

شركة نبراس المعدن للصناعة
NIPRAS METAL INDUSTRY Co.

CABLE MANAGEMENT SYSTEM

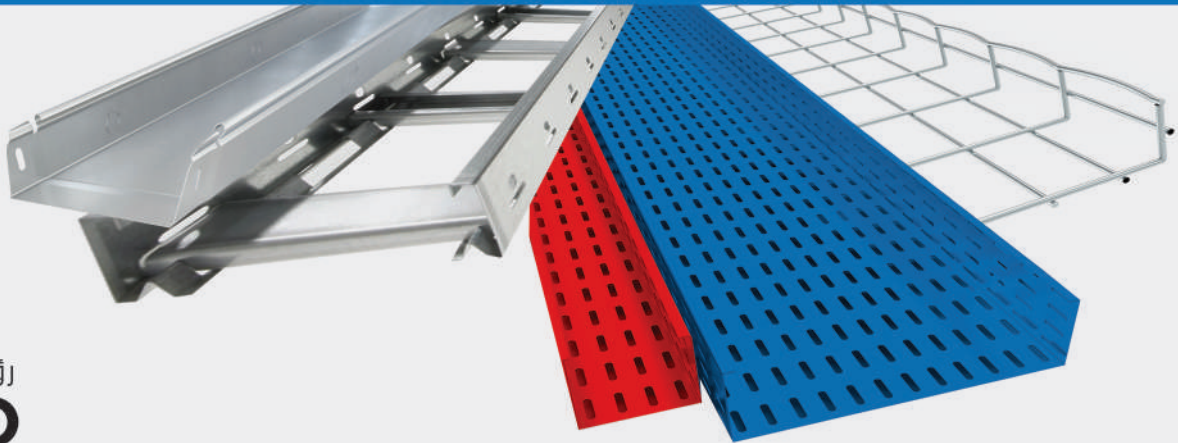
Cable Tray

Cable Ladder

Cable Trunk

Basket Tray

C-Channel



رؤية
VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



NMG NIPRAS
METAL GROUP



شركة نبراس المعدن للصناعة NIPRAS METAL INDUSTRY Co.

Introduction

NIPRAS METAL GROUP (NMG)

- Established in the year 2010 with high quality Manufacturing & Trading expertise with 3 companies under the umbrella -

1. NIPRAS METAL INDUSTRY COMPANY (NMIC)
2. NIPRAS METAL TRADING COMPANY (NMTC)
3. NIPRAS METAL CONTRACTING Est. (NMCE)

We are a Saudi based company with our team in major cities across the kingdom with our headquarters in RIYADH providing the best & professional solutions in construction & architectural industry. Intuitive creativity, precise technical assistance and reputed interest in our client marked us as one of the leading Industries throughout the KINGDOM and other GCC countries.

We have a plan to build the successful businesses for today's economy. We aim at manufacturing our products to not only have a beautiful appearance, but also that the customers perceive something of great intrinsic value when they touch it. We constantly strive to create future products that will stimulate the customer's senses to bring about joy and excitement each time the product is used.

Our success will be validated when the end users use the product and "their heart leaps for joy" and "they are deeply moved". We will create a future without limits through valued manufacturing. We will be responsible for planning, development, and manufacturing and be considered as the only manufacturer of its kind. We have earned great respect as a manufacturer and trader by serving the best to our valued customers.

1. Accountability

We accept responsibility for our work products and services. Upholding the highest standards evaluating for measuring our results against stated performance for our work with relevance, credibility and timelessness.

2. Teamwork

Our success depends on working together and fostering an inclusive and mutually supportive environment.

Our work-friendly for environment encourages collaboration, innovation, flexibility and figure the integration of resources.



Our Strength Factors

3. Communication

We clarify expectations up front and communicate openly, honestly and accurately. We look for ways to improve our ways and for our work products by seeking giving and use both praise and constructive feedback.

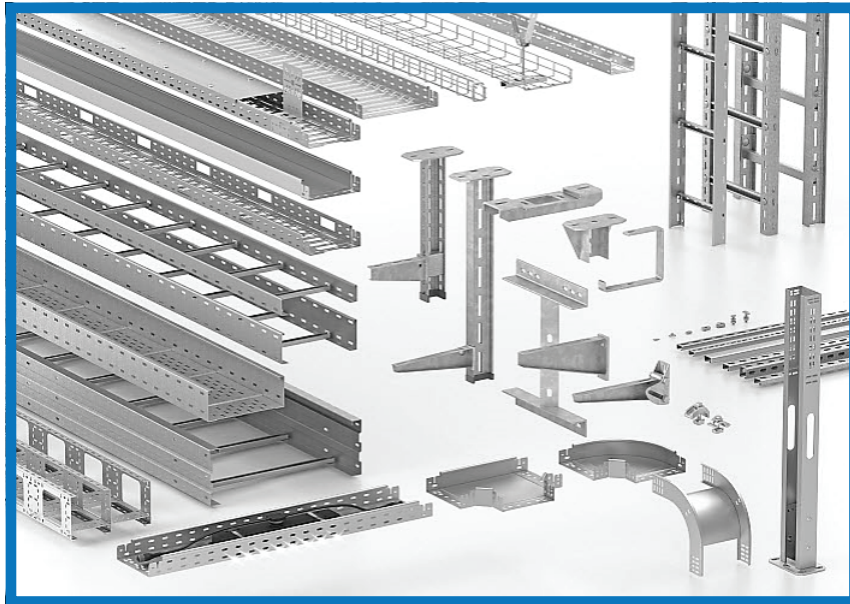
4. Respect

We promote diversity and equal opportunity throughout other organizations. We value and respect the views of our clients.

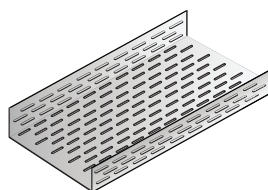


Cable Management System

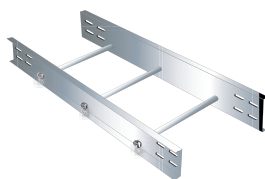
There are a wide variety of containment systems available to organize and store cables within an installation. They tend not to be used exclusively for a particular type of wiring system, and the containment system chosen is often as much decided by the budget and practical considerations of the building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



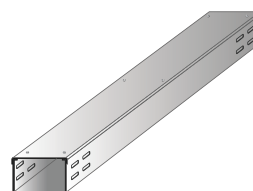
NMIC manufacture a complete range of cable management systems for any large stock installation of standard cable trunking, tray and basket bespoke one of the solutions designed and manufactured in house taking note of all international & GCC standards.



