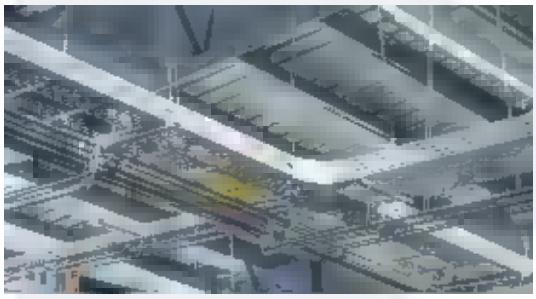
PRODUCT CATALOGUE

BAKRIYA METALWORKS

BAKRIYA METALWORKS COMPANY (BMC)



CABLE MANAGEMENT SYSTEM

PRODUCTS AND SERVICES
(LITERATURE INFORMATION)
For Electrical and Building Infrastructures

2024

رؤيـــة VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

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شركة البكرية للصناعات المعدنية المحدودة
المملكة العربية السعودية - ص.ب ١٦٤٢ جدة ٢١٤٤١
هاتف: ٦٠٠٠ ٦٣٦ ١٢ ٩٦٦+

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BRIEF HISTORY OF THE COMPANY

BAKRIYA METALWORKS COMPANY **(BMC)**, is a Professional Cable Management Production Facility based in the Jeddah Industrial Area, and a member of the Ahmad Al Amoudi Group & BMC Cable Management System has proven to be an ideal choice for cable management in any type of installation.

For many years, our Factory production has been providing effective, efficient, and reliable solutions in Cable Trays, Cable Trunking, Cable Ladders, and Cable Support in Pre-Galvanized, Aluminum, and Hot Dip Galvanized Steel.

BAKRIYA METALWORKS COMPANY **(BMC)** will provide technical, logistical, and sales support for over 50 distributors in Saudi Arabia & the GCC.

BAKRIYA METALWORKS COMPANY **(BMC)** examines every step in the manufacturing process and applies strict procedures to ensure the highest possible quality in every product. The mechanical performance of all products and accessories is tested to the stringent requirements of the international standard NEMA IEC, BS-EN 61537, ISO 9001.

A support team has been assigned to offer installers and engineers innovative products that combine reliability, safety, and value.

BAKRIYA Metalworks Company's main goal is to be one of the leaders of the cable management industry in Saudi Arabia with the support of our leader's Vision 2030.

MEMBER OF AHMED ALAMOUDI HOLDING GROUP

AHMED ALAMOUDI HOLDING GROUP considered as one of the biggest private companies in Industry, Trade, and Building Materials.

During the past 25 years the group has been very active in the market and has made a significant progress to maintain good quality standard to satisfy clients and business as well through its facilities.

1- CLASSIFICATION OF MATERIAL & FINISH

Classification: Metallic System Components

Material

Based on the installation environment (corrosion and electrical considerations) and cost, BMC Electric Cable Tray Systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel, aluminum alloy, or from metal with a corrosion-resistant finish (zinc or epoxy).

a) **Steel:** Steel cable tray has a high strength and low cost. Disadvantages include high weight, low electrical conductivity, and relatively poor corrosion resistance. The rate of corrosion will vary depending on many factors such as the environment, coating or protection applied, and the composition of the steel. Finishes and coatings are required to improve the corrosion resistance of steel. These include pre-galvanized, hot dip galvanized (after fabrication), epoxy, and special paints.

b) **Stainless Steel:** Stainless steel offers high yield strength and high creep strength, at high ambient temperatures. The stainless-steel cable tray is roll-formed from AISI Type 304, 316, 316L stainless steel. Stainless Steel is resistant to dyestuffs, organic chemicals, and inorganic chemicals at elevated temperatures. Higher levels of chromium and nickel and a reduced level of carbon serve to increase corrosion resistance and facilitate welding. Type 316 includes molybdenum to increase high-temperature strength and improve corrosion resistance, especially to chloride and sulfuric acid. Carbon content is reduced to facilitate welding.

c) **Aluminum:** 6063 Aluminum series alloys (copper free), because of its high strength-to-weight ratio, superior resistance to certain corrosive environments, ease of installation, maintenance-free, non-magnetic, and minimum electrical losses. These alloys contain silicon and magnesium in appropriate proportions to form magnesium silicate, allowing them to be heat treated. These magnesium silicon alloys possess good formability and structural properties, as well as excellent corrosion resistance.

Finishes

A. Pre-Galvanized

Pre-galvanized, also known as mill-galvanized or hot dip mill-galvanized, is produced in a rolling mill by passing steel coils through molten zinc. These coils are then slit to size and fabricated. Areas not normally coated during fabrication, such as cuts and welds, are protected by neighboring zinc, which works as a sacrificial anode. During welding, a small area directly affected by heat is also left bare, but the same self-healing process occurs. G90 requires a coating of .90 ounces of zinc per square foot of steel, or.32 ounces per square foot on each side of the metal sheet. In accordance with A653/A653M-06a, pre-galvanized steel is not generally recommended for outdoor use or in industrial environments.

B. Hot-Dip Galvanized

Hot dip galvanizing after fabrication provides a uniform coating of metallurgical bonded zinc-iron alloy layers, and pure zinc is produced to create a sacrificial coating that provides sufficient protection of steel against corrosion in accordance with ASTM 123 and BS EN 1461 specifications. Hot Dip Galvanizing is the most effective method for delivering long-term barrier and cathodic production. The process is recommended for cable trays used in most outdoor environments and many harsh industrial environments applications.

C. Other Coatings: Epoxy and special paint coatings are available on request.

For many applications, however, you may also have to take the following into account:
1) Weight of the installation, 2) Corrosion resistance of the material, 3) Galvanic effect, 4) Relative cost variation of metal, 5) Thermal expansion.

2- CORROSION CLASSES

To describe how the environment can affect the life span of the installation the concept of corrosivity classifications are used. The classifications are a division in different surroundings, based on the grade of corrosion the metal is expected to get exposed to.

ENVIRONMENTAL CORROSIVITY	C1 VERY LOW	C2 LOW	C3 MEDIUM	C4 HIGH	C5 VERY HIGH
CORROSIVITY PROTECTION	Untreated steel, coated steel	Coated steel	Galvanized steel, stain-less steel, GRP	Duplex treated steel, stainless steel (not acid-proof), GRP	Acid-proof stainless steel, GRP
OUTDOOR ENVIRONMENT	–	Low levels of air pollu-tion, rural areas	Medium levels of air pollution, urban areas, and lightly industrial areas	Tangible levels of air pollution or medium levels of salt, urban and coast areas	Aggressive climate and high humidity. Coast and offshore areas with great levels of salt
INDOOR ENVIRONMENT	Heated areas with dry air, f.e. offices and stores	Non-heated areas with changing temperature and humidity, f.e. sport halls and warehouses	Medium humidity and certain amount of air pollution, f.e. breweries, diaries, laundries, heated rinks	High humidity and great amount of air pollution f.e swim-ming pools, chemical industries, shipyards, non-heated rinks	Permanent air condensation and a great level of air pollution

According to EN 12944-2 with Eurostairs additions to facilitate the choice of corrosion protection.

3. SELECT THE TRAY LOAD CLASS

Design Efficiency

A tray designed to perform its required function with the minimum weight (which facilitates installation) requires the material to be used in the most effective manner. The design requirements of side rails are different from those of rungs or ventilated bottoms; fabricated tray allows the designer to use different shapes and thicknesses of metal to the best advantage. The strength of the side rail and rungs is increased by the proper use of metal in the high-strength heat-treated aluminum or continuously rolled cold-worked steel sections.

Loading

It is important to note that, per NEMA Standard VE1, cable tray is not designed to support personnel. The user should display appropriate warnings to prevent the use of cable tray as walkways.

Cable Loads

The cable load is the total weight, expressed in kg/m or lb/ft, of all the cables that will be placed in the cable tray.

Seismic Loads

It is now known that cable tray systems can withstand stronger earthquakes than previously thought. The tray itself and the support material are highly ductile, and the cables moving within the tray tend to dissipate energy. However, if you have specific seismic specifications for the selected cable tray, please consult BMC to ensure your specifications are met.

Load Test

The Load test is carried by as per the BS EN 61537 Standard; Specifies requirement and test for Cable Trays System and Cable Ladder System and NEMA VE1, Metal Cable Tray Systems.

4. SELECT THE TRAY TYPE

A. Ladder – Tubular, welded, and riveted Ladders tray shall incorporate two side rails connected by lateral rungs or sheets. Rungs shall provide a minimum 1e" bearing surface. For welded ladder, eight types of rungs are available, depending on customer request as shown in page 17. Rungs shall be installed at 6", 9", 12" or 18" spacing. The rungs shall not be below the bottom of the side rail.

B. Perforated tray - Perforated tray shall incorporate ventilated sheet.

C. Channel tray- Channel tray shall incorporate solid or ventilated sheet.

D. Trunk duct tray- Channel tray shall incorporate solid sheet.

5. SELECT THE TRAY SIZE

A. Side rail Height

B. Length

C. Width

D. Thickness

E. Radiuses for fittings

In each chapter, you will find the technical specification tables/charts for each type individually.

Cable Tray

The cable tray consists of straight sections, fittings, and accessories per NEMA VE1-Cable tray must be listed by UL as an equipment grounding conductor. There shall be no burrs, projections, or sharp edges to damage the cable insulation.

Material

A. Aluminum - All side rails and rungs shall be of extruded aluminum type 6063-T6. Side rails shall have a stiffener for reinforcement.

B. Pre-Galvanized Steel - All side rails and rungs shall be of steel conforming to the requirements of ASTM A653/A653M-06a with G90 coating thickness. The side rail shall be reinforced with flanges.

C. Hot Dip Galvanized Steel - All side rails and rungs shall be hot dip galvanized after manufacture as per ASTM A123 providing a minimum thickness of 1.50 oz per ft.2

D. Stainless Steel - All cable trays and accessories shall be of type AISI 304, AISI 316, and AISI 316 L stainless steel.

PERFORATED CABLE TRAY SYSTEM

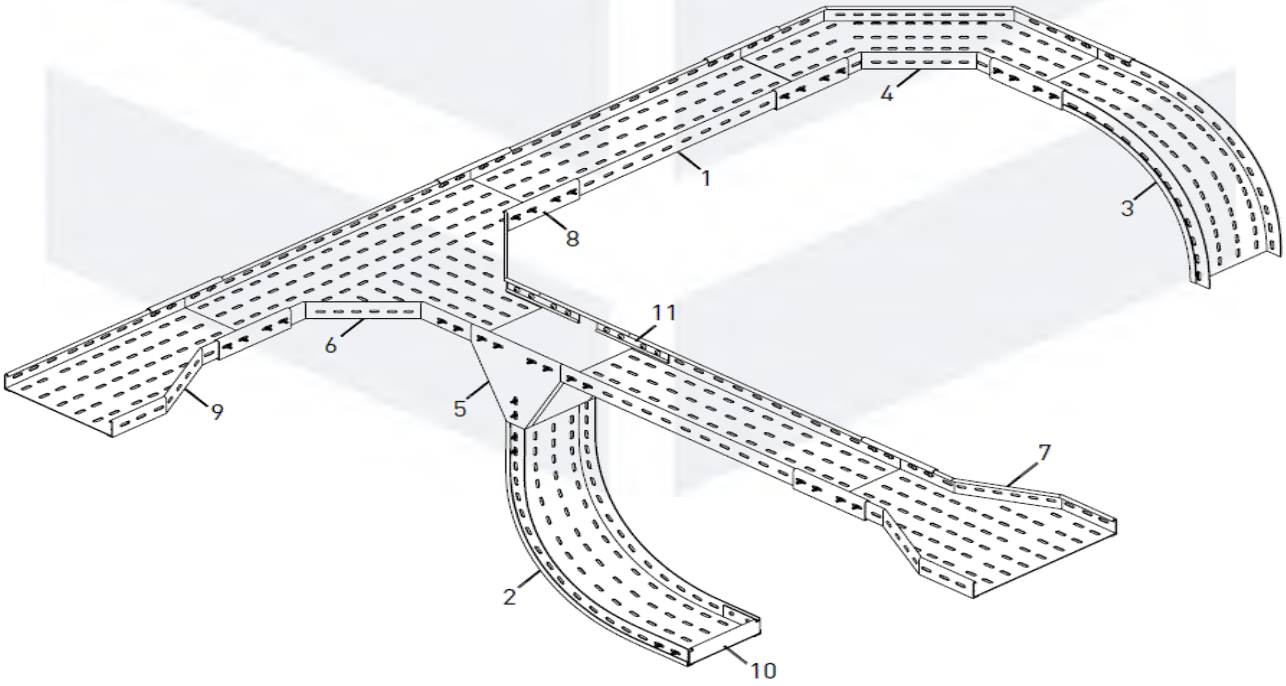
Cable Trays are available in:

- Steel Sheet to ASTM A-36 / EN10025 S235JR
- Aluminum 3105 H-14
- Stainless Steel 304 or 316
- Pre-Galvanized

The finishing of these products can be:

- Hot Dip Galvanized to BS EN ISO 1461:1999 or ASTM A123
- Mild steel (pre-galvanized steel)
- Painted (Polyester, liquefied epoxy base)
- Aluminum mill finish
- Stainless steel mill finish

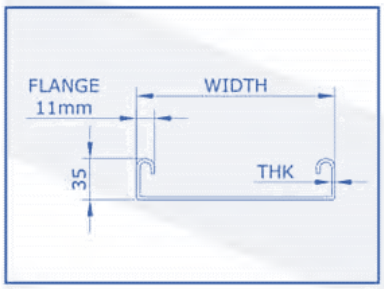
1. Cable Tray Straight
2. 90° Inside Vertical Elbow
3. 90° Outside Vertical Elbow
4. 90° Horizontal Elbow
5. Vertical Tee Piece In-Line
6. Horizontal Tee
7. Straight Reducer
8. Wrap over Joint Piece
9. Left Hand Reducer
10. Blind End
11. Straight Joint Piece

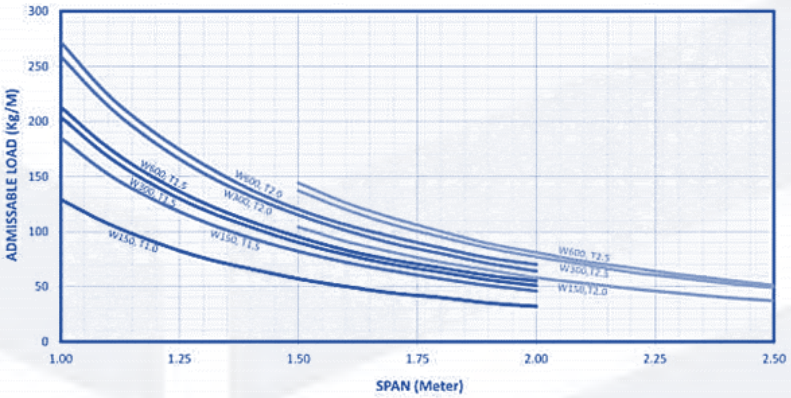


BS EN 61537 STANDARD

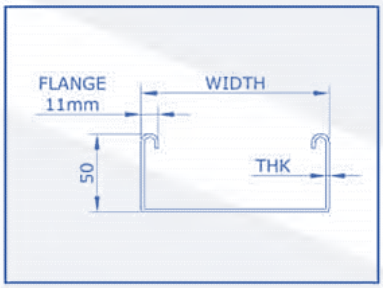
Perforated Cable Tray actual load tests are carried out to BS EN 61537. The safety factor is 1.7 Load chart shows safe working load versus support span.

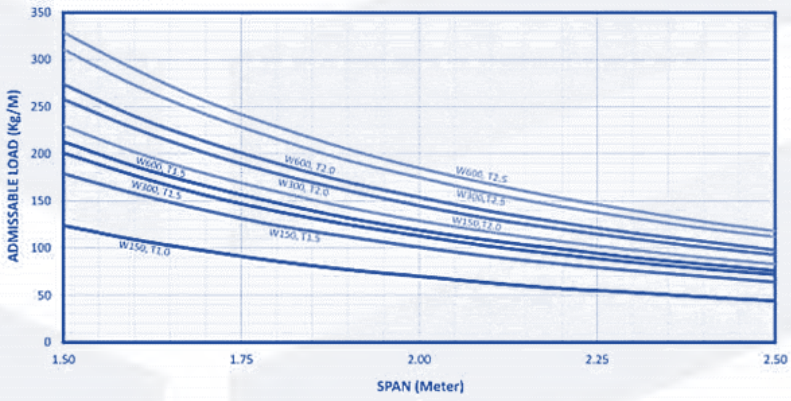
PERFORATED CABLE TRAY - MEDIUM DUTY/ HEIGHT: 35mm



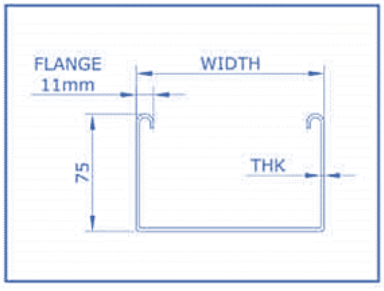


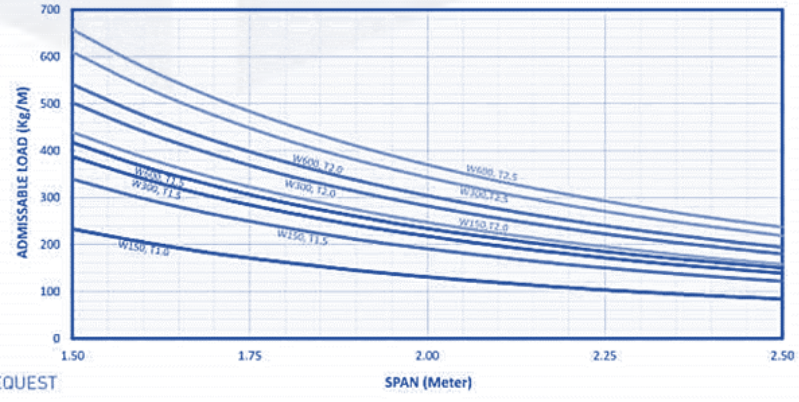
PERFORATED CABLE TRAY - HEAVY DUTY/ HEIGHT: 50mm





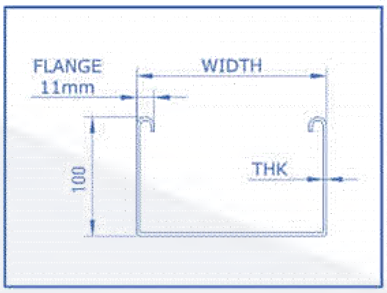
PERFORATED CABLE TRAY - EXTRA HEAVY DUTY / HEIGHT: 75mm

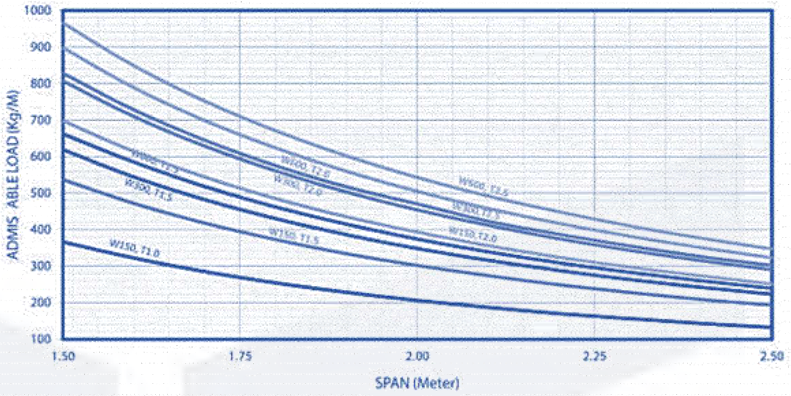


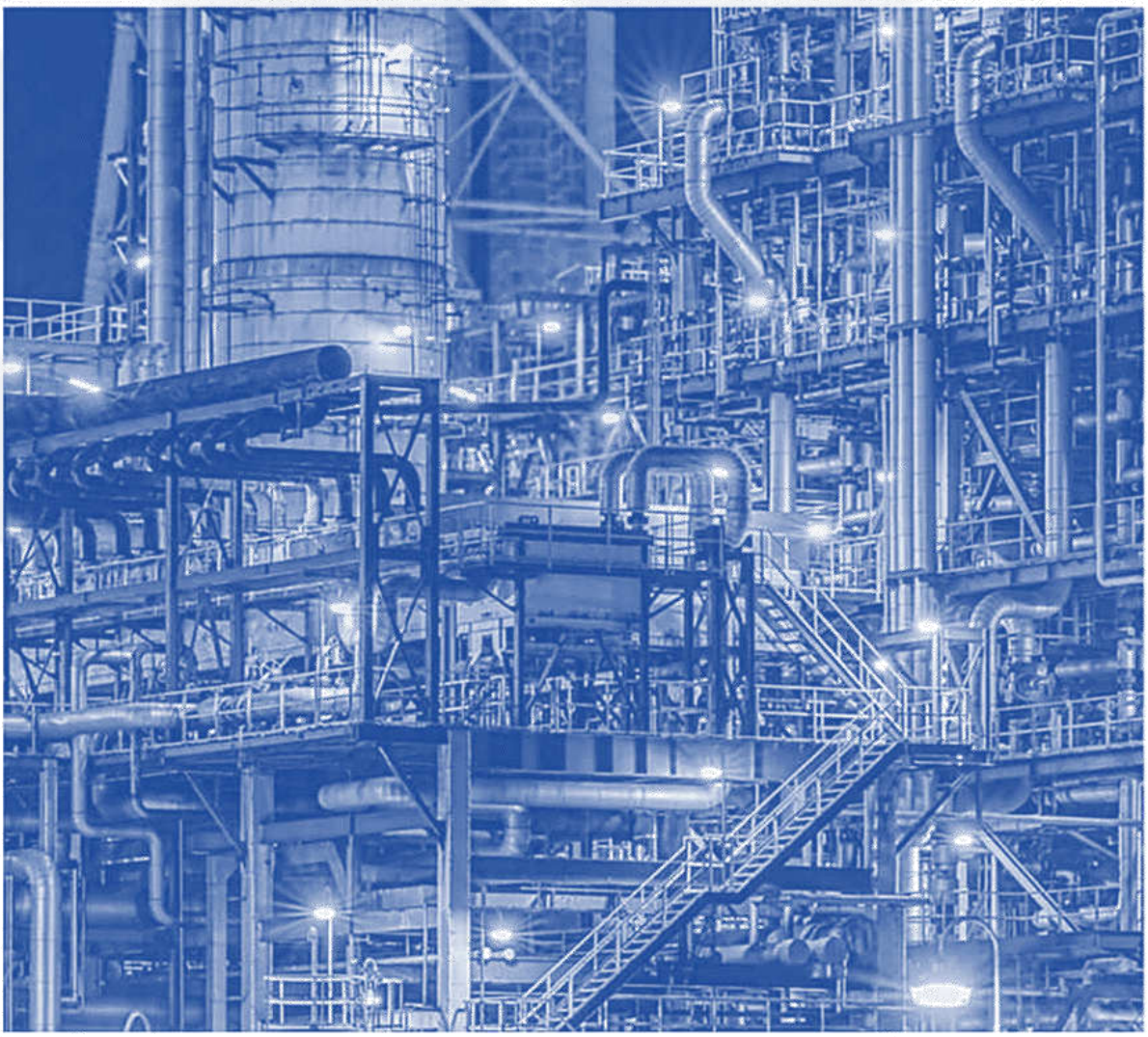


CUSTOM MADE PRODUCT IS POSSIBLE UPON REQUEST

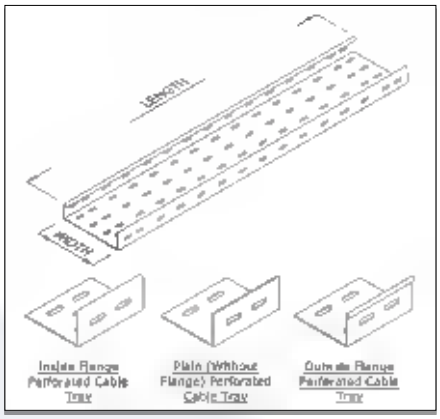
PERFORATED CABLE TRAY - EXTRA HEAVY DUTY / HEIGHT: 100mm

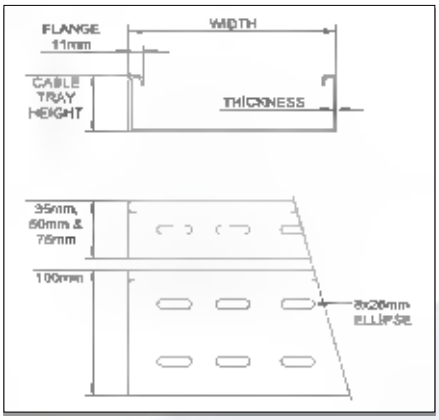






CABLE TRAY





PRODUCT CODE KEY

B-254W2-100-3000-S-HDG

- Bakriya
- Height
- Thickness
- Width
- Finishing
- Material
- Length

FINISHING	HDGAF HDGAF and Powder Coated Pre - Galvanized Steel Epoxy Coating.	THICKNESS	W1 - 1.0mm W2 - 1.5mm W3 - 2.0mm
MATERIALS	Steel Aluminum Stainless Steel	WIDTH	50mm 400mm 100mm 500mm 150mm 600mm 200mm 900mm 300mm
HEIGHT	251 - 35mm 252 - 50mm 253 - 75mm 254 - 100mm	FITTING RADIUS	300mm 600mm
		LENGTH	2440mm 3000mm

BMC Cable Tray System provides high quality, cost effective and reliable Solutions to cable distribution and installation work. As standard production cable trays are perforated with inside return flange, the result of this design is a ventilated area for cables and increased load capacity while maintaining low weight of the structure. However, solid cable trays with or without flange are available upon request

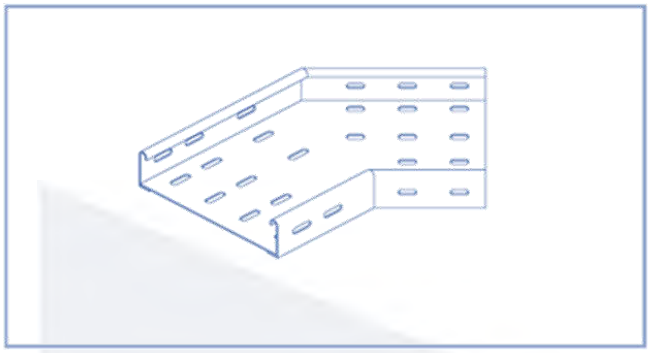
In addition to the standard dimensions listed in this catalogue, **BMC** can provide any other special dimensions or designs in high quality and with low costs. Corrosion protection is the main aspect of the system. Hence a wide range of protection method are applied depending on the environment where the cable trays are installed

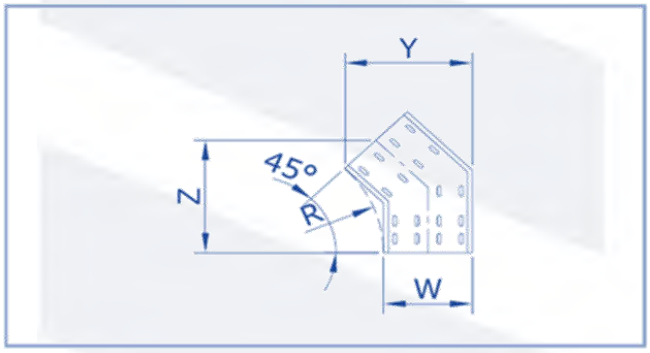
BMC offers aluminum and stain-less steel cable tray systems to be installed in food industry projects and wherever chemicals affect is dominated.

