

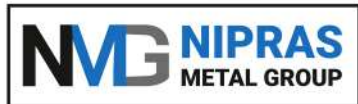


مصنع نبراس المعادن
NIPRAS STEEL FACTORY



CABLE TRAY CATALOGUE

رؤية
VISION
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



GENERAL INFORMATION

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

The information contained in this catalogue has been carefully compiled but we do not accept any responsibility for loss caused by any error contained herein. We reserve the right to alter prices without prior notice.

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



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ABOUT US

INTRODUCTION:

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.



OUR 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.



OUR 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.



OBJECTIVES

- **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.**



OUR ADDRESS & SHOWROOM LOCATION



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=CAISBjYuMzQuMxgAlNeCAw%3D%3D&g_st=iw

Nipras Metal Group.

Email: info@nipras.sa

Sales: 056 880 5050



مصنع نيراس المعادن
NIPRAS STEEL FACTORY

RESEARCH & DEVELOPMENT DEPARTMENT

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 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.



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.



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).

SOCIAL RESPONSIBILITIES

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



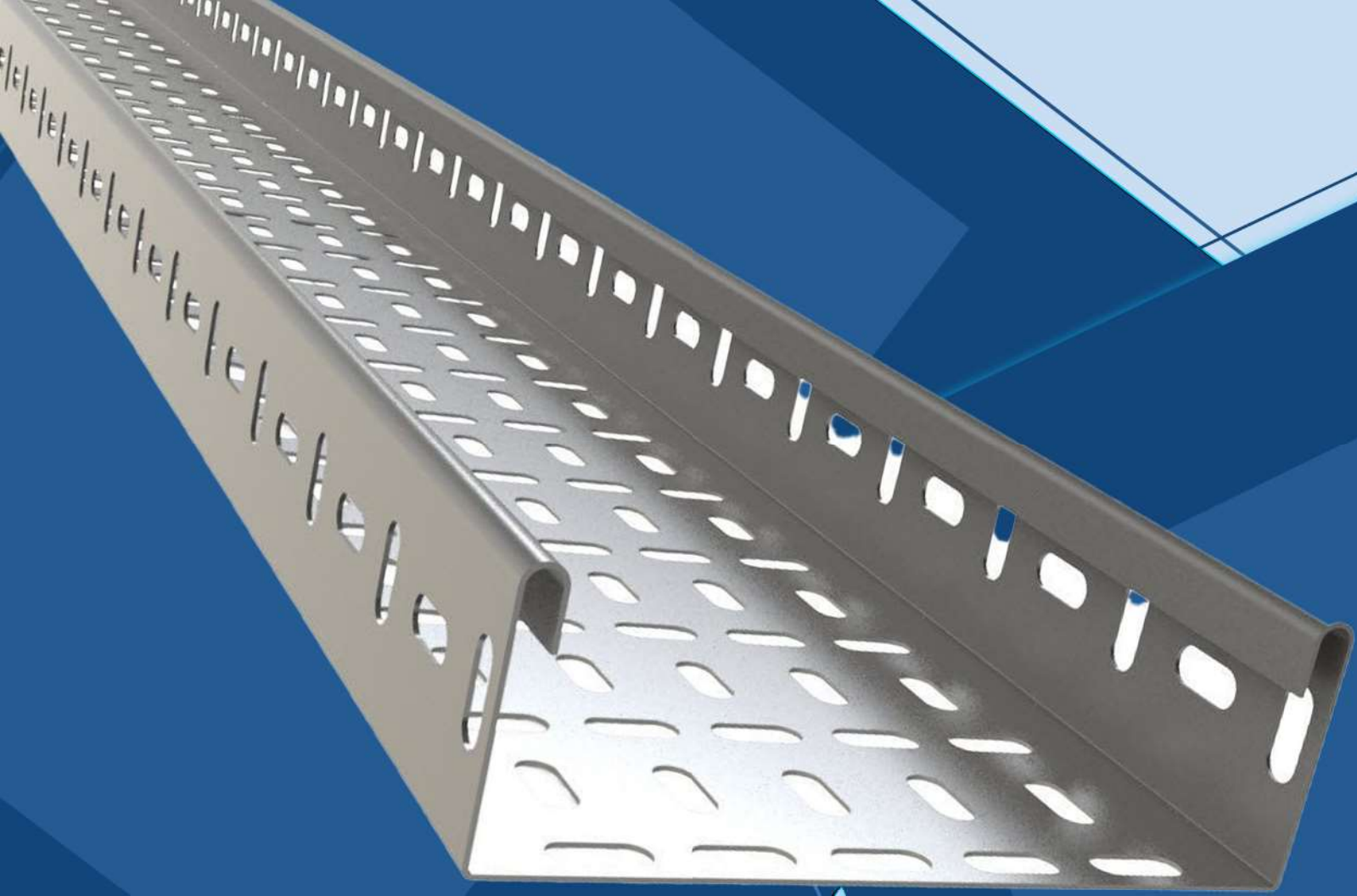
”NIPRAS” as a manufacturing Company for Metal & Steel Products has a large number of hazards because of the strong internal as well as external forward and backward linkages in terms of material flows. Employees are to work in hazardous environment because of complicated equipment layouts, high temperatures, 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.





CABLE TRAYS



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)

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.

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.

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.

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.



CABLE TRAY

Cable trays are mechanical support systems that provide a rigid structural system for electrical cables, raceways, and insulated conductors used for electric power distribution, control, signal instrumentation, and communication.

This catalogue helps the Engineers and contractors to choose the right product for construction and maintenance. Any customized / unique product not included in this catalogue can be designed and provided accordingly.

Cable Tray (Perforated / Plain)

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.

Manufacturing Standards - IEC 61537:2007, BS EN 61537:2007, NEMA VE 1 – 2009, NEMA VE 2 – 2006, NEC (ANSI / NFPA 70)

Material & Finish- Pre-Galvanized, Hot Dip Galvanized and Stainless Steel, Aluminium
Standard Length – 2.44 /3.00 mm

Thickness - 1.0mm to 3mm

Height - 25mm,40mm, 75mm and 100mm.

Width - 40mm, 50mm, 75mm, 100mm, 150mm, 300mm, 600mm, 750mm and 1000mm.

Different Types of product designs described below -



Cable Tray-Solid



Cable Tray-Perforated



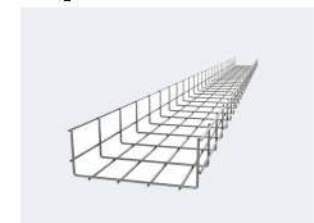
Cable Ladder -
Swaged Rounded Tubular



Cable Ladder - Welded



Cable Trunking (Solid)



Basket Tray
(Wire Mesh)

DIMENSIONS

NIPRAS Light Duty Cable Tray - NLCT - 100

Thickness : 1.00 mm

Side Height : 50 mm

Length : 2440 mm / 3000 mm

Width : 50 - 1000 mm

NIPRAS Medium Duty Cable Tray - NMCT - 120

Thickness : 1.20 mm

Side Height : 50 ,75 and 100 mm

Length : 2440 mm / 3000 mm

Width : 50 - 1000 mm

NIPRAS Heavy Duty Cable Tray - NHCT - 150

Thickness : 1.50 mm

Side Height : 50 ,75 and 100 mm

Length : 2440 mm / 3000 mm

Width : 50 - 1000 mm

NIPRAS Very Heavy Duty Cable Tray - VCT - 200

Thickness : 2.00 mm

Side Height : 50 ,75 and 100 mm

Length : 2440 mm / 3000 mm

Width : 50 - 1000 mm

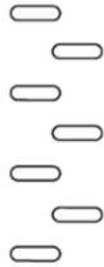
Custom sizes also available



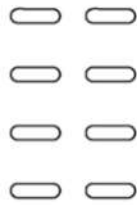
DIMENSIONS

TYPES OF PERFORATION

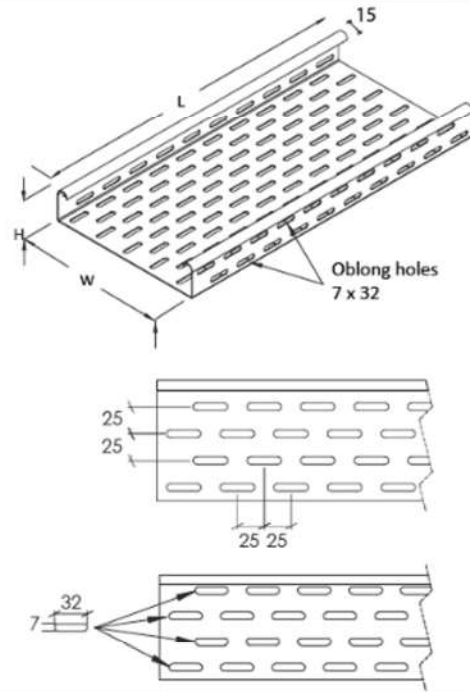
Staggered



Serial



DIMENSIONS



All illustrations, drawings and descriptive material in this publication are of a generally informative nature only, and do not form a complete package of the specifications or description of the goods. Most of the dimensions shown are nominal. NSF can make modifications and design, materials or finishes as it deems necessary or desirable as per the required standards.

MATERIAL & PRODUCT STANDARDS



NATIONAL ELECTRICAL CODE

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

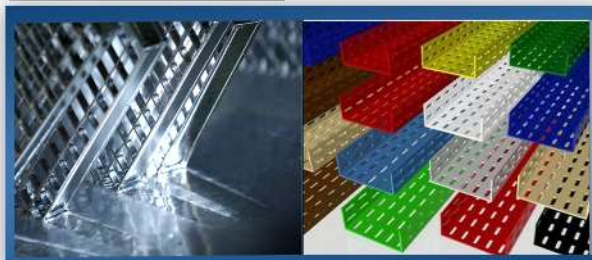
F.2 Stainless Steel Wire BS 1554, ASTM A 27

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

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



NLCT-25

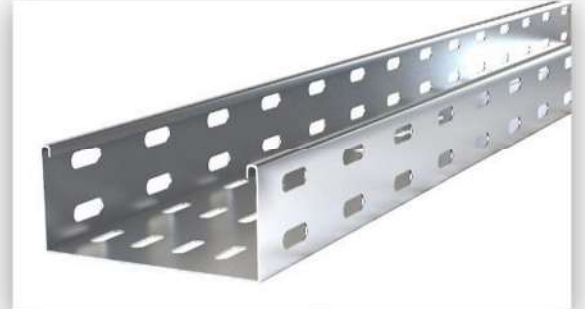
LIGHT DUTY - 1.00 mm Thickness

NLCT - 25

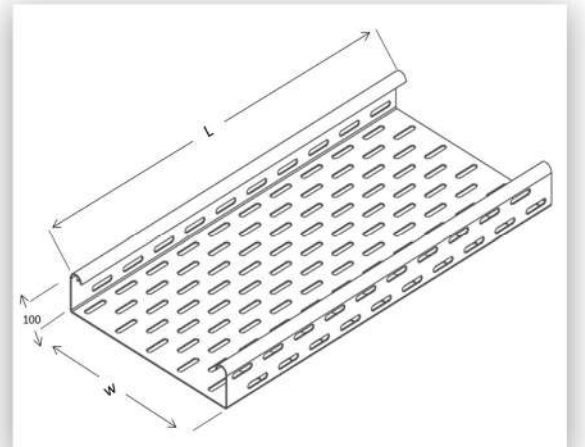
(Side Height 25 mm)

Length - 2400 mm / 3000 mm

Width : 50 - 300 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NLCT-A0	LCT 50 - 25 width (w) : 50 mm	1.00	0.65
		1.20	0.37
		1.50	0.18
		2.00	0.07
NLCT-A1	LCT 100 - 25 width (w) : 100 mm	1.00	0.75
		1.20	0.46
		1.50	0.23
		2.00	0.09
NLCT-A2	LCT 150 - 25 width (w) : 150 mm	1.00	0.68
		1.20	0.51
		1.50	0.25
		2.00	0.09
NLCT-A3	LCT 200 - 25 width (w) : 200 mm	1.00	0.68
		1.20	0.47
		1.50	0.26
		2.00	0.10
NLCT-A4	LCT 225 - 25 width (w) : 225 mm	1.00	0.52
		1.20	0.36
		1.50	0.22
		2.00	0.10
NLCT-A5	LCT 300 - 25 width (w) : 300 mm	1.00	0.27
		1.20	0.18
		1.50	0.10
		2.00	0.04



For Ordering Details
Refer Pg 52

NLCT-50

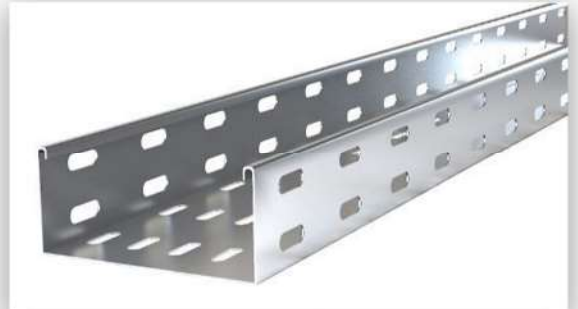
LIGHT DUTY - 1.00 mm Thickness

NLCT - 50

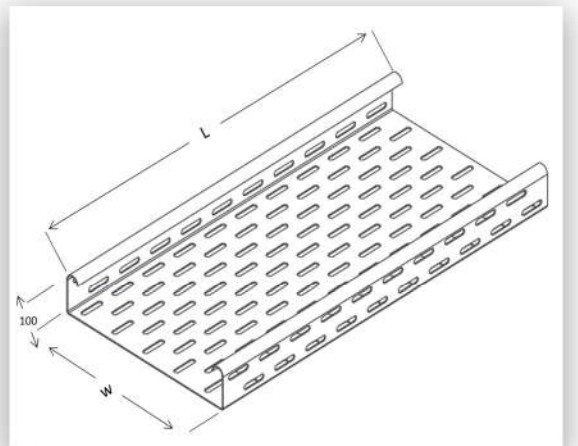
(Side Height 50 mm)

Length : 2440 mm / 3000 mm

Width : 50 - 450 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NLCT-B0	LCT 50 - 50 width (w) : 50 mm	1.00	1.92
		1.20	1.33
		1.50	0.84
		2.00	0.40
NLCT-B1	LCT 100 - 50 width (w) : 100 mm	1.00	2.10
		1.20	1.45
		1.50	0.92
		2.00	0.50
NLCT-B2	LCT 150 - 50 width (w) : 150 mm	1.00	2.19
		1.20	1.50
		1.50	0.96
		2.00	0.53
NLCT-B3	LCT 200 - 50 width (w) : 200 mm	1.00	1.73
		1.20	1.48
		1.50	0.94
		2.00	0.52
NLCT-B4	LCT 225 - 50 width (w) : 225 mm	1.00	1.52
		1.20	1.13
		1.50	0.72
		2.00	0.39
NLCT-B5	LCT 300 - 50 width (w) : 300 mm	1.00	0.87
		1.20	0.59
		1.50	0.37
		2.00	0.19
NLCT-B6	LCT 400 - 50 width (w) : 400 mm	1.00	0.45
		1.20	0.30
		1.50	0.18
		2.00	0.08
NLCT-B7	LCT 450 - 50 width (w) : 450 mm	1.00	0.34
		1.20	0.22
		1.50	0.13
		2.00	0.05



