Cm

Cable Support System

Technical Brief

Cable Management Systems

Cable management system provides support for the insulated electric cables that are used widely for power distribution and communication. They are an alternative to open wiring and commonly used for cable management in commercial and industrial construction projects. This support system is especially useful in situations where changes to a wiring system are anticipated because the cables can be installed by laying them in trays, trunkings or cable ladders.

Hot Rolled (HR) Steel

HR steel is typically less expensive and produced in thicker gauges of 2.0mm and upwards. HR and CR steel are most likely to corrode and therefore, the least expensive of the three metals most commonly used for perforation. Most grades can be protected against corrosion by post-galvanising (dipping in hot zinc) or various painting treatments.

Cold Rolled (CR) Steel

CR steel provides tighter tolerance and better surface finishing. While it can be produced in practically any gauge, it is most readily available in thinner gauges ranging from 0.4mm - 3.0mm. This material can also be post-galvanised, painted or epoxy powder coated after the perforation process to provide protection against corrosion.

Aluminium

Aluminium 1100 alloy is an aluminium-based alloy in the "commercially pure" wrought family (1000 or 1xxx series). With a minimum composition of 99.0% aluminium, it is the most heavily alloyed of the 1000 series. It is also mechanically the strongest alloy in the series and the only 1000-series alloy commonly used in rivets. Despite its strength, it maintains the benefits of being relatively lightly alloyed (compared to other series), therefore it has attributes like high electrical conductivity, corrosion resistance, and workability.

304 Stainless Steel

Grade 304 stainless steel has a high resistance to rust, withstands corrosion from most oxidising acids and is often used for kitchen and food applications. However, it is susceptible to corrosion from chloride solutions (notably saline environments with high amount of sodium chloride). Chloride ions can create localised areas of corrosion, called "pitting" which can spread beneath protective chromium barriers to compromise internal structures. Solutions with as little as 25ppm of sodium chloride can begin to have a corrosive effect. 304 stainless steel is the most common form of stainless steel used around the world. It contains between 16 and 24 percent chromium and up to 35 percent nickel - as well as small amount of carbon and manganese.

316 Stainless Steel

Grade 316 stainless steel is the second-most common form of stainless steel. It has almost the same physical and mechanical properties as 304 stainless steel and contains similar material make-up. The difference is that 316 stainless steel incorporates about 2 to 3 percent molybdenum, which increases corrosion resistance particularly against chlorides and other industrial solvents. Alternative 300-series grades can contain up to 7 percent molybdenum. 316 stainless steel is commonly used in many industrial applications involving processing chemicals, as well as high-saline environments such as coastal regions and outdoor areas where de-icing salts are common.

Pre-Galvanised

(mill galvanised, hot dip mill galvanised or continuous hot dip galvanised) Pre-galvanised steel is produced by continuously rolling rolls of sheet steel in molten zinc at the mills. This is also known as mill galvanised or hot dip mill galvanized. These coils are then slit to size and fabricated by methods of roll forming, shearing, punching or forming to produce our pre-galvanised strut products. This coating is generally very thin, therefore during fabrication, any cut edges will be left exposed and any welds will damage the initial coating.

Electrogalvanised

Electrogalvanised zinc (also known as zinc-plated or electroplated) is the process by which a coat of zinc is deposited on the steel by electrolysis from a bath of zinc salts. When exposed to air and moisture, zinc forms a tough, adherent, protective film consisting of a mixture of zinc oxides, hydroxides, and carbonates. This film forms a barrier coating that slows subsequent corrosive attack on the zinc. This coating is usually recommended for indoor use in relatively dry areas, as it provides ninety-six hours protection in salt spray testing as per ASTM B117.

Hot Dip Galvanised After Fabrication

Hot Dip galvanised strut products are fabricated from steel and then completely immersed in a bath of molten zinc. The metallic bond results in a zinc coating that completely coats all surfaces, including all edges and welds. The metallurgically-bonded zinc-alloy layers not only create a barrier between the steel and the environment, but also cathodically protect the steel. This cathodic protection offered by zinc means the galvanised coating sacrifices itself to protect the underlying base steel from corrosion. Hot dip galvanising after fabrication is highly recommended for prolonged outdoor exposure as this method of corrosion protection lasts more than 20 years in most atmospheric and industrial environments.

Epoxy Powder Coating

Powder coating is a type of coating that is applied as a free-flowing, dry powder. The main difference between conventional liquid paint and powder coating is that the powder coating does not require a solvent to keep the binder and filler parts in a liquid suspension form. The coating is typically applied electrostatically and then cured under heat to allow it to flow and form a "skin". It is usually used to create a hard finish that is tougher than conventional paint.

Projects

2 MALAN ROAD (MOE)

7-11 OUTLETS (SINGAPORE)

21 CAVAN ROAD

70 SHENTON WAY

59 JALAN PEMIMPIN

FUSIONOPOLIS

CANBERRA CONDO SEMBAWANG

LOR CHUAN NEW TECH PARK

PAYA LEBAR QUARTER 1

1 INTERNATIONAL PARK THE SYNERGY

BLK 30 GHIM MOH CHILDCARE (HDB)

222 SUMANG LANE MULTI STOREY CAR PARK (HDB)

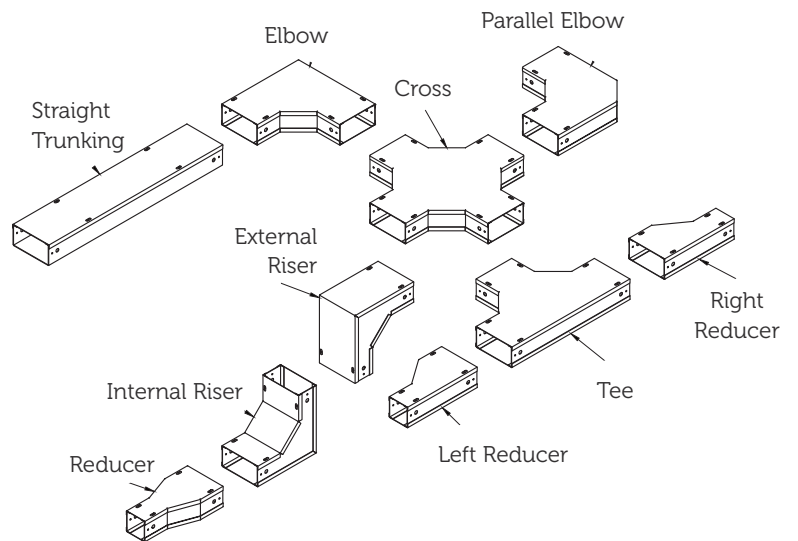326 SUMANG WALK MULTI STOREY CAR PARK (HDB)

164 GUL CIRCLE (JTC)

PARC ESTA CONDOMINIUM
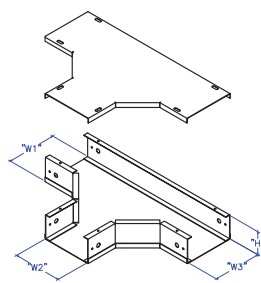
SKY EVERTON CONDOMINIUM

DEFU INDUSTRIAL CITY (JTC)

PUBLIC TRANSPORT SECURITY COMMAND (MHA)

Cable Trunking System

Cable Trunking Fittings

1. Flatwise Tee
2. Flatwise Cross
3. Flatwise 90 Deg Elbow
4. 90 Deg Parallel Elbow
5. Reducer
6. Right Side Reducer
7. Internal Riser
8. External Riser
9. Left Side Reducer
10. Multi-Compartment Cable Trunking
11. Inner Bracket on Trunking Base
12. End Plate for Cable Trunking
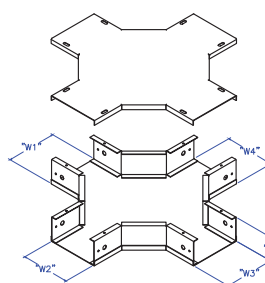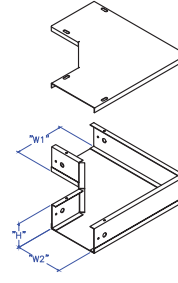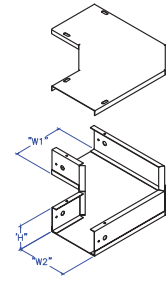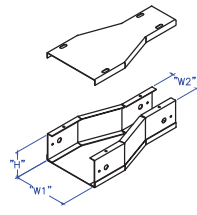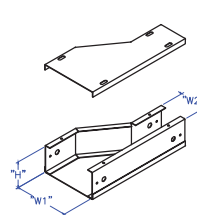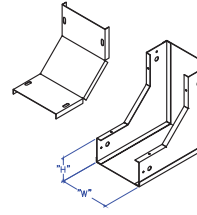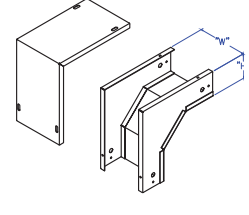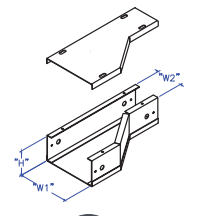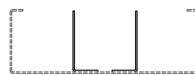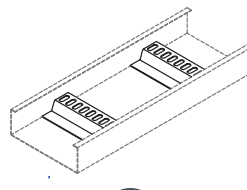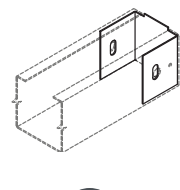
SINGAPORE STANDARD
Cable Trunking