Powder coating available upon request

FITTINGS

45° HORIZONTAL ELBOW



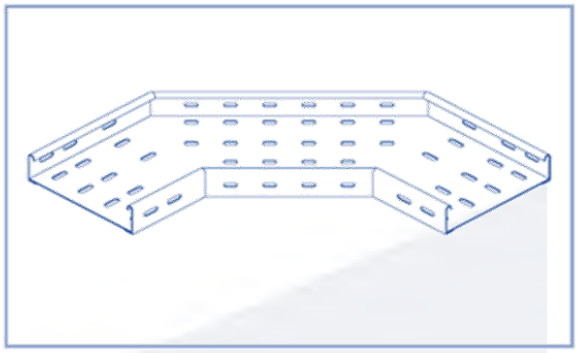


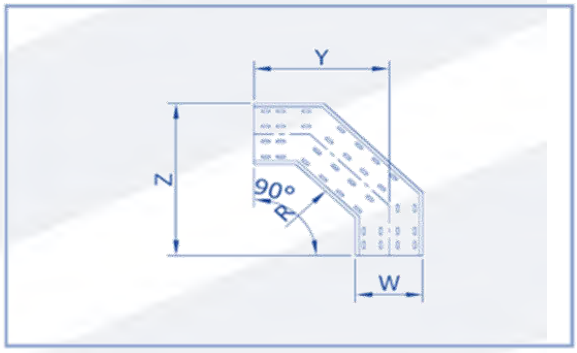
Reference : 252 W4 - 200 / 300 S

- 252 — Height, 45° Horizontal Bend
- W4 — Width
- 200 — Radius
- 300 — Material
- S

Radius (R) mm	Width (W) mm	Dimension 'Y' mm	Dimension 'Z' mm
300	50	138	230
300	100	188	248
300	150	238	265
300	200	288	283
300	300	388	318
300	400	488	354
300	500	588	389
300	600	688	424
300	900	988	530
600	50	226	442
600	100	276	460
600	150	326	477
600	200	376	495
600	300	476	530
600	400	576	566
600	500	676	601
600	600	776	636
600	900	1076	743

90° HORIZONTAL ELBOW





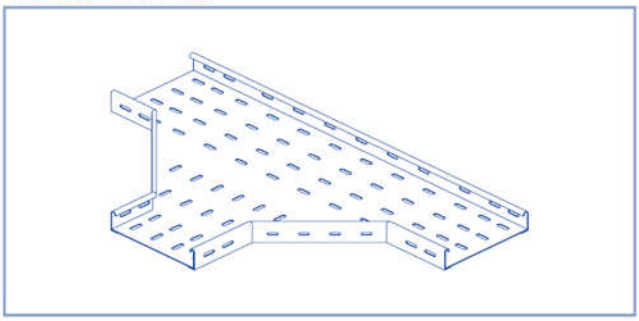
Reference : 252 W5 - 200 / 300 S

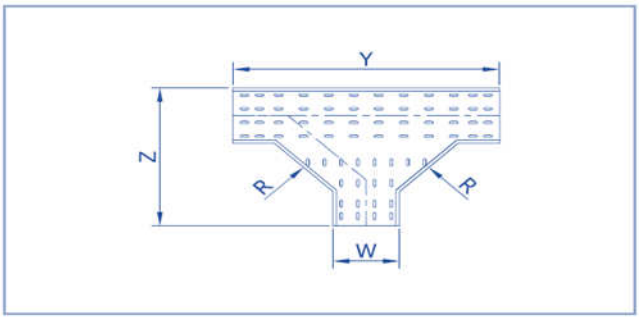
- 252 — Height, 90° Horizontal Bend
- W5 — Width
- 200 — Radius
- 300 — Material
- S

Radius (R) mm	Width (W) mm	Dimension 'Y' mm	Dimension 'Z' mm
300	50	325	350
300	100	350	400
300	150	375	450
300	200	400	500
300	300	450	600
300	400	500	700
300	500	550	800
300	600	600	900
300	900	750	1200
600	50	625	650
600	100	650	700
600	150	675	750
600	200	700	800
600	300	750	900
600	400	800	1000
600	500	850	1100
600	600	900	1200
600	900	1050	1500

FITTINGS

HORIZONTAL TEE



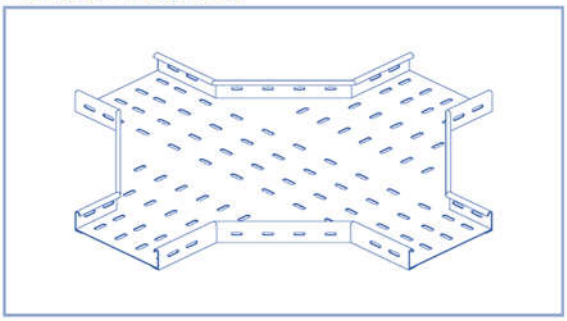


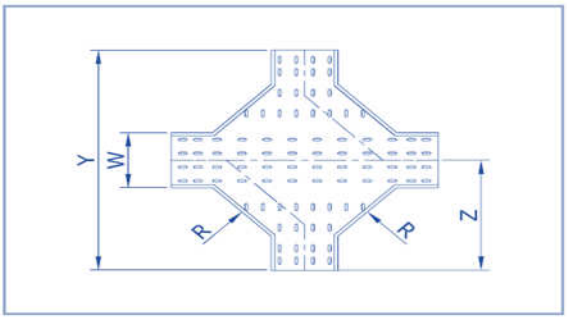
Reference : 252 W6 - 200 / 300 S

- 252 W6 — Height / Horizontal Tee
- 200 — Width
- 300 — Radius
- S — Material

Radius (R) mm	Width (W) mm	Dimension 'Y' mm	Dimension 'Z' mm
300	50	650	350
300	100	700	400
300	150	750	450
300	200	800	500
300	300	900	600
300	400	1000	700
300	500	1100	800
300	600	1200	900
300	900	1500	1200
600	50	1250	650
600	100	1300	700
600	150	1350	750
600	200	1400	800
600	300	1500	900
600	400	1600	1000
600	500	1700	1100
600	600	1800	1200
600	900	2100	1500

HORIZONTAL CROSS





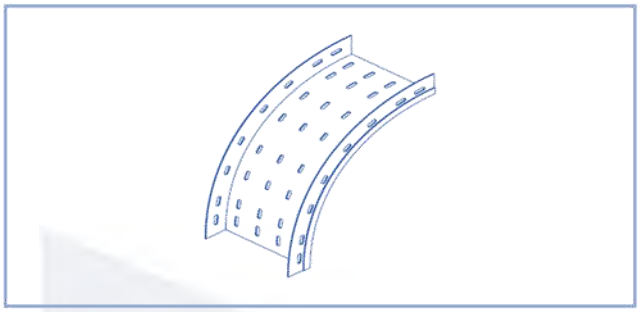
Reference : 252 W7 - 200 / 300 S

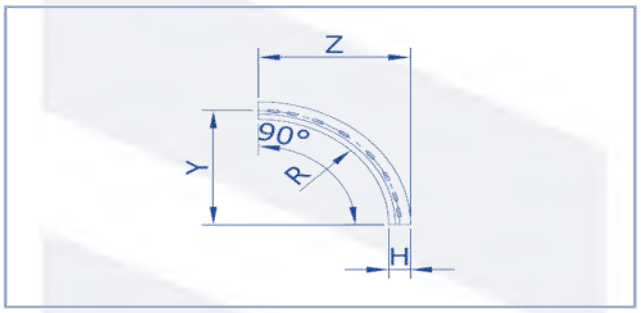
- 252 W7 — Height / Horizontal Cross
- 200 — Width
- 300 — Radius
- S — Material

Radius (R) mm	Width (W) mm	Dimension 'Y' mm	Dimension 'Z' mm
300	50	650	325
300	100	700	350
300	150	750	375
300	200	800	400
300	300	900	450
300	400	1000	500
300	500	1100	550
300	600	1200	600
300	900	1500	750
600	50	1250	625
600	100	1300	650
600	150	1350	675
600	200	1400	700
600	300	1500	750
600	400	1600	800
600	500	1700	850
600	600	1800	900
600	900	2100	1050

FITTINGS

HORIZONTAL TEE





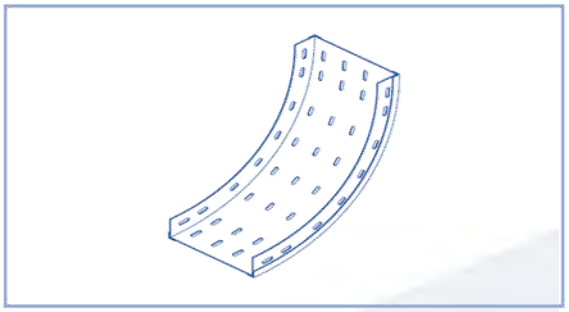
Reference : 252 W08 - 200 / 300 S

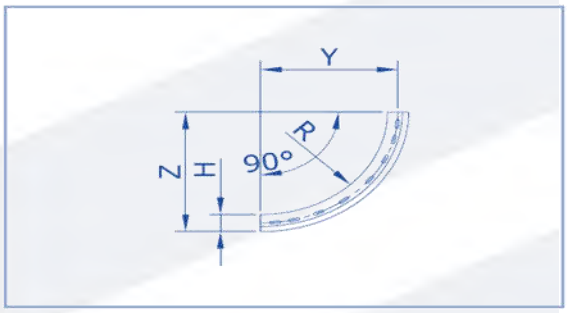
- 252 W08 — Height: 90° Vertical Outside
- 200 — Width
- 300 — Radius
- S — Material

Height (H) mm	Radius (R) mm	Dimension 'Y' mm	Dimension 'Z' mm
35	300	318	335
35	600	618	635
50	300	325	350
50	600	625	650
75	300	338	375
75	600	638	675
100	300	350	400
100	600	650	700

Width in millimeter :
Use 50mm, 100mm, 150 mm, 200mm, 300mm, 400mm, 500mm, 600mm

HORIZONTAL CROSS





Reference : 252 W09 - 200 / 300 S

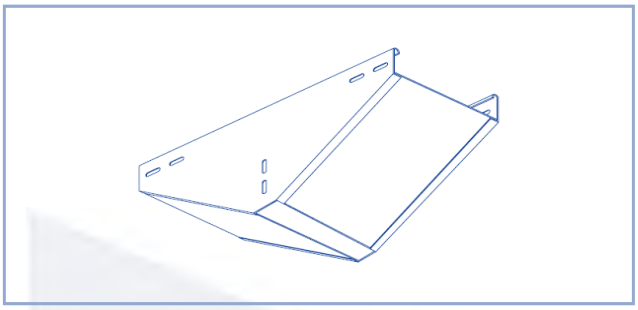
- 252 W09 — Height: 90° Vertical Inside
- 200 — Width
- 300 — Radius
- S — Material

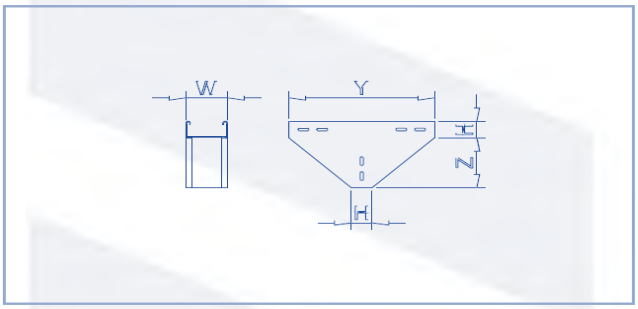
Height (H) mm	Radius (R) mm	Dimension 'Y' mm	Dimension 'Z' mm
35	300	318	335
35	600	618	635
50	300	325	350
50	600	625	650
75	300	338	375
75	600	638	675
100	300	350	400
100	600	650	700

Width in millimeter :
Use 50mm, 100mm, 150 mm, 200mm, 300mm, 400mm, 500mm, 600mm

FITTINGS

VERTICAL TEE PIECE - IN LINE





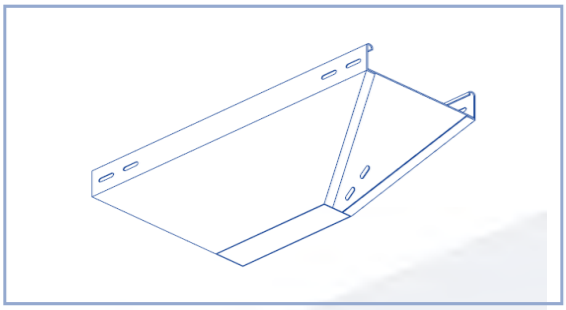
Reference : 252 W10 - 200 S

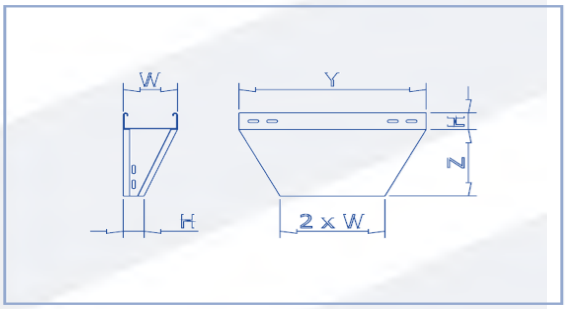
Height — Vertical Tee - In Line

Width — Material

Height (H) mm	Width (W) mm	Dimension 'Y' mm	Dimension 'Z' mm
35	50	350	150
35	100	350	150
35	300	350	150
35	600	350	150
50	50	350	150
50	100	350	150
50	300	550	250
50	600	550	250
75	50	350	150
75	100	350	150
75	300	550	250
75	600	550	250
100	50	400	150
100	100	400	150
100	300	600	250
100	600	600	250

VERTICAL TEE PIECE - OFFSET





Reference : 252 W11 - 200 S

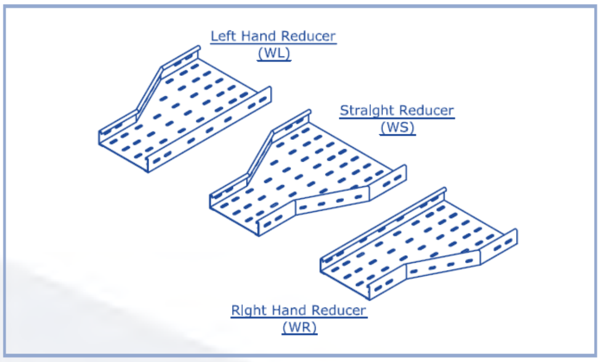
Height — Vertical Tee - Offset

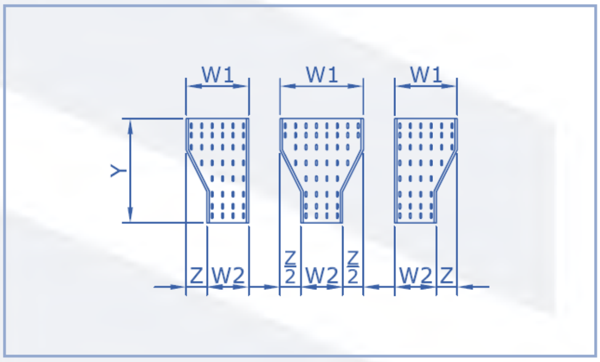
Width — Material

Height (H) mm	Width (W) mm	Dimension 'Y' mm	Dimension 'Z' mm
35	50	800	350
35	100	900	350
35	300	1300	350
35	600	1900	450
50	50	800	350
50	100	900	350
50	300	1700	350
50	600	2100	450
75	50	800	350
75	100	900	350
75	300	1700	350
75	600	2100	450
100	50	800	350
100	100	900	350
100	300	1700	350
100	600	2100	450

FITTINGS

REDUCERS



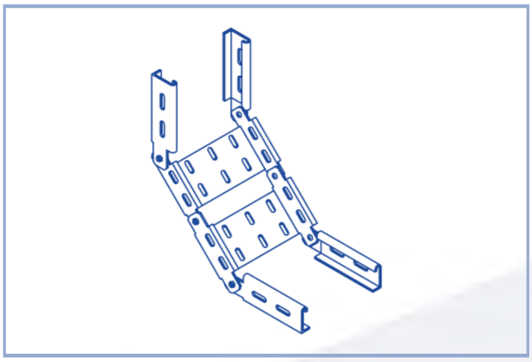


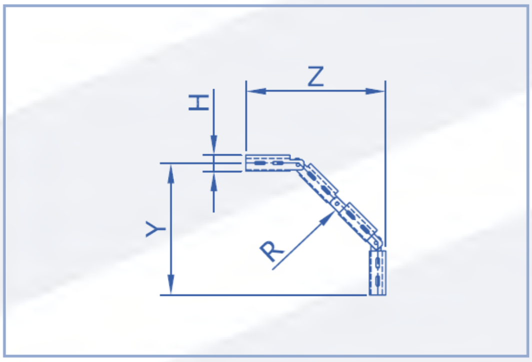
Reference : 252 WS - 300 / 200 S

Height
Straight Reducer
Width-1
Width-2
Material

Wid[illegible] (W1) mm	Width-2 (W2) mm	[illegible] 'Y' mm	[illegible] 'Z' mm
900	600	500	300
900	300	500	600
900	150	500	750
900	100	500	800
900	50	500	450
600	300	500	300
600	150	500	450
600	100	500	500
600	50	500	550
300	150	500	150
300	100	500	200
300	50	500	250
150	100	500	50
150	50	500	100
100	50	500	50

VERTICAL ADJUSTABLE BEND





Reference : 252 WA - 200 / 300 S

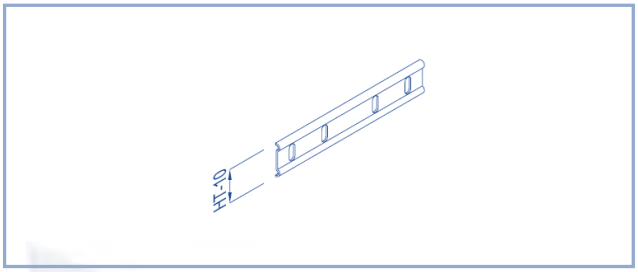
Height
Vertical Adjustable
Width
Radius
Material

[illegible]	[illegible]	[illegible]	[illegible]
35	300	318	335
35	600	618	635
50	300	325	350
50	600	625	650
75	300	338	375
75	600	638	675
100	300	350	400
100	600	650	700

Width [illegible] millimeter
Use 50mm
100mm
150 mm
500mm
600mm

FITTINGS

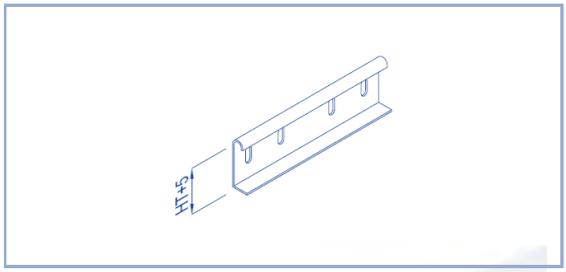
STRAIGHT JOINT PIECE



Reference : 252 W12 - S

- 252 — Height
- W12 — Straight Joint Piece
- S — Material

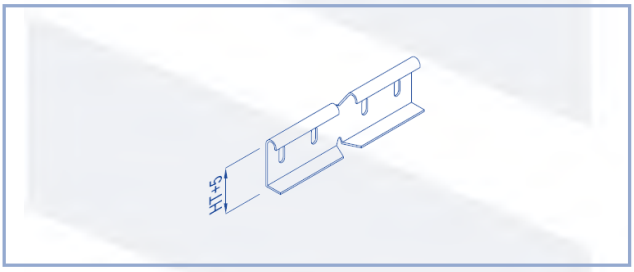
WRAPOVER JOINT PIECE



Reference : 252 W13 - S

- 252 — Height
- W13 — Wrapover Joint Piece
- S — Material

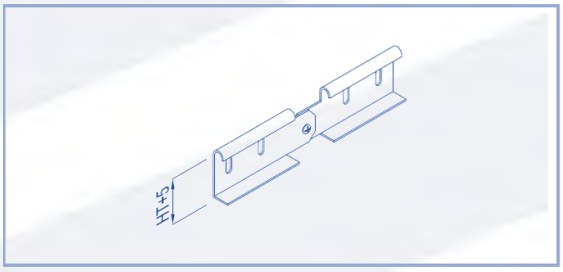
ANGLE JOINT PIECE



Reference : 252 W14 - S

- 252 — Height
- W14 — Angle Joint Piece
- S — Material

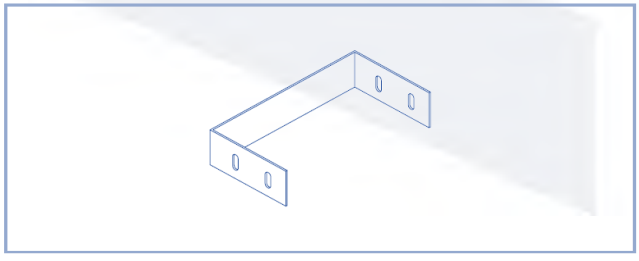
VERTICAL HINGE PIECE



Reference : 252 W15 - S

- 252 — Height
- W15 — Vertical Hinge Piece
- S — Material

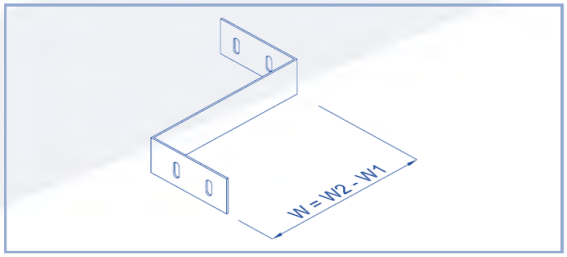
END PLATE



Reference : 252 W16 - 200 S

- 252 — Height
- W16 — End Plate
- 200 — Width
- S — Material

REDUCING CONNECTOR

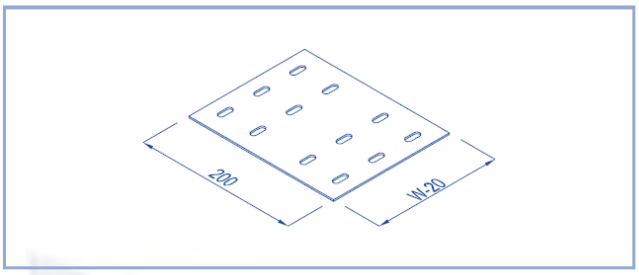


Reference : 252 WH - 200 S

- 252 — Height
- WH — Reducing Connector
- 200 — W = W2 - W1
- S — Material

ACCESSORIES

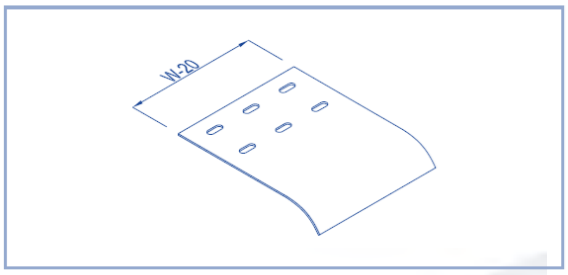
FISH PLATE



Reference : 25 W21 - 200 S

- 25 — Perforated Tray
- W21 — Fish Plate
- 200 — Width
- S — Material

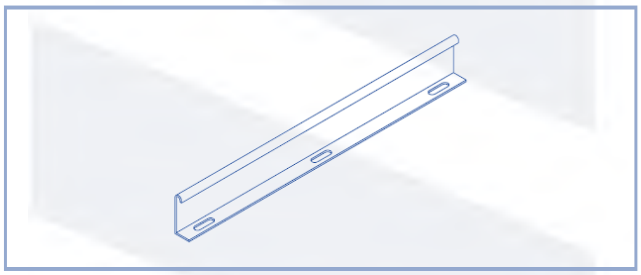
DROP OUT



Reference : 25 W22 - 200 S

- 25 — Perforated Tray
- W22 — Fish Plate
- 200 — Width
- S — Material

SEPARATOR STRIP

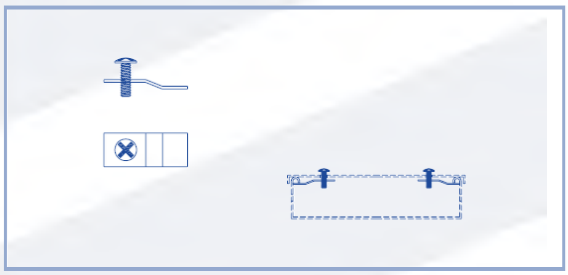


Reference : 252 W17 - 1000 S

Height : 251 - 35mm, 252 - 50mm, 253 - 85mm, 254 - 110mm

- 252 — Separator Strip
- W17 — Length
- 1000 — Material
- S

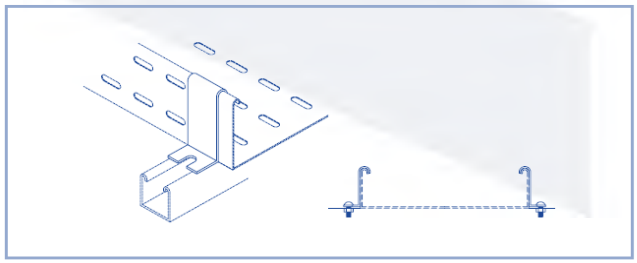
COVER LOCK DEVICE



Reference : 25 W19

- 25 — Perforated Tray
- W19 — Cover Lock Device

HOLD DOWN CLAMP

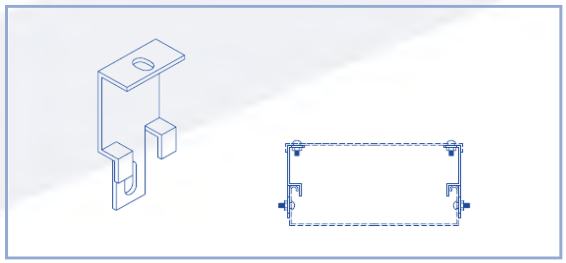


Reference : 252 HDC - S

Height : 251 - 35mm, 252 - 50mm, 253 - 85mm, 254 - 110mm

- 252 — Height
- HDC — Hold Down Clamp
- S — Material

COVER BRACKET - ELEVATED



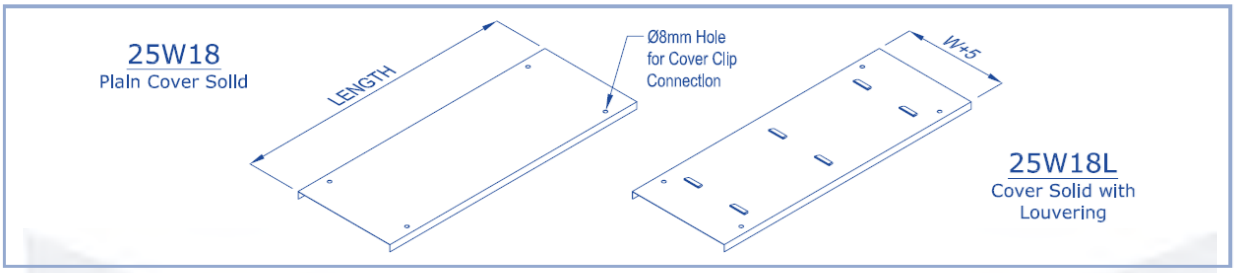
Reference : 252 ECC - S

Height : 251 - 35mm, 252 - 50mm, 253 - 85mm, 254 - 110mm

- 252 — Height
- ECC — Cover Bracket
- S — Material

COVERS

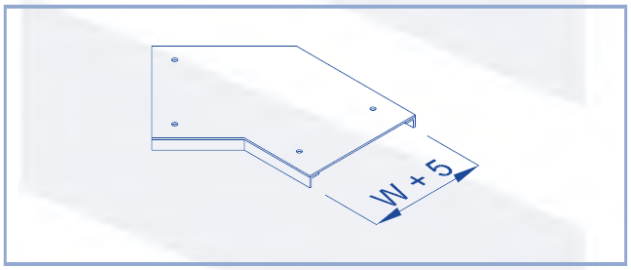
STRAIGHT LENGTH COVERS



Reference : 25W18 - 600 - 3000 S

- 25W18 — Plain Cover Solid
- 600 — Width
- 3000 — Length
- S — Material

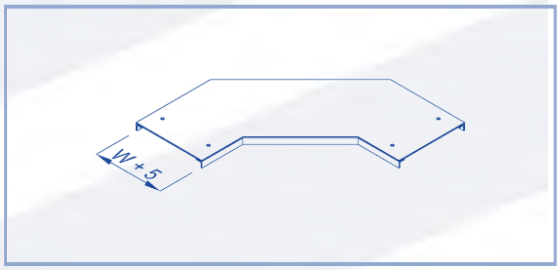
45° HORIZONTAL ELBOW COVER



Reference : 25WC4 - 200 / 300 S

- 25WC4 — 45° Horizontal Elbow Cover
- 200 — Width
- 300 — Radius
- S — Material

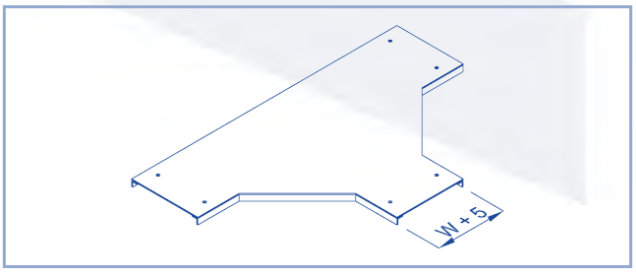
90° HORIZONTAL ELBOW COVER



Reference : 25WC5 - 200 / 300 S

- 25WC5 — 90° Horizontal Elbow Cover
- 200 — Width
- 300 — Radius
- S — Material

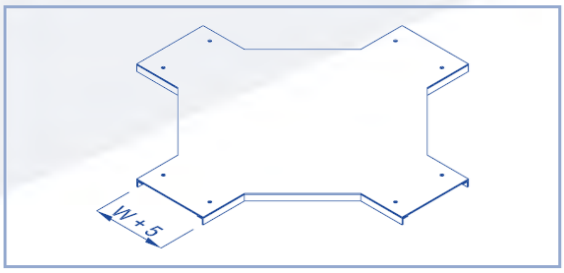
HORIZONTAL TEE COVER



Reference : 25WC6 - 200 / 300 S

- 25WC6 — Horizontal Tee Cover
- 200 — Width
- 300 — Radius
- S — Material

HORIZONTAL CROSS COVER

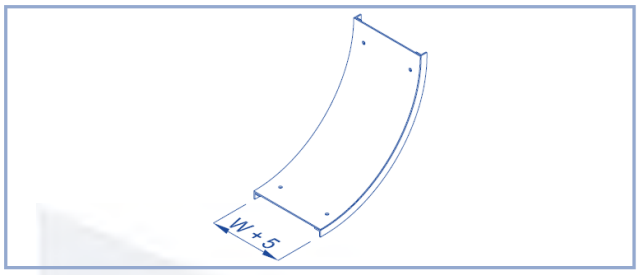


Reference : 25WC7 - 200 / 300 S

- 25WC7 — Horizontal Cross Cover
- 200 — Width
- 300 — Radius
- S — Material

COVERS

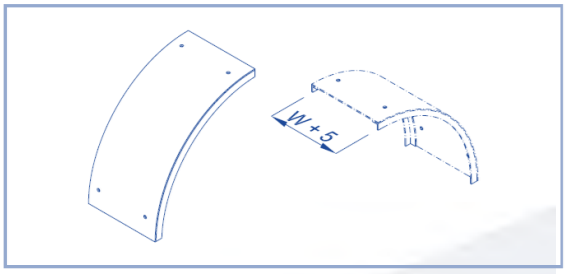
45° HORIZONTAL ELBOW COVER



Reference : 25WC8 - 200 / 300 S

- 25WC8 — 90° Vertical Inside Elbow Cover
- 200 — Width
- 300 — Radius
- S — Material

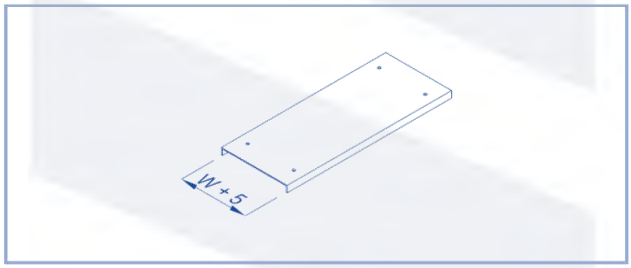
90° HORIZONTAL ELBOW COVER



Reference : 25WC9 - 200 / 300 S

- 25WC9 — 90° Vertical Outside Elbow Cover
- 200 — Width
- 300 — Radius
- S — Material

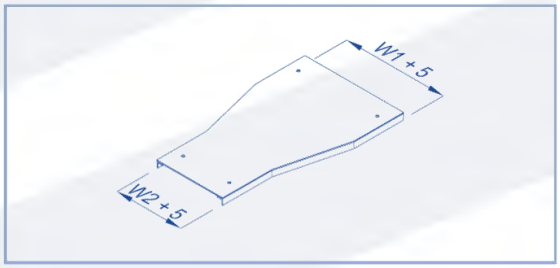
VERTICAL TEE PIECE COVER



Reference : 25WC10 - 200 / 300 S

- 25WC10 — Vertical Tee Piece Cover
- 200 — Width
- 300 — Radius
- S — Material

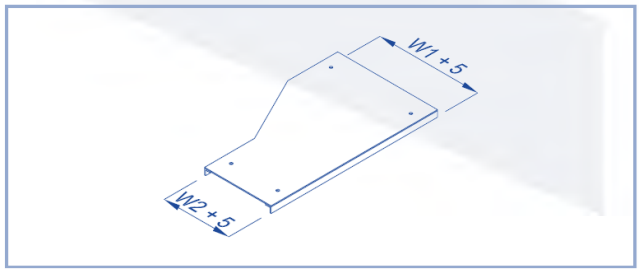
STRAIGHT REDUCER COVER



Reference : 25WSC - 300 / 200 S

- 25WSC — Straight Reducer Cover
- 300 — Width-1
- 200 — Width-2
- S — Material

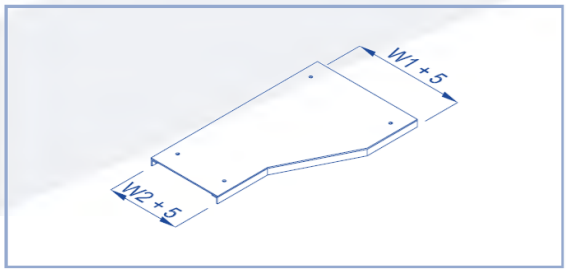
LEFT HAND REDUCER COVER



Reference : 25WLC - 300 / 200 S

- 25WLC — Left Hand Reducer Cover
- 300 — Width-1
- 200 — Width-2
- S — Material

RIGHT HAND REDUCER COVER



Reference : 25WRC - 300 / 200 S

- 25WRC — Right Hand Reducer Cover
- 300 — Width-1
- 200 — Width-2
- S — Material

CABLE LADDER SYSTEM

CABLE LADDER

BMC offers various types of Cable Ladder type:

- Tubular (Swaged) type
- Welded type

These Cable Ladders are available in:

- Steel Hot Dip Galvanized after fabrication
- Extruded Aluminum Alloy
- Stainless steel 304/316

The finish of this product can be:

Hot Dip Galvanized to BS EN ISO 1461:1999 or ASTM A123

- Epoxy powder coated after hot dip galvanizing
- Aluminum mill finish
- Stainless steel mill finish

Our Cable Ladders, are manufactured as per NEMA VE-1 standard and BS-EN 61537 standards.

