Osos Al Benaa Company For Metal Industri

for cable support system

شركة أسس البناء للصناعات المعدنية

مختصون بتصنيع أحمال الكابلات

رؤيـــة VISION 2030

المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



CERTIFICATE

This is to certify that the Quality Management System of

Company ASSE AL-BANNA For Metal Production

Address 1: Building No. 7379, Omar Al Moukhtar, Ghorabi Street, Al Amal, Riyadh 12643, KSA

Address 2: 5021 Istanbul St, Al Mishal, Sulay, Riyadh 14325, KSA

has been assessed and found to conform to the requirements of

ISO 9001:2015

This Certificate is valid for the following scope

Design, Production of Metal Components and Cable Management (Cable Tray& Support) Systems for Various Industries, Including Construction, Telecommunications, and Electrical Engineering. Metal Fabrication: Cutting, Bending, and Assembling Metal Materials Welding and Finishing Services to Meet Specific project Requirements Prototyping and Custom Design Solutions

Certificate No.	:AMER20467
Registration Date	:02/09/2024
Issue Date	:05/09/2024
Expiry Date	:01/09/2027
Recertification Date	:01/09/2027

Director

AMERICO QUALITY STANDARDS REGISTECH PVT. LTD

Key Location: 1910 Thomes Ave, Cheyenne, Wyoming, WY 82001, USA

Operations Office: D 303, 104.Nisarg plaza, Bhumkar chowk - Hinjewadi road, Wakad, Pune 411057

CM-MS-7842

For verification and updated information concerning the present certificate, please visit www.americocert.com The Certificate is valid for period of 3 years subject to satisfactory annual surveillance audit. This Certificate is the property of AMERICO Quality Standards Registech Pvt. Ltd. & shall be returned immediately when demanded.

CERTIFICATE

This is to certify that the Environmental Management System of

Company ASSE AL-BANNA For Metal Production

Address 1: Building No. 7379, Omar Al Moukhtar, Ghorabi Street,
Al Amal, Riyadh 12643, KSA

Address 2: 5021 Istanbul St, Al Mishal, Sulay, Riyadh 14325, KSA

has been assessed and found to conform to the requirements of

ISO 14001:2015

This Certificate is valid for the following scope

Design, Production of Metal Components and Cable Management (Cable Tray & Support) Systems for Various Industries, Including Construction, Telecommunications, and Electrical Engineering. Metal Fabrication: Cutting, Bending, and Assembling Metal Materials Welding and Finishing Services to Meet Specific project Requirements Prototyping and Custom Design Solutions

Certificate No.	:AMER20468
Registration Date	:02/09/2024
Issue Date	:05/09/2024
Expiry Date	:01/09/2027
Recertification Date	:01/09/2027

Director

AMERICO QUALITY STANDARDS REGISTECH PVT. LTD

Key Location: 1910 Thomes Ave, Cheyenne, Wyoming, WY 82001, USA

Operations Office: D 303, 104.Nisarg plaza, Bhumkar chowk - Hinjewadi road, Wakad, Pune 411057

CM-MS-7836

For verification and updated information concerning the present certificate, please visit www.americocert.com The Certificate is valid for period of 3 years subject to satisfactory annual surveillance audit. This Certificate is the property of AMERICO Quality Standards Registech Pvt. Ltd. & shall be returned immediately when demanded.

CERTIFICATE

This is to certify that the Occupational Health and Safety Management System of

Company ASSE AL-BANNA For Metal Production

Address 1: Building No. 7379, Omar Al Moukhtar, Ghorabi Street, Al Amal, Riyadh 12643, KSA

Address 2: 5021 Istanbul St, Al Mishal, Sulay, Riyadh 14325, KSA

has been assessed and found to conform to the requirements of

ISO 45001:2018

This Certificate is valid for the following scope

Design, Production of Metal Components and Cable Management (Cable Tray& Support) Systems for Various Industries, Including Construction, Telecommunications, and Electrical Engineering. Metal Fabrication: Cutting, Bending, and Assembling Metal Materials Welding and Finishing Services to Meet Specific project Requirements Prototyping and Custom Design Solutions

Certificate No.	:AMER20469
Registration Date	:02/09/2024
Issue Date	:05/09/2024
Expiry Date	:01/09/2027
Recertification Date	:01/09/2027

Director

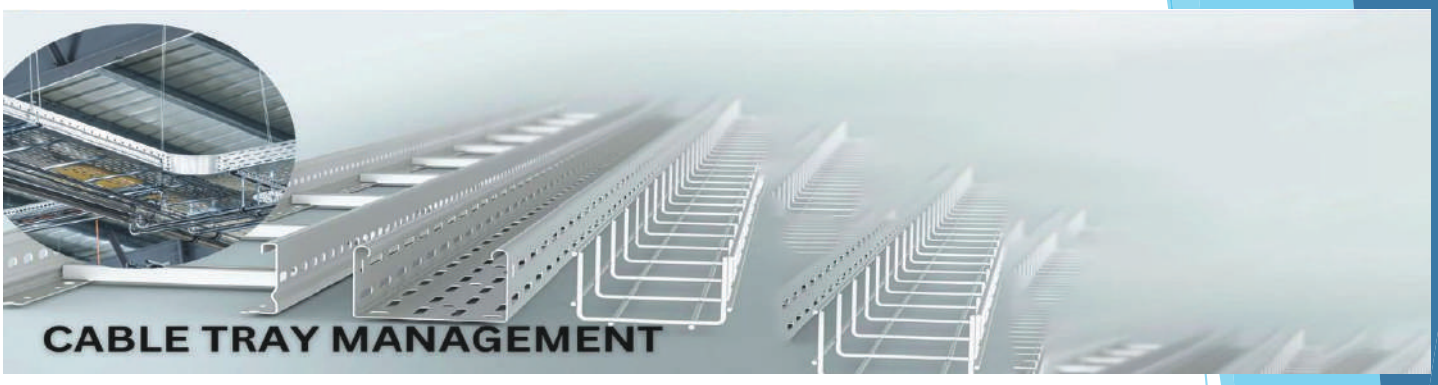
AMERICO QUALITY STANDARDS REGISTECH PVT. LTD

Key Location: 1910 Thomes Ave, Cheyenne, Wyoming, WY 82001, USA

Operations Office: D 303, 104.Nisarg plaza, Bhumkar chowk - Hinjewadi road, Wakad, Pune 411057

CM-MS-7832

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COMPANY-INTRODUCTION.

Welcome to OSOS Al BENAA Company, a leading name in the Cable Tray & Support System industry. Established in 2022 with a vision to provide high-quality, innovative solutions for electrical and construction needs, we specialize in the design, manufacturing, and distribution of cable management systems. E.g. cable tray, cable trunking & cable ladders.



OSOS Al BENAA Company for Cable Tray & Support System has latest machinery the manufacture the products of cable support system that are up to the Saudi and International standard our dedication to Investing in human resources , gave us a staff that comprises highly qualified and trained professionals who make sure that the quality of our products is more than satisfactory requirements.
It is our constant endeavor to achieve total customer satisfaction by offering competitively priced systems along with technical support during design and Installation.





OSOS Al BENAA Company.

Factory is successfully active in major industry projects

such as.

- HOSPITALS
- BANKS
- COMPUTER INVOIRMENT
- Industrial and Power Applications
- Residential Projects
- Sewage Pumping & Sub Stations



OUR PROMISE.

Equipped with latest machinery and staffed with highly skilled and professional engineers and technician.

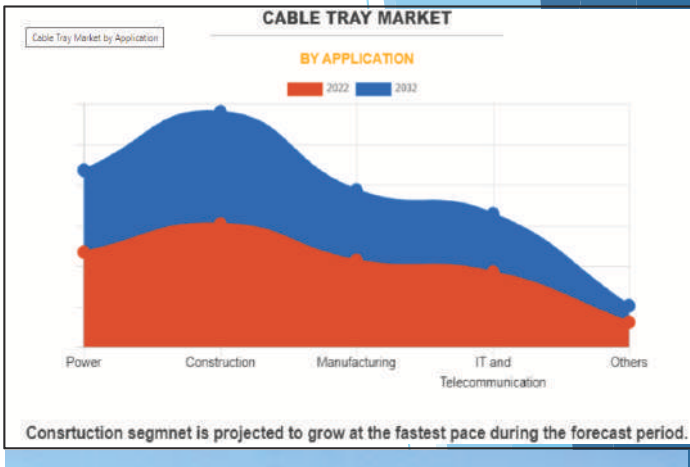
OUR VISION.

our vision is to be the leading innovator in cable management solutions, like cable trays, cable trunks, cable ladders & accessories. Setting the standard for excellence in cable tray manufacturing. We strive to revolutionize the industry by providing cutting-edge, sustainable, and highly efficient products that meet the evolving needs of our global clientele.

MANUFACTURE- FABRICATION.

manufacture a full and extensive range of containment and accessories including cable basket tray, Trunking, Cable Tray, Cable Ladder, Strut, Fixing, manufactured in the KSA- Riyadh We specialize in brackets and frames for every type of installation

Our market leading onsite fabrication shop gives us the capability and manufacture bespoke and specialist Cable Management Solutions to meet the most demanding mechanical and capacity to fabricate and electrical projects in the KSA -GCC





MAJOR PRODUCTS



CABLE TRAY & ACCESORIES
GI & HOTDIP GALVANIZED







CABLE LADDER &
ACCESORIES
GI & HOTDIP GALVANIZED









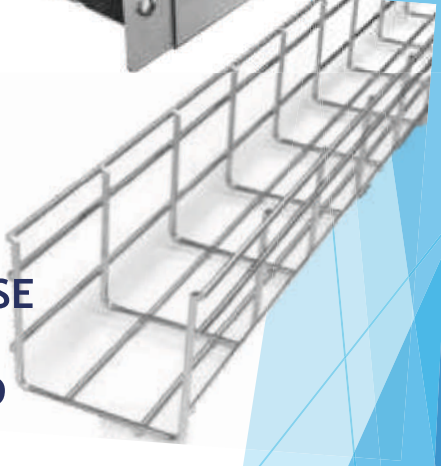
CABLE TRUNKING &
ACCESORIES
GI & HOTDIP GALVANIZED



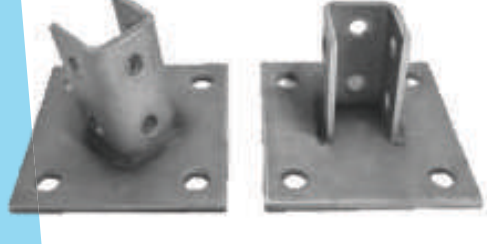


CABLE BASCKET TRAY &
ACCESSORIES.

SLOTTED CHANNELS, BASE
PLATES & FITTINGS
GI & HOTDIP GALVANIZED











GENERAL INFORMATION
CABLE TRAY

STANDARD LENGTH OF THE TRAY : 2440 - 3000

FLANGE HEIGHT

LIGHT DUTY : 25 - 30
MEDIUM DUTY : 50 - 75
HEAVY DUTY : 75 - 100

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

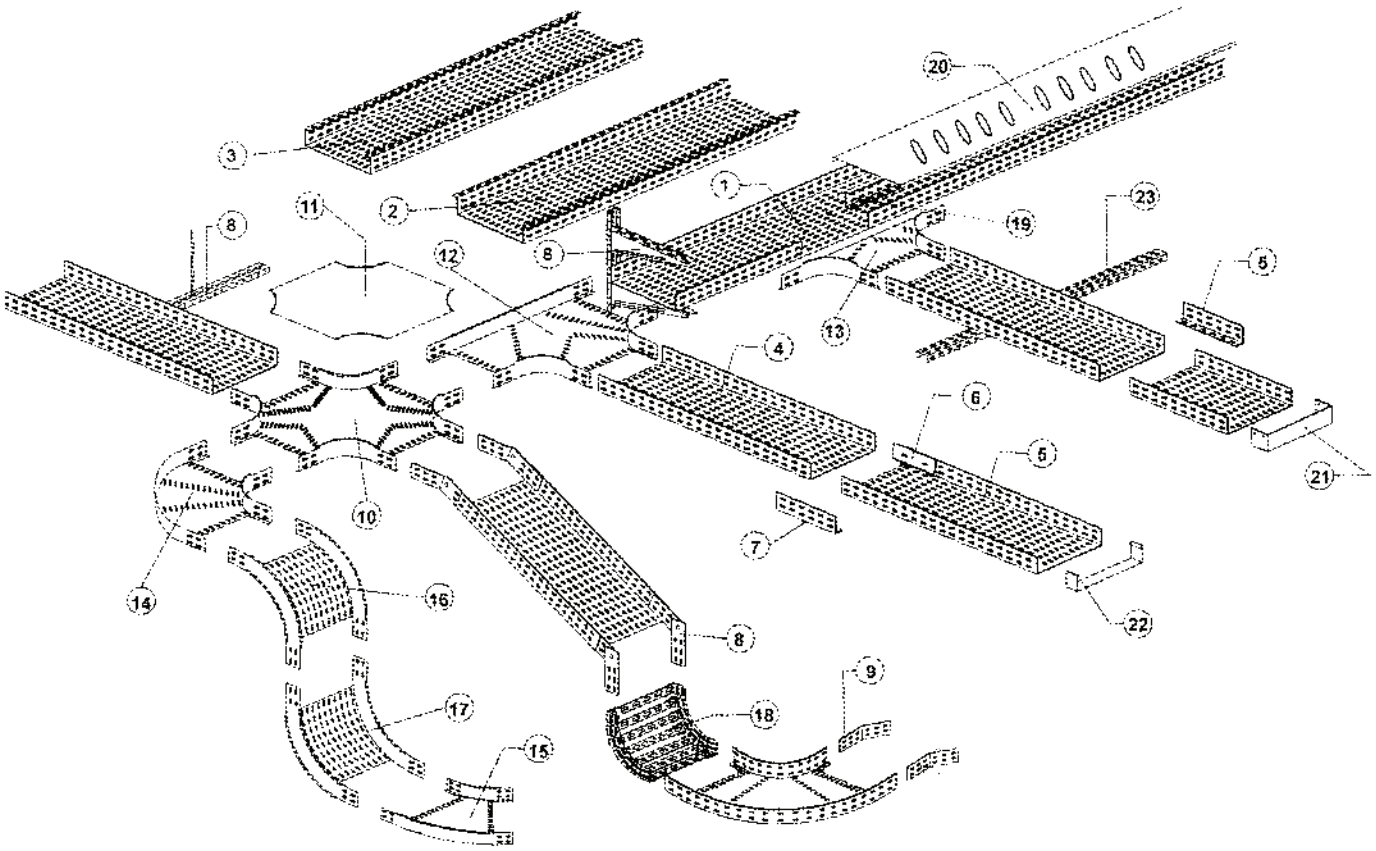
100 - 300 wide x 1.2 METAL THICKNESS
350-600 WIDE x 1.5 METAL THICKNESS

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.