Trunking Cover

Trunking Body

Joint

OB 5X13

OB 8X30

7X15

80

Ø3

Ø8

Ø3

15
10

Standard Length 2440

"H" (INT)
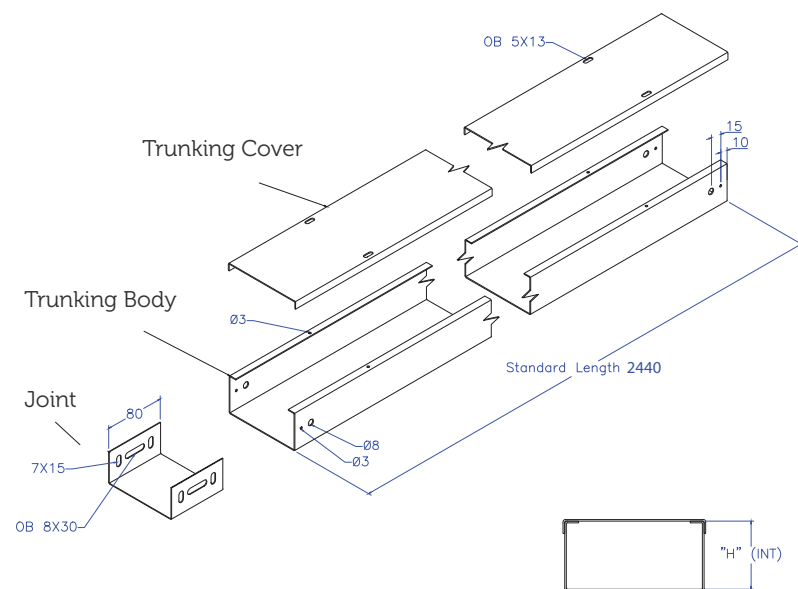
(All Dimensions in mm)

CCM Product Code System

SS249   6   3   (#)

Singapore Standard

Width in inch

Height in inch

Colour(#): Orange(ORG), Red(RED),
Grey(GRY), White (WHI), Ivory Beige (IB)

Manufacture: SS249 Class 1 to TUV SUD PSB Singapore

Material: Electro-galvanized

Finish: Epoxy powder coated to a minimum of 50 micron

Standard Colour: White(WHI), Orange(ORG), Grey(GRY), Red(RED) and Ivory Beige(IB)

Standard Length: 2440 MM

Complete With: Joint, Tapping Screw, Bolt & Nuts, Copper link

Singapore Standard Size, Body and Cover Thickness

Product Code	Normal Size W X H (mm)	Steel Thickness (mm) Body	Cover	Approx Weight Kgs Per Length
SS249 021	50 X 25	1.0	1.0	3.7
SS249 022	50 X 50	1.0	1.0	4.9
SS249 032	75 X 50	1.2	1.2	7.0
SS249 042	100 X 50	1.2	1.2	8.3
SS249 043	100 X 75	1.2	1.2	9.4
SS249 044	100 X 100	1.4	1.2	11.3
SS249 052	125 X 50	1.4	1.2	9.9
SS249 062	150 X 50	1.4	1.2	11.1
SS249 063	150 X 75	1.4	1.2	12.5
SS249 064	150 X 100	1.4	1.2	13.8
SS249 066	150 X 150	1.4	1.2	16.5
SS249 072	175 X 50	1.4	1.2	12.4
SS249 082	200 X 50	1.6	1.4	15.7
SS249 083	200 X 75	1.6	1.4	17.2
SS249 084	200 X 100	1.6	1.4	18.8
SS249 086	200 X 150	1.6	1.4	218
SS249 092	225 X 50	1.6	1.4	17.1
SS249 102	250 X 50	1.6	1.4	18.6
SS249 112	275 X 50	1.6	1.4	20.0
SS249 122	300 X 50	1.6	1.6	22.8
SS249 123	300 X 75	1.6	1.6	24.3
SS249 124	300 X 100	1.6	1.6	26.2
SS249 126	300 X 150	1.6	1.6	29.1
SS249 142	350 X 50	1.6	1.6	25.9
SS249 153	375 X 75	1.6	1.6	28.9

Please consult our sales representatives for other sizes, lengths and colours.

CABLE TRUNKING FOR
Indoor Use

Trunking Cover

Trunking Body

Joint

OB 5X13

OB 6X14

OB 7X15

Standard Length 2440

25

80

Ø3

"H" (EXT)

"W" (EXT)
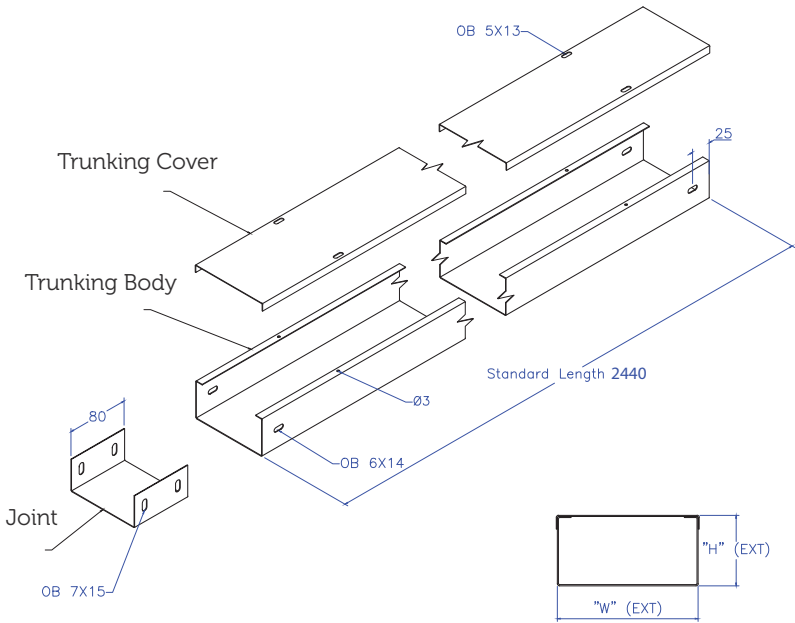
CCM Product Code System

MT-022-06-1-RED

Metal Trunking

Dimension (inch)

0.6,0.8,1.0,1.2 & etcs
Thickness(mm)

Finishes & Material:
1. Cold rolled steel
2. Hot dip galvanised steel
3. Stainless steel
4. Galvanised iron
5. Aluminum

Colour:
WHI - White
ORG - Orange
RED - Red
IB - Ivory Beige
GRY - Grey

Example:
Order a red cable trunking
size of 50x50mm, thickness
0.6m in cold rolled
steel material.
Product no.
MT-022-06-1-RED

Manufacture: MS 1EC 61084, BS EN 50085

Standard Length: 2440mm

Complete With: Joint, Tapping Screw,
Bolt & Nuts, Copper link

Recommended Materials And Types Of Finishing

Materials
Cold Rolled Steel JIS G3141 SPCC
Galvanized Iron JIS G3302 SGCC

Types of Finishing
Epoxy Powder Coated to ASTM B117
Original Finish

Product Code	Normal Size W X H (mm)	Steel Thickness (mm)
MT-021-**	50 X 25	0.6, 0.8, 1.0, 1.2, 1.4, 1.5, 1.6
MT-022-**	50 X 50	0.6, 0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-032-**	75 X 50	0.6, 0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-033-**	75 X 75	0.6, 0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-042-**	100 X 50	0.6, 0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-043-**	100 X 75	0.6, 0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-044-**	100 X 100	0.6, 0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-062-**	150 X 50	0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-063-**	150 X 75	0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-064-**	150 X 100	0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-082-**	200 X 50	0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-083-**	200 X 75	0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-084-**	200 X 100	0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-086-**	200 X 150	0.8, 1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-102-**	250 X 50	1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-104-**	250 X 100	1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-106-**	250 X 150	1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-122-**	300 X 50	1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-124-**	300 X 100	1.0, 1.2, 1.4, 1.5, 1.6, 2.0
MT-126-**	300 X 150	1.0, 1.2, 1.4, 1.5, 1.6, 2.0

Please consult our sales
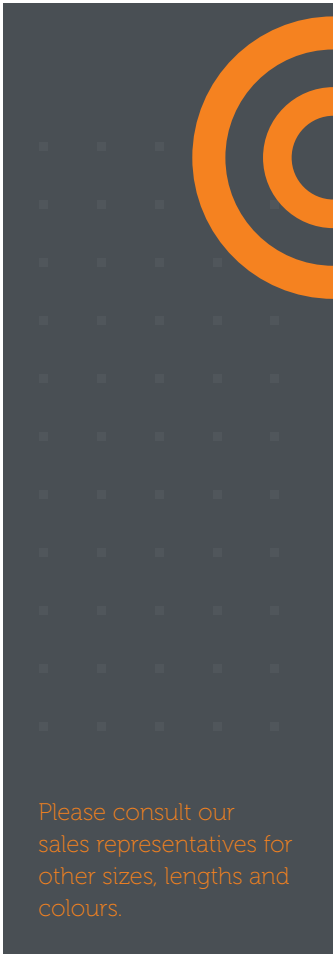representatives for other
sizes, thickness and
colours

