



VietPhat

PROFILE COMPANY



**VIET PHAT TECHNOLOGY
INVESTMENT JOINT STOCK
COMPANY**

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0258 3745 909

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Nha Trang city, Khanh Hoa province.

 vietphat-jsc.com

CATEGORY

02 OPEN LETTER

03 PART I: INTRODUCE

03 INTRODUCE ABOUT THE COMPANY

04 FIELD OF ACTIVITIES

05 FACTORY INFORMATION

07 INTRODUCTION OF WORKING SERVICES

10 CONSTRUCTION INSTALLATION M&E
SYSTEM, CENTRAL AIR SYSTEM

14 PART II: PRODUCT

14 MANUFACTURING - EXPORTING ELECTRICAL SYSTEM
INSTALLATION ACCESSORIES

18 MANUFACTURING CABLE TRAYS - CABLE LADDER -
WIND PIPE

26 MANUFACTURING IRON FILLING CABINET - LIBRARY
IRON SHELF

40 MANUFACTURING MULTI-FUNCTIONAL SHELF -
CAREER STORAGES CABINET

OPEN LETTER

Dear Customers,

First of all, on behalf of **Viet Phat Technology Investment Joint Stock Company**, I would like to send to you my respectful greetings and best wishes for health and success.

With the motto as well as the guideline of Viet Phat is that each product, each project is a combination of high art, precise technique and perfect usability to every little detail. This is completely consistent with the capacity and experience, confirmed through the prestige and brand name of Viet Phat, with the task of creating specialized, impressive, high-quality works and contributing to building a humane population towards the prosperity and prosperity of the society. We are committed to bringing customers maximum satisfaction with high quality products, on schedule with the most reasonable price.

On behalf of **Viet Phat Technology Investment Joint Stock Company**, I would like to thank our customers for their trust and cooperation in the past time. Hopefully, Viet Phat will make a small contribution to the success of our customers.

Best regards,

MANAGER



NGUYỄN HỮU THẠCH

PART I : INTRODUCE

1 INTRODUCE ABOUT THE COMPANY



VIET PHAT TECHNOLOGY INVESTMENT JOINT STOCK COMPANY

Tax code:
4201612793

Account number: 0061000586868
Joint Stock Commercial Bank for Foreign Trade of Vietnam - Nha Trang

Headquarters:

Add: Km5 October 23, Vinh Hiep commune, Nha Trang city, Khanh Hoa province.
Tel: 096 94 77 979

Representative office:

Add: 260/11 Nguyen Thai Binh, Ward 12, Tan Binh District, Ho Chi Minh City.

Register date:
September 9, 2014

Website:
vietphat-jsc.com

Factory:
Add: Cu Thanh village, Suoi Hiep commune, Dien Khanh district, Khanh Hoa province.

PARTNERS



2 FIELD OF ACTIVITIES

Manufacturing - processing warehouse shelves, supermarket shelves, decorative shelves,...

Trading in furniture and equipment for Office - Hotel.

Processing accessories for cable trays, ducts, ... iron cabinets.

Construction and installation of M&E system and central air conditioning

Supply of electronic equipment and accessories for cars and motorbikes.



3 GENERAL INTRODUCTION

● **Viet Phat Company** has supported the civil electricity industry for more than 10 years with the production and supply of cable tray ladders, meter boxes, electrical cabinets and used metal fabrication components in the construction and interior industries (Cabinets). irons, safes, iron shelves). The factory is located in Dien Khanh, Khanh Hoa, Vietnam with a production history of more than 20 years. We have a team of skilled and enthusiastic technicians, allowing the automation company to produce high quality products of a wide range of core products, we are the right choice! Get ready for your next OEM-ODM needs and orders!