For Ordering Details
Refer Pg 52

NMCT-50

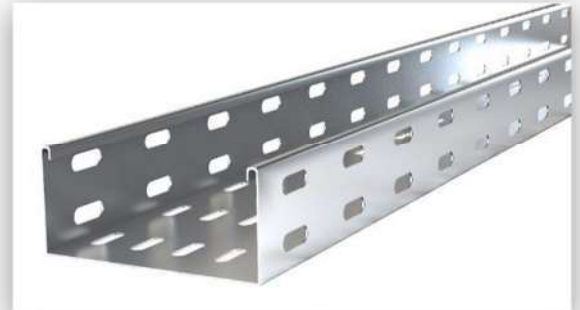
MEDIUM DUTY - 1.20 mm Thickness

NMCT - 50

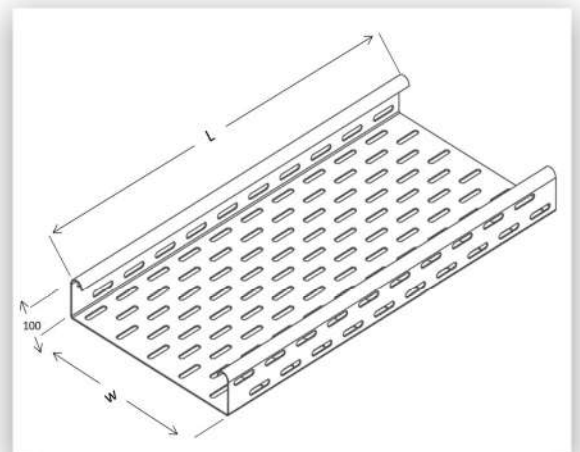
(Side Height 50 mm)

Length : 2440 mm / 3000 mm

Width : 50 - 450 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NMCT-B0	MCT 50 - 50 width (w) : 50 mm	1.00	2.29
		1.20	1.59
		1.50	1.01
		2.00	0.48
NMCT-B1	MCT 100 - 50 width (w) : 100 mm	1.00	2.51
		1.20	1.74
		1.50	1.10
		2.00	0.60
NMCT-B2	MCT 150 - 50 width (w) : 150 mm	1.00	2.62
		1.20	1.80
		1.50	1.15
		2.00	0.63
NMCT-B3	MCT 200 - 50 width (w) : 200 mm	1.00	2.48
		1.20	1.85
		1.50	1.17
		2.00	0.65
NMCT-B4	MCT 225 - 50 width (w) : 225 mm	1.00	2.20
		1.20	1.85
		1.50	1.18
		2.00	0.65
NMCT-B5	MCT 300 - 50 width (w) : 300 mm	1.00	1.52
		1.20	1.04
		1.50	0.65
		2.00	0.35
NMCT-B6	MCT 400 - 50 width (w) : 400 mm	1.00	0.80
		1.20	0.54
		1.50	0.33
		2.00	0.16
NMCT-B7	MCT 450 - 50 width (w) : 450 mm	1.00	0.61
		1.20	0.41
		1.50	0.24
		2.00	0.11



**For Ordering Details
Refer Pg 52**



NMCT-75

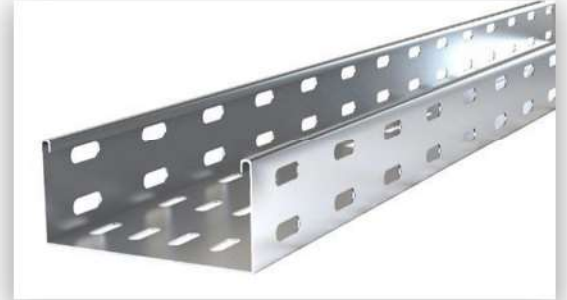
MEDIUM DUTY - 1.20 mm Thickness

NMCT - 75

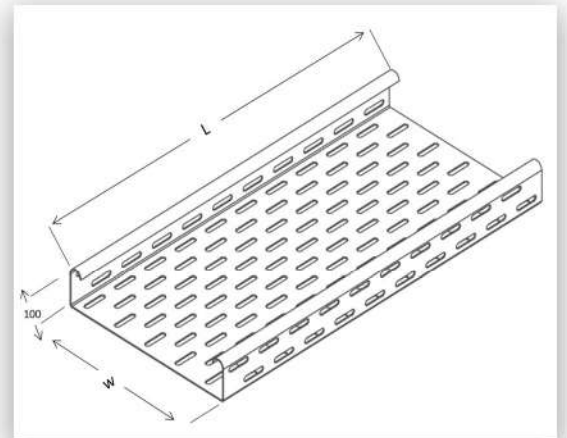
(Side Height 75 mm)

Length : 2440 mm / 3000 mm

Width : 100 - 450 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NMCT-C0	MCT 100 - 75 width (w) : 100 mm	1.00	4.45
		1.20	3.26
		1.50	2.08
		2.00	1.16
NMCT-C1	MCT 150 - 75 width (w) : 150 mm	1.00	4.53
		1.20	3.32
		1.50	2.19
		2.00	1.22
NMCT-C2	MCT 200 - 75 width (w) : 200 mm	1.00	2.48
		1.20	2.48
		1.50	2.26
		2.00	1.25
NMCT-C3	MCT 225 - 75 width (w) : 225 mm	1.00	2.20
		1.20	2.20
		1.50	2.20
		2.00	1.27
NMCT-C4	MCT 300 - 75 width (w) : 300 mm	1.00	1.63
		1.20	1.63
		1.50	1.37
		2.00	0.75
NMCT-C5	MCT 400 - 75 width (w) : 400 mm	1.00	1.21
		1.20	1.14
		1.50	0.71
		2.00	0.38
NMCT-C6	MCT 450 - 75 width (w) : 450 mm	1.00	1.06
		1.20	0.87
		1.50	0.54
		2.00	0.28



For Ordering Details
Refer Pg 52

NMCT-100

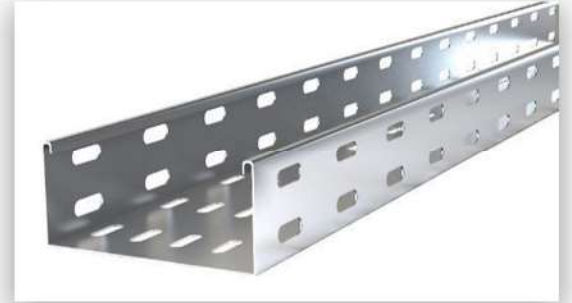
MEDIUM DUTY - 1.20 mm Thickness

NMCT - 100

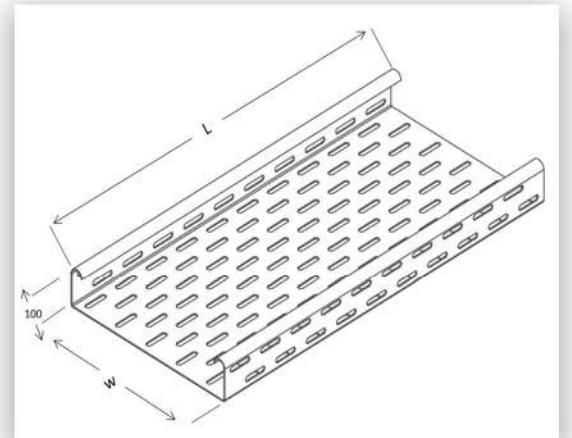
(Side Height 100 mm)

Length : 2440 mm / 3000 mm

Width : 100 - 450 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NMCT-D0	MCT 100 - 100 width (w) : 100 mm	1.00	5.00
		1.20	4.86
		1.50	3.30
		2.00	1.84
NMCT-D1	MCT 150 - 100 width (w) : 150 mm	1.00	3.32
		1.20	3.32
		1.50	3.03
		2.00	1.95
NMCT-D2	MCT 200 - 100 width (w) : 200 mm	1.00	2.47
		1.20	2.47
		1.50	2.47
		2.00	2.02
NMCT-D3	MCT 225 - 75 width (w) : 225 mm	1.00	2.19
		1.20	2.19
		1.50	2.19
		2.00	2.05
NMCT-D4	MCT 300 - 100 width (w) : 300 mm	1.00	1.63
		1.20	1.63
		1.50	1.63
		2.00	1.30
NMCT-D5	MCT 400 - 100 width (w) : 400 mm	1.00	1.20
		1.20	1.20
		1.50	1.20
		2.00	0.67
NMCT-D6	MCT 450 - 100 width (w) : 450 mm	1.00	1.06
		1.20	1.06
		1.50	0.94
		2.00	0.50



For Ordering Details
Refer Pg 52

NHCT-50

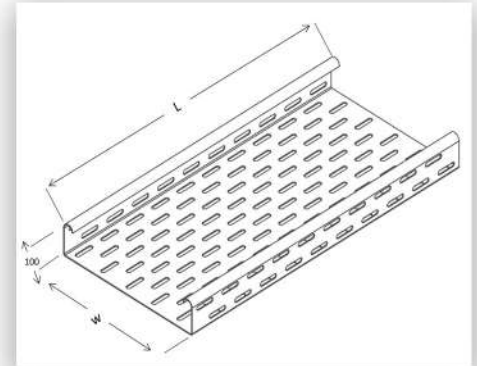
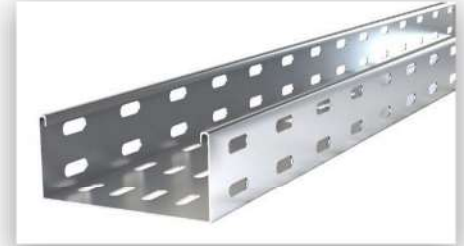
HEAVY DUTY - 1.50 mm Thickness

NHCT - 50

(Side Height 50 mm)

Length : 2440 mm / 3000 mm

Width : 50 - 900 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NHCT-A0	HCT 50 - 50 width (w) : 50 mm	1.00	2.85
		1.20	1.97
		1.50	1.25
		2.00	0.6
NHCT-A1	HCT 100 - 50 width (w) : 100 mm	1.00	3.12
		1.20	2.16
		1.50	1.37
		2.00	0.76
NHCT-A2	HCT 150 - 50 width (w) : 150 mm	1.00	3.25
		1.20	2.25
		1.50	1.43
		2.00	0.78
NHCT-A3	HCT 200 - 50 width (w) : 200 mm	1.00	3.3
		1.20	2.3
		1.50	1.45
		2.00	0.8
NHCT-A4	HCT 225 - 50 width (w) : 225 mm	1.00	3.33
		1.20	2.32
		1.50	1.47
		2.00	0.8
NHCT-A5	HCT 300 - 50 width (w) : 300 mm	1.00	2.57
		1.20	2.06
		1.50	1.3
		2.00	0.7
NHCT-A6	HCT 400 - 50 width (w) : 400 mm	1.00	1.6
		1.20	1.05
		1.50	0.65
		2.00	0.35
NHCT-A7	HCT 450 - 50 width (w) : 450 mm	1.00	1.23
		1.20	0.83
		1.50	0.5
		2.00	0.25
NHCT-A8	HCT 500 - 50 width (w) : 500 mm	1.00	0.95
		1.20	0.65
		1.50	0.35
		2.00	0.19
NHCT-A9	HCT 600 - 50 width (w) : 600 mm	1.00	0.63
		1.20	0.41
		1.50	0.24
		2.00	0.1
NHCT-A10	HCT 700 - 50 width (w) : 700 mm	1.00	0.43
		1.20	0.27
		1.50	0.14
		2.00	X
NHCT-A11	HCT 750 - 50 width (w) : 750 mm	1.00	0.35
		1.20	0.22
		1.50	0.1
		2.00	X
NHCT-A12	HCT 900 - 50 width (w) : 900 mm	1.00	0.2
		1.20	0.1
		1.50	0.03
		2.00	X

For Ordering Details
Refer Pg 52

NHCT-75

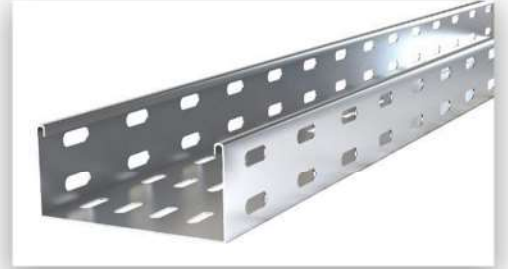
HEAVY DUTY - 1.50 mm Thickness

NHCT - 75

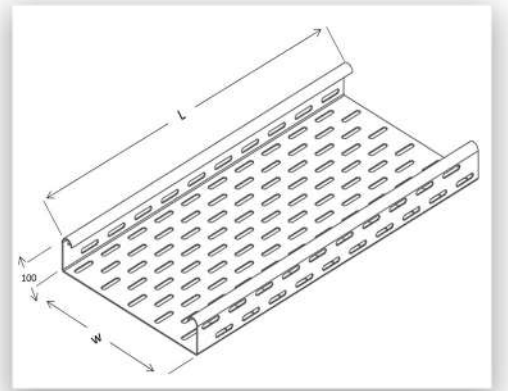
(Side Height 75 mm)

Length : 2440 mm / 3000 mm

Width : 100 - 700 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NHCT-B0	HCT 100 - 75 width (w) : 100 mm	1	5.5
		1.2	4.05
		1.5	2.55
		2	1.42
NHCT-B1	HCT 150 - 75 width (w) : 150 mm	1	5.2
		1.2	4.2
		1.5	2.7
		2	1.5
NHCT-B2	HCT 200 - 75 width (w) : 200 mm	1	3.89
		1.2	3.89
		1.5	2.8
		2	1.56
NHCT-B3	HCT 225 - 75 width (w) : 225 mm	1	3.45
		1.2	3.45
		1.5	2.85
		2	1.58
NHCT-B4	HCT 300 - 75 width (w) : 300 mm	1	2.57
		1.2	2.57
		1.5	2.57
		2	1.49
NHCT-B5	HCT 400 - 75 width (w) : 400 mm	1	1.9
		1.2	1.9
		1.5	1.43
		2	0.77
NHCT-B6	HCT 450 - 75 width (w) : 450 mm	1	1.68
		1.2	1.68
		1.5	1.08
		2	0.58
NHCT-B7	HCT 500 - 75 width (w) : 500 mm	1	1.5
		1.2	1.38
		1.5	0.86
		2	0.45
NHCT-B8	HCT 600 - 75 width (w) : 600 mm	1	1.22
		1.2	0.9
		1.5	0.55
		2	0.27
NHCT-B9	HCT 700 - 75 width (w) : 700 mm	1	0.94
		1.2	0.63
		1.5	0.37
		2	0.16



For Ordering Details
Refer Pg 52



NHCT-100

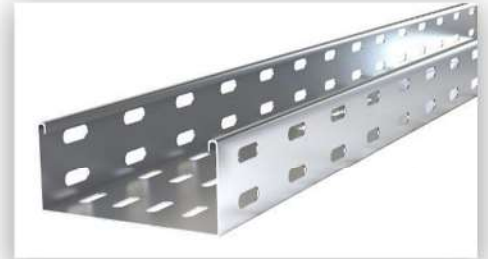
HEAVY DUTY - 1.50 mm Thickness

NHCT - 100

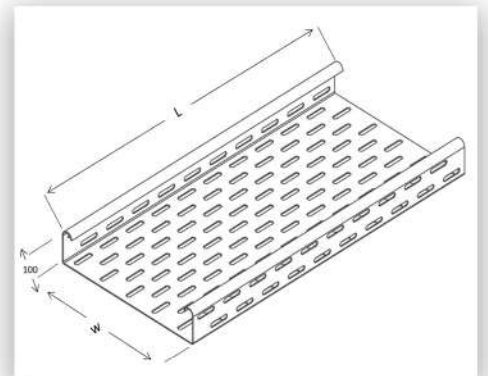
(Side Height 100 mm)