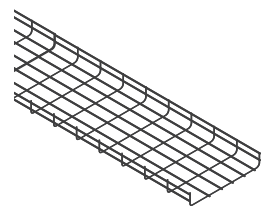
Cable Tray



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 I
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-Di pp 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

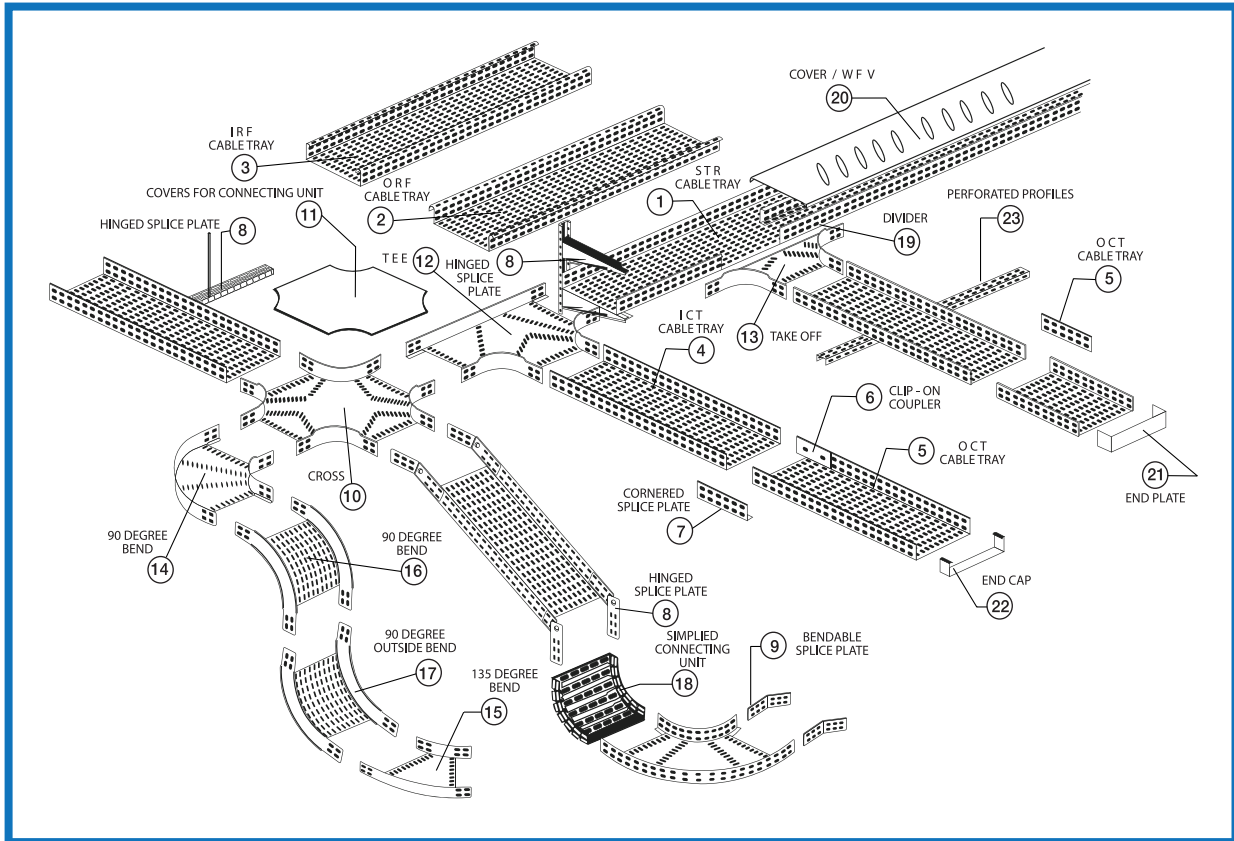
**Note: All outdated standards / codes are replaced with new/ latest versions and the final product shall comply with the latest version*



Cable Tray System

Nipras 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.

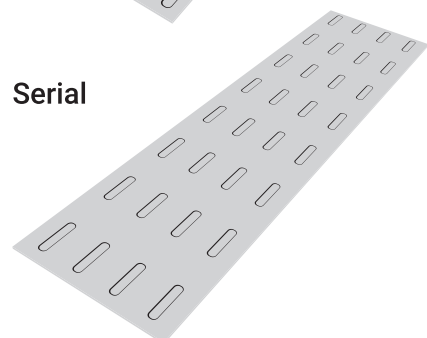
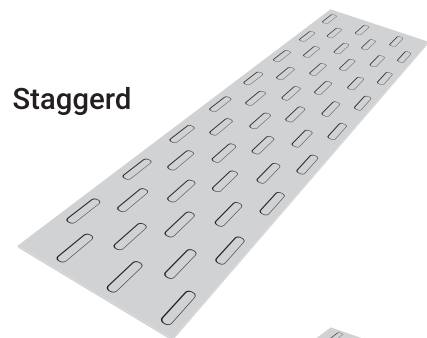


Product Range

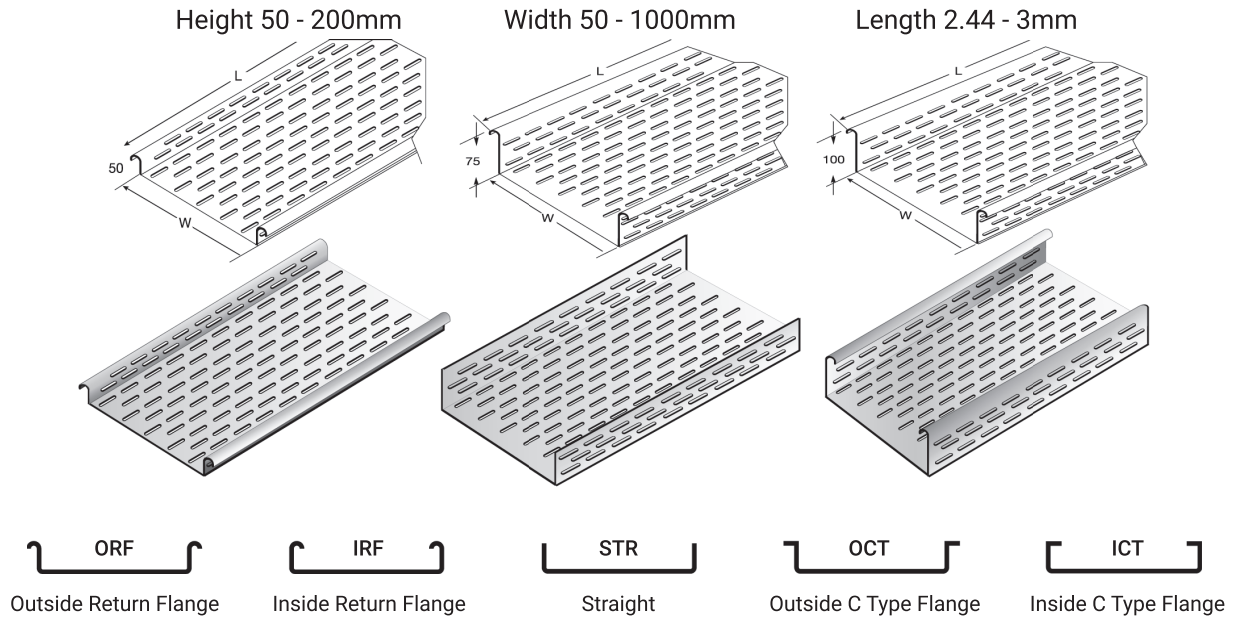
- ▶ **Light Duty**
LCT (1.00mm Thickness)
- ▶ **Medium Duty**
HCT (1.20mm Thickness)
- ▶ **Heavy Duty**
HCT (1.50mm Thickness)
- ▶ **Very Heavy Duty**
VCT (2.00mm Thickness)