CABLE TRUNKING FOR
Outdoor Use
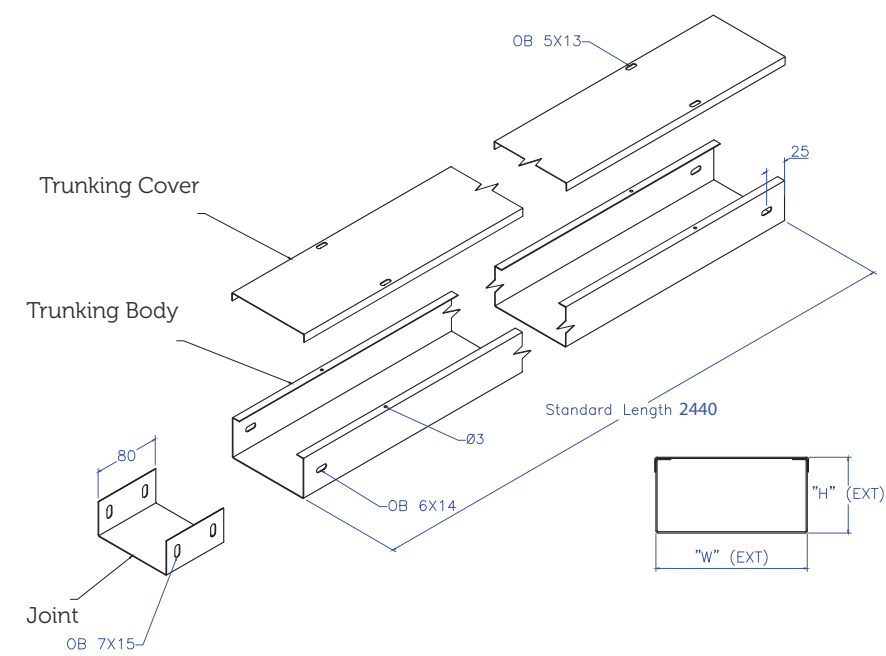
OB 5X13

Trunking Cover

Trunking Body

25

Standard Length **2440**

Ø3

OB 6X14

80

Joint

OB 7X15

"H" (EXT)

"W" (EXT)

Manufacture: MS 1EC 61084, BS EN 50085

Standard Length: 2440mm

Complete With: Joint, Tapping Screw, Bolt & Nuts, Copper link

Recommended Materials and Types of Finishing

Materials
Cold Rolled Steel JIS G3141 SPCC
Stainless Steel AISI 304, 316 or 316L(SS)
Aluminium A1100(AL)

Types of Finishing
Hot-Dip Galvanized to BS EN ISO1461: 1999 (HDG)
Original Finish
Original Finish

Product Code	W x H		Steel Thickness (mm)	
	(mm)	(Inches)	HDG	SS/AL
MT-021-**	50 X 25	2 X 1	1.0, 1.2, 1.4, 1.5, 1.6	0.8, 1.0, 1.2, 1.5
MT-022	50 X 50	2 X 2	1.0, 1.2, 1.4, 1.5, 1.6, 2.0	0.8, 1.0, 1.2, 1.5, 2.0
MT-032	75 X 50	3 X 2	1.0, 1.2, 1.4, 1.5, 1.6, 2.0	0.8, 1.0, 1.2, 1.5, 2.0
MT-033	75 X 75	3 X 3	1.0, 1.2, 1.4, 1.5, 1.6, 2.0	0.8, 1.0, 1.2, 1.5, 2.0
MT-042	100 X 50	4 X 2	1.0, 1.2, 1.4, 1.5, 1.6, 2.0	0.8, 1.0, 1.2, 1.5, 2.0
MT-043	100 X 75	4 X 3	1.0, 1.2, 1.4, 1.5, 1.6, 2.0	0.8, 1.0, 1.2, 1.5, 2.0
MT-044	100 X100	4 X 4	1.0, 1.2, 1.4, 1.5, 1.6, 2.0	0.8, 1.0, 1.2, 1.5, 2.0
MT-062	150 X 50	6 X 2	1.0, 1.2, 1.4, 1.5, 1.6, 2.0	0.8, 1.0, 1.2, 1.5, 2.0
MT-063	150 X 75	6 X 3	1.0, 1.2, 1.4, 1.5, 1.6, 2.0	0.8, 1.0, 1.2, 1.5, 2.0
MT-064	150 X 100	6 X 4	1.0, 1.2, 1.4, 1.5, 1.6, 2.0	0.8, 1.0, 1.2, 1.5, 2.0
MT-082	200 X 50	8 X 2	1.2, 1.4, 1.5, 1.6, 2.0	1.0, 1.2, 1.5, 2.0
MT-083	200 X 75	8 X 3	1.2, 1.4, 1.5, 1.6, 2.0	1.0, 1.2, 1.5, 2.0
MT-084	200 X 100	8 X 4	1.2, 1.4, 1.5, 1.6, 2.0	1.0, 1.2, 1.5, 2.0
MT-086	200 X150	8 X 6	1.2, 1.4, 1.5, 1.6, 2.0	1.0, 1.2, 1.5, 2.0
MT-102	250 X 50	10 X 2	1.2, 1.4, 1.5, 1.6, 2.0	1.0, 1.2, 1.5, 2.0
MT-104	250 X 100	10 X 4	1.2, 1.4, 1.5, 1.6, 2.0	1.0, 1.2, 1.5, 2.0
MT-106	250 X 150	10 X 6	1.2, 1.4, 1.5, 1.6, 2.0	1.0, 1.2, 1.5, 2.0
MT-122	300 X 50	12 X 2	1.2, 1.4, 1.5, 1.6, 2.0	1.0, 1.2, 1.5, 2.0
MT-124	300 X 100	12 X 4	1.2, 1.4, 1.5, 1.6, 2.0	1.0, 1.2, 1.5, 2.0
MT-126	300 X 150	12 X 6	1.4, 1.5, 1.6, 2.0	1.0, 1.2, 1.5, 2.0

Please consult our sales representatives for other sizes, lengths and colours.

Standard Straight Edge
Perforated Cable Tray

Cable Tray

"H"

"W" (INT)

Cable Tray 100W and Above

Cable Tray 50W and 75W

"W"

Fishplate Connector (Optional)

Manufacture: MS IEC 61537, NEMA VE1

Standard Length: 2440mm

Complete With: Fishplate, Bolt & Nut, Copper Link
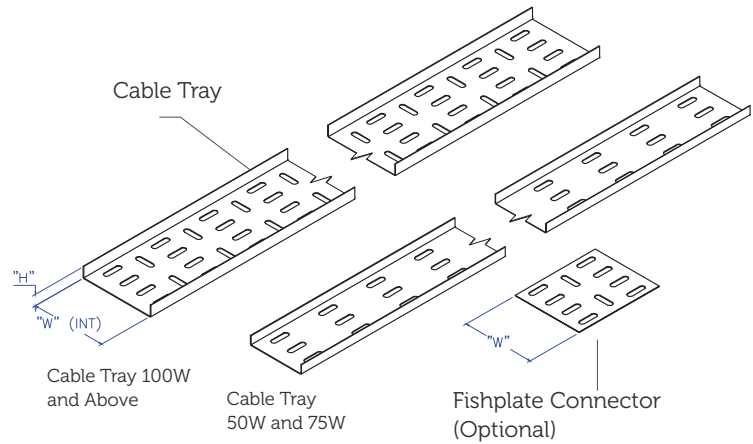
Standard Perforated Cable Tray Fitting