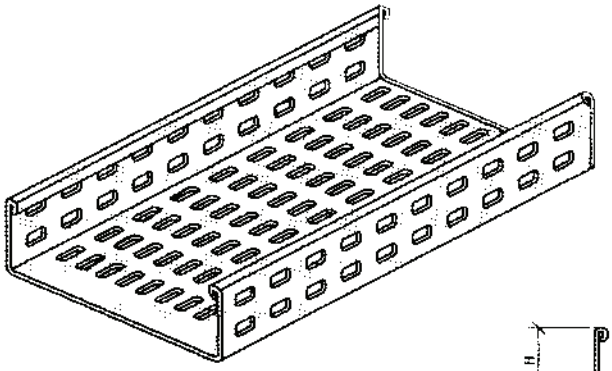
PRODUCT RANGE
CABLE TRAY SYSTEM

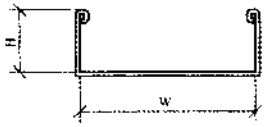


1 - TYPE-TF CABLE TRAY
2 - TYPE-FE CABLE TRAY
3 - TYPE-LE CABLE TRAY
4 - TYPE - CE CABLE TRAY
5 - TYPE - ME CABLE TRAY
6 - CLIP-ON-COUPLER
7 - CORNERED SPLICE PLATE
8 - HINGED SPLICE PLATE
9 - BENDABLE SPLICE PLATE
10 - CROSS
11 - COVERS FOR CONNECTING UNITS
12 - Tee
13 - TAKE OFF
14 - 90° BEND
15 - 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

CABLE TRAY ORDERING GUIDE

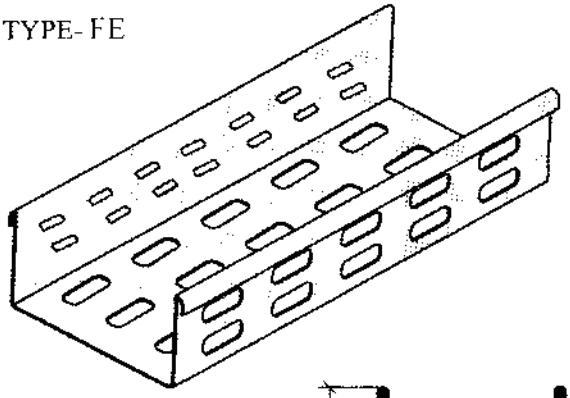
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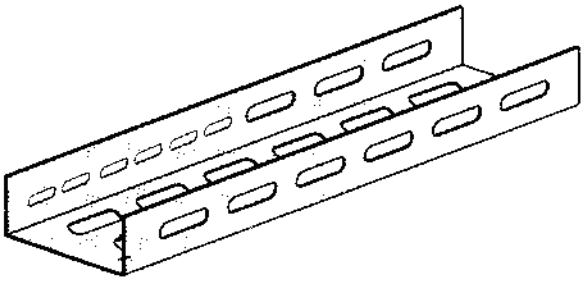
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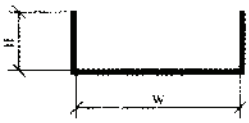




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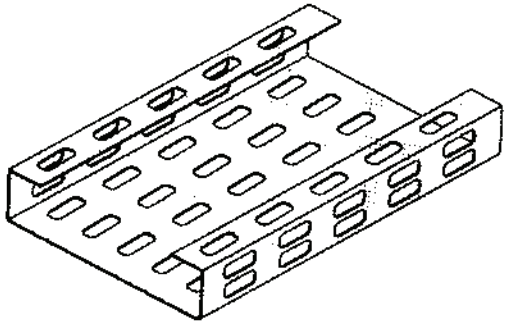
TYPE LE

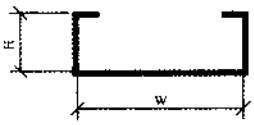




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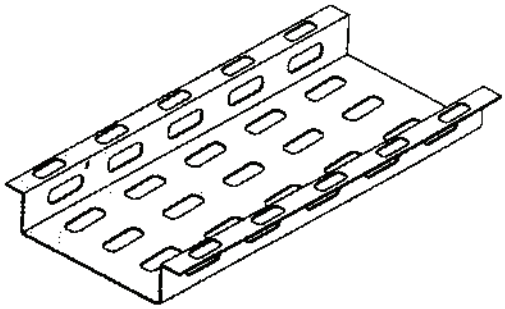
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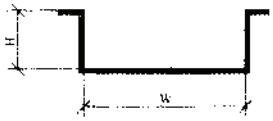




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TYPE- ME

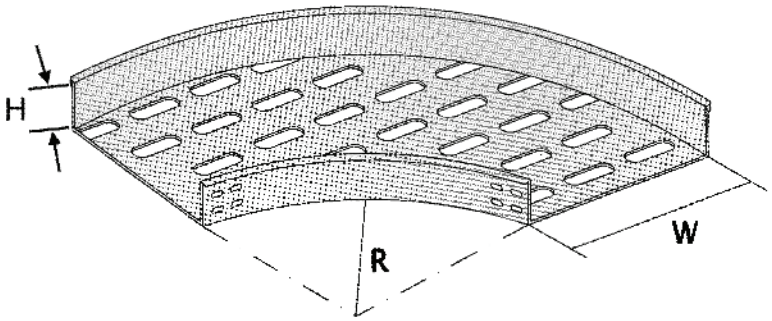




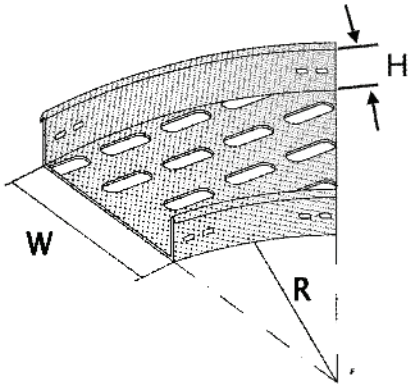
No. 5

CABLE TRAY FITTINGS

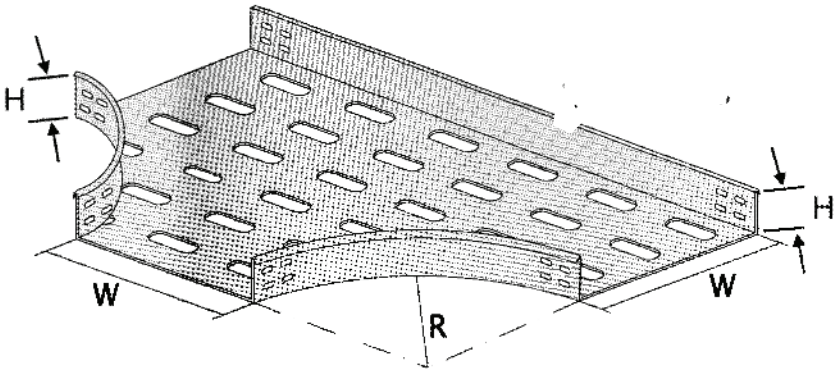
90° HORIZONTAL ELBOW
PART DESCRIPTION: 90HB



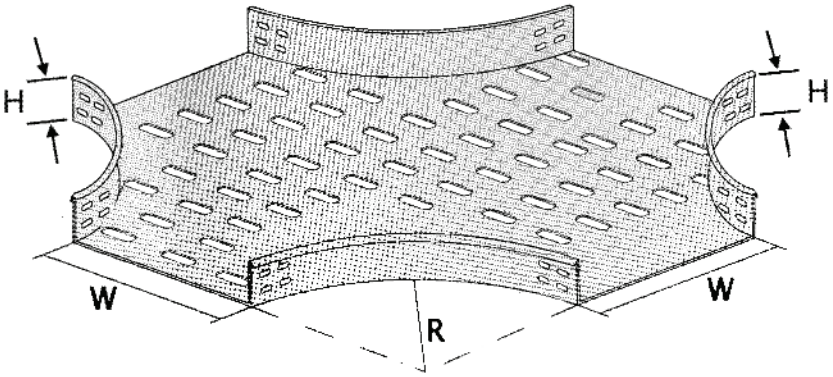
45° HORIZONTAL ELBOW
PART DESCRIPTION: 45HB



HORIZONTAL Tee
PART DESCRIPTION: 00TH

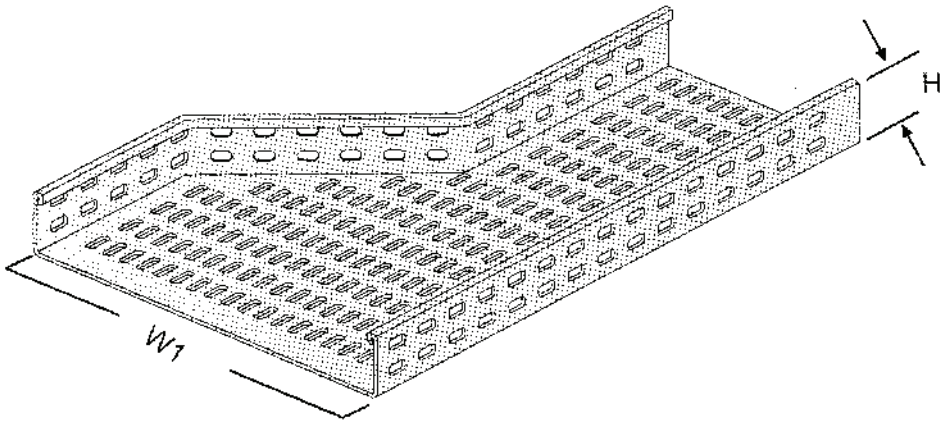


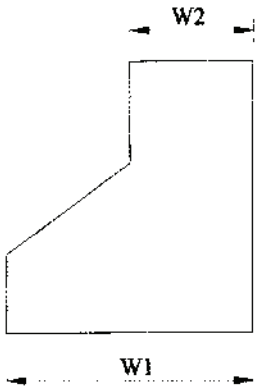
HORIZONTAL CROSS
PART DESCRIPTION: 00CH



CABLE TRAY FITTING

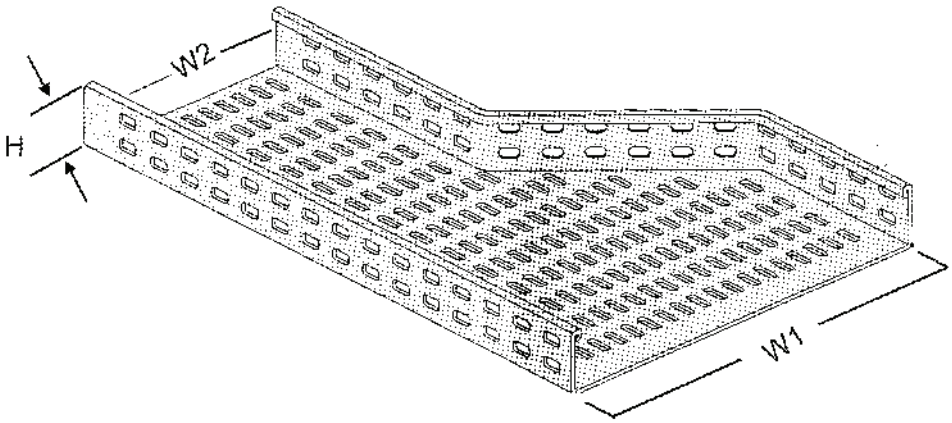
RIGHT HAND REDUCER
PART DESCRIPTION: 0RHR

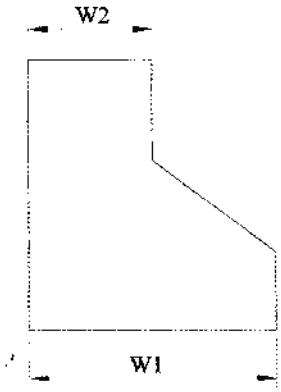




RIGHT HAND REDUCER

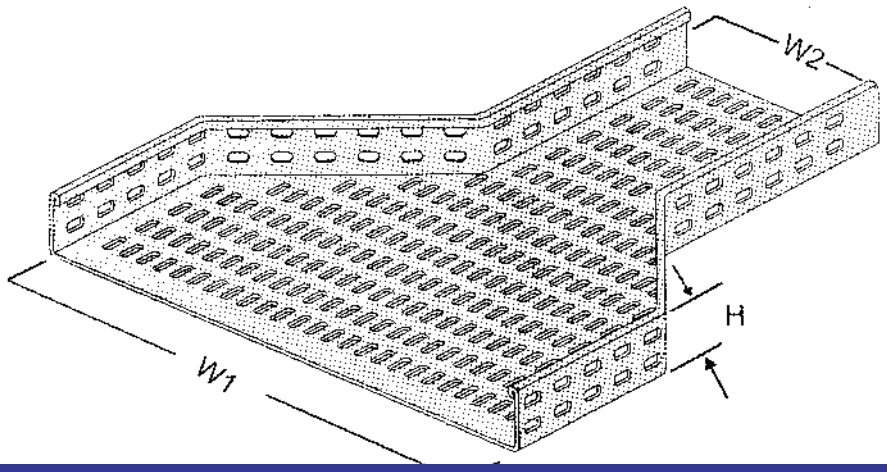
LEFT HAND REDUCER
PART DESCRIPTION: 0LHR