** Custom Sizes Also Available*

Types Of Perforation

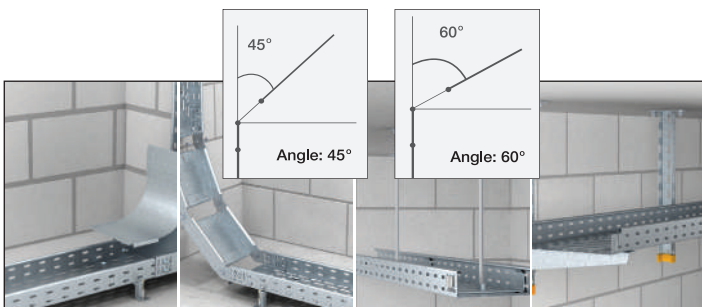
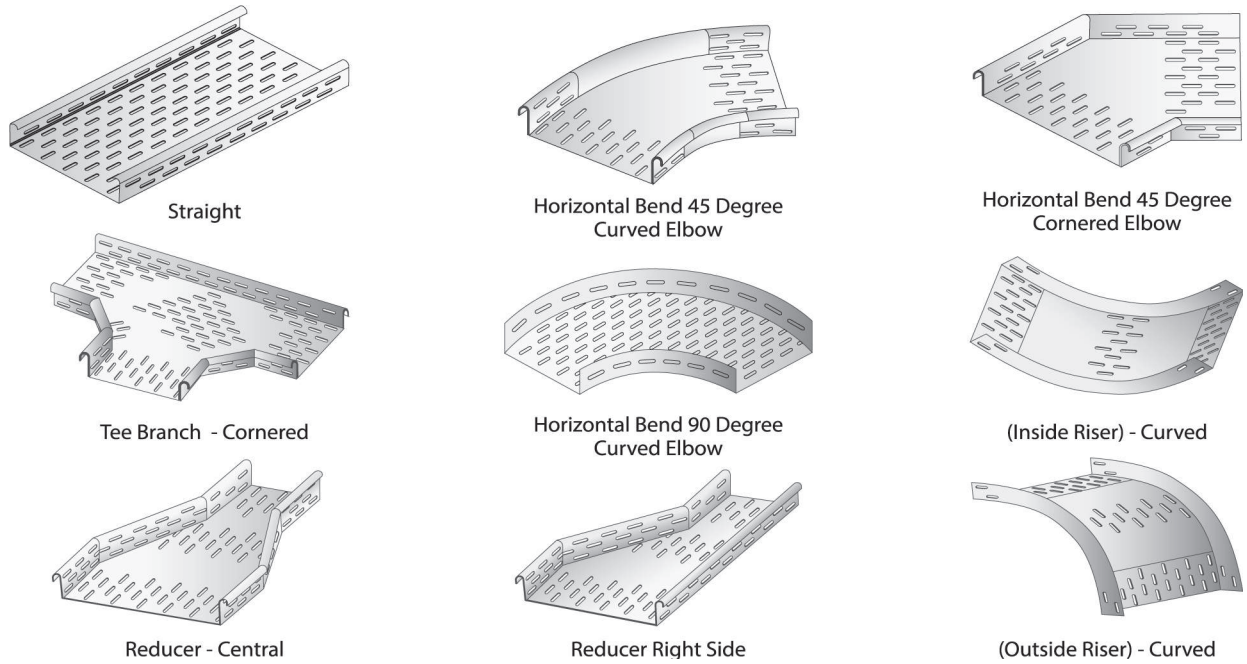


Cable Tray With Different Dimensions

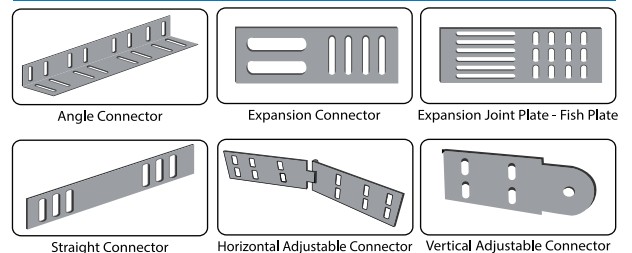


Cable Tray Fitting & Accessories

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.

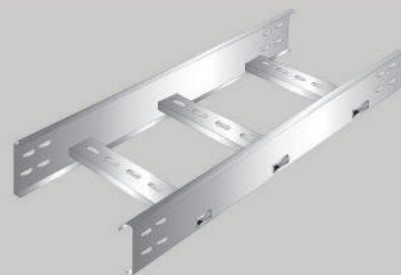
In specifying NIPRAS cable ladder, you will be choosing a highly versatile solution which delivers quality and performance over the long term.