1. Flatwise Tee
2. Flatwise Cross
3. Flatwise 90 Deg Elbow
4. Left Side Reducer
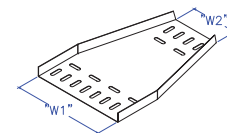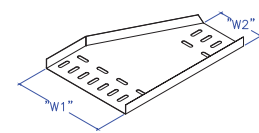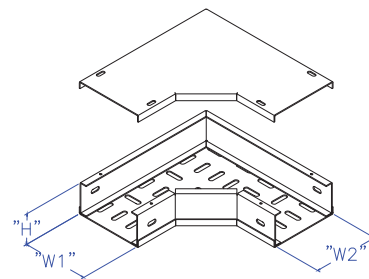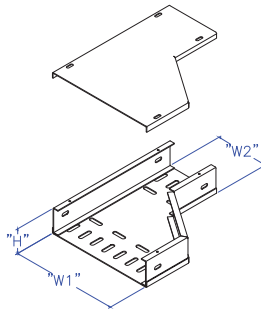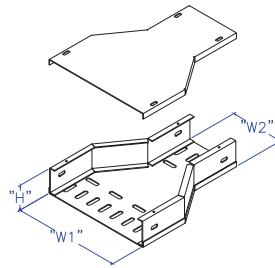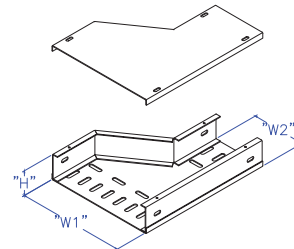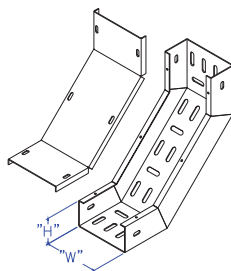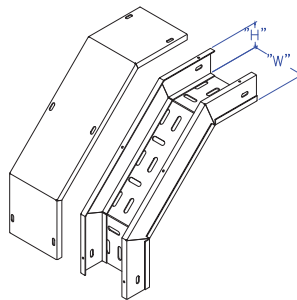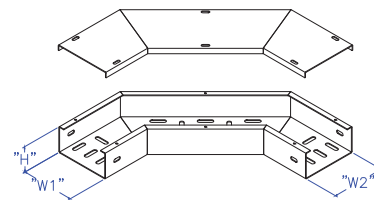5. Reducer
6. Right Side Reducer
7. Internal Riser
8. External Riser
9. Parallel 90 Deg Elbow

"W1"   "W2"   "W3"   "W3"   (1)

"W1"   "W4"   "W2"   "W3"   (2)

"W1"   "W2"   (3)

"W2"   "W1"   (4)

"W2"   "W1"   (5)

"W2"   "W1"   (6)

"W"   (7)

"W"   (8)
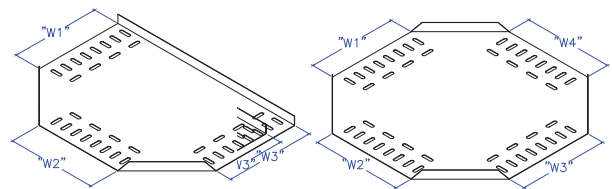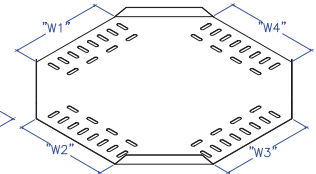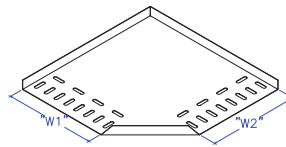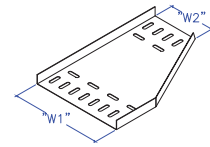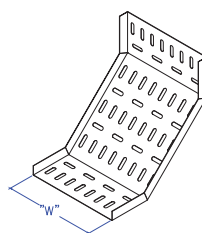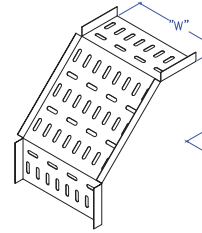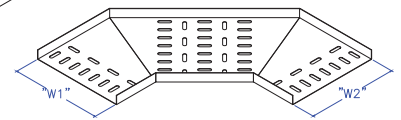
"W1"   "W2"   (9)

STANDARD PERFORATED
Cable Tray Sizes

Recommended Materials And Type Of Finishing

Materials	Type of Finishing	Recommended Use
Cold Rolled Steel JIS G3141 SPCC	Epoxy Powder Coated to ASTM B117	Indoor
Galvanised Iron JIS G3302 SGCC	Original Finish	Indoor
Cold Rolled Steel G3141 SPCC	Hot-Dip Galvanised to BS EN ISO1461:1999 (HDG)	Outdoor
Stainless Steel AISI 304,316 or 316L (SS)	Original Finish	Outdoor
Aluminium A1100 (AL)	Original Finish	Outdoor

Standard Sizes Of Cable For

Epoxy Powder Coated
Galvanised Iron
Stainless Steel
Aluminium

Product Code	Width (mm)	Thickness							Flange Height (Mm)
		0.8mm	1.0mm	1.2mm	1.4mm*	1.5mm	1.6mm*	2.0mm	
CT-02	50	*	*	*	*	*	*		12
CT-03	75	*	*	*	*	*	*		12
CT-04	100	*	*	*	*	*	*		15
CT-06	150	*	*	*	*	*	*	*	15
CT-08	200	*	*	*	*	*	*	*	20
CT-10	250	*	*	*	*	*	*	*	20
CT-12	300		*	*	*	*	*	*	25
CT-14	350		*	*	*	*	*	*	25
CT-16	400		*	*	*	*	*	*	25
CT-18	450			*	*	*	*	*	25
CT-20	500			*	*	*	*	*	25
CT-22	550				*	*	*	*	25
CT-24	600						*	*	30
CT-30	750						*	*	30
CT-32	800							*	30
CT-36	900							*	30
CT-40	1000							*	30

*Indication of the gauge of material

(* For Epoxy Powder Coated Cable Tray)

Standard Sizes Of Cable For

Hot-Dip Galvanised

Please consult our sales representatives for other sizes, lengths and colours.

Product Code	Width (mm)	Thickness						Flange Height (Mm)
		1.0mm	1.2mm	1.4mm*	1.5mm	1.6mm*	2.0mm	
CT-02	50	*	*	*	*	*		12
CT-03	75	*	*	*	*	*		12
CT-04	100	*	*	*	*	*		15
CT-06	150	*	*	*	*	*		15
CT-08	200	*	*	*	*	*	*	20
CT-10	250	*	*	*	*	*	*	20
CT-12	300	*	*	*	*	*	*	25
CT-14	350	*	*	*	*	*	*	25
CT-16	400			*	*	*	*	25
CT-18	450			*	*	*	*	25
CT-20	500			*	*	*	*	25
CT-22	550				*	*	*	25
CT-24	600					*	*	30
CT-30	750					*	*	30
CT-32	800						*	30
CT-36	900						*	30
CT-40	1000						*	30

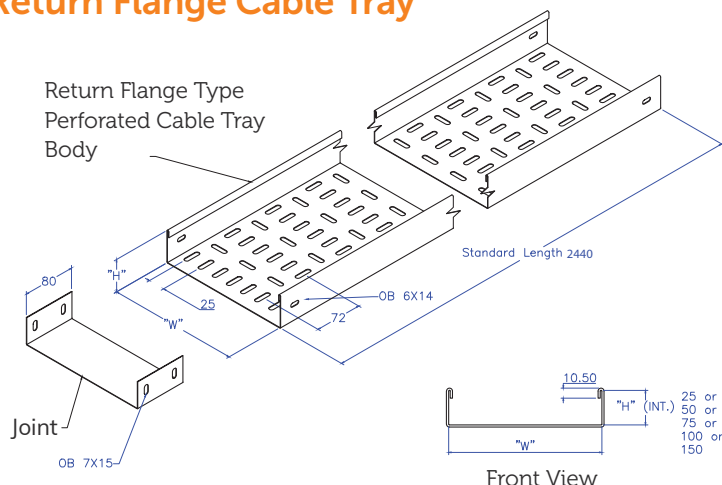*Indication of the gauge of material

Other requirement upon request.

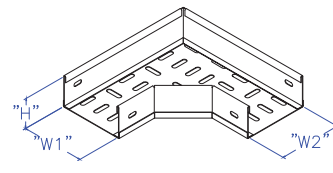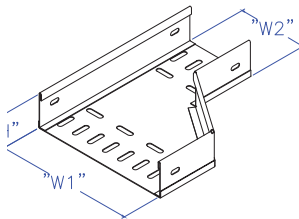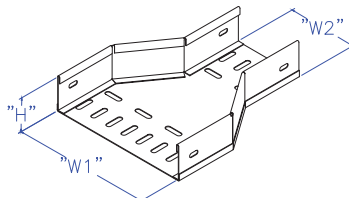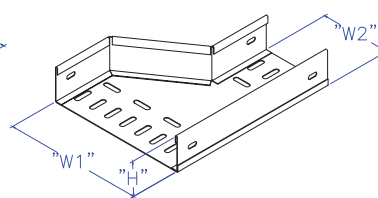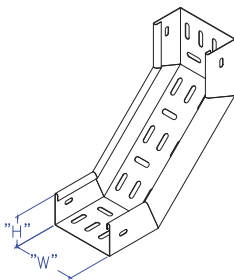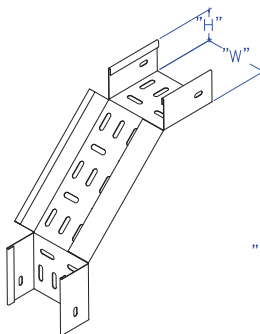# TROUGH TYPE
Perforated Cable Tray

Manufacture: MS 1EC 61537, NEMA VE1

Standard Length: 2440mm

Complete With: Joint, Tapping Screw, Bolt & Nuts, Copper links (Optional)

Trough Type Cable Tray With Cover

Cover (Optional)

OB 5X13

Standard Length 2440

"H"