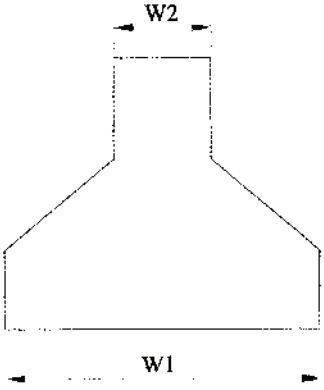




LEFT HAND REDUCER

STRAIGHT REDUCER
PART DESCRIPTION: 00SR

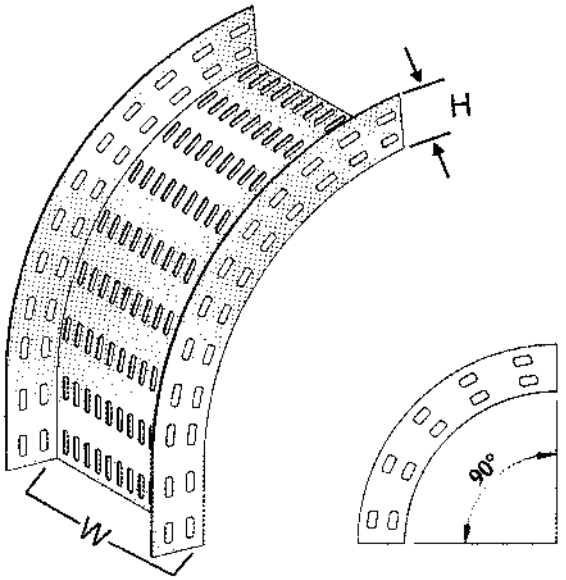




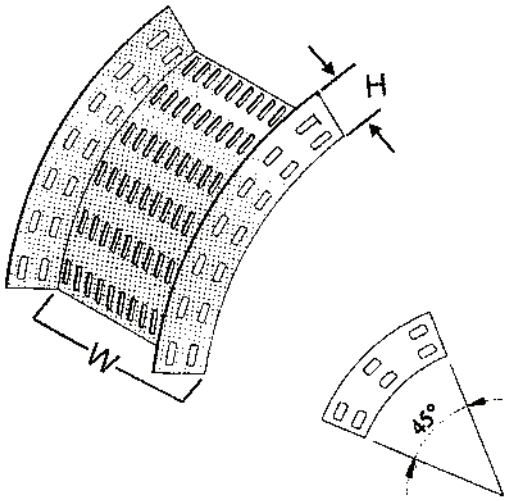
STRAIGHT REDUCER

CABLE TRAY FITTINGS

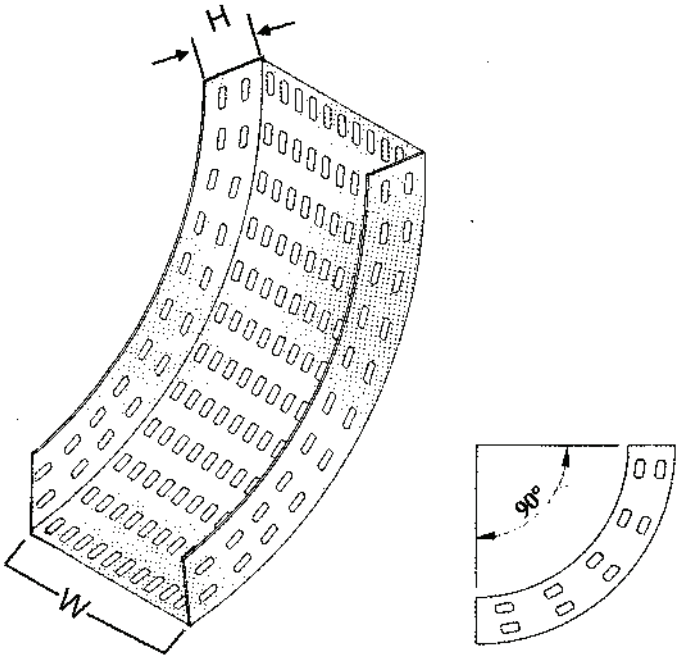
90° OUTSIDE RISER
PART DESCRIPTION: 90OR



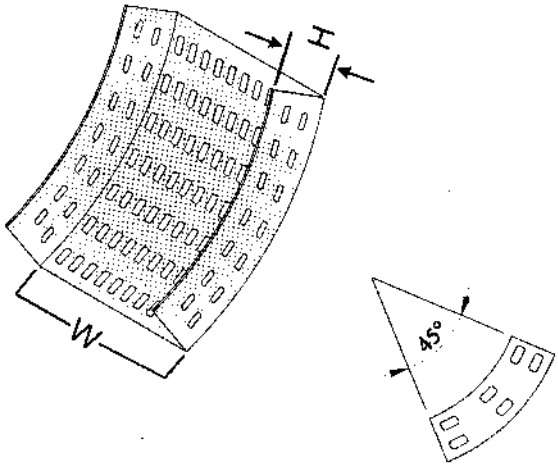
45° OUTSIDE RISER
PART DESCRIPTION: 45OR



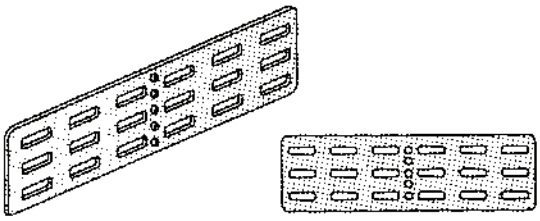
90° INSIDE RISER
PART DESCRIPTION: 90IR



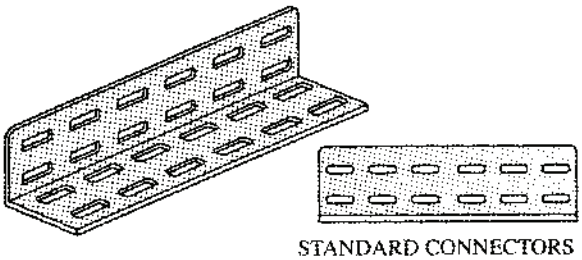
45° INSIDE RISER
PART DESCRIPTION: 45IR



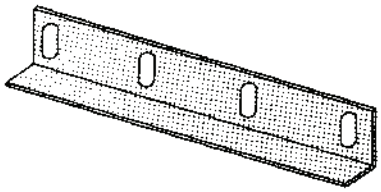
CALBLE TRAY ACCESSORIES



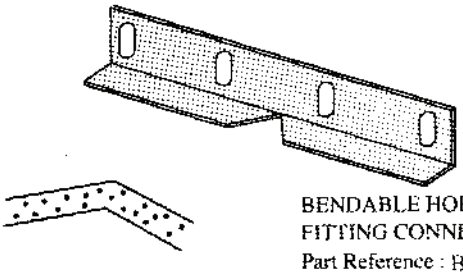
BENDABLE SPLICE PLATE
Part Reference : BSP : 2



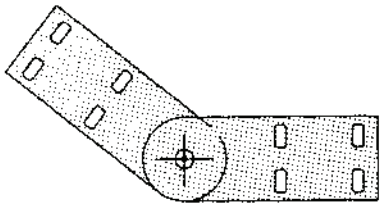
STANDARD CONNECTORS
50 x 50 x 260 mm
75 x 50 x 260 mm
25 x 50 x 260 mm
Part Reference : S.C.I



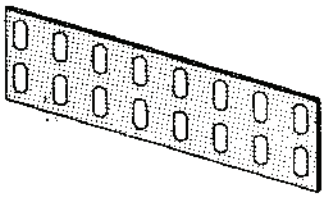
HORIZONTAL FITTING CONNECTOR
Side Height: 30mm & 60mm
Part Reference: HFC 4



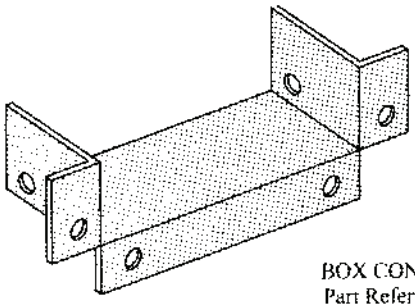
BENDABLE HORIZONTAL
FITTING CONNECTOR
Part Reference : BHFC 3



VERTICAL ADJUSTABLE
CONNECTOR
Part Reference : VAC 6



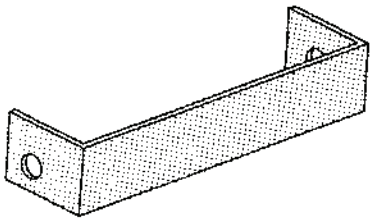
STANDARD FLAT CONNECTOR
Side Height: 30 to 100 mm
Part Reference : SFC 5



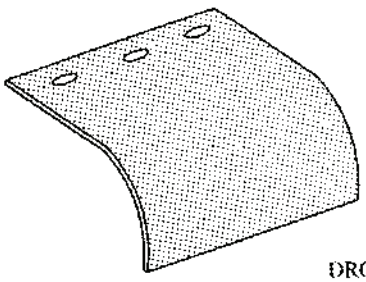
BOX CONNECTOR
Part Reference : BC 8



GROUND BONDING
JUMPER
Part Reference : GBJ 7



BLIND END
Part Reference : BEU



DROP OUT
Part Reference : DO 9

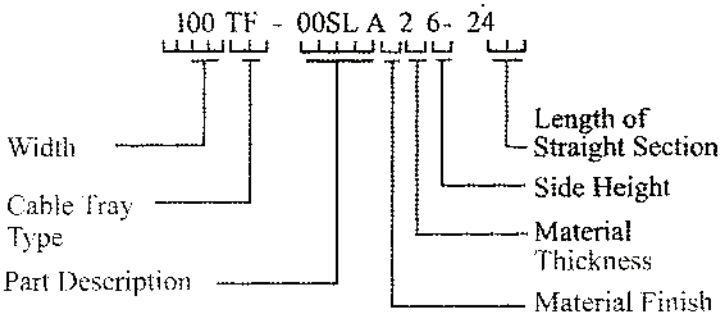
CALBLE TRAY ORDERING CHARTS

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

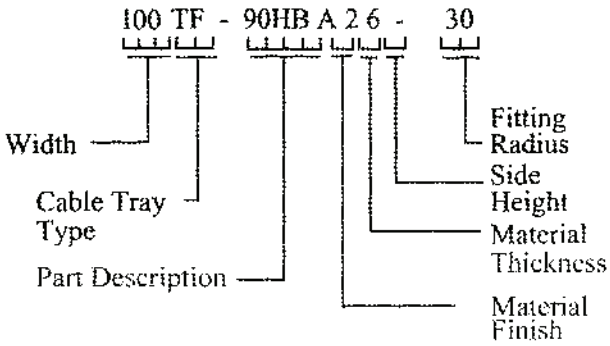
Note: All dimensions are in millimeters, unless otherwise specified.

PART NUMBERING SYSTEM

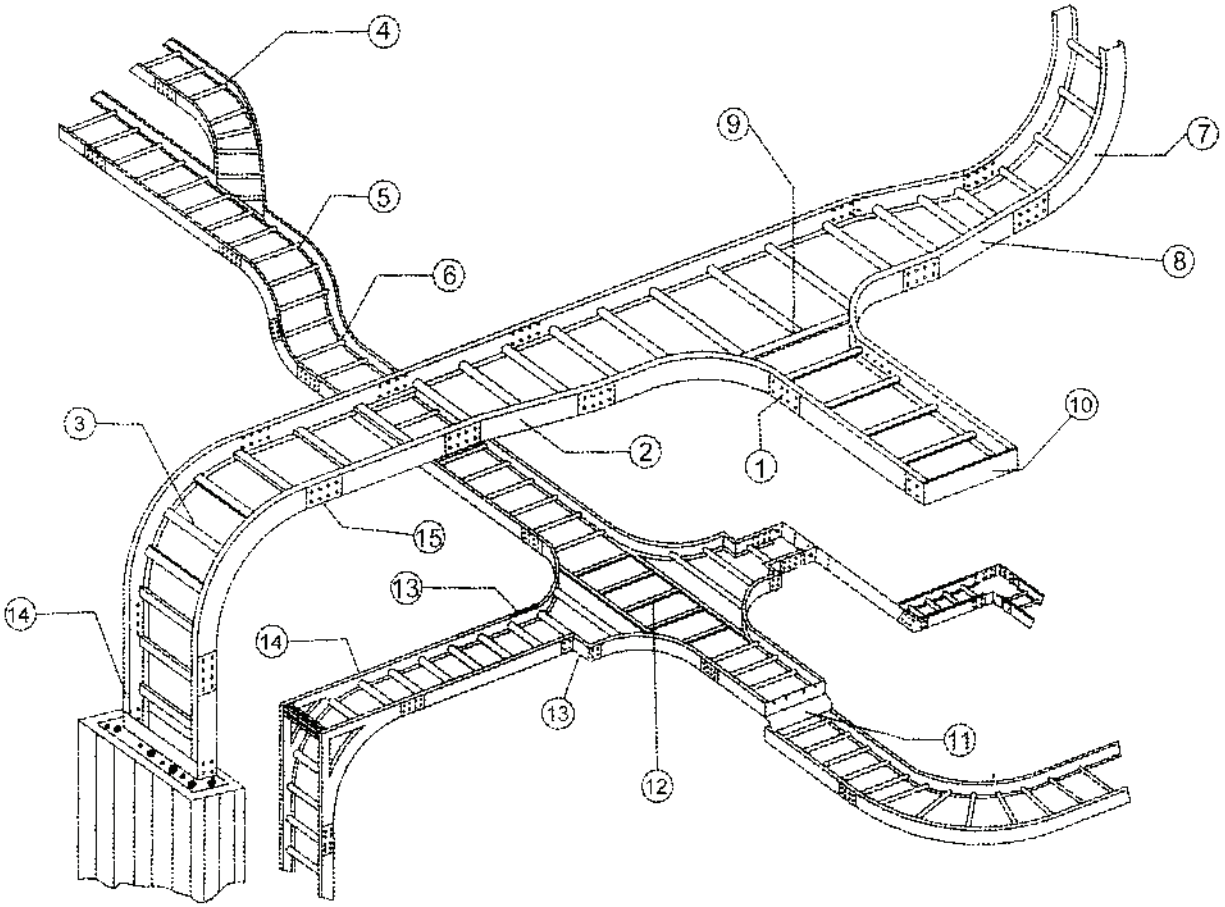
STRAIGHT SECTION



FITTING SECTION



PRODUCT RANGE
CABLE LADDER SYSTEM



1 - JOINT CONNECTOR
2 - RIGHT HAND OFFSET REDUCFR
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 SYSTEM
GENERAL INFORMATION