● **Why choose us:**

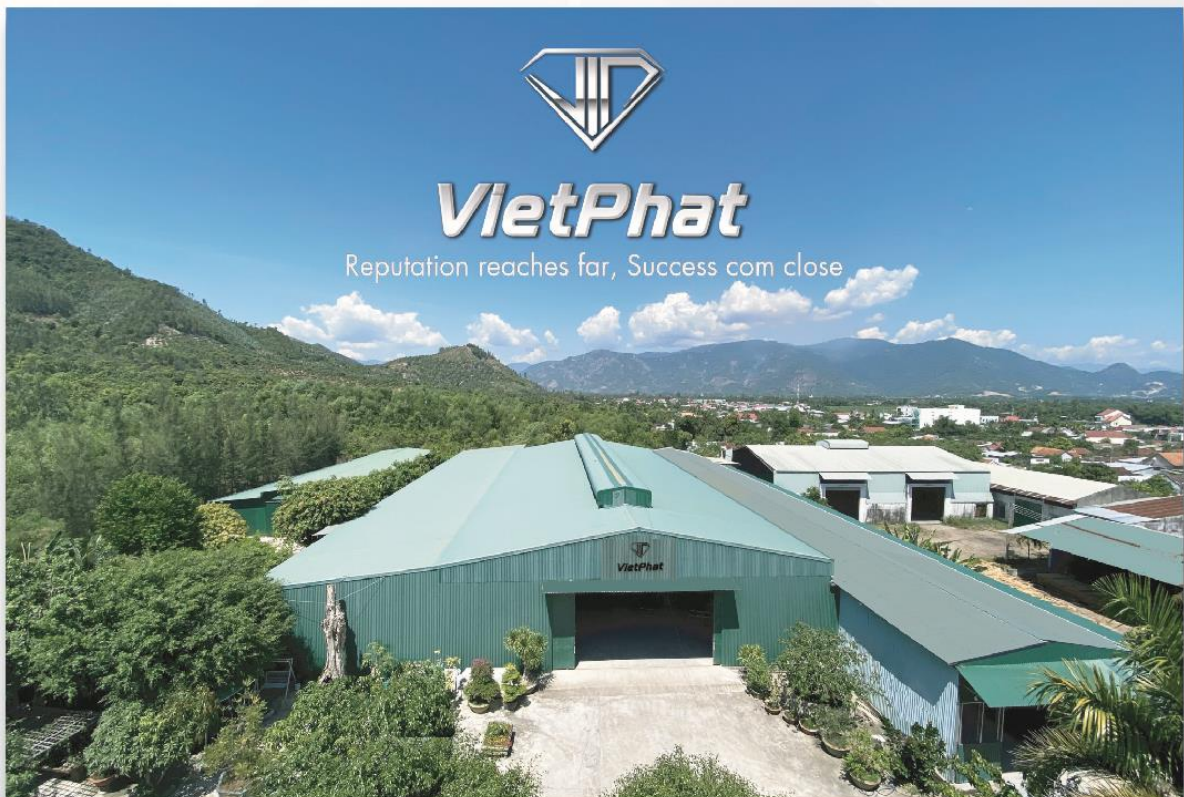
- 10 years of supporting the electricity industry and the civil industry.
- 24/7 customer service
- The product meets the standards and is being exported to Australia and the US market

4

FACTORY INFORMATION



- **Factory Area** : 20.000m2
- **Factory in Country** : Cu Thanh village, Suoi Hiep commune, Dien Khanh district, Khanh Hoa province, Vietnam
- **Number of production lines** : 5
- **Total number of employees** : 100-150 person
- **Total annual revenue** : ~ 5 million US dollars
- **Contract production** : OEM Service Offered, Design Service Offered, Buyer Label Offered
- **Terms of delivery** : FOB, EXW, DDU, Express Delivery
- **Payments** : T/T, L/C, D/P D/A, MoneyGram, PayPal
- **Payment currency** : VND/USD
- **Nearest port** : Cát Lái, Cái Mép, Cam Ranh



5 FACTORY IMAGES





VietPhat

CNC CUTTING



This service will serve and support other industries to create finished products such as gates, railings or stairs, gate doors...

Viet Phat's CNC technology can create details according to the wishes or requirements of customers.

Materials that can be made: iron, steel, aluminum, stainless steel, ...