All accessories and fixing material are matching with the mentioned types of Cable Ladder.

All the system is tested and the quality is controlled as per the mentioned standards and we have flexibility to produce special sizes and loading as per your requirements within the specification of the mentioned standards.

Flange side rails stiffened type top flange to give more strength and load capacity.
These side rails have different heights with all necessary holes to connect every length to the other. These side rails are related to the loading capacity and their heights are 108mm, 133mm, 159mm, and 184mm.

Every two side rails are connected to each other by tubular rung or channel rung, and the rungs are connected to the side rails by swaging, or welding process.

Swagging process gives more strength to the connection points in all directions without using any welding which effect strength of side rails. Swaging gives uniform 360 degrees around the rung which resist stress at any direction and protect the cable.

The standard width of cable ladder is 100 mm, 150mm, 225mm, 300mm, 450mm, 600mm, 750mm and 900mm.

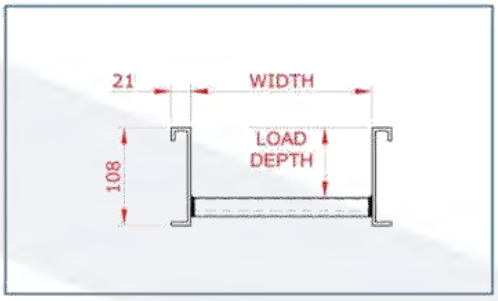
The rung spacing which depend on the type of cable can be 150mm, 229mm,300mm, 450mm, but for general use of any type of cables, we recommend 229mm spacing and these rungs are designed for 90kg loading on each rung which give more strength during pulling cables or if there is instantaneous concentrated load on the rung.

Different length of Cable Ladders can be offered depending on the request, but our main standard length is 2440mm, 3000mm, 3700mm, 4900mm, and 6000mm.

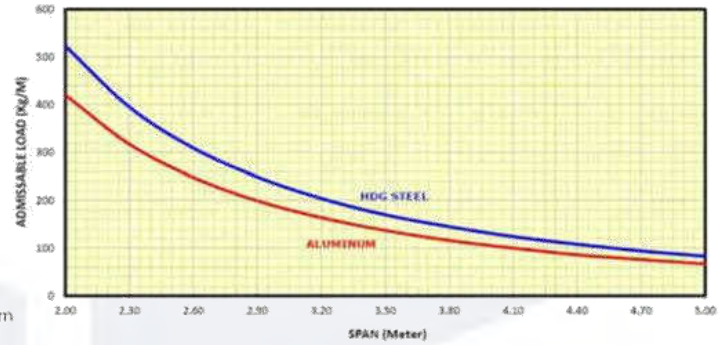
BS EN 61537 STANDARD

Applicable for cable ladder swaged and welded type. Actual load tests carried out to Test type 1, Joint at the midpoint of span or Test type 4, Joint at the midpoint of span when support is directly underneath any point of local weakness. The saftey factor is 1.5. The maximum mid-span deflection is span /100. Load chart shows safe working load versus support span.

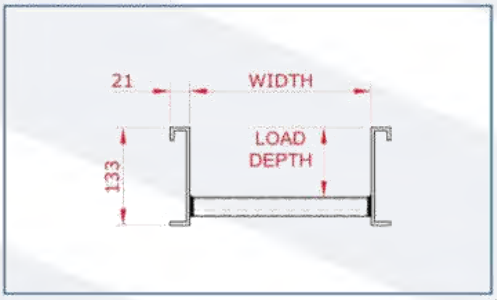
STRAIGHT CABLE LADDER - HEAVY DUTY



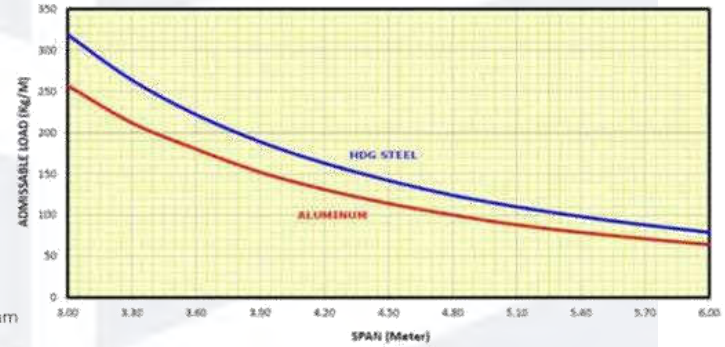
Standard thickness: 1.5mm for HDG Steel - 2.0mm for Aluminum



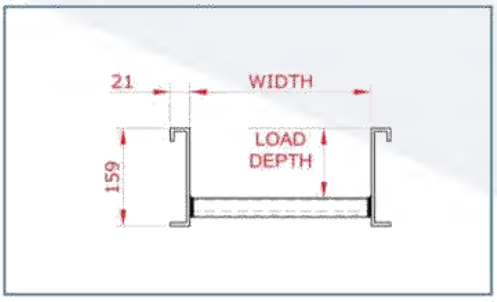
STRAIGHT CABLE LADDER EXTRA HEAVY DUTY



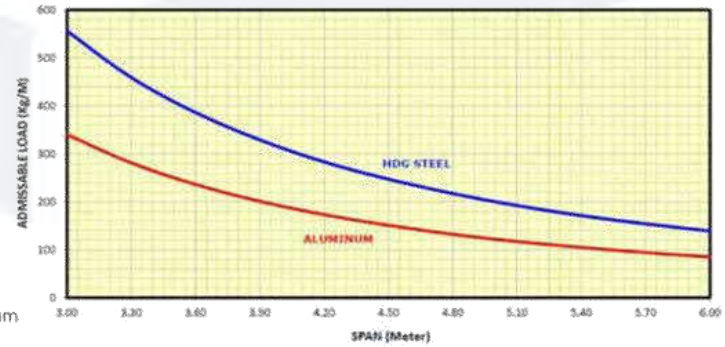
Standard thickness: 1.5mm for HDG Steel - 2.0mm for Aluminum



STRAIGHT CABLE LADDER SUPER HEAVY DUTY



Standard thickness: 2.0mm for HDG Steel - 2.0mm for Aluminum



NEMA STANDARDS

Applicable for cable ladder swaged and welded type

Loading plan designation as per NEMA standards as follow

WORKING LOAD		SUPPORT SYSTEM		CLASS
LBS/FT	KG/M	FEET	METER	DESIGNATION
50	74.4	8	2.44	8A
75	111.6	8	2.44	8B
100	148.8	8	2.44	8C
50	74.4	12	3.66	12A
75	111.6	12	3.66	12B
100	148.8	12	3.66	12C
50	74.4	16	4.87	16A
75	111.6	16	4.87	16B
100	148.8	16	4.87	16C
50	74.4	20	6.09	20A
75	111.6	20	6.09	20B
100	148.8	20	6.09	20C

Testing of our Cable Ladder – Load Test – Deflection Test and Destruction Test to be applied as per NEMA standard test and the certificates are available on request.

NEMA STANDARD LOAD CLASSIFICATION FOR ALLUMINUM LADDER

8A	B=8" - 0"	SSLA08A3	76	108	20.6	1.5	250	0.08	+	140	0.24	0.002	84	0.56	0.006									
		SSLA08A4	102	133	20.6	1.5	343	0.05	+	193	0.14	0.001	115	0.40	0.004									
		SSLA08A5	127	159	20.6	2.0	575	0.02	+	326	0.07	+	195	0.21	0.001									
	A=50 lb./ft. (74.4 kg/M)	SSLA08A6	152	184	20.6	1.5	568	0.02	+	319	0.06	+	191	0.18	0.001									
8B		SSLA08B3	76	108	20.6	1.5	250	0.11	0.001	140	0.36	0.003	84	0.99	0.012									
		SSLA08B4	102	133	20.6	1.5	343	0.07	+	193	0.22	0.001	115	0.60	0.005									
	B=75 lb./ft. (111.6 kg/M)	SSLA08B5	127	159	20.6	2.0	579	0.04	+	326	0.11	+	195	0.31	0.002									
		SSLA08B6	152	184	20.6	1.5	568	0.03	+	319	0.10	+	191	0.27	0.001									
8C	C=100 lb./ft. (148.8 kg/M)	SSLA08C3	76	108	20.6	1.5	250	0.15	0.001	140	0.50	0.003	105	1.32	0.016									
		SSLA08C4	102	133	20.6	1.5	343	0.09	+	193	0.30	0.002	115	0.80	0.007									
		SSLA08C5	127	159	20.6	2.0	575	0.05	+	326	0.15	0.001	195	0.41	0.002									
		SSLA08C6	152	184	20.6	1.5	568	0.04	+	319	0.13	+	191	0.36	0.002									
12A	50 lb./ft (74.4 kg/M) 12' span	SSLA12A3	76	108	20.6	1.5	250	0.08	+	140	0.24	0.002	84	0.56	0.006	59	1.34	0.023						
		SSLA12A4	102	133	20.6	1.5	343	0.05	+	193	0.14	0.001	115	0.40	0.004	81	0.81	0.010						
		SSLA12A5	127	159	20.6	2.0	579	0.02	+	326	0.07	+	195	0.21	0.001	137	0.42	0.003						
		SSLA12A6	152	184	20.6	1.5	568	0.02	+	319	0.06	+	191	0.18	0.001	134	0.34	0.003						
12B	75 lb./ft (111.6 kg/M) 12' span	SSLA12B3	76	108	20.6	2.0	293	0.10	+	159	0.33	0.002	95	0.90	0.010	76	1.83	0.027						
		SSLA12B4	102	133	20.6	1.5	343	0.07	+	193	0.22	0.001	115	0.60	0.005	81	1.22	0.015						
		SSLA12B5	127	159	20.6	2.0	579	0.04	+	326	0.11	+	195	0.31	0.002	137	0.62	0.005						
		SSLA12B6	152	184	20.6	1.5	568	0.03	+	319	0.10	+	191	0.27	0.001	134	0.54	0.004						
12C	100 lb./ft. (148.8 kg/M) 12' span	SSLA12C3	76	108	20.6	2.5	387	0.10	+	217	0.32	0.002	130	0.90	0.007	101	1.83	0.020						
		SSLA12C4	102	133	20.6	2.0	441	0.07	+	248	0.23	0.001	148	0.83	0.004	104	1.28	0.012						
		SSLA12C5	127	159	20.6	2.0	579	0.05	+	326	0.15	0.001	195	0.41	0.002	137	0.83	0.006						
		SSLA12C6	152	184	20.6	2.5	905	0.03	+	509	0.08	+	305	0.23	0.001	214	0.50	0.002						
16A	50 lb./ft. (74.4 kg/M) 16' span	SSLA16A3	76	108	20.6	2.5				217	0.16	0.001	130	0.45	0.004	91	0.91	0.010	52	2.81	0.054			
		SSLA16A4	102	133	31.75	2.0				306	0.09	+	184	0.26	0.001	129	0.53	0.004	74	1.61	0.022			
		SSLA16A5	127	159	31.75	2.0				399	0.06	+	239	0.17	0.001	168	0.34	0.002	95	1.05	0.011			
		SSLA16A6	152	184	31.75	2.0				499	0.04	+	299	0.12	+	210	0.24	0.001	119	0.73	0.006			
16B	75 lb./ft. (111.6 kg/M) 16' span	SSLA16B3	76	108	31.75	2.0				228	0.23	0.001	137	0.64	0.005	96	1.30	0.014	76	3.99	0.074			
		SSLA16B4	102	133	31.75	2.0				306	0.14	0.001	184	0.40	0.002	129	0.80	0.006	81	2.42	0.033			
		SSLA16B5	127	159	31.75	2.0				399	0.09	+	239	0.25	0.001	168	0.51	0.003	95	1.58	0.020			
		SSLA16B6	152	184	38.1	1.5				420	0.07	+	252	0.21	0.001	177	0.42	0.002	100	1.28	0.013			
16C	100 lb./ft. (148.8 kg/M) 16' span	SSLA16C3	76	108	31.75	2.5				278	0.26	0.001	157	0.71	0.004	117	1.45	0.012	102	4.45	0.067			
		SSLA16C4	102	133	31.75	2.5				392	0.14	+	235	0.39	0.002	165	0.80	0.005	110	2.43	0.026			
		SSLA16C5	127	159	44.45	2.0				504	0.09	+	302	0.25	0.001	212	0.51	0.002	120	1.58	0.013			
		SSLA16C6	152	184	38.1	1.5				420	0.10	+	252	0.27	0.001	177	0.55	0.003	100	1.70	0.017			
20A	50 lb./ft. (74.4 kg/M) 20' span	SSLA20A3	76	108	31.75	2.0										87	0.84	0.011	52	2.90	0.060	62	6.96	0.220
		SSLA20A4	102	133	31.75	2.0										129	0.53	0.004	74	1.61	0.022	57	3.87	0.082
		SSLA20A5	127	159	31.75	1.5										130	0.43	0.003	74	1.32	0.020	80	3.17	0.068
		SSLA20A6	152	184	38.1	1.5										177	0.28	0.002	100	0.90	0.009	85	2.04	0.031
20B	75 lb./ft. (111.6 kg/M) 20' span	SSLA20B3	76	108	38.1	2.0										108	1.16	0.011	76	3.57	0.060	39	8.56	0.220
		SSLA20B4	102	133	31.75	2.5										165	0.60	0.004	94	1.93	0.030	76	4.40	0.073
		SSLA20B5	127	159	44.45	2.0										212	0.40	0.002	120	1.16	0.010	76	2.64	0.036
		SSLA20B6	152	184	38.1	2.0										230	0.32	0.001	131	1.00	0.008	84	2.38	0.030
20C	100 lb./ft. (148.8 kg/M) 20' span	SSLA20C3	76	108	38.1	2.5										133	1.24	0.009	105	3.81	0.050	49	9.14	0.190
		SSLA20C4	102	133	31.75	2.5										165	0.80	0.005	111	2.43	0.026	80	5.84	0.097
		SSLA20C5	127	159	44.45	2.5										258	0.43	0.002	147	1.32	0.009	110	3.17	0.033
		SSLA20C6	152	184	50	2.0										283	0.32	0.001	164	0.97	0.006	116	2.24	0.021

SSL A 20C 3 - 600 - 229 - 6000

- SSL: Bar Straight Ladder
- A: Aluminum
- 20C: NEMA Class
- 3: Load Depth
- 600: Width
- 229: Rung Spacing
- 6000: Length

eight = 108mm
orking Load = 148.8kg/M
ngth = 6Meters
ung Spacing = 229mm

To Convert 1.5 Safety factor to 2.0 - Multiply w, d, k by 0.75.
w = Allowable Working Load (Lbs/ft) to convert to kg/M multiply by 1.48
d = Deflection at Midspan (inches) to convert to mm multiply by 25.4
k = Deflection for each pound of load (inches)

NEMA STANDARD LOAD CLASSIFICATION FOR STEEL LADDER

Physical Properties, Load and Deflection Data for Steel Ladder — Working (Allowable) Load Capacity-Evenly Distributed Span (ft.) - Simple Beam - Safety Factor 1.5

NEMA Class Load per Span		SEICO System / System Number	Load Depth	Height	Flange	Thickness	6Ft (1.8M)			8Ft (2.4M)			10Ft (3.1M)			12Ft (3.7M)			16Ft (4.9M)			20Ft (6.1M)		
8A	B= 8 - 0"	SSLS08A3	76	108	21	1.2	345	0.03	+	194	0.11	0.001	116	0.30	0.003									
		SSLS08A4	102	133	21	1.2	474	0.02	+	266	0.06	+	159	0.17	0.001									
		SSLS08A5	127	159	21	1.2	626	0.01	+	352	0.04	+	211	0.11	0.001									
	A=50 lb./ft. (74.4 kg/M)	SSLS08A6	152	184	21	1.2	790	0.01	+	444	0.03	+	266	0.08	+									
8B		SSLS08B3	76	108	21	1.2	345	0.05	+	194	0.16	0.001	116	0.44	0.003									
		SSLS08B4	102	133	21	1.2	474	0.03	+	266	0.10	+	159	0.30	0.002									
	B=75 lb./ft. (111.6 kg/M)	SSLS08B5	127	159	21	1.2	626	0.02	+	352	0.06	+	211	0.20	0.001									
		SSLS08B6	152	184	21	1.2	790	0.01	+	444	0.04	+	266	0.11	+									
8C		SSLS08C3	76	108	21	1.2	345	0.07	+	194	0.21	0.001	116	0.60	0.005									
	C=100 lb./ft. (148.8 kg/M)	SSLS08C4	102	133	21	1.2	474	0.04	+	266	0.13	+	159	0.35	0.002									
		SSLS08C5	127	159	21	1.2	626	0.03	+	352	0.08	+	211	0.22	0.001									
		SSLS08C6	152	184	21	1.2	790	0.02	+	444	0.06	+	266	0.20	0.001									
12A	50 lb./ft (74.4 kg/M) 12' span	SSLS12A3	76	108	21	1.2	345	0.03	+	194	0.11	0.001	116	0.30	0.003	81	0.60	0.007						
		SSLS12A4	102	133	21	1.2	474	0.02	+	266	0.06	+	159	0.17	0.001	112	0.35	0.003						
		SSLS12A5	127	159	21	1.2	626	0.01	+	352	0.04	+	211	0.11	0.001	148	0.23	0.002						
		SSLS12A6	152	184	21	1.2	790	0.01	+	444	0.03	+	266	0.08	+	187	0.20	0.001						
12B	75 lb./ft. (111.6 kg/M) 12' span	SSLS12B3	76	108	21	1.2	345	0.05	+	194	0.16	0.001	116	0.44	0.003	81	0.89	0.011						
		SSLS12B4	102	133	21	1.2	474	0.03	+	266	0.10	+	159	0.30	0.002	112	0.53	0.005						
		SSLS12B5	127	159	21	1.2	626	0.02	+	352	0.06	+	211	0.20	0.001	148	0.34	0.002						
		SSLS12B6	152	184	21	1.2	790	0.01	+	444	0.04	+	266	0.11	+	187	0.23	0.001						
12C	100 lb./ft (148.8 kg/M) 12' span	SSLS12C3	76	108	21	1.5	426	0.06	+	240	0.17	0.001	143	0.50	0.003	101	1.00	0.009						
		SSLS12C4	102	133	21	1.2	474	0.04	+	266	0.13	+	159	0.35	0.002	112	0.71	0.006						
		SSLS12C5	127	159	21	1.5	776	0.02	+	436	0.10	+	261	0.18	0.001	183	0.40	0.002						
		SSLS12C6	152	184	21	1.2	790	0.02	+	444	0.06	+	266	0.20	0.001	187	0.31	0.002						
16A	50 lb./ft (74.4 kg/M) 16' span	SSLS16A3	76	108	32	1.2				247	0.10	+	148	0.23	0.002	103	0.50	0.005	59	1.50	0.024			
		SSLS16A4	102	133	32	1.2				332	0.05	+	199	0.14	0.001	139	0.30	0.002	79	0.88	0.011			
		SSLS16A5	127	159	32	1.2				430	0.03	+	258	0.10	+	181	0.20	0.001	103	0.60	0.006			
		SSLS16A6	152	184	32	1.2				535	0.02	+	321	0.06	+	225	0.13	0.001	128	0.40	0.003			
16B	75 lb./ft. (111.6 kg/M) 16' span	SSLS16B3	76	108	32	1.5				305	0.10	+	183	0.30	0.002	128	0.60	0.005	73	1.75	0.024			
		SSLS16B4	102	133	32	1.2				332	0.08	+	199	0.21	0.001	139	0.43	0.003	79	1.31	0.017			
		SSLS16B5	127	159	32	1.2				430	0.05	+	258	0.14	0.001	181	0.30	0.002	103	0.90	0.008			
		SSLS16B6	152	184	32	1.2				535	0.04	+	321	0.10	+	225	0.20	0.001	128	0.60	0.005			
16C	100 lb./ft. (148.8 kg/M) 16' span	SSLS16C3	76	108	32	1.9				382	0.11	+	229	0.30	0.001	160	0.61	0.004	91	1.90	0.021			
		SSLS16C4	102	133	32	1.5				411	0.10	+	246	0.23	0.001	173	0.50	0.003	98	1.41	0.015			
		SSLS16C5	127	159	32	1.5				534	0.05	+	320	0.15	0.001	224	0.30	0.001	128	0.92	0.007			
		SSLS16C6	152	184	32	1.2				535	0.05	+	321	0.13	+	225	0.26	0.001	128	0.80	0.006			
20A	50 lb./ft. (74.4 kg/M) 20' span	SSLS20A3	76	108	32	1.5										128	0.40	0.003	73	1.17	0.016	47	2.80	0.060
		SSLS20A4	102	133	32	1.5										173	0.23	0.001	98	0.71	0.007	63	1.70	0.027
		SSLS20A5	127	159	32	1.5										224	0.15	0.001	128	0.50	0.004	82	1.10	0.013
		SSLS20A6	152	184	32	1.5										279	0.11	+	159	0.32	0.002	102	0.80	0.009
20B	75 lb./ft (111.6 kg/M) 20' span	SSLS20B3	76	108	32	1.9										160	0.50	0.003	91	1.40	0.015	59	3.36	0.057
		SSLS20B4	102	133	32	1.9										216	0.30	0.001	123	0.90	0.007	79	2.04	0.026
		SSLS20B5	127	159	32	1.5										224	0.22	0.001	128	0.70	0.005	82	1.65	0.020
		SSLS20B6	152	184	32	1.5										279	0.16	0.001	159	0.50	0.003	102	1.15	0.011
20C	100 lb./ft. (148.8 kg/M) 20' span	SSLS20C3	76	108	32	2.5										207	0.50	0.002	118	1.50	0.012	78	3.40	0.046
		SSLS20C4	102	133	32	1.9										216	0.40	0.002	123	1.13	0.009	79	2.71	0.034
		SSLS20C5	127	159	32	1.9										281	0.24	0.001	160	0.73	0.005	103	1.76	0.017
		SSLS20C6	152	184	32	1.9										351	0.17	0.001	200	0.51	0.003	129	1.22	0.010

SSL S 20C 3 - 600 - 229 - 6000

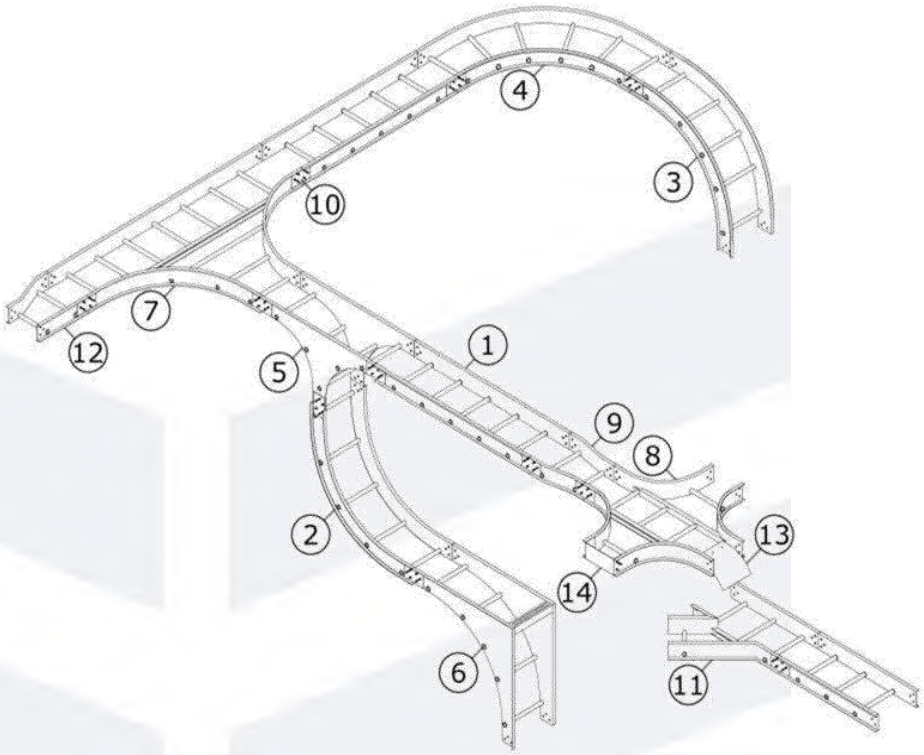
- SSL: Tubular Straight Ladder
- S: Steel
- 20C: NEMA Class
- 3: Load Depth
- 600: Width
- 229: Rung Spacing
- 6000: Length

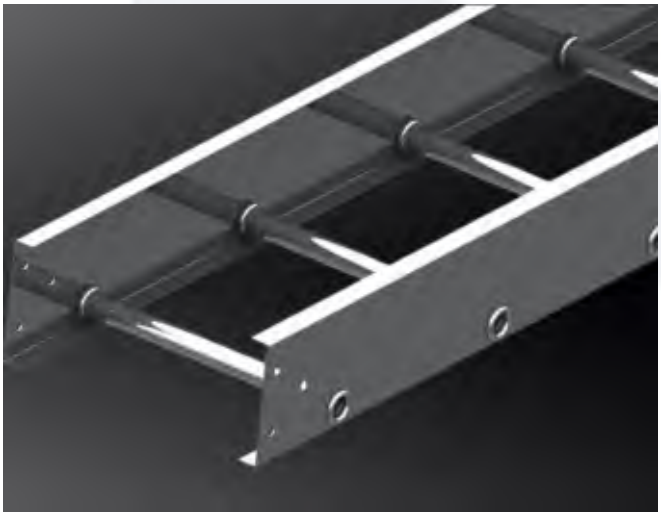
eight = 108mm
orking Load = 148.8kg/M
gth = 6Meters
ng Spacing = 229mm

To Convert 1.5 Safety factor to 2.0 - Multiply w, d, k by 0.75.
w = Allowable Working Load (Lbs/ft) to convert to kg/M multiply by 1.48
d = Deflection at Midspan (Inches) to convert to mm multiply by 25.4
k = Deflection for each pound of load (Inches)
• flection is ! han !

TUBULAR (SWAGED) TYPE

1. Cable Ladder Straight
2. 90° Inside Vertical Elbow
3. 90° Outside Vertical Elbow
4. 90° Horizontal Elbow
5. Vertical Tee
6. 90° Vertical Cable Support Elbow
7. Horizontal Tee
8. Horizontal Cross
9. Straight Reducer
10. Universal Connector
11. Left Hand T Branch
12. Left Hand Reducer
13. Drop – out
14. Blind End

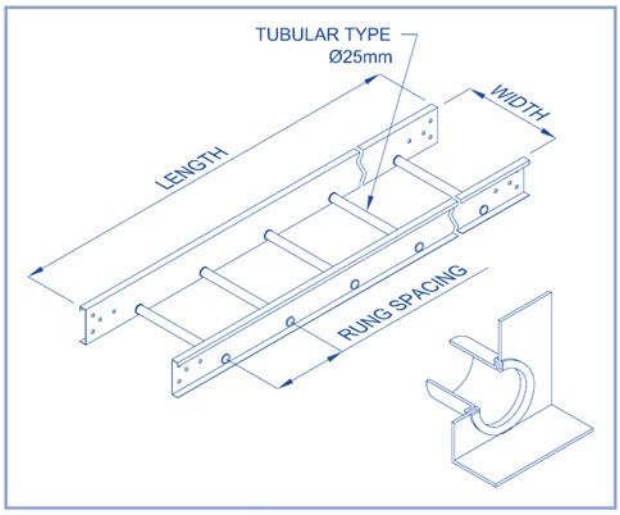


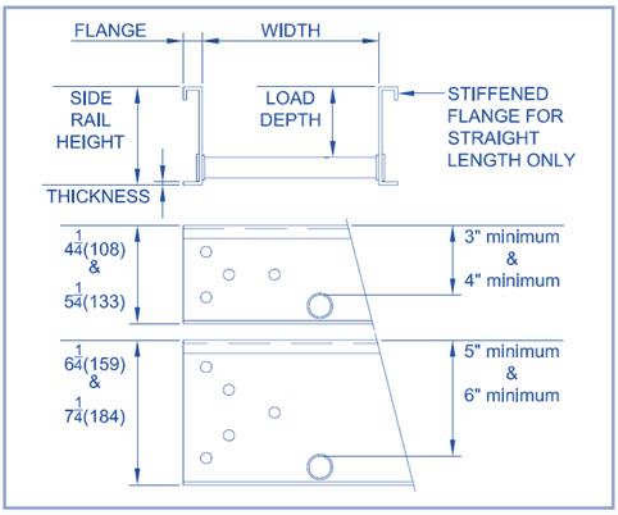


BMC Tubular (Swaged) System meets NEMA VE-1 / and IEC 61537 Standards and consists of flange side rails which are stiffened on the top to give more strength and load capacity. Every two side rails are attached to each other by tubular rung 25mm diameter and is connected through our highly innovative process called SWAGING.

This kind of system makes easy and fast installation and provides high loading capacity system as well as less contact area between cables and rungs which reduces heating up cables.