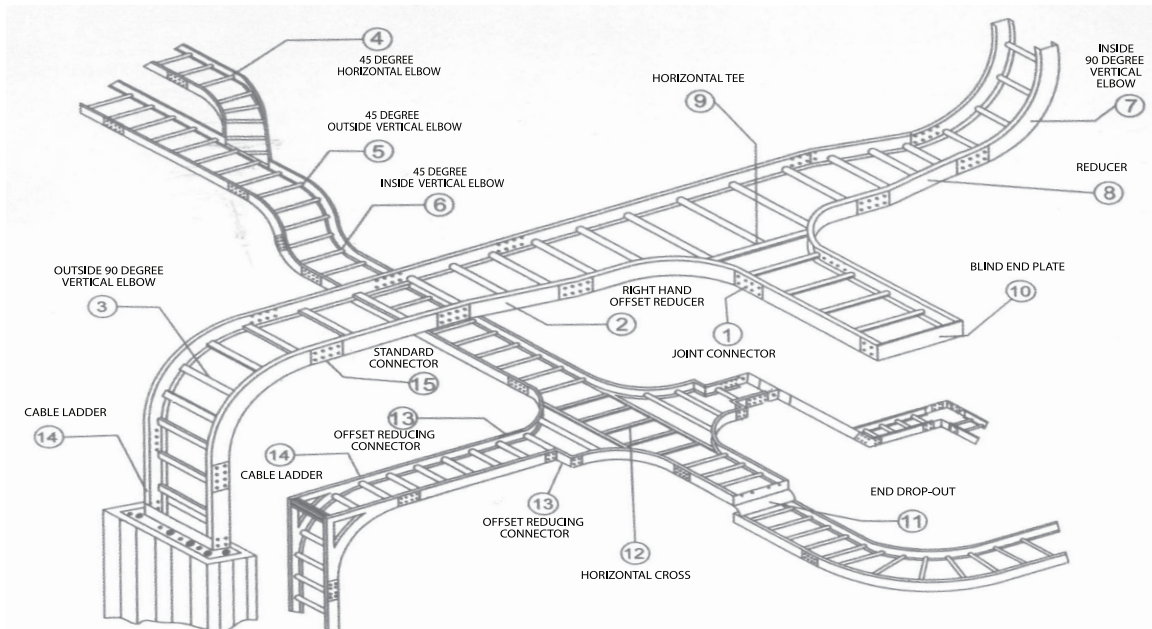
Round Tubular / Swaged or Welded



Plain Channel (STEEL)



Slotted Channel (STEEL)



