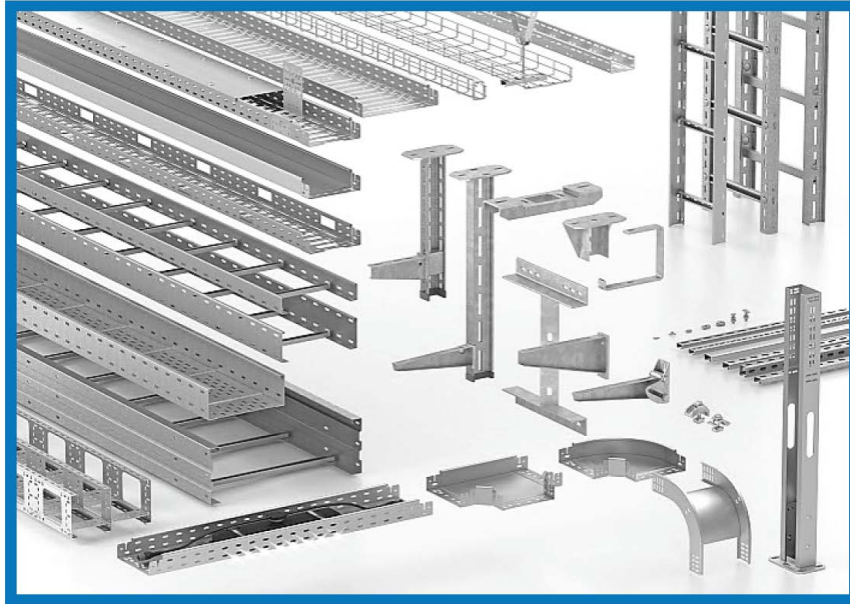
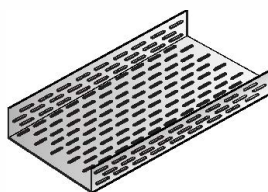


# Cable Management System

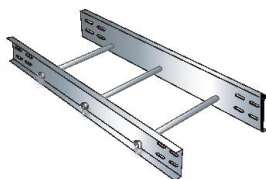
There are a wide variety of containment systems available to organize and store cables within an installation. They tend not to be used exclusively for a particular type of wiring system, and the containment system chosen is often as much decided by the budget and practical considerations of the building it is being installed in as the cabling type itself.



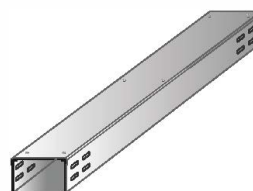
A complete range of cable management systems for any large stock installation of standard cable trunking, tray and basket bespoke one of the solutions designed and manufactured in house taking note of all international & GCC standards.



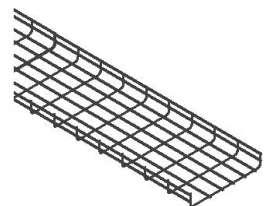
Cable Tray



Cable Ladder



Cable Trunk



Basket Tray

# Standards And Definitions

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



**American National Standards Institute (Ansi)**

11 West 42nd Street

New York, NY 10036



**National Fire Protection Association (Nfpa)**

Batterymarch Park

Quincy, Ma 02269

Ansi/Nfpa 70-93 National Electrical Code

And Other Equivalent / Relative Standards



**American Society For Testing Materials**

1916 Race Street

Philadelphia, PA 1903

ASTM A 123 - 89 Zinc (Hot – Dip Galvanized) coatings on Iron & Steel Products.

ASTM A 525 - 87 Genera requirements, Steel sheet, Zinc – coated (Galvanized) by Hot-Dip process.

ASTM B 633 - 98 Electrodeposited coatings of Zinc on Iron and Steel.

ASTM B 766 - 86 Electrodeposited coatings of cadmium.

*And other equivalent / relative standards*



**National Electrical Manufacturer's Association (Nema)**

IEC-61537 - Requirements and tests for cable tray systems (such as; all metal cable trays including wire mesh cable tray and non-metallic cable trays) for the support, accommodation of cables and possibly other electrical equipment in electrical and/or communication systems.

*And other equivalent/relative standard*

# Material & Product Standards

## **MATERIALS**

### **Mild Steel - Plain**

A. Hot rolled steel plates, sheets and coils s235 jr, As per :

EN 10025-2 / DIN 17100 / BS 4360 / ASTM A653 / ASTM A 1011 ASTM A 1011-011-01 a/ JIS 3101 / JIS 3106 / GB 700 / T1 591

ASTM A 907 / ASTM A 572 M.

B. Cold Rolled Steel DC 01 , As per :

EN 10130 / DIN 1623, Part 2 / BS 1449 :1 / ASTM A 1008 JIS G3141 / GB 699, EN 10131 / ASTM A 568M.

*\*Note: All outdated standards / codes are replaced with new/ latest versions and the final product shall comply with the latest version*

### **Mild Steel - Galvanized**

C. Continuously Pre-Galvanized Hot-Dip Zinc Coated Steel DX 51 D +Z, As per :

EN 10327 / DIN 17162 / BS 2989 / ASTM A527M / ASTM A653 M JIS G 3302. EN 10326 / EN 10142 / ASTM A 526, 527, 528 / ASTM A 146

D. Electro Galvanized Steel ( Electrolytic Coating ) DC01 + ZE As per :

EN 10152 / DIN 17163 / ASTM A591 / JIS G3313 JIS G3141 / BS 1449 : 1 / EN 10131.

*\*Note: All outdated standards / codes are replaced with new/ latest versions and the final product shall comply with the latest version*



### **Stainless Steel**

F. Austenitic Stainless Steels AISI 304 & 316 As per:

ASTM A240 / EN 10088 - 2 / DIN 17400 / BS 1449-2  
ASTM A480 / ASTM A666 / ISO 3506 / EN 10028-7 JIS G4304

F.1 Stainless Steel Fasteners EN 3506

F.2 Stainless Steel Wire BS 1554, ASTM A 276

### **Aluminium**

G. Aluminium 5052 & 6063

*\*Note: All outdated standards / codes are replaced with new/ latest versions and the final product shall comply with the latest version*

## **FINISHES**

1. HOT - DIP Galvanization After Fabrication As per : ASTM A 123 / ASTM A 153 / ISO 1461 BS 729 / DIN 50976

2. ZINC Electroplating After Fabrication As per : ASTM B633 / EN 12329 / ISO 4042 / BS 1706 / BS 3382 DIN 50961

3. Powder Coating: Epoxy / Polyester / Epoxy & Polyester BS 3900 / 2409 / ISO 1519 / ISO 1520

*\*Note: All outdated standards / codes are replaced with new/ latest versions and the final product shall comply with the latest version*

