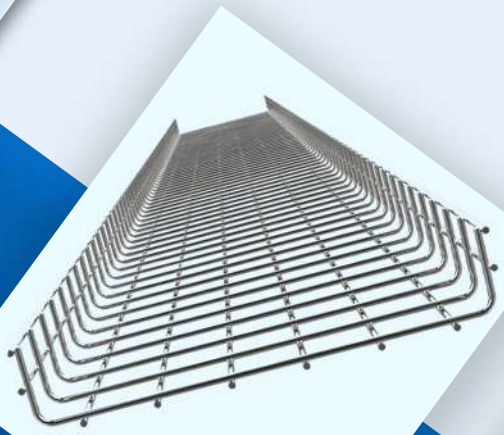
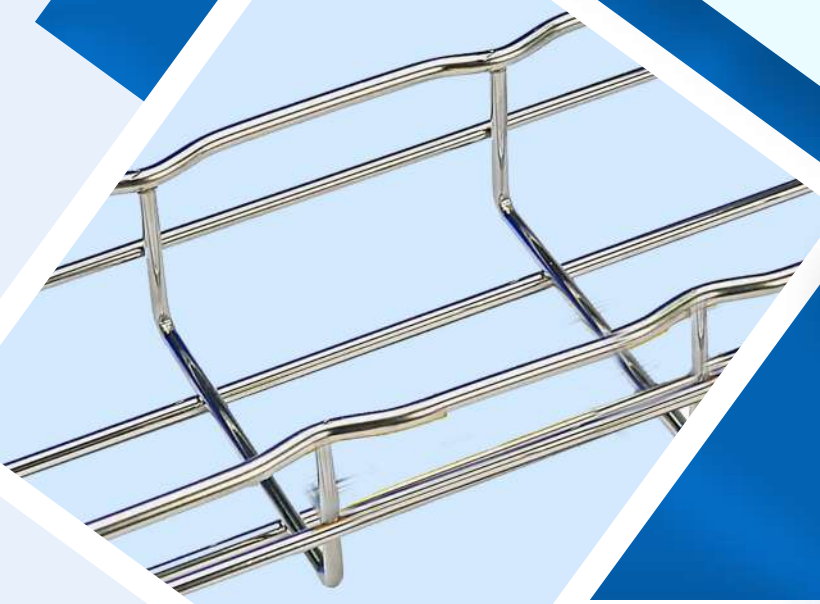
NIPRAS METAL GROUP





BASKET TRAY
CATALOGUE

رؤية VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

UKAS QUALITY MANAGEMENT · CE · UL · ISO 9001 SYSTEM CERTIFICATION SGS · SYSTEM CERTIFICATION ISO 9001 BMTRADA

شركة نبراس المعدن للصناعة
NIPRAS METAL INDUSTRY Co.

DISCLAIMER

NIPRAS Best Practice Guide to cable ladder and Cable Tray Systems including channel support systems and other associated supports.

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In case of any questions or remarks, feel free to contact the R&D Department via www.nipras.sa

INDEX

ABOUT US

Nipras Metal Group is a diversified private enterprise and a Saudi organization established in 2010 with a vision to be a preferred partner for our valuable clients in supplying quality and cost effective building construction and Architectural engineering solutions. Since the establishment of Nipras, we have been partnered with major organizations in the kingdom to consistently serve their projects and, we have engaged closely with many key contractors and consultants by meeting their expectations in providing high-quality and certified construction and Architectural products. **Nipras group** operates its business units from three divisions in manufacturing, supplying and sub-contracting of various Architectural products such as Roof Hatch Access, Gratings, Railings, Raised Floors, Garbage Chute System, Cable tray management solutions, and all types of stainless steel & metal fabrication and other building construction materials. The company has two production lines of Architectural products and cable management systems.

At **Nipras** we always strive hard to supply and meet our client's requirements with high-quality products quickly and efficiently. The company adopts modern management concept, adheres to survival by quality and development by integrity, and gradually boarded the local competition platform. We rely on service to enhance the client relationship, sincerely create value for customers, and provide customers with high-quality and reliable products and wholehearted service. Our company has advanced production equipment which guarantees the most advantageous product quality and efficiency.

Nipras is accredited through various quality certifications and standards meeting all project's technical criteria and consultant approvals. We are an ISO-1519 certified company to ensure the quality, safety, and efficiency of our products. We gain trust of our existing clients and new customers with the best products, the best quality,competitive price and the most perfect service.

Vision

Nipras strives to strengthen its manufacturing base in the steel industry to serve the kingdom and contribute to its vision through effective utilization of staff and materials with cutting-edge technology and high productivity, consistent with modern management practices.

Mission

To be a preferred partner for our valuable customers and consistently exceeds our customer's needs and expectations in quality,delivery, and cost through continuous improvement and enhancing **customer satisfaction.** We go all out to manufacture, deliver and supply superior steel and metal products to our clients utilizing sustainable procedures that meet the international standards.

The aim of **NIPRAS** is to fabricate steel and metal work in the construction sector by the development of standards to turn raw metal into Architectural engineering solutions that can be used in construction.

To assist clients, kingdom wide, by providing Architectural engineering solutions and expertise.

To expand our business by offering the best in quality, cost and solutions.

To provide our employees with the opportunity to develop their full potential within a safe and productive environment.

To seek a competitive advantage by developing partnerships with clients, suppliers and subcontractors.

OBJECTIVES

Riyadh Gate Industrial City
Al-Musafa district
6353
https://www.google.com/maps?q=24.4828100,46.8915030&hl=en-SA&gl=sa&entry=gps&g_ep=CAISBjYuMzQuMxgAINeCAw%3D%3D&g_st=iw

Nipras Metal Group.
Email: info@nipras.sa
Sales: 056 880 5050

Research & Development

R & D refers to two intertwined processes of research (to identify new knowledge and ideas) and development (turning the ideas into tangible products or processes)

Our **Research and development (R&D)** department includes activities that we undertake to innovate and introduce new products and services.

Nipras R&D's mission is to:

Develop products that create value for customers and expand the use of NIPRAS products worldwide..

Improve NIPRAS competitiveness by developing new industrial processes – and optimising existing ones – to reduce cost and improve quality..

Contribute to sustainable development by reducing the environmental impact of products and processes.

Continuously upgrade NIPRAS scientific knowledge and attract technical talent.

Technical Division is entrusted with the work in respect of various subjects of technical nature via Research & Development, Energy & Environment Management, Standardization & Quality Control of products, etc. The work being dealt with by this division may be grouped under few categories namely:

- Research & Development in Metal & Steel Fabrication.
- Technical Regulations on the Products to promote quality.
- Technical Inputs on the ongoing / future products etc.

TECHNICAL TEAM

Lead with Engineers and other professionals at **NIPRAS TECHNICAL DEPARTMENT**, we access a vast array of advanced, highly sophisticated testing, modelling, failure analysis and other resources to develop the next generation of products, where the future is born.

SOCIAL RESPONSIBILITY

We **"NIPRAS"** ability to sense, understand and react to others emotions while comprehending on social networks. (Social awareness which encompasses the competency of empathy is the ability to read nonverbal cues for negative emotions, particularly anger and fear and to judge the trustworthiness of others.

It is about understanding others feelings, not experiencing them (Garner, 2009). NIPRAS accentuates on an individual's ability to identify, perceive and react to other's emotions while being a part of the social network circuitry. NIPRAS understand the ability to and be compassionate to the feelings, views, opinions and challenges of other people. Social-awareness cannot only be equated with understanding people's need but as well as caring for them (Goleman, 2006).

EMPLOYEES

At **NIPRAS** we empower our employees to leverage the corporate resources at their disposal to do well. Being a socially responsible company can bolster a company's image and build its brand.

CUSTOMERS

A business cannot work without consumer. The survival and growth of business depends on consumer satisfaction, service and support. **"NIPRAS"** winning the confidence of our customers made it possible by following a positive attitude towards customers and fulfilling our social responsibilities by providing them:

- **Quality**
- **Fair Prices**
- **Honest advertising**
- **After sales service**
- **Research & Development for their requirements**
- **Safety**
- **Regular supply**

CIVIL SOCIETY

According to the Saudi Youth in Numbers report, **37%** of the Saudi population is under 25. This entails that the youth will play a more significant role in undertaking the paths set by Vision 2030 and inheriting the future it's attempting to build. **NIPRAS** gives our platform to the young for developing their sense of civic responsibility, involvement, and interconnectedness.Opportunities to equip the upcoming generation with the necessary skills and motivation to become active participants in their communities.

ENVIRONMENT

NIPRAS understands the nature of the relationship between corporate adoption of the concept of societal responsibility [availability of environmental awareness, clear vision of the impact of societal responsibility on financial performance, managers informing employees of the latest developments in societal responsibility programs, managers' response to their corporate social responsibility (CSR) proposals] in the form of an annual report that supports the success of the company's objectives, the company's management encourages employees to participate collectively in societal responsibility programs and to protect the environment from pollution in the industry.

HEALTH & SAFETY

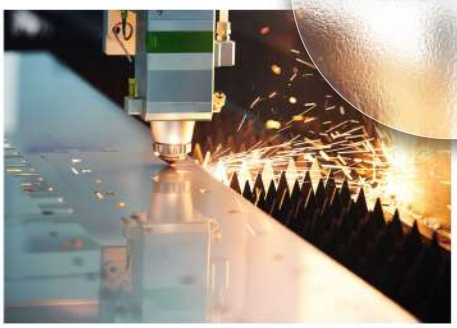
"NIPRAS" as a manufacturing Company for Metal & Steel Products has a large number of hazards because of the strong internal as well as external forward and backward linkages in terms of material flows. Employees are to work in hazardous environment because of complicated equipment layouts, high temperatures, heavy equipment's, moving machinery, hazardous processes, heavy lifting and movements of materials in the work environment etc. Further, several operations involve working at heights or in confined spaces. In short, working involves both very high volume as well as the complexity of operations which results into employees getting exposed to a high level of health and safety risks.