1- LIGHT DUTY CABLE LADDER

SIDE RAIL HEIGHT mm	RUNG SPACING mm	RUNG SIZE mm	METAL THIKNESS mm
90	300	25	1.50
105		28	

2- MEDIUM DUTY CABLE LADDER

SIDE RAIL HEIGHT mm	RUNG SPACING mm	RUNG SIZE mm	METAL THIKNESS mm
120	250	25	1.50

3- HEAVY DUTY CABLE LADDER

SIDE RAIL HEIGHT mm	RUNG SPACING mm	RUNG SIZE mm	METAL THIKNESS mm
155	200 - 225	25	2.0
180			

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

CABLE LADDER ORDERING CHART

WIDTH (mm)	CABLETRAY LADDER TYPE	RUNG TYPE	PART DESCRIPTION	MATERIAL	SIDE RAIL HEIGHT	RUNG SPACING	LENGTH/ RADIUS
	HEAVY DUTY	**HEAVY DUTY**					
150	TYPE-TC0	U U-Profile Rungs	**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 - Right Branch **00SV** - Vertical Support Elbow **00TV** - Vertical Tee	**A** Mill Galvanized	**2** 50mm	**15** 150mm	
200 250 300 350 450 500 600	**TYPE-TR0** With Return Flange	**O** Round Tubular		**B** HDGAF	**3** 75mm	**20** 200mm	**24** 2.44 meters
					4 100mm	**25** 250mm	**30** 3meters
750	**MEDIUM TO HEAVY DUTY**	**MEDIUM TO HEAVY DUTY**		**C** Aluminum	**5** 125mm	**30** 300mm	**36** 3.60 meter
900	TYPE-TC1	U U-Profile Rungs					**FITTING RADIUS**
1000 1200 1500	**TYPE-TR1** With Return Flange			**MATERIAL THICKNESS**	**6** 133mm		**30** 300mm
					7 150 mm		**60** 600mm
	LIGHT TO MEDIUM DUTY	**LIGHT TO MEDIUM DUTY**		**2** 1.20mm			**90** 900mm
	TYPE-TC2	U U-Profile Rungs		**3** 1.50mm			
	TYPE-TR2 With Return Flange	**R** Rectangular Pipe Rungs		**4** 2.00mm			

CABLE LADDER PART NUMBER SYSTEM

STRAIGHT SECTION

600 TR0-00SL B U 6-20-24

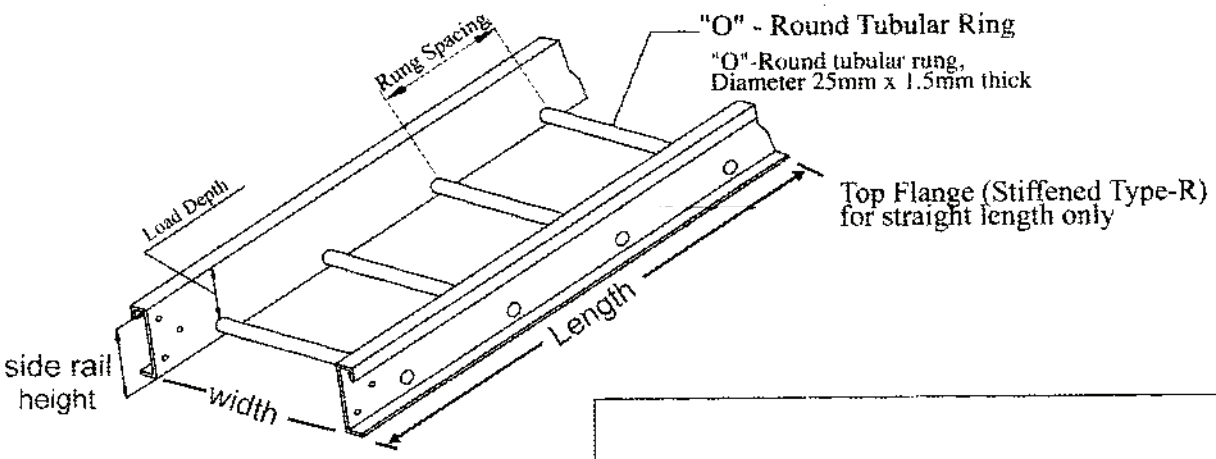
- 600 — Width
- TR0 — Cable Ladder Type
- 00SL — Part Description
- B — Material
- U — Material Thickness
- 6 — Side Height
- 20 — Rung Spacing
- 24 — Length

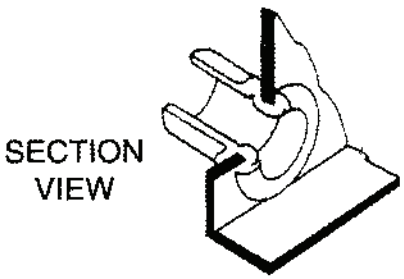
FITTING SECTION

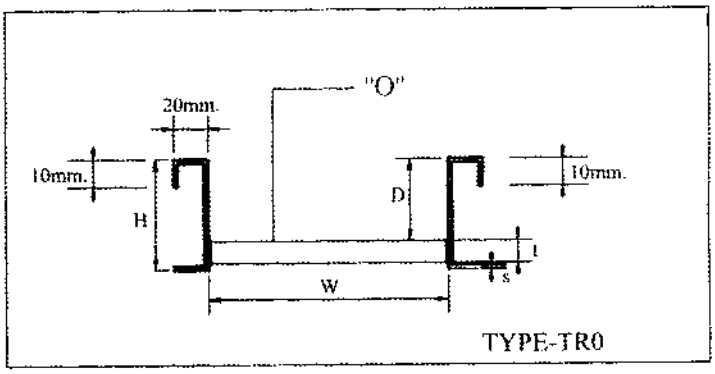
600 0-90HB-B 4-30

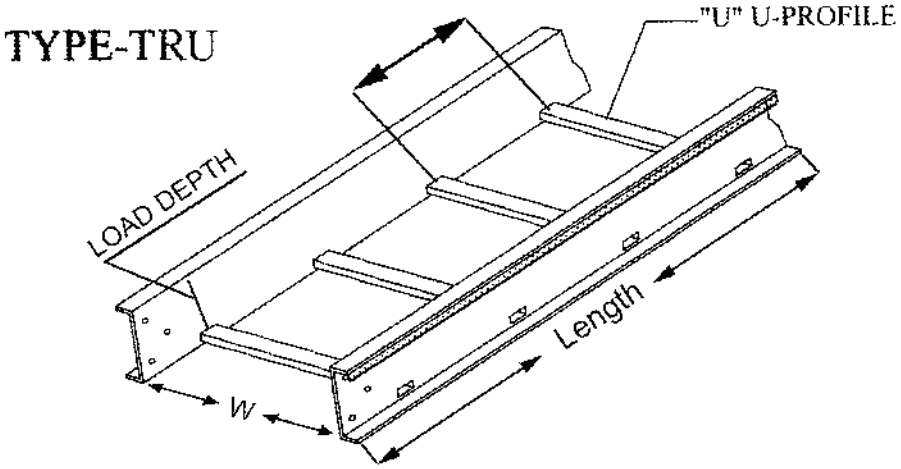
- 600 — Width
- 0 — Rung Type
- 90HB — Part Description
- B — Material
- 4 — Side Height
- 30 — Fitting Radius