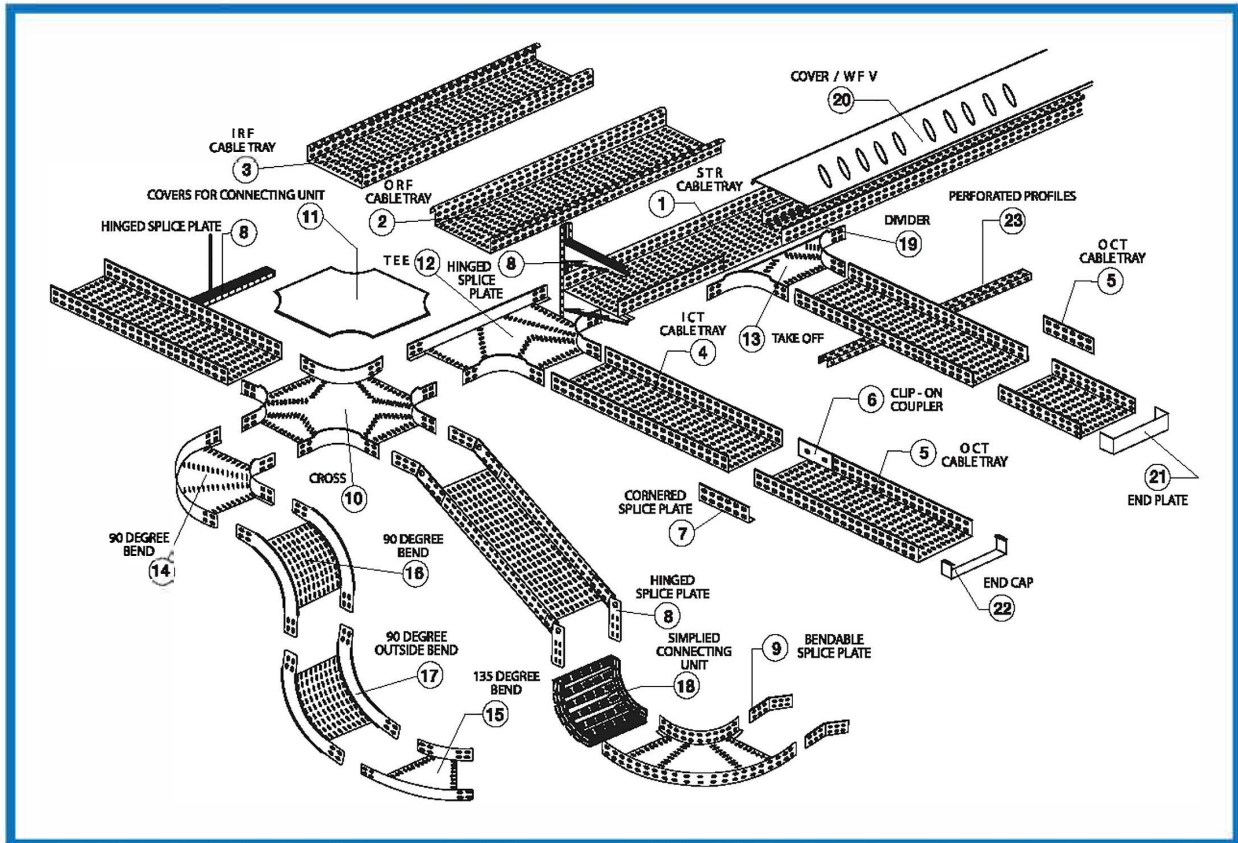




# Cable Tray System

Heavy duty return flang Cable Tray is ideal for use in situations where greater strength and rigidity are required. The side flange of 50 mm depth and with a 10 mm return, is to carry heavier cables with fewer supports.

The special couplings quickly Lock into position and make the flanges continuous. the other flange heights are also available on request.

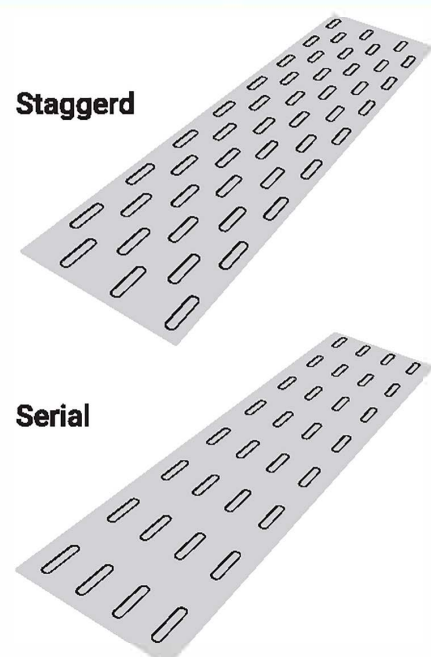


## Product Range

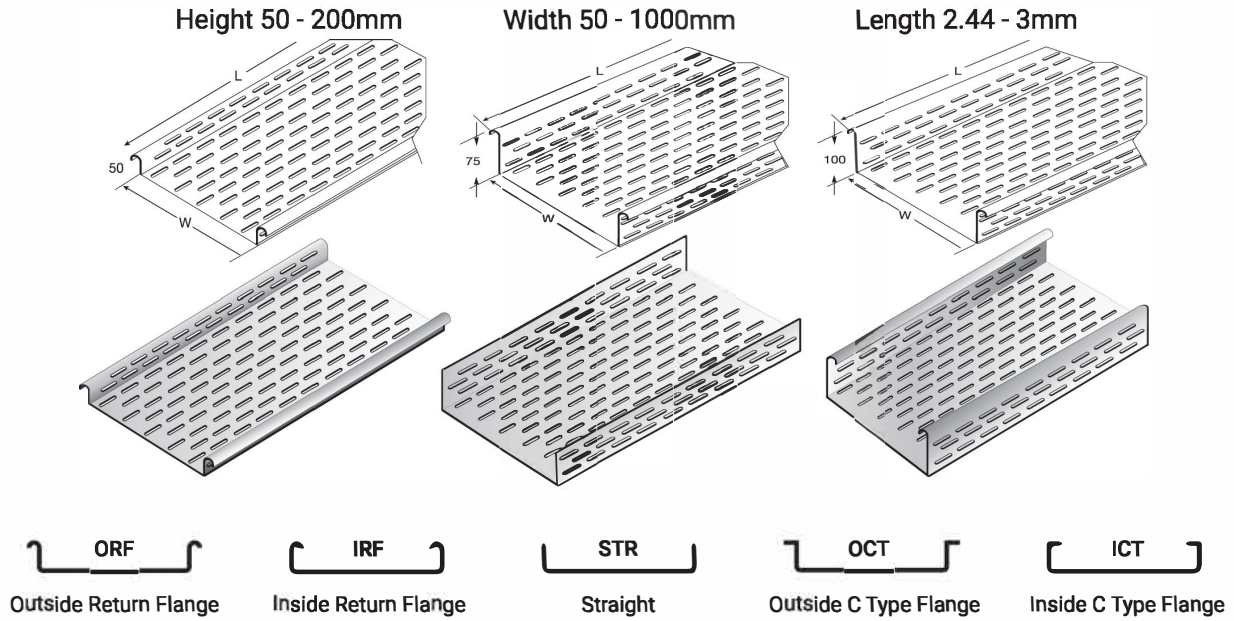
- ▶ **Light Duty**  
LCT (1.00mm Thickness)
- ▶ **Medium Duty**  
HCT (1.20mm Thickness)
- ▶ **Heavy Duty**  
HCT (1.50mm Thickness)
- ▶ **Very Heavy Duty**  
VCT (2.00mm Thickness)