Length : 2440 mm / 3000 mm

Width : 100 - 700 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NHCT-C0	HCT 100 - 100 width (w) : 100 mm	1	7.82
		1.2	6.07
		1.5	4.10
		2	2.30
NHCT-C1	HCT 150 - 100 width (w) : 150 mm	1	5.19
		1.2	5.19
		1.5	4.35
		2	2.42
NHCT-C2	HCT 200 - 100 width (w) : 200 mm	1	3.88
		1.2	3.88
		1.5	3.88
		2	2.52
NHCT-C3	HCT 225 - 100 width (w) : 225 mm	1	3.44
		1.2	3.44
		1.5	3.44
		2	2.56
NHCT-C4	HCT 300 - 100 width (w) : 300 mm	1	2.56
		1.2	2.56
		1.5	2.56
		2	2.56
NHCT-C5	HCT 400 - 100 width (w) : 400 mm	1	1.89
		1.2	1.89
		1.5	1.89
		2	1.35
NHCT-C6	HCT 450 - 100 width (w) : 450 mm	1	1.67
		1.2	1.67
		1.5	1.67
		2	1.00
NHCT-C7	HCT 500 - 100 width (w) : 500 mm	2.5	0.63
		1	1.49
		1.2	1.49
		1.5	1.49
NHCT-C8	HCT 600 - 100 width (w) : 600 mm	2	0.80
		1	1.22
		1.2	1.22
		1.5	0.98
NHCT-C9	HCT 700 - 100 width (w) : 700 mm	2	0.50
		1	1.02
		1.2	1.02
		1.5	0.67
		2	0.33



For Ordering Details
Refer Pg 52

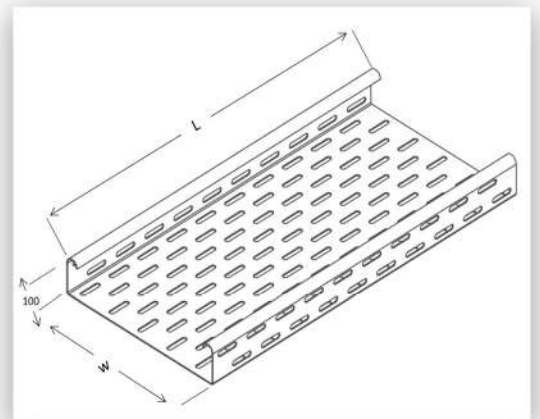


NVCT-25

VERY HEAVY DUTY - 2.00 mm Thickness
NVCT - 25
(Side Height 25 mm)
Length : 2440 mm / 3000 mm
Width : 50 - 450 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NVCT-A0	VCT 50 - 25 width (w) : 50 mm	1.00	1.23
		1.20	0.70
		1.50	0.35
		2.00	0.14
NVCT-A1	VCT 100 - 25 width (w) : 100 mm	1.00	1.45
		1.20	0.88
		1.50	0.42
		2.00	0.17
NVCT-A2	VCT 150 - 25 width (w) : 150 mm	1.00	1.48
		1.20	0.98
		1.50	0.48
		2.00	0.18
NVCT-A3	VCT 200 - 25 width (w) : 200 mm	1.00	1.50
		1.20	1.03
		1.50	0.50
		2.00	0.18
NVCT-A4	VCT 225 - 25 width (w) : 225 mm	1.00	1.50
		1.20	1.03
		1.50	0.52
		2.00	0.18
NVCT-A5	VCT 300 - 25 width (w) : 300 mm	1.00	1.52
		1.20	1.04
		1.50	0.53
		2.00	0.18
NVCT-A6	VCT 400 - 25 width (w) : 400 mm	1.00	1.20
		1.20	0.82
		1.50	0.50
		2.00	0.18
NVCT-A7	VCT 450 - 25 width (w) : 450 mm	1.00	0.92
		1.20	0.62
		1.50	0.37
		2.00	0.18



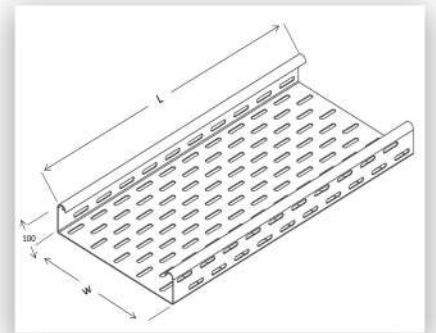
**For Ordering Details
Refer Pg 52**

NVCT-50

VERY HEAVY DUTY - 2.00 mm Thickness
NVCT - 50
(Side Height 50 mm)
Length : 2440 mm / 3000 mm
Width : 50 - 1000 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NVCT-B0	VCT 50 - 50 width (w) : 50 mm	1.00	3.77
		1.20	2.6
		1.50	1.65
		2.00	0.78
NVCT-B1	VCT 100 - 50 width (w) : 100 mm	1.00	4.13
		1.20	2.86
		1.50	1.83
		2.00	1
NVCT-B2	VCT 150 - 50 width (w) : 150 mm	1.00	4.3
		1.20	2.98
		1.50	1.88
		2.00	1.05
NVCT-B3	VCT 200 - 50 width (w) : 200 mm	1.00	4.4
		1.20	3.05
		1.50	1.92
		2.00	1.07
NVCT-B4	VCT 225 - 50 width (w) : 225 mm	1.00	4.43
		1.20	3.06
		1.50	1.95
		2.00	1.07
NVCT-B5	VCT 300 - 50 width (w) : 300 mm	1.00	4.47
		1.20	3.12
		1.50	1.97
		2.00	1.08
NVCT-B6	VCT 400 - 50 width (w) : 400 mm	1.00	3.42
		1.20	2.64
		1.50	1.66
		2.00	0.9
NVCT-B7	VCT 450 - 50 width (w) : 500 mm	1.00	2.97
		1.20	2.04
		1.50	1.27
		2.00	0.68
NVCT-B8	VCT 500 - 50 width (w) : 600 mm	1.00	2.36
		1.20	1.6
		1.50	1
		2.00	0.5
NVCT-B9	VCT 600 - 50 width (w) : 600 mm	1.00	1.57
		1.20	1.06
		1.50	0.64
		2.00	0.32
NVCT-B10	VCT 700 - 50 width (w) : 700 mm	1.00	1.1
		1.20	0.72
		1.50	0.42
		2.00	0.19
NVCT-B11	VCT 800 - 50 width (w) : 800 mm	1.00	0.8
		1.20	0.5
		1.50	0.28
		2.00	0.1
NVCT-B12	VCT 900 - 50 width (w) : 900 mm	1.00	0.58
		1.20	0.36
		1.50	0.18
		2.00	X
NVCT-B13	VCT 1000 - 50 width (w) : 1000 mm	1.00	0.43
		1.20	0.25
		1.50	0.1
		2.00	X



For Ordering Details
Refer Pg 52

NVCT-75

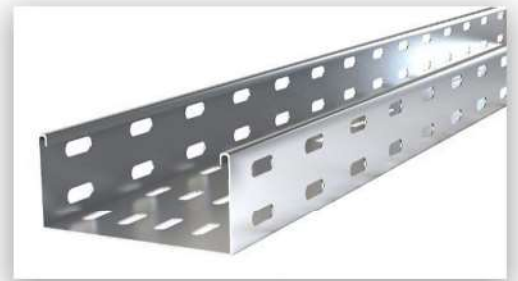
VERY HEAVY DUTY - 2.00 mm Thickness

NVCT - 75

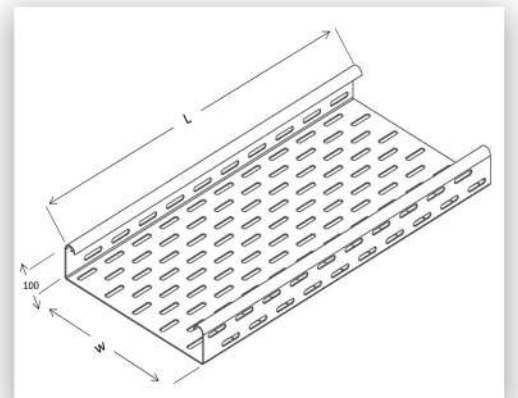
(Side Height 75 mm)

Length : 2440 mm / 3000 mm

Width : 100 - 1000 mm



Item code	Cable Tray	Support Distance (m)	Load kN/m
NVCT-C0	VCT 100 - 75 width (w) : 100 mm	1	7.31
		1.2	5.39
		1.5	3.44
		2	1.92
NVCT-C1	VCT 150 - 75 width (w) : 150 mm	1	7.52
		1.2	5.62
		1.5	3.62
		2	2.02
NVCT-C2	VCT 200 - 75 width (w) : 200 mm	1	6.92
		1.2	5.72
		1.5	3.73
		2	2.07
NVCT-C3	VCT 300 - 75 width (w) : 300 mm	1	4.58
		1.2	4.58
		1.5	3.86
		2	2.13
NVCT-C4	VCT 400 - 75 width (w) : 400 mm	1	3.4
		1.2	3.4
		1.5	3.4
		2	1.9
NVCT-C5	VCT 450 - 75 width (w) : 450 mm	1	3
		1.2	3
		1.5	2.65
		2	1.45
NVCT-C6	VCT 500 - 75 width (w) : 500 mm	1	2.7
		1.2	2.7
		1.5	2.1
		2	1.13
NVCT-C7	VCT 600 - 75 width (w) : 600 mm	1	2.22
		1.2	2.22
		1.5	1.38
		2	0.73
NVCT-C8	VCT 700 - 75 width (w) : 700 mm	1	1.87
		1.2	1.58
		1.5	0.95
		2	0.49
NVCT-C9	VCT 800 - 75 width (w) : 800 mm	1	1.6
		1.2	1.15
		1.5	0.68
		2	0.33
NVCT-C10	VCT 900 - 75 width (w) : 900 mm	1	1.3
		1.2	0.86
		1.5	0.5
		2	0.21
NVCT-C11	VCT 1000 - 75 width (w) : 1000 mm	1	1.01
		1.2	0.65
		1.5	0.36
		2	0.13



For Ordering Details
Refer Pg 52

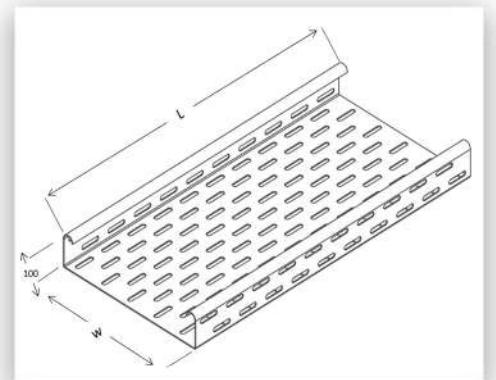


NVCT-100

VERY HEAVY DUTY - 2.00 mm Thickness
NVCT - 100
(Side Height 100 mm)
Length : 2440 mm / 3000 mm
Width : 100 - 1000 mm

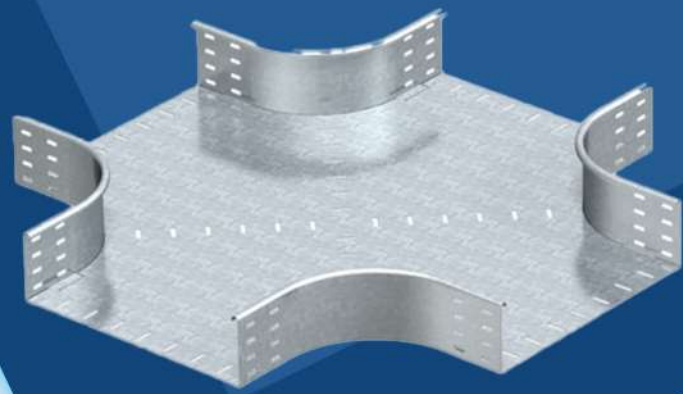


Item code	Cable Tray	Support Distance (m)	Load kN/m
NVCT-D0	VCT 100 - 100 width (w) : 100 mm	1	10.65
		1.2	8.07
		1.5	5.46
		2	3.05
NVCT-D1	VCT 150 - 100 width (w) : 150 mm	1	9.25
		1.2	8.34
		1.5	5.78
		2	3.23
NVCT-D2	VCT 200 - 100 width (w) : 200 mm	1	6.92
		1.2	6.92
		1.5	5.95
		2	3.35
NVCT-D3	VCT 300 - 100 width (w) : 300 mm	1	4.58
		1.2	4.58
		1.5	4.58
		2	3.48
NVCT-D4	VCT 400 - 100 width (w) : 400 mm	1	3.40
		1.2	3.40
		1.5	3.40
		2	3.25
NVCT-D5	VCT 500 - 100 width (w) : 500 mm	1	2.69
		1.2	2.69
		1.5	2.69
		2	1.98
NVCT-D6	VCT 600 - 100 width (w) : 600 mm	1	2.20
		1.2	2.20
		1.5	2.20
		2	1.30
NVCT-D7	VCT 700 - 100 width (w) : 700 mm	1	1.86
		1.2	1.86
		1.5	1.70
		2	0.90
NVCT-D8	VCT 800 - 100 width (w) : 800 mm	1	1.60
		1.2	1.60
		1.5	1.23
		2	0.63
NVCT-D9	VCT 900 - 100 width (w) : 900 mm	1	1.39
		1.2	1.39
		1.5	0.92
		2	0.45
NVCT-D10	VCT 1000 - 100 width (w) : 1000 mm	1	1.79
		1.2	1.18
		1.5	0.70
		2	0.32



For Ordering Details
Refer Pg 52





CABLE TRAY FITTINGS



Horizontal Bend 45°

Horizontal Bend 45°				
Side Height (50 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NHB-45-L-A	NHB-45-M-A	NHB-45-H-A	NHB-45-V-A
100	NHB-45-L-B	NHB-45-M-B	NHB-45-H-B	NHB-45-V-B
150	NHB-45-L-C	NHB-45-M-C	NHB-45-H-C	NHB-45-V-C
200	NHB-45-L-D	NHB-45-M-D	NHB-45-H-D	NHB-45-V-D
225	NHB-45-L-E	NHB-45-M-E	NHB-45-H-E	NHB-45-V-E
300	NHB-45-L-F	NHB-45-M-F	NHB-45-H-F	NHB-45-V-F
400	NHB-45-L-G	NHB-45-M-G	NHB-45-H-G	NHB-45-V-G
450	NHB-45-L-H	NHB-45-M-H	NHB-45-H-H	NHB-45-V-H
500	NHB-45-L-I	NHB-45-M-I	NHB-45-H-I	NHB-45-V-I
600	NHB-45-L-J	NHB-45-M-J	NHB-45-H-J	NHB-45-V-J
700	NHB-45-L-K	NHB-45-M-K	NHB-45-H-K	NHB-45-V-K
750	NHB-45-L-L	NHB-45-M-L	NHB-45-H-L	NHB-45-V-L
800	NHB-45-L-M	NHB-45-M-M	NHB-45-H-M	NHB-45-V-M
900	NHB-45-L-N	NHB-45-M-N	NHB-45-H-N	NHB-45-V-N
1000	NHB-45-L-O	NHB-45-M-O	NHB-45-H-O	NHB-45-V-O



Horizontal Bend 45°			
Side Height (75 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NHB-45-M-A1	NHB-45-H-A1	NHB-45-V-A1
100	NHB-45-M-B1	NHB-45-H-B1	NHB-45-V-B1
150	NHB-45-M-C1	NHB-45-H-C1	NHB-45-V-C1
200	NHB-45-M-D1	NHB-45-H-D1	NHB-45-V-D1
225	NHB-45-M-E1	NHB-45-H-E1	NHB-45-V-E1
300	NHB-45-M-F1	NHB-45-H-F1	NHB-45-V-F1
400	NHB-45-M-G1	NHB-45-H-G1	NHB-45-V-G1
450	NHB-45-M-H1	NHB-45-H-H1	NHB-45-V-H1
500	NHB-45-M-I1	NHB-45-H-I1	NHB-45-V-I1
600	NHB-45-M-J1	NHB-45-H-J1	NHB-45-V-J1
700	NHB-45-M-K1	NHB-45-H-K1	NHB-45-V-K1
750	NHB-45-M-L1	NHB-45-H-L1	NHB-45-V-L1
800	NHB-45-M-M1	NHB-45-H-M1	NHB-45-V-M1
900	NHB-45-M-N1	NHB-45-H-N1	NHB-45-V-N1
1000	NHB-45-M-O1	NHB-45-H-O1	NHB-45-V-O1