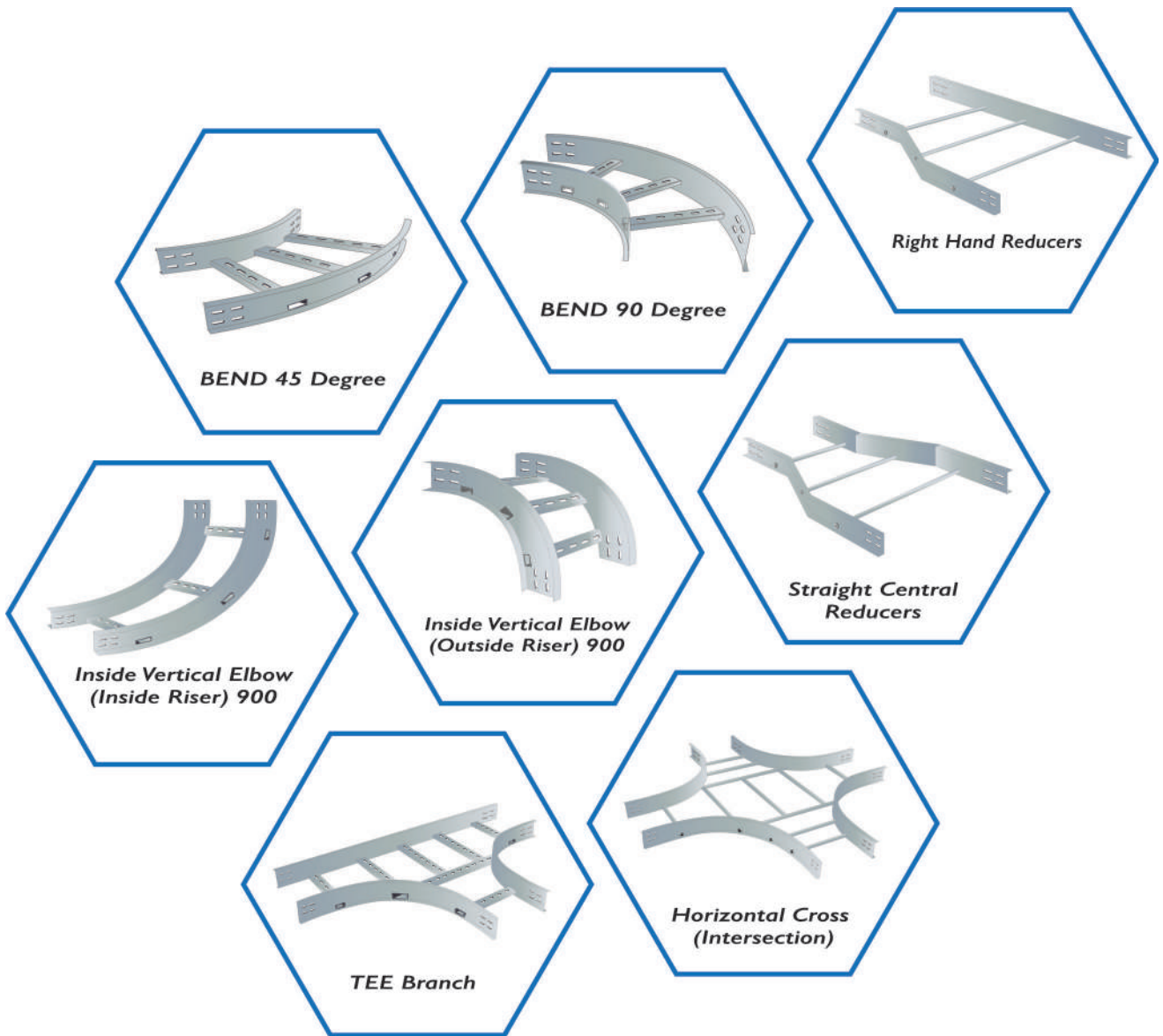
Materials Type

Aluminium

Steel

Stainless Steel

Cable Ladder Fitting & Accessories



Z-TYPE



C-TYPE



R-TYPE

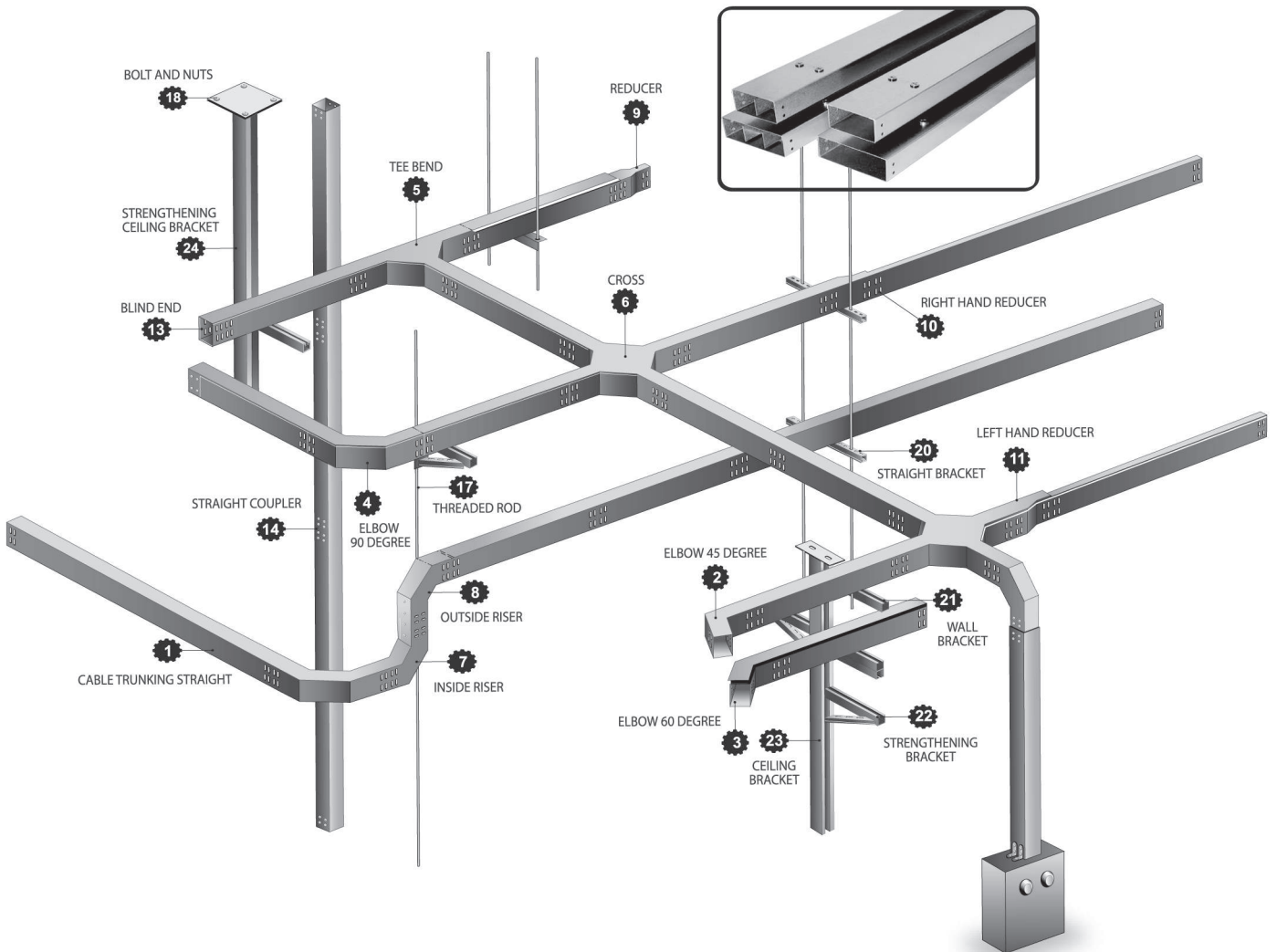


As per Request

Cable Trunk System

NIPRAS 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.

NIPRAS 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

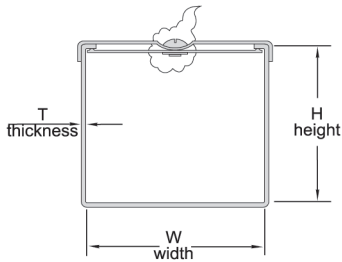
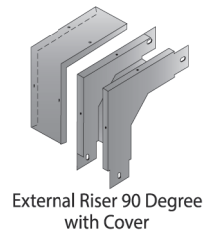
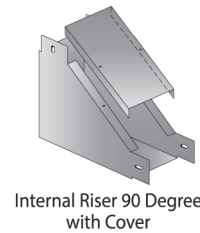
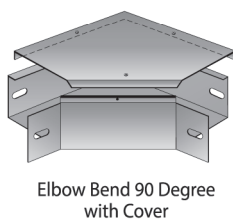
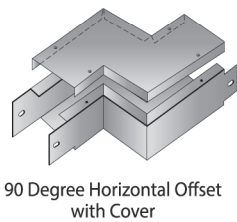
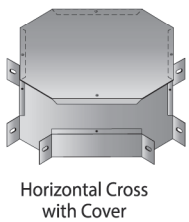
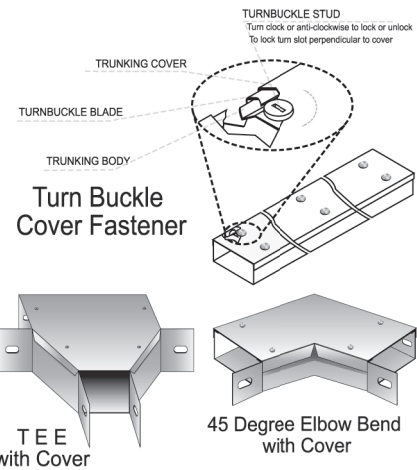
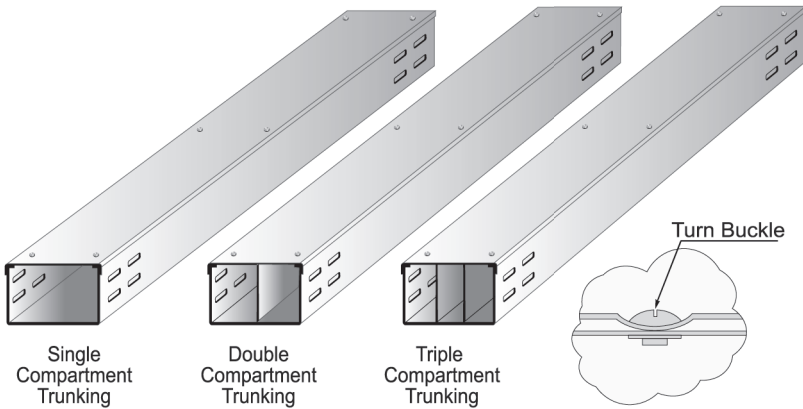
Aluminium

1.0 mm

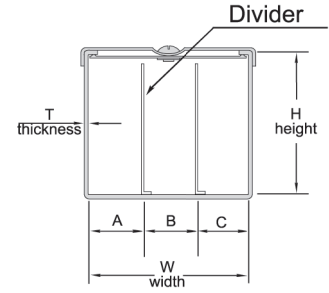
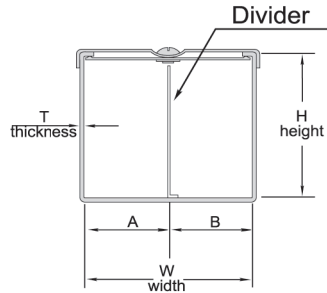
1.2 mm