The health, safety, and protection of our employees, equipment, and the environment are perfectly calculated and implied as a crucial since it affects both economic and social factors.. On the other hand, a healthy and safe workplace contributes towards plants competitiveness as well as in profit growth.

ADVANCED MACHINERY








Standardized production lines meeting the complete requirements for the industry. Facility equipped with high end and advanced machinery **"NIPRAS"** serve our customers with topmost perfection.Our facility comprises with most high end technology where mentioned few are our key role players as - ***Laser Cutting / Sheering Machines,CNC Bending Machines,CNC Punching Machines,Auto Welding Sets*** and more.

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 591ASTM 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

**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. Continuosly 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

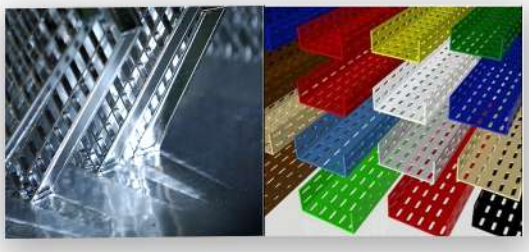
F. Austenitic Stainless Steels AISI 304 & 316 As per: ASTM A240 / EN 10088 - 2 / DIN 17400 / BS 1449-2 ASTM A480 / ASTM A666 / ISO 3506 / EN 10028-7 JIS G4304
F.1 Stainless Steel Fasteners EN 3506 F.2 Stainless Steel Wire BS 1554, ASTM A 27

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 / BS EN 10143 / BS EN 10346
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



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

NATIONAL ELECTRICAL CODE

CABLE MANAGEMENT SYSTEM

Cable management is the organization of cables connected to electrical devices. This includes power cables, network cables, audio/video cables, and many others. Managing cables is a key aspect of a clean and safe home or work environment.

NIPRAS STEEL FACTORY – Provides many cable support systems with specially designed supports that are easy to install and can support heavy duty cables along with others. Our best selling products are...

CABLE TRAY | **CABLE LADDER** | **CABLE TRUNKS** | **CABLE BASKET (WIRE)**

1

Cable Trays provide the most ideal answer for concealing and protecting all types of cables that are available in various widths, heights and thickness. **NIPRAS CABLE TRAY (NCT)** fabricated by single sheet (slotted/plain) is without any welding, provides a continuous support for the standard/custom lengths.

2

Cable ladders are utilized where heavy weighted cables are to be supported over long runs and extended supported spans. **NIPRAS CABLE LADDER (NCL)** covers up these loads with our wide range from light to heavy duty.

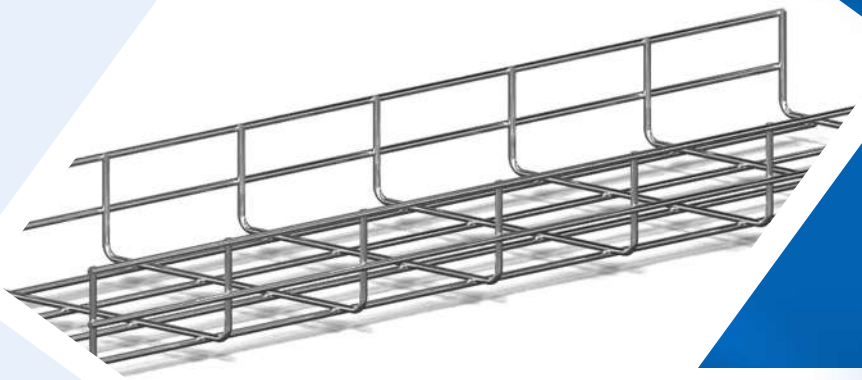
3

Cable Trunking with good aesthetically pleasing option is widely used to cover up the cables and have the freedom of movement throughout the installed area. **NIPRAS CABLE TRUNK (NCTR)** supplies the item with different standard/ customised compartments within.

4

Wire Basket Tray System is an industry leading continuous cable basket and pathway support solution for today's high -performance cabling systems. Highly engineered features help ensure a secure installation that complies with industry codes and standards for high-performance cables. Clever design allows the installer to maximize field efficiency. **NIPRAS BASKET TRAY** (NBT) provides the perfect combination of performance, time savings and versatility required by today's DATACOM and electrical contractors.

NIPRAS METAL GROUP



WIRE BASKET

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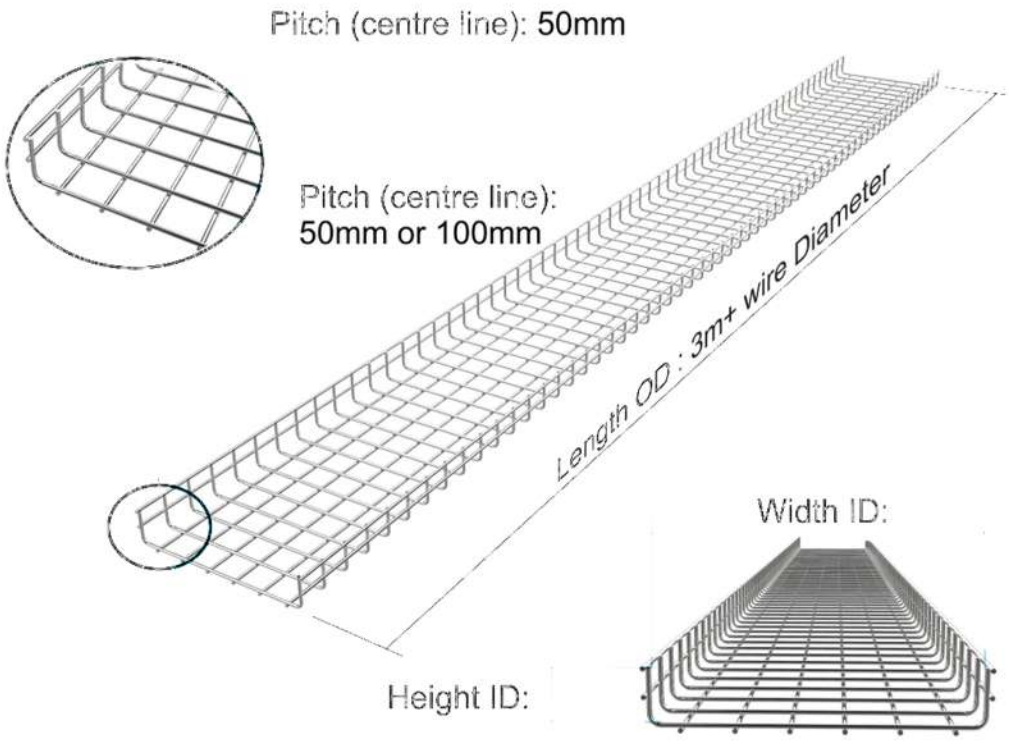
شركة نبراس المعدن للصناعة
NIPRAS METAL INDUSTRY Co.



WIRE BASKET TRAY

NIPRAS WIRE BASKET TRAY System was developed for use in commercial and industrial applications where the installer demands a cost efficient site adaptable cable management system that can offer enough strength and durability to carry cables whilst maintaining an economical support span.

The mechanical performance of cable tray products and accessories are tested against the demanding requirements imposed by the **NEMA VE-1** , Underwriters Laboratories (UL) and international standard **IEC 61537**. These standards help ensure cable tray systems safety support cabling in a wide variety of applications.

USAGE

- Hospitals
- Shopping centers
- Offices / Hotels
- Data centers / Technology centers
- Museums
- Schools / Universities

- Airports
- Stations
- Tunnels
- Bridges
- Stadia
- Telecommunications

- Mines/Quarries
- Steel
- Cement
- Petrochemicals
- Oil & gas
- Energy production

- Chemicals/pharmaceuticals
- Automotive/equipment
- Glass/wood/textiles/paper
- Food industry
- Water & waste treatment
- Ships/platforms

MATERIAL & FINISHES

Cable trays are mainly exposed to atmospheric corrosion. The environment in which the cable trays are installed is therefore the main criteria in the choice of surface treatment, or type of steel.

Atmospheric corrosion affecting metals involves a chemical reaction between the iron found in steel and dioxygen in air or water (condensed moisture, rain or spray).The reaction produces the chemical compound Fe(OH)3, more commonly known as rust.

COATED STEELS

Galvanic protection of steel is a sacrificial process. Zinc,in contact with an oxidising agent, is converted into zinchydrocarbonate (white) thus protecting the steel.

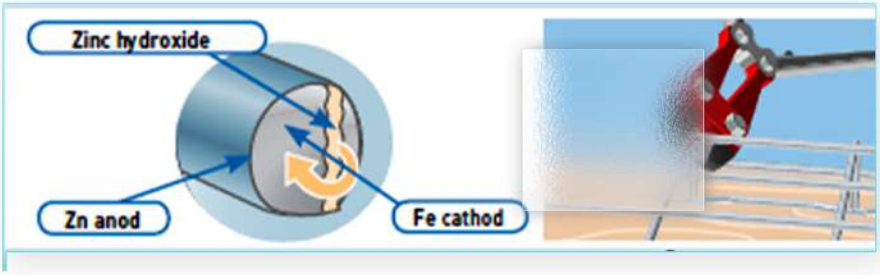
Steel Grade Quality

Our **tray** is constructed of precision engineered, high qualitysteel wire. ISO 9000 certified, Legrand/Cablofil wire cable trayis subjected to rigorous quality control at every stage of the manufacturing processes.

○ Recommended ◆ Possible	PG	EZ	GC	DC	304L	316L
Indoor installation, controlled environment	○	○				
Outdoor installation, urban environment			○	○		
Chemical industries, nitrate explosives			◆	◆		○
Marine, sulphurous environment			◆	◆		○
Acid or alkaline environments			◆	◆	◆	○
Food production environment					○	○
Halogen environment					◆	○

EZ **ELECTROGALVANISING AFTER MANUFACTURE**
ASTM A633 standard

The cable tray, manufactured using untreated steel wire, is pickled and then immersed in an electrolyte containing zinc. Zinc is then deposited on it by passing an electric current. A smooth blue-grey, fairly glossy appearance is obtained to a greater or lesser extent depending on the pH value of the electrolytic bath used. The color and level of gloss have no negative or positive effect on the corrosion resistance of the coating.