TUBULAR (SWAGED) TYPE

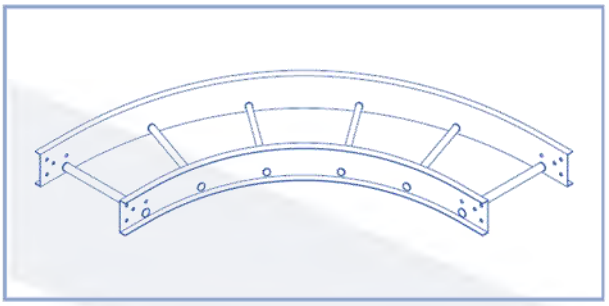


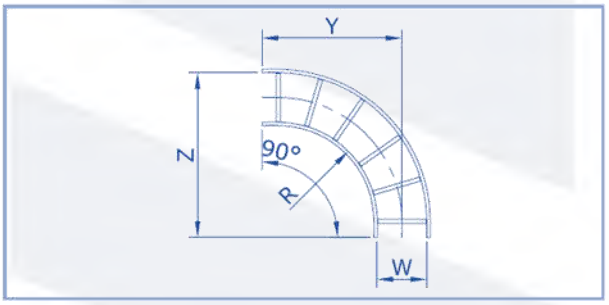


FINISHING	Hot Dip Galvanized After Fabrication Hot Dip Galvanized and Powder Coated		
MATERIALS	Steel Aluminum Stainless Steel	RUNG SPACING	6inches 152mm 9inches 229mm 12Inches 305mm 18Inches 457mm
LOAD DEPTH	3Inches 76mm 4inches 102mm 5inches 127mm 6inches 152mm	SIDE RAIL HEIGHT	4¼inches 108mm 5¼Inches 133mm 6¼Inches 159mm 7¼inches 184mm
NEMA CLASS	8A 16A 8B 16B 8C 16C 12A 20A 12B 20B 12C 20C	SIDE RAIL THICKNESS	18ga. 1.0mm 16ga. 1.5mm 14ga. 2.0mm 12ga. 2.5mm 11ga. 3.0mm
FLANGE SIZES	13/16inches 20.6(or 21)mm 1¼Inches 31.75(or 32)mm 1½inches 38.1(or 38)mm 1¾inches 44.45(or 44)mm 2inches 50mm	LENGTH	8Feet 2440mm 10Feet 3000mm 12Feet 3700mm 16Feet 4900mm 20Feet 6000mm 24Feet 7300mm
WIDTH	36Inches 914mm 30Inches 762mm 24Inches 610mm 18Inches 457mm 12inches 305mm 9inches 229mm 6inches 152mm	FITTING RADIUS	36Inches 914mm 24Inches 610mm 12Inches 305mm

TUBULAR (SWAGED) TYPE-FITTINGS

90° HORIZONTAL ELBOW



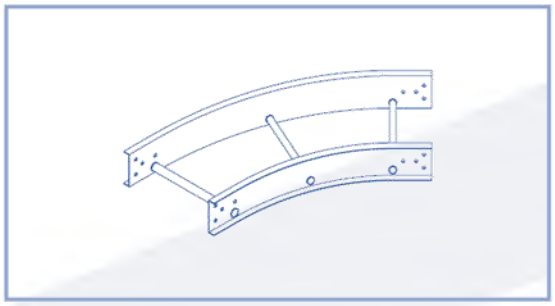


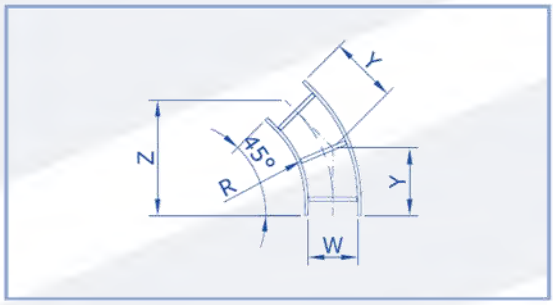
Reference : SHE 12 06 - 90 S 3

- SHE — Horizontal Elbow
- 12 — Radius
- 06 — Width
- 90 — Degree
- S — Material
- 3 — Load Depth

Radius (R)		Width (W)		Dimension	
inches	mm	inches	mm	'Y' mm	'Z' mm
12	305	06	152	481	557
12	305	09	229	519	634
12	305	12	305	557	710
12	305	18	457	633	862
12	305	24	610	710	1015
12	305	30	762	786	1167
12	305	36	914	862	1319
24	610	06	152	786	862
24	610	09	229	824	939
24	610	12	305	862	1015
24	610	18	457	938	1167
24	610	24	610	1015	1320
24	610	30	762	1091	1472
24	610	36	914	1167	1624
36	914	06	152	1090	1166
36	914	09	229	1128	1243
36	914	12	305	1166	1319
36	914	18	457	1242	1471
36	914	24	610	1319	1624
36	914	30	762	1395	1776
36	914	36	914	1471	1928

45° HORIZONTAL ELBOW





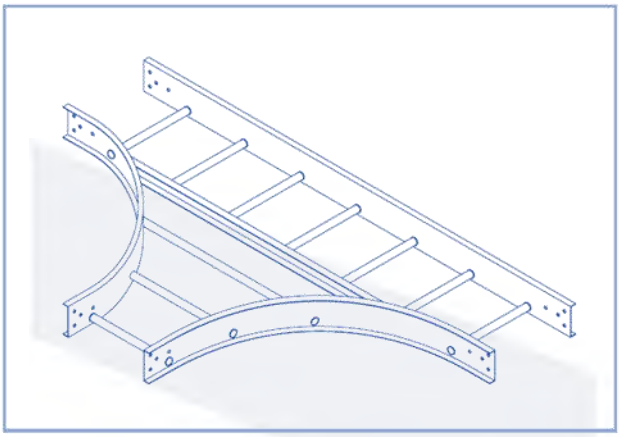
Reference : SHE 12 06 - 45 S 3

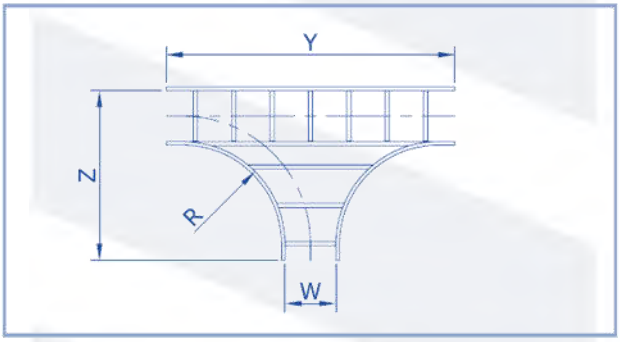
- SHE — Horizontal Elbow
- 12 — Radius
- 06 — Width
- 45 — Degree
- S — Material
- 3 — Load Depth

Radius (R)		Width (W)		Dimension	
inches	mm	inches	mm	'Y' mm	'Z' mm
12	305	06	152	258	440
12	305	09	229	274	467
12	305	12	305	290	494
12	305	18	457	321	548
12	305	24	610	353	602
12	305	30	762	384	656
12	305	36	914	416	710
24	610	06	152	384	656
24	610	09	229	400	683
24	610	12	305	416	710
24	610	18	457	447	764
24	610	24	610	479	818
24	610	30	762	510	871
24	610	36	914	542	925
36	914	06	152	510	871
36	914	09	229	526	898
36	914	12	305	542	925
36	914	18	457	573	979
36	914	24	610	605	1033
36	914	30	762	636	1086
36	914	36	914	668	1140

TUBULAR (SWAGED) TYPE-FITTINGS

HORIZONTAL TEE



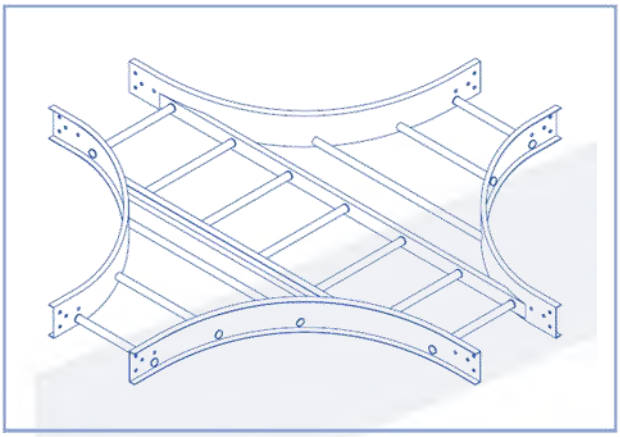


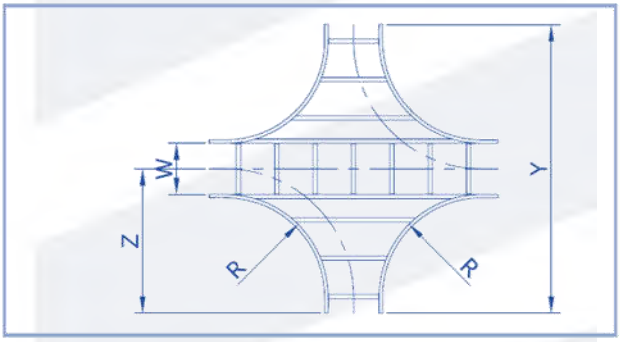
Reference : SHT 12 06 - S 3

- Horizontal Tee
- Radius
- Width
- Load Depth
- Material

Radius (R)		Width (W)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
12	305	06	152	962	557
12	305	09	229	1039	634
12	305	12	305	1115	710
12	305	18	457	1267	862
12	305	24	610	1420	1015
12	305	30	762	1572	1167
12	305	36	914	1724	1319
24	610	06	152	1572	862
24	610	09	229	1649	939
24	610	12	305	1725	1015
24	610	18	457	1877	1167
24	610	24	610	2030	1320
24	610	30	762	2182	1472
24	610	36	914	2334	1624
36	914	06	152	2180	1166
36	914	09	229	2257	1243
36	914	12	305	2333	1319
36	914	18	457	2485	1471
36	914	24	610	2638	1624
36	914	30	762	2790	1776
36	914	36	914	2942	1928

HORIZONTAL CROSS





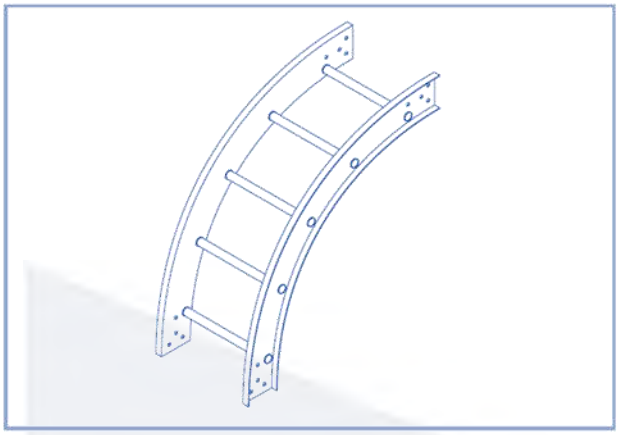
Reference : SHC 12 06 - S 3

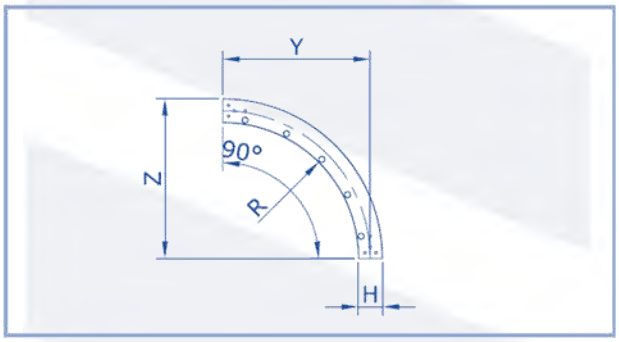
- Horizontal Cross
- Radius
- Width
- Load Depth
- Material

Radius (R)		Width (W)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
12	305	06	152	962	481
12	305	09	229	1039	520
12	305	12	305	1115	558
12	305	18	457	1267	634
12	305	24	610	1420	710
12	305	30	762	1572	786
12	305	36	914	1724	862
24	610	06	152	1572	786
24	610	09	229	1649	825
24	610	12	305	1725	863
24	610	18	457	1877	939
24	610	24	610	2030	1015
24	610	30	762	2182	1091
24	610	36	914	2334	1167
36	914	06	152	2180	1090
36	914	09	229	2257	1129
36	914	12	305	2333	1167
36	914	18	457	2485	1243
36	914	24	610	2638	1319
36	914	30	762	2790	1395
36	914	36	914	2942	1471

TUBULAR (SWAGED) TYPE-FITTINGS

90° VERTICAL OUTSIDE ELBOW





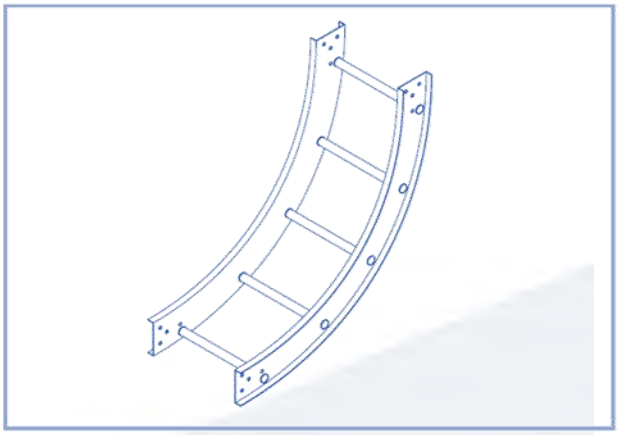
Reference : SVEO 12 06 - 90 S 3

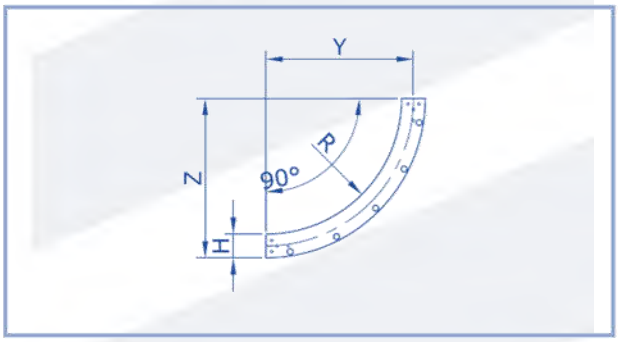
- SVEO — Vertical Out Elbow
- 12 — Radius
- 06 — Width
- 90 — Degree
- S — Material
- 3 — Load Depth

Height (H)		Radius (R)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	413
4-1/4	108	24	610	664	718
4-1/4	108	36	914	968	1022
5-1/4	133	12	305	372	438
5-1/4	133	24	610	677	743
5-1/4	133	36	914	981	1047
6-1/4	159	12	305	385	464
6-1/4	159	24	610	690	769
6-1/4	159	36	914	994	1073
7-1/4	184	12	305	397	489
7-1/4	184	24	610	702	794
7-1/4	184	36	914	1006	1098

Width in inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

45° VERTICAL INSIDE ELBOW





Reference : SVEI 12 06 - 90 S 3

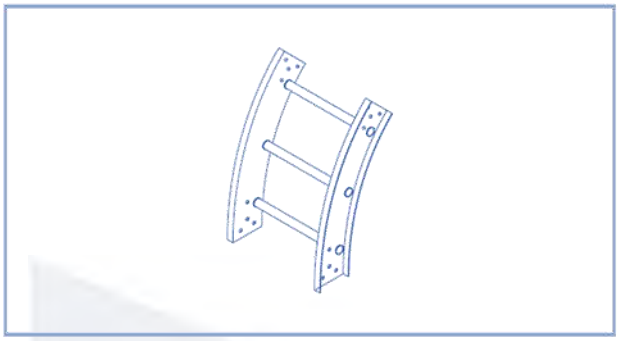
- SVEI — Vertical In Elbow
- 12 — Radius
- 06 — Width
- 90 — Degree
- S — Material
- 3 — Load Depth

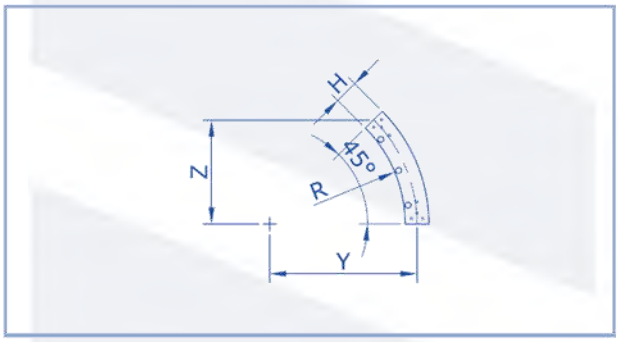
Height (H)		Radius (R)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	413
4-1/4	108	24	610	664	718
4-1/4	108	36	914	968	1022
5-1/4	133	12	305	372	438
5-1/4	133	24	610	677	743
5-1/4	133	36	914	981	1047
6-1/4	159	12	305	385	464
6-1/4	159	24	610	690	769
6-1/4	159	36	914	994	1073
7-1/4	184	12	305	397	489
7-1/4	184	24	610	702	794
7-1/4	184	36	914	1006	1098

Width in inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

TUBULAR (SWAGED) TYPE-FITTINGS

90° VERTICAL OUTSIDE ELBOW





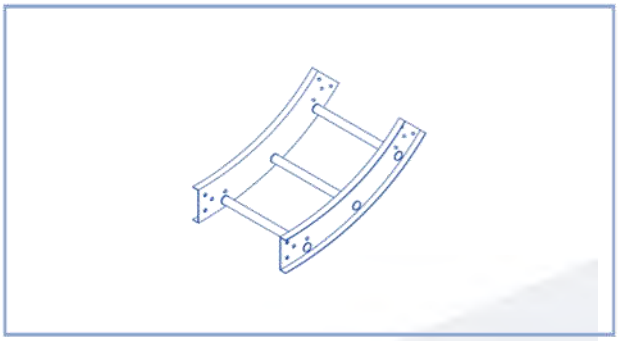
Reference : SVEO 12 06 - 45 S 3

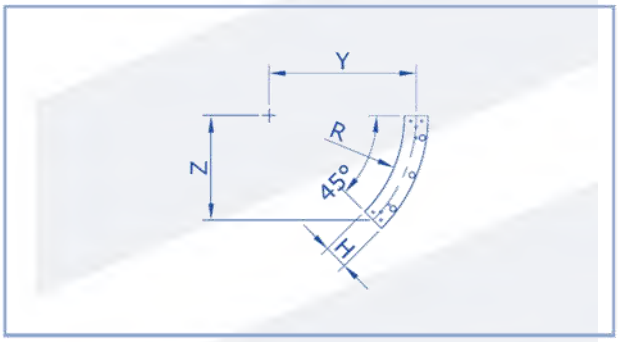
- SVEO — Vertical Out Elbow
- 12 — Radius
- 06 — Width
- 45 — Degree
- S — Material
- 3 — Load Depth

Height (H)		Radius (R)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	254
4-1/4	108	24	610	664	470
4-1/4	108	36	914	968	684
5-1/4	133	12	305	372	263
5-1/4	133	24	610	677	478
5-1/4	133	36	914	981	693
6-1/4	159	12	305	385	272
6-1/4	159	24	610	690	488
6-1/4	159	36	914	994	703
7-1/4	184	12	305	397	281
7-1/4	184	24	610	702	496
7-1/4	184	36	914	1006	711

Width In Inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

45° VERTICAL INSIDE ELBOW





Reference : SVEI 12 06 - 45 S 3

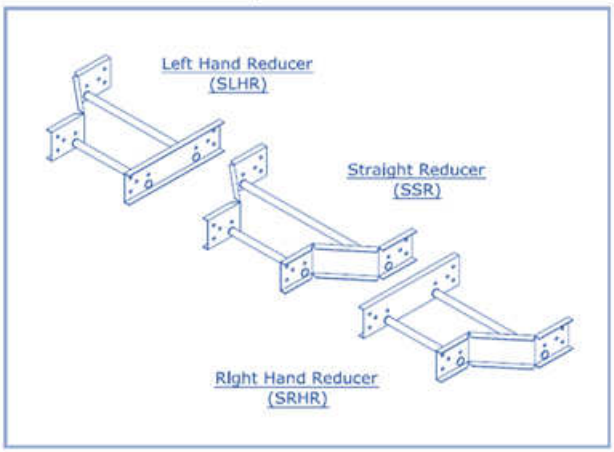
- SVEI — Vertical In Elbow
- 12 — Radius
- 06 — Width
- 45 — Degree
- S — Material
- 3 — Load Depth

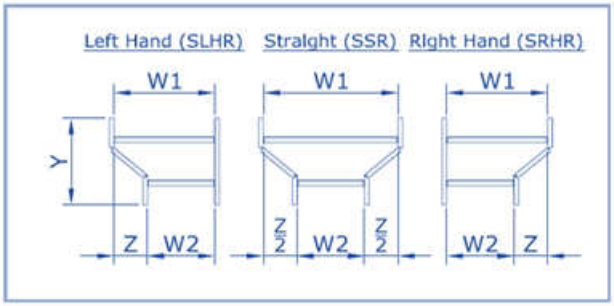
Height (H)		Radius (R)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	254
4-1/4	108	24	610	664	470
4-1/4	108	36	914	968	684
5-1/4	133	12	305	372	263
5-1/4	133	24	610	677	478
5-1/4	133	36	914	981	693
6-1/4	159	12	305	385	272
6-1/4	159	24	610	690	488
6-1/4	159	36	914	994	703
7-1/4	184	12	305	397	281
7-1/4	184	24	610	702	496
7-1/4	184	36	914	1006	711

Width In Inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

TUBULAR (SWAGED) TYPE-FITTINGS

REDUCERS



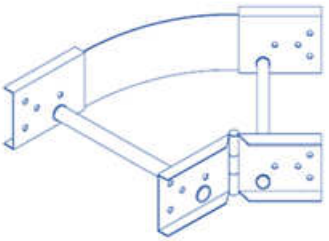


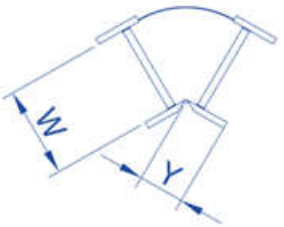
Reference : SRHR 12 06 - S 3

- SRHR — Right Hand Reducer
- 12 — Width - 1
- 06 — Width - 2
- S — Load Depth
- 3 — Material

Width (W1)		Width (W2)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
36	914	30	762	400	152
36	914	24	610	400	304
36	914	18	457	400	457
36	914	12	305	400	609
36	914	09	229	400	685
36	914	06	152	400	762
30	762	24	610	400	152
30	762	18	457	400	305
30	762	12	305	400	457
30	762	09	229	400	533
30	762	06	152	400	610
24	610	18	457	400	153
24	610	12	305	400	305
24	610	09	229	400	381
24	610	06	152	400	458
18	457	12	305	400	152
18	457	09	229	400	228
18	457	06	152	400	305
12	305	09	229	400	76
12	305	06	152	400	153
09	229	06	152	400	77

HORIZONTAL ADJUSTABLE ELBOW





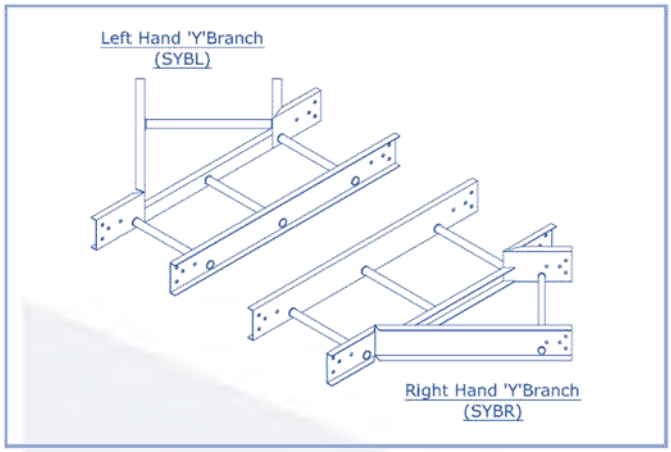
Reference : SAE 12 - S 3

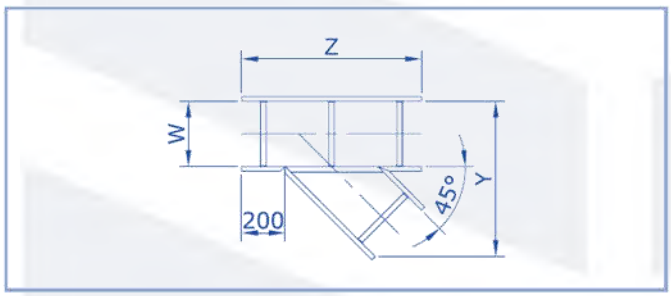
- SAE — Horizontal Adjustable Elbow
- 12 — Width
- S — Load Depth
- 3 — Material

Width (W)		Dimension (Y)
inches	mm	mm
06	152	150
09	229	150
12	305	150
18	457	150
24	610	150
30	762	150
36	914	150

TUBULAR (SWAGED) TYPE-FITTINGS

45° 'Y' BRANCH



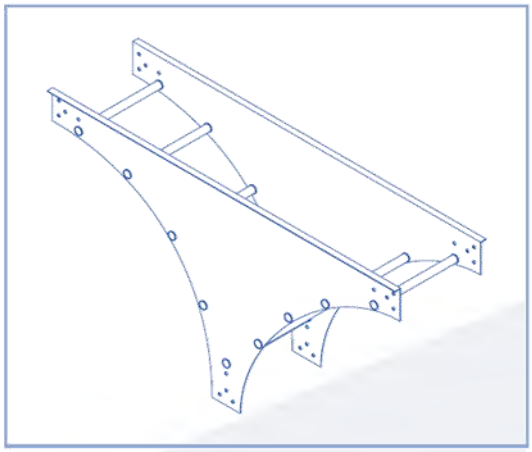


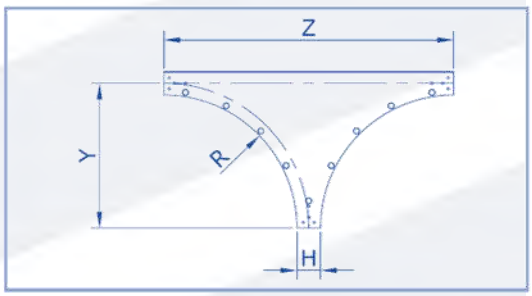
Reference : SYBR 12 - S 3

- Right Hand 'Y' Branch
- Width
- Load Depth
- Material

Width (W)		Dimension	
inches	mm	'Y' mm	'Z' mm
06	152	459	615
09	229	591	724
12	305	721	831
18	457	980	1046
24	610	1241	1263
30	762	1501	1478
36	914	1760	1693

VERTICAL TEE





Reference : SVT 12 06 - S 3

- Vertical Tee
- Radius
- Width
- Load Depth
- Material

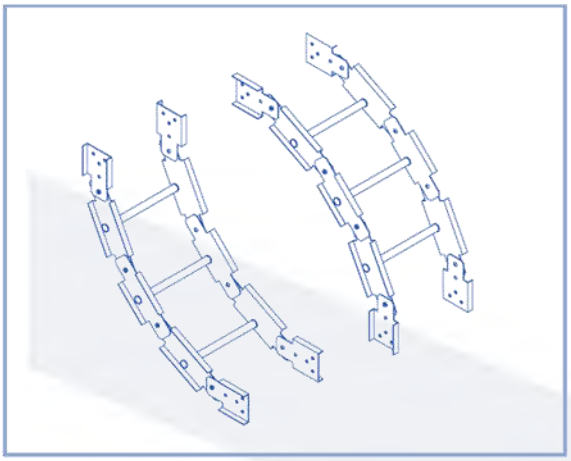
Height (H)		Radius (R)		Dimension	
inches	mm	inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	718
4-1/4	108	24	610	664	1328
4-1/4	108	36	914	968	1936
5-1/4	133	12	305	372	743
5-1/4	133	24	610	677	1353
5-1/4	133	36	914	981	1961
6-1/4	159	12	305	385	769
6-1/4	159	24	610	690	1379
6-1/4	159	36	914	994	1073
7-1/4	184	12	305	397	794
7-1/4	184	24	610	702	1404
7-1/4	184	36	914	1006	2012

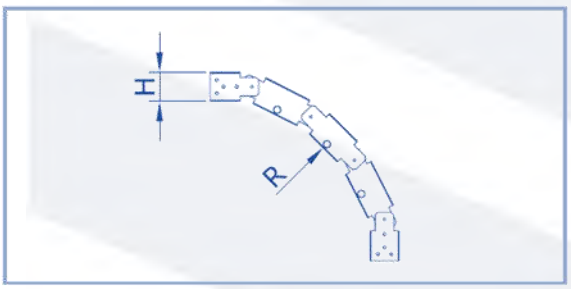
Width in inches :

Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

TUBULAR (SWAGED) TYPE-FITTINGS

VERTICAL ADJUSTABLE BEND





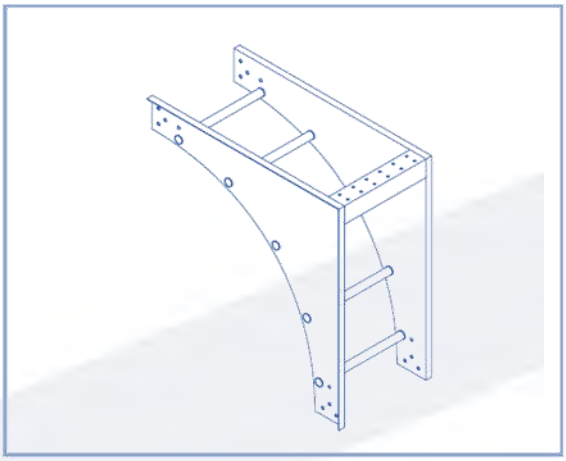
Reference : SAV 12 06 - S 3

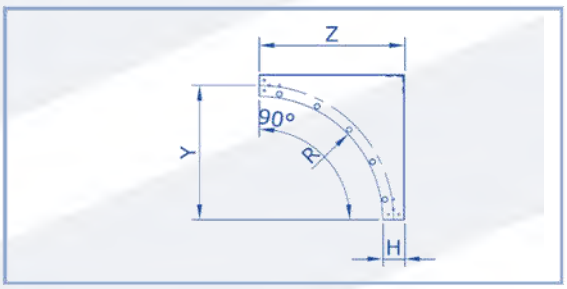
- Vertical Adj. Elbow
- Radius
- Width
- Load Depth
- Material

Height (H)		Radius (R)	
inches	mm	inches	mm
4-1/4	108	12	305
4-1/4	108	24	610
4-1/4	108	36	914
5-1/4	133	12	305
5-1/4	133	24	610
5-1/4	133	36	914
6-1/4	159	12	305
6-1/4	159	24	610
6-1/4	159	36	914
7-1/4	184	12	305
7-1/4	184	24	610
7-1/4	184	36	914

Width in inches :
Use 06 for 6" W 18 for 18" W 36 for 36" W
09 for 9" W 24 for 24" W
12 for 12"W 30 for 30" W

45° VERTICAL CABLE SUPPORT ELBOW





Reference : SVS 12 06 - S 3

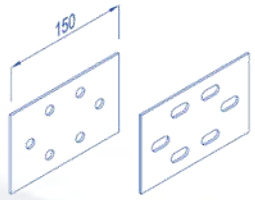
- Vertical Support
- Radius
- Width
- Load Depth
- Material

Height (H)		Radius (R)		Dimension	
inches	mm	inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	413
4-1/4	108	24	610	664	718
4-1/4	108	36	914	968	1022
5-1/4	133	12	305	372	438
5-1/4	133	24	610	677	743
5-1/4	133	36	914	981	1047
6-1/4	159	12	305	385	464
6-1/4	159	24	610	690	769
6-1/4	159	36	914	994	1073
7-1/4	184	12	305	397	489
7-1/4	184	24	610	702	794
7-1/4	184	36	914	1006	1098

Width in inches :
Use 06 for 6" W 18 for 18" W 36 for 36" W
09 for 9" W 24 for 24" W
12 for 12"W 30 for 30" W

TUBULAR (SWAGED) TYPE-ACCESSORIES

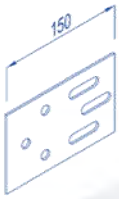
UNIVERSAL CONNECTOR



Reference : UC 3 S

- UC — Universal Connector
- 3 — Load Depth
- S — Material

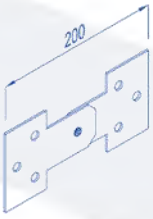
EXPANSION CONNECTOR



Reference : EC 3 S

- EC — Expansion Connector
- 3 — Load Depth
- S — Material

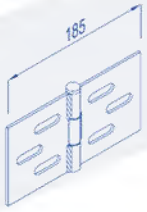
VERTICAL ADJUSTABLE CONNNECTOR



Reference : VAC 3 S

- VAC — Vertical Adj. Connector
- 3 — Load Depth
- S — Material

HORIZONTAL ADJUSTABLE CONNNECTOR



Reference : HAC 3 S

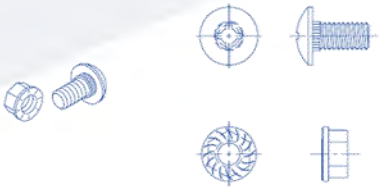
- HAC — Horizontal Adj. Connector
- 3 — Load Depth
- S — Material