1.5 mm

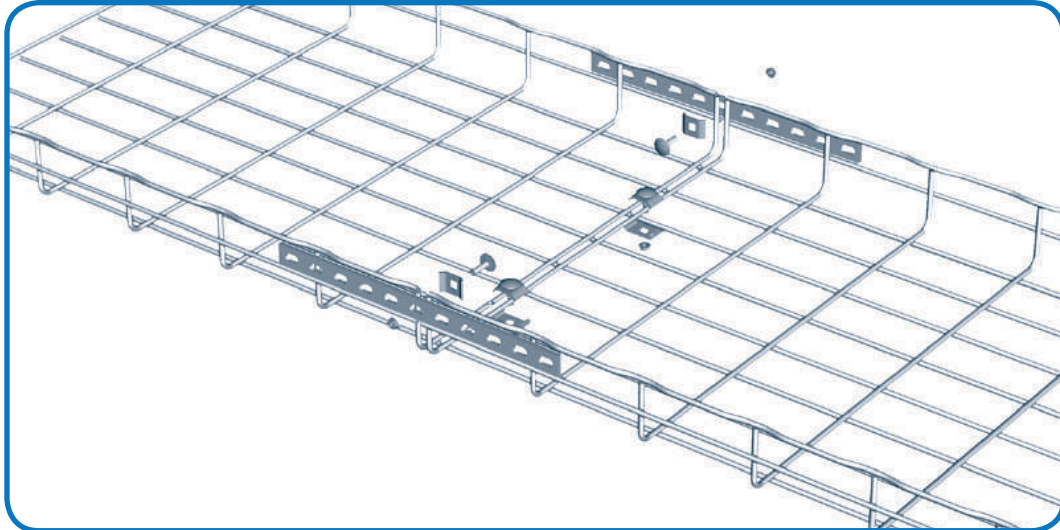
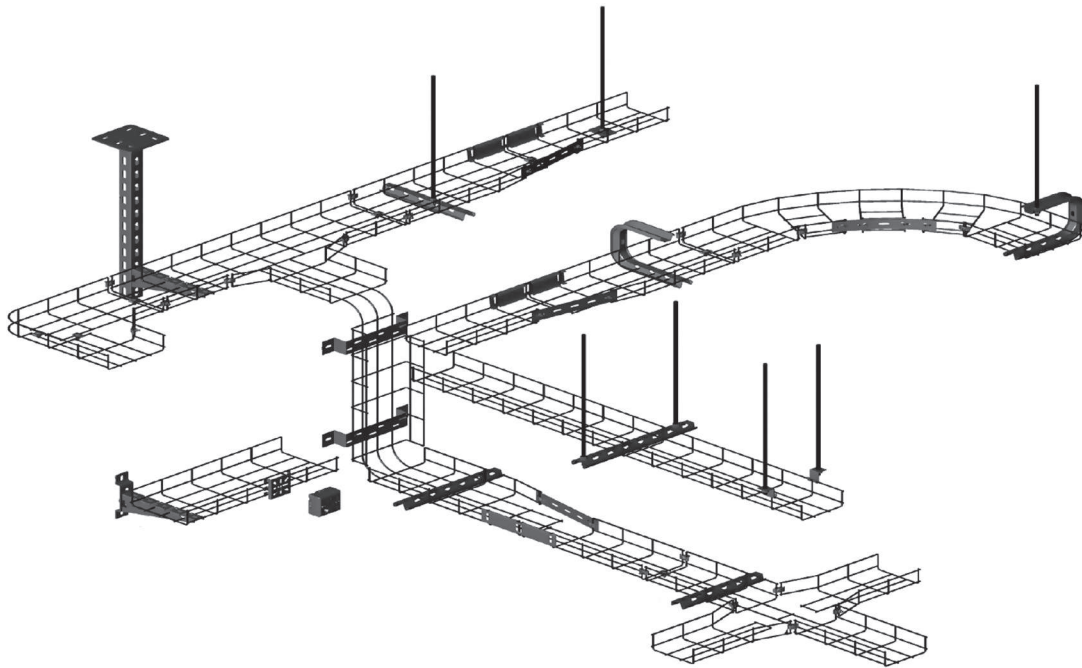
2.0 mm



Standard Length in 2.44m / 3m

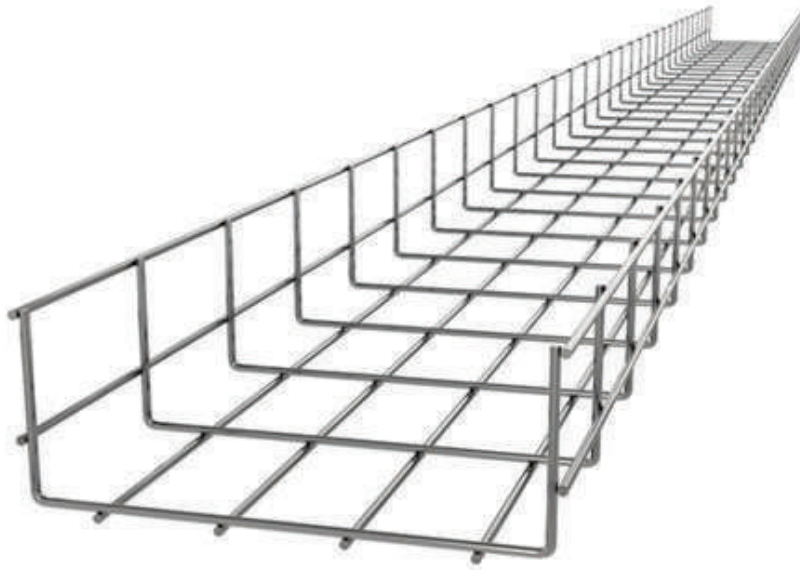


Wire Basket System

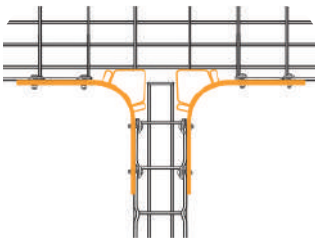


NIPRAS WIRE BASKET system is a flexible, field-adaptable way to manage cables throughout your project. The tray can be cut and bent to the needs of the installer on the jobsite, allowing cable runs to be adjusted as needed. The wide range of sizes offered makes NIPRAS a great choice for everything from 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. NIPRAS is also UL Classified for providing equipments with enough grounding conductors as per standards.