Ongoing protection

When a wire cable tray is cut, the fact that a wire has been cut does not affect the level of protection. The jaws of the bolt cutter drags a layer of zinc across the cut end and forms a protective layer.

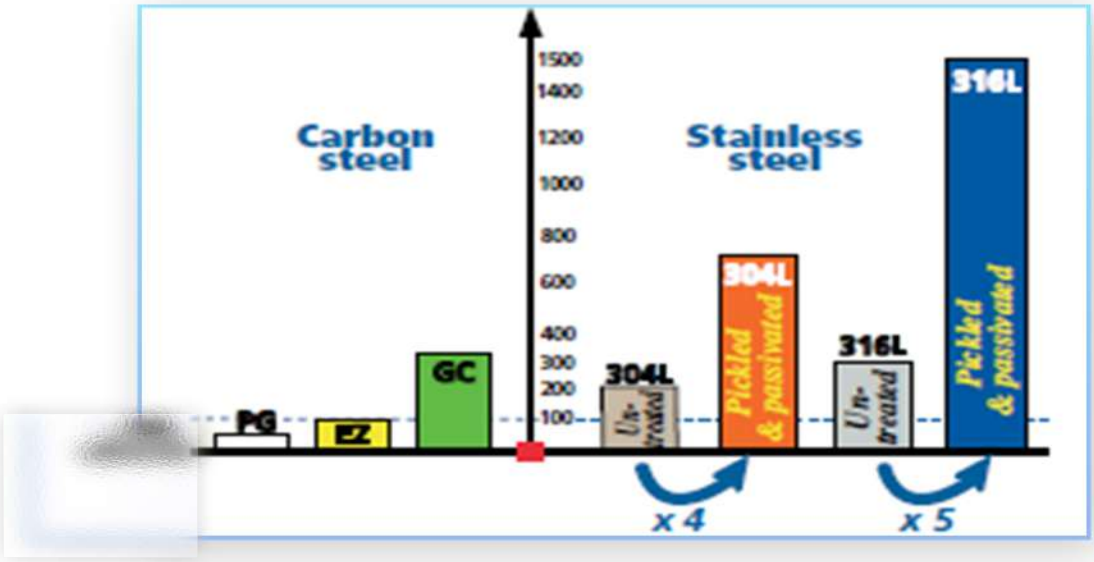
GC HOT DIPPED GALVANIZED AFTER MANUFACTURE
ASTM A123 STANDARD

The cable trays or accessories, manufactured from untreated steel sheet or wire, are degreased and pickled before being immersed in a bath of molten zinc. The entire product is therefore covered with a thick layer of zinc.
A light grey, rough appearance is obtained.

NOTE: ***Any white marks due to the formation of zinc hydroxycarbonate which might appear on the surface have no influence on the corrosion resistance.***

BL PE POWDER COATED PAINT
ASTM D3451 STANDARD

Resin-based paint is applied to the cable tray using an electrostatic powder and then cured in an oven. Black is standard. The entire range of colors are available. Mainly used for aesthetic reasons and to help identify cable routes, it offers very good corrosion resistance and the industries only ULclassified painted tray system.



Figures for salt spray tests, baseline 100: EZ

STAINLESS STEELS

In particularly harsh environments, selecting the right type of steel is more important than the coating. **NIPRAS** uses twonaustenitic stainless steels, 304 L and 316 L, for their high level of corrosion resistance. This is partly the result of their verynlow carbon levels (**“L“ stands for “low carbon“**) as well as a Nipras exclusive passivation process.

304L

STAINLESS STEEL 304 L ASTM A380 STANDARD
AISI 304L – X2CRNI18.09

Offers good corrosion resistance against soft water,normal environments and food products (except mustard and white wine).

316L

STAINLESS STEEL 316 L ASTM A380 STANDARD
AISI 316L – X2CRNIMO17.12.2

Since it contains molybdenum, stainless steel **316L** is able to resist intergranular corrosion. This makes it particularly suitable for the chemical and food industries, the nitrate explosives industry and environments containing halogen **(fluorine and chlorine)**

DECONTAMINATION OF STAINLESS STEELS

There are two key stages for prolonging the service life of the product and, by implication, the installation:

Pickling in acid after degreasing eliminates pollutants.
Passivation artificially creates a film of chromium oxide on the surface of the steel.

Corrosion-resistance tests involving salt spray and S02 (sulphur dioxide) highlight the importance of these two processes.

Pickling and passivation give **NIPRA’s** stainless steel a very clean uniform and a distinctly matte finish. All **NIPRAS** stainless steel products are pickled and passivated.

Untreated

Pickled and passivated

Untreated

Pickled and passivated

GALVANIC CORROSION

Partner metal → / Metal involved ↓	Stainless steel	Nickel	Copper	Brass	Tin	Steel	Aluminium	Chromium	Zinc
Stainless steel	0								
Nickel	180								
Copper	320	140	0						
Brass	400	220	80	0					
Tin	550	370	230	150	0				
Steel	750	570	430	350	200	0			
Aluminium	840	660	520	440	290	90	0		
Chromium	950	770	630	550	400	200	110	0	
Zinc	1150	970	830	750	600	400	310	200	0

Differences in potential are expressed in millivolts.
Beneath the red line, the metal involved is attacked

Corrosion is the result of an electrochemical phenomenon caused by a difference in potential between different metals, or between a metal and the impurities within it when they are connected **electrically.**

It is important to understand this phenomenon if you want to be sure of selecting the best supports, fixings and earthing terminals. This will ensure that surface treatments are compatible:

Wire cable trays		Accessories
EZ/PG	→	EZ/GS
GC	→	GC/DC
304L	→	304L & 316L
316L	→	316L

ELECTROMAGNETIC INTERFERENCE

Understanding EMI involves the analysis of electromagnetic pollution between a source of disturbance and its victim.

THE EMI

Electromagnetic interference is emitted by a source polluting a victim. **Electromagnetic interference** is transmitted by a process known as coupling. An EMI problem only occurs when the three elements source, coupling and victim are evident. To obtain a good EMI we simply need to eliminate one of the three elements or reduce its effect.

Metallic cable trays with excellent electrical continuity which are integrated into an installation's equipotential earthing network reduce the effects of coupling and therefore improve an electrical installation's EMI.

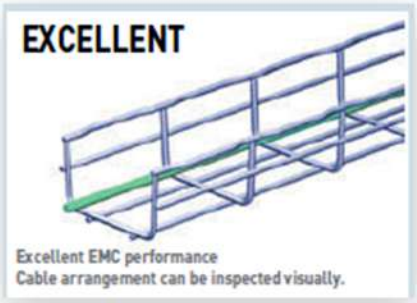
Sources include: frequency modulators, mobile phones, lightning, power cables, transformers, etc.

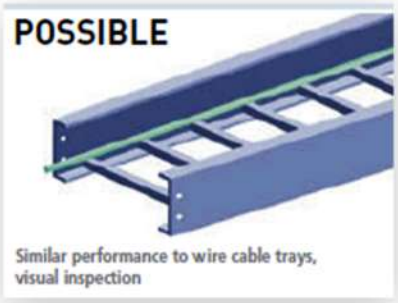
Victims include: IT systems, devices, DATA cables, etc.

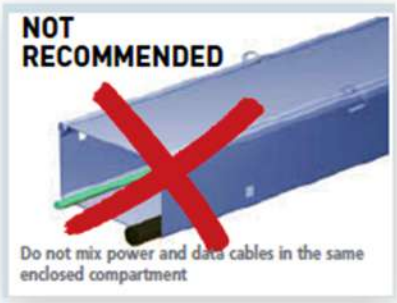
NIPRAS® SOLUTION

- It's open structure makes it easy to ensure correct separation by **visual inspection.**
- It's easy installation and metal structure guarantee excellent electrical continuity in all cases: couplings,bends, level changes, crossing walls, etc.
- It's open structure can reduce **crosstalk.**

EMC TESTS



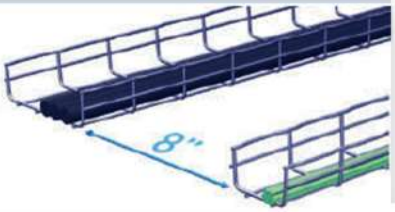




When integrated into the earthing network, NIPRAS metallic cable trays help electrical installations achieve excellent EMI levels.

BEST PRACTICES FOR REDUCING EMI

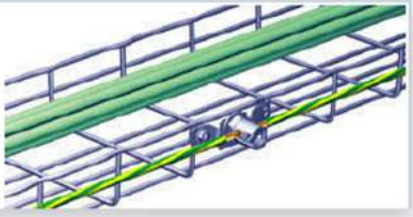
Remember the importance of keeping power and data cables separate.*



Make sure different cable types cross at right angles.

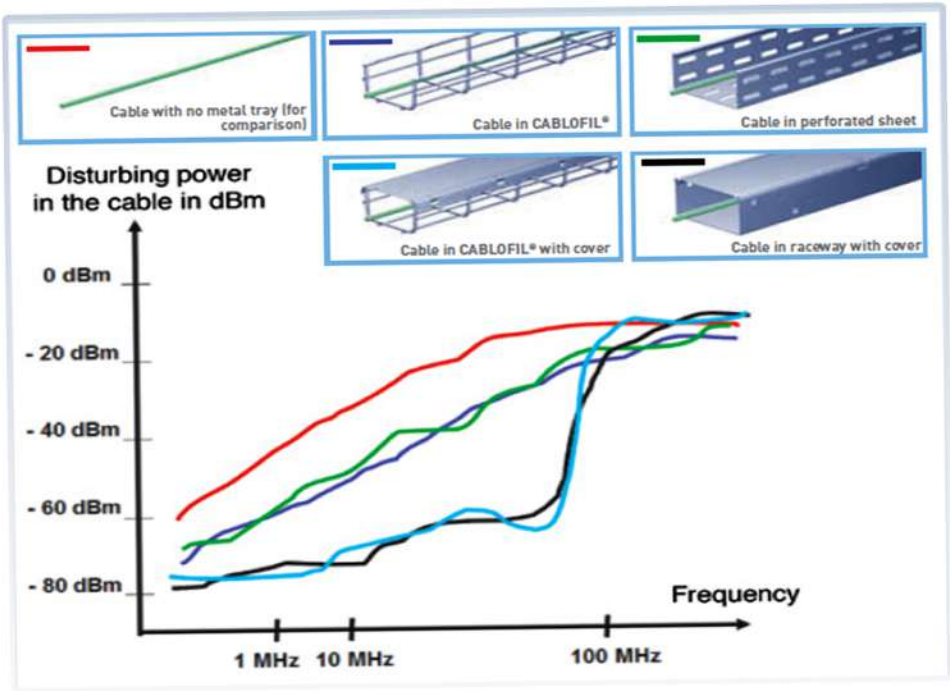
Make sure electrical continuity is preserved:
Use metal cable tray and UL classified splices.