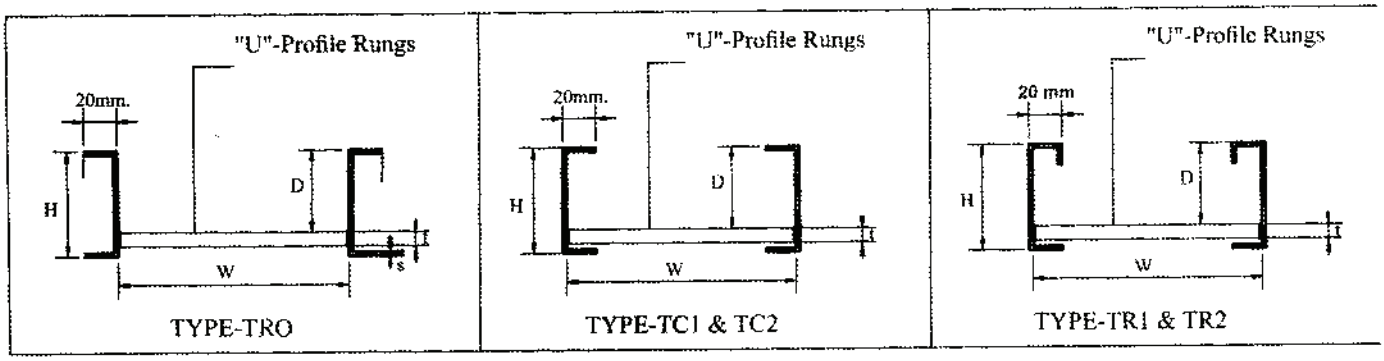
CABLE LADDER ORDERING GUIDE





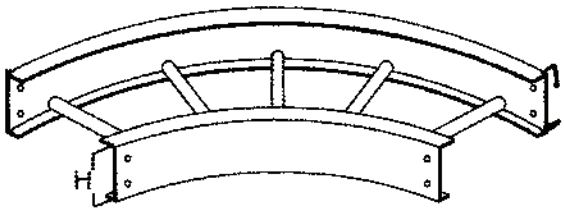






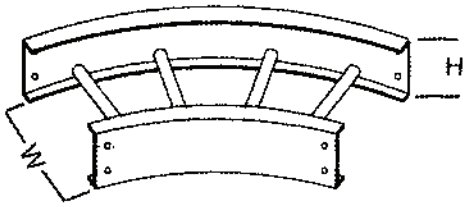
CABLE LADDER FITTINGS

PART DESCRIPTION: 90HB



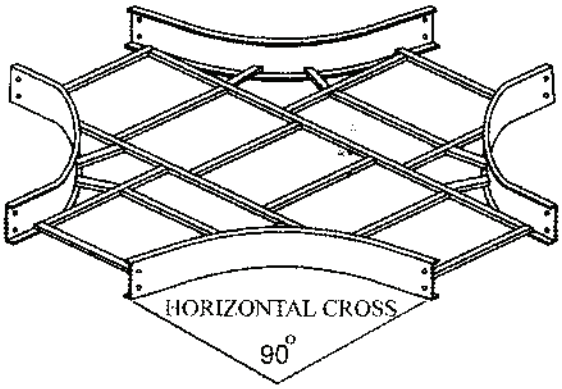
90 DEG. HORIZONTAL BEND

PART DESCRIPTION: 45HB

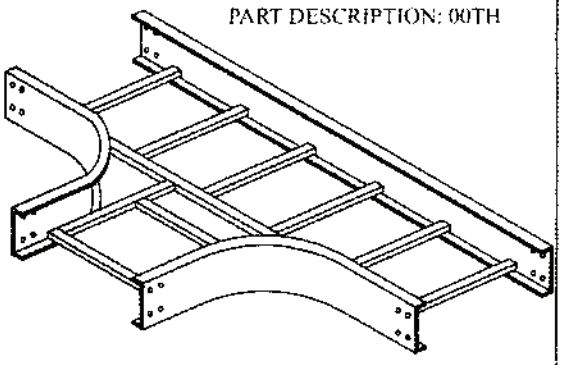


45 DEG. HORIZONTAL BEND

PART DESCRIPTION: 00CH

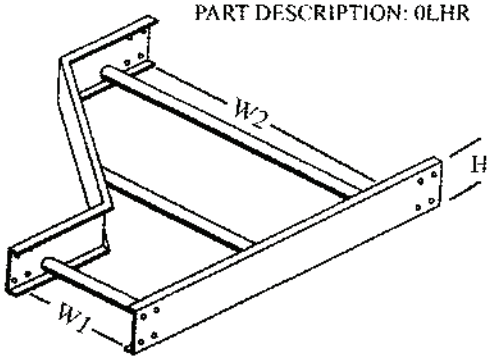


PART DESCRIPTION: 00TH



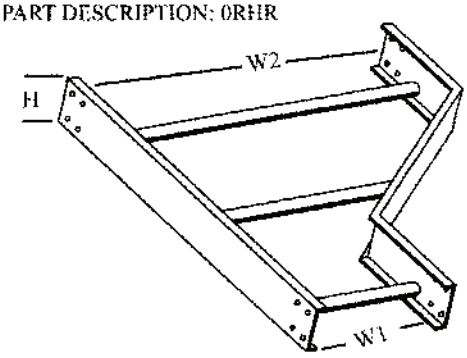
HORIZONTAL Tee

PART DESCRIPTION: 0LHR



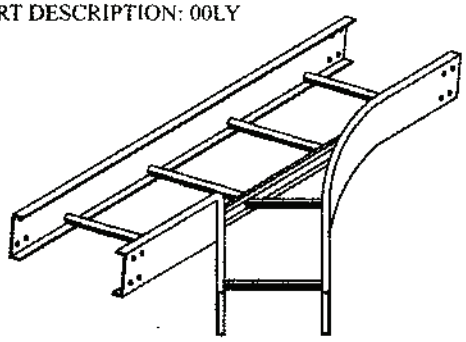
LEFT HAND REDUCER

PART DESCRIPTION: 0RHR



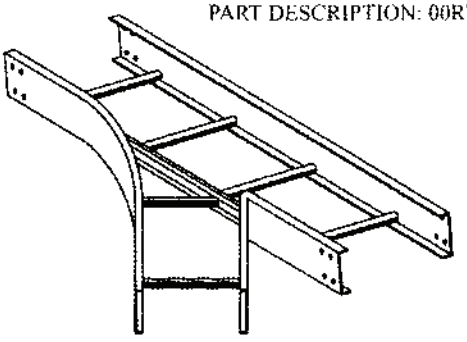
RIGHT HAND REDUCER

PART DESCRIPTION: 00LY



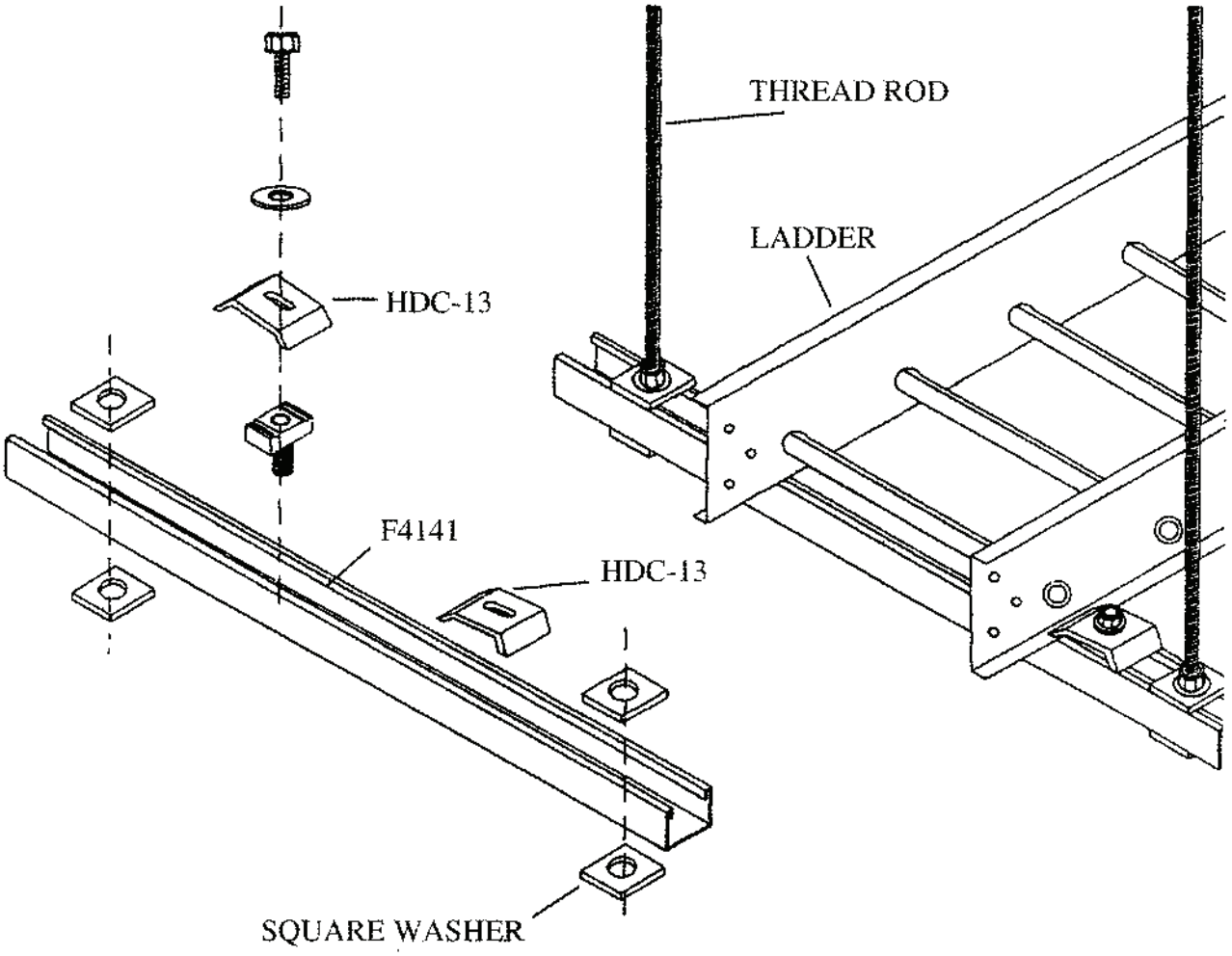
Y - WYE BRANCH LEFT

PART DESCRIPTION: 00RY

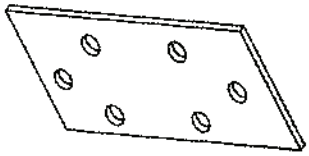


Y - BRANCH RIGHT

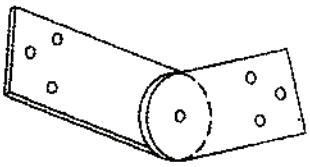
ACCESORIES FOR LADDER



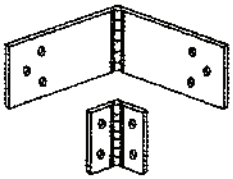
CABLE LADDER ACCESSORIES
CONNECTORS



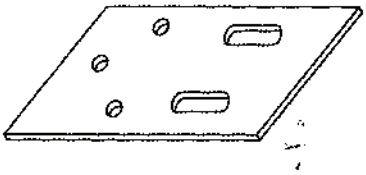
STANDARD CONNECTOR
PART REFERENCE : LSC 1



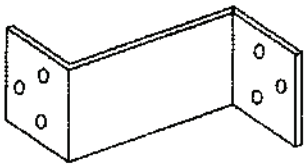
VERTICAL ADJUSTABLE
CONNECTOR
PART REFERENCE : VAC 2



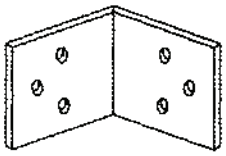
HORIZONTAL ADJUSTABLE
CONNECTOR
PART REFERENCE : HAC 3



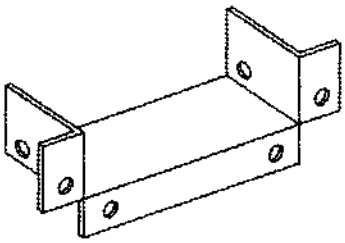
EXPANSION CONNECTOR
PART REFERENCE : LCE 4



REDUCING CONNECTOR
PART REFERENCE : LCR 5



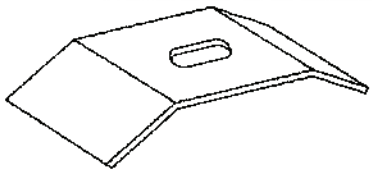
90 DEG. ANGLE CONNECTOR
PART REFERENCE : A90 - 6



BOX CONNECTOR
PART REFERENCE : LCB 7

SIDE HT.	MATERIAL	PART REFERENCE
2 50 mm 3 75 mm 4 100 mm 5 125 mm 6 133 mm 7 150 mm	B Hot Dip Galvanized (H.D.G.A.F.) C Aluminum	- LSC 1 - LCE 4 - VAC 2 - HAC 3 - LCR 5 - A90 6 - LCB 7