90° ANGLE CONNECTOR

Reference : AC 3 S

- AC — 90° Angle Connector
- 3 — Load Depth
- S — Material

CONNECTOR HARDWARE

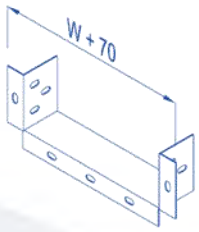


Reference : CS1 SS

- CS1 — 3/8" x 16mm Spline Bolt with Serrated Washer Face Nut
- SS — Stainless Steel
- EG — Electro Galvanized
- HG — Hot Dip Galvanized

TUBULAR (SWAGED) TYPE-ACCESSORIES

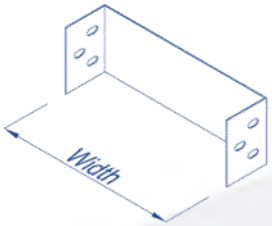
BOX CONNECTOR



Reference : BC 06 3 S

- BC — Box Connector
- 06 — Width
- 3 — Load Depth
- S — Material

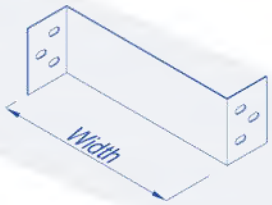
BLIND END



Reference : BE 06 3 S

- BE — Blind End
- 06 — Width
- 3 — Load Depth
- S — Material

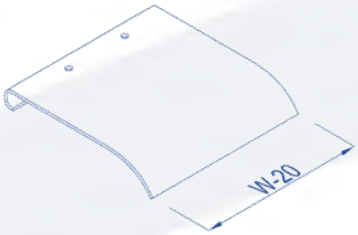
REDUCING CONNECTOR



Reference : RC 06 3 S

- RC — Reducing Connector
- 06 — Width
- 3 — Load Depth
- S — Material

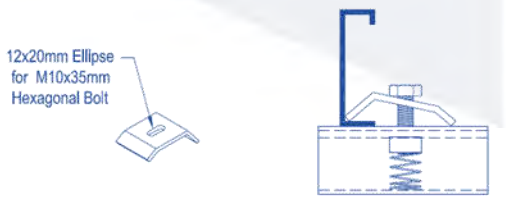
DROP OUT



Reference : DO 06 S

- DO — Drop Out
- 06 — Width
- S — Material

HOLD DOWN CLAMP



Reference : SHDC - S

- SHDC — Hold Down Clamp
- S — Material

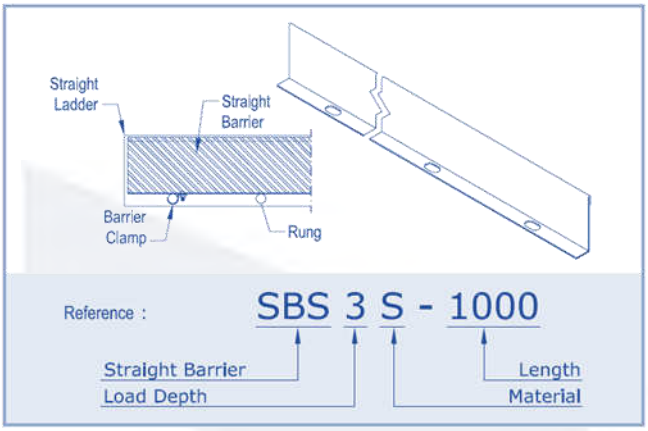
EXPANSION GUIDE

Reference : SEG - S

- SEG — Expansion Guide
- S — Material

TUBULAR (SWAGED) TYPE-ACCESSORIES

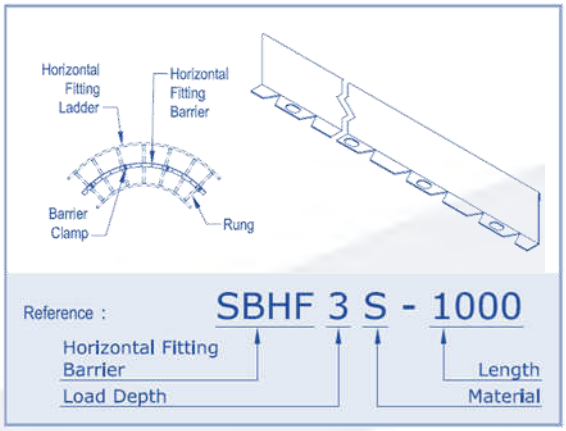
BARRIER STRIP STRAIGHT SECTION



Reference : SBS 3 S - 1000

- SBS — Straight Barrier
- 3 — Load Depth
- S — Material
- 1000 — Length

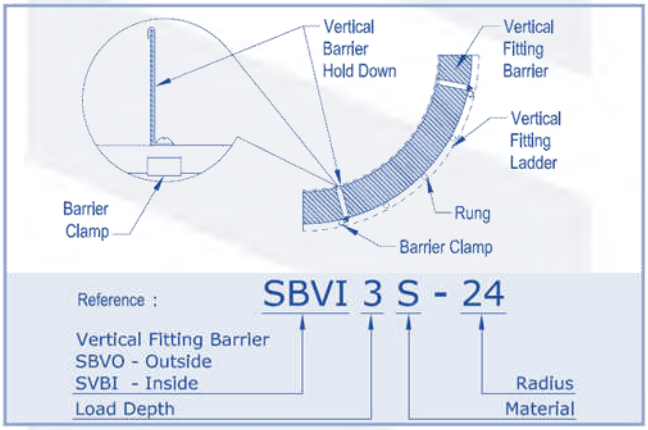
BARRIER STRIP HORIZONTAL FITTING



Reference : SBHF 3 S - 1000

- SBHF — Horizontal Fitting Barrier
- 3 — Load Depth
- S — Material
- 1000 — Length

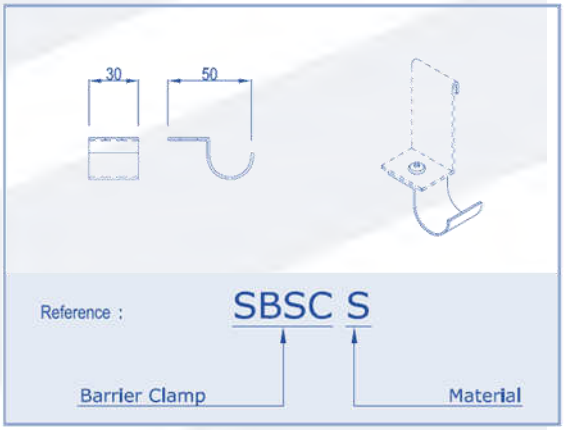
BARRIER STRIP VERTICAL FITTING



Reference : SBVI 3 S - 24

- SBVI — Vertical Fitting Barrier
  - SBVO - Outside
  - SVBI - Inside
- 3 — Load Depth
- S — Material
- 24 — Radius

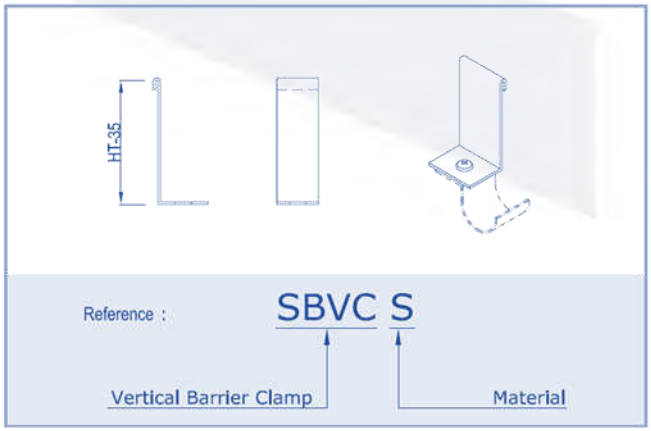
BARRIER STRIP CLAMP



Reference : SBSC S

- SBSC — Barrier Clamp
- S — Material

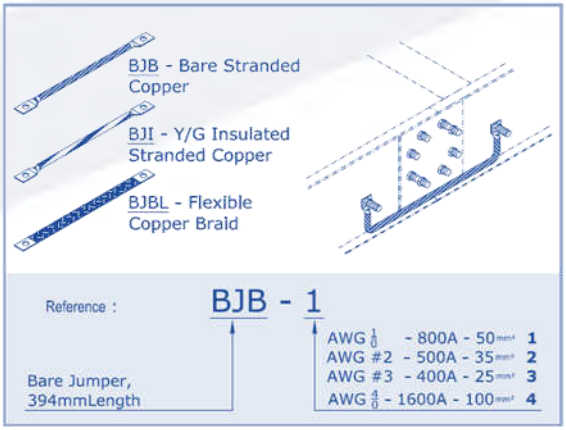
VERTICAL BARRIER HOLD DOWN



Reference : SBVC S

- SBVC — Vertical Barrier Clamp
- S — Material

BONDING JUMPER

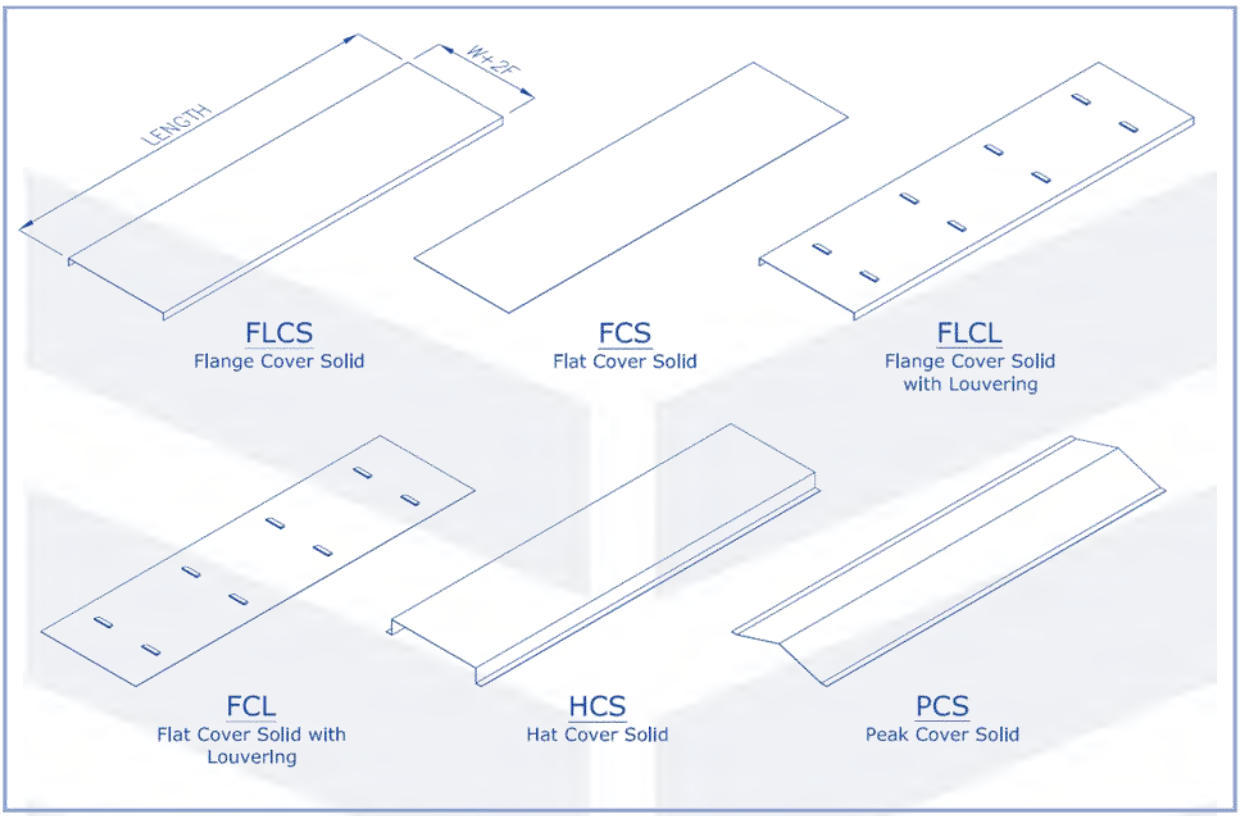


Reference : BJB - 1

- BJB — Bare Jumper, 394mmLength
- 1
  - AWG 1/0 - 800A - 50mm² 1
  - AWG #2 - 500A - 35mm² 2
  - AWG #3 - 400A - 25mm² 3
  - AWG 4/0 - 1600A - 100mm² 4

TUBULAR (SWAGED) TYPE-COVERS

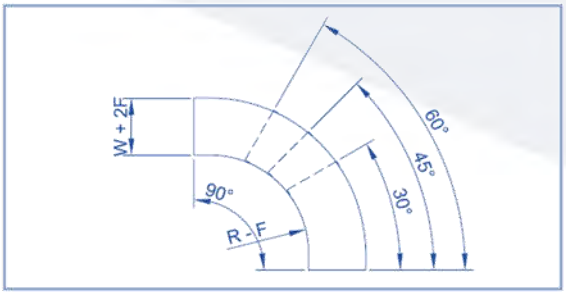
STRAIGHT LENGTH COVERS



Reference : FLCL - 600 - 21 - 3000 S

- FLCL: Flange Cover Solid with Louvering
- 600: Width
- 21: Side Rail Flange
- 3000: Length
- S: Material

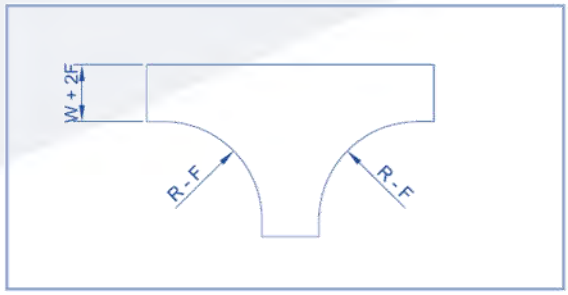
HORIZONTAL ELBOW COVER



Reference : SHEC 12 06 - 90 S

- SHEC: Horizontal Elbow Cover
- 12: Radius
- 06: Width
- 90: Degree
- S: Material

HORIZONTAL TEE COVER

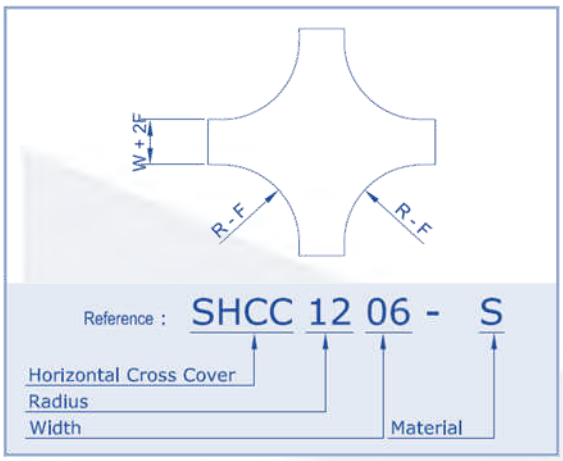


Reference : SHTC 12 06 - S

- SHTC: Horizontal Tee Cover
- 12: Radius
- 06: Width
- S: Material

TUBULAR (SWAGED) TYPE-COVERS

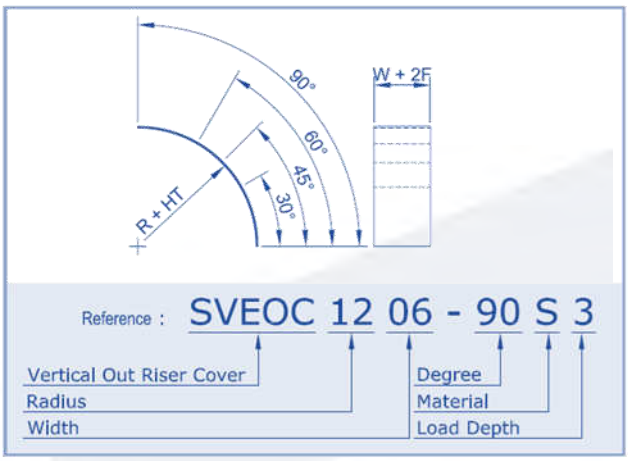
HORIZONTAL CROSS COVER



Reference : SHCC 12 06 - S

- SHCC — Horizontal Cross Cover
- 12 — Radius
- 06 — Width
- S — Material

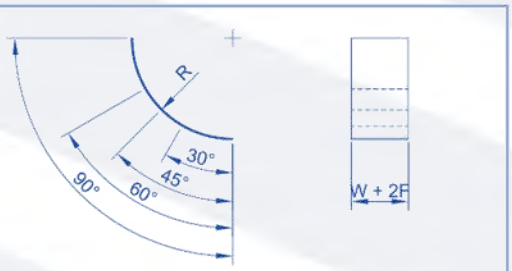
VERTICAL OUTSIDE RISER COVER



Reference : SVEOC 12 06 - 90 S 3

- SVEOC — Vertical Out Riser Cover
- 12 — Radius
- 06 — Width
- 90 — Degree
- S — Material
- 3 — Load Depth

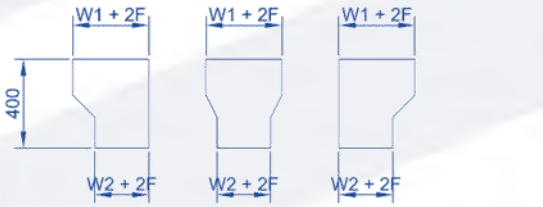
VERTICAL INSIDE RISER COVER



Reference : SVEIC 12 06 - 90 S

- SVEIC — Vertical In Riser Cover
- 12 — Radius
- 06 — Width
- 90 — Degree
- S — Material

REDUCER COVER

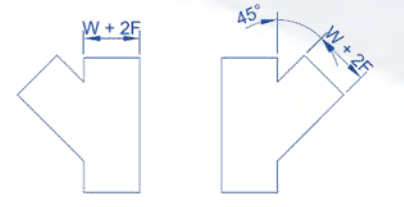


Left Hand Reducer Cover (SLHRC) | Straight Reducer Cover (SSRC) | Right Hand Reducer Cover (SRHRC)

Reference : SSRC 12 06 - S

- SSRC — Straight Reducer Cover
- 12 — Width -1
- 06 — Width -2
- S — Material

45⁰ 'Y' BRANCH COVER



Left Hand 'Y'Branch Cover (SYBLC) | Right Hand 'Y'Branch Cover (SYBRC)

Reference : SYBRC 12 06 - 45 S

- SYBRC — 45° Right Hand 'Y' Branch Cover
- 12 — Radius
- 06 — Width
- 45 — Degree
- S — Material

VERTICAL & HORIZONTAL PLATE COVERS

Vertical Support Cover (SVSC) | Vertical Tee Cover (SVTC)

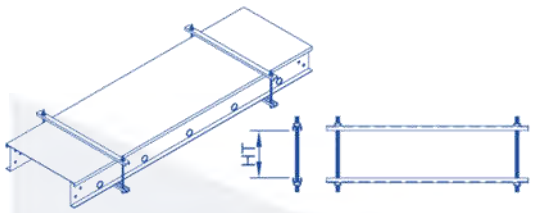
Horizontal Adj. Cover (SAEC) | Vertical Adj. Cover (SAVC)

Reference : SAEC 12 06 - S

- SAEC — Horizontal Adj. Elbow Cover
- 12 — Radius
- 06 — Width
- S — Material

TUBULAR (SWAGED) TYPE-COVERS

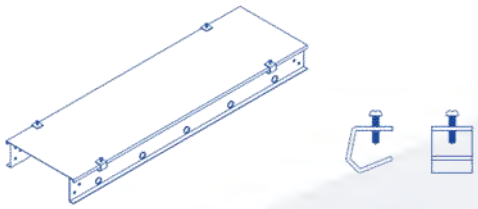
DOUBLE COVER CLAMP CONNECTOR



Reference : CC 06 3 S

- CC — Double Clamp Cover Connector
- 06 — Width
- 3 — Load Depth
- S — Material

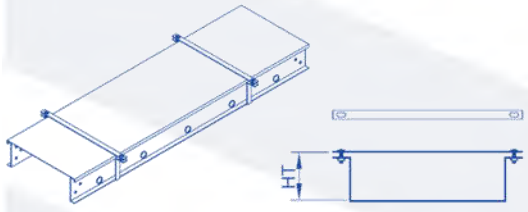
COVER CLIP



Reference : SCC S

- SCC — Cover CLip Connector
- S — Material

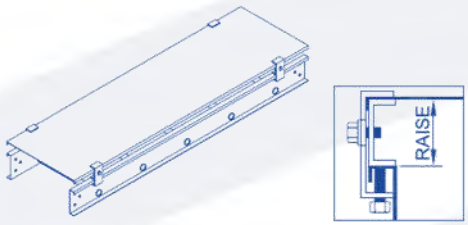
WRAPAROUND COVER CONNECTOR



Reference : WC 06 3 S

- WC — Wraparound Cover Connector
- 06 — Width
- 3 — Load Depth
- S — Material

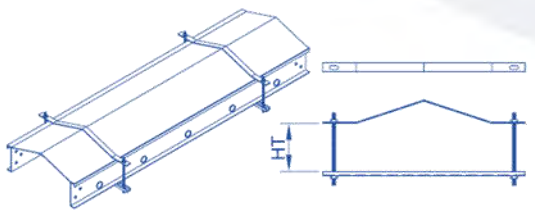
ELEVATED COVER CONNECTOR



Reference : AC S

- AC — Elevated Cover Connector
- S — Material

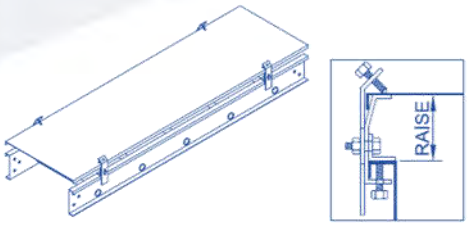
PEAK COVER CONNECTOR



Reference : SPCC 06 3 S

- SPCC — Peak Cover Connector
- 06 — Width
- 3 — Load Depth
- S — Material

ELEVATED COVER CONNECTOR

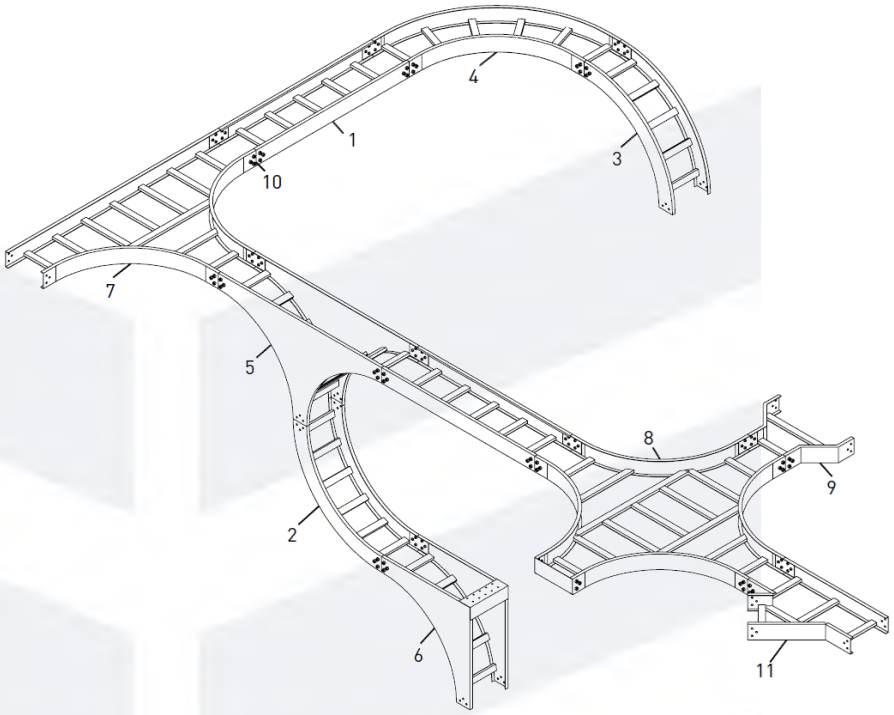


Reference : SECC S

- SECC — Elevated Cover Connector
- S — Material

WELDED TYPE

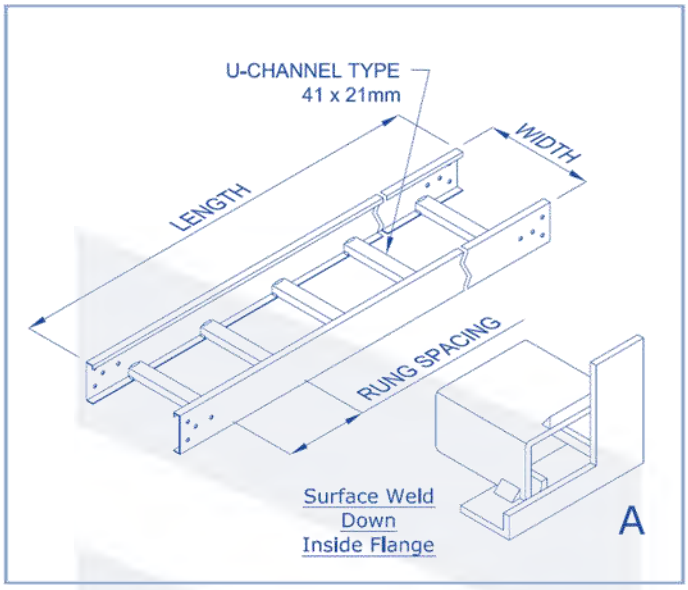
1. Cable Ladder Straight
2. 90° Inside Vertical Elbow
3. 90° Outside Vertical Elbow
4. 90° Horizontal Elbow
5. Vertical Tee
6. 90° Vertical Cable Support
7. Horizontal Tee
8. Horizontal Cross
9. Straight Reducer
10. Universal Connector
11. T Branch

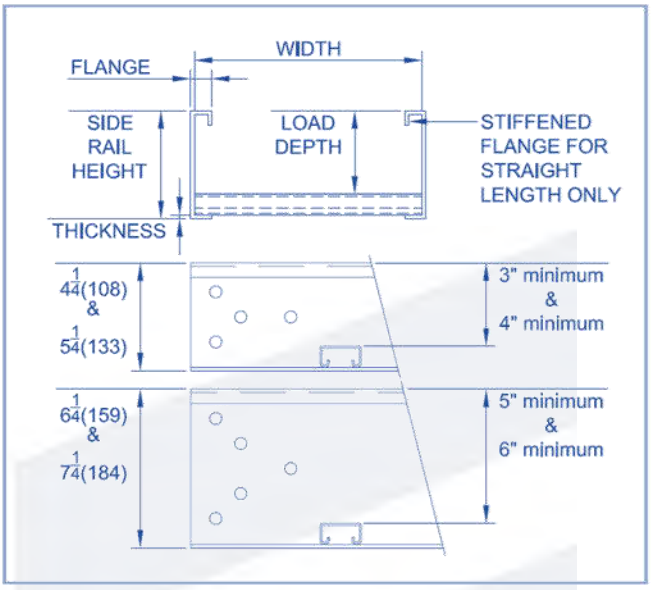


BMC Channel Welded System consists of top stiffened flange side rails which could be from inside of outside. Two side members are attached by channel rung profile through Welding.

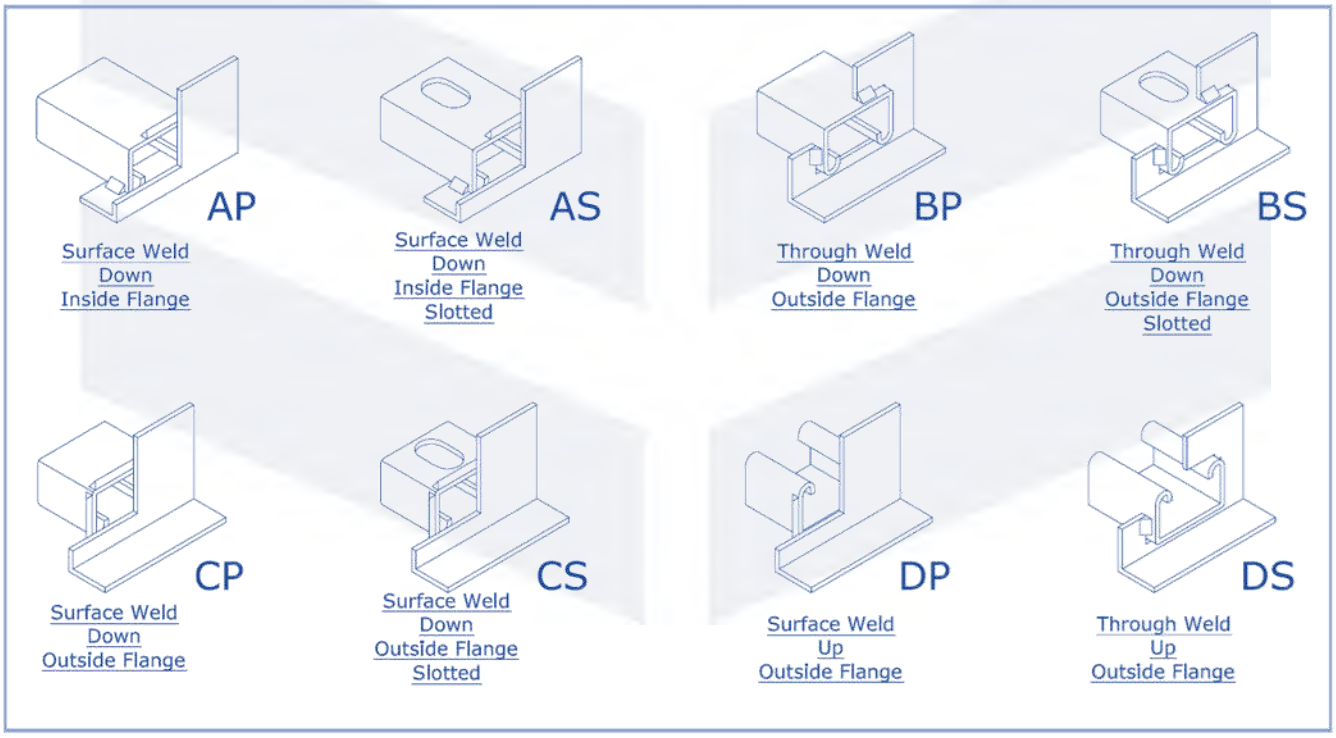
Outside flange installation provides wider space than inside flange, in return, Inside Flange is more rigid.

WELDED TYPE





TYPES:



WELDED TYPE

Note: On order specify Bakriya System Number together with the Width, Rung Spacing and Length accordingly.