Horizontal Bend 45°			
Side Height (100 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NHB-45-M-A2	NHB-45-H-A2	NHB-45-V-A2
100	NHB-45-M-B2	NHB-45-H-B2	NHB-45-V-B2
150	NHB-45-M-C2	NHB-45-H-C2	NHB-45-V-C2
200	NHB-45-M-D2	NHB-45-H-D2	NHB-45-V-D2
225	NHB-45-M-E2	NHB-45-H-E2	NHB-45-V-E2
300	NHB-45-M-F2	NHB-45-H-F2	NHB-45-V-F2
400	NHB-45-M-G2	NHB-45-H-G2	NHB-45-V-G2
450	NHB-45-M-H2	NHB-45-H-H2	NHB-45-V-H2
500	NHB-45-M-I2	NHB-45-H-I2	NHB-45-V-I2
600	NHB-45-M-J2	NHB-45-H-J2	NHB-45-V-J2
700	NHB-45-M-K2	NHB-45-H-K2	NHB-45-V-K2
750	NHB-45-M-L2	NHB-45-H-L2	NHB-45-V-L2
800	NHB-45-M-M2	NHB-45-H-M2	NHB-45-V-M2
900	NHB-45-M-N2	NHB-45-H-N2	NHB-45-V-N2
1000	NHB-45-M-O2	NHB-45-H-O2	NHB-45-V-O2

For Ordering Details
Refer Pg 52



Horizontal Bend 90°

Horizontal Bend 90°				
Side Height (50 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NHB-90-L-A	NHB-90-M-A	NHB-90-H-A	NHB-90-V-A
100	NHB-90-L-B	NHB-90-M-B	NHB-90-H-B	NHB-90-V-B
150	NHB-90-L-C	NHB-90-M-C	NHB-90-H-C	NHB-90-V-C
200	NHB-90-L-D	NHB-90-M-D	NHB-90-H-D	NHB-90-V-D
225	NHB-90-L-E	NHB-90-M-E	NHB-90-H-E	NHB-90-V-E
300	NHB-90-L-F	NHB-90-M-F	NHB-90-H-F	NHB-90-V-F
400	NHB-90-L-G	NHB-90-M-G	NHB-90-H-G	NHB-90-V-G
450	NHB-90-L-H	NHB-90-M-H	NHB-90-H-H	NHB-90-V-H
500	NHB-90-L-I	NHB-90-M-I	NHB-90-H-I	NHB-90-V-I
600	NHB-90-L-J	NHB-90-M-J	NHB-90-H-J	NHB-90-V-J
700	NHB-90-L-K	NHB-90-M-K	NHB-90-H-K	NHB-90-V-K
750	NHB-90-L-L	NHB-90-M-L	NHB-90-H-L	NHB-90-V-L
800	NHB-90-L-M	NHB-90-M-M	NHB-90-H-M	NHB-90-V-M
900	NHB-90-L-N	NHB-90-M-N	NHB-90-H-N	NHB-90-V-N
1000	NHB-90-L-O	NHB-90-M-O	NHB-90-H-O	NHB-90-V-O



Horizontal Bend 90°			
Side Height (75 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NHB-90-M-A1	NHB-90-H-A1	NHB-90-V-A1
100	NHB-90-M-B1	NHB-90-H-B1	NHB-90-V-B1
150	NHB-90-M-C1	NHB-90-H-C1	NHB-90-V-C1
200	NHB-90-M-D1	NHB-90-H-D1	NHB-90-V-D1
225	NHB-90-M-E1	NHB-90-H-E1	NHB-90-V-E1
300	NHB-90-M-F1	NHB-90-H-F1	NHB-90-V-F1
400	NHB-90-M-G1	NHB-90-H-G1	NHB-90-V-G1
450	NHB-90-M-H1	NHB-90-H-H1	NHB-90-V-H1
500	NHB-90-M-I1	NHB-90-H-I1	NHB-90-V-I1
600	NHB-90-M-J1	NHB-90-H-J1	NHB-90-V-J1
700	NHB-90-M-K1	NHB-90-H-K1	NHB-90-V-K1
750	NHB-90-M-L1	NHB-90-H-L1	NHB-90-V-L1
800	NHB-90-M-M1	NHB-90-H-M1	NHB-90-V-M1
900	NHB-90-M-N1	NHB-90-H-N1	NHB-90-V-N1
1000	NHB-90-M-O1	NHB-90-H-O1	NHB-90-V-O1

Horizontal Bend 90°			
Side Height (100 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NHB-90-M-A2	NHB-90-H-A2	NHB-90-V-A2
100	NHB-90-M-B2	NHB-90-H-B2	NHB-90-V-B2
150	NHB-90-M-C2	NHB-90-H-C2	NHB-90-V-C2
200	NHB-90-M-D2	NHB-90-H-D2	NHB-90-V-D2
225	NHB-90-M-E2	NHB-90-H-E2	NHB-90-V-E2
300	NHB-90-M-F2	NHB-90-H-F2	NHB-90-V-F2
400	NHB-90-M-G2	NHB-90-H-G2	NHB-90-V-G2
450	NHB-90-M-H2	NHB-90-H-H2	NHB-90-V-H2
500	NHB-90-M-I2	NHB-90-H-I2	NHB-90-V-I2
600	NHB-90-M-J2	NHB-90-H-J2	NHB-90-V-J2
700	NHB-90-M-K2	NHB-90-H-K2	NHB-90-V-K2
750	NHB-90-M-L2	NHB-90-H-L2	NHB-90-V-L2
800	NHB-90-M-M2	NHB-90-H-M2	NHB-90-V-M2
900	NHB-90-M-N2	NHB-90-H-N2	NHB-90-V-N2
1000	NHB-90-M-O2	NHB-90-H-O2	NHB-90-V-O2

For Ordering Details
Refer Pg 52



Tee Branch

Tee Branch - NTB				
Side Height (50 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NTB-L-A	NTB-M-A	NTB-H-A	NTB-V-A
100	NTB-L-B	NTB-M-B	NTB-H-B	NTB-V-B
150	NTB-L-C	NTB-M-C	NTB-H-C	NTB-V-C
200	NTB-L-D	NTB-M-D	NTB-H-D	NTB-V-D
225	NTB-L-E	NTB-M-E	NTB-H-E	NTB-V-E
300	NTB-L-F	NTB-M-F	NTB-H-F	NTB-V-F
400	NTB-L-G	NTB-M-G	NTB-H-G	NTB-V-G
450	NTB-L-H	NTB-M-H	NTB-H-H	NTB-V-H
500	NTB-L-I	NTB-M-I	NTB-H-I	NTB-V-I
600	NTB-L-J	NTB-M-J	NTB-H-J	NTB-V-J
700	NTB-L-K	NTB-M-K	NTB-H-K	NTB-V-K
750	NTB-L-L	NTB-M-L	NTB-H-L	NTB-V-L
800	NTB-L-M	NTB-M-M	NTB-H-M	NTB-V-M
900	NTB-L-N	NTB-M-N	NTB-H-N	NTB-V-N
1000	NTB-L-O	NTB-M-O	NTB-H-O	NTB-V-O



Tee Branch			
Side Height (75 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NTB-M-A1	NTB-H-A1	NTB-V-A1
100	NTB-M-B1	NTB-H-B1	NTB-V-B1
150	NTB-M-C1	NTB-H-C1	NTB-V-C1
200	NTB-M-D1	NTB-H-D1	NTB-V-D1
225	NTB-M-E1	NTB-H-E1	NTB-V-E1
300	NTB-M-F1	NTB-H-F1	NTB-V-F1
400	NTB-M-G1	NTB-H-G1	NTB-V-G1
450	NTB-M-H1	NTB-H-H1	NTB-V-H1
500	NTB-M-I1	NTB-H-I1	NTB-V-I1
600	NTB-M-J1	NTB-H-J1	NTB-V-J1
700	NTB-M-K1	NTB-H-K1	NTB-V-K1
750	NTB-M-L1	NTB-H-L1	NTB-V-L1
800	NTB-M-M1	NTB-H-M1	NTB-V-M1
900	NTB-M-N1	NTB-H-N1	NTB-V-N1
1000	NTB-M-O1	NTB-H-O1	NTB-V-O1

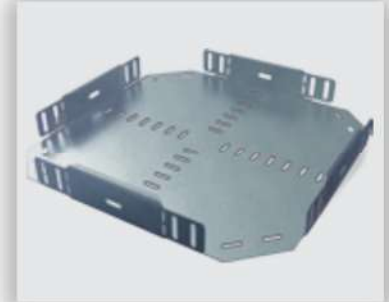
Tee Branch			
Side Height (100 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NTB-M-A2	NTB-H-A2	NTB-V-A2
100	NTB-M-B2	NTB-H-B2	NTB-V-B2
150	NTB-M-C2	NTB-H-C2	NTB-V-C2
200	NTB-M-D2	NTB-H-D2	NTB-V-D2
225	NTB-M-E2	NTB-H-E2	NTB-V-E2
300	NTB-M-F2	NTB-H-F2	NTB-V-F2
400	NTB-M-G2	NTB-H-G2	NTB-V-G2
450	NTB-M-H2	NTB-H-H2	NTB-V-H2
500	NTB-M-I2	NTB-H-I2	NTB-V-I2
600	NTB-M-J2	NTB-H-J2	NTB-V-J2
700	NTB-M-K2	NTB-H-K2	NTB-V-K2
750	NTB-M-L2	NTB-H-L2	NTB-V-L2
800	NTB-M-M2	NTB-H-M2	NTB-V-M2
900	NTB-M-N2	NTB-H-N2	NTB-V-N2
1000	NTB-M-O2	NTB-H-O2	NTB-V-O2

For Ordering Details
Refer Pg 52



Intersection - NI

Intersection - NI				
Side Height (50 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NI-L-A	NI-M-A	NI-H-A	NI-V-A
100	NI-L-B	NI-M-B	NI-H-B	NI-V-B
150	NI-L-C	NI-M-C	NI-H-C	NI-V-C
200	NI-L-D	NI-M-D	NI-H-D	NI-V-D
225	NI-L-E	NI-M-E	NI-H-E	NI-V-E
300	NI-L-F	NI-M-F	NI-H-F	NI-V-F
400	NI-L-G	NI-M-G	NI-H-G	NI-V-G
450	NI-L-H	NI-M-H	NI-H-H	NI-V-H
500	NI-L-I	NI-M-I	NI-H-I	NI-V-I
600	NI-L-J	NI-M-J	NI-H-J	NI-V-J
700	NI-L-K	NI-M-K	NI-H-K	NI-V-K
750	NI-L-L	NI-M-L	NI-H-L	NI-V-L
800	NI-L-M	NI-M-M	NI-H-M	NI-V-M
900	NI-L-N	NI-M-N	NI-H-N	NI-V-N
1000	NI-L-O	NI-M-O	NI-H-O	NI-V-O



Intersection			
Side Height (75 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NI-M-A1	NI-H-A1	NI-V-A1
100	NI-M-B1	NI-H-B1	NI-V-B1
150	NI-M-C1	NI-H-C1	NI-V-C1
200	NI-M-D1	NI-H-D1	NI-V-D1
225	NI-M-E1	NI-H-E1	NI-V-E1
300	NI-M-F1	NI-H-F1	NI-V-F1
400	NI-M-G1	NI-H-G1	NI-V-G1
450	NI-M-H1	NI-H-H1	NI-V-H1
500	NI-M-I1	NI-H-I1	NI-V-I1
600	NI-M-J1	NI-H-J1	NI-V-J1
700	NI-M-K1	NI-H-K1	NI-V-K1
750	NI-M-L1	NI-H-L1	NI-V-L1
800	NI-M-M1	NI-H-M1	NI-V-M1
900	NI-M-N1	NI-H-N1	NI-V-N1
1000	NI-M-O1	NI-H-O1	NI-V-O1

Intersection			
Side Height (100 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NI-M-A2	NI-H-A2	NI-V-A2
100	NI-M-B2	NI-H-B2	NI-V-B2
150	NI-M-C2	NI-H-C2	NI-V-C2
200	NI-M-D2	NI-H-D2	NI-V-D2
225	NI-M-E2	NI-H-E2	NI-V-E2
300	NI-M-F2	NI-H-F2	NI-V-F2
400	NI-M-G2	NI-H-G2	NI-V-G2
450	NI-M-H2	NI-H-H2	NI-V-H2
500	NI-M-I2	NI-H-I2	NI-V-I2
600	NI-M-J2	NI-H-J2	NI-V-J2
700	NI-M-K2	NI-H-K2	NI-V-K2
750	NI-M-L2	NI-H-L2	NI-V-L2
800	NI-M-M2	NI-H-M2	NI-V-M2
900	NI-M-N2	NI-H-N2	NI-V-N2
1000	NI-M-O2	NI-H-O2	NI-V-O2

For Ordering Details
Refer Pg 52

OUTSIDE RISER BEND 45°

OUTSIDE RISER BEND 45°				
Side Height (50 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NOR-45-L-A	NOR-45-M-A	NOR-45-H-A	NOR-45-V-A
100	NOR-45-L-B	NOR-45-M-B	NOR-45-H-B	NOR-45-V-B
150	NOR-45-L-C	NOR-45-M-C	NOR-45-H-C	NOR-45-V-C
200	NOR-45-L-D	NOR-45-M-D	NOR-45-H-D	NOR-45-V-D
225	NOR-45-L-E	NOR-45-M-E	NOR-45-H-E	NOR-45-V-E
300	NOR-45-L-F	NOR-45-M-F	NOR-45-H-F	NOR-45-V-F
400	NOR-45-L-G	NOR-45-M-G	NOR-45-H-G	NOR-45-V-G
450	NOR-45-L-H	NOR-45-M-H	NOR-45-H-H	NOR-45-V-H
500	NOR-45-L-I	NOR-45-M-I	NOR-45-H-I	NOR-45-V-I
600	NOR-45-L-J	NOR-45-M-J	NOR-45-H-J	NOR-45-V-J
700	NOR-45-L-K	NOR-45-M-K	NOR-45-H-K	NOR-45-V-K
750	NOR-45-L-L	NOR-45-M-L	NOR-45-H-L	NOR-45-V-L
800	NOR-45-L-M	NOR-45-M-M	NOR-45-H-M	NOR-45-V-M
900	NOR-45-L-N	NOR-45-M-N	NOR-45-H-N	NOR-45-V-N
1000	NOR-45-L-O	NOR-45-M-O	NOR-45-H-O	NOR-45-V-O



OUTSIDE RISER BEND 45°			
Side Height (75 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NOR-45-M-A1	NOR-45-H-A1	NOR-45-V-A1
100	NOR-45-M-B1	NOR-45-H-B1	NOR-45-V-B1
150	NOR-45-M-C1	NOR-45-H-C1	NOR-45-V-C1
200	NOR-45-M-D1	NOR-45-H-D1	NOR-45-V-D1
225	NOR-45-M-E1	NOR-45-H-E1	NOR-45-V-E1
300	NOR-45-M-F1	NOR-45-H-F1	NOR-45-V-F1
400	NOR-45-M-G1	NOR-45-H-G1	NOR-45-V-G1
450	NOR-45-M-H1	NOR-45-H-H1	NOR-45-V-H1
500	NOR-45-M-I1	NOR-45-H-I1	NOR-45-V-I1
600	NOR-45-M-J1	NOR-45-H-J1	NOR-45-V-J1
700	NOR-45-M-K1	NOR-45-H-K1	NOR-45-V-K1
750	NOR-45-M-L1	NOR-45-H-L1	NOR-45-V-L1
800	NOR-45-M-M1	NOR-45-H-M1	NOR-45-V-M1
900	NOR-45-M-N1	NOR-45-H-N1	NOR-45-V-N1
1000	NOR-45-M-O1	NOR-45-H-O1	NOR-45-V-O1