Connect cable trays to the earthing network (every 60').



DATA CABLE IN AN EXTERNAL ELECTROMAGNETIC FIELD

A **data cable (Category 5e UTP)** is placed in an insulated anechoic chamber and subjected to a powerful artificiallygenerated electromagnetic field in order to simulatae **electromagnetic interference**.



RESULTS AND INTERPRETATIONS

A simple comparison of the measurements for the different cable tray configurations (wire mesh and perforated tray, with and without cover) makes it possible to quantify the role played by the tray in terms of **EMI.**

These tests show that there is no significant difference in effect offered by wire mesh or perforated cable tray.

These results show that it is vital:

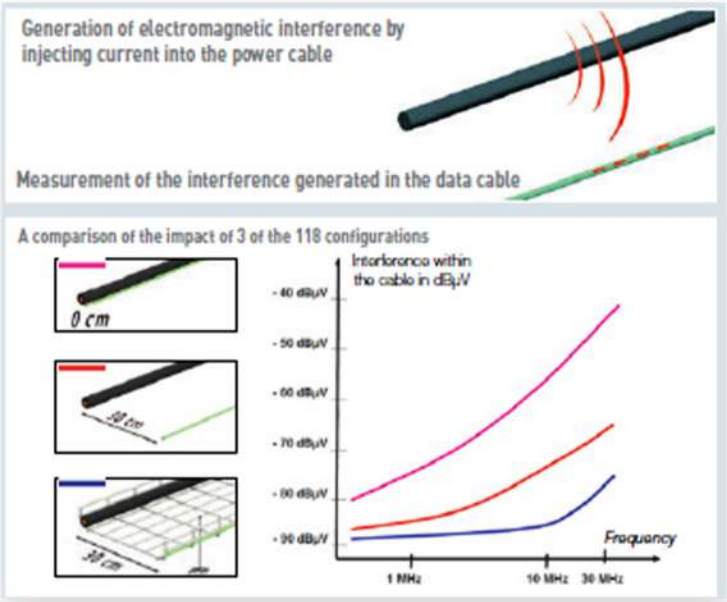
- Use metal tray
- Earth the cable tray
- Use a cover if required

Non metallic and non-ferrous cable trays (PVC, aluminum composite materials) are ineffective against electromagnetic interference.

A **Category 6 UTP** data cable is placed inside an insulated anechoic chamber and subjected to an electromagnetic field generated by a power cable. The following parameters are studied:

- Cable-tray earthing
- Separation distances: 0, 25, 50, 75 ft
- Cable-tray type: wire mesh, perforated tray, trunking
- Separated cable trays
- One cable trays, with and without dividers

As a result, a total of 118 configurations are tested.



RESULTS AND INTERPRETATIONS

This second test configuration confirms that metal cable trays reduce interference (wire mesh or perforated tray).

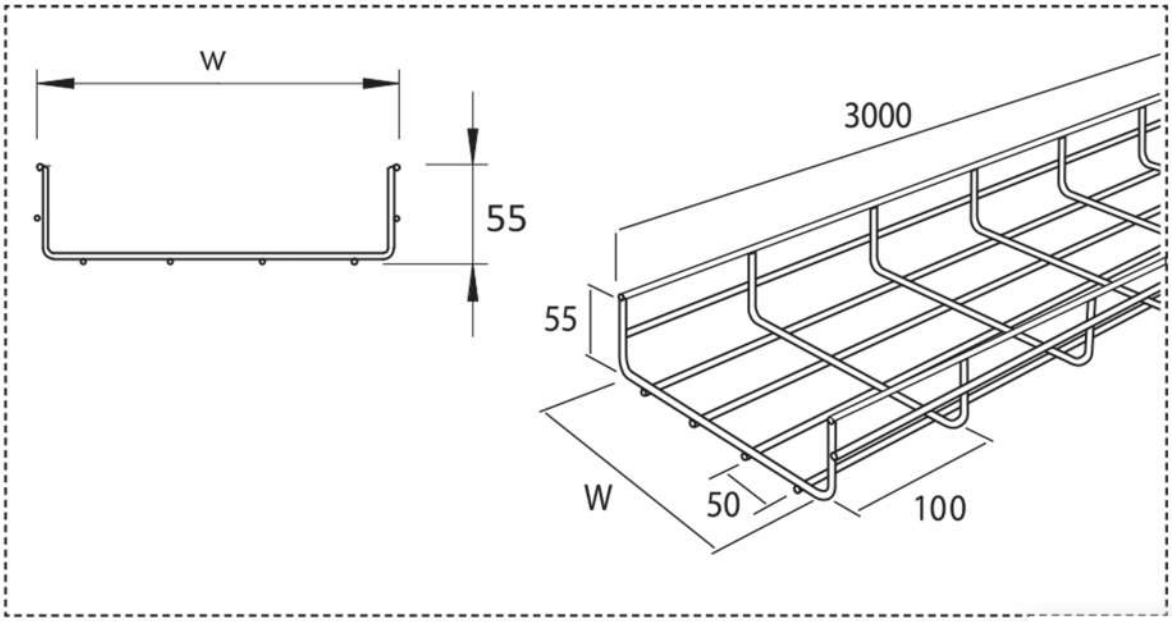
To obtain a good EMI, these results show that it is vital:

- Use metal cable tray
- Earth the cable tray

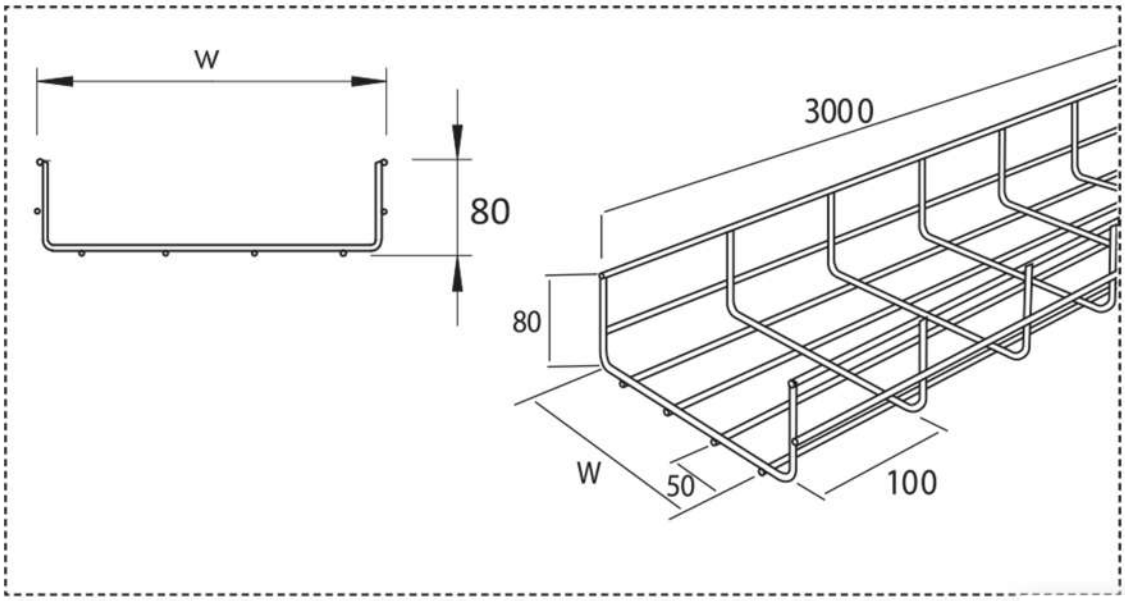
These tests show the importance of the following criterias:

- Ensure maximum separation distances
- Use two separate cable trays for power and data
- Use a divider if sharing containment systems

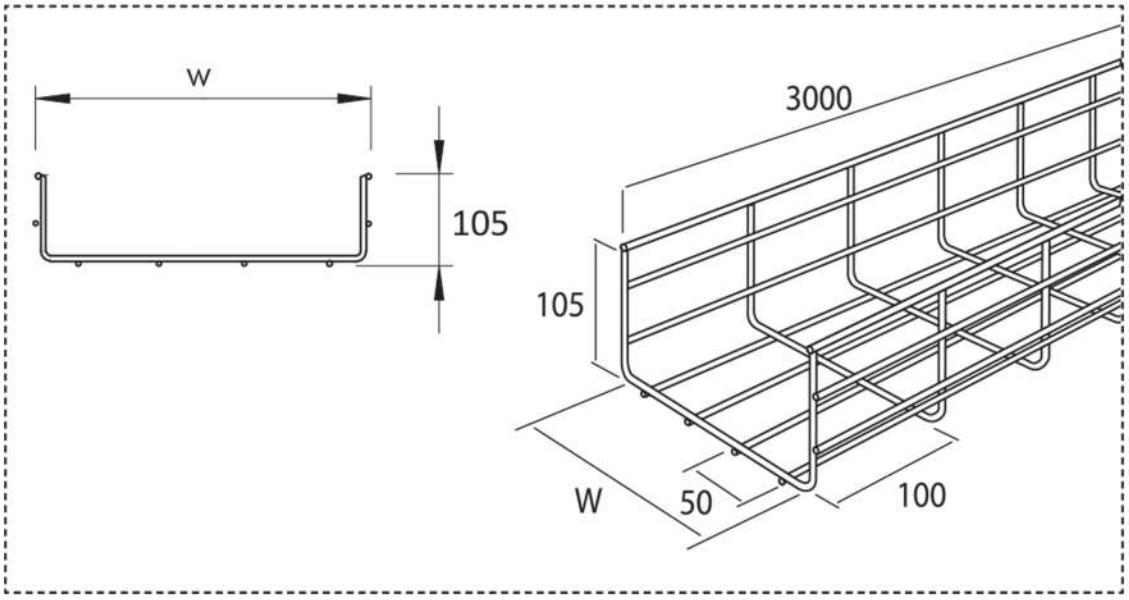
Never put power cables and data cables in the same closed compartment.