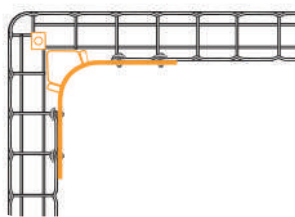
Wire Basket Fitting & Accessories



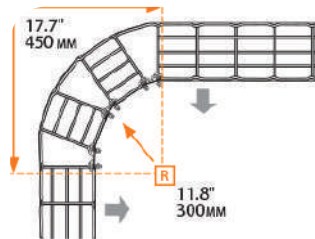
T - Junctions



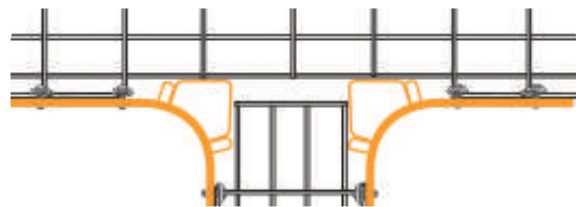
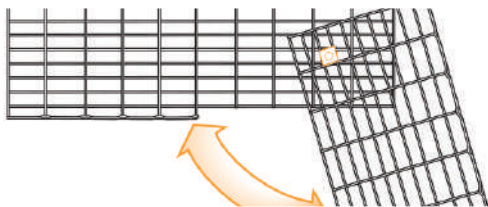
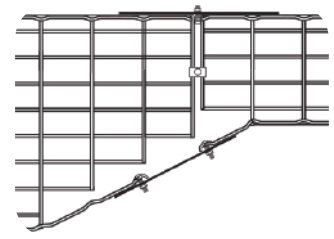
90 Degree - Bend



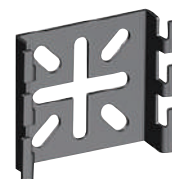
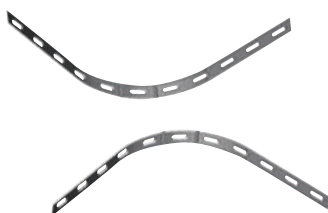
Sweeps



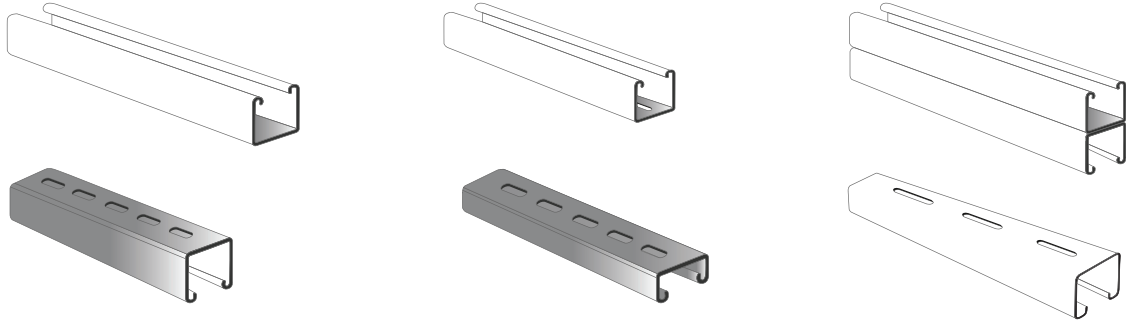
Reductions



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	SIZE
Plain	41x41 mm
Slotted	21x41 mm
B2B	