OUTSIDE RISER BEND 45° - NORB 45°			
Side Height (100 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NOR-45-M-A2	NOR-45-H-A2	NOR-45-V-A2
100	NOR-45-M-B2	NOR-45-H-B2	NOR-45-V-B2
150	NOR-45-M-C2	NOR-45-H-C2	NOR-45-V-C2
200	NOR-45-M-D2	NOR-45-H-D2	NOR-45-V-D2
225	NOR-45-M-E2	NOR-45-H-E2	NOR-45-V-E2
300	NOR-45-M-F2	NOR-45-H-F2	NOR-45-V-F2
400	NOR-45-M-G2	NOR-45-H-G2	NOR-45-V-G2
450	NOR-45-M-H2	NOR-45-H-H2	NOR-45-V-H2
500	NOR-45-M-I2	NOR-45-H-I2	NOR-45-V-I2
600	NOR-45-M-J2	NOR-45-H-J2	NOR-45-V-J2
700	NOR-45-M-K2	NOR-45-H-K2	NOR-45-V-K2
750	NOR-45-M-L2	NOR-45-H-L2	NOR-45-V-L2
800	NOR-45-M-M2	NOR-45-H-M2	NOR-45-V-M2
900	NOR-45-M-N2	NOR-45-H-N2	NOR-45-V-N2
1000	NOR-45-M-O2	NOR-45-H-O2	NOR-45-V-O2

For Ordering Details
Refer Pg 52

INSIDE RISER BEND 45°

Inside Riser Bend 45°				
Side Height (50 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NIR-45-L-A	NIR-45-M-A	NIR-45-H-A	NIR-45-V-A
100	NIR-45-L-B	NIR-45-M-B	NIR-45-H-B	NIR-45-V-B
150	NIR-45-L-C	NIR-45-M-C	NIR-45-H-C	NIR-45-V-C
200	NIR-45-L-D	NIR-45-M-D	NIR-45-H-D	NIR-45-V-D
225	NIR-45-L-E	NIR-45-M-E	NIR-45-H-E	NIR-45-V-E
300	NIR-45-L-F	NIR-45-M-F	NIR-45-H-F	NIR-45-V-F
400	NIR-45-L-G	NIR-45-M-G	NIR-45-H-G	NIR-45-V-G
450	NIR-45-L-H	NIR-45-M-H	NIR-45-H-H	NIR-45-V-H
500	NIR-45-L-I	NIR-45-M-I	NIR-45-H-I	NIR-45-V-I
600	NIR-45-L-J	NIR-45-M-J	NIR-45-H-J	NIR-45-V-J
700	NIR-45-L-K	NIR-45-M-K	NIR-45-H-K	NIR-45-V-K
750	NIR-45-L-L	NIR-45-M-L	NIR-45-H-L	NIR-45-V-L
800	NIR-45-L-M	NIR-45-M-M	NIR-45-H-M	NIR-45-V-M
900	NIR-45-L-N	NIR-45-M-N	NIR-45-H-N	NIR-45-V-N
1000	NIR-45-L-O	NIR-45-M-O	NIR-45-H-O	NIR-45-V-O



Inside Riser Bend 45°			
Side Height (75 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NIR-45-M-A1	NIR-45-H-A1	NIR-45-V-A1
100	NIR-45-M-B1	NIR-45-H-B1	NIR-45-V-B1
150	NIR-45-M-C1	NIR-45-H-C1	NIR-45-V-C1
200	NIR-45-M-D1	NIR-45-H-D1	NIR-45-V-D1
225	NIR-45-M-E1	NIR-45-H-E1	NIR-45-V-E1
300	NIR-45-M-F1	NIR-45-H-F1	NIR-45-V-F1
400	NIR-45-M-G1	NIR-45-H-G1	NIR-45-V-G1
450	NIR-45-M-H1	NIR-45-H-H1	NIR-45-V-H1
500	NIR-45-M-I1	NIR-45-H-I1	NIR-45-V-I1
600	NIR-45-M-J1	NIR-45-H-J1	NIR-45-V-J1
700	NIR-45-M-K1	NIR-45-H-K1	NIR-45-V-K1
750	NIR-45-M-L1	NIR-45-H-L1	NIR-45-V-L1
800	NIR-45-M-M1	NIR-45-H-M1	NIR-45-V-M1
900	NIR-45-M-N1	NIR-45-H-N1	NIR-45-V-N1
1000	NIR-45-M-O1	NIR-45-H-O1	NIR-45-V-O1

Inside Riser Bend 45°			
Side Height (100 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NIR-45-M-A2	NIR-45-H-A2	NIR-45-V-A2
100	NIR-45-M-B2	NIR-45-H-B2	NIR-45-V-B2
150	NIR-45-M-C2	NIR-45-H-C2	NIR-45-V-C2
200	NIR-45-M-D2	NIR-45-H-D2	NIR-45-V-D2
225	NIR-45-M-E2	NIR-45-H-E2	NIR-45-V-E2
300	NIR-45-M-F2	NIR-45-H-F2	NIR-45-V-F2
400	NIR-45-M-G2	NIR-45-H-G2	NIR-45-V-G2
450	NIR-45-M-H2	NIR-45-H-H2	NIR-45-V-H2
500	NIR-45-M-I2	NIR-45-H-I2	NIR-45-V-I2
600	NIR-45-M-J2	NIR-45-H-J2	NIR-45-V-J2
700	NIR-45-M-K2	NIR-45-H-K2	NIR-45-V-K2
750	NIR-45-M-L2	NIR-45-H-L2	NIR-45-V-L2
800	NIR-45-M-M2	NIR-45-H-M2	NIR-45-V-M2
900	NIR-45-M-N2	NIR-45-H-N2	NIR-45-V-N2
1000	NIR-45-M-O2	NIR-45-H-O2	NIR-45-V-O2

For Ordering Details
Refer Pg 52



OUTSIDE RISER BEND 90°

OUTSIDE RISER BEND 90°				
Side Height (50 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NOR-90-L-A	NOR-90-M-A	NOR-90-H-A	NOR-90-V-A
100	NOR-90-L-B	NOR-90-M-B	NOR-90-H-B	NOR-90-V-B
150	NOR-90-L-C	NOR-90-M-C	NOR-90-H-C	NOR-90-V-C
200	NOR-90-L-D	NOR-90-M-D	NOR-90-H-D	NOR-90-V-D
225	NOR-90-L-E	NOR-90-M-E	NOR-90-H-E	NOR-90-V-E
300	NOR-90-L-F	NOR-90-M-F	NOR-90-H-F	NOR-90-V-F
400	NOR-90-L-G	NOR-90-M-G	NOR-90-H-G	NOR-90-V-G
450	NOR-90-L-H	NOR-90-M-H	NOR-90-H-H	NOR-90-V-H
500	NOR-90-L-I	NOR-90-M-I	NOR-90-H-I	NOR-90-V-I
600	NOR-90-L-J	NOR-90-M-J	NOR-90-H-J	NOR-90-V-J
700	NOR-90-L-K	NOR-90-M-K	NOR-90-H-K	NOR-90-V-K
750	NOR-90-L-L	NOR-90-M-L	NOR-90-H-L	NOR-90-V-L
800	NOR-90-L-M	NOR-90-M-M	NOR-90-H-M	NOR-90-V-M
900	NOR-90-L-N	NOR-90-M-N	NOR-90-H-N	NOR-90-V-N
1000	NOR-90-L-O	NOR-90-M-O	NOR-90-H-O	NOR-90-V-O



OUTSIDE RISER BEND 90°			
Side Height (75 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NOR-90-M-A1	NOR-90-H-A1	NOR-90-V-A1
100	NOR-90-M-B1	NOR-90-H-B1	NOR-90-V-B1
150	NOR-90-M-C1	NOR-90-H-C1	NOR-90-V-C1
200	NOR-90-M-D1	NOR-90-H-D1	NOR-90-V-D1
225	NOR-90-M-E1	NOR-90-H-E1	NOR-90-V-E1
300	NOR-90-M-F1	NOR-90-H-F1	NOR-90-V-F1
400	NOR-90-M-G1	NOR-90-H-G1	NOR-90-V-G1
450	NOR-90-M-H1	NOR-90-H-H1	NOR-90-V-H1
500	NOR-90-M-I1	NOR-90-H-I1	NOR-90-V-I1
600	NOR-90-M-J1	NOR-90-H-J1	NOR-90-V-J1
700	NOR-90-M-K1	NOR-90-H-K1	NOR-90-V-K1
750	NOR-90-M-L1	NOR-90-H-L1	NOR-90-V-L1
800	NOR-90-M-M1	NOR-90-H-M1	NOR-90-V-M1
900	NOR-90-M-N1	NOR-90-H-N1	NOR-90-V-N1
1000	NOR-90-M-O1	NOR-90-H-O1	NOR-90-V-O1

OUTSIDE RISER BEND 90°			
Side Height (100 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NOR-90-M-A2	NOR-90-H-A2	NOR-90-V-A2
100	NOR-90-M-B2	NOR-90-H-B2	NOR-90-V-B2
150	NOR-90-M-C2	NOR-90-H-C2	NOR-90-V-C2
200	NOR-90-M-D2	NOR-90-H-D2	NOR-90-V-D2
225	NOR-90-M-E2	NOR-90-H-E2	NOR-90-V-E2
300	NOR-90-M-F2	NOR-90-H-F2	NOR-90-V-F2
400	NOR-90-M-G2	NOR-90-H-G2	NOR-90-V-G2
450	NOR-90-M-H2	NOR-90-H-H2	NOR-90-V-H2
500	NOR-90-M-I2	NOR-90-H-I2	NOR-90-V-I2
600	NOR-90-M-J2	NOR-90-H-J2	NOR-90-V-J2
700	NOR-90-M-K2	NOR-90-H-K2	NOR-90-V-K2
750	NOR-90-M-L2	NOR-90-H-L2	NOR-90-V-L2
800	NOR-90-M-M2	NOR-90-H-M2	NOR-90-V-M2
900	NOR-90-M-N2	NOR-90-H-N2	NOR-90-V-N2
1000	NOR-90-M-O2	NOR-90-H-O2	NOR-90-V-O2

For Ordering Details
Refer Pg 52



INSIDE RISER BEND 90°

Inside Riser Bend 90°				
Side Height (50 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NIR-90-L-A	NIR-90-M-A	NIR-90-H-A	NIR-90-V-A
100	NIR-90-L-B	NIR-90-M-B	NIR-90-H-B	NIR-90-V-B
150	NIR-90-L-C	NIR-90-M-C	NIR-90-H-C	NIR-90-V-C
200	NIR-90-L-D	NIR-90-M-D	NIR-90-H-D	NIR-90-V-D
225	NIR-90-L-E	NIR-90-M-E	NIR-90-H-E	NIR-90-V-E
300	NIR-90-L-F	NIR-90-M-F	NIR-90-H-F	NIR-90-V-F
400	NIR-90-L-G	NIR-90-M-G	NIR-90-H-G	NIR-90-V-G
450	NIR-90-L-H	NIR-90-M-H	NIR-90-H-H	NIR-90-V-H
500	NIR-90-L-I	NIR-90-M-I	NIR-90-H-I	NIR-90-V-I
600	NIR-90-L-J	NIR-90-M-J	NIR-90-H-J	NIR-90-V-J
700	NIR-90-L-K	NIR-90-M-K	NIR-90-H-K	NIR-90-V-K
750	NIR-90-L-L	NIR-90-M-L	NIR-90-H-L	NIR-90-V-L
800	NIR-90-L-M	NIR-90-M-M	NIR-90-H-M	NIR-90-V-M
900	NIR-90-L-N	NIR-90-M-N	NIR-90-H-N	NIR-90-V-N
1000	NIR-90-L-O	NIR-90-M-O	NIR-90-H-O	NIR-90-V-O



Inside Riser Bend 90°			
Side Height (75 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NIR-90-M-A1	NIR-90-H-A1	NIR-90-V-A1
100	NIR-90-M-B1	NIR-90-H-B1	NIR-90-V-B1
150	NIR-90-M-C1	NIR-90-H-C1	NIR-90-V-C1
200	NIR-90-M-D1	NIR-90-H-D1	NIR-90-V-D1
225	NIR-90-M-E1	NIR-90-H-E1	NIR-90-V-E1
300	NIR-90-M-F1	NIR-90-H-F1	NIR-90-V-F1
400	NIR-90-M-G1	NIR-90-H-G1	NIR-90-V-G1
450	NIR-90-M-H1	NIR-90-H-H1	NIR-90-V-H1
500	NIR-90-M-I1	NIR-90-H-I1	NIR-90-V-I1
600	NIR-90-M-J1	NIR-90-H-J1	NIR-90-V-J1
700	NIR-90-M-K1	NIR-90-H-K1	NIR-90-V-K1
750	NIR-90-M-L1	NIR-90-H-L1	NIR-90-V-L1
800	NIR-90-M-M1	NIR-90-H-M1	NIR-90-V-M1
900	NIR-90-M-N1	NIR-90-H-N1	NIR-90-V-N1
1000	NIR-90-M-O1	NIR-90-H-O1	NIR-90-V-O1

Inside Riser Bend 90°			
Side Height (75 mm)			
Width	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
50	NIR-90-M-A1	NIR-90-H-A1	NIR-90-V-A1
100	NIR-90-M-B1	NIR-90-H-B1	NIR-90-V-B1
150	NIR-90-M-C1	NIR-90-H-C1	NIR-90-V-C1
200	NIR-90-M-D1	NIR-90-H-D1	NIR-90-V-D1
225	NIR-90-M-E1	NIR-90-H-E1	NIR-90-V-E1
300	NIR-90-M-F1	NIR-90-H-F1	NIR-90-V-F1
400	NIR-90-M-G1	NIR-90-H-G1	NIR-90-V-G1
450	NIR-90-M-H1	NIR-90-H-H1	NIR-90-V-H1
500	NIR-90-M-I1	NIR-90-H-I1	NIR-90-V-I1
600	NIR-90-M-J1	NIR-90-H-J1	NIR-90-V-J1
700	NIR-90-M-K1	NIR-90-H-K1	NIR-90-V-K1
750	NIR-90-M-L1	NIR-90-H-L1	NIR-90-V-L1
800	NIR-90-M-M1	NIR-90-H-M1	NIR-90-V-M1
900	NIR-90-M-N1	NIR-90-H-N1	NIR-90-V-N1
1000	NIR-90-M-O1	NIR-90-H-O1	NIR-90-V-O1