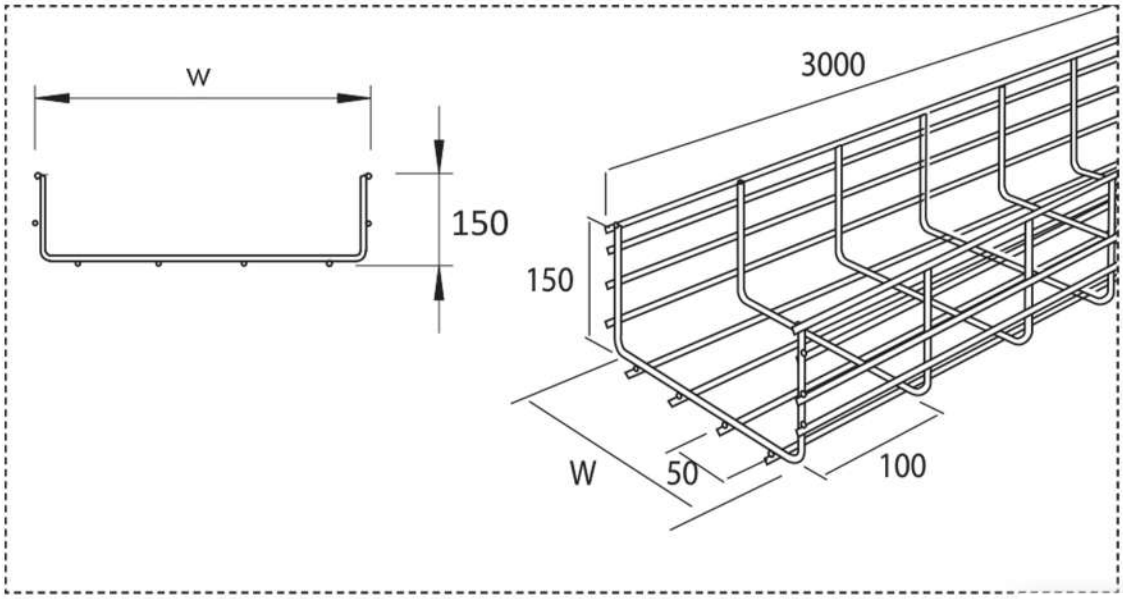
Basket Tray			
Side Height - 55 (mm)			
Item code	Width (mm)	kg / m	spacing
NBT-A	50	0.61	100
NBT-B	100	0.76	100
NBT-C	150	1.01	100
NBT-D	200	1.32	100
NBT-E	300	1.99	100
NBT-F	400	2.97	100
NBT-G	450	3.17	100
NBT-H	500	3.37	100
NBT-I	600	3.79	100



Basket Tray			
Side Height - 80 (mm)			
Item code	Width (mm)	kg / m	spacing
NBT-A1	100	0.90	100
NBT-B1	200	1.50	100
NBT-C1	300	2.30	100
NBT-D1	400	2.60	100
NBT-E1	500	2.90	100
NBT-F1	600	3.62	100



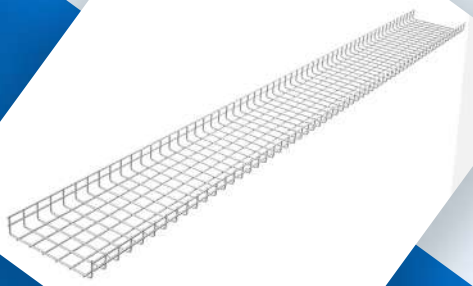
Basket Tray			
Side Height - 105 (mm)			
Item code	Width (mm)	kg / m	spacing
NBT-A2	100	1.32	100
NBT-B2	150	1.69	100
NBT-C2	200	1.99	100
NBT-D2	300	2.96	100
NBT-E2	400	3.37	100
NBT-F2	450	3.60	100
NBT-G2	500	3.78	100
NBT-H2	600	4.19	100

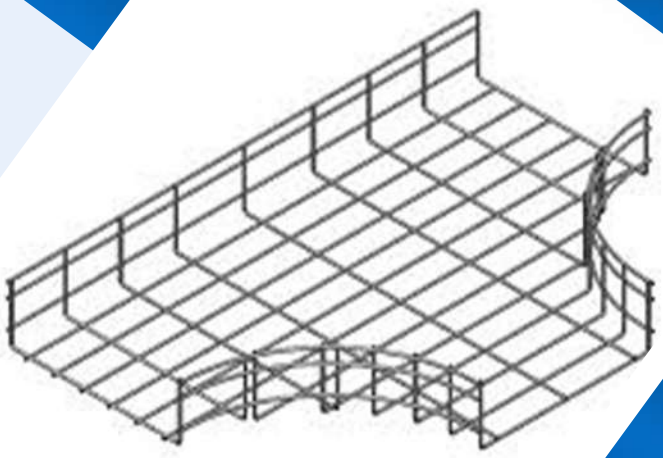


Basket Tray			
Side Height - 150 (mm)			
Item code	Width (mm)	kg / m	spacing
NBT-A3	200	3.10	100
NBT-B3	300	3.50	100
NBT-C3	400	3.90	100
NBT-D3	450	4.10	100
NBT-E3	500	4.40	100
NBT-F3	600	5.00	100

Heights: 55 mm, 80 mm, 105 mm and 150 mm.
Widths: 50 - 600
Materials: steel, hot-dip galvanized to DIN EN ISO 1461

NIPRAS METAL GROUP





BASKET TRAY FITTINGS

رؤية VISION 2030 المملكة العربية السعودية KINGDOM OF SAUDI ARABIA

UKAS QUALITY MANAGEMENT · CE · UL · ISO 9001 SYSTEM CERTIFICATION SGS · SYSTEM CERTIFICATION ISO 9001 BMTRADA

شركة نبراس المعدن للصناعة
NIPRAS METAL INDUSTRY Co.

90 BENDS

Heights: 55 mm, 80 mm, 105 mm and 150 mm.
Widths: 50 - 600
Materials: steel, hot-dip galvanized to DIN EN ISO 1461