CLAMPS

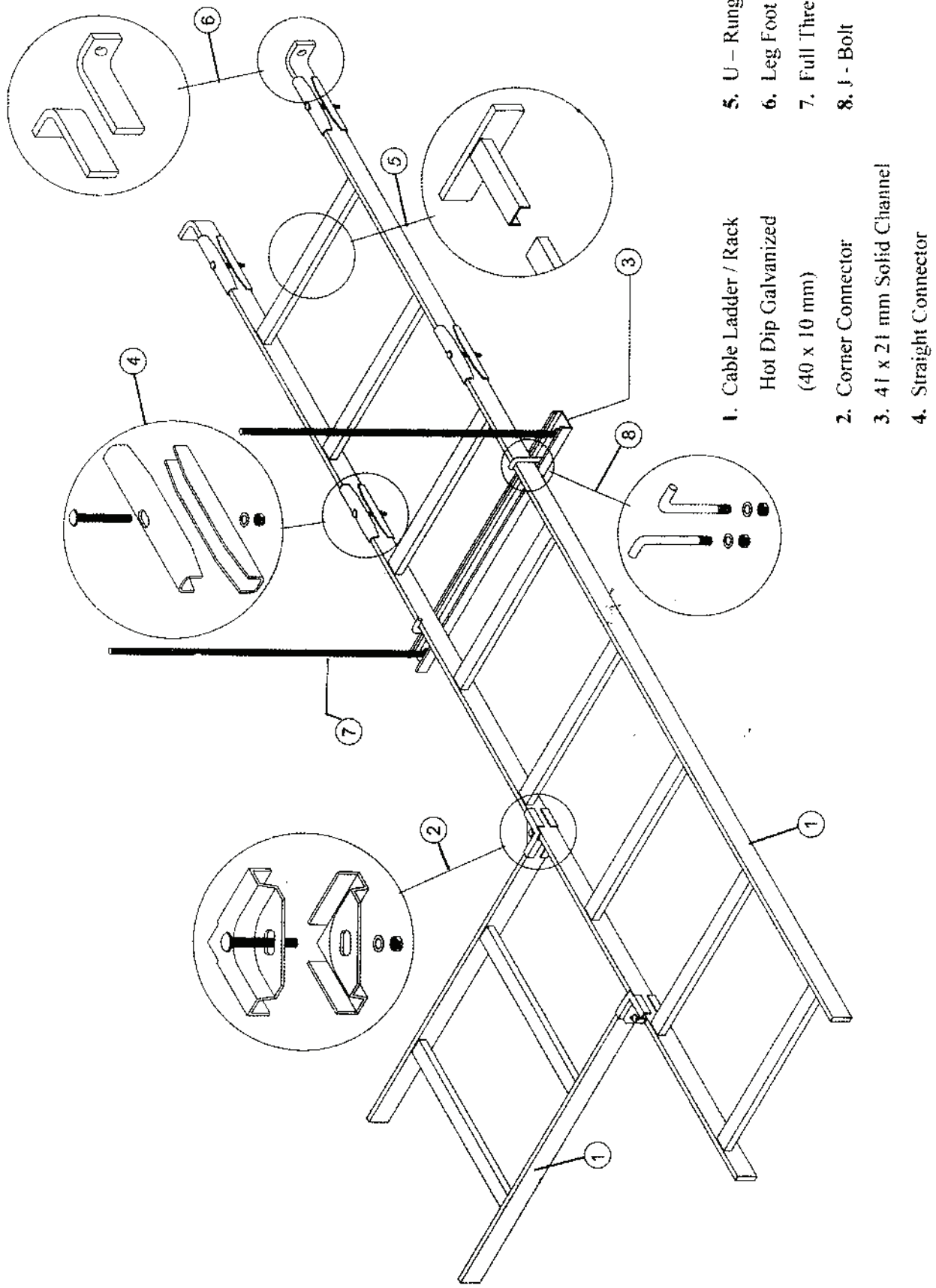


HOLD DOWN CLAMP
PART REFERENCE : HDC 13

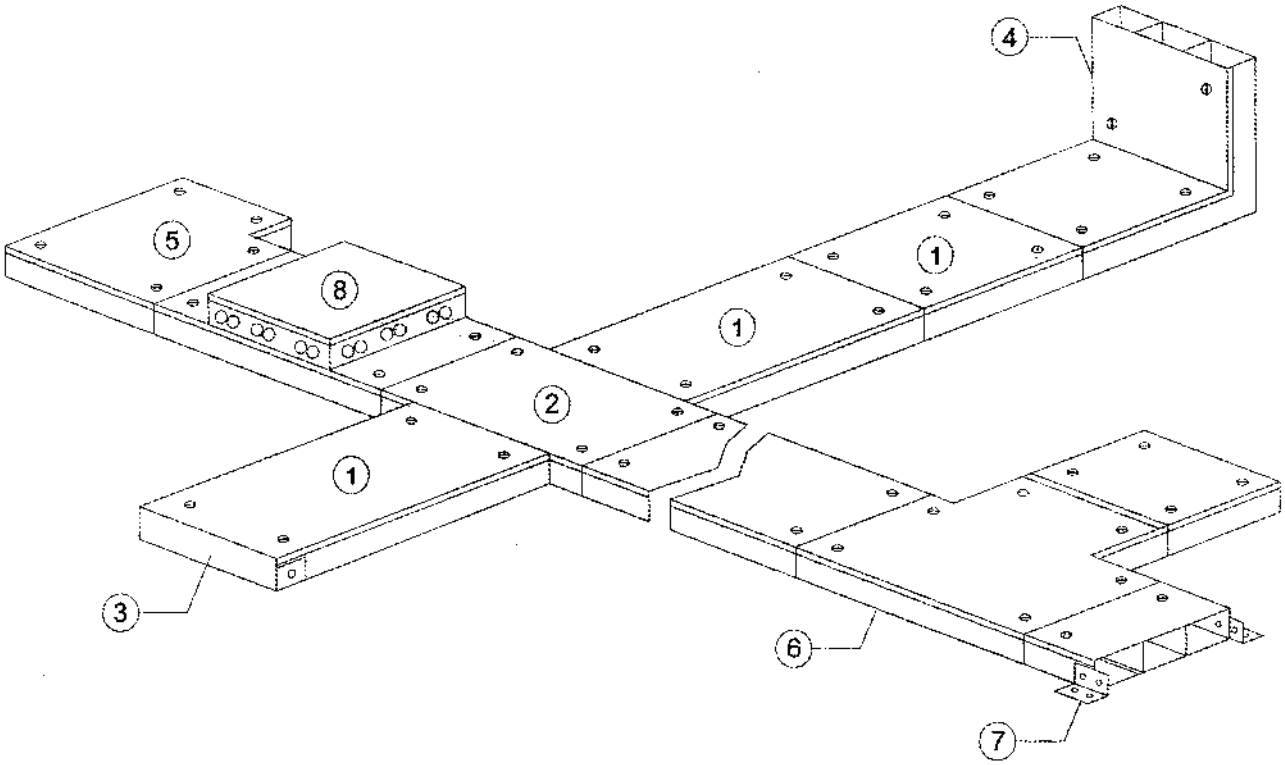


EXPANSION GUIDE
PART REFERENCE : EGZ

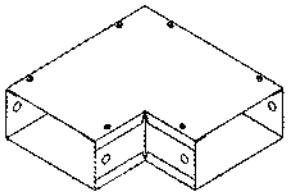
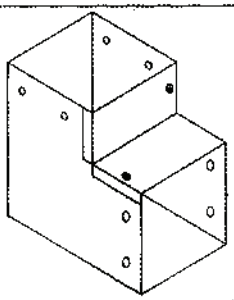
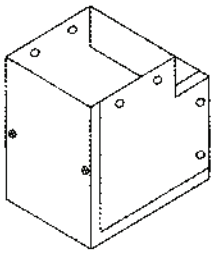
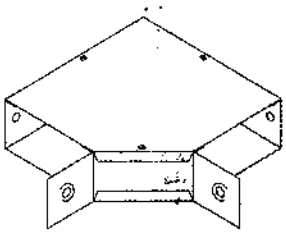
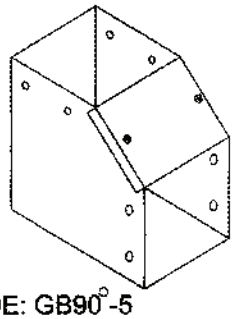
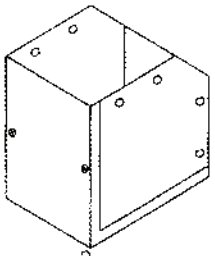
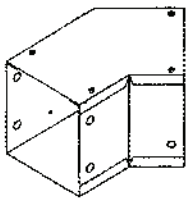
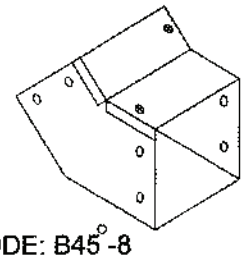
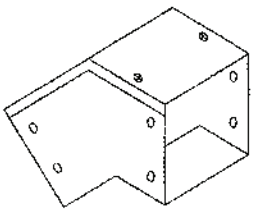
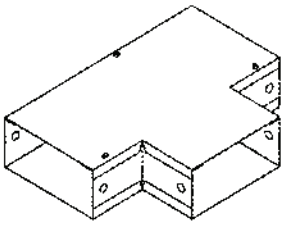
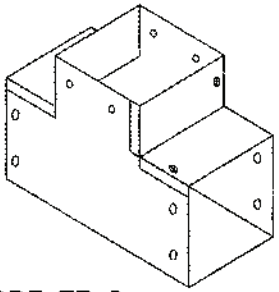
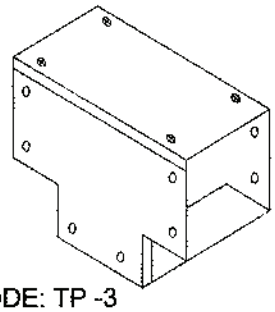
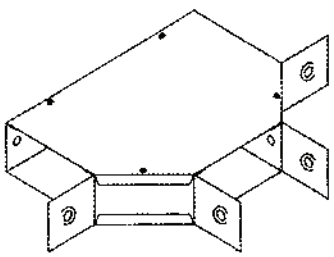
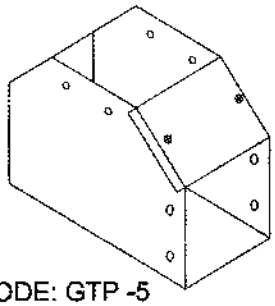
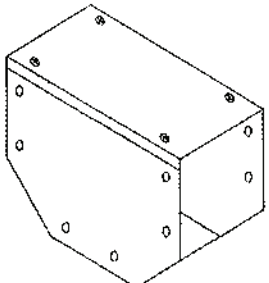
SHELTER CABLE LADDE/RACK



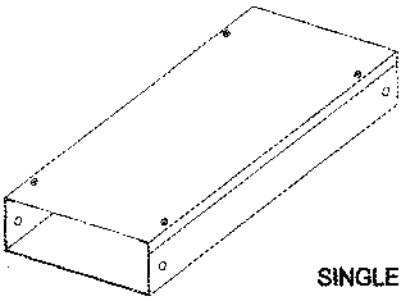
PRODUCT - RANGE
IN- CAVITY TRUNKING



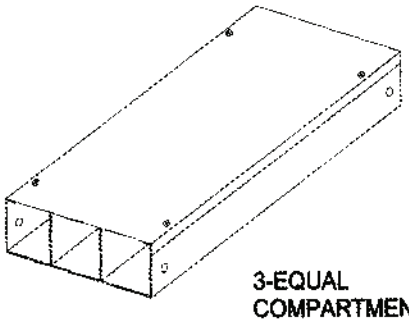
1	METAL TRUNKING	5	90° ANGLE
2	4-WAY JUNCTION BOX	6	3-WAY JUNCTION BOX
3	STOP END	7	CONNECTOR
4	90° RISER BEND	8	TAP-OFF UNIT

	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

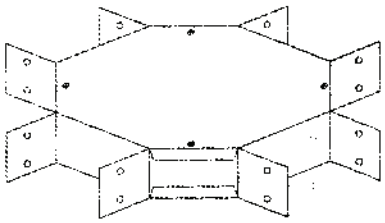
CABLE TRUNKING / WIREWAY
OVER FLOOR TRUNKING ACCESSORIES



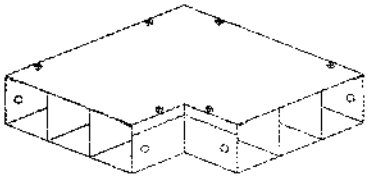
SINGLE COMPARTMENT
OSL-1



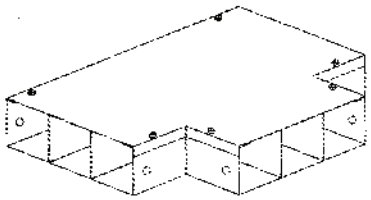
3-EQUAL
COMPARTMENT - OSL 3



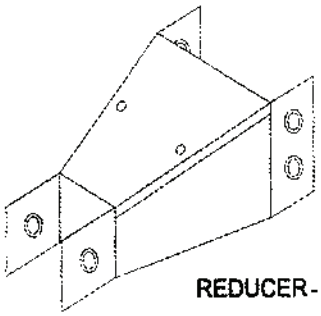
HORIZONTAL CROSS (CH)



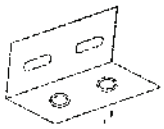
3-COMPARTMENTS 90° BEND
COVER ON TOP -90 BH



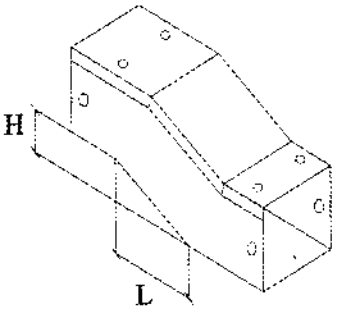
3-COMPARTMENTS Tee PIECES
COVER ON TOP - OTH



REDUCER - OOR



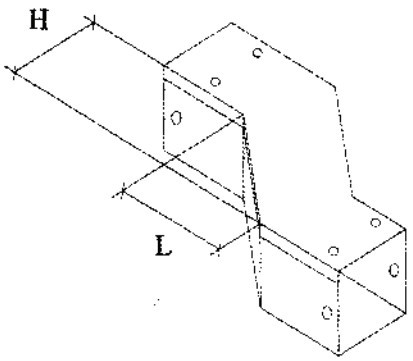
ANGLE CONNECTOR - SCS



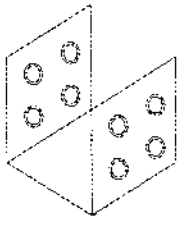
VERTICAL OFFSET - OVO



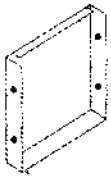
FISH PLATE CONNECTOR



HORIZONTAL OFFSET - OCH



U-CONNECTOR - OUC



END CAP - OEC

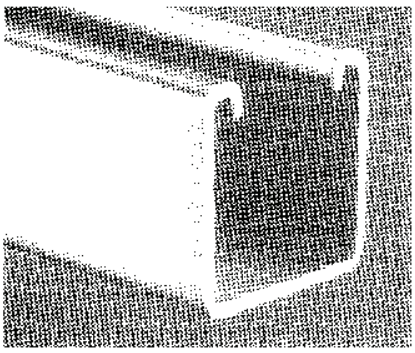
The Most Complete Metal Framing System

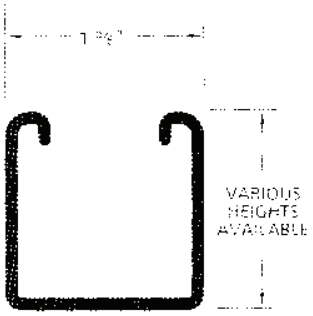
Adjustability, demountability and reusability are engineered into each of our channel series. Each series offers channels of varying depth and gage plus a complete line of fittings and accessories

1⅝" (41mm) width

Designed to carry the heavy loads and provide the widest variety of applications, the 1⅝" 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.

F4141-S

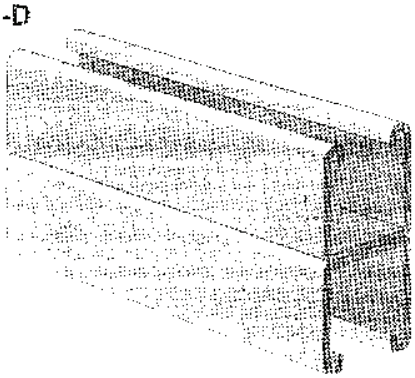


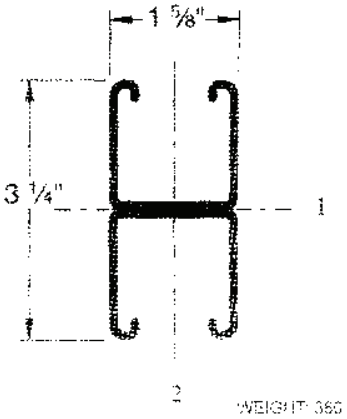


1⅝" + 1⅝" 41 mm + 41 mm Width BACK TO BACK

Designed to carry the heaviest loads and provide the widest variety of applications. The 1⅝" 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

F4141-D

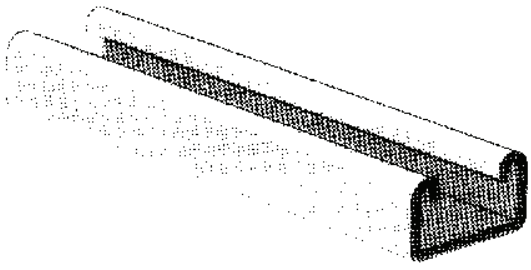


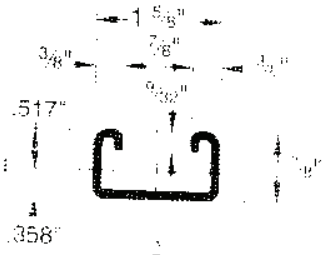


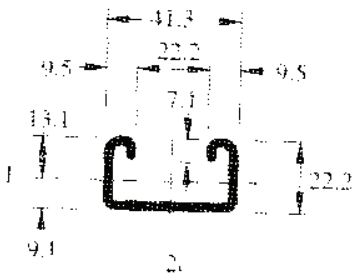
13/16" (21 mm) Width

A unique half-size reduction of the 1⅝" Channel-width series, the smaller channel size can be used to carry ligt loads economically in applications such as instrumentation, retail display and light-duty laboraty supports. It also Provides the flexibility found in all Unistrut framing systems.

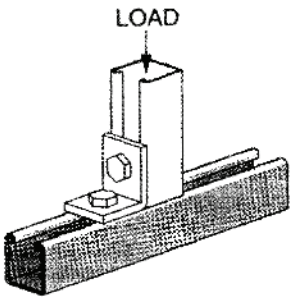
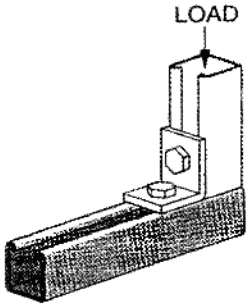
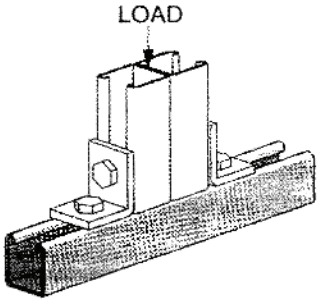
F2141





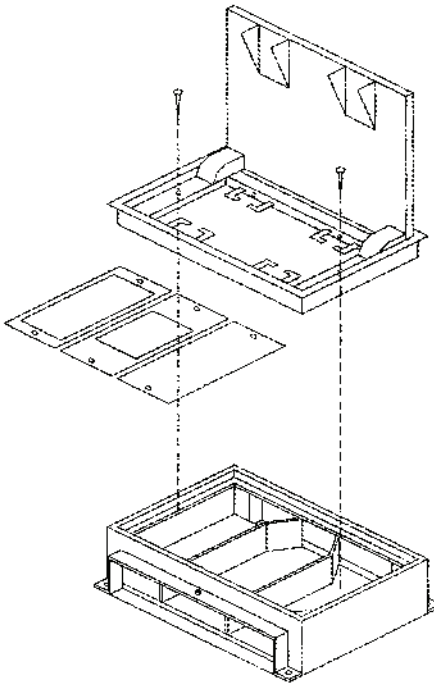


BEARING LOADS ON CHANNELS

	Bearing Length 1⅝" (41 mm) 		Bearing Length 1⅝" (41 mm) 		Bearing Length 3¼"(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
F 2141	2200	9.8	1700	7.6	3500	15.6
F2141	3400	15.1	2600	11.6	4800	21.4

