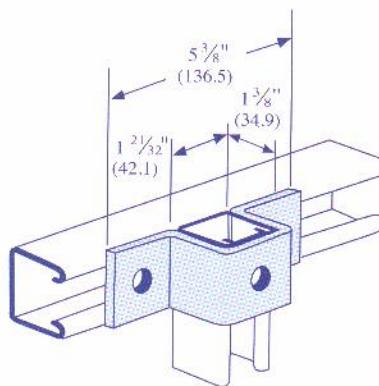


USF41 - 192



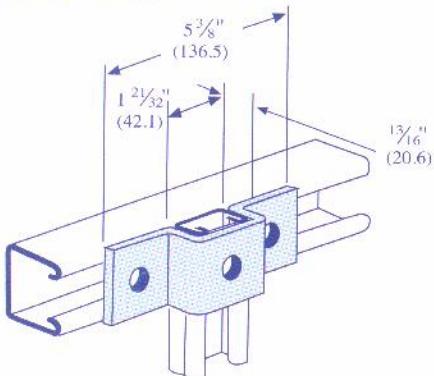
Wt/C 88 Lbs (39.9 kg)

USF41 - 193



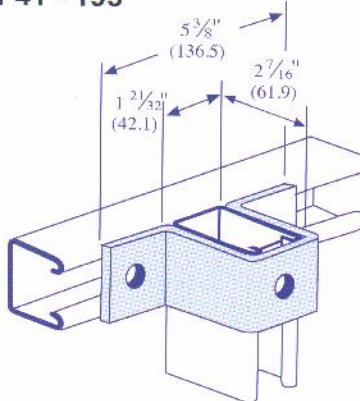
Wt/C 84 Lbs (38.1 kg)

USF41 - 194



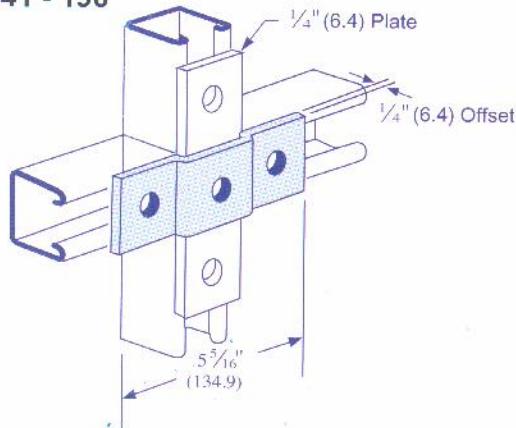
Wt/C 71 Lbs (32.2 kg)

USF41 - 195



Wt/C 108 Lbs (49.0 kg)

USF41 - 196



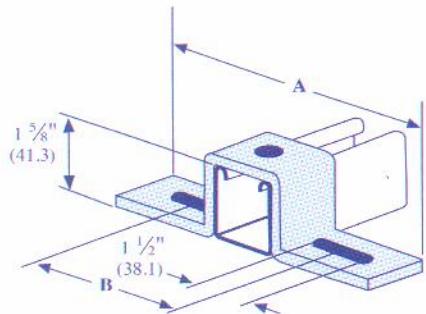
Wt/C 58 Lbs (26.3 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

"U" SHAPE FITTING FOR 1 $\frac{5}{8}$ "(41-MM) WIDTH SERIES CHANNELS

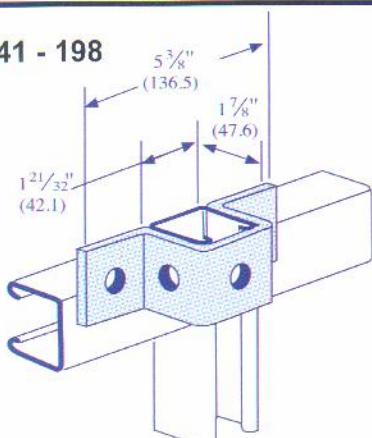


USF41 - 197



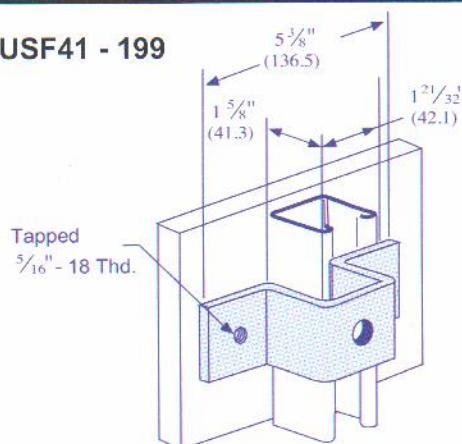
Part Number	"A"		"B"		Weight/C	
	In	mm	In	mm	Lbs	kg
	7 $\frac{1}{4}$	184.2	4 $\frac{1}{3}$	104.8	105	47.6
	8 $\frac{1}{2}$	215.9	5 $\frac{1}{6}$	136.5	120	54.4
	10 $\frac{1}{8}$	263.5	7 $\frac{1}{6}$	184.2	130	59.0

USF41 - 198



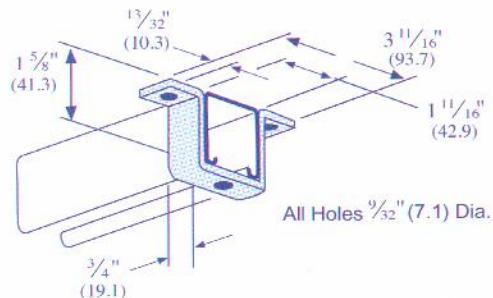
Wt/C 95Lbs (43.1 kg)

USF41 - 199



Wt/C 88 Lbs (39.9 kg)

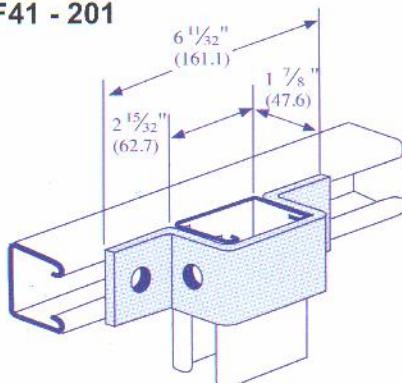
USF41 - 200



Material : $\frac{1}{8}$ " (3.2) thick.

Wt/C 18 Lbs (8.2 kg)

USF41 - 201



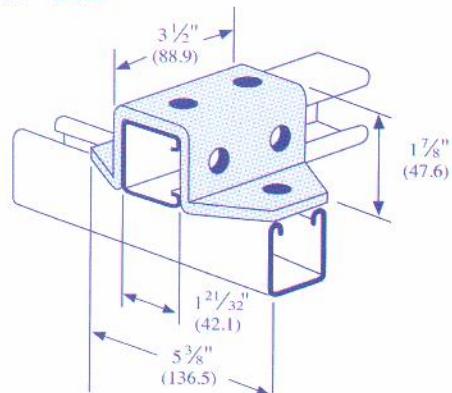
Wt/C 97 Lbs (44.0 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 $\frac{5}{8}$ " 41.3 mm	1/4" 6.4 mm

"U" AND WING SHAPE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS

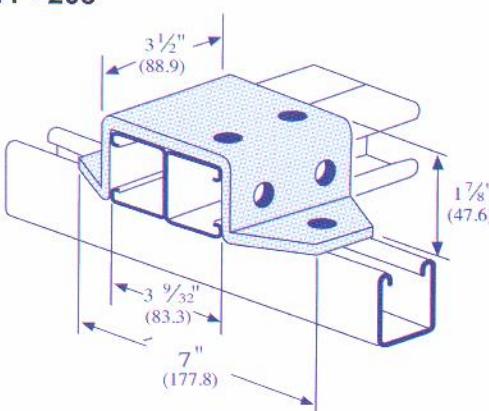


USF41 - 202



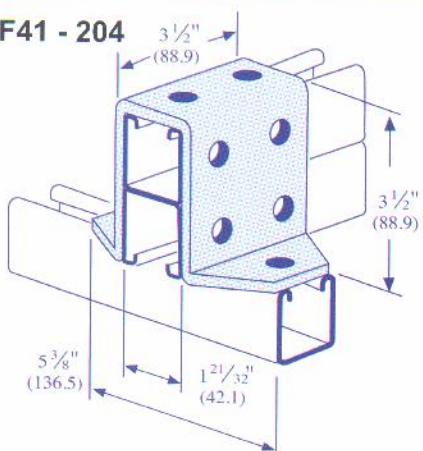
Wt/C 171 Lbs (77.6 kg)

USF41 - 203



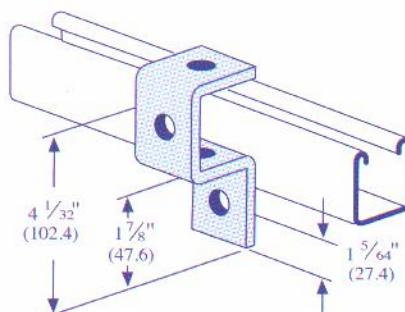
Wt/C 209 Lbs (94.8 kg)