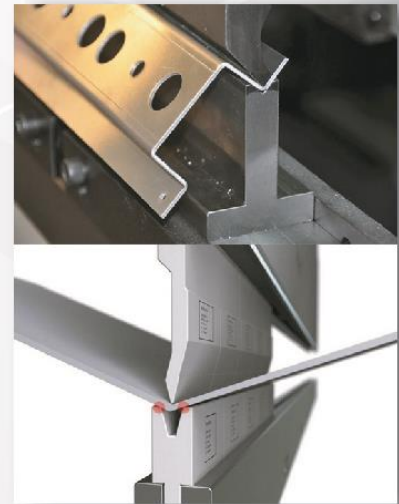
Possible thickness: between 2mm and 12mm

Size: The size is not limited, depending on the requirements of each customer.

PUNCHING CUT

Viet Phat receives sheet metal stamping processing at the request of customers with competitive prices. Pressing and stamping processing at Viet Phat is processed by new bending machines, modern CNC technology, so it ensures very high productivity, accuracy and aesthetics.

Pressing and bending processing is a very important step in mechanical processing, manufacturing and processing products from sheet metal such as: stainless steel, aluminum, tole, etc. Thanks to the strong force from the bending machine, the metal workpieces are bent. Shaped to the right size, structure – something that ordinary tools are difficult to do



POWDER COATING



Powder coating is a popular coating technology today, this technology uses electronic principles to create adhesion to the paint film.

As are the inherent characteristics of powder coatings, they are only suitable for metal surfaces. Therefore, this type of coating technology is often used in household and industrial machinery.

They have strong adhesion, as well as very high adhesion. More special with glossy paint film, rich variety of colors. Durability against sun and rain, as well as inclement weather.

Longevity and gloss, durable similar to oil paint, industrial epoxy paint. Protects metal surfaces from corrosion by oxidizing chemicals.

GALVANIZING PROCESSING

Galvanizing is a form of plating a layer of zinc on the metal surface to create a protective layer for the surface, helping to resist corrosion, rust, improve quality and increase the aesthetics of the product.

Galvanizing is very popular in industry, because the zinc layer does not peel off and effectively resists rust and corrosion for metals. Therefore, zinc plating is considered an indispensable part to protect the product for long-term and safe use.

HOT DIP GALVANIZED LINE is a technology to create a zinc coating that adheres firmly to the substrate surface of iron and steel parts by directly immersing the steel in a zinc bath to create a chemical reaction between zinc and the metal surface to form a strong protective layer against Abrasion as well as the plating layer has an even thickness, is stable, shiny and not rough, creating an aesthetic appearance for the product.

Hot dip galvanizing process in Viet Phat ensure compliance with ASTM (or other equivalent standards such as CAN/CSA G164, ISO 1461) including the following basic steps:

1. Clean metal surface before plating
2. Embed support
3. Hot dipped galvanized





ELECTRICAL GALVANIZING LINE a method of precipitation on the surface of the base metal with a thin layer of zinc that works to prevent corrosion, adorn the surface and improve electrical conductivity, increase the size as well as increase the hardness of the product surface.

Advantages of electrolytic galvanizing

- Low cost: Compared to coating the surface, using this method helps to reduce production costs.
 - High strength: In chemistry, zinc is a metal with high chemical resistance. When combined with zinc plating for steel, it will increase outstanding durability, and resist mechanical impacts.
- Corrosion resistance: Compared to iron, zinc is more susceptible to corrosion. Should have a protective layer of zinc, the steel will not corrode, adorn the surface and improve electrical conductivity, increase the size as well as increase the hardness of the product surface.



Industries applying electroplating technology

- Construction industry: used in plating water pipes, railway lines, outdoor objects, plating bearing objects, ..
- Telecommunications industry: used to plating antenna pillars, other auxiliary equipment, ...
- In civil production: used to plated jewelry, copper urns, medals, dishes, other household items, etc.
- In the field of high science: used for plating distribution robots, arrows, ...
- In waterway works: electroplating technology is used to galvanize bridge piers.