*\* Custom Sizes Also Available*

## Types Of Perforation

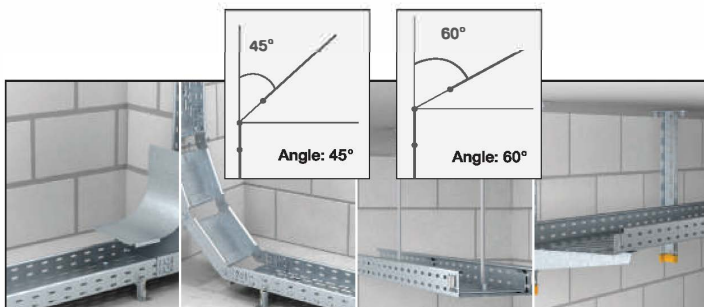
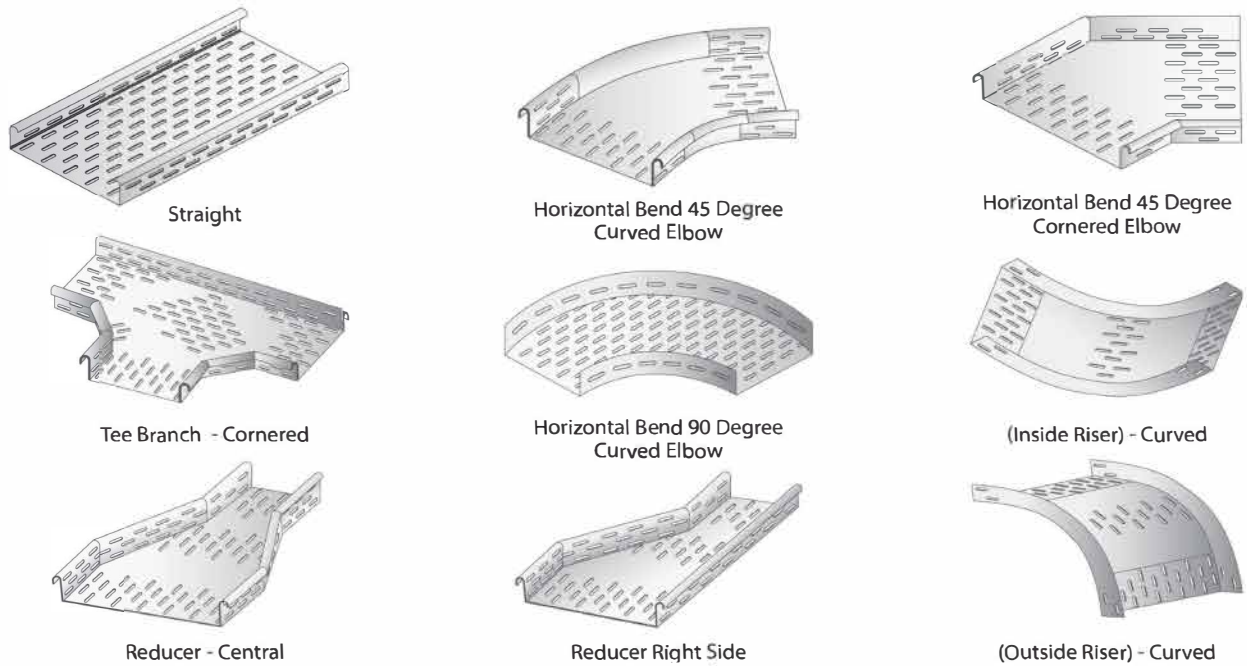


# Cable Tray With Different Dimensions

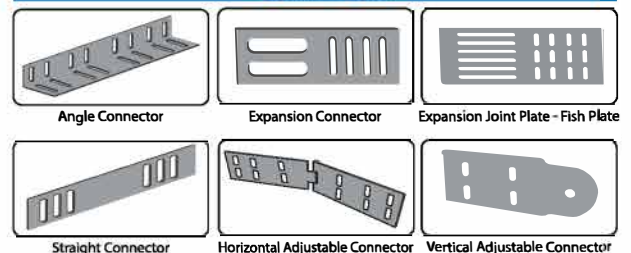


## Cable Tray Fitting & Accessories

### Corners and Curved



### Connector



# Cable Ladder System

Cable ladder is a more reliable, less expensive solution for supporting cable, which is easier to maintain, proves more adaptable to changing needs, and is more suitable for harsh and corrosive environments.

In specifying cable ladder, you will be choosing a highly versatile solution which delivers quality and performance over the long term.



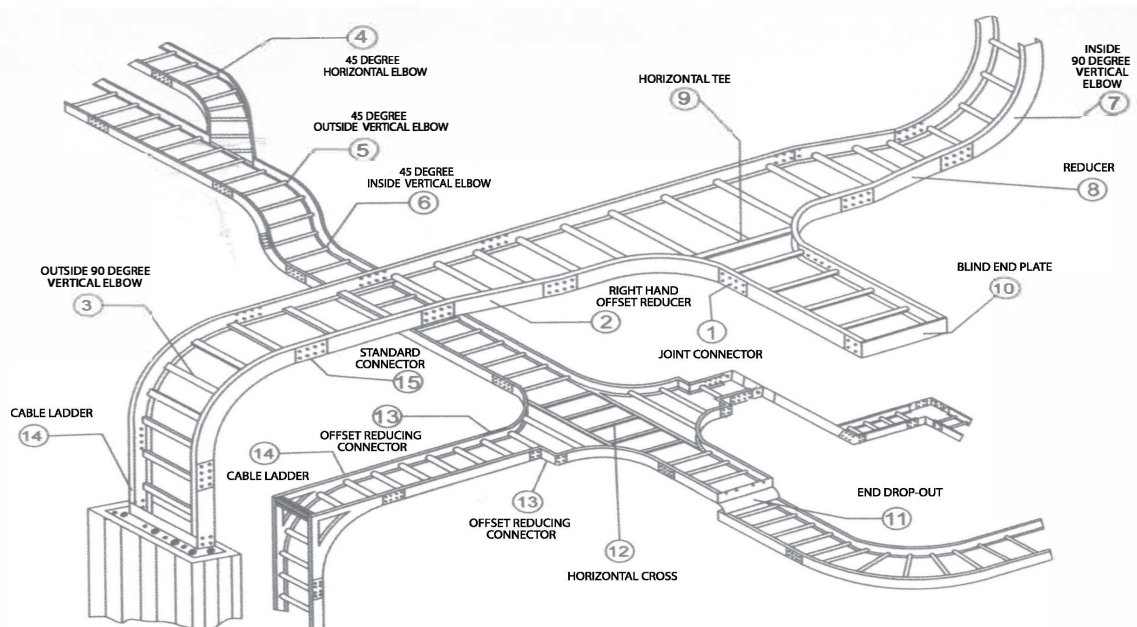
Round Tubular / Swaged or Welded



Plain Channel (STEEL)



Slotted Channel (STEEL)