USF41 - 204



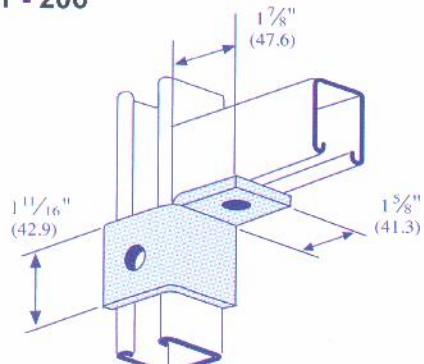
Wt/C 257 Lbs (116.6 kg)

USF41 - 205



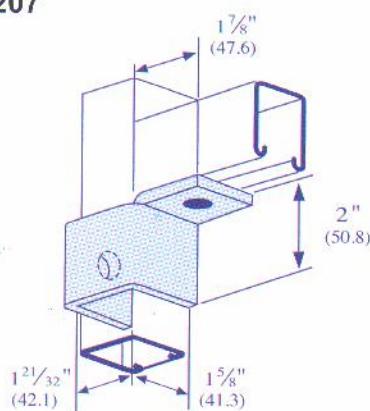
Wt/C 76 Lbs (34.5 kg)

USF41 - 206



Wt/C 60 Lbs (27.2 kg)

USF41 - 207



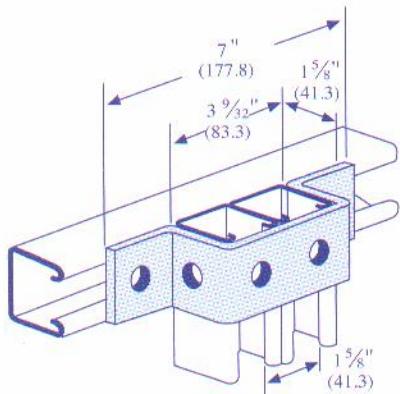
Wt/C 75 Lbs (34.0 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" (41.3 mm)	1/4" (6.4 mm)

"U" SHAPE FITTING FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

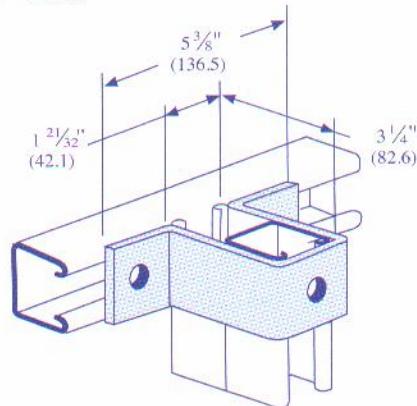


USF41 - 208



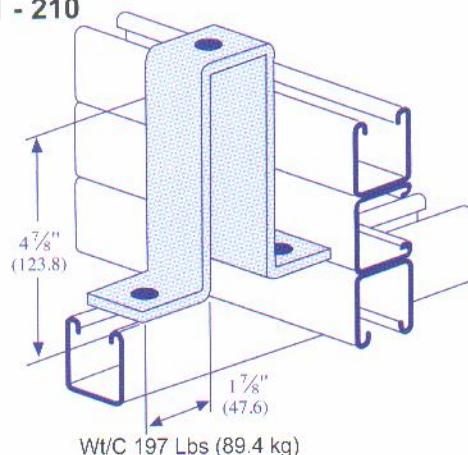
Wt/C 105 Lbs (47.6 kg)

USF41 - 209



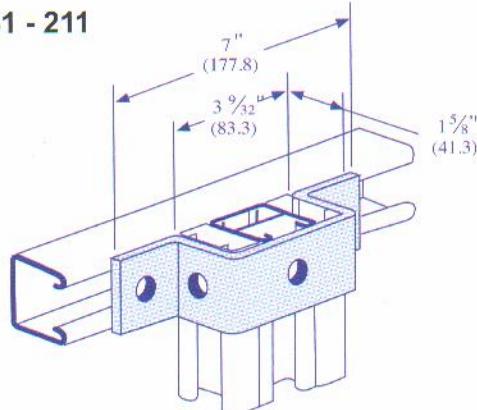
Wt/C 128 Lbs (56.1 kg)

USF41 - 210



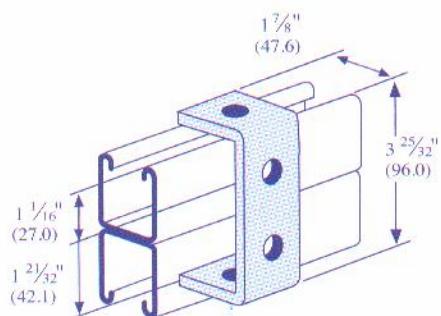
Wt/C 197 Lbs (89.4 kg)

USF41 - 211



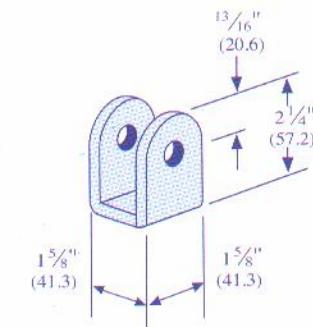
Wt/C 106 Lbs (48.1 kg)

USF41 - 212



Wt/C 70 Lbs (31.8 kg)

USF41 - 213



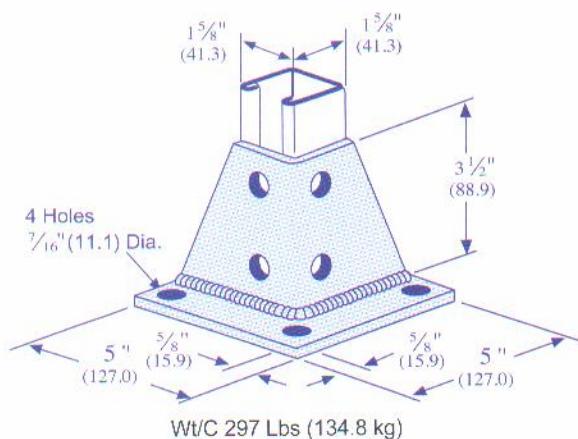
Wt/C 53 Lbs (24.0 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

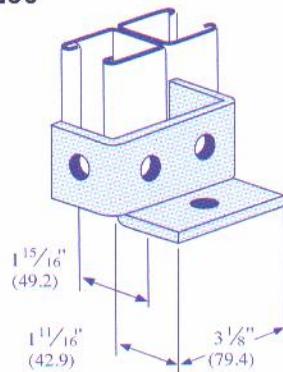
WING SHAPE FITTINGS FOR 15/8" (41-MM) WIDTH SERIES CHANNELS



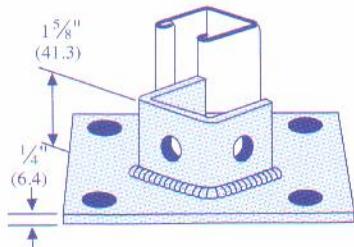
POF41 - 229



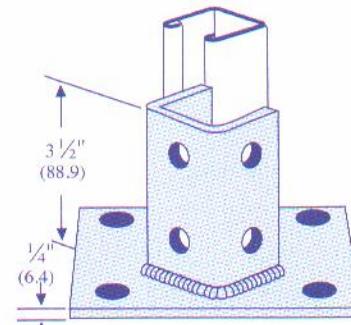
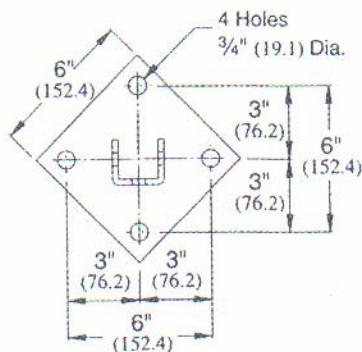
POF41 - 230



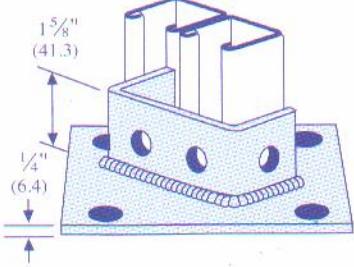
POF41 - 231



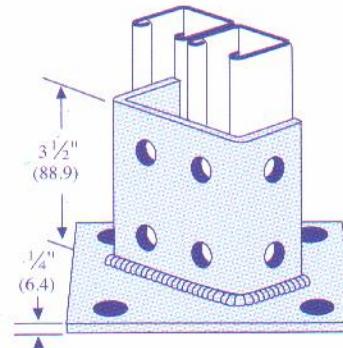
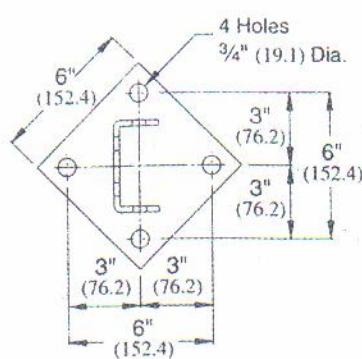
USF41 - 232