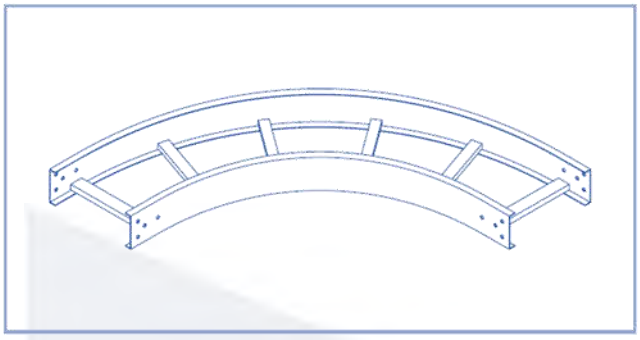
Reference: B - WSL - S - 12C - 2 - 150 - 229 - 3000 - 21 - 2 - CS

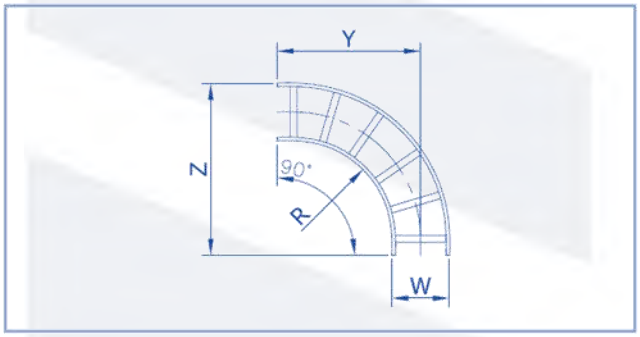
- B — BMC
- WSL — Welded Straight Ladder
- S — Material
- 12C — NEMA Class
- 2 — Load Depth
- 150 — Width
- 229 — Rung Spacing
- 3000 — Length
- 21 — Flange Width
- 2 — Thickness
- CS — Type

FINISHING	Hot Dip Galvanized After Fabrication (HDG) Hot Dip Galvanized and Powder Coated (HDG-PC)		
MATERIALS	Steel Aluminum Stainless Steel	RUNG SPACING	6 inches 150mm 9 inches 229mm 12 inches 300mm 18 inches 450mm
LOAD DEPTH	2 inches 68mm 3 inches 76mm 4 inches 102mm 4.5 inches 118mm 5 inches 127mm 6 inches 152mm	SIDE RAIL HEIGHT	4 inches 100mm 4¼ inches 108mm 5¼ inches 133mm 6 inches 150mm 6¼ inches 159mm 7¼ inches 184mm
NEMA CLASS	8A 16A 8B 16B 8C 16C 12A 20A 12B 20B 12C 20C	SIDE RAIL THICKNESS	18 ga. 1.0mm 16 ga. 1.5mm 14 ga. 2.0mm 12 ga. 2.5mm 11 ga. 3.0mm
FLANGE SIZES	$^{13}/_{16}$ inches 20.6(or 21)mm 1¼ inches 31.75(or 32)mm 1½ inches 38.1(or 38)mm 1¾ inches 44.45(or 44)mm 2 inches 50mm	LENGTH	8 Feet 2440mm 10 Feet 3000mm 12 Feet 3700mm 16 Feet 4900mm 20 Feet 6000mm 24 Feet 7300mm
WIDTH	36 inches 900mm 30 inches 750mm 24 inches 600mm 18 inches 450mm 12 inches 300mm 9 inches 225mm 8 inches 200mm 6 inches 150mm	FITTING RADIUS	36 inches 900mm 24 inches 600mm 12 inches 300mm

WELDED TYPE-FITTINGS

90° HORIZONTAL ELBOW



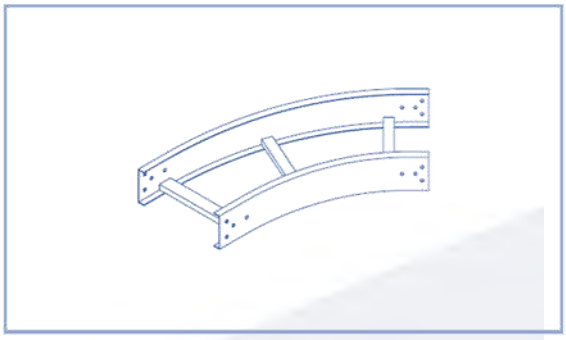


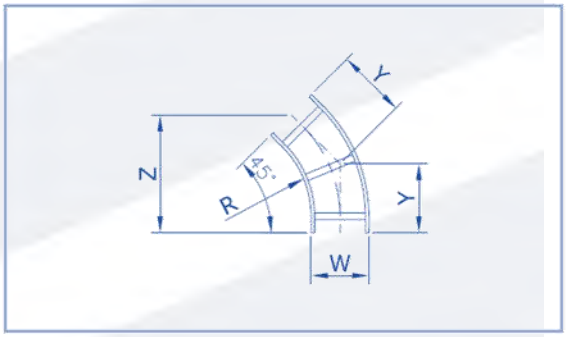
Reference : WHE 12 06 - 90 S 3 - AP

- Horizontal Elbow
- Radius
- Width
- Degree
- Material
- Load Depth
- Type

Radius (R)		Width (W)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
12	305	06	152	481	557
12	305	09	229	519	634
12	305	12	305	557	710
12	305	18	457	633	862
12	305	24	610	710	1015
12	305	30	762	786	1167
12	305	36	914	862	1319
24	610	06	152	786	862
24	610	09	229	824	939
24	610	12	305	862	1015
24	610	18	457	938	1167
24	610	24	610	1015	1320
24	610	30	762	1091	1472
24	610	36	914	1167	1624
36	914	06	152	1090	1166
36	914	09	229	1128	1243
36	914	12	305	1166	1319
36	914	18	457	1242	1471
36	914	24	610	1319	1624
36	914	30	762	1395	1776
36	914	36	914	1471	1928

45° HORIZONTAL ELBOW





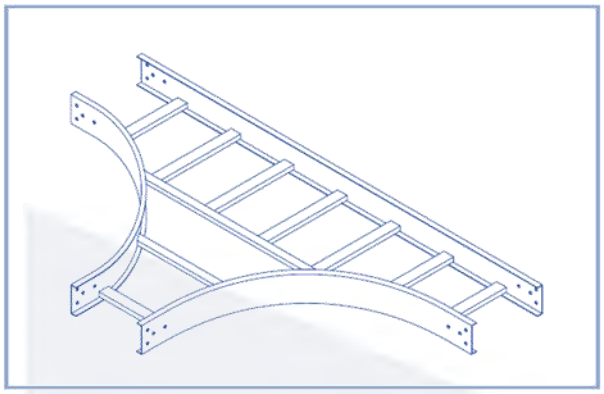
Reference : WHE 12 06 - 45 S 3 - AP

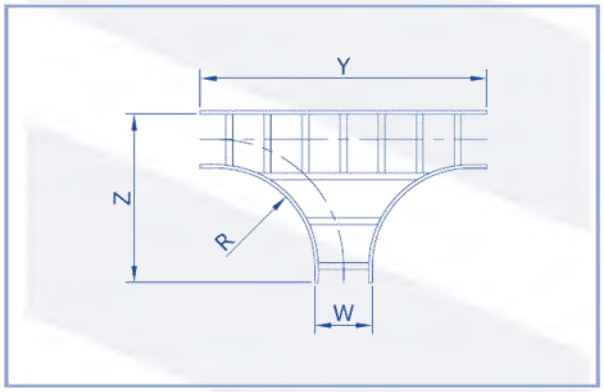
- Horizontal Elbow
- Radius
- Width
- Degree
- Material
- Load Depth
- Type

Radius (R)		Width (W)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
12	305	06	152	258	440
12	305	09	229	274	467
12	305	12	305	290	494
12	305	18	457	321	548
12	305	24	610	353	602
12	305	30	762	384	656
12	305	36	914	416	710
24	610	06	152	384	656
24	610	09	229	400	683
24	610	12	305	416	710
24	610	18	457	447	764
24	610	24	610	479	818
24	610	30	762	510	871
24	610	36	914	542	925
36	914	06	152	510	871
36	914	09	229	526	898
36	914	12	305	542	925
36	914	18	457	573	979
36	914	24	610	605	1033
36	914	30	762	636	1086
36	914	36	914	668	1140

WELDED TYPE-FITTINGS

HORIZONTAL TEE



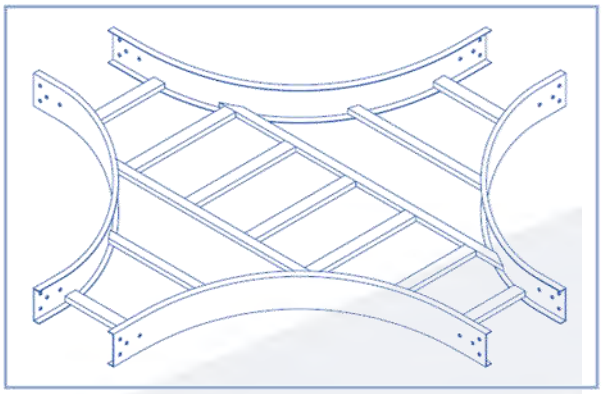


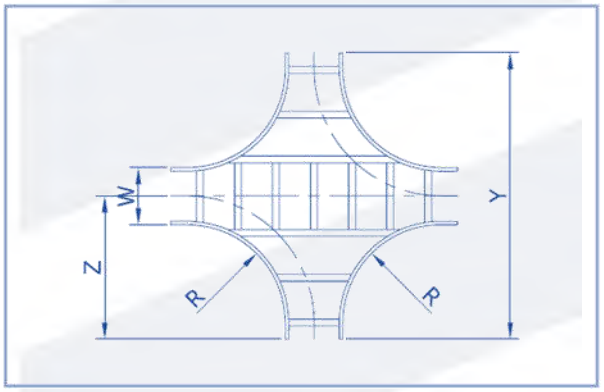
Reference : WHT 12 06 - S 3 - AP

- WHT — Horizontal Tee
- 12 — Radius
- 06 — Width
- S — Material
- 3 — Load Depth
- AP — Type

Radius (R)		Width (W)		Dimension	
inches	mm	inches	mm	'Y' mm	'Z' mm
12	305	06	152	962	557
12	305	09	229	1039	634
12	305	12	305	1115	710
12	305	18	457	1267	862
12	305	24	610	1420	1015
12	305	30	762	1572	1167
12	305	36	914	1724	1319
24	610	06	152	1572	862
24	610	09	229	1649	939
24	610	12	305	1725	1015
24	610	18	457	1877	1167
24	610	24	610	2030	1320
24	610	30	762	2182	1472
24	610	36	914	2334	1624
36	914	06	152	2180	1166
36	914	09	229	2257	1243
36	914	12	305	2333	1319
36	914	18	457	2485	1471
36	914	24	610	2638	1624
36	914	30	762	2790	1776
36	914	36	914	2942	1928

HORIZONTAL CROSS





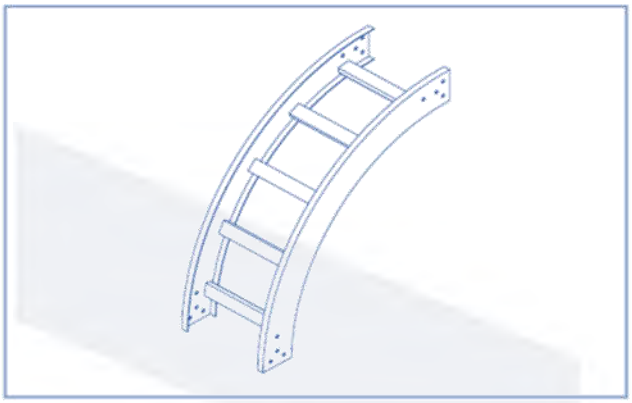
Reference : WHC 12 06 - S 3 - AP

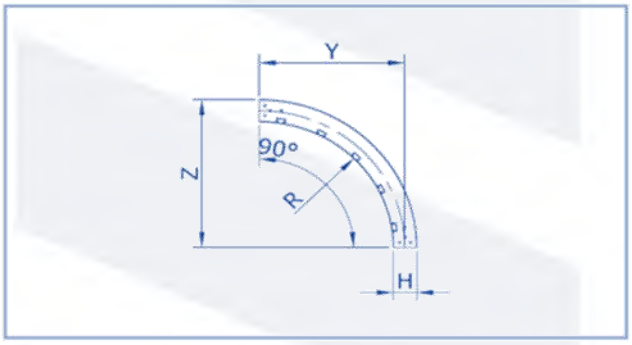
- WHC — Horizontal Cross
- 12 — Radius
- 06 — Width
- S — Material
- 3 — Load Depth
- AP — Type

Radius (R)		Width (W)		Dimension	
inches	mm	inches	mm	'Y' mm	'Z' mm
12	305	06	152	962	481
12	305	09	229	1039	520
12	305	12	305	1115	558
12	305	18	457	1267	634
12	305	24	610	1420	710
12	305	30	762	1572	786
12	305	36	914	1724	862
24	610	06	152	1572	786
24	610	09	229	1649	825
24	610	12	305	1725	863
24	610	18	457	1877	939
24	610	24	610	2030	1015
24	610	30	762	2182	1091
24	610	36	914	2334	1167
36	914	06	152	2180	1090
36	914	09	229	2257	1129
36	914	12	305	2333	1167
36	914	18	457	2485	1243
36	914	24	610	2638	1319
36	914	30	762	2790	1395
36	914	36	914	2942	1471

WELDED TYPE-FITTINGS

90° VERTICAL OUTSIDE ELBOW





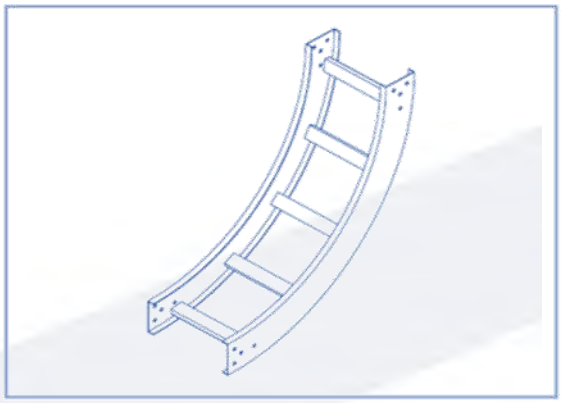
Reference : WVEO 12 06 - 90 S 3 - AP

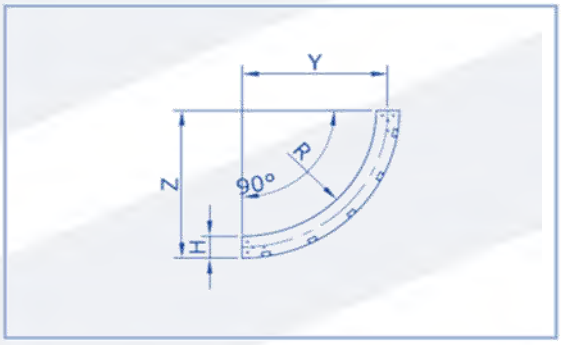
- WVEO — Vertical Out Elbow
- 12 — Radius
- 06 — Width
- 90 — Degree
- S — Material
- 3 — Load Depth
- AP — Type

Height (H)		Radius (R)		Dimension	
inches	mm	inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	413
4-1/4	108	24	610	664	718
4-1/4	108	36	914	968	1022
5-1/4	133	12	305	372	438
5-1/4	133	24	610	677	743
5-1/4	133	36	914	981	1047
6-1/4	159	12	305	385	464
6-1/4	159	24	610	690	769
6-1/4	159	36	914	994	1073
7-1/4	184	12	305	397	489
7-1/4	184	24	610	702	794
7-1/4	184	36	914	1006	1098

Width in inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

90° VERTICAL INSIDE ELBOW





Reference : WVEI 12 06 - 90 S 3 - AP

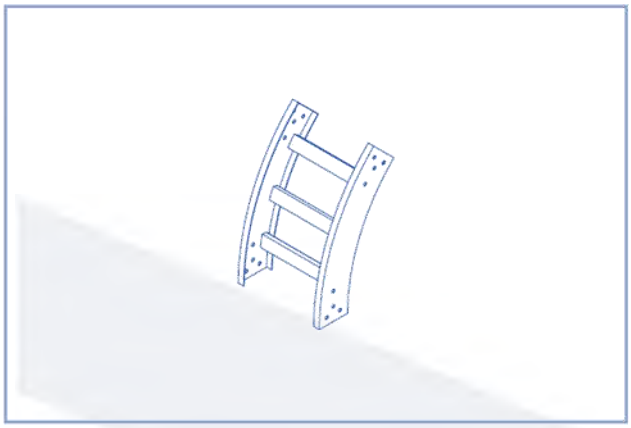
- WVEI — Vertical In Elbow
- 12 — Radius
- 06 — Width
- 90 — Degree
- S — Material
- 3 — Load Depth
- AP — Type

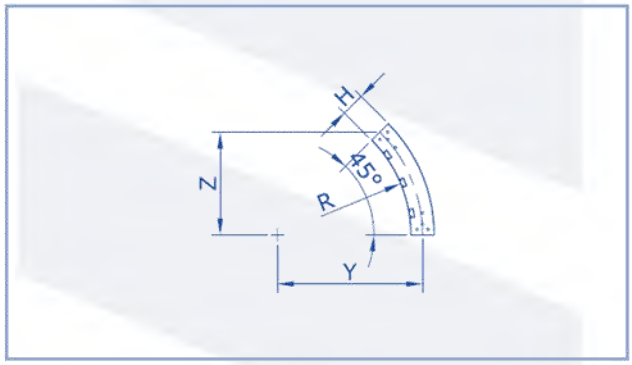
Height (H)		Radius (R)		Dimension	
inches	mm	inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	413
4-1/4	108	24	610	664	718
4-1/4	108	36	914	968	1022
5-1/4	133	12	305	372	438
5-1/4	133	24	610	677	743
5-1/4	133	36	914	981	1047
6-1/4	159	12	305	385	464
6-1/4	159	24	610	690	769
6-1/4	159	36	914	994	1073
7-1/4	184	12	305	397	489
7-1/4	184	24	610	702	794
7-1/4	184	36	914	1006	1098

Width in inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

WELDED TYPE-FITTINGS

45° VERTICAL OUTSIDE ELBOW





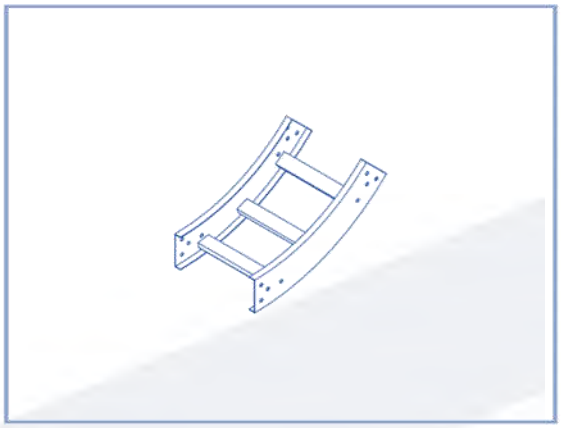
Reference : WVEO 12 06 - 45 S 3 - AP

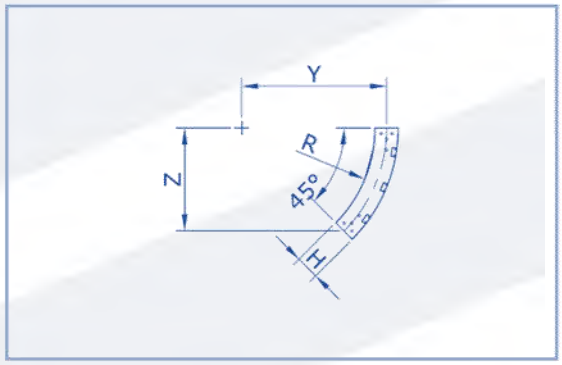
- WVEO — Vertical Out Elbow
- 12 — Radius
- 06 — Width
- 45 — Degree
- S — Material
- 3 — Load Depth
- AP — Type

Height (H)		Radius (R)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	254
4-1/4	108	24	610	664	470
4-1/4	108	36	914	968	684
5-1/4	133	12	305	372	263
5-1/4	133	24	610	677	478
5-1/4	133	36	914	981	693
6-1/4	159	12	305	385	272
6-1/4	159	24	610	690	488
6-1/4	159	36	914	994	703
7-1/4	184	12	305	397	281
7-1/4	184	24	610	702	496
7-1/4	184	36	914	1006	711

Width in inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

45° VERTICAL INSIDE ELBOW





Reference : WVEI 12 06 - 45 S 3 - AP

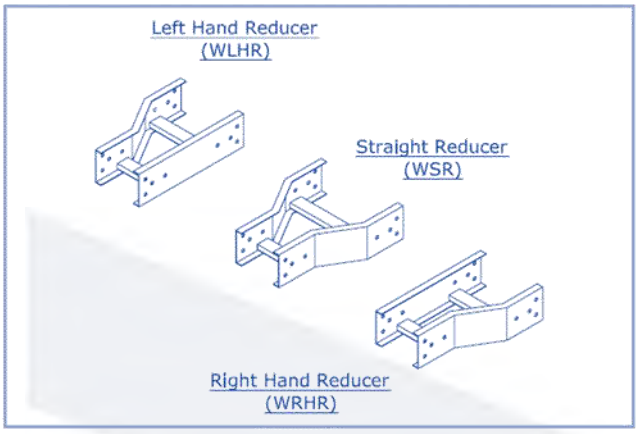
- WVEI — Vertical In Elbow
- 12 — Radius
- 06 — Width
- 45 — Degree
- S — Material
- 3 — Load Depth
- AP — Type

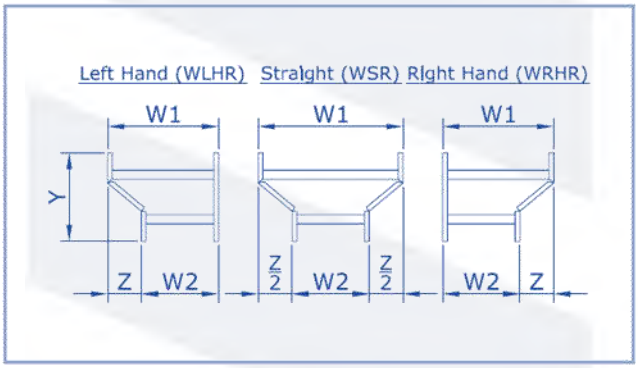
Height (H)		Radius (R)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	254
4-1/4	108	24	610	664	470
4-1/4	108	36	914	968	684
5-1/4	133	12	305	372	263
5-1/4	133	24	610	677	478
5-1/4	133	36	914	981	693
6-1/4	159	12	305	385	272
6-1/4	159	24	610	690	488
6-1/4	159	36	914	994	703
7-1/4	184	12	305	397	281
7-1/4	184	24	610	702	496
7-1/4	184	36	914	1006	711

Width in inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

WELDED TYPE-FITTINGS

REDUCERS



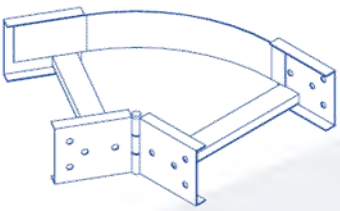


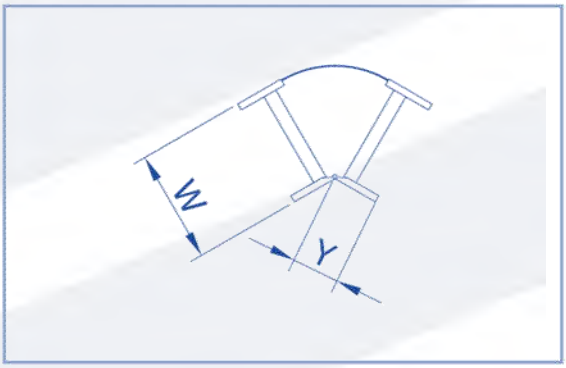
Reference : WRHR 12 06 - S 3 - AP

- WRHR — Right Hand Reducer
- 12 — Width - 1
- 06 — Width - 2
- S — Material
- 3 — Load Depth
- AP — Type

Width (W1)		Width (W2)		Dimension	
inches	mm	inches	mm	'Y' mm	'Z' mm
36	914	30	762	400	152
36	914	24	610	400	304
36	914	18	457	400	457
36	914	12	305	400	609
36	914	09	229	400	685
36	914	06	152	400	762
30	762	24	610	400	152
30	762	18	457	400	305
30	762	12	305	400	457
30	762	09	229	400	533
30	762	06	152	400	610
24	610	18	457	400	153
24	610	12	305	400	305
24	610	09	229	400	381
24	610	06	152	400	458
18	457	12	305	400	152
18	457	09	229	400	228
18	457	06	152	400	305
12	305	09	229	400	76
12	305	06	152	400	153
09	229	06	152	400	77

HORIZONTAL ADJUSTABLE ELBOW





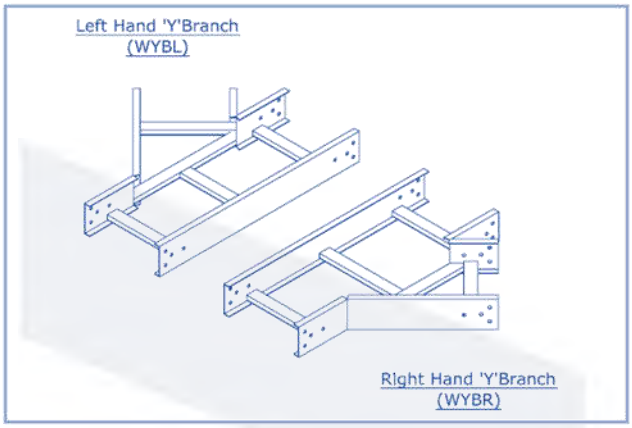
Reference : WAE 12 - S 3 - AP

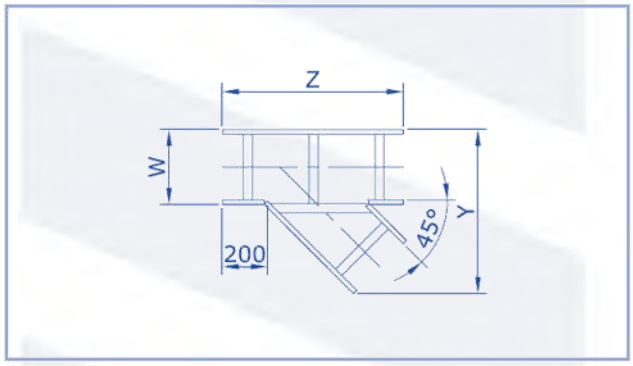
- WAE — Horizontal Adjustable Elbow
- 12 — Width
- S — Material
- 3 — Load Depth
- AP — Type

Width (W)		Dimension (Y)
Inches	mm	mm
06	152	150
09	229	150
12	305	150
18	457	150
24	610	150
30	762	150
36	914	150

WELDED TYPE-FITTINGS

45⁰ 'Y' BRANCH



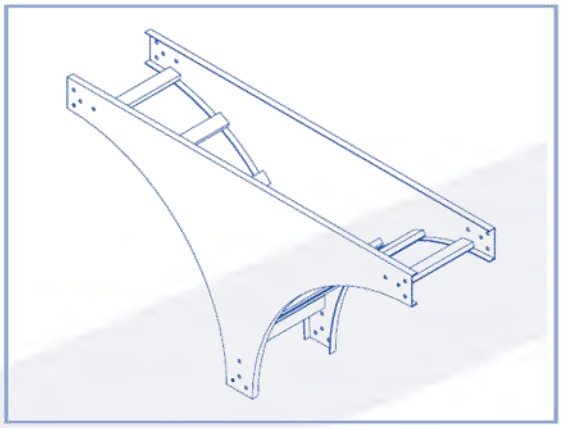


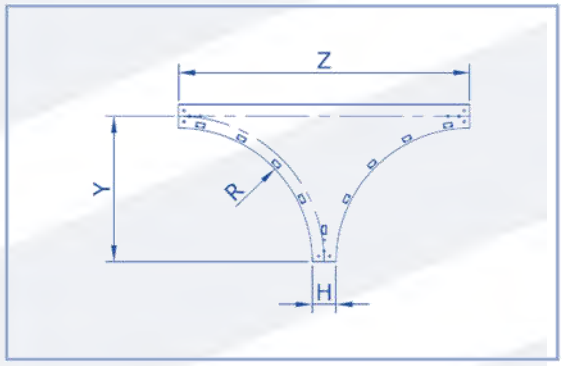
Reference : WYBR 12 - S 3 - AP

- WYBR — Right Hand 'Y' Branch
- 12 — Width
- S — Load Depth
- 3 — Material
- AP — Type

Width (W)		Dimension	
inches	mm	'Y' mm	'Z' mm
06	152	459	615
09	229	591	724
12	305	721	831
18	457	980	1046
24	610	1241	1263
30	762	1501	1478
36	914	1760	1693

VERTICAL TEE





Reference : WVT 12 06 - S 3 - AP

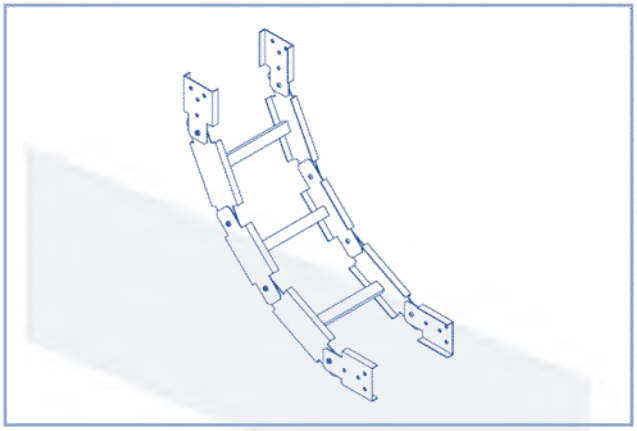
- WVT — Vertical Tee
- 12 — Radius
- 06 — Width
- S — Load Depth
- 3 — Material
- AP — Type

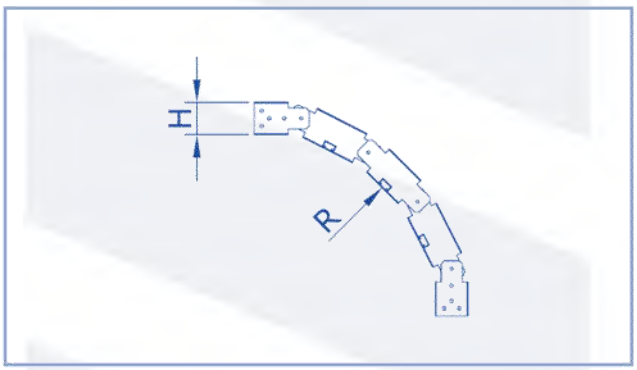
Height (H)		Radius (R)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	718
4-1/4	108	24	610	664	1328
4-1/4	108	36	914	968	1936
5-1/4	133	12	305	372	743
5-1/4	133	24	610	677	1353
5-1/4	133	36	914	981	1961
6-1/4	159	12	305	385	769
6-1/4	159	24	610	690	1379
6-1/4	159	36	914	994	1073
7-1/4	184	12	305	397	794
7-1/4	184	24	610	702	1404
7-1/4	184	36	914	1006	2012