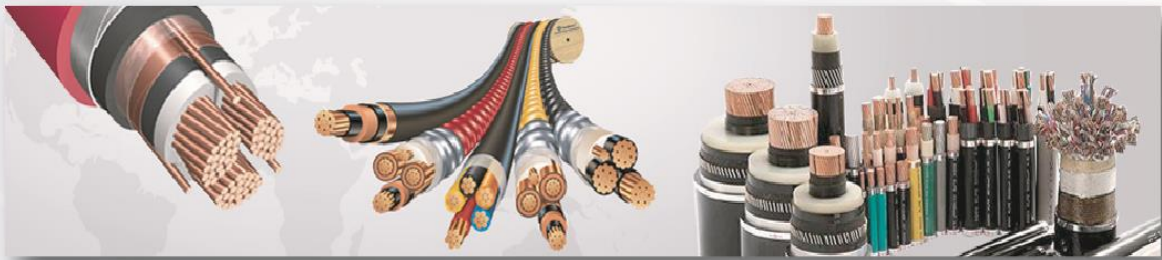


M&E system

Usually, a project is divided into 2 main parts: Construction & M&E (referred to as M&E, Mechanical & Electrical), the M&E part accounts for about 40-60% of the total volume of the project. In the M&E section, it is divided into 4 main categories:

- Heating Ventilation Air Conditioning (HVAC) system
- Water supply and drainage and sanitary equipment (Plumbing & Sanitary, referred to as P&S for short)
- Electrical Part (Electrical)
- Fire alarm & fire fighting system

Of the above 4 items, the Electrical part accounts for about 40-60% of the M&E volume (Depending on the project, it can even be up to 70.80%).



The Electrical part can be divided into the following parts:

-----Heavy electricity

- Main power supply: is the main power supply system, including medium voltage cabinets, medium voltage lines, 24kV/0.4kV transformers and main switchgear (called MSB, main switch board). May have additional (Automatic Voltage Regulator System: Automatic Voltage Regulator System, AVR for short)
- System of distribution cabinets: Submain power supply (including power supply for motivation, production, lighting, sockets ...)
- Living lighting system: Lighting
- Socket system: Socket outlet
- Emergency lighting system: Emergency lighting (exit light, emergency light)
- Earthing system: Earthing system (or grounding system)
- Lightning protection system: Lightning protection system (including grounding rods and lightning collector, other than grounding system)

-----Light electricity

- LAN and Internet system: Data network system
- Telephone system: Telephone system
- Security monitoring system: Security & Supervisor system.
- PA system (public address system)...



-----Grounding system:

An earthing system is a collection of objects capable of conducting electricity at any location any shape (metal tube, rod, wire, plate or electrode graphite etc.) is located in direct contact with earth and is connected to separated by metal wires, forming an electrical bond with a single electric charge definite impedance. Conductive conductors used to connect the earthing network to the Metal structures and electrical equipment that need to be grounded are also part of the system Grounding. The grounding system can be divided into many functions such as: grounding for lightning protection, grounding for work, earthing for protection, etc.

-----Some standards in grounding design:

- Spain: RBT2002: "Low Voltage Electrotechnical Regulation". ITC-18 "Earthing systems".
- Great Britain: BS 7430: "Code of practice for Earthing".
- France: NF C 15-100: "Low Voltage Electrical Installations".
- Germany: DIN VDE 0100: "Earthing arrangements, protective conductors, equipotential bonding conductors".
- USA: UL 467: "Grounding and bonding equipment".
- VN: TCXDVN 46-2007: Lightning protection for construction works-Guidelines for system design, inspection & maintenance.
- VN: QCVN 9-2010/BTTTT: National regulation on grounding for telecommunication stations.

-----Earthing for safety protection:

- Ensure human safety by minimum touch voltage
- Secure installation and equipment by low-resistance path
- Eliminate electromagnetic interference to ensure signal line quality
- Create standard reference voltage levels for electrical equipment systems.
- The low value of resistance measured by the meter is a key factor in determining the effectiveness of the earthing system, conductors with cross-section must be large enough to carry backup currents and must be well resistant to metal corrosion.