POF41 - 233



POF41 - 234



Wt/C 325 Lbs (147.4 kg)

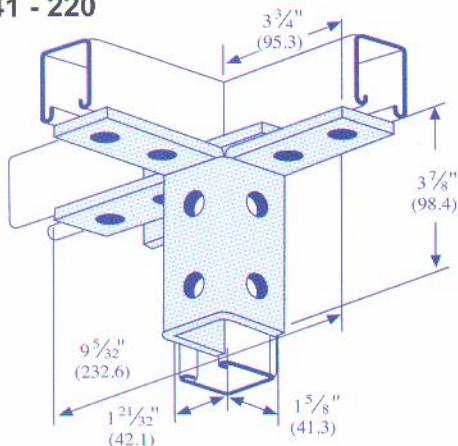
Wt/C 408 Lbs (185.1 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

WINGS SHAPE FITTINGS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

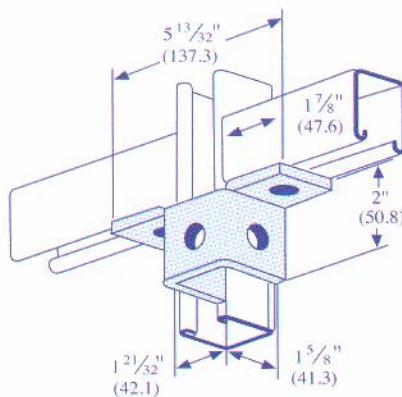


WSF41 - 220



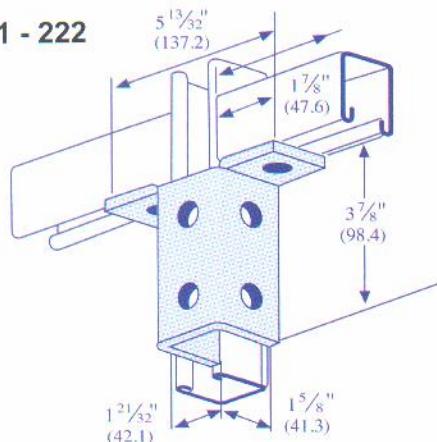
Wt/C 230 Lbs (104.3 kg)

WSF41 - 221



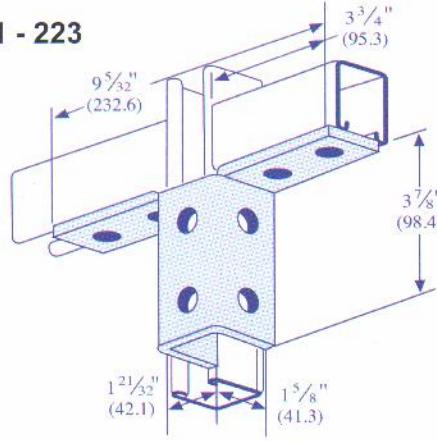
Wt/C 93 Lbs (42.2 kg)

WSF41 - 222



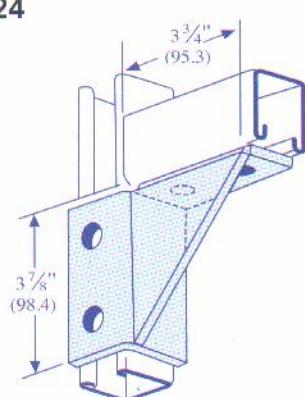
Wt/C 150 Lbs (68.0 kg)

WSF41 - 223



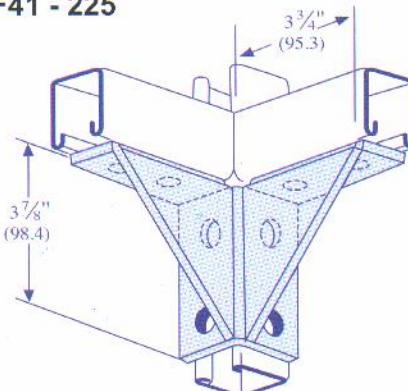
Wt/C 193 Lbs (87.5 kg)

WSF41 - 224



Wt/C 176 Lbs (79.8 kg)

WSF41 - 225



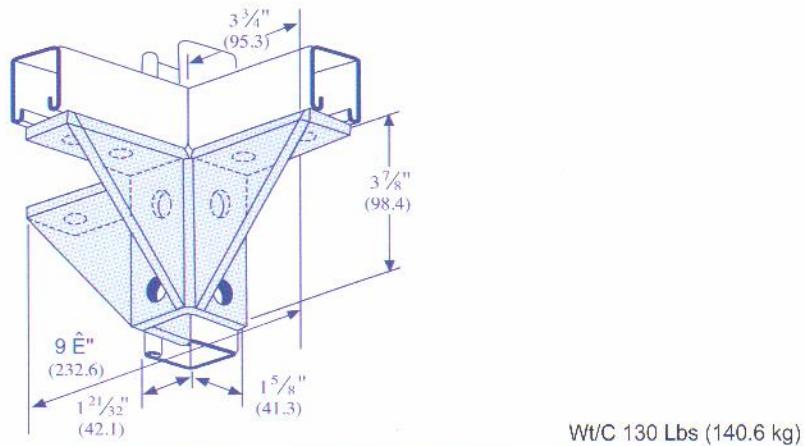
Wt/C 217 Lbs (98.4 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

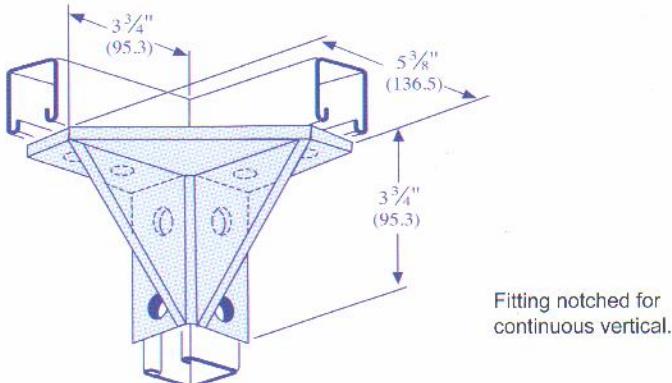
WINGS SHAPE FITTINGS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS



WSF41 - 226

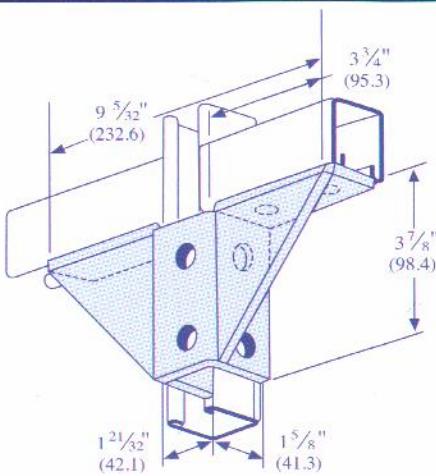


WSF41 - 227



Wt/C 315 Lbs (142.9 kg)

WSF41 - 228



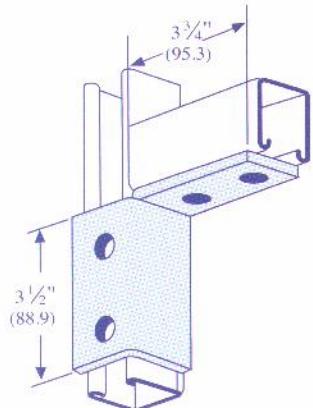
Wt/C 274 Lbs (124.3 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 1 7/8" (47.6 mm) On Center	1 5/8" 41.3 mm	1/4" 6.4 mm

**POST BASES
FOR 15/8"(41-MM) WIDTH SERIES CHANNELS**

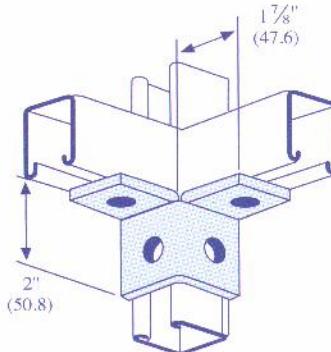


WSF41 - 214



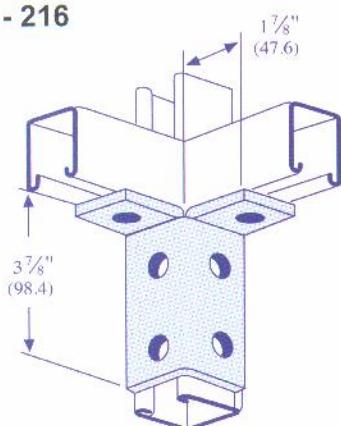
Wt/C 119 Lbs (54.0 kg)