"W"

"H" (EXT.) 25 or
50 or
75 or
100 or
150

"W"

Front View

Trough Type Cable Tray

Trough Type Perforated Cable Tray Body

Standard Length 2440

80

"H"

25

OB 6X14

72

"W"

OB 7X25

Joint

OB 7X15

"H" (EXT.) 25 or
50 or
75 or
100 or
150

"W"

Front View
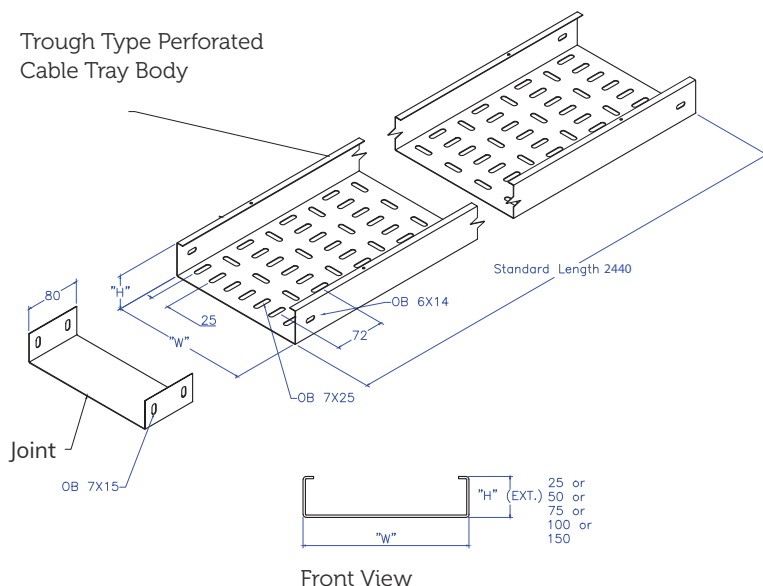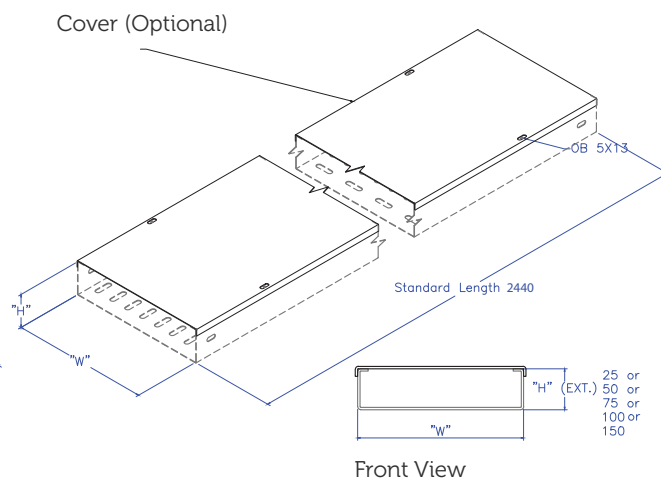
Product Code	Standard Size Width (mm)	Gauge / Thickness (mm)
TCT-06	150	1.0 - 2.0
TCT-08	200	1.0 - 2.0
TCT-12	300	1.2 - 2.0
TCT-16	400	1.5 - 2.0
TCT-24	600	1.5 - 2.0
TCT-32	800	2.0
TCT-60	1000	2.0

Other requirements available upon request.

Recommended Materials and Types of Finishing

Materials	Types of Finishing	Recommended Use
Cold Rolled Steel JIS G3141 SPCC	Epoxy Powder Coated to ASTM B117	Indoor
Galvanized Iron JIS G3302 SGCC	Original Finish	Indoor
Cold Rolled Steel G3141 SPCC	Hot-Dip Galvanised to BS EN 1SO1461:1999 (HDG)	Outdoor
Stainless Steel AISI 304, 316 or 316L (SS)	Original Finish	Outdoor
Aluminium A1100 (AL)	Original Finish	Outdoor

Please consult our sales representatives for other sizes, lengths and colours.

Trough Type Perforated
Cable Tray Fitting

Flatwise Tee

Flatwise Cross

Flatwise 90 Deg Elbow

Left Side Reducer

Reducer

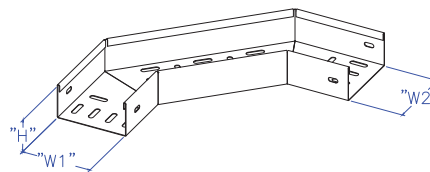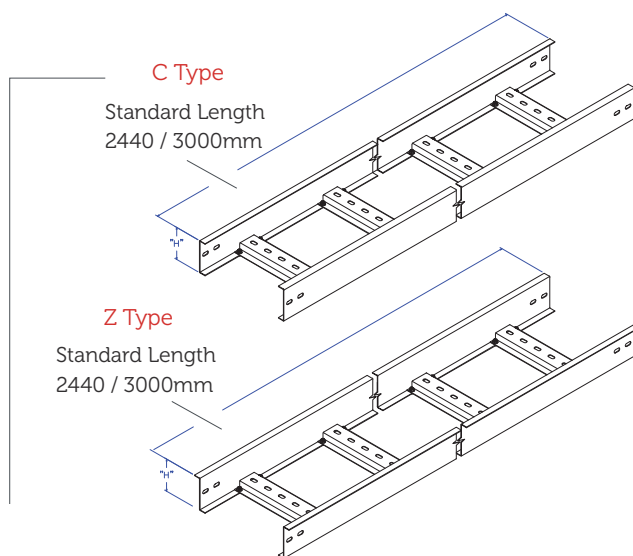Right Side Reducer

Internal Riser

External Riser

90 Deg Parallel

Note: Cover Optional

12

Return Flange
Perforated Cable Tray

Manufacture: MS 1EC 61537, NEMA VE1

Standard Length: 2440mm (please Specify if others)

Complete With: Joint, Tapping Screw, Bolt & Nuts, Copper links (Optional)

Return Flange Cable Tray

Return Flange Type Perforated Cable Tray Body

80

"H"

25

"W"

0B 6X14

72

Standard Length 2440

Joint

0B 7X15

10.50

"H" (INT.)   25 or 50 or 75 or 100 or 150

"W"

Front View

Return Flange Cable Tray With Cover

Cover (Optional)

"H"

"W"

35

25

CLIP

Standard Length 2440

(All Dimensions in mm)

Front View
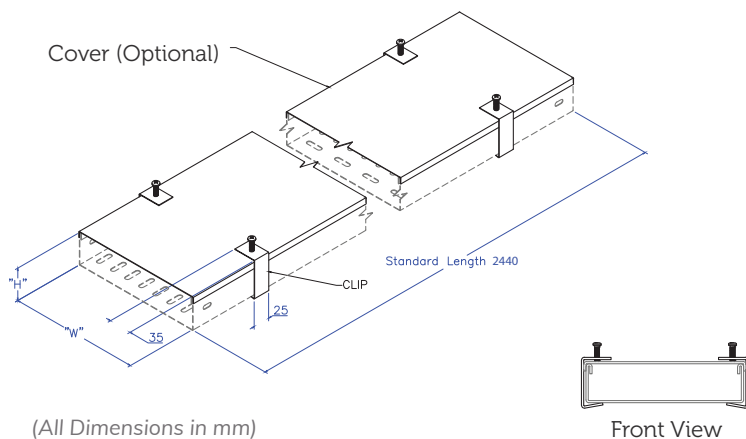
Product Code	Standard Size Width (mm)	Gauge / Thickness (mm)
RFCT-06	150	1.0 - 2.0
RFCT-08	200	1.0 - 2.0
RFCT-12	300	1.2 - 2.0
RFCT-16	400	1.5 - 2.0
RFCT-24	600	1.5 - 2.0
RFCT-36	800	2.0
RFCT-40	1000	2.0

Other requirements available upon request.