## Materials Type

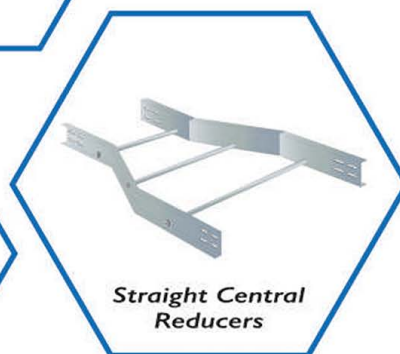
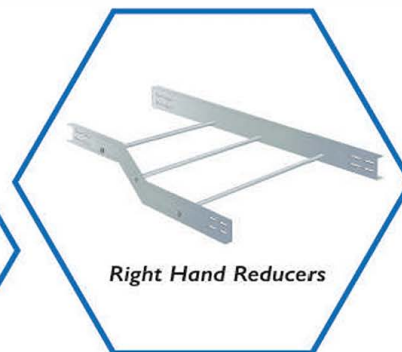
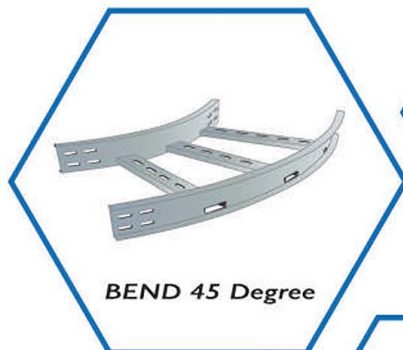
Aluminium

Steel

Stainless Steel



# Cable Ladder Fitting & Accessories



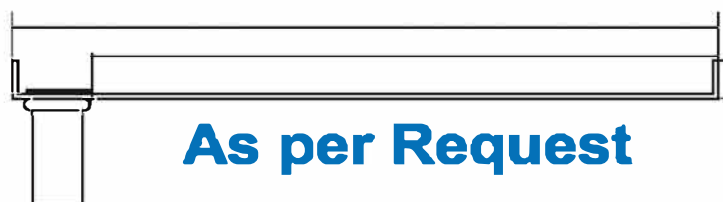
**Z-TYPE**



**C-TYPE**



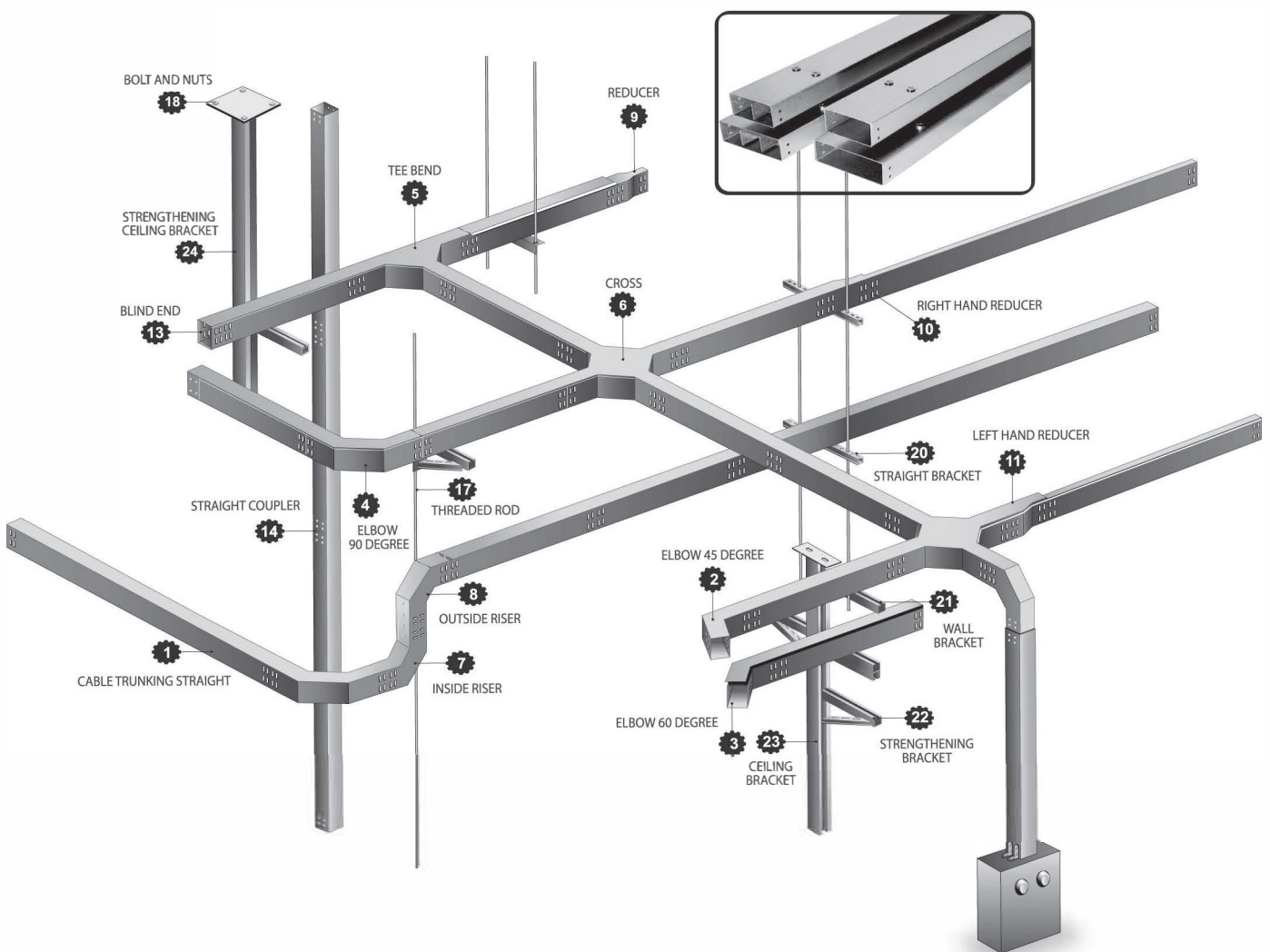
**R-TYPE**



# Cable Trunk System

Metal Trunking has a versatile design to suit the client's requirements for laying any sensitive cables, instrument cables, and light duty electrical cables for industrial and commercial buildings, malls, Airports etc.

Metal Trunking are manufactured from various metals like Aluminum, Pre-Galvanized Steel, Hot Dip Galvanized Steel, Stainless Steel 304 & 316L etc. Other choices of finishes are available like with Powder coated finish of various colors as per the project requirements. Our Trunking covers are fixed with screws for ensuring the rigidity of the system and comes with the various type of fittings and accessories to suit the project site requirements.