WSF41 - 215



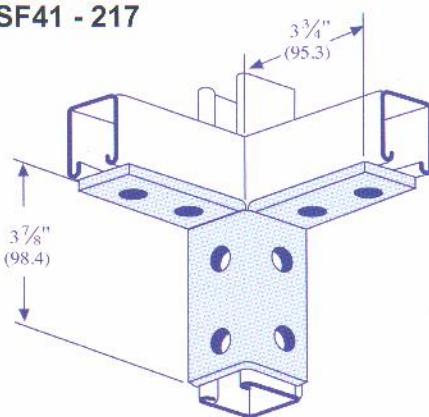
Wt/C 76 Lbs (34.5 kg)

WSF41 - 216



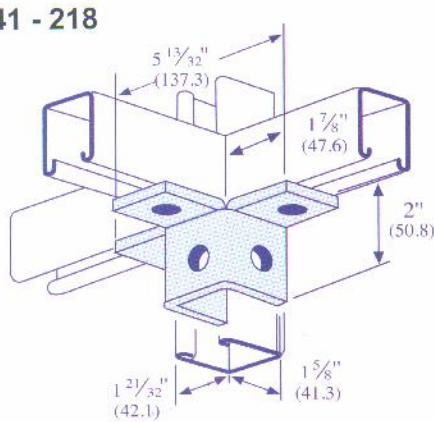
Wt/C 115 Lbs (52.2 kg)

WSF41 - 217



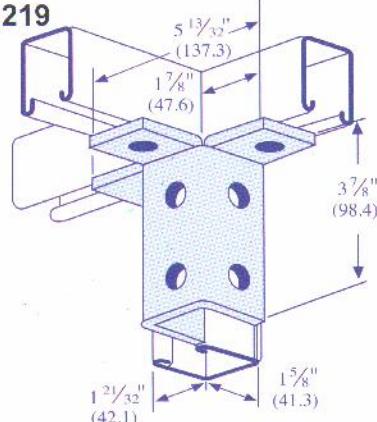
Wt/C 155 Lbs (70.3 kg)

WSF41 - 218



Wt/C 113 Lbs (51.3 kg)

WSF41 - 219



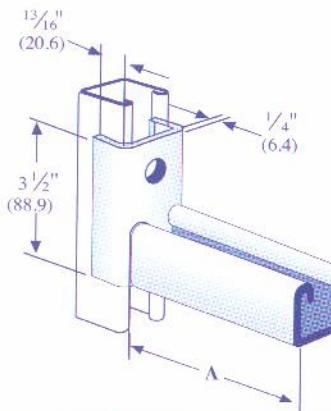
Wt/C 177 Lbs (80.3 kg)

Hole Size	Hole Spacing	Width	Thickness
9/16" Diameter 14.3 mm	13/16" (20.6 mm) From End 17/8" (47.6 mm) On Center	1 5/8" (41.3 mm)	1/4" (6.4 mm)

BRACKETS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS



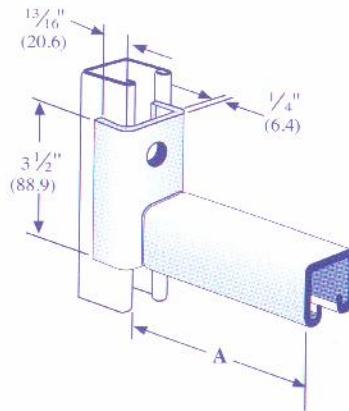
BF41 - 145



Safety Factor
 $2\frac{1}{2}$

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
6	152.4	191	86.6			12	1600	7.1
						14	1200	5.3
						16	800	3.6
12	304.8	292	132.4			12	800	3.6
						14	600	2.7
						16	400	1.8

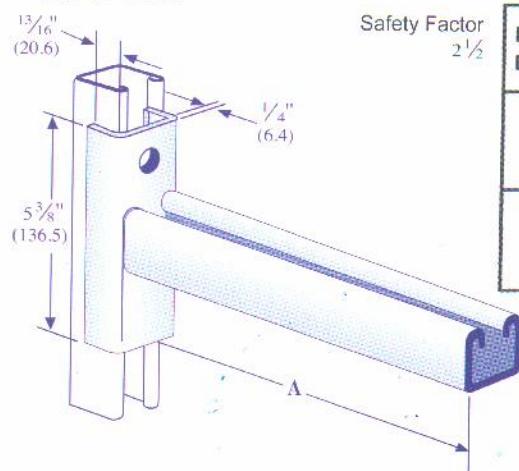
BF41 - 146



Safety Factor
 $2\frac{1}{2}$

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
6	152.4	191	86.6			12	1600	7.1
						14	1200	5.3
						16	800	3.6
12	304.8	292	132.4			12	800	3.6
						14	600	2.7
						16	400	1.8

BF41 - 147



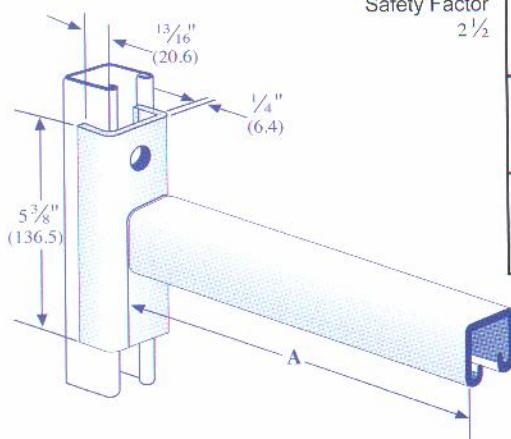
Safety Factor
 $2\frac{1}{2}$

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
18	457.2	436	197.8			12	600	2.7
						14	450	2.0
						16	300	1.3
24	609.6	536	243.1			12	450	2.0
						14	330	1.5
						16	220	1.0

BRACKETS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS



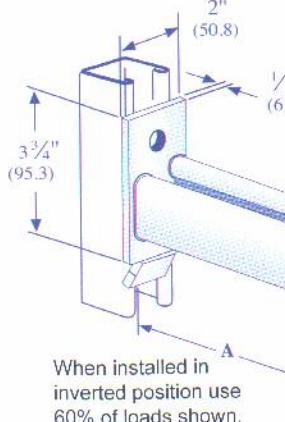
BF41 - 148



Safety Factor
 $2\frac{1}{2}$

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
18	457.2	436	197.8			12	600	2.7
						14	450	2.0
						16	300	1.3
24	609.6	536	243.1			12	450	2.0
						14	330	1.5
						16	220	1.0

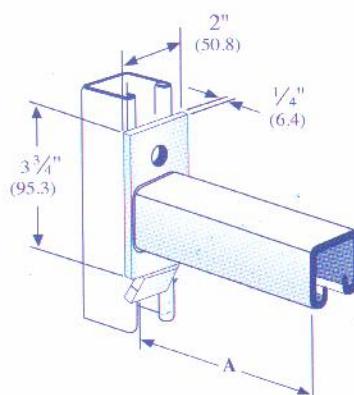
BF41 - 149



Safety Factor
 $2\frac{1}{2}$

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
6	152.4	161	73.0			12	1200	5.3
						14	800	3.6
						16	600	2.7
12	304.8	261	118.4			12	600	2.7
						14	400	1.8
						16	300	1.3
18	457.2	361	163.7			12	400	1.8
						14	270	1.2
						16	200	0.9
24	609.6	461	209.1			12	300	1.3
						14	200	0.9
						16	150	0.7

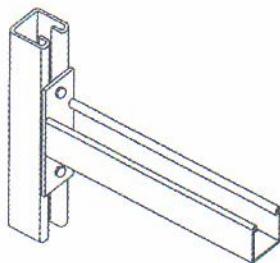
BF41 - 150



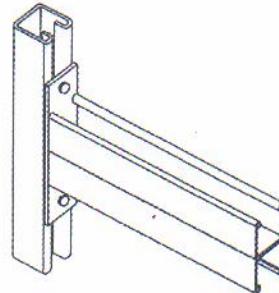
Safety Factor
 $2\frac{1}{2}$

Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
6	152.4	161	73.0			12	1200	5.3
						14	800	3.6
						16	600	2.7
12	304.8	261	118.4			12	600	2.7
						14	400	1.8
						16	300	1.3
18	457.2	361	163.7			12	400	1.8
						14	270	1.2
						16	200	0.9
24	609.6	461	209.1			12	300	1.3
						14	200	0.9
						16	150	0.7