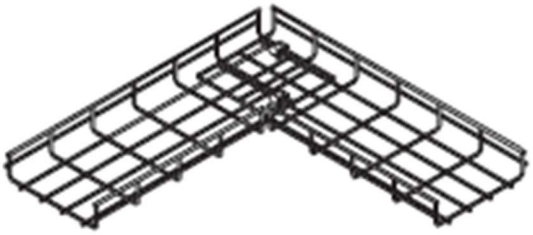
90 HORIZONTAL BENDS

-

SHORT RADIUS | M105

LONG RADIUS | M106

STRAIGHT SECTIONS | M107

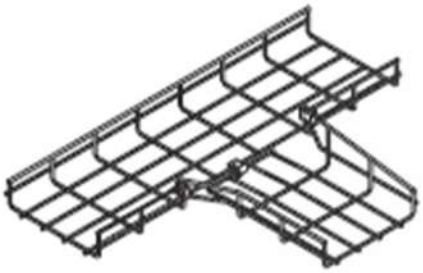


OUTSIDE INSIDE BENDS | M10

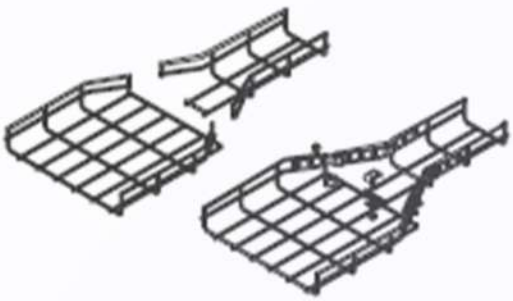
90° HORIZONTAL BENDS

VERTICAL INSIDE BENDS | M10

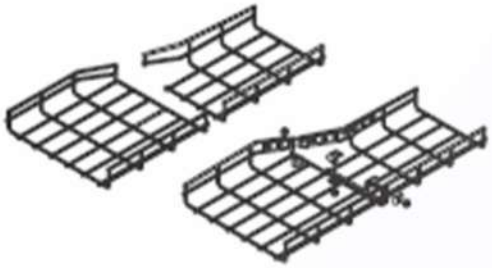
HORIZONTAL TEES (CROSS) | M10

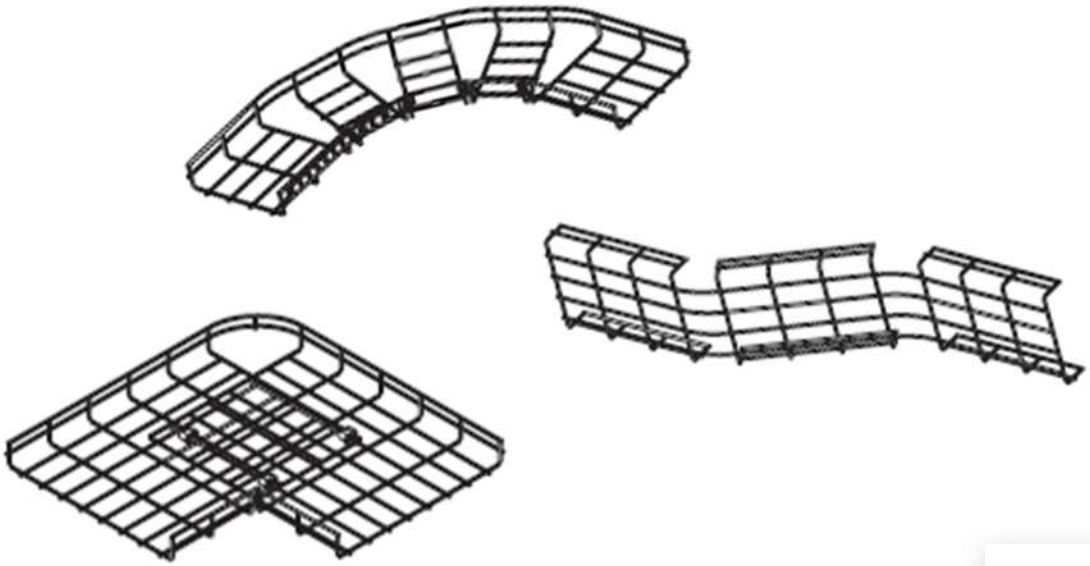


REDUCERS - CENTRAL REDUCERS | M11



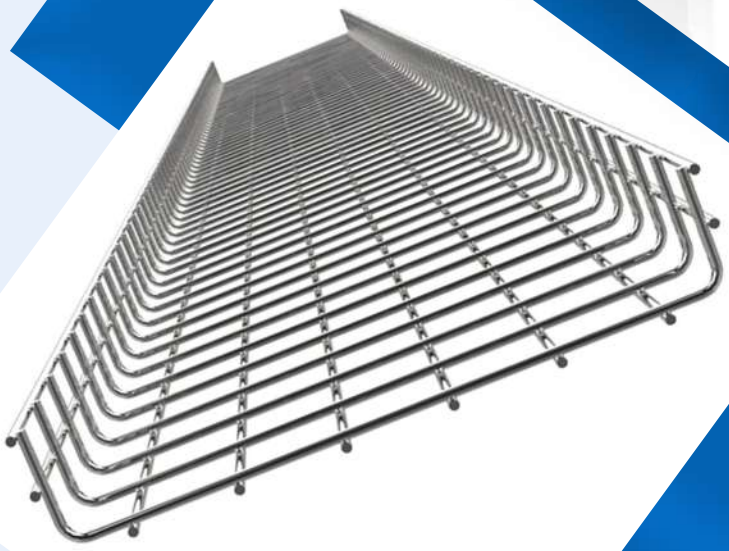
LEFT & RIGHT REDUCERS | M11





Fittings	Iter
Short Radius	NSR-BT
Long Radius	NLR-BT
Straight Section	NSTR-BT
Outside Inside Bends	NOIB-BT
Vertical Inside Bends	NVIB-BT
Horizontal Tees (Cross)	NHT-BT
Central Reducer	NCR-BT
Right Hand Reducer	NRHR-BT
Left Hand Reducer	NLHR-BT

NIPRAS METAL GROUP



BASKET TRAY ACCESSORIES

VISION رؤيـــة 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

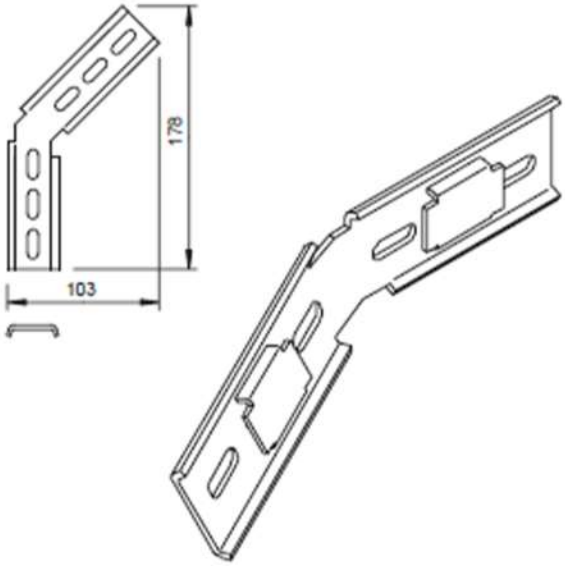
UKAS QUALITY MANAGEMENT
CE
UL
ISO 9001 SYSTEM CERTIFICATION SGS
BMTRADA SYSTEM CERTIFICATION ISO 9001

شركة نبراس المعدن للصناعة
NIPRAS METAL INDUSTRY Co.

MOUNTING BRACKET

Connectors, for production of bends and Basket Trays Steel strip galvanized to DIN EN 10147

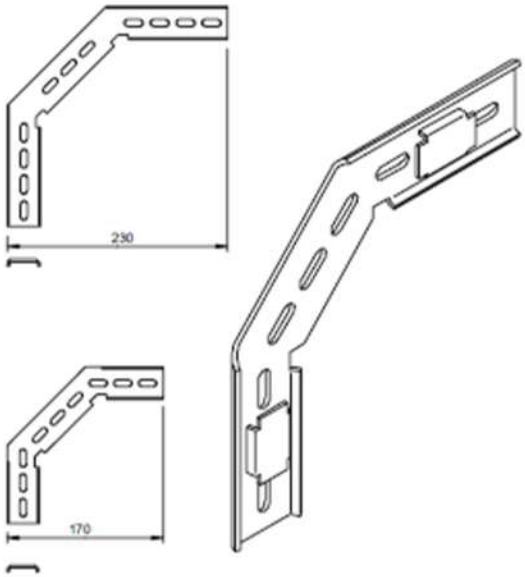
45 MOUNTING BRACKET | M11(



Base holder for Basket Tray with mesh 50 mm x 100 mm and suspension

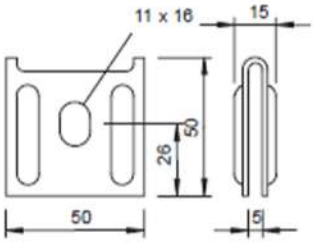
Materials: Steel strip galvanized to DIN EN 10147

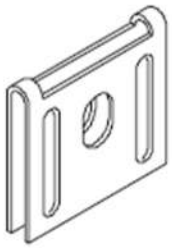
90 MOUNTING BRACKET | M11



Materials: Steel strip galvanized to DIN EN 10147

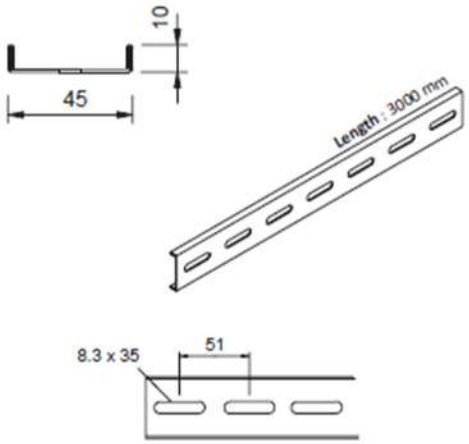
WALL MOUNTING | M11





Materials: Steel strip galvanized to DIN EN 10147

SUSPENSION PROFILE| M11

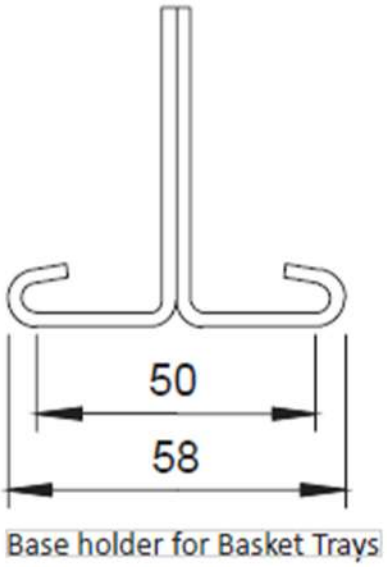


For connection between ceiling angle and base holder

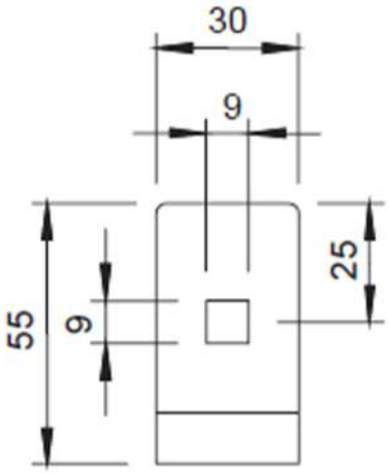
Materials: Steel strip galvanized to DIN EN 10147

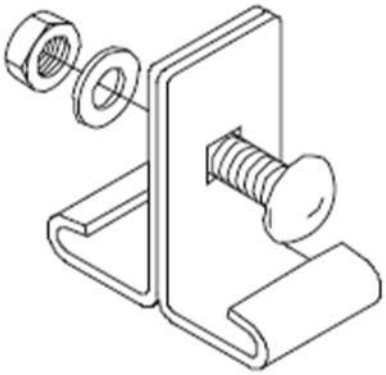
CENTRAL HANGER

SUSPENSION PROFILE TYPE | M12(



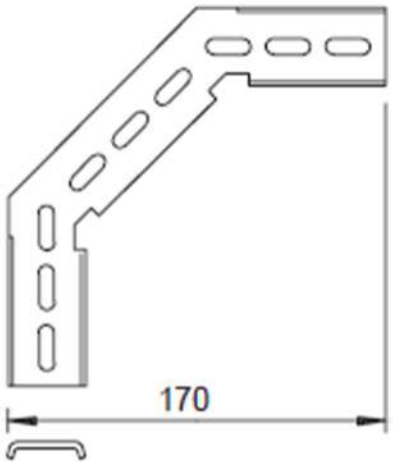
Base holder for Basket Trays

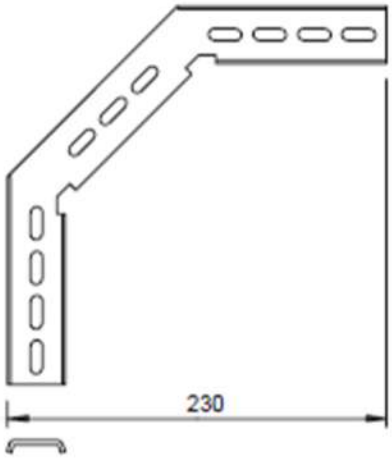




Materials: Hot-dip galvanized steel to DIN EN ISO 1461

THREADED ROD HANGER | M12



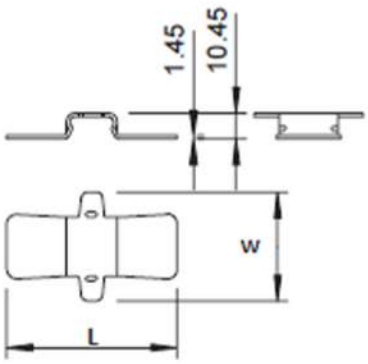


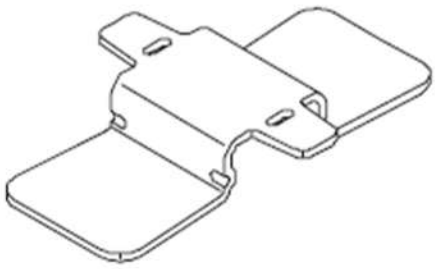
For mounting of suspension profiles using a threaded rod