Recommended Materials and Types of Finishing

Materials	Types of Finishing	Recommended Use
Cold Rolled Steel JIS G3141 SPCC	Epoxy Powder Coated to ASTM B117	Indoor
Galvanized Iron JIS G3302 SGCC	Original Finish	Indoor
Cold Rolled Steel G3141 SPCC	Hot-Dip Galvanised to BS EN 1SO1461:1999 (HDG)	Outdoor
Stainless Steel AISI 304, 316 or 316L (SS)	Original Finish	Outdoor
Aluminium A1100 (AL)	Original Finish	Outdoor

Flatwise Tee

Flatwise Cross

Flatwise 90 Deg Elbow

Left Side Reducer

Reducer

Right Side Reducer

Internal Riser

External Riser

90 Deg Parallel Elbow

Note: Cover with clips are optional

Knock Down Type
Cable Ladder

Manufacture: MS 1EC 61537, NEMA VE1

Standard Length: 2440mm / 3000mm

Complete With: Joint, Tapping Screw, Bolt & Nuts, Copper links (Optional)

Standard Thickness: 2.0mm (side rail) & 1.5mm (Rung)

Standard Height: 100mm

Cable Ladder

RUNG SPACING = 300
STANDARD LENGTH 3000

RUNG SPACING = 300
STANDARD LENGTH 2440

Cable Ladder Top View

C Type
Standard Length 2440 / 3000mm
"H"

Z Type
Standard Length 2440 / 3000mm
"H"
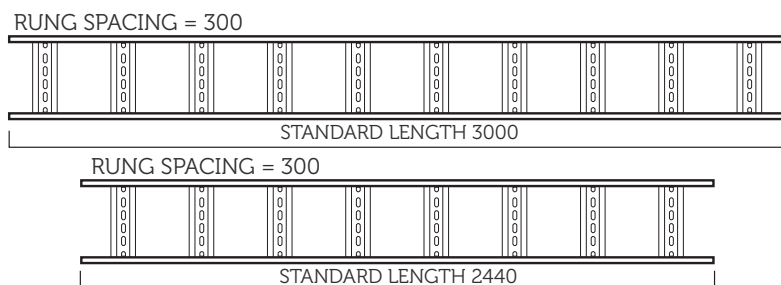
Rung For Knock Down Ladder
(All Dimensions in mm)

KD LADDER C TYPE
"W" (INT.)
"H" (EXT.)
Fastener

KD LADDER Z TYPE
"W" (INT.)
"H" (EXT.)
Fasterner
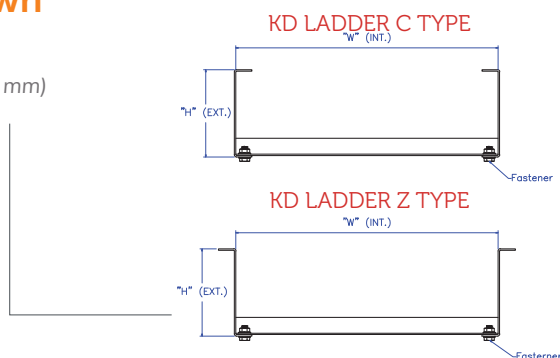
Product Code	Standard Width (mm)	Inches
KDL-06	150	6
KDL-12	300	12
KDL-18	450	18
KDL-24	600	24
KDL-30	750	30
KDL-36	900	36
KDL-40	1000	40
KDL-48	1200	48

Other requirements available upon request.

Recommended Materials and Types of Finishing

Materials	Types of Finishing	Recommended Use
Cold Rolled Steel JIS G3141 SPCC	Epoxy Powder Coated to ASTM B117	Indoor
Electroplated ZInc Coated JIS G3313 SECC	Epoxy Powder Coated to ASTM B117	Indoor
Cold Rolled Steel G3141 SPCC	Hot-Dip Galvanised to BS EN 1SO1461:1999 (HDG)	Outdoor
Stainless Steel AISI 304, 316 or 316L (SS)	Original Finish	Outdoor
Aluminium A1100 (AL)	Original Finish	Outdoor

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Welded Type
Cable Ladder

Manufacture: MS 1EC 61537, NEMA VE1

Standard Length: 2440mm / 3000mm

Complete With: Joint, Tapping Screw, Bolt & Nuts, Copper links (Optional)

Standard Thickness: 2.0mm (side rail) & 1.5mm (rung)

Standard Height: 100mm

Cable Ladder

RUNG SPACING = 300

STANDARD LENGTH 3000

RUNG SPACING = 300

STANDARD LENGTH 2440

Cable Ladder Top View

Wd Ladder C-Out Type
W (INT.)
H (EXT.)

Wd Ladder C-In Type
W (INT.)
H (EXT.)

Wd Ladder Z Type
W (INT.)
H (EXT.)

C-Out Type
Standard Length 2440 / 3000mm
H

C-In Type
Standard Length 2440 / 3000mm
H

Rung For Welded Ladder
(All Dimensions in mm)

Z Type
Standard Length 2440 / 3000mm
H

54 OB 5 x 10
H (EXT)
50
W (EXT)

Product Code	Standard Width (mm)	Inches
WDL-06	150	6
WDL-12	300	12
WDL-18	450	18
WDL-24	600	24
WDL-30	750	30
WDL-36	900	36
WDL-40	1000	40
WDL-48	1200	48

Other requirements available upon request.

Recommended Materials and Types of Finishing

Materials	Types of Finishing	Recommended Use
Cold Rolled Steel JIS G3141 SPCC	Epoxy Powder Coated to ASTM B117	Indoor
Hot Rolled Steel JIS G3131 SPHC	Hot-Dip Galvanised to BS EN 1SO1461:1999 (HDG)	Outdoor
Stainless Steel AISI 304, 316 or 316L (SS)	Original Finish	Outdoor

Cable Ladder Fitting

Siderail

Rung

Flatwise Cross

Siderail

Rung

Bend Cross

Siderail

Rung

Flatwise Tee

Siderail

Rung
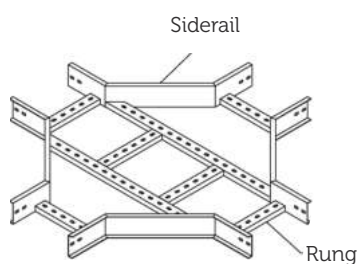
Bend Tee

Flatwise Cross
WDL-CRS W-C-OUT (C)
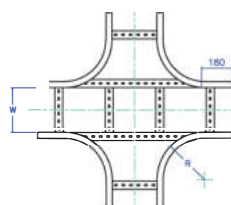
Bend Cross
WDL-BCRS W-C-OUT (C)
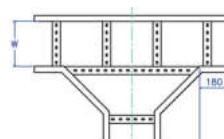
Flatwise Tee
WDL-TEE W-C-OUT (C)
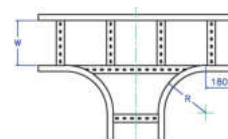
Bend Tee
WDL-BT W-C-OUT (C)
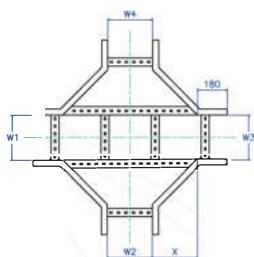
Unequal Cross
WDL-UC W1/W2/W3/W4-C-OUT (C)
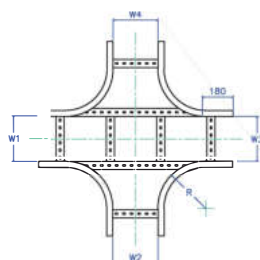
Unequal Bend Cross
WDL-BUC W1/W2/W3/W4-C-OUT (C)
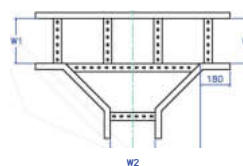
Unequal Tee
WDL-UT W1/W2/W3/W4-C-OUT (C)
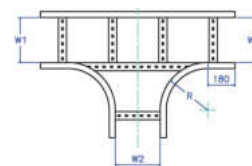
Unequal Bend Tee
WDL-BUT W1/W2/W3/W4-C-OUT (C)

Cable Ladder Fitting

Flatwise Elbow

Siderail

Rung

Bend

Siderail
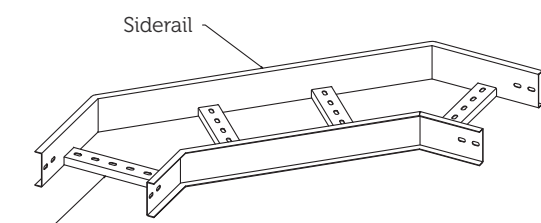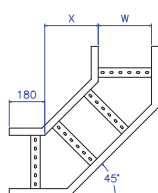
Rung

Flatwise Elbow
WDL-EB W-C-OUT (C)
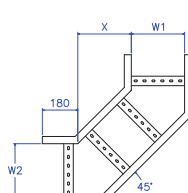
Unequal Elbow
WDL-UE W-C-OUT (C)
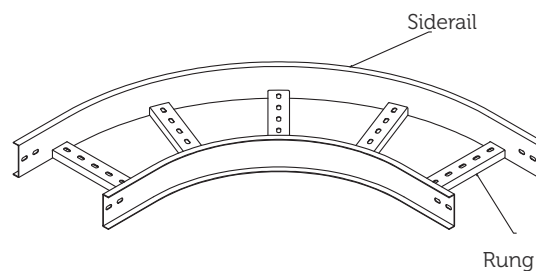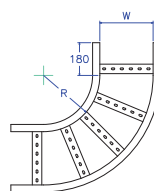
Bend
WDL-BEND W-C-OUT (C)
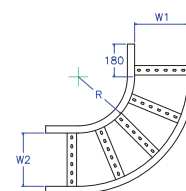
Unequal Bend
WDL-UB W-C-OUT (C)
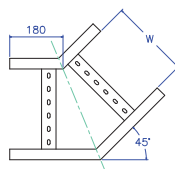
45 Deg Flatwise Elbow
WDL-EB(45) W-C-OUT (C)
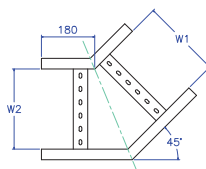
45 Deg Unequal Elbow
WDL-UE(45) W-C-OUT (C)
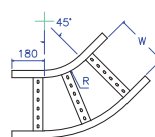
45 Deg Bend
WDL-BEND(45) W-C-OUT (C)
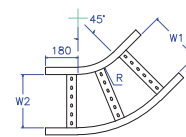
45 Deg Unequal Bend
WDL-UB(45) W-C-OUT (C)