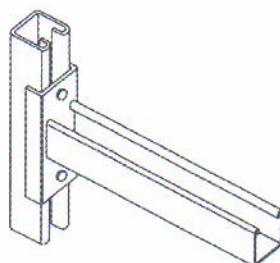
CANTILEVER ARMS



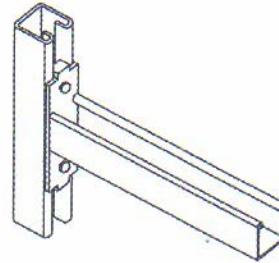
FS10 - 41



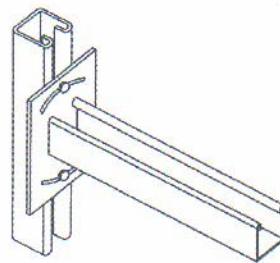
FS11 - 41



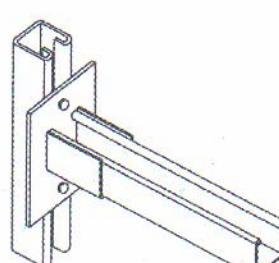
FS12 - 41



FS13 - 41



FS14 - 41



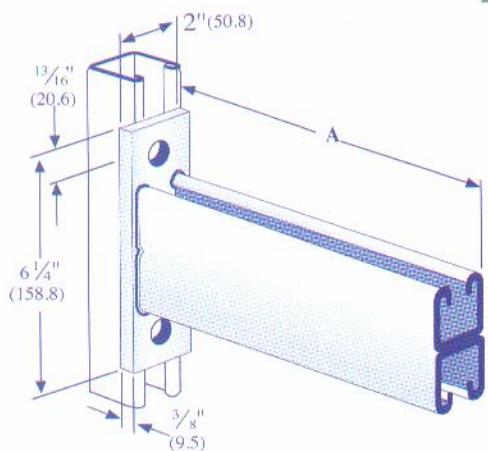
FS15 - 41

CANTILEVER ARMS ARE MANUFACTURED USUALLY HOT-DIP

BRACKETS AND BRACE FITTINGS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS

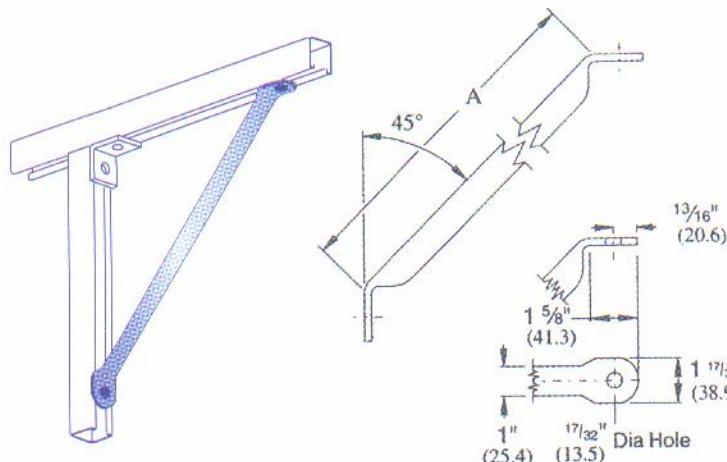


BF41 - D

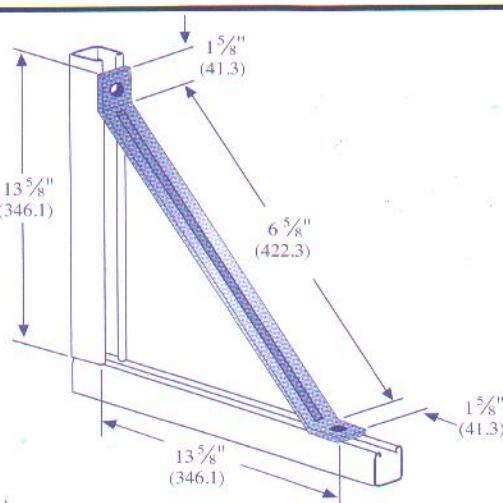


Safety Factor
2 1/2

Part Number	"A" Dimension		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Lbs	kN
12	304.8	304.8	502	227.7	12	12	2000	8.9
					14	14	1400	6.2
					16	16	1000	4.4
18	457.2	457.2	692	313.9	12	12	1300	5.8
					14	14	900	4.0
					16	16	650	2.9
24	609.6	609.6	882	400.1	12	12	1000	4.4
					14	14	700	3.1
					16	16	500	2.2
30	762.0	762.0	1072	486.3	12	12	800	3.6
					14	14	560	2.5
					16	16	400	1.8
36	914.4	914.4	1262	572.4	12	12	650	2.9
					14	14	450	2.0
					16	16	320	1.4



Part Number	"A" Dimension		Weight/C	
	In	mm	Lbs	kg
18	457.2	457.2	116	52.6
24	609.6	609.6	149	67.6
30	762.0	762.0	181	82.1
36	914.4	914.4	214	97.1

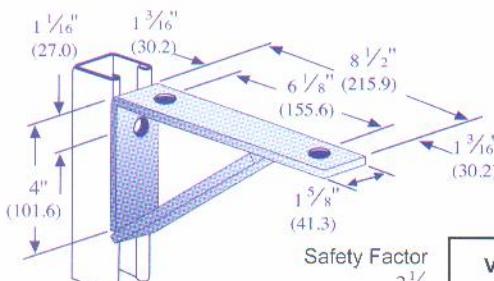


Wt/C 277 Lbs (125.6 kg)

BRACKETS FITTING FOR 15/8" (41-MM) WIDTH SERIES CHANNELS



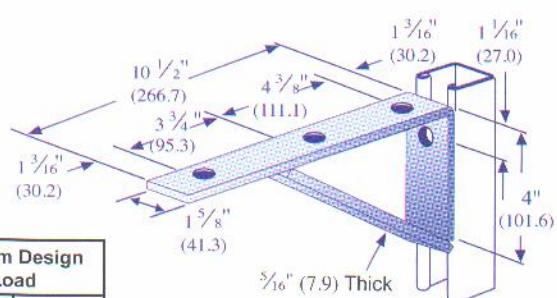
BF41 - 154



Material: 1/4" (6.4) thick steel.

Wt/C 174 Lbs (78.9 kg)

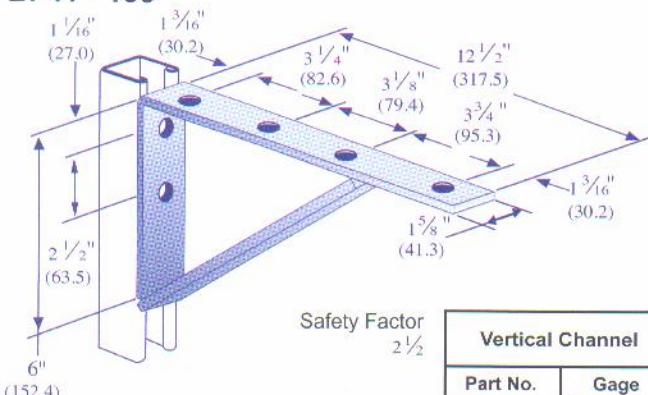
BF41 - 155



Material: 1/4" (6.4) thick steel.

Wt/C 206 Lbs (93.4 kg)

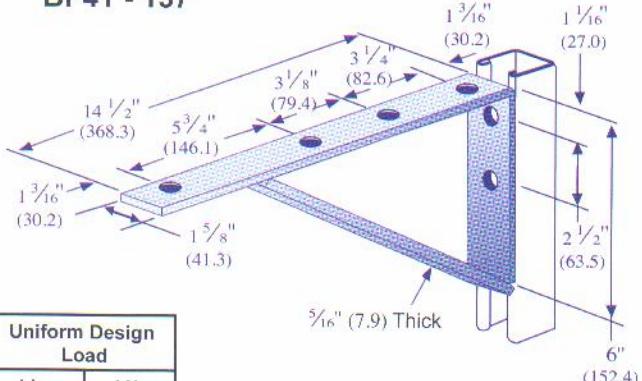
BF41 - 156



Material: 1/4" (6.4) thick steel.

Wt/C 264 Lbs (119.7 kg)

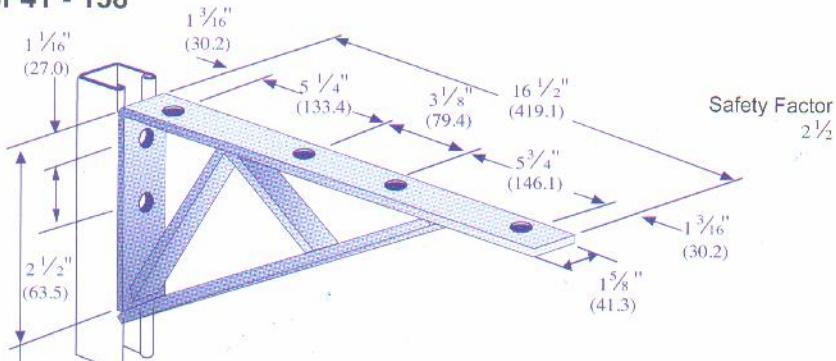
BF41 - 157



Material: 1/4" (6.4) thick steel.

Wt/C 295 Lbs (133.8 kg)

BF41 - 158



(152.4) Material: 1/4" (6.4) thick steel.