Materials: Hot-dip galvanized steel to DIN EN ISO 1461

CONNECTORS

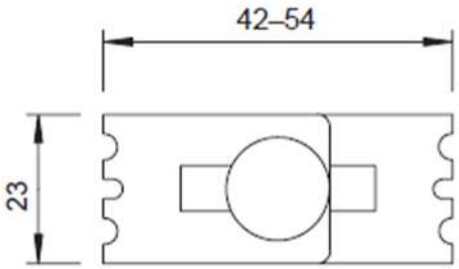
QUICK CONNECTOR | CN10



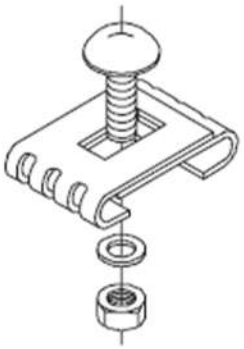


Materials: Hot-dip galvanized steel to DIN EN ISO 1461

CORNER CONNECTOR | CN10

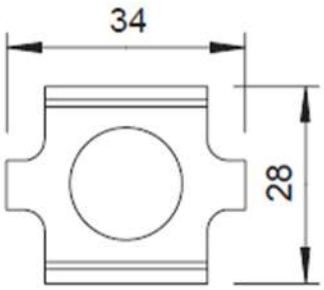


Truss-Head Bolt

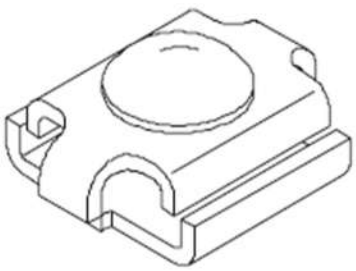


Materials: Hot-dip galvanized steel to DIN EN ISO 1461

JOINT CONNECTOR | CN10



Complete with 1 bolt

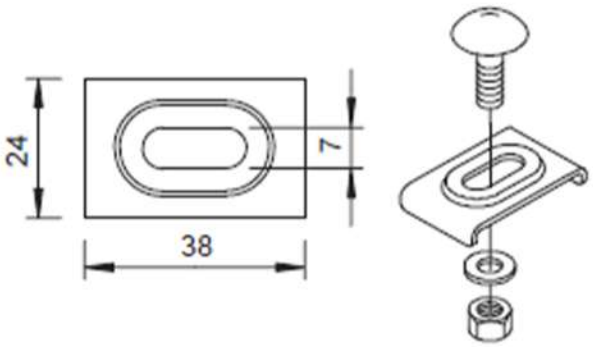


Materials: Hot-dip galvanized steel to DIN EN ISO 1461

CLAMPS

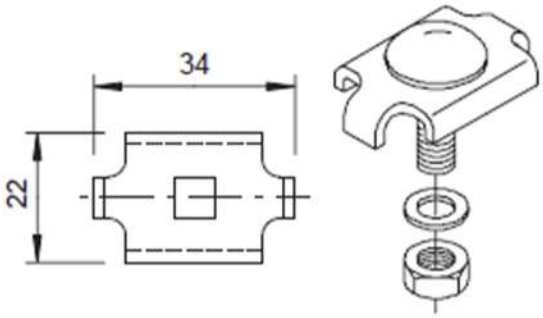
CL100

For barrier strip mounting in Basket Tray
Materials: Hot-dip galvanized steel to DIN EN ISO 1461



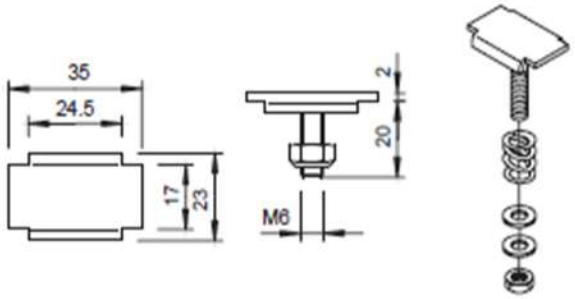
CL200

For mounting Basket Tray to wall or support brackets
Materials: Hot-dip galvanized steel to DIN EN ISO 1461



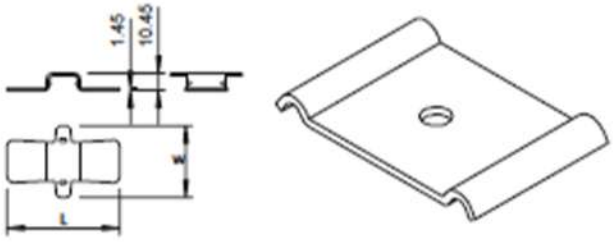
CL300

For mounting Basket Tray to wall or support brackets
Materials: Hot-dip galvanized steel to DIN EN ISO 1461



CL200

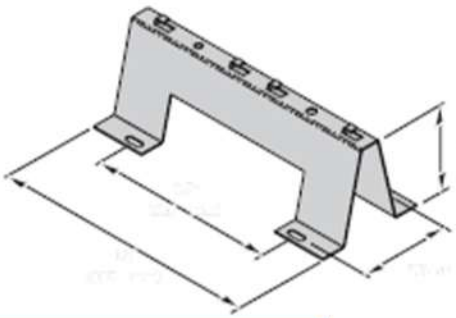
For mounting Basket Trays on the floor or on stand off brackets
Materials: Hot-dip galvanized steel to DIN EN ISO 1461



UNDER - FLOOR STAND | M12

- No hardware required to mount wire basket to bracket.
- Simply bend tabs down around wires using a screwdriver.

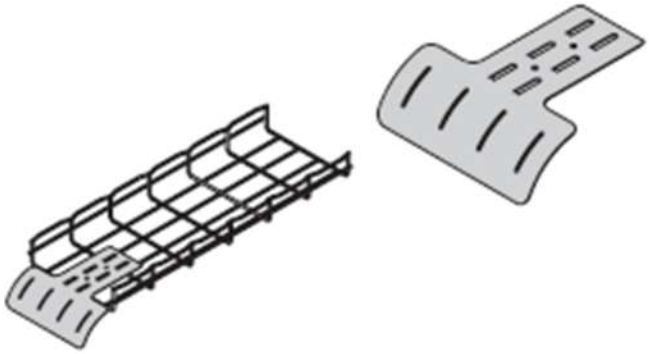
Materials: Hot-dip galvanized steel to DIN EN ISO 1461
Order Example: Item No - Length (l) - Width (w) - Material



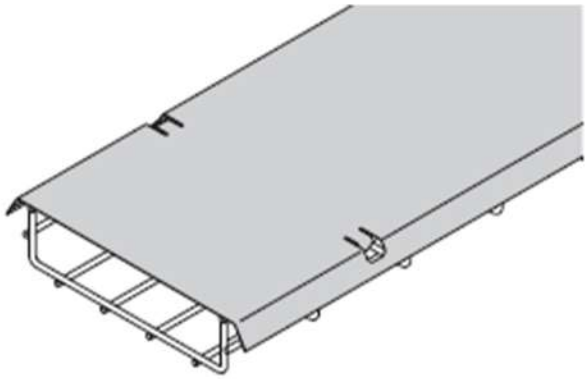
HEIGHT		WIDTH	
in.	mm	in.	mm
3	76	3.69	94
4	102	4.14	106
5	127	4.59	117
6	152	5.04	128

DROP-OUT FITTING | M12:

- Keeps cable radius secure at drop point
- For use with 4” (100 mm) to 24” (600 mm) wide trays
- Attaches to tray without hardware
- Drop - outs can be attached at bottom, side or ends of tray



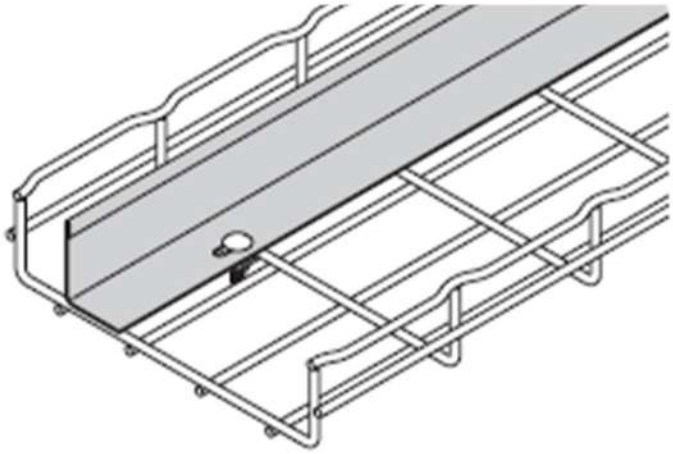
COVER | M124



Materials: Hot-dip galvanized steel to DIN EN ISO 1461

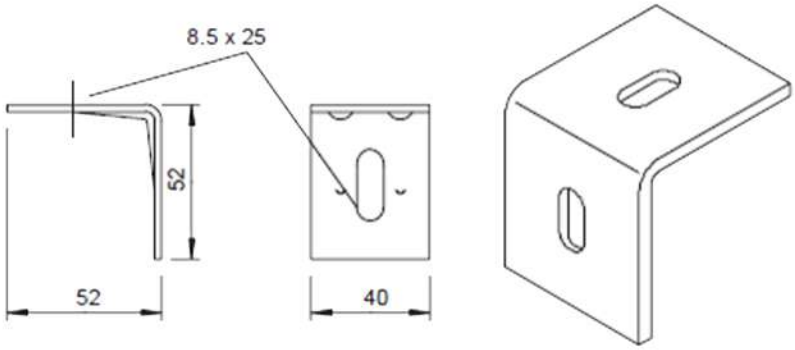
BARRIER | M125

- Separates cables.
- Furnished with barrier kit (includes hardware).
- Length: 3000 mm