For Ordering Details
Refer Pg 52



REDUCER

Reducer - NR				
Side Height (25 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
100 - 50	NR-25-L1	NR-25-M1	NR-25-H1	NR-25-V1
150 - 50	NR-25-L2	NR-25-M2	NR-25-H2	NR-25-V2
150 - 100	NR-25-L3	NR-25-M3	NR-25-H3	NR-25-V3
200 - 50	NR-25-L4	NR-25-M4	NR-25-H4	NR-25-V4
200 - 100	NR-25-L5	NR-25-M5	NR-25-H5	NR-25-V5
200 - 150	NR-25-L6	NR-25-M6	NR-25-H6	NR-25-V6
225 - 50	NR-25-L7	NR-25-M7	NR-25-H7	NR-25-V7
225 - 100	NR-25-L8	NR-25-M8	NR-25-H8	NR-25-V8
225 - 150	NR-25-L9	NR-25-M9	NR-25-H9	NR-25-V9
225 - 200	NR-25-L10	NR-25-M10	NR-25-H10	NR-25-V10
300 - 50	NR-25-L11	NR-25-M11	NR-25-H11	NR-25-V11
300 - 100	NR-25-L12	NR-25-M12	NR-25-H12	NR-25-V12
300 - 150	NR-25-L13	NR-25-M13	NR-25-H13	NR-25-V13
300 - 200	NR-25-L14	NR-25-M14	NR-25-H14	NR-25-V14
300 - 225	NR-25-L15	NR-25-M15	NR-25-H15	NR-25-V15
400 - 50	NR-25-L16	NR-25-M16	NR-25-H16	NR-25-V16
400 - 100	NR-25-L17	NR-25-M17	NR-25-H17	NR-25-V17
400 - 150	NR-25-L18	NR-25-M18	NR-25-H18	NR-25-V18
400 - 200	NR-25-L19	NR-25-M19	NR-25-H19	NR-25-V19
400 - 225	NR-25-L20	NR-25-M20	NR-25-H20	NR-25-V20
400 - 300	NR-25-L21	NR-25-M21	NR-25-H21	NR-25-V21
450 - 50	NR-25-L22	NR-25-M22	NR-25-H22	NR-25-V22
450 - 250	NR-25-L23	NR-25-M23	NR-25-H23	NR-25-V23
450 - 100	NR-25-L24	NR-25-M24	NR-25-H24	NR-25-V24
450 - 150	NR-25-L25	NR-25-M25	NR-25-H25	NR-25-V25
450 - 200	NR-25-L26	NR-25-M26	NR-25-H26	NR-25-V26
450 - 225	NR-25-L27	NR-25-M27	NR-25-H27	NR-25-V27
450 - 300	NR-25-L28	NR-25-M28	NR-25-H28	NR-25-V28
450 - 400	NR-25-L29	NR-25-M29	NR-25-H29	NR-25-V29
500 - 50	NR-25-L30	NR-25-M30	NR-25-H30	NR-25-V30
500 - 100	NR-25-L31	NR-25-M31	NR-25-H31	NR-25-V31
500 - 150	NR-25-L32	NR-25-M32	NR-25-H32	NR-25-V32
500 - 200	NR-25-L33	NR-25-M33	NR-25-H33	NR-25-V33
500 - 225	NR-25-L34	NR-25-M34	NR-25-H34	NR-25-V34
500 - 300	NR-25-L35	NR-25-M35	NR-25-H35	NR-25-V35
500 - 400	NR-25-L36	NR-25-M36	NR-25-H36	NR-25-V36
500 - 450	NR-25-L37	NR-25-M37	NR-25-H37	NR-25-V37
600 - 50	NR-25-L38	NR-25-M38	NR-25-H38	NR-25-V38
600 - 100	NR-25-L39	NR-25-M39	NR-25-H39	NR-25-V39
600 - 150	NR-25-L40	NR-25-M40	NR-25-H40	NR-25-V40
600 - 200	NR-25-L41	NR-25-M41	NR-25-H41	NR-25-V41
600 - 225	NR-25-L42	NR-25-M42	NR-25-H42	NR-25-V42
600 - 300	NR-25-L43	NR-25-M43	NR-25-H43	NR-25-V43
600 - 400	NR-25-L44	NR-25-M44	NR-25-H44	NR-25-V44
600 - 450	NR-25-L45	NR-25-M45	NR-25-H45	NR-25-V45
600 - 500	NR-25-L46	NR-25-M46	NR-25-H46	NR-25-V46
700 - 50	NR-25-L47	NR-25-M47	NR-25-H47	NR-25-V47
700 - 100	NR-25-L48	NR-25-M48	NR-25-H48	NR-25-V48
700 - 150	NR-25-L49	NR-25-M49	NR-25-H49	NR-25-V49
700 - 200	NR-25-L50	NR-25-M50	NR-25-H50	NR-25-V50
700 - 225	NR-25-L51	NR-25-M51	NR-25-H51	NR-25-V51
700 - 300	NR-25-L52	NR-25-M52	NR-25-H52	NR-25-V52
700 - 400	NR-25-L53	NR-25-M53	NR-25-H53	NR-25-V53
700 - 450	NR-25-L54	NR-25-M54	NR-25-H54	NR-25-V54
700 - 500	NR-25-L55	NR-25-M55	NR-25-H55	NR-25-V55
700 - 600	NR-25-L56	NR-25-M56	NR-25-H56	NR-25-V56
750 - 250	NR-25-L57	NR-25-M57	NR-25-H57	NR-25-V57
900 - 300	NR-25-L58	NR-25-M58	NR-25-H58	NR-25-V58



For Ordering Details
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REDUCER

Reducer				
Side Height (50 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
100 - 50	NR-50-L1	NR-50-M1	NR-50-H1	NR-50-V1
150 - 50	NR-50-L2	NR-50-M2	NR-50-H2	NR-50-V2
150 - 100	NR-50-L3	NR-50-M3	NR-50-H3	NR-50-V3
200 - 50	NR-50-L4	NR-50-M4	NR-50-H4	NR-50-V4
200 - 100	NR-50-L5	NR-50-M5	NR-50-H5	NR-50-V5
200 - 150	NR-50-L6	NR-50-M6	NR-50-H6	NR-50-V6
225 - 50	NR-50-L7	NR-50-M7	NR-50-H7	NR-50-V7
225 - 100	NR-50-L8	NR-50-M8	NR-50-H8	NR-50-V8
225 - 150	NR-50-L9	NR-50-M9	NR-50-H9	NR-50-V9
225 - 200	NR-50-L10	NR-50-M10	NR-50-H10	NR-50-V10
300 - 50	NR-50-L11	NR-50-M11	NR-50-H11	NR-50-V11
300 - 100	NR-50-L12	NR-50-M12	NR-50-H12	NR-50-V12
300 - 150	NR-50-L13	NR-50-M13	NR-50-H13	NR-50-V13
300 - 200	NR-50-L14	NR-50-M14	NR-50-H14	NR-50-V14
300 - 225	NR-50-L15	NR-50-M15	NR-50-H15	NR-50-V15
400 - 50	NR-50-L16	NR-50-M16	NR-50-H16	NR-50-V16
400 - 100	NR-50-L17	NR-50-M17	NR-50-H17	NR-50-V17
400 - 150	NR-50-L18	NR-50-M18	NR-50-H18	NR-50-V18
400 - 200	NR-50-L19	NR-50-M19	NR-50-H19	NR-50-V19
400 - 225	NR-50-L20	NR-50-M20	NR-50-H20	NR-50-V20
400 - 300	NR-50-L21	NR-50-M21	NR-50-H21	NR-50-V21
450 - 50	NR-50-L22	NR-50-M22	NR-50-H22	NR-50-V22
450 - 250	NR-50-L23	NR-50-M23	NR-50-H23	NR-50-V23
450 - 100	NR-50-L24	NR-50-M24	NR-50-H24	NR-50-V24
450 - 150	NR-50-L25	NR-50-M25	NR-50-H25	NR-50-V25
450 - 200	NR-50-L26	NR-50-M26	NR-50-H26	NR-50-V26
450 - 225	NR-50-L27	NR-50-M27	NR-50-H27	NR-50-V27
450 - 300	NR-50-L28	NR-50-M28	NR-50-H28	NR-50-V28
450 - 400	NR-50-L29	NR-50-M29	NR-50-H29	NR-50-V29
500 - 50	NR-50-L30	NR-50-M30	NR-50-H30	NR-50-V30
500 - 100	NR-50-L31	NR-50-M31	NR-50-H31	NR-50-V31
500 - 150	NR-50-L32	NR-50-M32	NR-50-H32	NR-50-V32
500 - 200	NR-50-L33	NR-50-M33	NR-50-H33	NR-50-V33
500 - 225	NR-50-L34	NR-50-M34	NR-50-H34	NR-50-V34
500 - 300	NR-50-L35	NR-50-M35	NR-50-H35	NR-50-V35
500 - 400	NR-50-L36	NR-50-M36	NR-50-H36	NR-50-V36
500 - 450	NR-50-L37	NR-50-M37	NR-50-H37	NR-50-V37
600 - 50	NR-50-L38	NR-50-M38	NR-50-H38	NR-50-V38
600 - 100	NR-50-L39	NR-50-M39	NR-50-H39	NR-50-V39
600 - 150	NR-50-L40	NR-50-M40	NR-50-H40	NR-50-V40
600 - 200	NR-50-L41	NR-50-M41	NR-50-H41	NR-50-V41
600 - 225	NR-50-L42	NR-50-M42	NR-50-H42	NR-50-V42
600 - 300	NR-50-L43	NR-50-M43	NR-50-H43	NR-50-V43
600 - 400	NR-50-L44	NR-50-M44	NR-50-H44	NR-50-V44
600 - 450	NR-50-L45	NR-50-M45	NR-50-H45	NR-50-V45
600 - 500	NR-50-L46	NR-50-M46	NR-50-H46	NR-50-V46
700 - 50	NR-50-L47	NR-50-M47	NR-50-H47	NR-50-V47
700 - 100	NR-50-L48	NR-50-M48	NR-50-H48	NR-50-V48
700 - 150	NR-50-L49	NR-50-M49	NR-50-H49	NR-50-V49
700 - 200	NR-50-L50	NR-50-M50	NR-50-H50	NR-50-V50
700 - 225	NR-50-L51	NR-50-M51	NR-50-H51	NR-50-V51
700 - 300	NR-50-L52	NR-50-M52	NR-50-H52	NR-50-V52
700 - 400	NR-50-L53	NR-50-M53	NR-50-H53	NR-50-V53
700 - 450	NR-50-L54	NR-50-M54	NR-50-H54	NR-50-V54
700 - 500	NR-50-L55	NR-50-M55	NR-50-H55	NR-50-V55
700 - 600	NR-50-L56	NR-50-M56	NR-50-H56	NR-50-V56
750 - 250	NR-50-L57	NR-50-M57	NR-50-H57	NR-50-V57
900 - 300	NR-50-L58	NR-50-M58	NR-50-H58	NR-50-V58



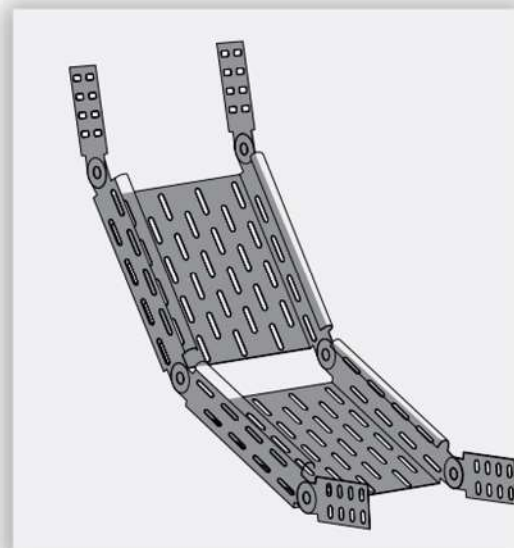
For Ordering Details
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ADJUSTABLE RISER

Adjustable Riser				
Side Height (50 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
100	NAR-50-L1	NAR-50-M1	NAR-50-H1	NAR-50-V1
150	NAR-50-L2	NAR-50-M2	NAR-50-H2	NAR-50-V2
200	NAR-50-L3	NAR-50-M3	NAR-50-H3	NAR-50-V3
225	NAR-50-L4	NAR-50-M4	NAR-50-H4	NAR-50-V4
300	NAR-50-L5	NAR-50-M5	NAR-50-H5	NAR-50-V5
450	NAR-50-L6	NAR-50-M6	NAR-50-H6	NAR-50-V6
600	NAR-50-L7	NAR-50-M7	NAR-50-H7	NAR-50-V7
750	NAR-50-L8	NAR-50-M8	NAR-50-H8	NAR-50-V8
900	NAR-50-L9	NAR-50-M9	NAR-50-H9	NAR-50-V9

Adjustable Riser				
Side Height (100 mm)				
Width	Light Duty (LCT) 1.0mm Thickness	Medium Duty (MCT) 1.2mm Thickness	Heavy Duty (HCT) 1.5mm Thickness	Very Heavy Duty (VCT) 2.0mm Thickness
100	NAR-100-L1	NAR-100-M1	NAR-100-H1	NAR-100-V1
150	NAR-100-L2	NAR-100-M2	NAR-100-H2	NAR-100-V2
200	NAR-100-L3	NAR-100-M3	NAR-100-H3	NAR-100-V3
225	NAR-100-L4	NAR-100-M4	NAR-100-H4	NAR-100-V4
300	NAR-100-L5	NAR-100-M5	NAR-100-H5	NAR-100-V5
450	NAR-100-L6	NAR-100-M6	NAR-100-H6	NAR-100-V6
600	NAR-100-L7	NAR-100-M7	NAR-100-H7	NAR-100-V7
750	NAR-100-L8	NAR-100-M8	NAR-100-H8	NAR-100-V8
900	NAR-100-L9	NAR-100-M9	NAR-100-H9	NAR-100-V9



For Ordering Details
Refer Pg 52



CABLE TRAY ACCESSORIES



مصنع نبراس المعادن
NIPRAS STEEL FACTORY

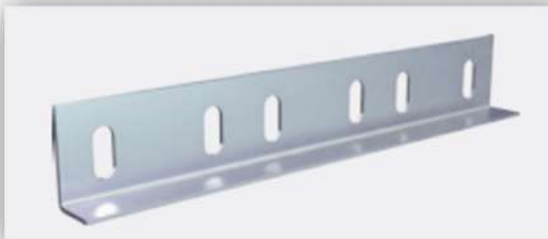


STRAIGHT CONNECTOR



Straight Connector / 1000		
Side Height 1000		
Item code	Height (h)	Thickness (t)
NSC-1	50	2
NSC-2	75	2
NSC-3	100	2

ANGLE CONNECTOR



Straight Connector / 1000		
Side Height 1000		
Item code	Height (h)	Thickness (t)
NSC-1	50	2
NSC-2	75	2
NSC-3	100	2



Angle Connector / 1030		
Side Height 1030		
Item code	Height (h)	Thickness (t)
NAC-4	50	2
NAC-5	75	2
NAC-5	100	2

WRAP OVER COUPLER



Wrap Over Coupler / 1030 - 1050			
Side Height 1030 - 1050			
	Item code	Height (h)	Thickness (t)
NWO-1	NWO-4	50	2
NWO-2	NWO-5	75	2
NWO-3	NWO-6	100	2

EXPANSION CONNECTOR

EXPANSION JOINT PLATE - FISH PLATE



Expansion Connector / 1020		
Side Height 1020		
Item code	Height (h)	Thickness (t)
NEC-1	50	2
NEC-2	75	2
NEC-3	100	2



Expansion Joint Plate - Fish Plate / 1085		
Side Height 1085		
Item code	Height (h)	Thickness (t)
NFP-1	50	2
NFP-2	75	2
NFP-3	100	2

Horizontal Adjustable Connector



Horizontal Adjustable Connector / 1060		
Side Height 1060		
Item code	Height (h)	Thickness (t)
NHC-1	50	2
NHC-2	75	2
NHC-3	100	2

End Plate



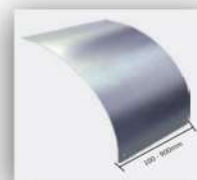
End Plate / 1090		
Side Height 1090		
Item code	Height (h)	Thickness (t)
NEP-1	50	2
NEP-2	75	2
NEP-3	100	2

Vertical Adjustable Connector



Vertical Adjustable Connector / 1050		
Side Height 1050		
Item code	Height (h)	Thickness (t)
NVC-1	50	2
NVC-2	75	2
NVC-3	100	2