Wt/C 385 Lbs (174.67 kg)

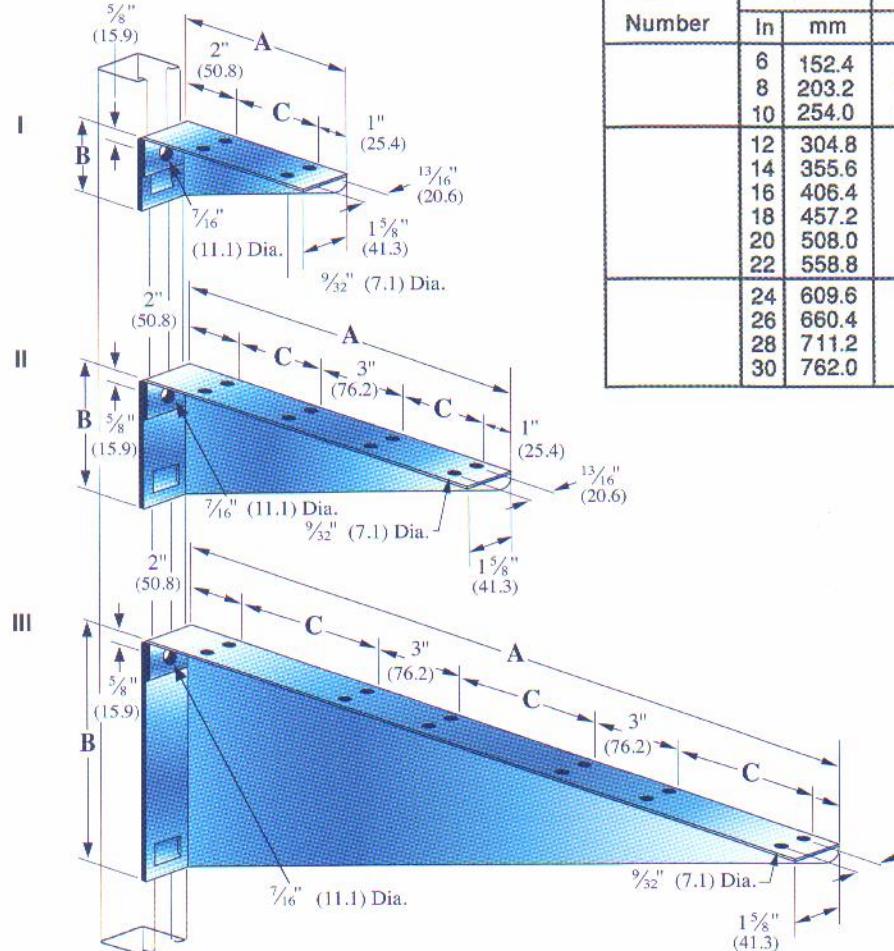
LOAD CHART

Vertical Channel		Uniform Design Load	
Part No.	Gage	Lbs	kN
	12	1200	5.3
	14	900	4.0
	16	600	2.7

BRACKETS FOR 15/8"(41-MM) WIDTH SERIES CHANNELS



BF41 - 151

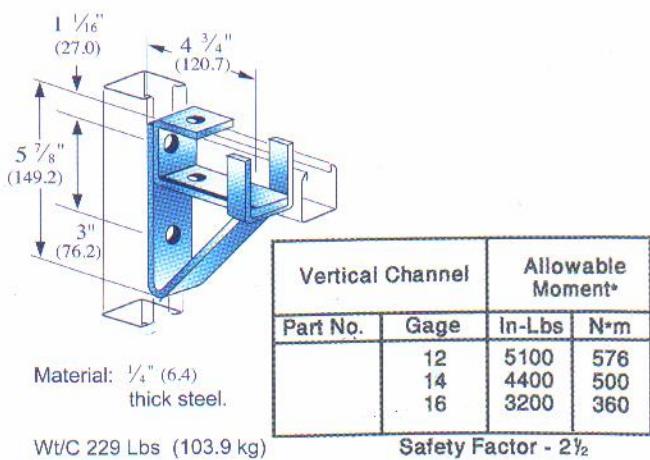


Part Number	A		B		C		Weight/C	
	In	mm	In	mm	In	mm	Lbs	kg
6	152.4	1 15/16	49.2	3	76.2	67	30.4	
8	203.2	2 7/16	61.9	5	127.0	92	41.7	
10	254.0	2 15/16	74.6	7	177.8	120	54.4	
12	304.8	3 7/16	87.3	3	76.2	152	68.9	
14	355.6	3 15/16	100.0	4	101.6	173	78.5	
16	406.4	4 7/16	112.7	5	127.0	223	101.2	
18	457.2	4 15/16	125.4	6	152.4	266	120.7	
20	508.0	5 7/16	138.1	7	177.8	308	139.7	
22	558.8	5 15/16	150.8	8	203.2	355	161.0	
24	609.6	6 7/16	163.5	5	127.0	400	181.4	
26	660.4	6 15/16	176.2	5 1/16	144.5	445	201.8	
28	711.2	7 7/16	188.9	6 5/16	160.3	493	223.6	
30	762.0	7 15/16	201.6	7	177.8	545	247.2	

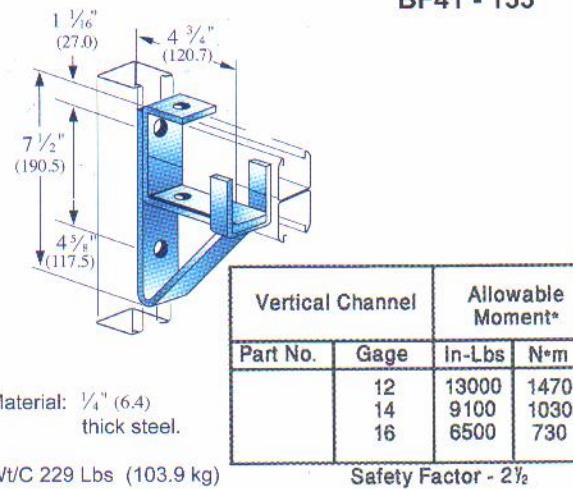
Vertical Channel		Uniform Design Load	
Part No.	Gage	Lbs	kN
	12	300	1.3
	14	250	1.1
	16	200	0.9

Safety Factor - 2 1/2

BF41 - 152



BF41 - 153



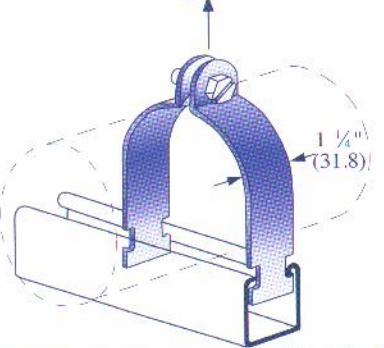
PIPE/CONDUIT CLAMPS

FOR 15/8"(41-MM) WIDTH SERIES CHANNELS



PIPE CLAMPS FOR RIGID STEEL CONDUIT

Design Load



Slotted hex head screw and nut included.

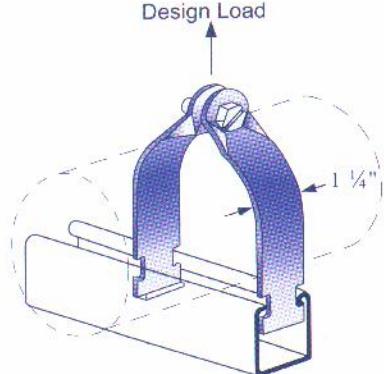
Finish: Electro-galvanized.

Finish: Hot Dip Galvanized

Part Number	Pipe Size In	O.D. Size In		Thickness mm		Weight/C Lbs		Design Load kN	
		In	mm	Gage	mm	Lbs	kg	Lbs	kN
	5/8	.675	17.1	16	1.5	10	4.5	400	1.8
	1/2	.840	21.3	16	1.5	11	5.0	400	1.8
	3/4	1.050	26.7	14	1.9	15	6.8	600	2.7
	1	1.315	33.4	14	1.9	17	7.7	600	2.7
	1 1/4	1.660	42.2	14	1.9	19	8.6	600	2.7
P1115	1 1/2	1.900	48.3	12	2.7	29	13.2	800	3.6
	2	2.375	60.3	12	2.7	34	15.4	800	3.6
	2 1/2	2.875	73.0	12	2.7	40	18.1	800	3.6
	3	3.500	88.9	12	2.7	47	21.3	800	3.6
	3 1/2	4.000	101.6	11	3.0	62	28.1	1000	4.4
	4	4.500	114.3	11	3.0	67	30.4	1000	4.4
	5	5.563	141.3	11	3.0	80	36.3	1000	4.4
	6	6.625	168.3	10	3.4	102	46.3	1000	4.4
	8	8.625	219.1	10	3.4	130	59.0	1000	4.4

UNIVERSAL CLAMPS FOR RIGID OR THINWALL CONDUIT

Design Load



Slotted hex head screw and nut included.