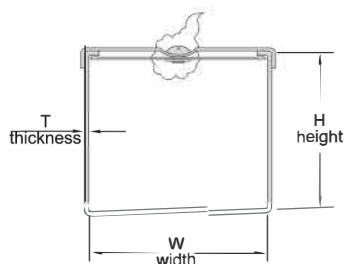
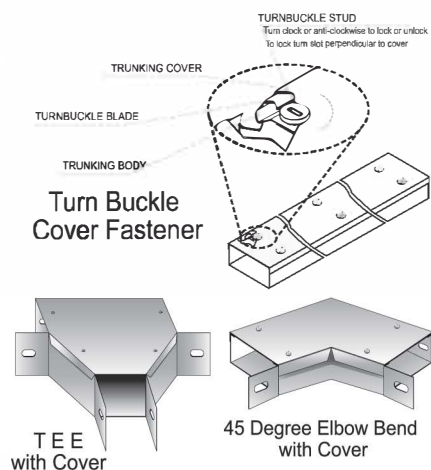
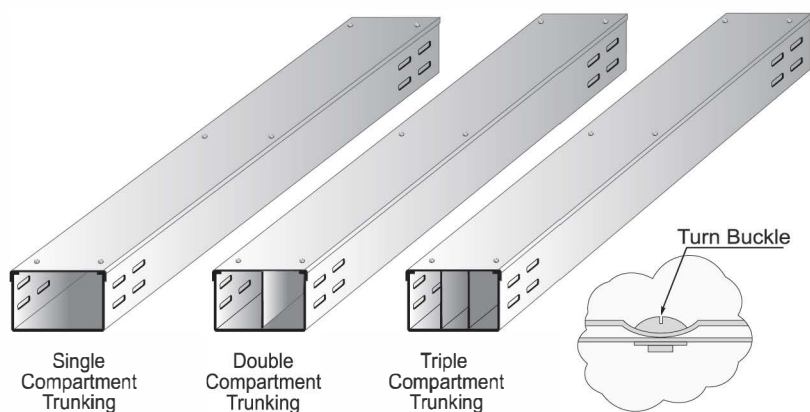




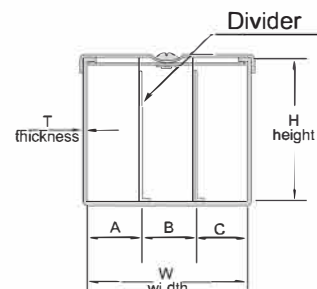
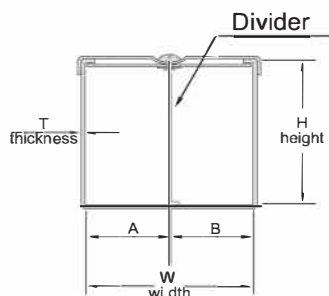
# Cable Trunk Fitting & Accessories

## M A T E R I A L S

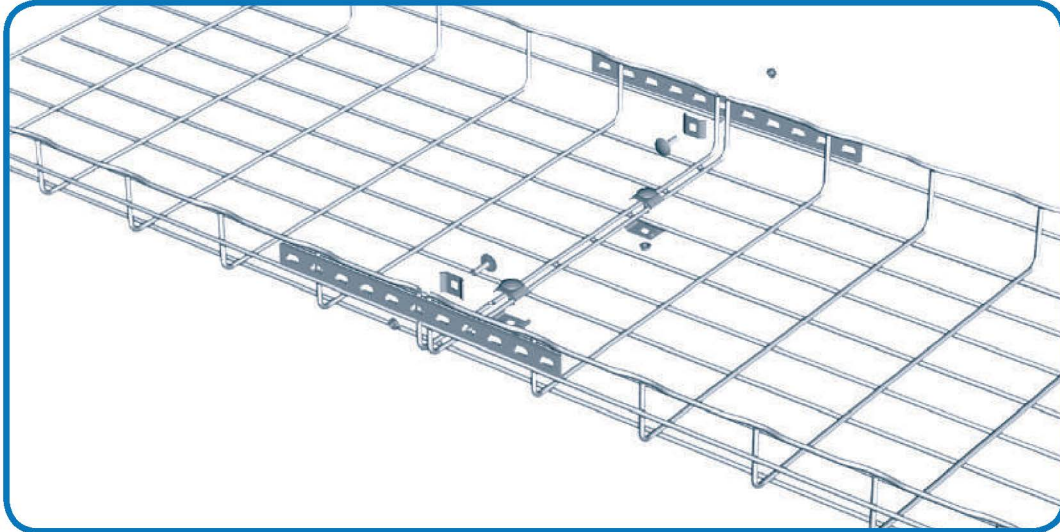
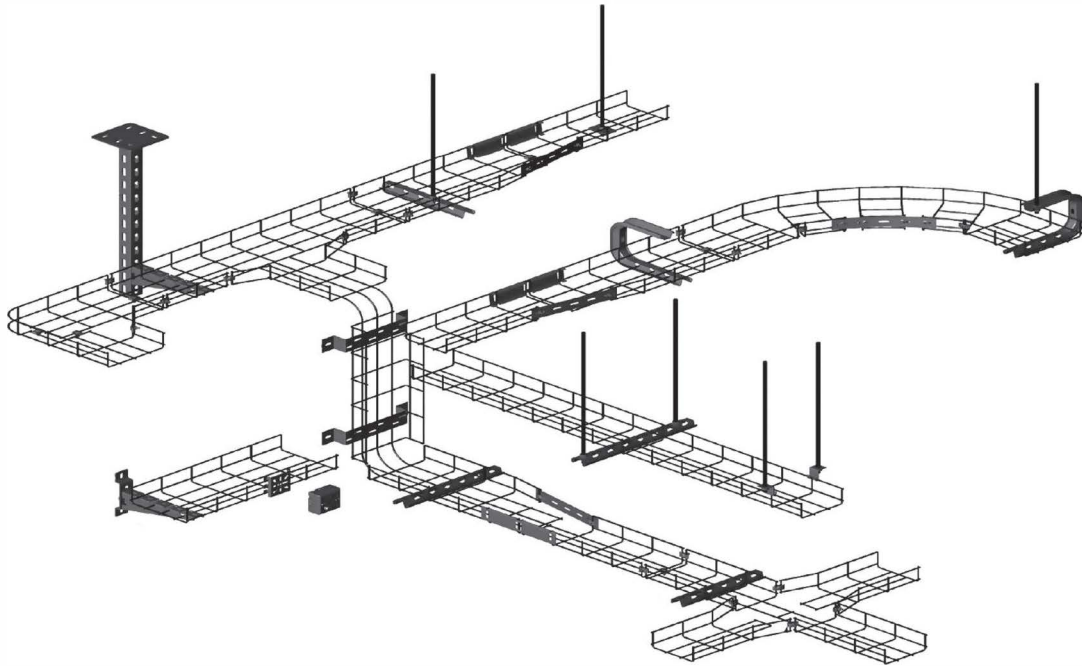
Mill Galvanized Steel		Hot-Dip Galvanized		Aluminium	
1.0 mm		1.2 mm		1.5 mm	
				2.0 mm	