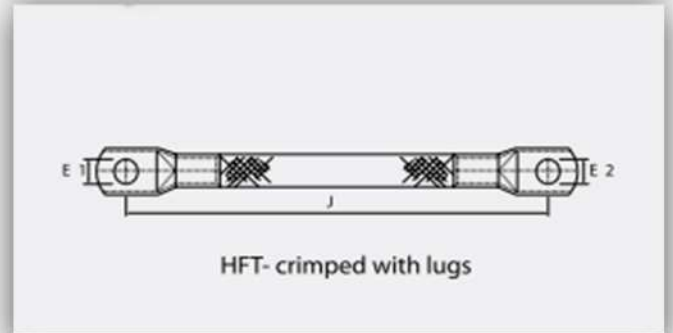
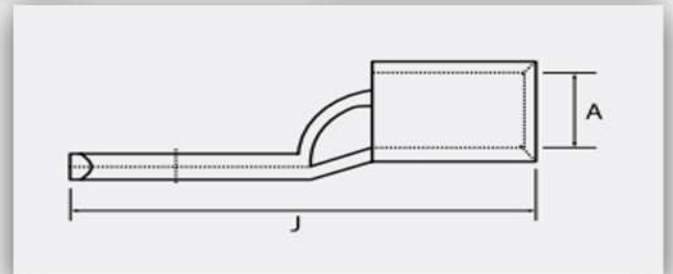
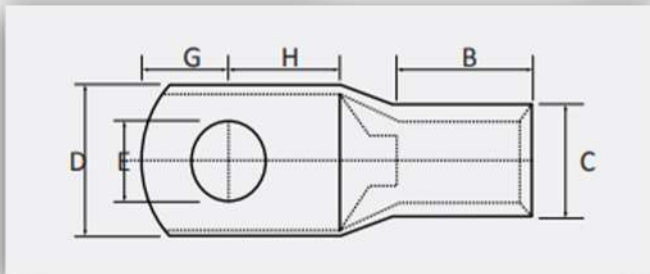
Drop-Out Plate



Drop Out Plate 2000	
100-900 mm	

Crimping Type Copper

Tinned Copper Flexible Braids



Cable mm2	Stud Hole	Dimensions (mm)						
		A	C	D	G	H	B	J
1.5	6.5	1.8	3.7	10	4	6	6	18
2.5	6.5	2.4	4	10	5	6	8	21
	8.4	2.4	4.2	12	6	9	8	26
4	6.5	3.1	4.8	10	5	6	8	21
	8.4	3.1	5.0	12	6	9	8	26
6	6.5	3.8	5.5	10	5	6	10	24
	8.4	3.8	5.5	12	6	9	10	28
10	6.5	4.5	6.2	11	6	7	10	26
	8.4	4.5	6.2	12	6	9	10	28
16	6.5	5.4	7.1	12	7	7	12	30
	8.4	5.4	7.1	12	7	7	12	30
20	8.4	6	7.7	12	7	7	12	32
25	6.5	6.8	8.8	13	7	7	12	30
	8.4	6.8	8.8	13	7	7	12	30

Size mm2	Dimensions (mm)			Current rating AMP
	J	E1	E2	
4	50	6	6	50
	100	6	6	
	150	6	6	
10	50	6	6	90
	100	6	6	
	150	6	6	
16	100	8.5	8.5	125
	150	8.5	8.5	
	200	8.5	8.5	
	250	8.5	8.5	
	300	8.5	8.5	
25	100	10	10	160
	150	10	10	
	200	10	10	
	250	10	10	
300	10	10	160	



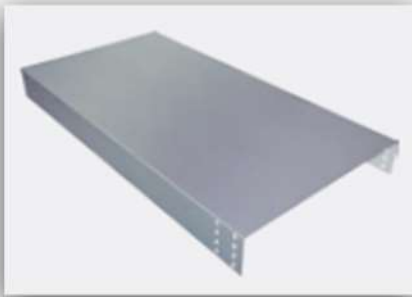
CABLE TRAY COVER

Functions

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 ultra-violet 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

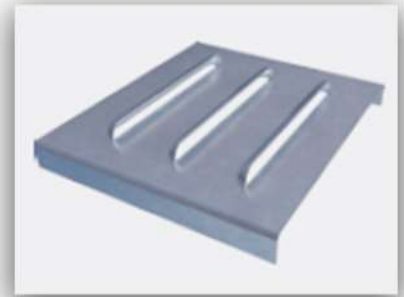
Solid Cover



Covers Side Height Types :

- Solid without flange -(SOF)
- Solid with flange -(SWF)
- Ventilated without flange -(VOF)
- Ventilated with flange -(VWF)

Ventilated Cover



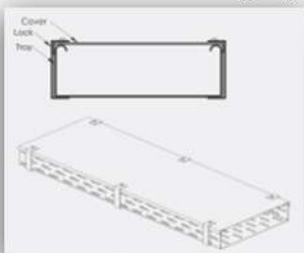
- Cable Ladder covers are supplied with or without a 15 mm downturned flange.
- Straight section covers are furnished 3000 mm long. All fitting covers are furnished in solid design only

Cable tray cover with locking clamp



Covers Side Height Types:

- Solid without flange-(VOF)
- Solid with flange-(VWF)



Locking Clamp Thickness: 2mm



Locking Clamp		
Side Height 3300		
Item code	Height (h)	Thickness (t)
NLC-1	50	2
NLC-2	75	2
NLC-3	100	2

Spring Down Clamp Thickness: 2mm



Spring Down Clamp		
Side Height 3301		
Item code	Height (h)	Thickness (t)
NSC-1	50	2
NSC-2	75	2
NSC-3	100	2

FRAMING SYSTEMS – ASTM F436

Washers (SRW) | DIN 125 | ASTM F436

Washers (NRW) DIN 125/ ASTM F436				
Zinc Plated / Stainless Steel				
Nominal Diameter - Zinc Plated	Nominal Diameter - Stainless Steel	D1	D	S
M6	M6	6.4	12	1.6
M8	M8	8.4	16	1.6
M10	M10	10.5	21	2
M12	M12	13	24	2.5
M16	M16	17	30	3
M18	M18	19	34	3.2
M20	M20	20.5	39	3.6

Item Code - NRW-M6-125



Round Washers DIN 440, DIN 9021

Washers (SRW) | DIN 440 | DIN 9021

Round Washers (NRW) DIN 440/9021					
Zinc Plated/ Stainless Steel					
DIN	Nominal Diameter - Zinc Plated	Nominal Diameter - Stainless Steel	D1	D	S
440	M6		6.4	22	2
9021	M8	M8	8.4	24	2
9021	M10	M10	10.5	30	2.5
440	M12		13.5	45	4
9021	M12	M12	13	37	3
9021	M16	M16	17	50	3

Item Code - NRW-M6-9021

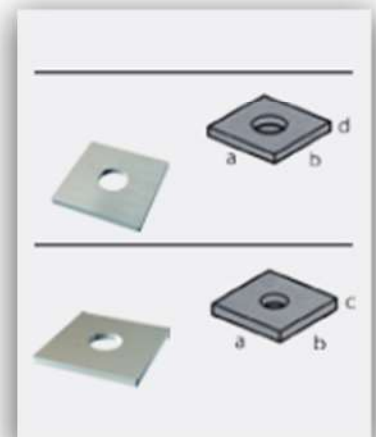


Square Washers SSW

Square Washers (SSW)

Square Washers - NSQW		
HD galvanized Bolt	Stainless Steel Bolt	axbxd - (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)

Item Code - NSQW-M12-41/41



Threaded Rod (STR) - DIN 975 - ASTM A36

Fully Threaded Rods Grade 4.6 DIN 975 ASTM A 36, A193		
Threaded Rod (NTR) - 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

Item Code - NTR-M12-2000



Round Head (SRH) | DIN 7985

Round Head Machine Screws		
Round Head (NRH) DIN 7985		
Zinc Plated Thread	Length - (mm)	D - (mm)
M6	30-40	6.0
M8	30-40	8.0
M10	20-60	10.0

Item Code - NRH-M6-7985



Coupler Sleeves Rounded

Coupler Sleeves (SCS)

Coupler Sleeves Rounded				
Coupler Sleeves (NCS)				
Electroplated 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

Item Code - NCS-M6-SS



FRAMING SYSTEMS

Roofing Bolts (SRB)

- Materials : low carbon steel , carbon steel
- Steel S235 , grade 4.6 , 4.8 and 8.8
- Surfaces : plain , black and zinc plated
- Length = X (mm) – Y (mm)

Roofing Bolts				
Roofing Bolts (NRB)				
Thread Size	M4 x - y - (mm)	M5 x - y - (mm)	M6 x - y - (mm)	M8 x - y - (mm)
Lenth	10-50	10-80	12-120	16-150

Item Code - NRB-M6



Carriage Bolts with Nut Below Head DIN 603

Carriage Bolts (STC)

Carriage Bolts with Nut Below Head DIN 603					
Carriage Bolts (NCB)					
Zinc Plated	H.D. Galvanized Grade 4.6	Head - A - (mm)	Head - H - (mm)	Sq Width (mm)	Sq Depth (mm)
M5	M5	12	3	5	3.2
M6	M6	15.1	3.7	6.4	4
M8	M8	18.3	4.5	8.23	4.75
M10	M10	21.44	5.3	9.86	5.56
M16	M16	34.14	8.74	16.3	8.74

Item Code - NCB-M6-HD



Hexagon Nuts DIN 934, DIN EN 24032, ASTM A 563

Hexagon nut (SHN) | DIN 934 or ISO 4032 (= DIN EN 24032) | ASTM A563

Hexagon Nuts DIN 934, DIN EN 24032, ASTM A 563				
Hexagon nut (NHN) DIN 934 or ISO 4032 (= DIN EN 24032) ASTM A563				
Zinc Plated	Stainless Steel Thread	S/m Din - (mm)	S/m ISO - (mm)	E - (mm)
M6	M6	10/5	10/6	11.5
M8	M8	13/6.5	13/7.5	15
M10	M10	17/8	16/9.5	19.6
M12	M12	19/10	18/12	21.9
M16	M16	24/13	24/15.5	27.7
M18	M18	26/16	26/16	22
M20	M20	30/18	29/20.5	27

Item Code - NHN-M6-SS



Hexagonal Rod Coupler Grade 8.8 ASTM a 563

Hexagonal Rod Coupler with view hole (SHR)

Hexagonal Rod Coupler Grade 8.8 ASTM a 563				
Hexagonal Rod Coupler with view hole (NHR)				
Electroplated Thread	Stainless Steel Thread	D - (mm)	L - (mm)	Load Capacity (kn)
M10	M10	13	40	6.4
M12	M12	17	40	9.3
M16	M16	22	50	17.3
M18	M18	23	60	22
M20	M20	25	70	27

Item Code - NHR-M10-SS



DIN 933, DIN 24017, ASTM A307, A449

Hex Head Bolt (SHB) | DIN 933 or EN 24017 ASTM A307, A449 (without nut)

DIN 933, DIN 24017, ASTM A307, A449			
Hex Head Bolt (NHB) / DIN 933 or EN 24017 ASTM A307, A449 (without nut)			
Zinc Plated	Stainless Steel	S DIN - (mm)	S EN - (mm)
M 6 x 12		10	10
M 6 x 25			
M 8 x 25	M 8 x 25	13	13
M 8 x 40			
M 10 x 20		17	16
M 10 x 30	M 10 x 30		
M 10 x 45	M 10 x 45		
M 10 x 60			
M 10 x 70			
M 12 x 22		19	18
M 12 x 25	M 12 x 25		
M 12 x 30	M 12 x 30		
M 12 x 40	M 12 x 40		
M 12 x 50			
M 12 x 60	M 12 x 60		
M 12 x 80	M 12 x 80		
M 12 x 90			
M 16 x 40	M 16 x 40	24	24
M 16 x 60	M 16 x 60		
M 16 x 90	M 16 x 90		
M 18 x 40	M 18 x 40	27	26
M 18 x 50	M 18 x 50		
M 18 x 60	M 18 x 60		
M 18 x 80	M 18 x 80		
M 20 x 40	M 20 x 40	32	32
M 20 x 50	M 20 x 50		
M 20 x 60	M 20 x 60		
M 20 x 80	M 20 x 80		





CABLE TRAY SUPPORT SYSTEM



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NIPRAS STEEL FACTORY



CABLE TRAY SUPPORT SYSTEM



C - Channel

N S F metal framing C - Channel is cold formed on modern rolling machines from low carbon steel manufactured according to BS 6946: 1988. A continuous slot provides the ability to make attachments at any point.

Lengths

Standard length: 300mm with + 3.2mm length tolerance. Custom lengths are available upon request

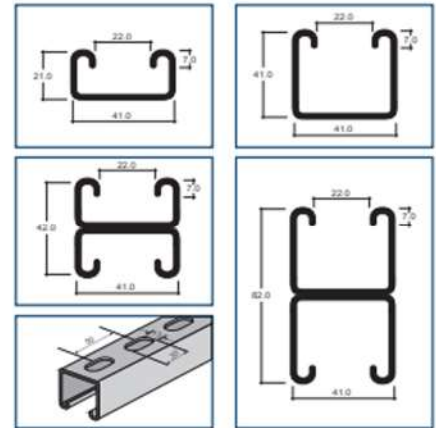
Finishes

Standard Finishes : Pre-Galvanized finish (ASTM A653M coating G90 and G60). Hot Dip Galvanized after fabrication (ASTM A123 or BS EN ISO 1461:2009). Other custom coatings are available upon request

METAL FRAMING C - CHANNELS

Selection Chart

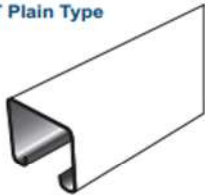
Part No.	Channel Dimensions		Thickness
	Height "H"	idth "W"	
C-Channel - 220/221	21.0 mm	41.0 mm	1.5 mm
C-Channel - 240/241	41.0 mm	41.0 mm	1.5 mm
C-Channel - 320/321	21.0 mm	41.0 mm	2.0 mm
C-Channel - 340/341	41.0 mm	41.0 mm	2.0 mm
C-Channel - 420/421	21.0 mm	41.0 mm	2.5 mm
C-Channel - 440/441	41.0 mm	41.0 mm	2.5 mm



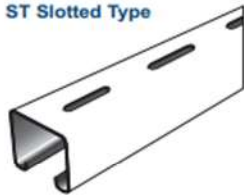
For Toothed Channel add "T" after the Part no. ex: C-CHANNEL - 220T

C - CHANNEL HOLE PATTERNS

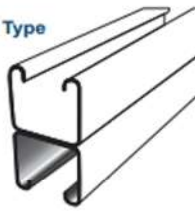
PT Plain Type



ST Slotted Type



B2B Type



Toothed C-Channel type



PT Type Channel

Part No.	Thick. mm.	Height "H"
C-Channel - 220	1.5	21.0
C-Channel - 240	1.5	41.0
C-Channel - 320	2.0	21.0
C-Channel - 340	2.0	41.0
C-Channel - 420	2.5	21.0
C-Channel - 440	2.5	41.0

ST Type Channel

Part No.	Thick. mm.	Height "H"
CChannel - 221	1.5	21.0
CChannel - 241	1.5	41.0
CChannel - 321	2.0	21.0
CChannel - 341	2.0	41.0
CChannel - 421	2.5	21.0
CChannel - 441	2.5	41.0

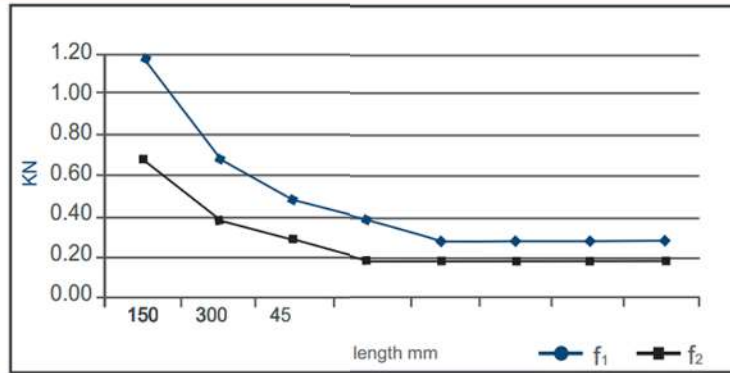
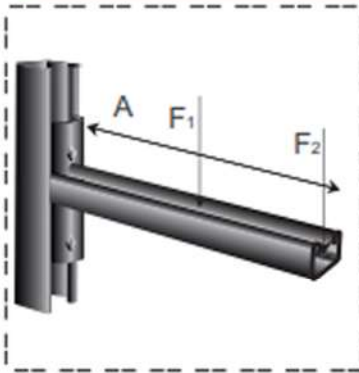
B2B Type Channel