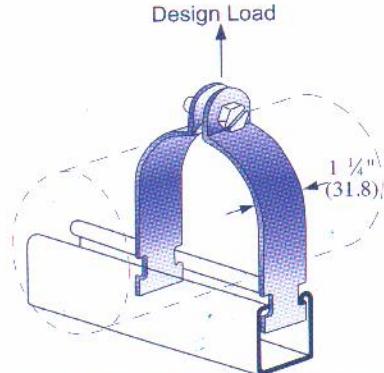
Finish: Electro-galvanized.

Finish: Hot Dip Galvanized

Part Number	Pipe/Conduit Size In	Thickness		Weight/C		Design Load	
		Gage	mm	Lbs	kg	Lbs	kN
	1/2	16	1.5	10	4.5	400	1.8
	3/4	16	1.5	11	4.0	400	1.8
	1	16	1.5	12	5.4	400	1.8
	1 1/4	14	1.9	18	8.2	600	2.7
	1 1/2	14	1.9	20	9.1	600	2.7
	2	14	1.9	22	10.0	600	2.7

PIPE CLAMPS FOR THIN WALL CONDUIT (E.M.T.)

Design Load

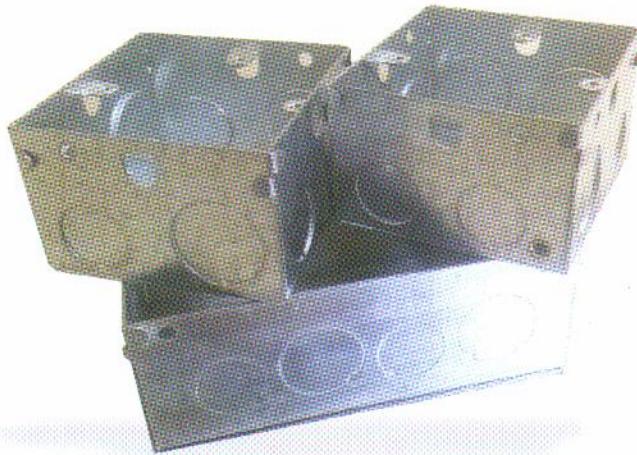


Slotted hex head screw and nut included.

Finish: Electro-galvanized.

Finish: Hot Dip Galvanized

Part Number	Pipe Size In	O.D. Size In		Thickness mm		Weight/C		Design Load	
		In	mm	Gage	mm	Lbs	kg	Lbs	kN
	5/8	.577	14.7	16	1.5	9	4.1	400	1.8
	1/2	.706	17.9	16	1.5	11	5.0	400	1.8
	3/4	.922	23.4	16	1.5	12	5.4	400	1.8
	1	1.163	29.5	14	1.9	15	6.8	600	2.7
	1 1/4	1.510	38.4	14	1.9	18	8.2	600	2.7
	1 1/2	1.740	44.2	12	2.7	29	13.2	800	3.6
	2	2.197	55.8	12	2.7	33	15.0	800	3.6
	2 1/2	2.875	73.0	12	2.7	40	18.1	800	3.6
	3	3.500	88.9	12	2.7	47	21.3	800	3.6
	3 1/2	4.000	101.6	11	3.0	62	28.1	1000	4.4
	4	4.500	114.3	11	3.0	67	30.4	1000	4.4



SWITCH BOX (7 X 7 X 35 MM) - 72 x 72 x 35 MM

SL. No.	DESCRIPTION	ACCESSORY	MADE IN	ITEM CODE
1	SWITCH BOX 7 X 7 X 1.1 MM	WITHOUT EARTH	SAUDI ARABIA	999 - 600707
2	SWITCH BOX 7 X 7 X 1.1 MM	STEEL EARTH	SAUDI ARABIA	999 - 610707
3	SWITCH BOX 7 X 7 X 1.1 MM	BRASS EARTH	SAUDI ARABIA	999 - 620707
4	SWITCH BOX 7 X 7 X 1.1 MM	WITH ADJUSTABLE LUG & WITHOUT EARTH	SAUDI ARABIA	999 - 630707
5	SWITCH BOX 7 X 7 X 1.1 MM	BRASS EARTH ADJUSTABLE LUG	SAUDI ARABIA	999 - 640707
6	SWITCH BOX 7 X 7 X 0.9 MM	WITHOUT EARTH	SAUDI ARABIA	999 - 650707
7	SWITCH BOX 7 X 7 X 0.9 MM	STEEL EARTH	SAUDI ARABIA	999 - 660707
8	SWITCH BOX 7 X 7 X 0.9 MM	BRASS EARTH	SAUDI ARABIA	999 - 670707
9	SWITCH BOX 7 X 7 X 0.9 MM	WITH ADJUSTABLE LUG & WITHOUT EARTH	SAUDI ARABIA	999 - 680707
10	SWITCH BOX 7 X 7 X 0.9 MM	BRASS EARTH ADJUSTABLE LUG	SAUDI ARABIA	999 - 690707

SWITCH BOX (7 X 7 X 47 MM) - 72 x 72 x 47 MM

SL. No.	DESCRIPTION	ACCESSORY	MADE IN	ITEM CODE
1	SWITCH BOX 7 X 7 X 1.1 MM	WITHOUT EARTH	SAUDI ARABIA	999 - 600707
2	SWITCH BOX 7 X 7 X 1.1 MM	STEEL EARTH	SAUDI ARABIA	999 - 610707
3	SWITCH BOX 7 X 7 X 1.1 MM	BRASS EARTH	SAUDI ARABIA	999 - 620707
4	SWITCH BOX 7 X 7 X 1.1 MM	WITH ADJUSTABLE LUG & WITHOUT EARTH	SAUDI ARABIA	999 - 630707
5	SWITCH BOX 7 X 7 X 1.1 MM	BRASS EARTH ADJUSTABLE LUG	SAUDI ARABIA	999 - 640707
6	SWITCH BOX 7 X 7 X 0.9 MM	WITHOUT EARTH	SAUDI ARABIA	999 - 650707
7	SWITCH BOX 7 X 7 X 0.9 MM	STEEL EARTH	SAUDI ARABIA	999 - 660707
8	SWITCH BOX 7 X 7 X 0.9 MM	BRASS EARTH	SAUDI ARABIA	999 - 670707
9	SWITCH BOX 7 X 7 X 0.9 MM	WITH ADJUSTABLE LUG & WITHOUT EARTH	SAUDI ARABIA	999 - 680707
10	SWITCH BOX 7 X 7 X 0.9 MM	BRASS EARTH ADJUSTABLE LUG	SAUDI ARABIA	999 - 690707



SWITCH BOX (7 X 14 X 35 MM) - 72 x 132 x 35 MM

SL. No.	DESCRIPTION	ACCESSORY	MADE IN	ITEM CODE
1	SWITCH BOX 7 X 14 X 1.1 MM	WITHOUT EARTH	SAUDI ARABIA	333 - 600 714
2	SWITCH BOX 7 X 14 X 1.1 MM	STEEL EARTH	SAUDI ARABIA	333 - 610 714
3	SWITCH BOX 7 X 14 X 1.1 MM	BRASS EARTH	SAUDI ARABIA	333 - 620 714
4	SWITCH BOX 7 X 14 X 1.1 MM	WITH ADJUSTABLE LUG & WITHOUT EARTH	SAUDI ARABIA	333 - 630 714
5	SWITCH BOX 7 X 14 X 1.1 MM	BRASS EARTH ADJUSTABLE LUG	SAUDI ARABIA	333 - 640 714
6	SWITCH BOX 7 X 14 X 0.9 MM	WITHOUT EARTH	SAUDI ARABIA	333 - 650 714
7	SWITCH BOX 7 X 14 X 0.9 MM	STEEL EARTH	SAUDI ARABIA	333 - 660 714
8	SWITCH BOX 7 X 14 X 0.9 MM	BRASS EARTH	SAUDI ARABIA	333 - 670 714
9	SWITCH BOX 7 X 14 X 0.9 MM	WITH ADJUSTABLE LUG & WITHOUT EARTH	SAUDI ARABIA	333 - 680 714
10	SWITCH BOX 7 X 14 X 0.9 MM	BRASS EARTH ADJUSTABLE LUG	SAUDI ARABIA	333 - 690 714

SWITCH BOX (7 X 14 X 47 MM) - 72 x 132 x 47 MM

SL. No.	DESCRIPTION	ACCESSORY	MADE IN	ITEM CODE
1	SWITCH BOX 7 X 14 X 1.1 MM	WITHOUT EARTH	SAUDI ARABIA	222 - 600 714
2	SWITCH BOX 7 X 14 X 1.1 MM	STEEL EARTH	SAUDI ARABIA	222 - 610 714
3	SWITCH BOX 7 X 14 X 1.1 MM	BRASS EARTH	SAUDI ARABIA	222 - 620 714
4	SWITCH BOX 7 X 14 X 1.1 MM	WITH ADJUSTABLE LUG & WITHOUT EARTH	SAUDI ARABIA	222 - 630 714
5	SWITCH BOX 7 X 14 X 1.1 MM	BRASS EARTH ADJUSTABLE LUG	SAUDI ARABIA	222 - 640 714
6	SWITCH BOX 7 X 14 X 0.9 MM	WITHOUT EARTH	SAUDI ARABIA	222 - 650 714
7	SWITCH BOX 7 X 14 X 0.9 MM	STEEL EARTH	SAUDI ARABIA	222 - 660 714
8	SWITCH BOX 7 X 14 X 0.9 MM	BRASS EARTH	SAUDI ARABIA	222 - 670 714
9	SWITCH BOX 7 X 14 X 0.9 MM	WITH ADJUSTABLE LUG & WITHOUT EARTH	SAUDI ARABIA	222 - 680 714
10	SWITCH BOX 7 X 14 X 0.9 MM	BRASS EARTH ADJUSTABLE LUG	SAUDI ARABIA	222 - 690 714

AL - FAREED JUNCTION BOXES



Made from galvanized sheet steel of 0.9 mm, 1mm, & 1.2 mm.
Used for Surface / Flush mounted applications.