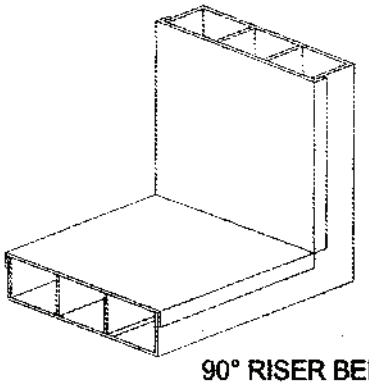
Safety Factor — 2½

ACCESORIES
UNDER FLOOR TRUNKING

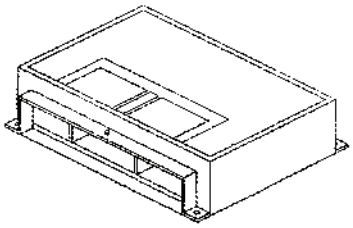


HINGED LID ASSEMBLY
CODE: HLA -10

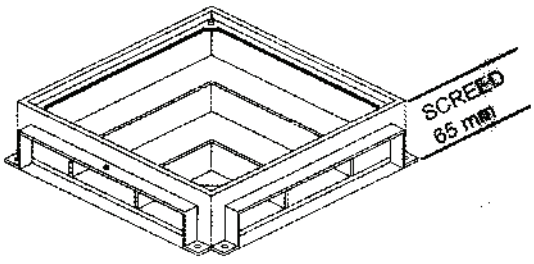
SERVICE OUTLET BOX
CODE: SOB -12



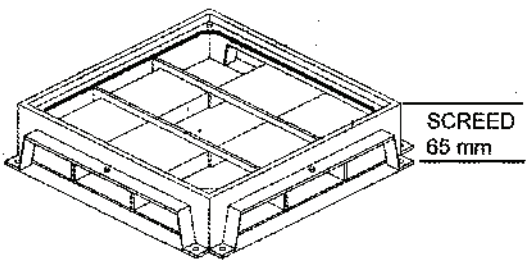
90° RISER BEND
CODE: 90RB -3



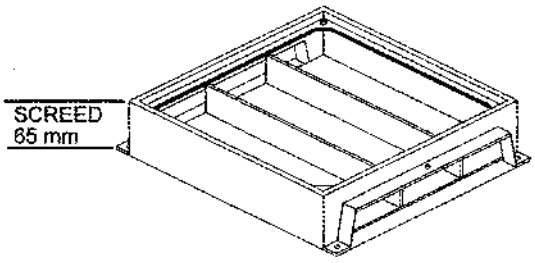
SERVICE OUTLET BOX
WITH COVER
CODE: SOBW-13



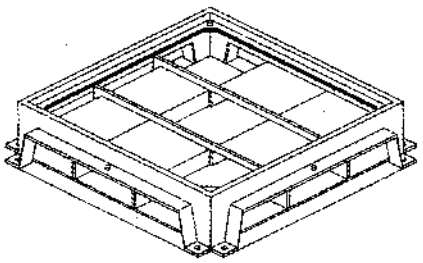
90° ANGLE JUNCTION BOX
CODE: 90JB -4



3-WAY JUNCTION BOX
CODE: JB -9

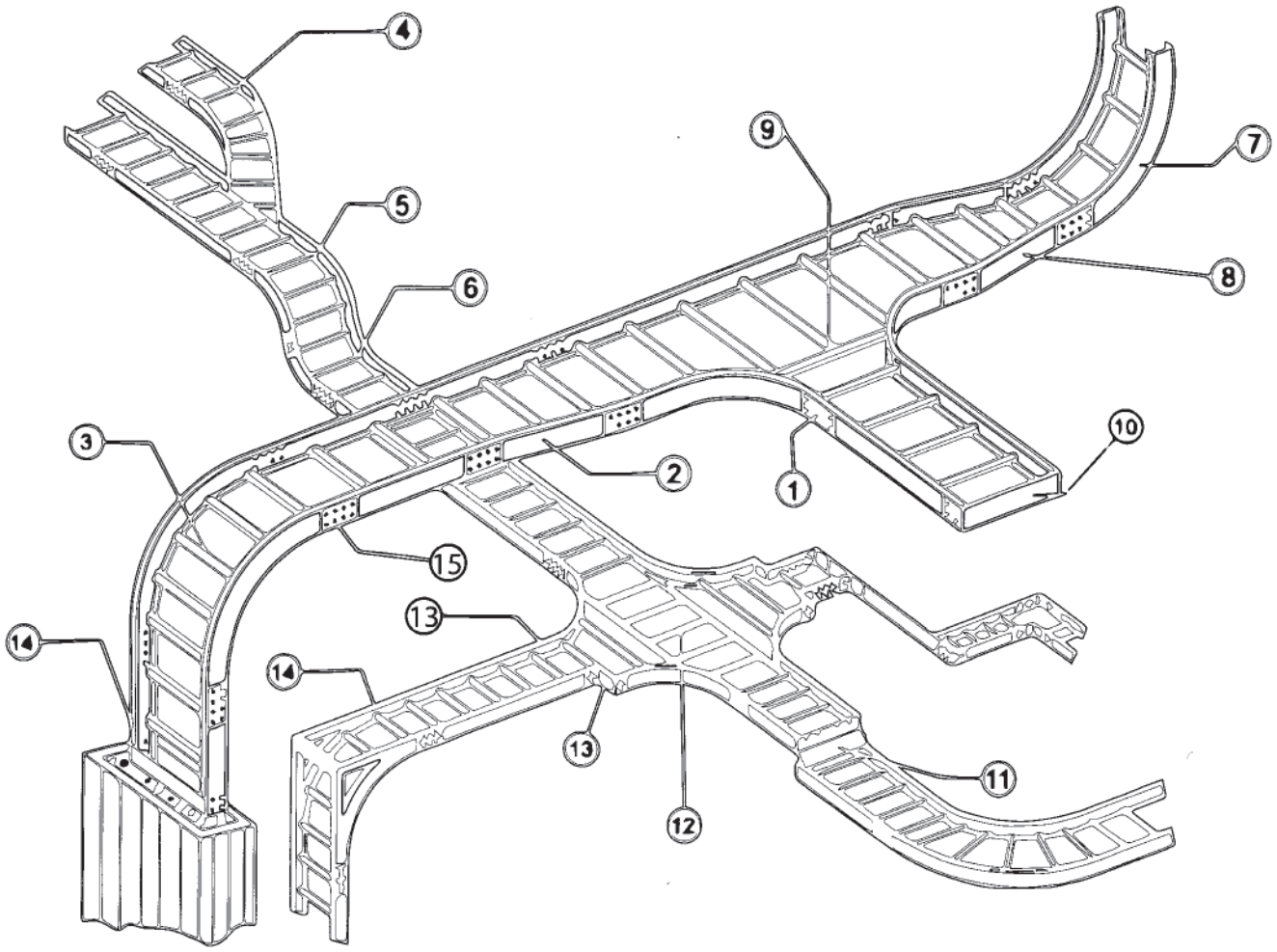


2-WAY JUNCTION BOX
CODE: 2WJB -7



4-WAY JUNCTION BOX
CODE: 4WJB -2

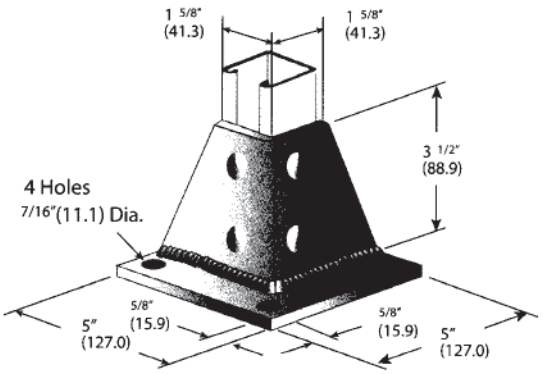
CABLE LADDER SYSTEM



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- INDIDE 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 CONNETORS

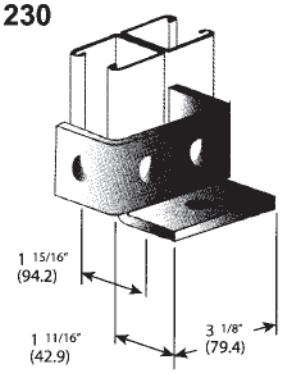
POST BASES

POF41 - 229



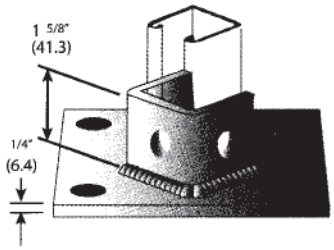
Wt/C 297Lbs (134.8 kg)

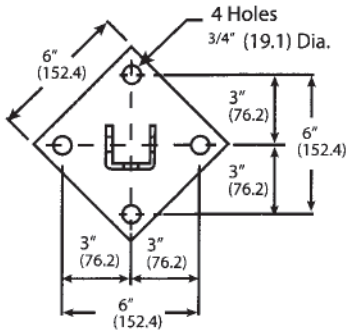
POF41 - 230

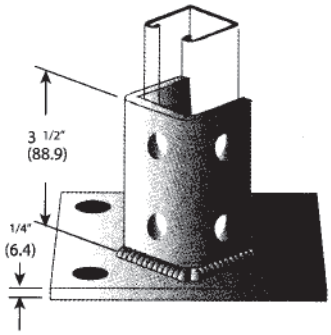


Wt/C 116Lbs (52.6 kg)

POF41 - 231



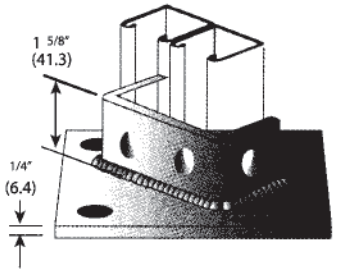




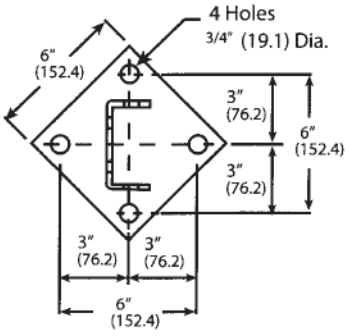
Wt/C 307Lbs (139.3 kg)

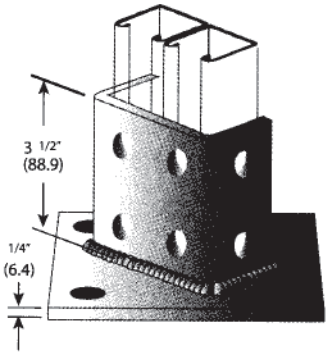
Wt/C 373 Lbs (169.2 kg)

POF41 - 233



POF41 - 234





Wt/C 325Lbs (147.4 kg)

Wt/C 408 Lbs (185.1 kg)

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

CABLE LADDER SYSTEM

WIDTH (mm)	CABLETRAY LADDER TYPE	RUNG TYPE	PART DESCRIPTION	MATERIAL	SIDE RAIL HEIGHT	RUNG SPACING	LENGTH/ RADIUS
	HEAVY DUTY	**HEAVY DUTY**	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 - Rigth Hand Reducer 0LHR - Left Hand Reducer 00SR - Straight Reducer 00LY - Y - Branch Left 00RY - Y - Right Branch 00SV - Vertical Support Elbow 00TV - Vertical Tee	A Mill Galvanized B HDGAF C Aluminum	2 50mm 3 75mm 4 100mm 5 125mm 6 133mm 7 150mm	15 150mm 20 200mm 25 250mm 30 300mm	24 2.44 meter 30 3 meter 36 3.60 meter
150 200 250 300 350 450 500	TYPE-TC0 TYPE-TR0 With Retrun Flange	U U-Porfile Rungs O Round Tubular					
600 750	**MEDIUM TO HEAVY DUTY**	**MEDIUM TO HEAVY DUTY**					**FITTING RADIUS**
900 1000 1200 1500	TYPE-TC1 TYPE-TR1 With Retrun Flange	U-Profile Runge		**MATERIAL THICKESS** 2 1.20mm 3 1.50mm 4 2.00mm			30 300mm 60 600mm 90 900mm
	LIGHT TO HEAVY DUTY	**LIGHT TO HEAVY DUTY**					
	TYPE-TC2 TYPE-TR2 With Retrun Flange	U U-Profile Runge R Rectangular Pipe Rungs					

CABLE LADDER PART NUMBER SYSTEM

STRAIGHT SECTION

600 TR0-00 SL B U 6-20-24

- Width
- Cable Ladder Type
- Part Description
- Material
- Material Thickness
- Side Height
- Rung Spacing
- Length