Width in inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

WELDED TYPE-FITTINGS

VERTICAL ADJUSTABLE BEND





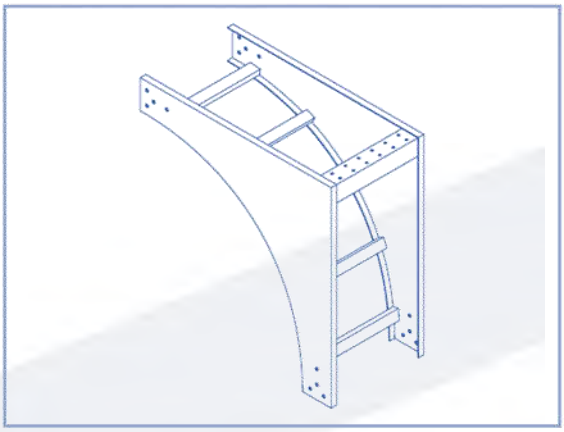
Reference : WAV 12 06 - S 3 - AP

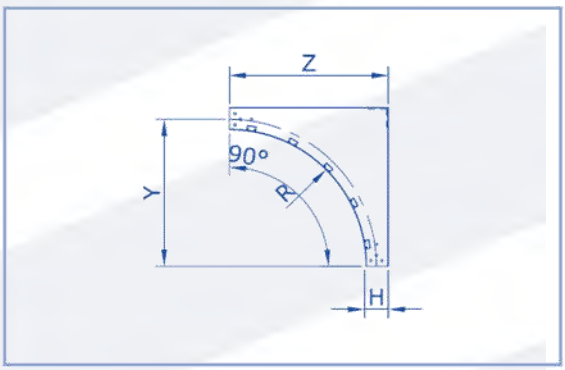
- WAV — Vertical Adj. Elbow
- 12 — Radius
- 06 — Width
- S — Material
- 3 — Load Depth
- AP — Type

Height (H)		Radius (R)	
Inches	mm	Inches	mm
4-1/4	108	12	305
4-1/4	108	24	610
4-1/4	108	36	914
5-1/4	133	12	305
5-1/4	133	24	610
5-1/4	133	36	914
6-1/4	159	12	305
6-1/4	159	24	610
6-1/4	159	36	914
7-1/4	184	12	305
7-1/4	184	24	610
7-1/4	184	36	914

Width in inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

90° VERTICAL CABLE SUPPORT ELBOW





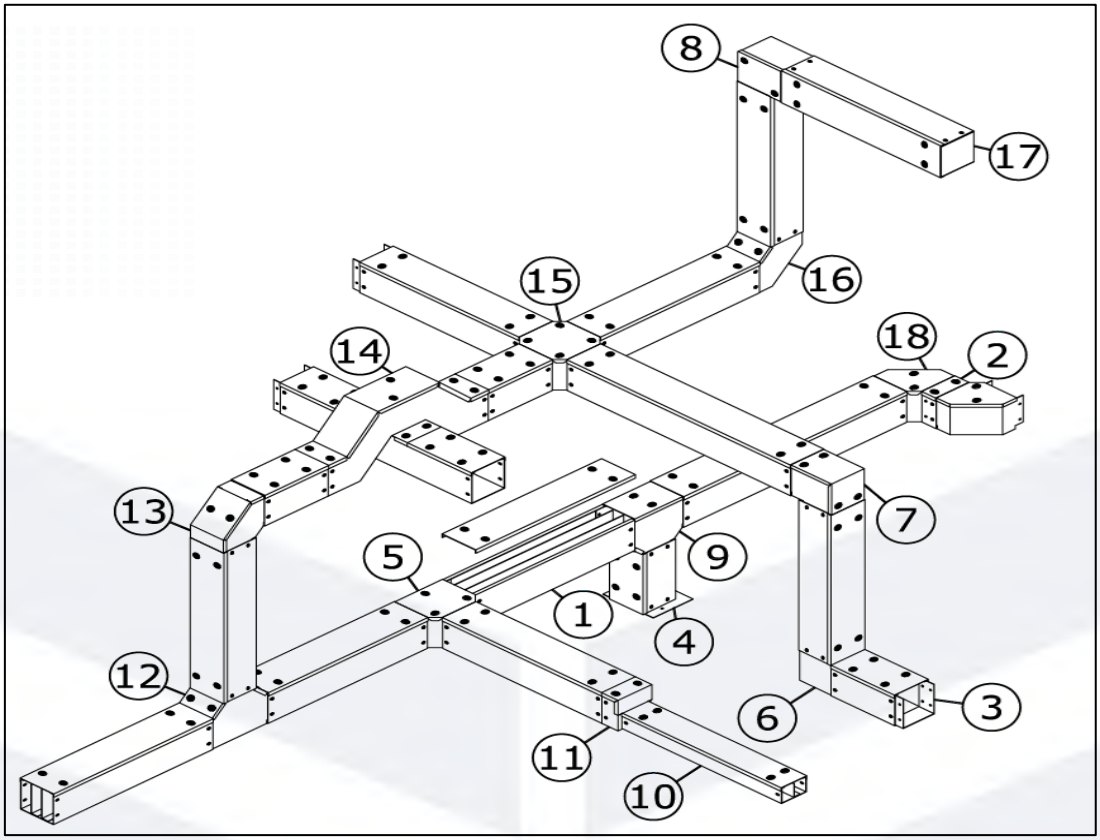
Reference : WVS 12 06 - S 3 - AP

- WVS — Vertical Support
- 12 — Radius
- 06 — Width
- S — Material
- 3 — Load Depth
- AP — Type

Height (H)		Radius (R)		Dimension	
Inches	mm	Inches	mm	'Y' mm	'Z' mm
4-1/4	108	12	305	359	413
4-1/4	108	24	610	664	718
4-1/4	108	36	914	968	1022
5-1/4	133	12	305	372	438
5-1/4	133	24	610	677	743
5-1/4	133	36	914	981	1047
6-1/4	159	12	305	385	464
6-1/4	159	24	610	690	769
6-1/4	159	36	914	994	1073
7-1/4	184	12	305	397	489
7-1/4	184	24	610	702	794
7-1/4	184	36	914	1006	1098

Width in inches :
Use 06 for 6" W, 09 for 9" W, 12 for 12"W, 18 for 18" W, 24 for 24" W, 30 for 30" W, 36 for 36" W

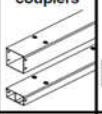
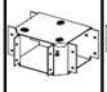
CABLE TRUNKING SYSTEM



01. Trunking Straight / 3 compartments
02. Fitting to fitting adapter
03. Standard Connector
04. Flange (Trunk to Junction Box)
05. Horizontal Tee
06. 90o Vertical Inside Elbow
07. 90o Vertical Outside Elbow
08. 90o Horizontal Elbow
09. Vertical Tee-Down
10. Trunking Straight / 2 compartment
11. Straight Reducer
12. Gusset - Vertical Tee- Up
13. Gusset - 90º Vertical Out
14. Cross Offset
15. Horizontal Cross
16. Gusset - 90º Vertical In
17. Blind End
18. Gusset - 90º Horizontal Elbow

BMC Cable Trunking System offers a complete system of steel Trunking for surface electrical installations as per BS EN 50085.

Today, it is imperative for electrical installations in schools, offices, shops, laboratories, and banks, etc. For which, the main goal is to have a safe cable trunking system. BMC Trunking system offers the widest range of sizes with or without dividers, which permits choosing the most suitable model for any installation. A wide range of accessories and fittings are also available for easy installation and better finishing quality. Surface trunking can be mounted on the wall, suspended from the ceiling, or fixed using brackets.

STANDARD TRUNKING RANGE												
TRUNKING		FITTINGS										
Size (mm)	Lengths, lids and couplers 	Horizontal Elbow 90° Gusset 	Horizontal Elbow 90° Square 	Vertical Inside Elbow 90° Gusset 	Vertical Inside Elbow 90° Square 	Vertical Outside Elbow 90° Gusset 	Vertical Outside Elbow 90° Square 	Horizontal Elbow 45° 	Vertical Inside Elbow 45° 	Vertical Outside Elbow 45° 	Horizontal Tee Gusset 	Horizontal Tee Square 
50 x 50	MG22	MG22HE9G	MG22HE9	MG22VI9G	MG22VI9	MG22VO9G	MG22VO9	MG22HE4	MG22VI4	MG22VO4	MG22HTG	MG22HT
75 x 50	MG32	MG32HE9G	MG32HE9	MG32VI9G	MG32VI9	MG32VO9G	MG32VO9	MG32HE4	MG32VI4	MG32VO4	MG32HTG	MG32HT
75 x 75	MG33	MG33HE9G	MG33HE9	MG33VI9G	MG33VI9	MG33VO9G	MG33VO9	MG33HE4	MG33VI4	MG33VO4	MG33HTG	MG33HT
100 x 50	MG42	MG42HE9G	MG42HE9	MG42VI9G	MG42VI9	MG42VO9G	MG42VO9	MG42HE4	MG42VI4	MG42VO4	MG42HTG	MG42HT
100 x 75	MG43	MG43HE9G	MG43HE9	MG43VI9G	MG43VI9	MG43VO9G	MG43VO9	MG43HE4	MG43VI4	MG43VO4	MG43HTG	MG43HT
100 x 100	MG44	MG44HE9G	MG44HE9	MG44VI9G	MG44VI9	MG44VO9G	MG44VO9	MG44HE4	MG44VI4	MG44VO4	MG44HTG	MG44HT
150 x 50	MG62	MG62HE9G	MG62HE9	MG62VI9G	MG62VI9	MG62VO9G	MG62VO9	MG62HE4	MG62VI4	MG62VO4	MG62HTG	MG62HT
150 x 75	MG63	MG63HE9G	MG63HE9	MG63VI9G	MG63VI9	MG63VO9G	MG63VO9	MG63HE4	MG63VI4	MG63VO4	MG63HTG	MG63HT
150 x 100	MG64	MG64HE9G	MG64HE9	MG64VI9G	MG64VI9	MG64VO9G	MG64VO9	MG64HE4	MG64VI4	MG64VO4	MG64HTG	MG64HT
150 x 150	MG66	MG66HE9G	MG66HE9	MG66VI9G	MG66VI9	MG66VO9G	MG66VO9	MG66HE4	MG66VI4	MG66VO4	MG66HTG	MG66HT
225 x 50	MG92	MG92HE9G	MG92HE9	MG92VI9G	MG92VI9	MG92VO9G	MG92VO9	MG92HE4	MG92VI4	MG92VO4	MG92HTG	MG92HT
225 x 75	MG93	MG93HE9G	MG93HE9	MG93VI9G	MG93VI9	MG93VO9G	MG93VO9	MG93HE4	MG93VI4	MG93VO4	MG93HTG	MG93HT
225 x 100	MG94	MG94HE9G	MG94HE9	MG94VI9G	MG94VI9	MG94VO9G	MG94VO9	MG94HE4	MG94VI4	MG94VO4	MG94HTG	MG94HT
225 x 150	MG96	MG96HE9G	MG96HE9	MG96VI9G	MG96VI9	MG96VO9G	MG96VO9	MG96HE4	MG96VI4	MG96VO4	MG96HTG	MG96HT
225 x 225	MG99	MG99HE9G	MG99HE9	MG99VI9G	MG99VI9	MG99VO9G	MG99VO9	MG99HE4	MG99VI4	MG99VO4	MG99HTG	MG99HT
300 x 50	MG122	MG122HE9G	MG122HE9	MG122VI9G	MG122VI9	MG122VO9G	MG122VO9	MG122HE4	MG122VI4	MG122VO4	MG122HTG	MG122HT
300 x 75	MG123	MG123HE9G	MG123HE9	MG123VI9G	MG123VI9	MG123VO9G	MG123VO9	MG123HE4	MG123VI4	MG123VO4	MG123HTG	MG123HT
300 x 100	MG124	MG124HE9G	MG124HE9	MG124VI9G	MG124VI9	MG124VO9G	MG124VO9	MG124HE4	MG124VI4	MG124VO4	MG124HTG	MG124HT
300 x 150	MG126	MG126HE9G	MG126HE9	MG126VI9G	MG126VI9	MG126VO9G	MG126VO9	MG126HE4	MG126VI4	MG126VO4	MG126HTG	MG126HT
300 x 225	MG129	MG129HE9G	MG129HE9	MG129VI9G	MG129VI9	MG129VO9G	MG129VO9	MG129HE4	MG129VI4	MG129VO4	MG129HTG	MG129HT
300 x 300	MG1212	MG1212HE9G	MG1212HE9	MG1212VI9G	MG1212VI9	MG1212VO9G	MG1212VO9	MG1212HE4	MG1212VI4	MG1212VO4	MG1212HTG	MG1212HT

BAKRIYA METALWORKS

TRUNKING		STANDARD TRUNKING RANGE FITTINGS													
Size (mm)	Lengths, lids and couplers	Vertical Tee-Up Gusset	Vertical Tee-Down Gusset	Offset tees	Horizontal Cross	Offset Cross	Reducers[1]	Bell-mouth	Fitting to Fitting Connector	Flange	Loose Partition	Blank End	Stirrup Hanger	Expansion Connector	Standard Connector
50 x 50	MG22	MG22VTUG	MG22VTDG	MG22OT	MG22HC	MG22OC	-	MG22B	MG22FFC	MG22FL	MG2PART	MG22BE	MG22SH	MG22EC	MG22SC
75 x 50	MG32	MG32VTUG	MG32VTDG	MG32OT	MG32HC	MG32OC	MG32 Z RD	MG32B	MG32FFC	MG32FL	MG2PART	MG32BE	MG32SH	MG32EC	MG32SC
75 x 75	MG33	MG33VTUG	MG33VTDG	MG33OT	MG33HC	MG33OC	MG33 Z RD	MG33B	MG33FFC	MG33FL	MG3PART	MG33BE	MG33SH	MG33EC	MG33SC
100 x 50	MG42	MG42VTUG	MG42VTDG	MG42OT	MG42HC	MG42OC	MG42 Z RD	MG42B	MG42FFC	MG42FL	MG2PART	MG42BE	MG42SH	MG42EC	MG42SC
100 x 75	MG43	MG43VTUG	MG43VTDG	MG43OT	MG43HC	MG43OC	MG43 Z RD	MG43B	MG43FFC	MG43FL	MG3PART	MG43BE	MG43SH	MG43EC	MG43SC
100 x 100	MG44	MG44VTUG	MG44VTDG	MG44OT	MG44HC	MG44OC	MG44 Z RD	MG44B	MG44FFC	MG44FL	MG4PART	MG44BE	MG44SH	MG44EC	MG44SC
150 x 50	MG62	MG62VTUG	MG62VTDG	MG62OT	MG62HC	MG62OC	MG62 Z RD	MG62B	MG62FFC	MG62FL	MG2PART	MG62BE	MG62SH	MG62EC	MG62SC
150 x 75	MG63	MG63VTUG	MG63VTDG	MG63OT	MG63HC	MG63OC	MG63 Z RD	MG63B	MG63FFC	MG63FL	MG3PART	MG63BE	MG63SH	MG63EC	MG63SC
150 x 100	MG64	MG64VTUG	MG64VTDG	MG64OT	MG64HC	MG64OC	MG64 Z RD	MG64B	MG64FFC	MG64FL	MG4PART	MG64BE	MG64SH	MG64EC	MG64SC
150 x 150	MG66	MG66VTUG	MG66VTDG	MG66OT	MG66HC	MG66OC	MG66 Z RD	MG66B	MG66FFC	MG66FL	MG6PART	MG66BE	MG66SH	MG66EC	MG66SC
225 x 50	MG92	MG92VTUG	MG92VTDG	MG92OT	MG92HC	MG92OC	MG92 Z RD	MG92B	MG92FFC	MG92FL	MG2PART	MG92BE	MG92SH	MG92EC	MG92SC
225 x 75	MG93	MG93VTUG	MG93VTDG	MG93OT	MG93HC	MG93OC	MG93 Z RD	MG93B	MG93FFC	MG93FL	MG3PART	MG93BE	MG93SH	MG93EC	MG93SC
225 x 100	MG94	MG94VTUG	MG94VTDG	MG.94OT	MG94HC	MG.94OC	MG94 Z RD	MG94B	MG94FFC	MG94FL	MG4PART	MG94BE	MG94SH	MG94EC	MG94SC
225 x 150	MG96	MG96VTUG	MG96VTDG	MG96OT	MG96HC	MG96OC	MG96 Z RD	MG96B	MG96FFC	MG96FL	MG6PART	MG96BE	MG96SH	MG96EC	MG96SC
225 x 225	MG99	MG99VTUG	MG99VTDG	MG99OT	MG99HC	MG99OC	MG99 Z RD	MG99B	MG99FFC	MG99FL	MG9PART	MG99BE	MG99SH	MG99EC	MG99SC
300 x 50	MG122	MG122VTUG	MG122VTDG	MG122OT	MG122HC	MG122OC	MG122 Z RD	MG122B	MG122FFC	MG122FL	MG2PART	MG122BE	MG122SH	MG122EC	MG122SC
300 x 75	MG123	MG123VTUG	MG123VTDG	MG123OT	MG123HC	MG123OC	MG123 Z RD	MG123B	MG123FFC	MG123FL	MG3PART	MG123BE	MG123SH	MG123EC	MG123SC
300 x 100	MG124	MG124VTUG	MG124VTDG	MG124OT	MG124HC	MG124OC	MG124 Z RD	MG124B	MG124FFC	MG124FL	MG4PART	MG124BE	MG124SH	MG124EC	MG124SC
300 x 150	MG126	MG126VTUG	MG126VTDG	MG126OT	MG126HC	MG126OC	MG126 Z RD	MG126B	MG126FFC	MG126FL	MG6PART	MG126BE	MG126SH	MG126EC	MG126SC
300 x 225	MG129	MG129VTUG	MG129VTDG	MG129OT	MG129HC	MG129OC	MG129 Z RD	MG129B	MG129FFC	MG129FL	MG9PART	MG129BE	MG129SH	MG129EC	MG129SC
300 x 300	MG1212	MG1212VTUG	MG1212VTDG	MG1212OT	MG1212HC	MG1212OC	MG1212 Z RD	MG1212B	MG1212FFC	MG1212FL	MG12PART	MG1212BE	MG1212SH	MG1212EC	MG1212SC

CABLE SUPPORT SYSTEM

U - CHANNEL

Channel and brackets are manufactured to BS 6946 — specifications for metal channel cable support systems for electrical installations and calculations for loading are in accordance with BS 5950: Part 5 1998 structural use of steelwork in buildings, code of practice for cold-formed thin gauge sections.

Cat. Nos.	Single channels
	41x21x2.5mm Plain HDG
US101-1000-S	1Mtr
US101-2000-S	2Mtr
US101-3000-S	3Mtr
US101-6000-S	6Mtr

US101	Unit	X - X Axis	Y - Y Axis
Moment of Inertia	mm^4	11900	53400
Section Modulus	mm^3	970	2590
Maximum Bending Moment	Kg-f-M	15.4	41

Length Span (mm)	Uniform Load @175N/mm² (Kgs)	Deflection @175N/mm² (mm)	Uniform Load @Max. Defl. 1/200 Span (Kgs.)	Uniform Load @Max. Defl. 1/360 Span (Kgs.)	Max. Load of Column loaded @Plate Side(kgs)	Max. Load of Column loaded @Flange Side(kgs)
250	553	0.45	-	-	3993	1042
500	276	1.81	-	212	3379	995
750	184	4.07	169	94	2198	859
1000	138	7.24	95	53	1353	690
1250	110	11.32	61	33	896	548
1500	92	16.30	42	23	634	437
1750	79	22.19	31	-	471	353
2000	69	28.99	23	-	-	-

	41x21x2.5mm Slotted HDG
USS101-1000-S	1Mtr
USS101-2000-S	2Mtr
USS101-3000-S	3Mtr
USS101-6000-S	6Mtr

USS101	Unit	X - X Axis	Y - Y Axis
Moment of Inertia	mm^4	9800	52900
Section Modulus	mm^3	890	2560
Maximum Bending Moment	Kg-f-M	15.4	41

Length Span (mm)	Uniform Load @175N/mm² (Kgs)	Deflection @175N/mm² (mm)	Uniform Load @Max. Defl. 1/200 Span (Kgs.)	Uniform Load @Max. Defl. 1/360 Span (Kgs.)	Max. Load of Column loaded @Plate Side(kgs)	Max. Load of Column loaded @Flange Side(kgs)
250	508	0.50	-	-	-	-
500	254	2.01	-	174	-	-
750	169	4.54	139	77	-	-
1000	127	8.07	78	43	-	-
1250	101	12.61	50	27	-	-
1500	84	18.17	34	-	-	-
1750	72	24.73	25	-	-	-
2000	63	32.30	-	-	-	-

	41x41x2.5mm Plain HDG
US102-1000-S	1Mtr
US102-2000-S	2Mtr
US102-3000-S	3Mtr
US102-6000-S	6Mtr

US102	Unit	X - X Axis	Y - Y Axis
Moment of Inertia	mm^4	72100	92300
Section Modulus	mm^3	3100	4470
Maximum Bending Moment	Kg-f-M	49.2	70.5

Length Span (mm)	Uniform Load @175N/mm² (Kgs)	Deflection @175N/mm² (mm)	Uniform Load @Max. Defl. 1/200 Span (Kgs.)	Uniform Load @Max. Defl. 1/360 Span (Kgs.)	Max. Load of Column loaded @Plate Side(kgs)	Max. Load of Column loaded @Flange Side(kgs)
250	1769	0.23	-	-	5869	1693
500	884	0.95	-	-	5379	1650
750	589	2.15	-	571	4479	1554
1000	442	3.82	-	321	3373	1395
1250	353	5.97	-	205	2556	1232
1500	294	8.60	257	142	2020	1093
1750	252	11.70	188	104	1656	976
2000	221	15.29	144	80	1395	879
2250	196	19.35	114	63	1198	797
2500	176	23.89	92	51	1044	725
2750	160	28.91	76	42	919	663
3000	147	34.40	64	35	816	607

U - CHANNEL

Cat. Nos.	41x41x2.5mm Slotted HDG
USS102-1000-S	1Mtr
USS102-2000-S	2Mtr
USS102-3000-S	3Mtr
USS102-6000-S	6Mtr

Other lengths, gauges and finishes available on request.

USS102	Unit	X - X Axis	Y - Y Axis
Moment of Inertia	mm^4	61000	91700
Section Modulus	mm^3	2870	4440
Maximum Bending Moment	Kg-f-M	49.2	70.5

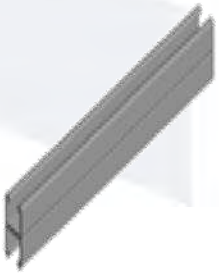
Length Span (mm)	Uniform Load @175N/mm² (Kgs)	Deflection @175N/mm² (mm)	Uniform Load @Max. Defl. 1/200 Span (Kgs.)	Uniform Load @Max. Defl. 1/360 Span (Kgs.)	Max. Load of Column loaded @Plate Side(kgs)	Max. Load of Column loaded @Flange Side(kgs)
250	1638	0.27	-	-	5351	1660
500	819	1.05	-	-	5100	1635
750	546	2.35	-	483	4412	1557
1000	409	4.18	-	271	3284	1389
1250	327	6.54	313	174	2436	1211
1500	273	2.41	217	120	1899	1062
1750	234	12.81	159	88	1546	941
2000	204	16.73	122	67	1297	843
2250	182	21.18	96	53	1113	761
2500	163	26.15	78	43	970	691
2750	148	31.64	64	35	855	631
3000	136	37.65	54	30	761	578

Cat. Nos.	Double channels - back to back
USD105-1000-S	41x21x2.5mm B2B Plain HDG, 1Mtr
USD105-2000-S	2Mtr
USD105-3000-S	3Mtr
USD105-6000-S	6Mtr

USD105	Unit	X - X Axis	Y - Y Axis
Moment of Inertia	mm^4	56400	106800
Section Modulus	mm^3	2730	5180
Maximum Bending Moment	Kg-f-M	43.4	82.1

Length Span (mm)	Uniform Load @175N/mm² (Kgs)	Deflection @175N/mm² (mm)	Uniform Load @Max. Defl. 1/200 Span (Kgs.)	Uniform Load @Max. Defl. 1/360 Span (Kgs.)	Max. Load of Column loaded @Plate Side(kgs)	Max. Load of Column loaded @Flange Side(kgs)
250	1558	0.26	-	-	8228	1834
500	779	1.07	-	-	7740	1809
750	519	2.42	-	446	6865	1756
1000	389	4.30	-	251	5367	1639
1250	311	6.72	289	160	3882	1468
1500	259	9.68	201	111	2838	1289
1750	222	13.18	147	82	2143	1123
2000	194	17.21	113	62	1668	977
2250	173	21.79	89	49	1334	852
2500	155	26.90	72	40	1090	745
2750	141	32.55	59	33	906	655
3000	129	38.73	50	27	-	-

	41x41x2.5mm B2B Plain HDG
USD106-1000-S	1Mtr
USD106-2000-S	2Mtr
USD106-3000-S	3Mtr
USD106-6000-S	6Mtr



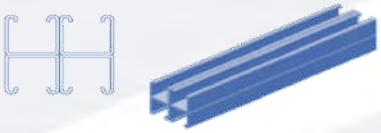
U - CHANNEL

USD111

USD112

USD113

USD114



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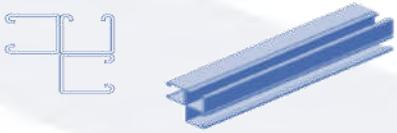

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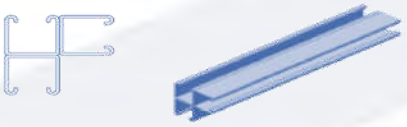

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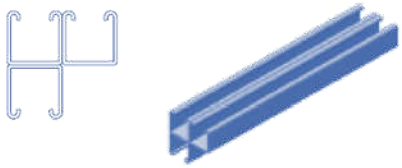

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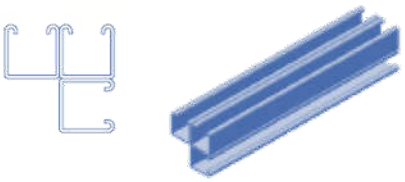
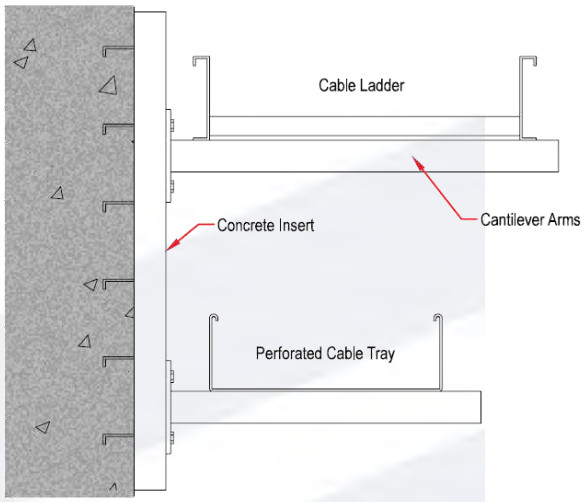


CONCRETE INSERT

BMC Concrete inserts are manufactured of standard channel type US101 and US102 with polystyrene infill to keep a clean enclosure while pouring concrete. The standard length is 3 meters. But other lengths are available upon request.

Material: Steel Sheet to ASTM A-36

Finishing: Hot Dip Galvanized after fabrication.



According to BS EN ISO U61: 1999

LOAD DATA:

The following data are based on average concrete strength of 33N/mm2

1. Type: 24CC - H

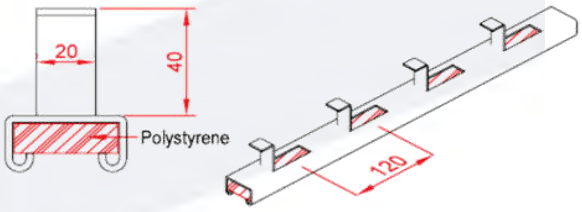
Safe Load for 1 mtr. length 2160 Kg

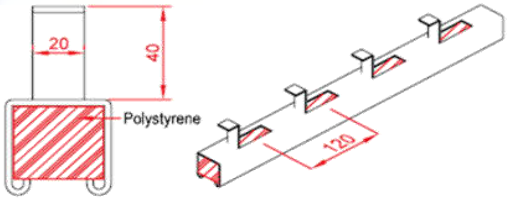
2. Type: 24CC - M

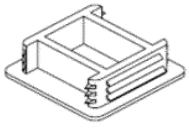
Safe Load for 1 mtr. length 2160 Kg

The Safety Factor is 2.