Depth (mm) Earth	Size (mm)	Cat. Number
100	100 x 100	33 - 100 100
100	150 x 150	33 - 100 150
100	200 x 200	33 - 100 200
100	250 x 250	33 - 100 250
100	300 x 300	33 - 100 300
100	350 x 350	33 - 100 350
100	450 x 450	33 - 100 450
100	500 x 500	33 - 100 500
100	600 x 600	33 - 100 600
100	700 x 700	33 - 100 700
100	800 x 800	33 - 100 800
100	900 x 900	33 - 100 900

Depth (mm) Earth	Size (mm)	Cat. Number
55	100 x 100	33 - 055 100
55	150 x 150	33 - 055 150
55	200 x 200	33 - 055 200
55	250 x 250	33 - 055 250
55	300 x 300	33 - 055 300
55	350 x 350	33 - 055 350
55	450 x 450	33 - 055 450
75	200 x 200	33 - 075 200
75	250 x 250	33 - 075 250
75	300 x 300	33 - 075 300
75	350 x 350	33 - 075 350
75	450 x 450	33 - 075 450



CODE : FS - 14



مصنع نجوم الفريد للصناعات المعدنية

لإنتاج اللوحات الكهربائية وحوامل الكابلات ومستلزماتها



سلع في المملكة العربية السعودية

هاتف: +966 1 410 6265

فاكس: +966 1 214 3200

ص.ب ٣٥٥٣٤ الرياض ١١٣٨٣ المملكة العربية السعودية

بريد إلكتروني: al_fareedstars@yahoo.com

AL-FAREED STARS FACTORY

For Metal & Cable Support System

Made in Saudi Arabia



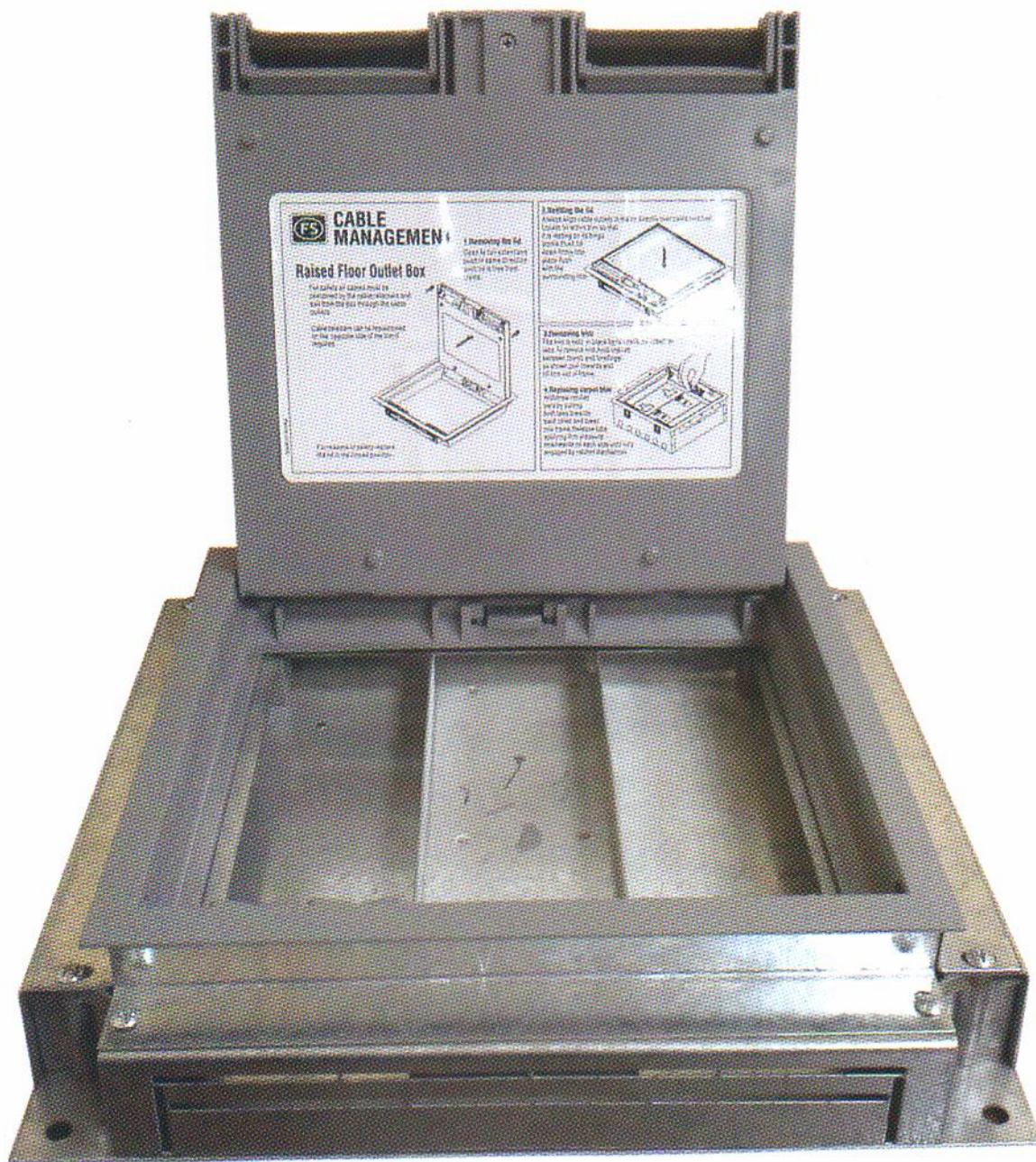
Tel.: +966 1 410 6265

Fax: +966 1 214 3200

P.O.Box 355034 Riyadh 11383 Saudi Arabia

E-mail: al_fareedstars@yahoo.com

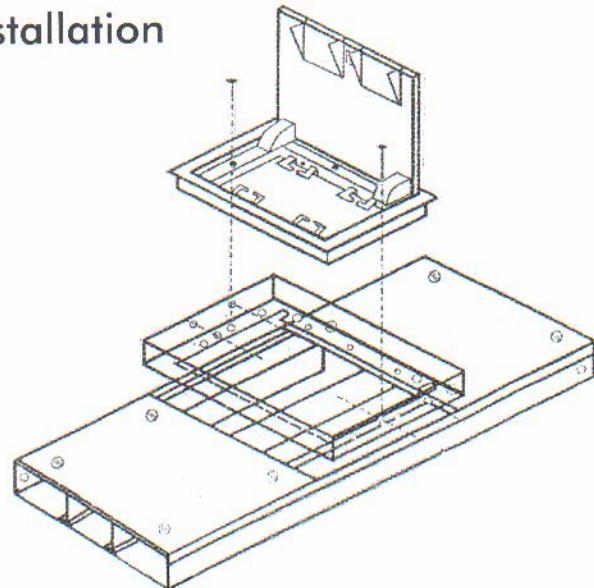
CODE : FS - 15



FLUSH FLOOR TRUNKING



Service Outlet Installation



مصنع نجوم الفريد

للاصناعات المعدنية وصواني الكابلات
وعلب الاغياث والمعفاتية الكهربائية

NEW



ص.ب ٣٥٥٠٣٤ الرياض ١١٣٨٣ - المملكة العربية السعودية - هاتف: ٩٦٦ ١١ ٤١٠٦٢٦٥ + فاكس: ٩٦٦ ١١ ٤٠٠٩٧٧٨
ترخيص صناعي ٥٠٢ - س.ت ١٠٢١٩٥٧٣ -

P.O.Box 355034 Riyadh 11383 - Kingdom of Saudi Arabia-Tel.: + 966 11 4106265 Fax:+ 966 11 4009778

I.d.Lic 502/S-C.R. 1010219573

www.alfareedstars.com - info@alfareedstars.com - al_fareedstars@yahoo.com