Flatwise External Riser
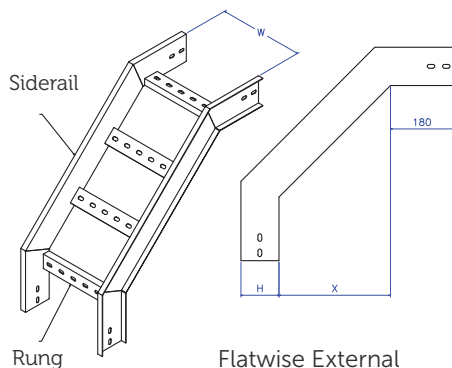
Siderail

Rung

Flatwise External Riser
WDL-ER W-C-OUT (C)

Flatwise Internal Riser
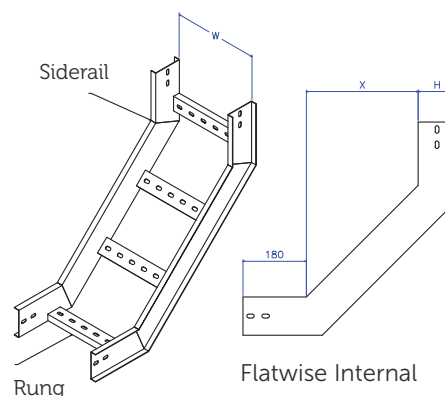
Siderail

Rung

Flatwise Internal Riser
WDL-UB W-C-OUT (C)

Cable Ladder Fitting

Bend Internal Riser
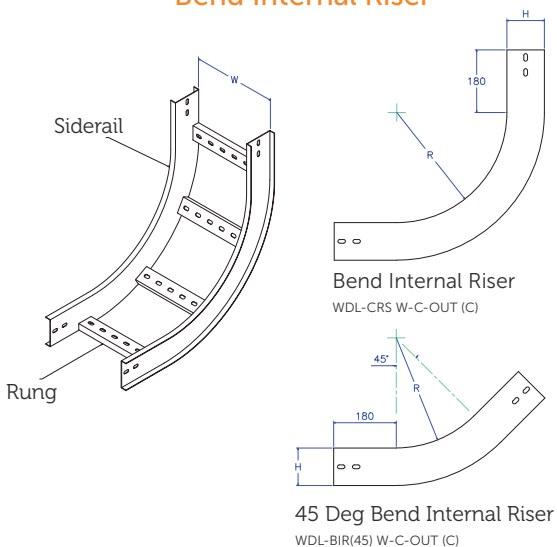
Siderail

Rung

Bend Internal Riser
WDL-CRS W-C-OUT (C)

45 Deg Bend Internal Riser
WDL-BIR(45) W-C-OUT (C)

Bend External Riser

Siderail

Rung

Bend External Riser
WDL-BER W-C-OUT (C)

45 Deg Bend External Riser
WDL-BER(45) W-C-OUT (C)

Left Side Reducer

Siderail

Rung

Left Side Reducer
WDL-LRD W1/W2-C-OUT (C)

Reducer

Siderail

Rung

Reducer
WDL-RD W1/W2-C-OUT (C)

Right Side Reducer

Siderail

Rung
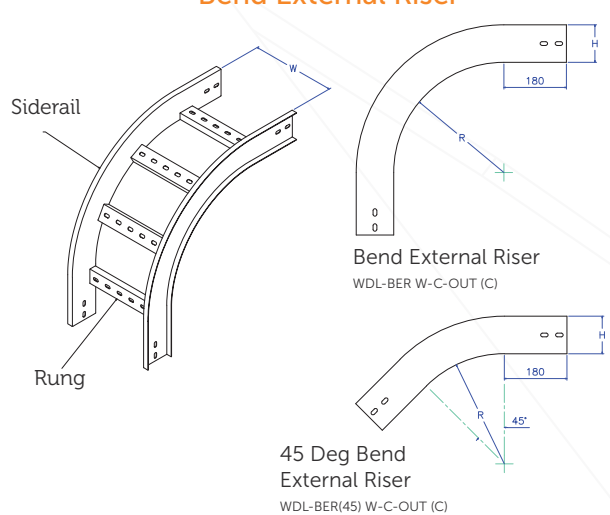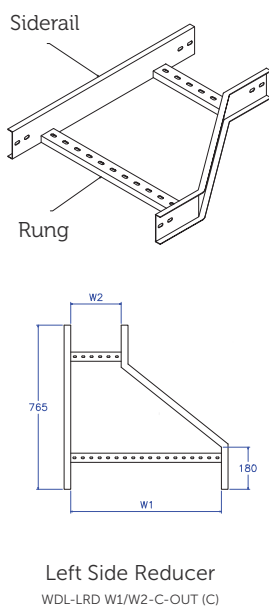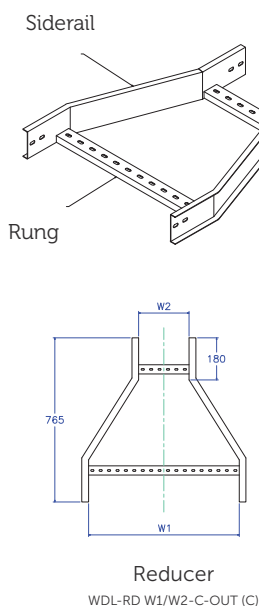
Right Side Reducer
WDL-RRD W1/W2-C-OUT (C)
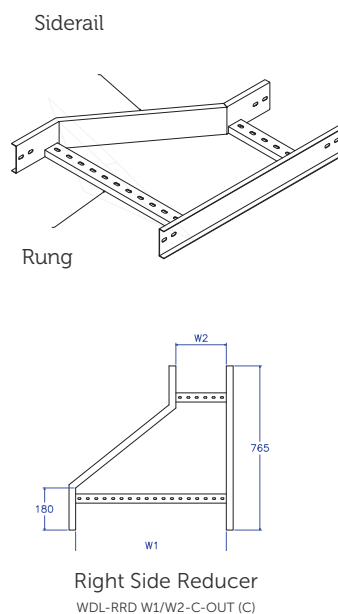
Cable Ladder Accessories
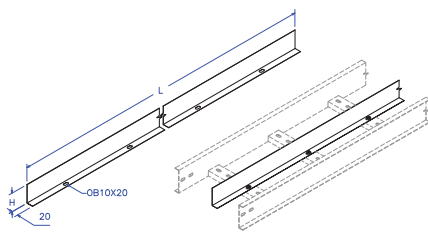
Ladder Divider
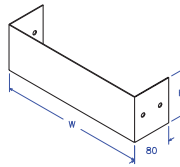
Ladder End Plate
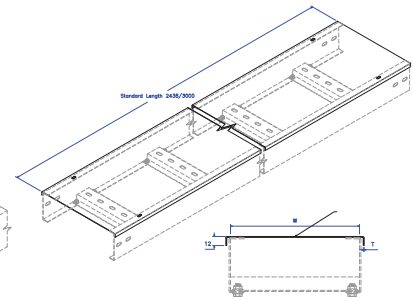
C-In C/W Tapping Screw
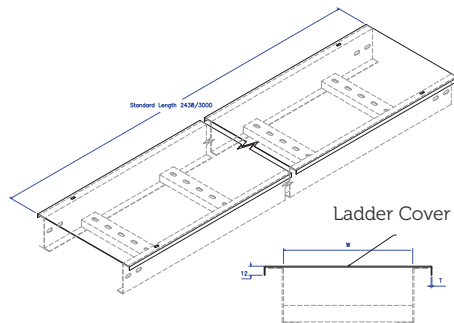
C-Out And Z-Type C/W Tapping Screw
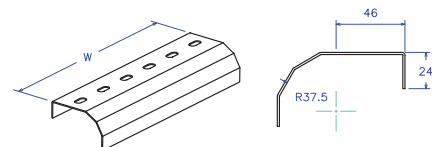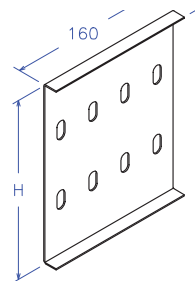

Ladder Drop Out Plate
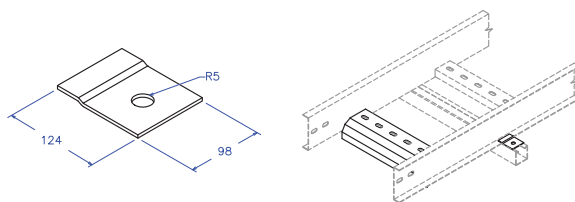
Ladder Hold Clip
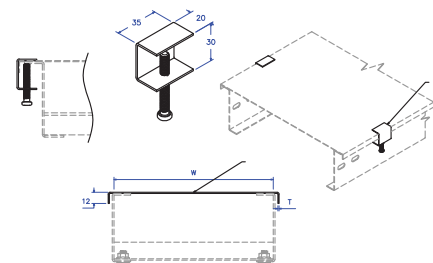
C-Out And Z-Type C/W Hold Down Clamp
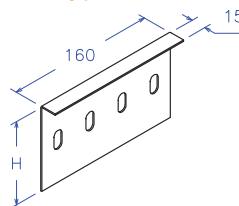
Cable Ladder Accessories