Standard Length in 2.44m / 3m

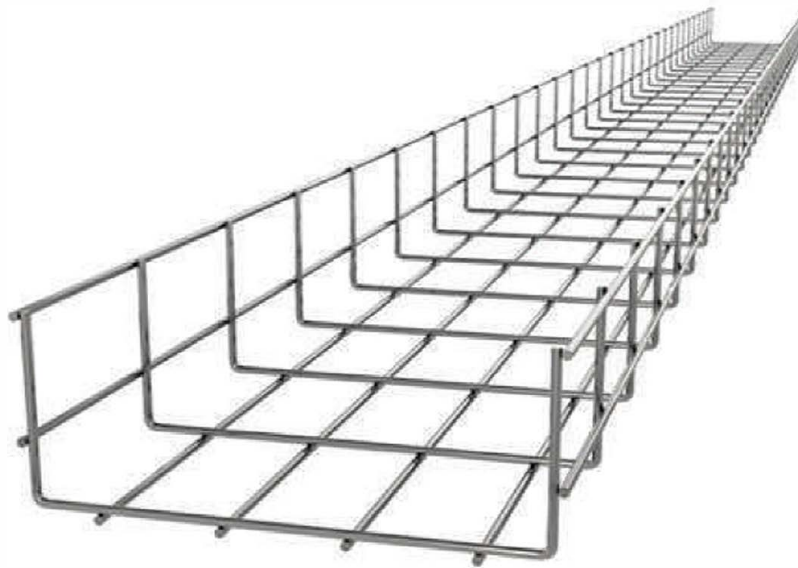


# Wire Basket System



WIRE BASKET system is a flexible, field-adaptable way to manage cables through-out your project. The tray can be cut and bent to the needs of the installer on the jobsite, allowing cable runs to be adjusted as needed. The wide range of sizes offered makes a great choice for everything from a small cable drop to a large trunk of cables. Our tray has the market-preferred "T" weld safety edge, protecting both the cable and the installer during cable installation. It is also UL Classified for providing equipments with enough grounding conductors as per standards.

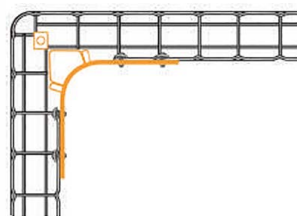
# Wire Basket Fitting & Accessories



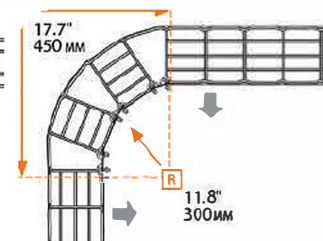
**T - Junctions**



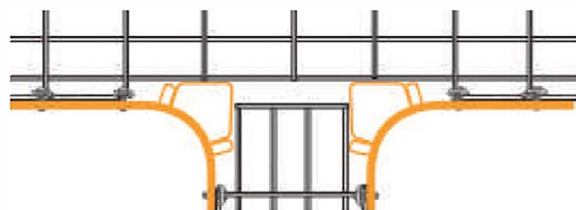
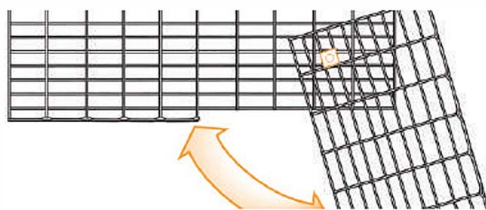
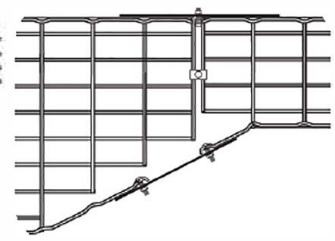
**90 Degree - Bend**