Cat. Nos.	Concrete Insert channels
	41x21x2.5mm Concrete insert
24CC-H-1000-S	1Mtr
24CC-H-2000-S	2Mtr
24CC-H-3000-S	3Mtr
	41x41x2.5mm Concrete insert
24CC-M-1000-S	1Mtr
24CC-M-2000-S	2Mtr
24CC-M-3000-S	3Mtr
	Endcap
24EC-H	41x41 Endcap
24EC-M	41x21 Endcap

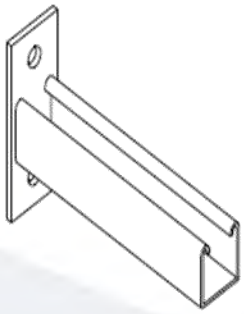




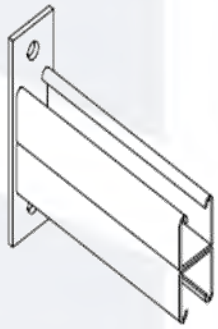


CANTILEVER ARMS

Cat. Nos.	Cantilever arms
	Single Cantilever arms
CS201-100	100mm Long
CS201-150	150mm Long
CS201-200	200mm Long
CS201-250	250mm Long
CS201-300	300mm Long
CS201-350	350mm Long
CS201-400	400mm Long
CS201-450	450mm Long
CS201-500	500mm Long
CS201-550	550mm Long
CS201-600	600mm Long
CS201-650	650mm Long
CS201-700	700mm Long
CS201-750	750mm Long
	Double Cantilever arms Back to Back
CS202-150	150mm Long
CS202-200	200mm Long
CS202-250	250mm Long
CS202-300	300mm Long
CS202-350	350mm Long
CS202-400	400mm Long
CS202-450	450mm Long
CS202-500	500mm Long
CS202-550	550mm Long
CS202-600	600mm Long
CS202-650	650mm Long
CS202-700	700mm Long
CS202-750	750mm Long
CS202-800	800mm Long
CS202-850	850mm Long
CS202-900	900mm Long



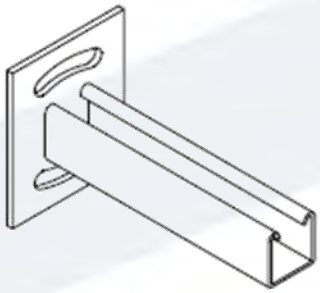
Code & Size	Length (mm)	Weight (kg/pc)	U Load (kgf)
CS 201 -150	150	0.63	722
CS 201 -200	200	0.77	593
CS 201 -250	250	0.9	485
CS 201 -300	300	1.03	378
CS 201 -350	350	1.17	325
CS 201 -400	400	1.3	286
CS 201 -450	450	1.43	236
CS 201 -500	500	1.57	224
CS 201 -550	550	1.7	204
CS 201 -600	600	1.83	184
CS 201 -650	650	1.96	170
CS 201 -700	700	2.1	158
CS 201 -750	750	2.23	145



Code & Size	Length (mm)	Weight (kg/pc)	U Load (kgf)
CS 202 -150	150	1.11	1408
CS 202 -200	200	1.38	1158
CS 202 -250	250	1.64	908
CS 202 -300	300	1.91	658
CS 202 -350	350	2.18	555
CS 202 -400	400	2.44	489
CS 202 -450	450	2.71	423
CS 202 -500	500	2.97	383
CS 202 -550	550	3.24	349
CS 202 -600	600	3.51	315
CS 202 -650	650	3.77	292
CS 202 -700	700	4.04	272
CS 202 -750	750	4.3	252
CS 202 -800	800	4.57	237
CS 202 -850	850	4.83	224
CS 202 -900	900	5.1	212

CANTILEVER ARMS

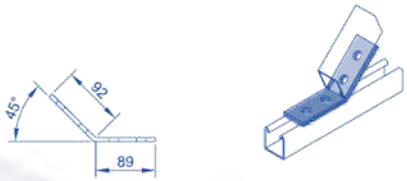
Cat. Nos.	Cantilever arms
	Inverted Cantilever arms
	Adjustable
CS203-150	150mm Long
CS203-200	200mm Long
CS203-250	250mm Long
CS203-300	300mm Long
CS203-350	350mm Long
CS203-400	400mm Long
CS203-450	450mm Long
CS203-500	500mm Long
CS203-550	550mm Long
CS203-600	600mm Long



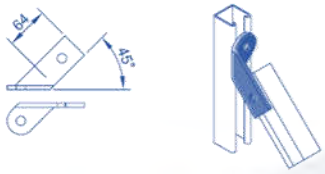
Code & Size	Length (mm)	Weight (kg/pc)	U Load (kgf)
CS 203 -150	150	0.87	480
CS 203 -200	200	1.0	441
CS 203 -250	250	1.14	402
CS 203 -300	300	1.27	363
CS 203 -350	350	1.4	325
CS 203 -400	400	1.53	286
CS 203 -450	450	1.67	247
CS 203 -500	500	1.8	224
CS 203 -550	550	1.93	204
CS 203 -600	600	2.07	184

FIXING BRACKETS

FS - 101

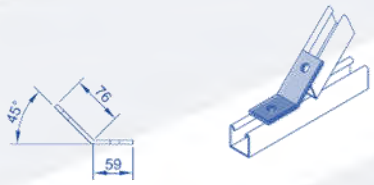


FS - 102



FS - 103

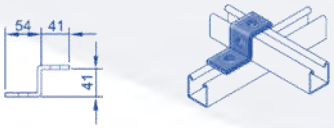
FS - 104



FS - 105

FS - 106

FS - 107



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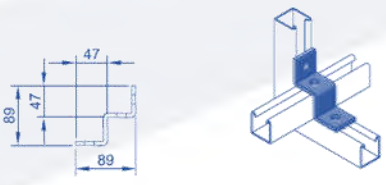

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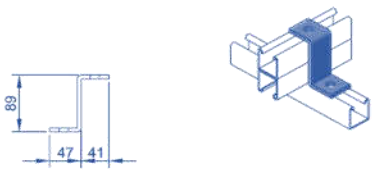
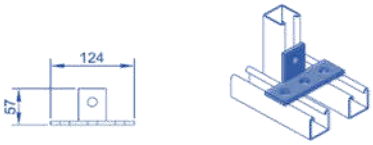


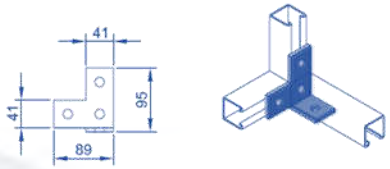
FS - 110



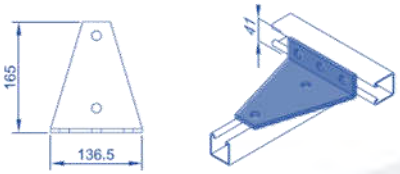
(Unless otherwise specified) 14mm Hole Size for M12 Hexagonal Bolt 6mm Thick Plate
21mm from End to Center of Hole 4.75mm from Center to Center 4.0mm width Plate

FIXING BRACKETS

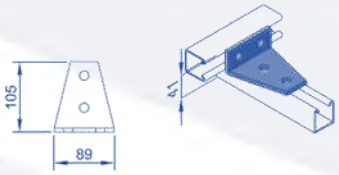
FS - 111



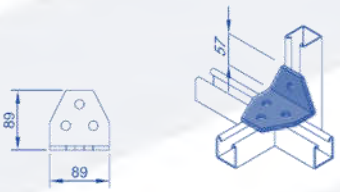
FS - 112



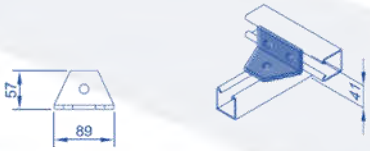
FS - 113



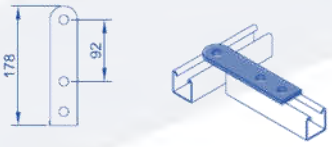
FS - 114



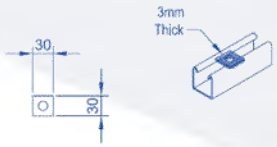
FS - 115



FS - 116

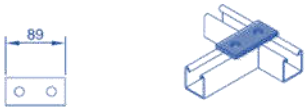


FS - 117

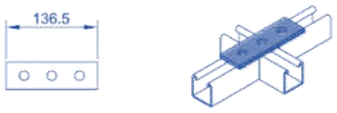


FS - 118

FS - 119



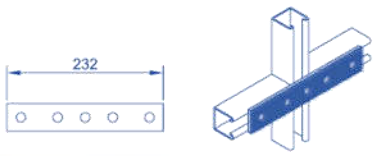
FS - 120



[Unless otherwise specified] 14mm Hole Size for M12 Hexagonal Bolt 6mm Thick Plate
21mm from End to Center of Hole 4.75mm from Center to Center 4.0mm width Plate

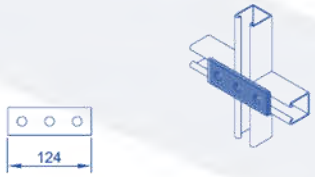
FIXING BRACKETS

FS - 121



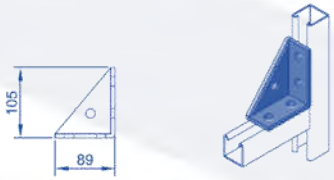
FS - 122

FS - 123



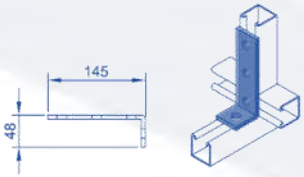
FS - 124

FS - 125

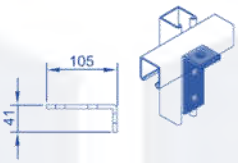


FS - 126

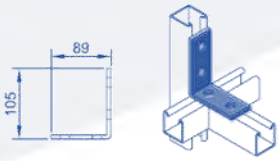
FS - 127



FS - 128



FS - 129



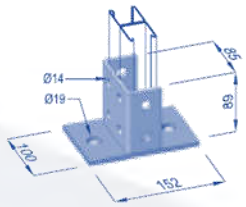
FS - 130

FS - 131

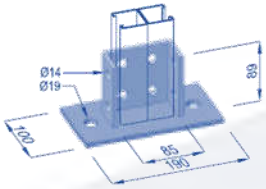
(Unless otherwise specified) 14mm Hole Size for M12 Hexagonal Bolt 6mm Thick Plate
21mm from End to Center of Hole 4.75mm from Center to Center 4.0mm width Plate

BASE PLATES

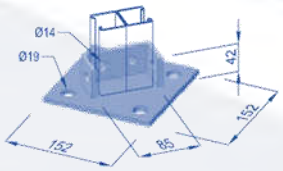
SPB - 152



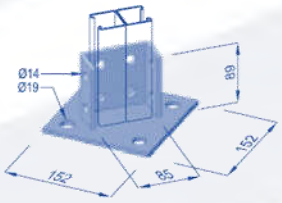
SPB - 190



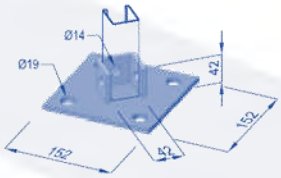
SPB - 084



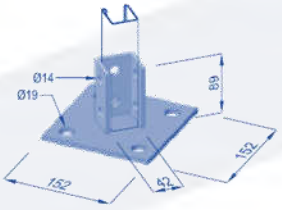
SPB - 088



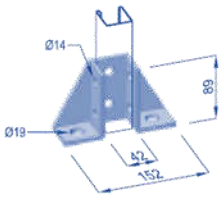
SPB - 044



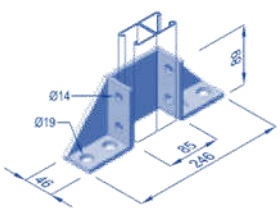
SPB - 048



SPB - 144



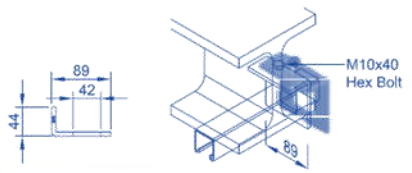
SPB - 188



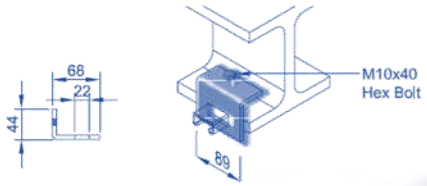
(Unless otherwise specified) 14mm Hole Size for M12 Hexagonal Bolt 6mm Thick Plate
21mm from End to Center of Hole 4.75mm from Center to Center 4.0mm width Plate

I-BEAM HANGING CLAMPS

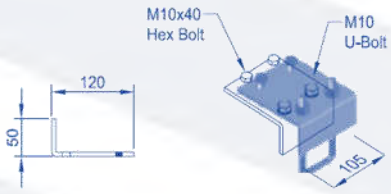
EB - 301A



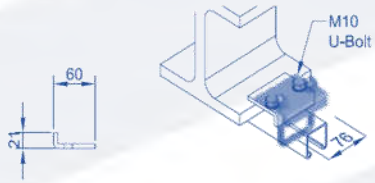
EB - 301B



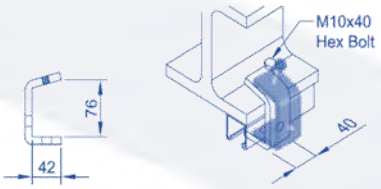
EB - 302



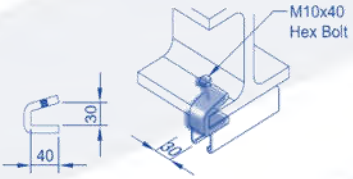
EB - 303



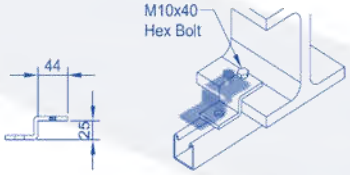
EB - 304



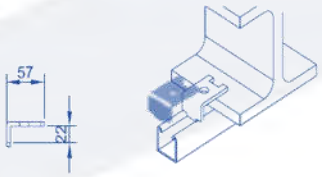
EB - 305



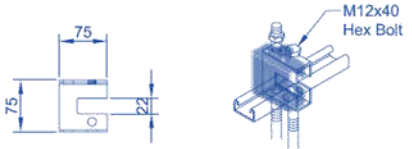
EB - 306



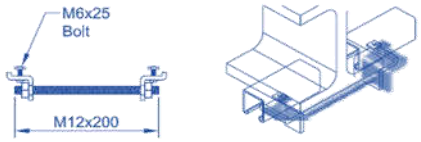
EB - 307



EB - 308



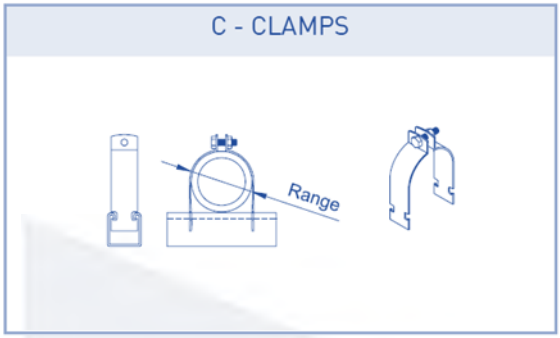
EB - 309



[Unless otherwise specified] 14mm Hole Size for M12 Hexagonal Bolt 6mm Thick Plate
21mm from End to Center of Hole 4.75mm from Center to Center 4.0mm width Plate

CLAMPS & HANGERS

C - CLAMPS



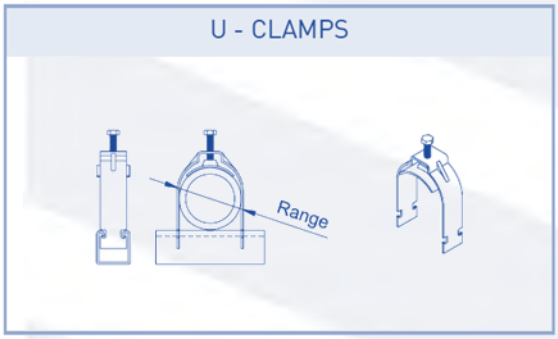
Reference : EH201 - 10

C - Clamp

Size Code

Size Code	Range (mm)
01	8 - 10
02	10 - 12
03	12 - 14
04	14 - 16
05	16 - 18
06	18 - 22
07	22 - 26
08	26 - 30
09	30 - 35
11	35 - 40
12	40 - 46
13	46 - 51
14	51 - 56
15	56 - 62
16	62 - 68
17	68 - 74
18	74 - 82
19	82 - 90

U - CLAMPS



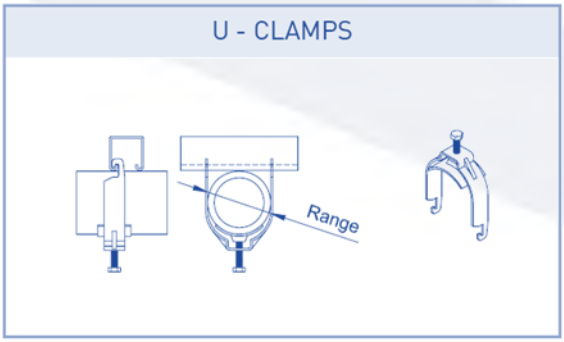
Reference : EH202A - 10

U - Clamp

Size Code

Size Code	Range (mm)
01	8 - 10
02	12 - 16
03	16 - 22
04	22 - 28
05	28 - 34
06	34 - 40
07	40 - 46
08	46 - 52
09	52 - 58
10	58 - 64
11	64 - 70
12	70 - 76
13	76 - 82
14	82 - 90
15	90 - 100

U - CLAMPS



Reference : EH202B - 10

U - Clamp

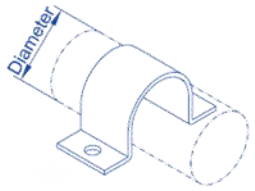
Size Code

Size Code	Range (mm)
01	8 - 12
02	12 - 16
03	16 - 22
04	22 - 28
05	28 - 34
06	34 - 40
07	40 - 46
08	46 - 52
09	52 - 58
10	58 - 64
11	64 - 70
12	70 - 76
13	76 - 82
14	82 - 90
15	90 - 100

CABLE CLEATS

P - CLAMP

Material:
Galvanized Steel
HDGAF Steel
Aluminum
Stainless Steel



Reference : EH203 - 10

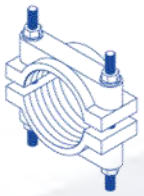
P - Clamp — Size Code

Size Code	Diameter (mm)	Size Code	Diameter (mm)
01	21.3	11	168.3
02	26.9	12	174.6
03	33.7	13	187.3
04	42.4	14	200
05	48.3	15	228.6
06	60.3		
07	76.1		
08	88.9		
09	114.3		
10	134.7		

SINGLE CABLE CLEAT

Material:

Die Cast Aluminum



Reference : EH204 - 10

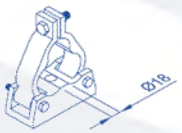
Single Cable Cleat — Size Code

Size Code	Range (mm)	Size Code	Range (mm)
01	37.1 - 38.1	11	95 - 101
02	38.1 - 44.4	12	101 - 108
03	44.4 - 50.8	13	108 - 113
04	50.8 - 57.1	14	113 - 120
05	57.7 - 63.5	15	120 - 130
06	63.5 - 69.8		
07	69.8 - 76.2		
08	76 - 83		
09	83 - 89		
10	89 - 95		

TREFOIL CLEAT SINGLE BOLT

Material:

Die Cast Aluminum



Special Sizes Available on Request

Reference : EH205 - 10

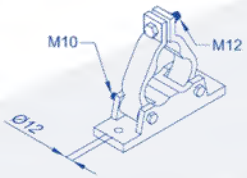
MultiCable Cleat - Single — Size Code

Size Code	Range (mm)	Size Code	Range (mm)
01	30 - 32	11	65 - 68
02	32 - 34	12	68 - 72
03	34 - 36	13	72 - 75
04	36 - 38	14	75 - 78
05	41 - 43	15	78 - 82
06	43 - 44	16	82 - 85
07	46 - 48	17	85 - 88
08	49 - 54	18	88 - 92
09	55 - 60	19	92 - 95
10	60 - 66	20	95 - 98

TREFOIL CLEAT DOUBLE BOLT

Material:

Die Cast Aluminum



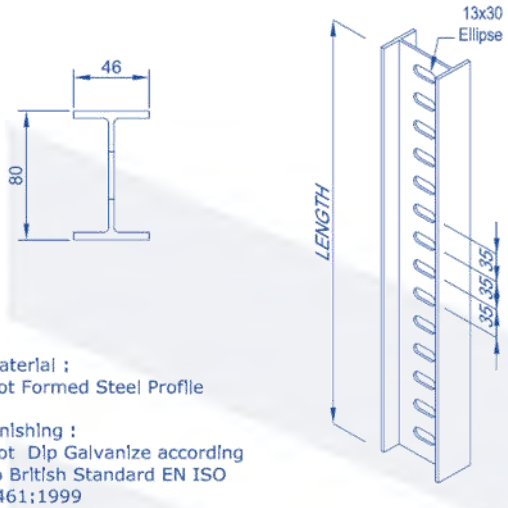
Reference : EH206 - 10

MultiCable Cleat - Double — Size Code

Size Code	Range (mm)	Size Code	Range (mm)
01	30 - 32	11	65 - 68
02	32 - 34	12	68 - 72
03	34 - 36	13	72 - 75
04	36 - 38	14	75 - 78
05	41 - 43	15	78 - 82
06	43 - 44	16	82 - 85
07	46 - 48	17	85 - 88
08	49 - 54	18	88 - 92
09	55 - 60	19	92 - 95
10	60 - 66	20	95 - 98

I - SUPPORT AND HEAD PLATES

I - SUPPORT



Material :
Hot Formed Steel Profile

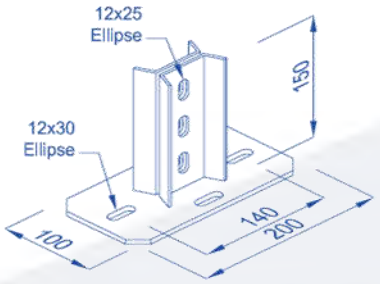
Finishing :
Hot Dip Galvanize according to British Standard EN ISO 1461:1999

Reference : 25 A1 - 600

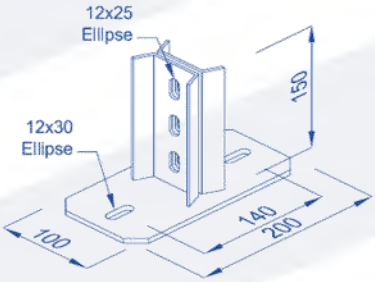
80x46mm I - Support

Length In MM

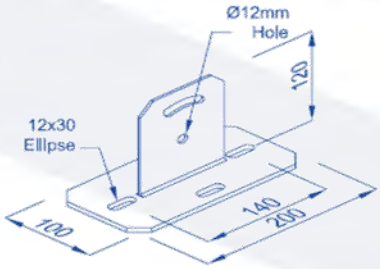
25 A5 - A



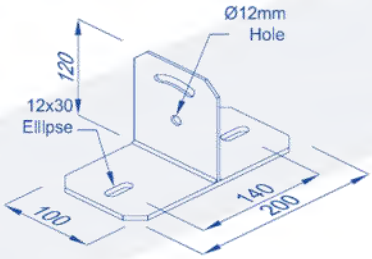
25 A5 - AQ



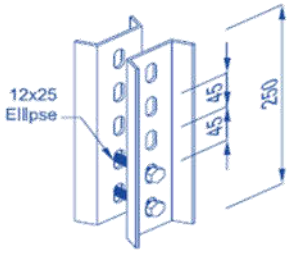
25 A5 - B



25 A5 - BQ

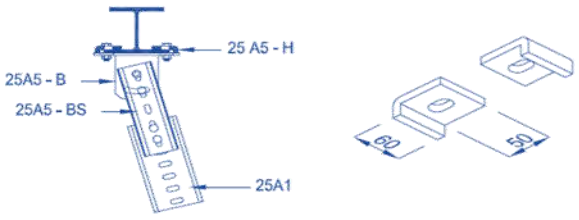


25 A5 - BS



Including M10x50 HexBolt, Nut & Washer - 2 sets

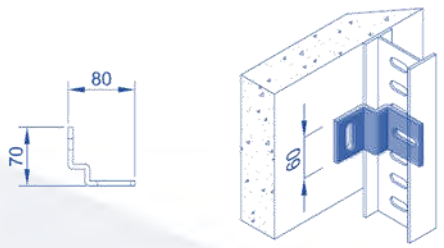
25 A5 - H



Including M12x50 HexBolt, Nut & Washer - 2 sets

JOINING MATERIALS

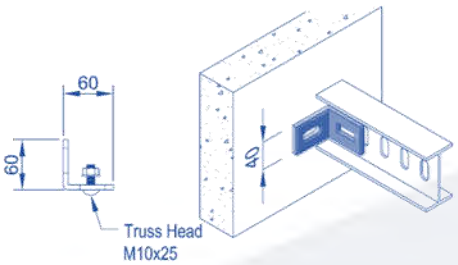
ANCHOR BLOCK



Reference : 25J3 - C

Anchor Block

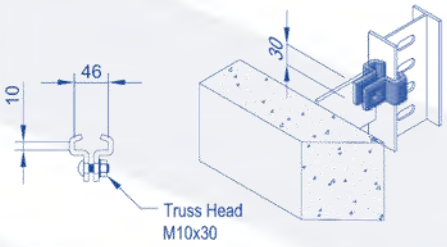
CORNER ANCHOR



Reference : 25J3 - D

Corner Anchor

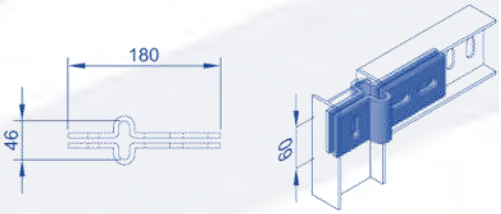
SUPPORT CLAW



Reference : 25J3 - E

Support Claw

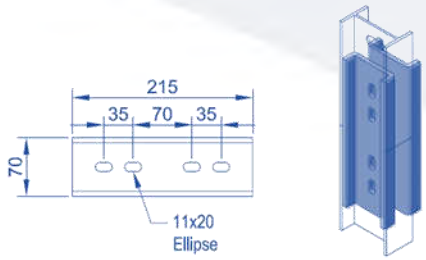
SUPPORT CLAMP



Reference : 25J3 - F

Support Clamp

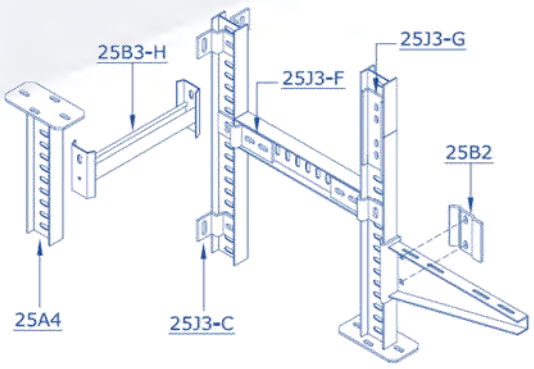
JOINTING PIECE



Reference : 25J3 - G

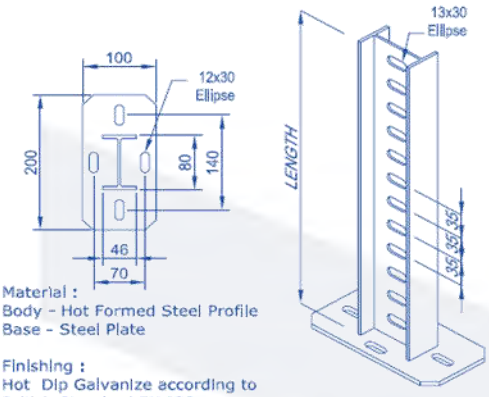
Jointing Piece

APPLICATION



HANGING I - SUPPORT AND BRACKETS

HANGING I - SUPPORT



Material :
Body - Hot Formed Steel Profile
Base - Steel Plate

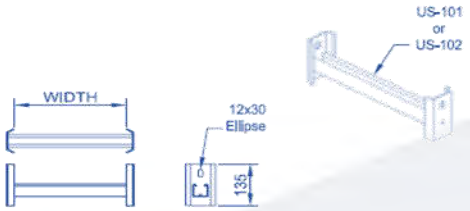
Finishing :
Hot Dip Galvanize according to British Standard EN ISO 1461:1999

Reference : 25 A4 - 600

Hanging Support

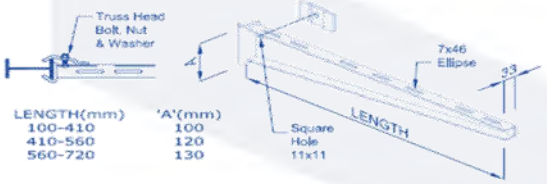
Length In MM

25 B3 - H - WIDTH



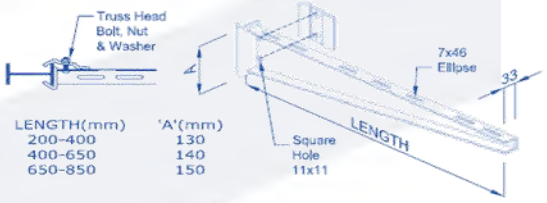
25 B3 - V - WIDTH

I - SUPPORT (HEAVY DUTY) 25 B1 - LENGTH



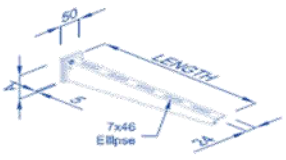
LENGTH(mm)	'A'(mm)
100-410	100
410-560	120
560-720	130

I - SUPPORT (HEAVY DUTY) 25 B2 - LENGTH



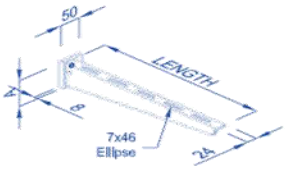
LENGTH(mm)	'A'(mm)
200-400	130
400-650	140
650-850	150

WALL BRACKET (HEAVY DUTY) 25 B3 - LENGTH



LENGTH(mm)	'A'(mm)
110-410	70
410-560	80
560-720	100

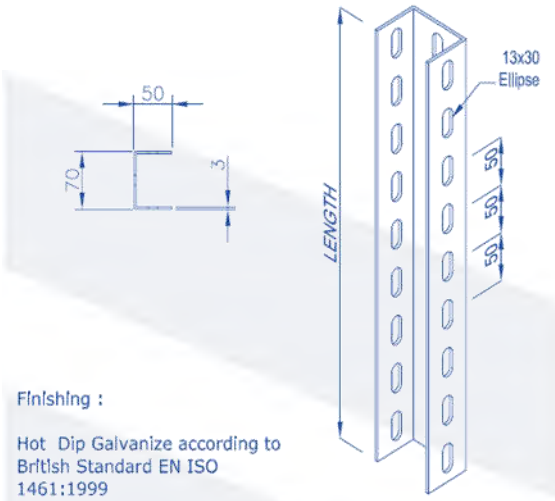
WALL BRACKET (HEAVY DUTY) 25 B4 - LENGTH



LENGTH(mm)	'A'(mm)
200-400	80
400-700	160
700-810	210

U - SUPPORT AND ACCESSORIES

U - SUPPORT



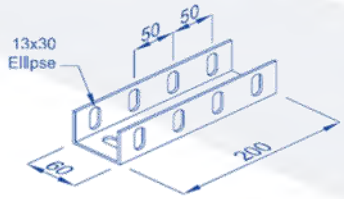
Finishing :

Hot Dip Galvanize according to British Standard EN ISO 1461:1999

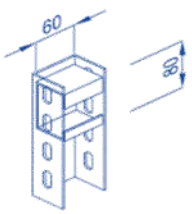
Reference : 25 A3 - 600

- 25 A3 - U - Support
- 600 - Length In MM

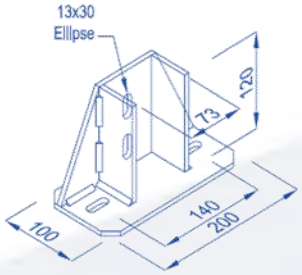
25 A3 - J JOINTING PIECE



25 A3 - K SEPARATOR



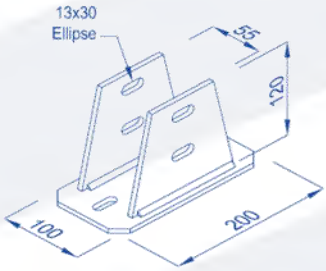
HEAD PLATE STRAIGHT



Reference : 25 A3 - ST

- 25 A3 - Head Plate
- ST - Head Plate

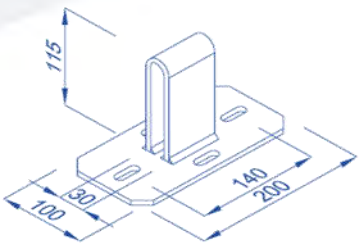
HEAD PLATE INVERTED



Reference : 25 A3 - IT

- 25 A3 - Head Plate
- IT - Head Plate

HEAD PLATE INCLINED



Reference : 25 A3 - DT

- 25 A3 - Head Plate
- DT - Head Plate

HARDWARES

HW 01
HEXAGONAL BOLT

HW 01
ROOFING BOLT

HW 01
HEXAGONAL POINTED BOLT

HW 01
THREADER ROD

HW 05
HEXAGONAL NUT

HW 06
THREADED ROD COUPLING

HW 07
WASHER

HW07 - PLAIN

HW07A - LOCK

HW 05
ANCHOR BOLT

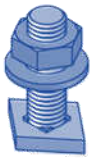
HW 09
SHORT SPRING NUT

HW 10
REGULAR SPRING NUT

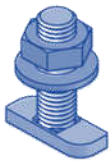
HW 11
DRIVE IN ANCHOR

HW 12
TRUSS HEAD BOLT

HW 13
HAMMER HEAD BOLT



HW 14
HAMMER HEAD BOLT



HW 15
HAMMER HEAD BOLT

Reference :
HW01-M10x35-SS316

Hex Bolt
Bolt Size

Material : G.I, HDG, SS316, SS304

On order Specify Type, Size, and/or Length and Material of the requested Item.

CONTACT POINT

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Address : PO Box 1642,
1st Industrial Area, Phase 5,
Jeddah-22429 (KSA)