C-Type
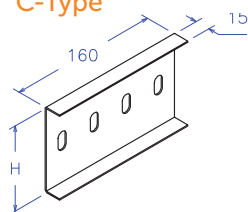
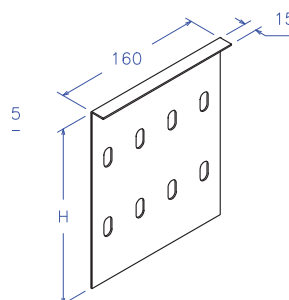For Ladder Height: 75, 100, and 120mm

For Ladder Height: 150 and 200mm
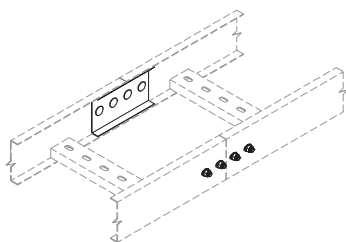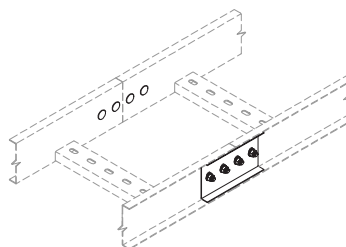
Z-Type

For Ladder Height: 75, 100, and 120mm
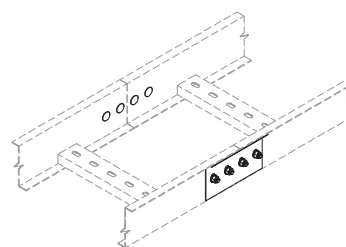

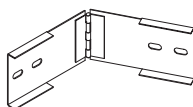
For Ladder Height: 150 and 200mm
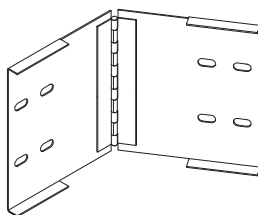
C-In Type

C-Out Type
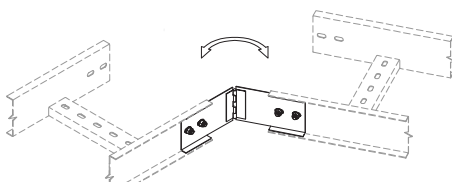

Z-Type

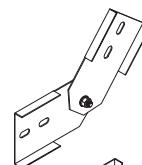### Horizontal Adjustable Ladder Joint

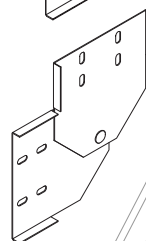For Ladder Height: 75, 100, and 120mm. C-Type

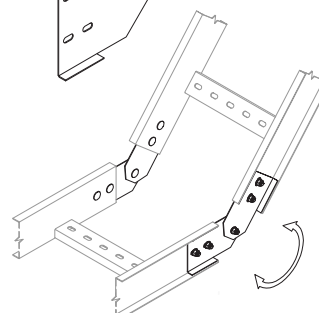For Ladder Height: 150 and 120mm. C-Type

Vertical Adjustable Ladder Joint

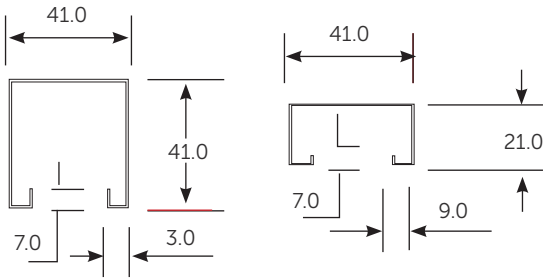For Ladder Height: 75, 100, and 120mm. C-Type

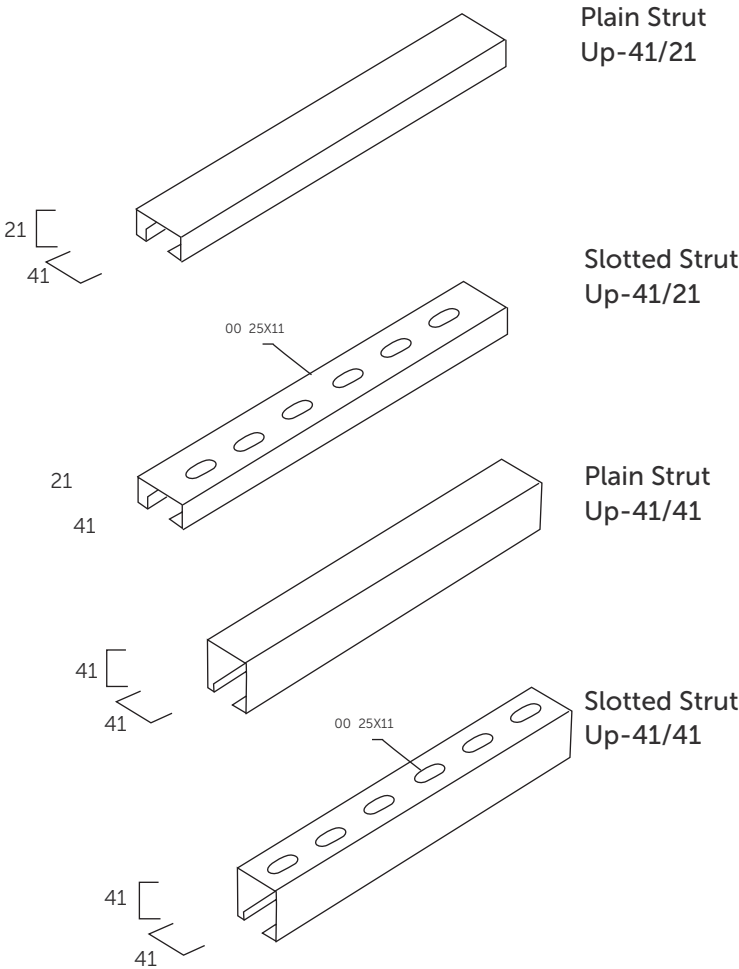For Ladder Height: 150 amd 200mm. C-Type

Heavy Duty Strut Channel

41.0
41.0
7.0
3.0

41.0
21.0
7.0
9.0

BS 6946 Unistrut (Length 3000mm)

Type	Item Code	Thickness
Plain	UP-41/21	2.0MM/ 2.3MM
Slotted	US-41/21	2.0MM/ 2.3MM
Plain	UP-41/41	2.0MM/ 2.3MM
Slotted	US-41/41	2.0MM/ 2.3MM

Other requirements available upon request.

Plain Strut
Up-41/21

21
41

Slotted Strut
Up-41/21

00 25X11

21
41

Plain Strut
Up-41/41

41
41

Slotted Strut
Up-41/41

00 25X11

41
41

Example Of Application

Up-41/21

Up-41/21
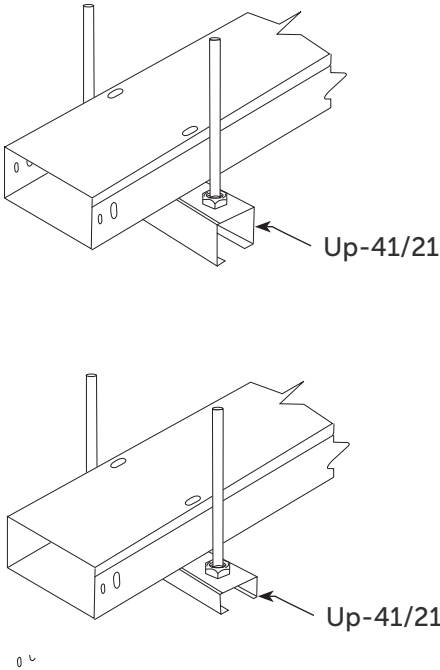
The power within

What goes into a building? What's behind the four walls and all the comforts and convenience of a home that we experience every day? What we don't see is a myriad of inner works that breathe life to a building.

This is where CCM plays its part, behind every building infrastructure. Our pride is empowering contractors, architects and distributors to effectively deliver electricity, light and data to spaces where people work, live and play, in the office, at the malls, and most of all, in the comfort of their homes.

We create innovation and practical, value-driven solutions to our clients. This, is our power within, to help our clients.

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High performance products at affordable prices

We have a whole range of proven product superiority and are a key manufacturer and supplier of electrical accessories, at prices that are competitive.

Value-driven solutions with our focus on cost efficiencies

We know what our clients need to succeed and we deliver - meeting their deadlines, their specific requirements, with cost efficiencies that ensure they never have to pay more than they should.

Strong focus on R&D

We believe what is good, can even be better. That's why we innovate through constant R&D.

Highly supportive team

Supporting you and supporting each other. We never think twice about going beyond what is expected of us.

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