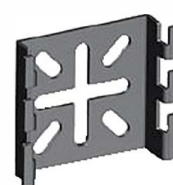
**Sweeps**



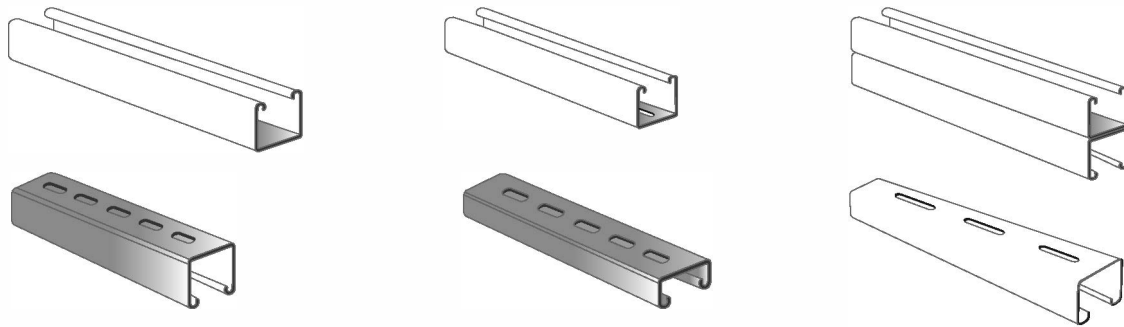
**Reductions**



## Fastener, Bolts & Nuts



# C-Channel Product System



## MILL - HOT DIP GALVANIZED

Thickness			Length
1.5 mm	2.0 mm	2.5 mm	3 m

## TYPE

Plain  
Slotted  
B2B

## SIZE

41x41 mm  
21x41 mm

## C-Channel Accessories



Base Plate w/ Single Fix



Base Plate w/ Double Fix



Base Plate w/ Double Channel



Base Plate w/ Double Channel  
Double Fix

### Channel Nuts POST BASE



Nut without Spring



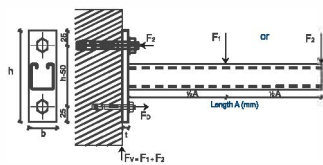
Nut with Short Spring



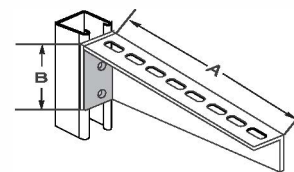
Nut with Long Spring



Hammer Head Bolt



SBC Beam Clamp

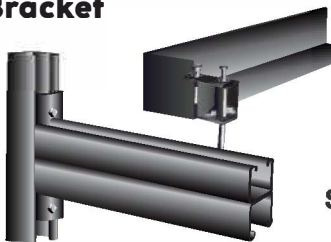


SHELF (Bracket) MS 401

### Cantilevers Arm Bracket



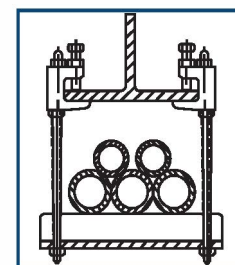
CCH 441 41x21x2.5



CCH421 41x41x2.5 B2B



SBC





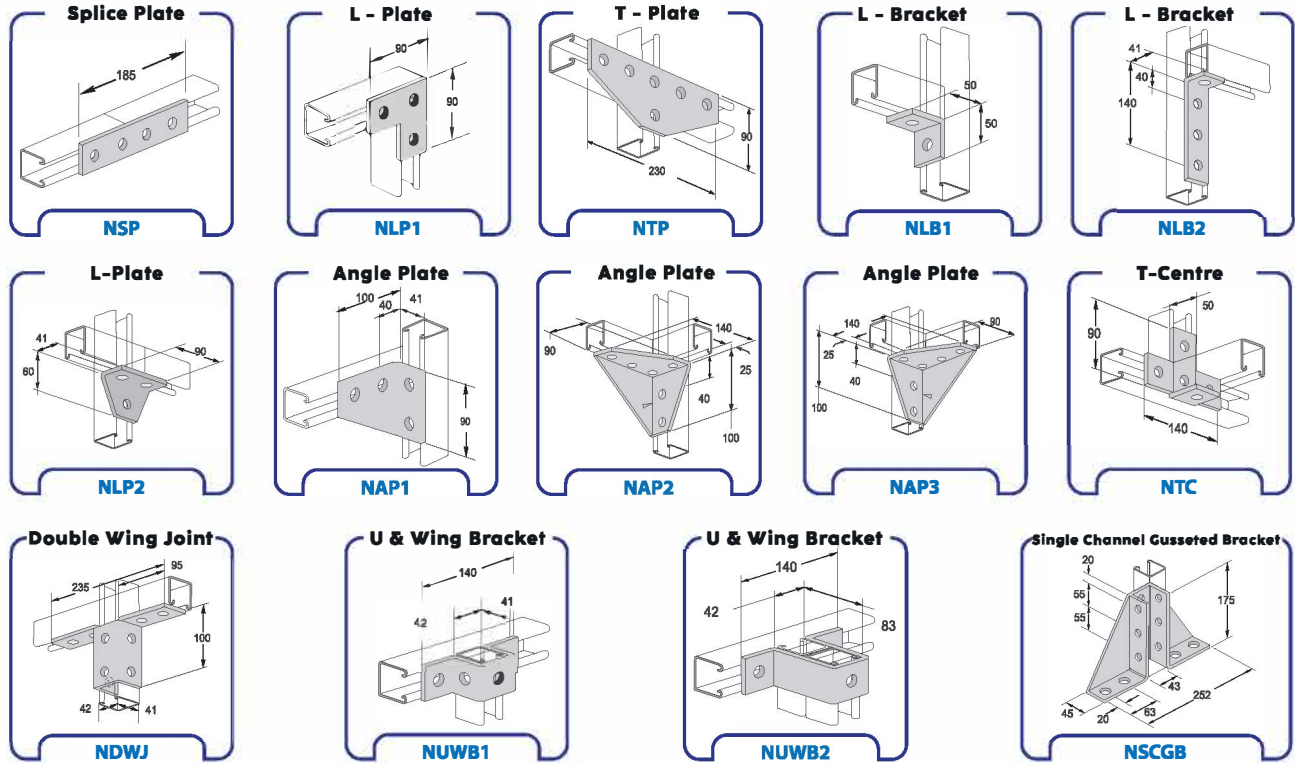
# C-Channel Fitting

This Part Offer a Full Section of Fittings and Accessories to complete Metal Framing System.

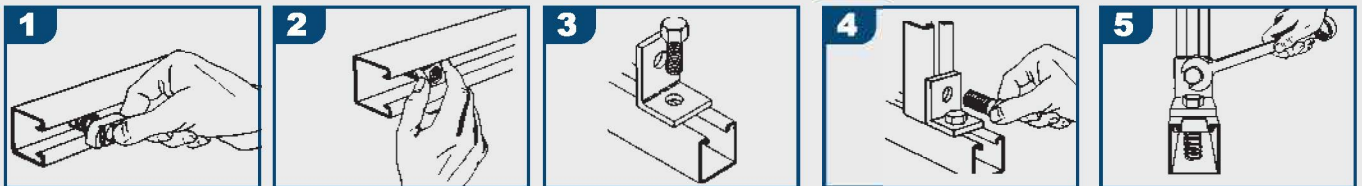
STANDARD FINISHES : Hot Dip Galvanized, Fitting Specifications

(unless noted) : Hole Size 13.0 mm Diameter; Hole Spacing 20.0 mm end

and 48.0 mm on center ; Width 41.0 mm ; Thickness , 6.0 mm (Order hardware sepratyly).

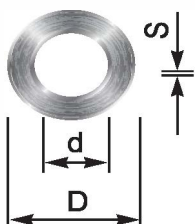


## Strong, Easy, Fast, Economical and Adjustable ...



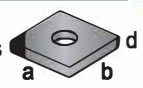
## Fastener, Bolts & Nuts

Washers (SRW)  
DIN 440  
DIN 9021

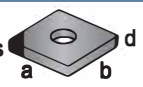


Square Washers (SSW)

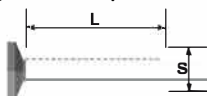
S S W 40/40  
for all channels  
41/21 Series



S S W 41/41  
for all channels  
41/41 Series



Hexagon Rod Coupler with Grade Hole



Connector Threaded for ROD Grade  
DIN 975, ASTM A36



Roofing Bolts  
(SRB)



Carriage Bolts  
(STC)



Hexagon Nuts



# Covers

Cable Tray covers shall be considered for any of the following purposes:

- Protection from falling objects or debris, as may occur beneath personnel walkways.
- Shielding from ultraviolet rays of the sun and guarding against other weathering elements.
- Minimizing accumulation of foreign contaminants such as ash or other industrial deposits.
- Protection of cables and personnel where a riser tray penetrates a floor or grating.

## Solid Cover / 2000



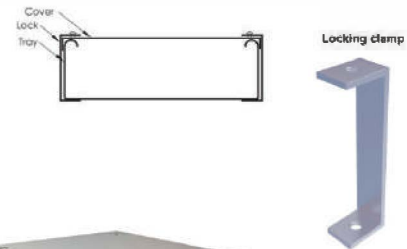
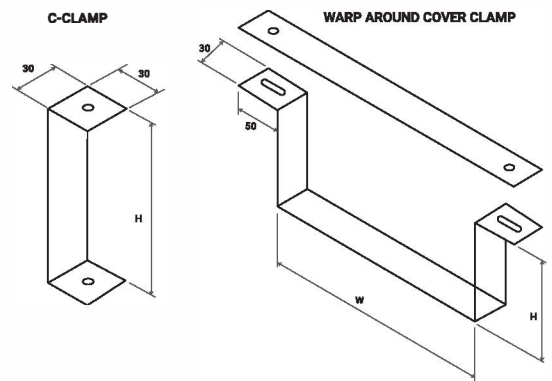
## Ventilated Cover / 2010



### Covers Side Height Types:

- Solid without flange
- Solid with flange
- Ventilated without flange
- Ventilated with flange

## Ladder Cable Tray Covers with Locking Clamp 2100



**Note -** Cable covers are supplied with or without a 15 mm down turned flange. Straight section covers are furnished 3000 mm long. All fitting covers are furnished in solid design only.