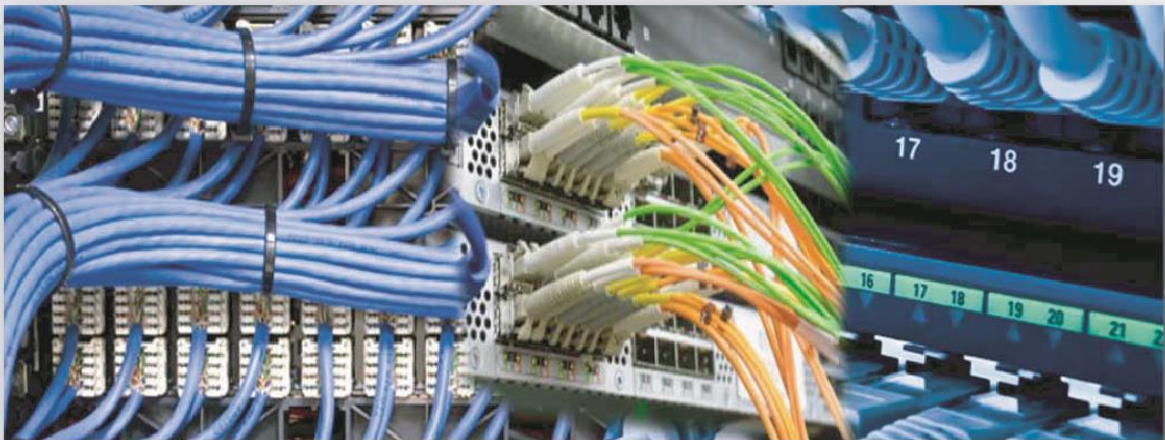
-----Notes in the design of the grounding system:

- Measuring the resistivity of the soil is the first work to be done. A grounding resistance test box must be provided for regular checking.
- Soil moisture will reduce ground resistance. Conductive chemicals will reduce the earth resistance and heat solder for the best bonding.
- Underground electric poles and gas pipes must ensure a safe distance.
- Underground buried water pipes and containers must be grounded.

-----Lightning protection system:

This is an important part of the lightning protection system, where the lightning current is dissipated. Each down conductor shall be connected to the grounding system and shall be electrically well bonded. A good grounding system will withstand lightning strikes, dissipating the current quickly and safely. One of the most important requirements for a direct lightning protection grounding system is to have a grounding resistance value of less than 10 Ohm. The lightning protection grounding system must ensure dissipation of lightning current, overvoltage and no danger caused by step voltage.

The design, selection of materials and methods of grounding should be based on calculations and specific terrain characteristics.





Central air conditioning system

A central air conditioning system is a system consisting of one or many central machines combine into a distributed system cold for all areas in the building. Central air conditioning system The center uses water as a refrigerant through a pipeline system water into the heat exchangers to cool the air.

-----Central air conditioning system includes the following main parts:

- Central air conditioner (CHILLER): Is a device that produces cold water through the pipeline system to supply heat exchangers installed in air-conditioned spaces to cool the air.
- Heat exchanger units (FAN COIL UNITS – FCUs): These are devices located in areas that need air conditioning (the capacity of the heat exchangers is selected based on the required cooling capacity of the room and different types are installed.), where cold water from the air conditioner passes through the indoor unit to exchange heat with the room air and perform the cooling function.
- Cooling tower and water pump: used to perform the function of releasing heat energy of the condenser (air conditioner) after the air conditioner performs the work of cooling the water in the evaporator.
- Piping system and cold water pump: It is a cold water distribution system from the central air conditioner to the FCU heat exchangers.
- Cold air distribution piping system: It is a system to distribute cold air from the FCUs through the blowers to the areas that need to be air-conditioned.
- Electrical control system: Is a control system that interlocks the equipment in the system (air

* What will you get from Viet Phat

1. Coming to Viet Phat you will have the most reasonable products.
2. With a team of experts, engineers with professional and practical experience. You will always feel the service is dedicated, attentive and extremely professional. Especially with consulting services for design, supervision and construction of all items in M&E and central air conditioning system as mentioned above.
3. And most especially, the customer care system during and after the sale is extremely professional. We are committed to be there to support the customer when the customer notices.

We GUARANTEE to bring satisfaction to our customers!

PART II: PRODUCTION

1

EXPORT ELECTRICAL SYSTEM INSTALLATION ACCESSORIES DETAILS.

In order for the electrical system in your home to be complete and effective, in addition to the main accessories and equipment involved in the installation process, the auxiliary system in the power line is also extremely important. Viet Phat would like to share some auxiliary devices that play certain roles in the power line system. Our products are hot-dip galvanized suitable and safe for outdoor installation, suitable for hot humid tropical climates and aggressive salt water. Our products below are qualified to export through the Australian market. Pleased to introduce!