C-Channel Accessories



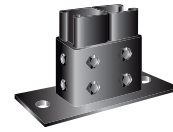
Base Plate w/ Single Fix



Base Plate w/ Double Fix

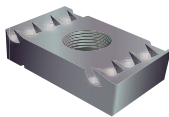


Base Plate w/ Double Channel

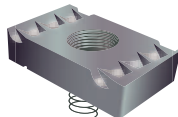


Base Plate w/ Double Channel Double Fix

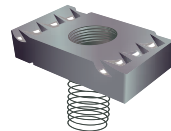
Channel Nuts POST BASE



Nut without Spring



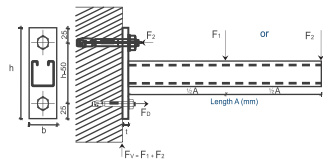
Nut with Short Spring



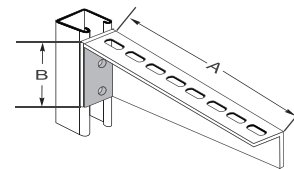
Nut with Long Spring



Hammer Head Bolt

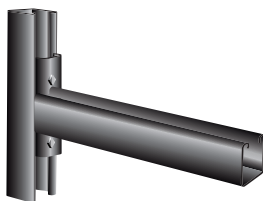


SBC Beam Clamp

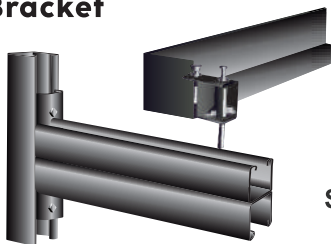


SHELF (Bracket) MS 401

Cantilevers Arm Bracket



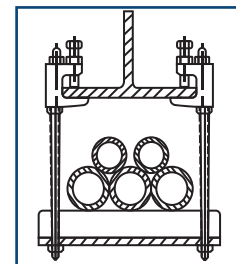
CCH 441 41x21x2.5



CCH421 41x41x2.5 B2B



SBC



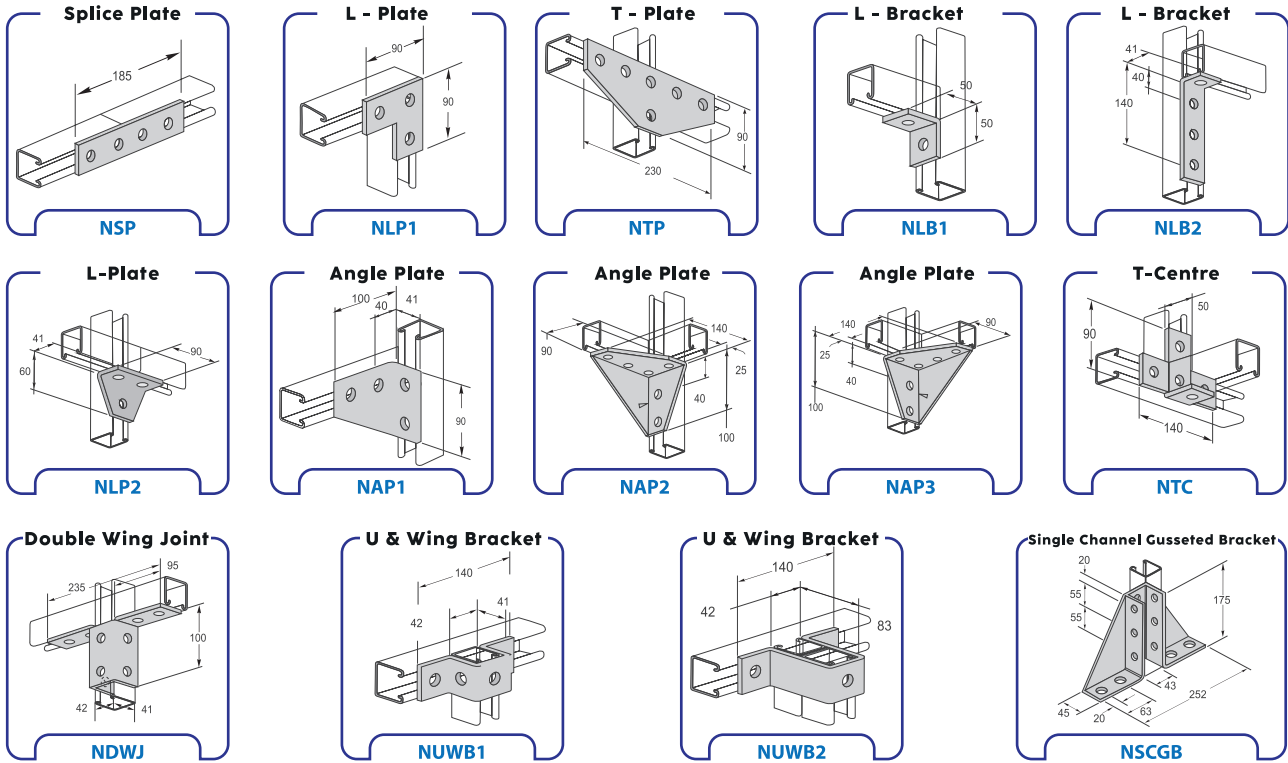
C-Channel Fitting

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

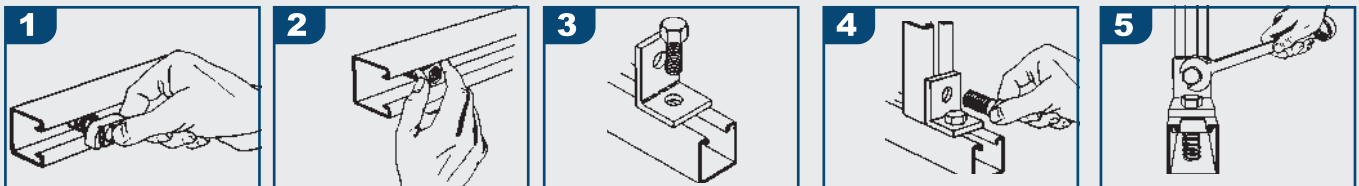
STANDARD FINISHES : Hot Dip Galvanized, Fitting Specifications

(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 seprately).

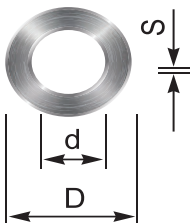


Strong, Easy, Fast, Economical and Adjustable ...



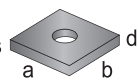
Fastener, Bolts & Nuts

Washers (SRW)
DIN 440
DIN 9021

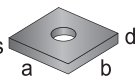


Square Washers (SSW)

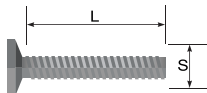
S S W 40/40
for all channels
41/21 Series



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



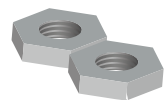
Roofing Bolts (SRB)



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.

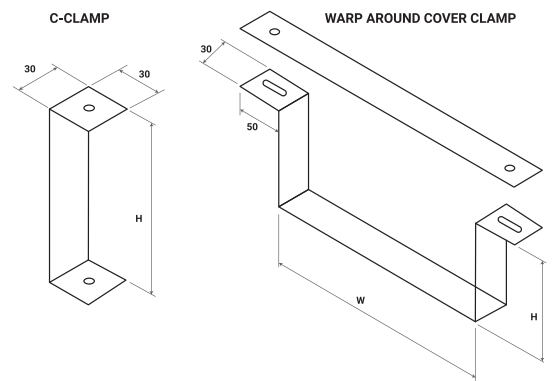
Solid Cover / 2000



Ventilated Cover / 2010

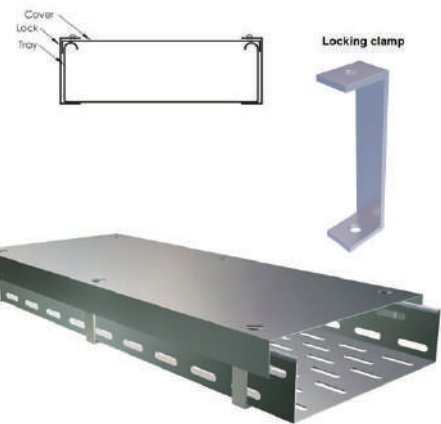


Ladder Cable Tray Covers with Locking Clamp 2100



Covers Side Height Types:

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



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
Nipras 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

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

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
Nipras 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
							See Material codes table	
				Z-Type Flanges for side rail				

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 (mm)	Support Dist (m)	Load KN /m	Deflection RUNG (mm)	Rung Details			
	NEMA - CLASS - 12A					RAIL (mm)			
NSL-S1A	105 x 20 x 2.0	150				2.40	2.72	0.01	6.32
						3.00	1.74	0.01	9.99
						3.70	0.89	0.00	12.22
						4.90	0.35	0.00	16.33

Tubular Rung: 25 x 1.5 mm

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
Nipras 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 (mm)	Support Dist (m)	Load KN/m	Deflection RUNG (mm)	Rung Details			
	NEMA - CLASS - 12A					RAIL (mm)			
NCCL-C1A	105 x 20 x 2.0	150				2.40	2.69	0.01	6.33
						3.00	1.70	0.01	9.96
						3.70	0.86	0.00	12.28
						4.90	1.31	0.00	16.13

C-Ch - Rung : 41 x 21 x 1.5 mm

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
Nipras 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							
Nipras 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	
Nipras 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

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NMIC is fully committed to a quality policy which ensures delivery of its products and services “defect free on time”. NMIC provides quality management, co-ordination, production and processing, manufacture, and installation services throughout KSA and sometimes outside KSA. Since the establishment, NMIC is primarily engaged in providing Architectural Engineering solutions in the market and aims to achieve a high standard of production and trading services.

- NMIC possess the policy to:
- Manufacture and supply products which fully confirm to the customer’s requirements, relating to quality, reliability, and delivery.
- Use the company’s considerable experience and knowledge in the production of standard products to assist customers in the cost-effective design and development of both existing and new products.
- Ensure that suppliers of raw materials, goods and services confirm to all requirements and are of a consistent high quality, to enable the company in achieving its commitments to all customers.
- Recognize that the responsibility for quality lies with all employees of the company and hence to stimulate and encourage interest and pride in their work.
- Hold frequent Quality Management System review meetings to enable continual review of the suitability of the Quality policy and all aspects of the Quality Management System.

These requirements of Quality Policies are compared to the requirements of ISO 9001:2015- Quality Policy. NMIC is committed to achieve our customer satisfaction by the use of quality procedures which will be operated to meet or exceed the requirements of ISO 900:2015





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