## Abbreviations

Material	Code	Type	Code	Thickness	Code	Lengths	Code
Stainless Steel	SS	Straight	STR	Sheet - 1.0 mm	1.0	2.4	A
Pre-Galvanized	PG	Inside Return Flange	IRF	Sheet - 1.20 mm	1.2	3	B
Aluminium	AL	Outside Return Flange	ORF	Sheet - 1.50 mm	1.5	3.6	C
Hot-Dip Galvanized	HD	Inside C-Type	ICT	Sheet - 2.0 mm	2.0		
Electro galvanization	EG	Outside C-Type	Oct	Sheet - 5.0 mm	5.0		
Powder Coated	PC	C-Type for trunking	C				
		Z-Type for trunking	Z				

# Order Codes

## Cable Trays

**LIGHT DUTY - 1.00 mm Thickness**  
**NLCT - 25 ( Side Height 25 mm )**  
**Length - 2400 mm / 3000 mm**  
**Width : 50 - 300 mm**

Item code	Cable Tray	Support Distance (m)	Load kN/m
NLCT-A0	LCT 50 - 25	1.00	0.65
	width (w): 50 mm	1.20	0.37
		1.50	0.18
		2.00	0.07

### Description

Item number/code	Width	Side Height	Thickness	Side / Flange type	Length	Radius	Material	Finish
NLCT-A0	50	25	1.00	ORF	2.4		PG	PC
Light Duty Cable Tray				Outside Return Flange			Pre galvanized	Powder coat

### Code - Category

Item number/code	Width	Side Height	Thickness	Side / Flange type	Length	Radius	Material	Finish
NLCT-A0			1.00	ORF	A	Not Required	PG	PC
See Material codes table								

**Example Order Code : NLCT-A0-1.00-ORF-A-PG**

## Cable Ladders (Aluminium)

**Swaged Tubular Rung-NEMA Class A (52 kg/m by 3.0m) & 8A (95 kg/m by 2.40m)**  
**Side Rail : A 1**  
**Height : 110 mm**  
**Load Depth : 82 mm**  
**Rung - Spacing : 229 mm**

Nem Code	Side Rail	Width	Support Dist	Load	Deflection		Rung Details
	NEMA - CLASS - 12A	(mm)	(m)	kn/m	RUNG (mm)	RAIL (mm)	
NCL-A1-00	110 x 20 x 2.0	150	2.40	1.35	0.02	7.96	Tubular Rung: 25 x 1.5 mm
			3.00	0.66	0.01	9.95	
			3.70	0.32	0.00	12.22	
			4.90	0.10	0.00	16.10	

### Code Description

Item number/code	Width	Side Height	Thickness	Side / Flange type	Length	Rung	Material	Finish
NCL-A1-00	150	20	2.00	Z/C/R	2.40	TR-25x1.5	HD	PC
Cable Ladder - Aluminium							See Material codes table	

### Code Category

Item number/code	Width	Side Height	Thickness	Side / Flange type	Length	Rung	Material	Finish
NCL-A1-00			2.00	Z	A	TR-25x1.5	HD	PC
				Z-Type Flanges for side rail			See Material codes table	

**Example Order Code : NLCT-A0-1.00-ORF-A-PG**

## Cable Ladders (Steel)

Swaged Tubular Rung - STEEL S235 JRG2 NEMA Class 12 A (74 kg/m by 3.70m)

Side Rail : S1

Height : 105 mm

Load Depth : 75 mm

Rung - Spacing : 229 mm

Item Code	Side Rail	Width	Support Dist	Load	Deflection	Rung Details	
	NEMA - CLASS - 12A	(mm)	(m)	KN /m	RUNG (mm)	RAIL (mm)	
NSL-S1A	105 x 20 x 2.0	150	2.40	2.72	0.01	6.32	Tubular Rung: 25 x 1.5 mm
			3.00	1.74	0.01	9.99	
			3.70	0.89	0.00	12.22	
			4.90	0.35	0.00	15.33	

### Code Description

Item number/code	Width	Side Height	Thickness	Side / Flange type	Length	Rung	Material	Finish
NSL-S1A	105	20	2.00	Z/C/R	3.00	TR-25x1.5	HD	PC
Steel ladder							See Material codes table	

### Code Category

Item number/code	Width	Side Height	Thickness	Side / Flange type	Length	Rung	Material	Finish
NSL-S1A			2.00	C	B	TR-25x1.5	HD	PC
				C-Type Flanges for side rail			See Material codes table	

Example Order Code : **NSL-S1A-2.00-C-B-TR-25x1.5HD**

## C-Channel Cable Ladders ( Steel )

Swaged Tubular Rung - STEEL S235 JRG2

NEMA Class 12 A (74 kg/m by 3.70m)

Side Rail : C1

Height : 105 mm

Load Depth : 75 mm

Rung - Spacing : 229 mm

Item Code	Side Rail	Width	Support Dist	Load	Deflection		Rung Details
	NEMA - CLASS - 12A	(mm)	(m)	KN/m	RUNG (mm)	RAIL (mm)	
NCCL-C1A	105 x 20 x 2.0	150	2.40	2.69	0.01	6.33	C-Ch - Rung : 41 x 21 x 1.5 mm
			3.00	1.70	0.01	9.96	
			3.70	0.86	0.00	12.28	
			4.90	1.31	0.00	15.13	

### Code Description

Item number/code	Width	Side Height	Thickness	Side / Flange type	Length	Rung	Material	Finish
NCCL-C1A	105	20	2.00	Z/C/R	3.00	41 x 21 x 1.5 mm	HD	PC
C Channel Ladder							See Material codes table	

### Code Category

Item number/code	Width	Side Height	Thickness	Side / Flange type	Length	Rung	Material	Finish
NCCL-C1A			2.00	R	B	41 x 21 x 1.5 mm	HD	PC
				C-Type Flanges for side rail			See Material codes table	

Example Order Code : **NCCL-C1A-2.00-R-B-TR-41x21x1.5HD**



## Cable Trunking

For Cable Trunking - Length - 2440 mm / 3000 mm

Item number/code	Width	Side Height	Thickness	Side / Flange type	Length	Material	Finish
NCTR-1C-A	100	50	1.5	Inside / Outside	3.00	HD	PC
NCTR-2C-A						See Material codes table	
NCTR-3C-A							
Cable Trunk - No of Compartments							

### Code Category

Compartment	Width	Side Height	Thickness	Side / Flange type	Length	Material	Finish
	100	50	1.0	Inside / Outside	3.00	HD	PC
Single Compartment	NCTR-1C-A		1.0	O	B	HD	
Double Compartment	NCTR-2C-A		1.0	O	B	HD	
Triple Compartment	NCTR-3C-A		1.0	O	B	HD	

Example Order Code : **NCTR-1C-A-1.0-O-B-HD**

**NCTR-2C-A-1.0-O-B-HD**

**NCTR-3C-A-1.0-O-B-HD**

## Basket Tray

Side Height - 55 ( mm )

Item number/code	Width	Side Height	Thickness	spacing	Length	Material	Finish
NBT-A	50	55	4	100	2.40	SS	
Basket Tray						See Material codes table	

### Code Category

Width	Side Height	Thickness	spacing	Length	Material	Finish
NBT-A		4	10	A	SS	

Example Order Code : **NBT-A-4.00-10-A-SS**

SAMPLE CODES FOR ACCESSORIES				
Accessories	Width	Side Height	Thickness	Example Order Code
Horizontal Bend 45° - NHB 45°	50	50	1.2	NHB-45°-A
OUTSIDE RISER BEND 45° - ORB 45°	50	50	1.2	ORB-45°-A
Tee Branch - NTB	50	50	1.2	NTB-A
Intersection - NI	50	50	1.2	NI-A
Reducer - NR	100-50	25	1.5	NR-A

**Note:**

- Please request Technical Data for all items and accessories..
- Any other standard size and finish available on request