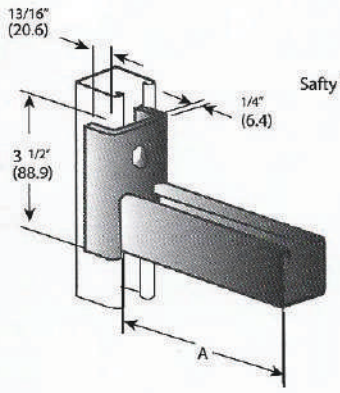
FITTING SECTION

600 0-90HB-B 4-30

- Width
- Rung Type
- Part Description
- Material
- Side Height
- Fitting Radius

BRACKETS

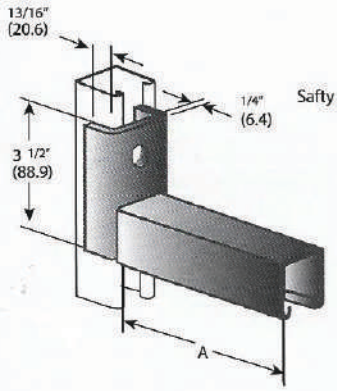
BF41 - 145



Safty Factor 2 1/2

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

BF41 - 146

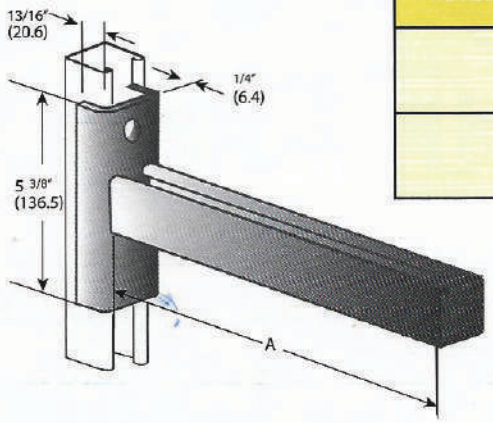


Safty Factor 2 1/2

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

BF41 - 147

Safty Factor 2 1/2

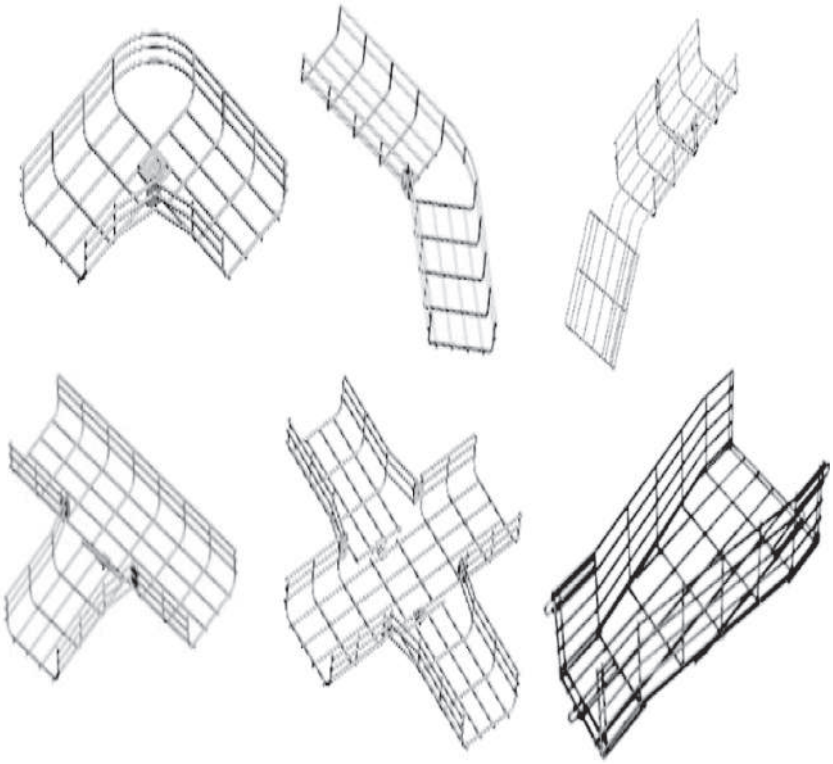


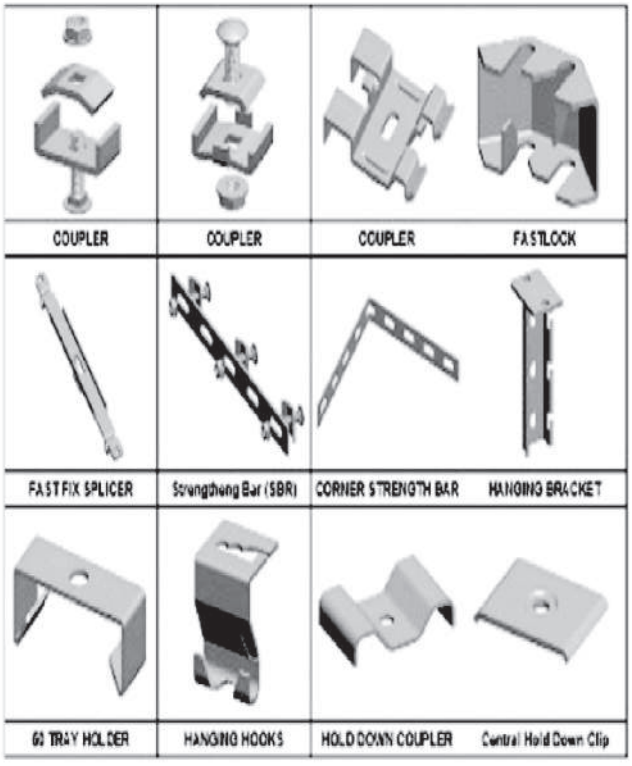
Part Number	"A"		Weight/C		Vertical Channel		Uniform Design Load	
	In	mm	Lbs	kg	Part No.	Gage	Las	kN
	18	457.2	436	197.8		12 14 16	600 450 300	2.7 2.0 1.3
	24	609.6	536	243.2		12 14 16	450 330 220	2.0 1.5 1.0

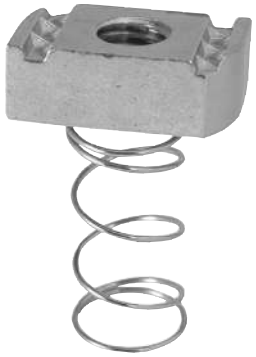
Cable Basket Tray

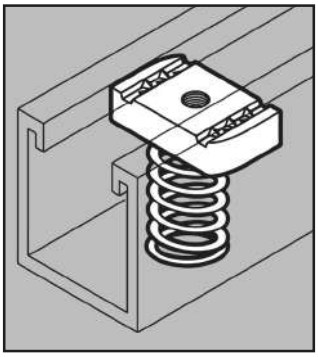
H mm	A mm	D mm	WEIGHT (Kg\mt)
50	50	4.0	640
50	100	4.0	900
50	150	4.0	1040
50	200	4.0	1210
50	250	4.0	1460
50	300	5.0	2490
50	400	5.0	3120
50	500	5.0	3760
50	600	5.0	4390





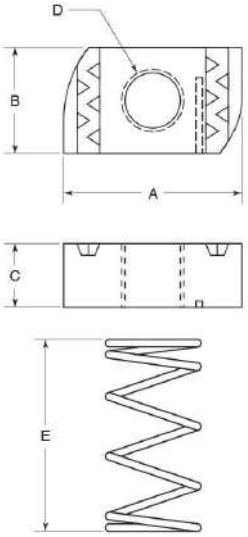






APPLICATION

- *Aid in securing and gripping components in a strut system*
- *Manufactured in stainless steel to help prevent corrosion*
- *Can be installed using ordinary hand tools and require little maintenance or repair*
- *Provided in a bright, polished finish that does not require touch up or painting*



PRODUCT DETAILS

Material:
-Channel Nut: 316 SS
-Spring: 302 SS

Standards:
MPIF 35, ASTM A313

Country of Origin:
100% Made in USA

Part Number	Size	Weight/ 100 (lbs.)	Dimension (in.) A	B	C	D	E
5911	¼ in.	10	1.39	0.82	0.38	¼ - 20 UNC	1.50
5912	5/16 in.	9	1.39	0.82	0.38	5/16 - 18 UNC	1.50
5913	⅜ in.	9	1.39	0.82	0.38	⅜ - 16 UNC	1.50
5914	½ in.	11	1.39	0.82	0.50	½ - 13 UNC	1.50
5915	⅝ in.	12	1.39	1.20	0.45	⅝ - 11 UNC	1.50
5916	¾ in.	13	1.39	1.20	0.45	¾ - 10 UNC	1.50

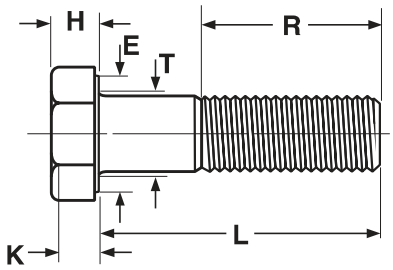
Channel Nut (without spring)

Part Number	Size	Weight/ 100 (lbs.)	Dimension (in.) A	B	C	D
5901	¼ in.	10	1.39	0.82	0.38	¼ - 20 UNC
5902	5/16 in.	9	1.39	0.82	0.38	5/16 - 18 UNC
5903	⅜ in.	9	1.39	0.82	0.38	⅜ - 16 UNC
5904	½ in.	11	1.39	0.82	0.50	½ - 13 UNC
5905	⅝ in.	12	1.39	1.20	0.45	⅝ - 11 UNC
5906	¾ in.	13	1.39	1.20	0.45	¾ - 10 UNC

STRUCTURAL BOLTS

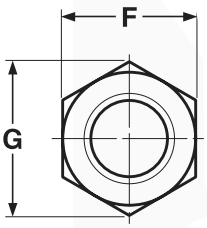
High Strength Friction Grip Bolts (10.9 Gr.)

Standard Specification : BS 4395 Part 2
Equivalent to DIN 6914, 6915
Material : alloy Steel
Strenghth Grade : Class 10.9
Threads : 6H of BS 3643 Part 1 & 2
Surface Finish : Black Hot Dipped Galvanized



DIMENSIONS BOLT

Nominal size and thread diameter d	Pitch of thread P	Diameter of unbreaded shank d		Width across flats S		Width across corner		Transition diameter T	Thickness of head H	
	(Coarse pitch series)	Max.	Min.	Max.	Min.	Max.	Min.	Min.	Max.	Min.
M 12	1.75	12.70	11.30	22	21.16	21.16	23.70	14.7	8.45	7.55
M 16	2.0	16.70	15.30	27	25.16	31.2	29.30	18.7	10.45	9.55
M 20	2.5	20.84	19.16	32	31.00	34.9	35.03	23.24	13.90	12.10
M 22	2.5	22.84	21.16	36	35.00	41.6	30.55	25.24	14.90	13.10
M 24	3.0	24.84	23.16	41	40.00	47.3	45.20	27.24	15.90	14.10
M 27	3.0	27.84	26.16	46	15.00	53.1	50.85	30.84	17.90	16.10
M 30	3.5	30.84	29.16	50	49.00	57.7	56.37	33.84		17.95
M 36	4.0	37.00	35.00	60	58.80	69.3	66.44	40.00		21.95



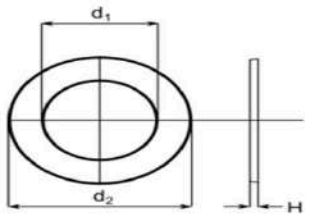


DIMENSIONS HSGG NUT

Nominal size and thread diameter d	Pitch of thread P	Width across flats S		Width across corner G		Diameter of washer face d1		Depth of washer face c	Thickness of nut F	
	(Coarse pitch series)	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Max.	Min.
M 12	1.75	22	21.6	25.40	23.70	22	19.91	0.4	11.55	10.45
M 16	2.0	27	26.16	31.20	29.30	27	24.91	0.4	15.55	11.45
M 20	2.5	32	31.00	35.90	35.03	32	29.75	0.4	18.55	17.45
M 22	2.5	36	35.00	41.00	39.55	36	33.75	0.4	19.65	13.35
M 24	3.0	41	40.00	47.30	45.20	41	38.75	0.5	22.65	21.35
M 27	3.0	46	15.00	53.10	50.85	46	43.75	0.5	24.65	23.35
M 30	3.5	50	49.00	57.70	55.37	50	47.75	0.5	26.85	25.35
M 36	4.0	60	58.80	69.30	66.44	60	57.75	0.5	31.80	30.20

STRUCTURAL BOLTS

F436M Hardened Steel Washers (Matrix) – for use with ASTM A490M Bolts
A490M Washer Dimensions



Nominal Washer Size		M16	M20	M22	M24	M27	M30	M36
d1	max	18.4	22.5	24.5	26.5	30.5	33.6	39.6
	min	18.0	22.0	24.0	26.0	30.0	33.0	39.0
d2	max	34.0	42.0	44.0	50.0	56.0	60.0	72.0
	min	32.4	40.4	42.4	48.4	54.1	58.1	70.1
h	max	4.6	4.6	4.6	4.6	4.6	4.6	4.6
	min	3.1	3.1	3.4	3.4	3.4	3.4	3.4

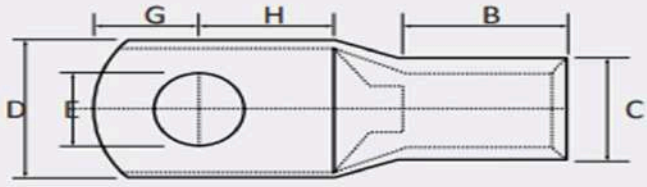
Crimping Type Copper / 2100

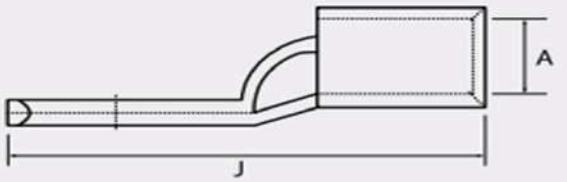
Tubular Cable Terminal Ends

2100









Cable mm²	Stud Hole	Dimensions (mm) A	C	D	G	H	B	J
1.5	6.5	1.8	3.7	10	4	6	6	18
2.5	6.5	2.4	4	10	5	6	8	21
	8.4	2.4	4.2	12	6	9	8	26
4	6.5	3.1	4.8	10	5	6	8	21
	8.4	3.1	5.0	12	6	9	8	26
6	6.5	3.8	5.5	10	5	6	10	24
	8.4	3.8	5.5	12	6	9	10	28
10	6.5	4.5	6.2	11	6	7	10	26
	8.4	4.5	6.2	12	6	9	10	28
16	6.5	5.4	7.1	12	7	7	12	30
	8.4	5.4	7.1	12	7	7	12	30
20	8.4	6	7.7	12	7	7	12	32
25	6.5	6.8	8.8	13	7	7	12	30
	8.4	6.8	8.8	13	7	7	12	30

Tinned Copper Flexible Braids / 2200

Crimped with Connectors/ Terminals

2200







HFT- crimped with lugs

Size mm²	Dimensions (mm) J	E1	E2	Current rating AMP
4	50	6	6	50
	100	6	6	50
	150	6	6	50
	200	6	6	50
10	50	6	6	90
	100	6	6	90
	150	6	6	90
	200	6	6	90
16	100	8.5	8.5	125
	150	8.5	8.5	125
	200	8.5	8.5	125
	250	8.5	8.5	125
	300	8.5	8.5	125
25	100	10	10	160
	150	10	10	160
	200	10	10	160
	250	10	10	160
	300	10	10	160



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