CEILING ANGLE | M126

- Materials: : Steel strip galvanized to DIN EN 10147
  Hot-dip galvanized Steel to DIN EN ISO 1461



FRAMING SYSTEM

ASTM F436

Washers (SRW) | DIN 125 | ASTM F436

Zinc Plated	Stainless Steel	D (mm)	d (mm)	S (mm)
M6	M6	12	6.4	1.6
M8	M8	16	8.4	1.6
M10	M10	21	10.5	2
M12	M12	24	13	2.5
M16	M16	30	17	3
M18	M18	34	19	3.2
M20	M20	39	20.5	3.6

ROUND WASHERS DIN 440, DIN 902

Washers (SRW) | DIN 440 | DIN 9021

DIN	Zinc Plated	Stainless Steel	D (mm)	d (mm)	S (mm)
440	M6		22	6.6	2
9021	M8	M8	24	8.4	2
9021	M10	M10	30	10.5	2.5
440	M12		45	13.5	4
9021	M12	M12	37	13	3
9021	M16	M16	50	17	3

SQUARE WASHERS SSW

Square Washers (SSW)

H.D. Galvanized Bolt	Stainless Steel Bolt	a x b x d (mm)
M8	M10	40 x 40 x (4-5-6)
M10	M12	40 x 40 x (4-5-6)
M12	M16	40 x 40 x (4-5-6)

FULLY THREADED RODS GRADE 4. DIN 975 ASTM A 36, A193

Threaded Rod (STR) - DIN 975 - ASTM A36

Zinc Plated Thread	Length (mm)	Load cap. (kN)
M6	2000/3000	2.2
M8	2000/3000	4.0
M10	2000/3000	6.4
M12	2000/3000	12.9
M16	2000/3000	17.3
M18	2000	22.0
M20	2000	27.0

ROUND HEAD MACHINE SCREWS

Round Head (SRH) | DIN 7985

Zinc Plated Thread	Length (mm)	d (mm)
M6	30-40	6.0
M8	30-40	8.0
M10	20-60	10.0

COUPLER SLEEVES ROUNDED

Coupler Sleeves (SCS)

Electro-plated Thread	Stainless Steel Thread	D (mm)	L (mm)	Load Capacity (kN)
M6	M6	10/10	15	2.2
M8	M8	12/14	20	4.0
M10	M10	13/16	25	6.4
M12	M12	16/20	30	9.3
M16	M16	21/25	40	17.3
M20	M20	26/32	50	27.0

RANGE OF PRODUCTS

CABLE MANAGEMENT SYSTEM

NIPRAS having a wide range of products for Cable Management system, Architectural Engineering Solutions, Building Material and more that are characterized in below categories to support the best interest for our customers.

Cable tray & Accessories

Cable ladder & Accessories

Cable trunk & Accessories

Wire basket tray & accessories

Base plate

Electrical boxes

EMT-Conduits

HFT – Crimped Terminal Lugs

Control panel boxes

C-Channel

ARCHITECTURAL ENGINEERING SOLUTION

Roof Access Hatch

Handrail

Garbage & Linen Chute

Access Raised Floor

Lockers

Ladders

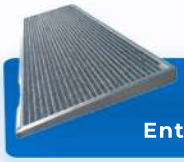
Gratings (Steel / Galvanized)

Steel Bollards

Fence

Toilet Partitions

Metal Gates

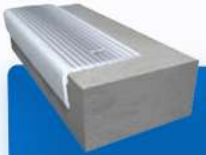


Entrance Mats

Expansion Joint System

Tile & Carpet Trim

Impact Protection



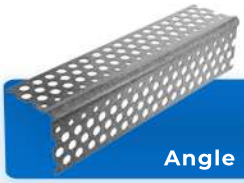
Staor Nosing

BLOCK WORK AND PLASTERING ACCESSORIES


Block Reinforcement

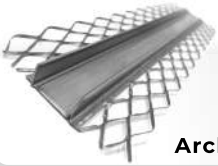

Steel Lintel

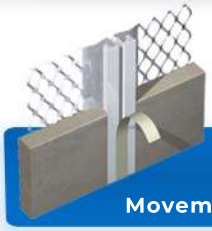

Adjustable head restraint


Angle Bead

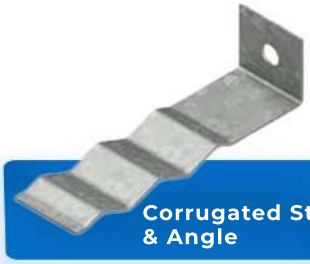

Plaster Stop Bead

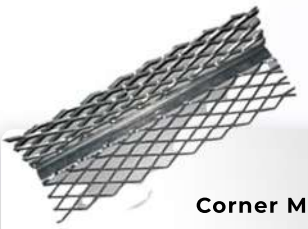

Control Joint

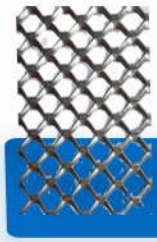

Architrave Bead


Movement Bead

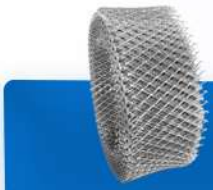

Depth Guage Beac

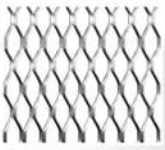

Corrugated Strip & Angle

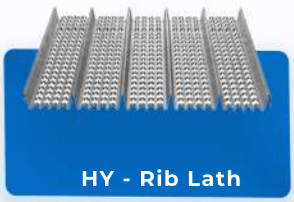

Corner Mesh


Metal Sheet Lath


Strip Mesh


Coil Lath


Expanded Metal Rib Lath


HY - Rib Lath

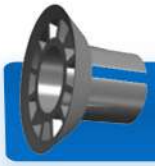
CONCRETE FORM WORK ACCESSORIES


Plywood


Tie Rods & Accessories


Timber


PVC Pipes


PVC Cones


PVC Chamfer


Rapid clamp


Shutter clamp


Concrete Spacer


Plastic Spacer


Steel Wire Mesh


Binding wire

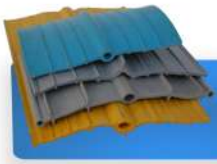
WATER PROOFING & THERMAL INSULATION

Bitumen Membrane

Rock Walls

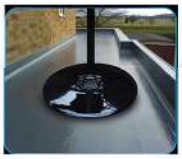
Geotextile

Extruded Polysterene

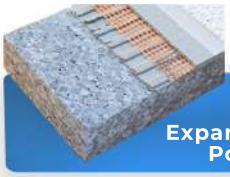


PVC Waterstop

Protection Boar d



Liquid Membrane



Expanded Polysterene

Foam Backing Rods

Polyethelene Sheet

Cork Sheet

Flashing Aluminiun

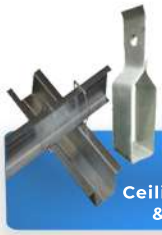
GYPSUM PARTITIONS & SUSPENDED CEILING

Gypsum Board

Cement Board

Access Panel

Studs & Runner



Ceiling Furing Channel & Channel Bracket

Perimeter & Dry Wal Angle

Furing Channel

Adjustable Rod Hanger

C- Bracket

Joint Mesh

Wire Connecting Cl

Gypsum Putty

Dry Wall & Self Drilling Screws

PIPE CLAMP, HANGERS & FIXING LETRING

Pipe Clamp With Rubber

Long Nut Pipe Clamp

Channel Clamp

U Clamp

Pipe Clamp (SNAP)

Beam Clamp

Conduit Clamp (Omega)

Clevis Pipe Hanger

Adjustable Band Hanger

Drop In Anchor

Anchor J Bolt

Steel U-Bolt

CLADDING ACCESSORIES

Z-Bracket With Returned Leg Horizontal Joint

Returned Leg Bracket

Up & Down Bracket

L- Bracket

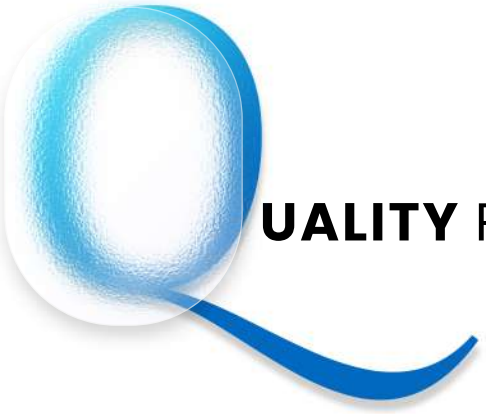
Unistrut Support System & ETC

Anchor Bolt

Through Bolt

Sleeve Anchor Flange Nut

Hex Bolt With Nut Washer & Spring Nut



QUALITY POLICY

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

NSF 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 consistently high quality, to enable the company to achieve 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 poricy and all aspects of the Quality Management System.

These requirements of Quality Policies are compared to the requirements of ISO 9001 2015-Quality Policy. NSF strives to eliminate.

شركة نبراس المعدن للصناعة

NIPRAS METAL INDUSTRY Co.

رؤية VISION 2030

المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

NIPRAS METAL GROUP

NMTC

NMIC

NMC