Part No.	Thick. mm.	Height "H"
C-Channel - 222	1.5	42.0
C-Channel - 242	1.5	82.0
C-Channel - 322	2.0	42.0
C-Channel - 342	2.0	82.0
C-Channel - 422	2.5	42.0
C-Channel - 442	2.5	82.0

For Toothed Channel add "T" after the Part no. ex: CCH-220T



CANTILEVER ARM BRACKETS - SCA



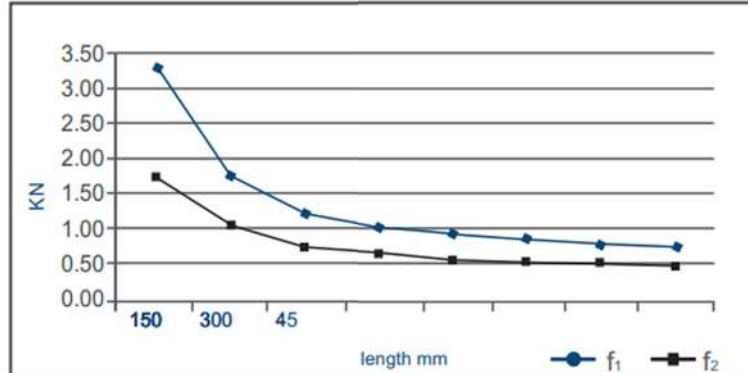
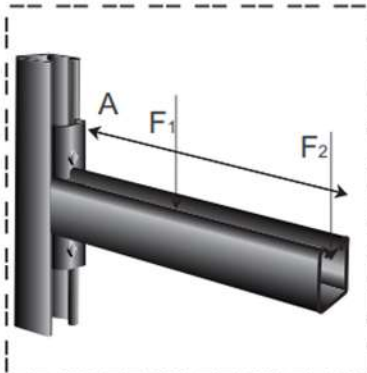
Length A (mm)	Allowable Load		
	F ₁ * (KN)	F ₂ * (KN)	F ₃ * (KN)
150	1.10	0.60	3.10
300	0.60	0.30	3.10
450	0.40	0.20	3.10
600	0.30	0.10	3.10
700	0.20	0.10	3.10
800	0.20	0.10	3.10
900	0.20	0.10	3.10
1000	0.20	0.10	3.10

Base plate : height (h) x width (b) x thickness (t)
120 50 8

- In the case of concrete support, use anchor M10.
- In the case of C-Channel frame, use bolt and spring nut M8.

** Connection force (pull out force) : 3.1 (KN).

CCH 441 41X21X2.5

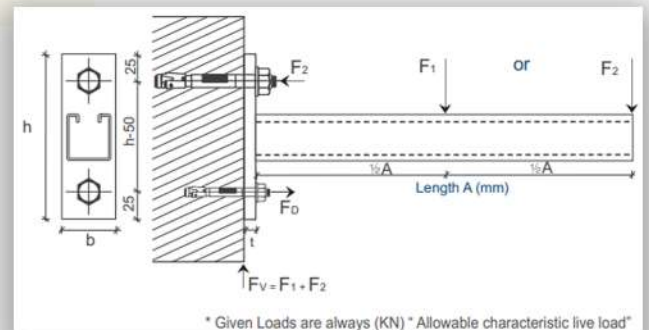


Length A (mm)	Allowable Load		
	F ₁ * (KN)	F ₂ * (KN)	F ₃ * (KN)
150	3.10	1.50	7.50
300	1.50	0.80	7.50
450	1.00	0.50	7.50
600	0.80	0.40	7.50
700	0.70	0.30	7.50
800	0.60	0.30	7.50
900	0.50	0.30	7.50
1000	0.50	0.20	7.50

Base plate : height (h) x width (b) x thickness (t)
140 50 10

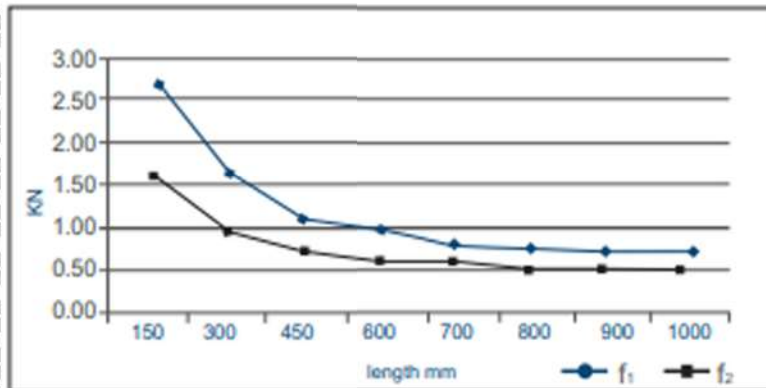
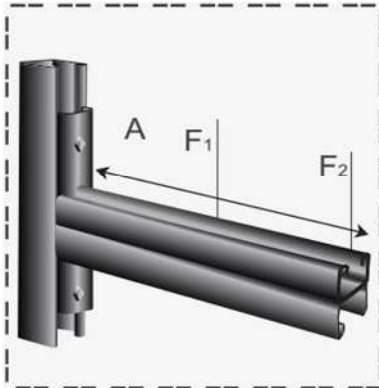
- In the case of concrete support, use anchor M16.
- In the case of C-Channel frame, use bolt and spring M8.

** Connection force (pull out force) : 7.5 (KN).



CANTILEVER ARM BRACKETS B2B-SCA

CCH421 41X21X2.5 B2B

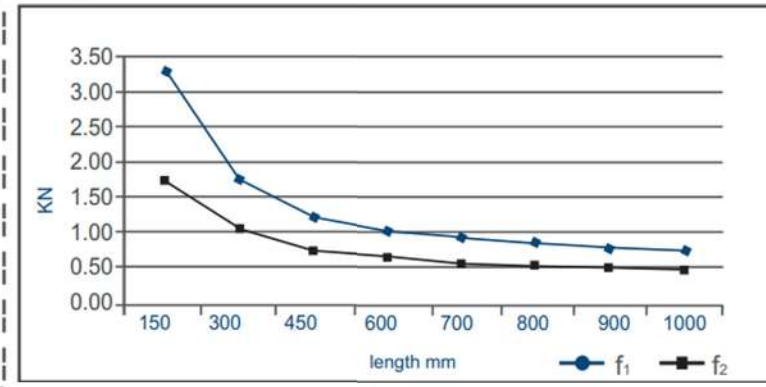
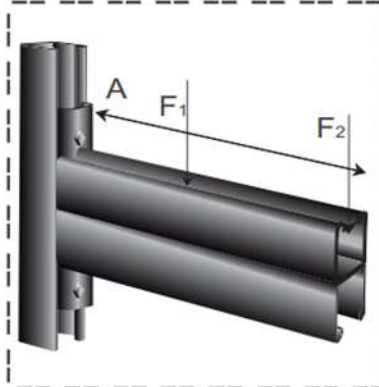


Length A (mm)	Allowable Load		
	F ₁ * (KN)	F ₂ * (KN)	F ₃ ** (KN)
150	2.50	1.30	4.80
300	1.30	0.60	4.80
450	0.80	0.40	4.80
600	0.60	0.30	4.80
700	0.50	0.30	4.80
800	0.50	0.20	4.80
900	0.40	0.20	4.80
1000	0.40	0.20	4.80

Base Plate: height(h) x width(b) x thickness(t)
140 50 10

- In the case of concrete support, use anchor M12.
- In the case of C-Channel frame, use bolt and spring nut M8.
- **Connection force (pull out force) : 4.6(KN).

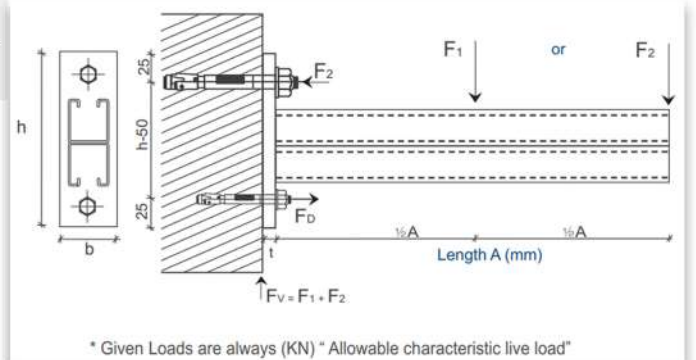
CCH421 41X41X2.5 B2B

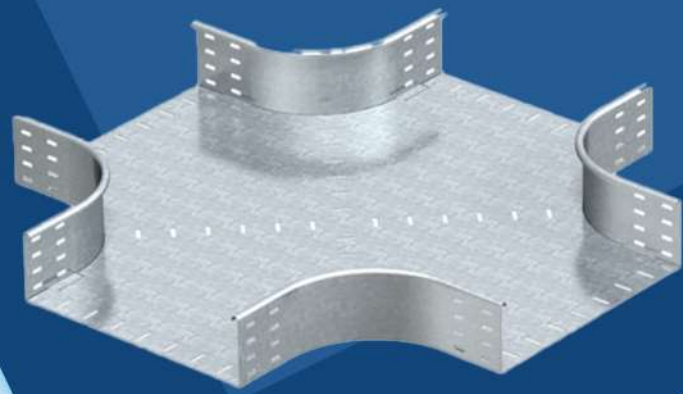


Length A (mm)	Allowable Load		
	F ₁ * (KN)	F ₂ * (KN)	F ₃ ** (KN)
150	7.00	3.50	8.30
300	3.50	1.80	8.30
450	2.30	1.20	8.30
600	1.80	0.90	8.30
700	1.50	0.80	8.30
800	1.30	0.70	8.30
900	1.20	0.60	8.30
1000	1.10	0.50	8.30

Base Plate: height(h) x width(b) x thickness(t)
180 60 12

- In the case of concrete support, use anchor M16.
- In the case of C-Channel frame, use bolt and spring nut M10.
- **Connection force (pull out force) : 8.3(KN).





ORDER DETAILS



مصنع نبراس المعادن
NIPRAS STEEL FACTORY

ORDER CODES

FOR CABLE TRAYS - ORDER BY CODE
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 width (w) : 50 mm	1.00	0.65
		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	Not Required	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									

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	NORB-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



Accredited to the following Standards



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.



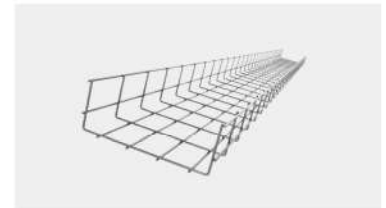
Cable tray & Accessories



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

RANGE OF PRODUCTS

ARCHITECTURAL ENGINEERING SOLUTION



Roof Access Hatch



Handrail



Garbage & Linen Chute



Access Raised Floor



Lockers



Ladders



Gratings (Steel / Galvanized)



Steel Bollards



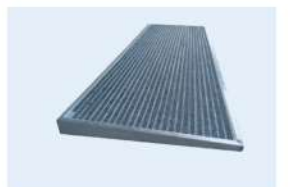
Fence



Toilet Partitions



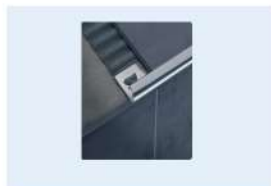
Metal Gates



Entrance Mats



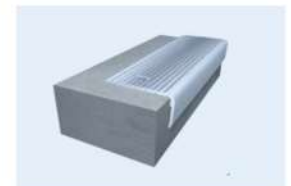
Expansion Joint System



Tile & Carpet Trim



Impact Protection



Stair Nosing

BLOCK WORK AND PLASTERING ACCESORIES



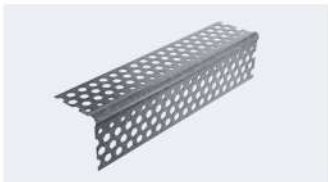
Block Reinforcement



Steel Lintel



Adjustable head restraint



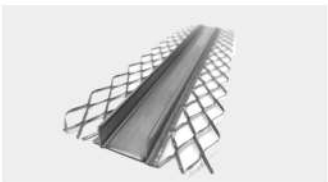
Angle Bead



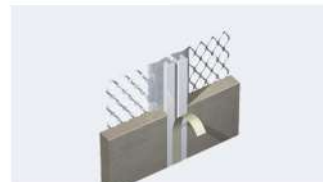
Plaster Stop Bead



Control Joint



Architrave Bead



Movement Bead



Depth Gauge Bead



Corrugated Strip & Angle



Corner Mesh



Metal Sheet Lath



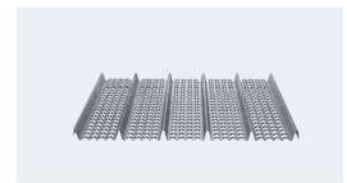
Strip Mesh



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



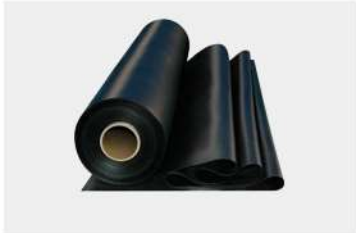
Steel Wire Mesh



Binding wire

RANGE OF PRODUCTS

WATER PROOFING & THERMAL INSULATION



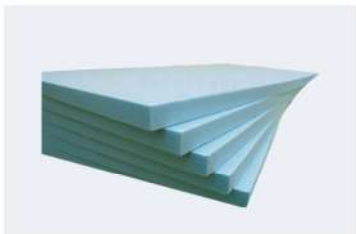
Bitumen Membrane



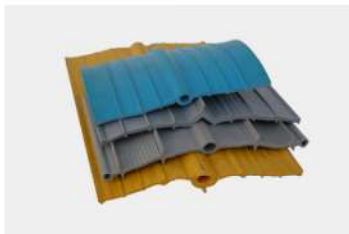
Rock Walls



Geotextile



Extruded Polysterene



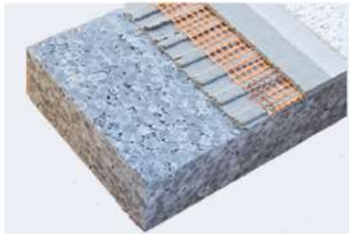
PVC Waterstop



Protection Board



Liquid Membrane



Expanded Polysterene



Foam Backing Rods



Polyethelene Sheet



Cork Sheet



Flashing Aluminium

GYPSUM PARTITIONS & SUSPENDED CEILING



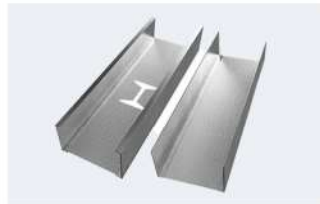
Gypsum Board



Cement Board



Access Panel



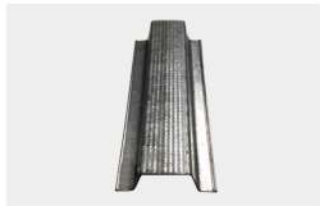
Studs & Runner



**Ceiling Furring Channel
& Channel Bracket**



**Perimeter & Dry Wall
Angle**



Furring Channel



Adjustable Rod Hanger



C- Bracket



Joint Mesh



Wire Connecting Clip



Gypsum Putty



**Dry Wall & Self
Drilling Screws**

RANGE OF PRODUCTS

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 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. NSF strives to eliminate



Accredited to the following Standards





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