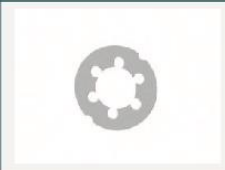






(Contact us directly for specific model information)

ITEM	PRODUCT NAME	PHOTO (1)	PHOTO (2)	COUNTRY OF ORIGIN	PRODUCT DESCRIPTION
1	Victorian Temp T Bracket			VIET NAM	<ul style="list-style-type: none"> * Thanh V treo tủ điện * Mạ kẽm nóng, chịu được môi trường khắc nghiệt * V bar hanging electrical cabinets * Hot galvanizing, resistant to harsh environments
2	HDG SA Cable Hanger Riser Bracket 900mm 1 Phase			VIET NAM	<ul style="list-style-type: none"> * Thanh đỡ để treo cáp điện và tủ điện * Kẽm nhúng nóng, chịu được môi trường khắc nghiệt. * Support bar for hanging electrical cables and electrical cabinets * Hot dipped zinc, resistant to harsh environments.
3	HDG NSW Single Fascia Point of Attachment Bracket 300mm 1 Phase rated at 1kN			VIET NAM	<ul style="list-style-type: none"> * Thanh đỡ để treo cáp điện và tủ điện * Kẽm nhúng nóng, chịu được môi trường khắc nghiệt. * Support bar for hanging electrical cables and electrical cabinets * Hot dipped zinc, resistant to harsh environments.
4	Lock Off Tab Stainless Steel - Jeff Taken 600pcs 20/6/2019			VIET NAM	<ul style="list-style-type: none"> * Thép không gỉ * Stainless steel
5	Lockable Security Cover Kit 4.5 Pole			VIET NAM	<ul style="list-style-type: none"> * Thép tấm mạ kẽm * Sơn tĩnh điện * Galvanized steel plate * Powder Coating
6	HDG Victorian Through Tile Rafter Mount 450mm 1 Phase rated at 1kN			VIET NAM	<ul style="list-style-type: none"> * Móc treo cáp điện * Mạ kẽm nhúng nóng để chịu được môi trường khắc nghiệt * Power cable hangers * Hot-dip galvanized to withstand harsh environments
7	Tripod Tile Roof Antenna Mount (With Pole 1,2m - Sample 10)			VIET NAM	<ul style="list-style-type: none"> * Thanh đỡ thiết bị điện * Kẽm nhúng nóng, chịu được môi trường khắc nghiệt. * Electrical equipment support bar * Hot dip zinc, withstand harsh environment.



ITEM	PRODUCT NAME	PHOTO (1)	PHOTO (2)	COUNTRY OF ORIGIN	PRODUCT DESCRIPTION
8	CFAM Curved Fascia Antenna Mount			VIET NAM	<ul style="list-style-type: none"> * Thanh treo tủ điện * Kèm nhúng nóng, chịu được môi trường khắc nghiệt * <i>Electric cabinet hanging bar</i> * <i>Hot dip zinc, withstand harsh environments</i>
9	Earth Rod With Flag, Bolt & Nut			VIET NAM	<ul style="list-style-type: none"> * Thanh tiếp địa * <i>Ground rod</i>
10	Mains Cover 100mm x 1200mm x 3mm			VIET NAM	<ul style="list-style-type: none"> * Thanh chữ U bảo vệ dây dẫn * Kèm nhúng nóng, chịu được môi trường khắc nghiệt * <i>U-bars protect wires</i> * <i>Hot dip zinc, withstand harsh environments</i>
11	450x40sq tube Monnting point 1PH outlet- bolt-down			VIET NAM	<ul style="list-style-type: none"> * Thanh đỡ thiết bị điện * Kèm nhúng nóng, chịu được môi trường khắc nghiệt * <i>Electrical equipment support bar</i> * <i>Hot dip zinc, withstand harsh environments</i>
12	Pole Mounting Bracket Three Phase - Hot Dipped Galvanised Steel			VIET NAM	<ul style="list-style-type: none"> * Tấm đỡ thiết bị điện * Kèm nhúng nóng, chịu được môi trường khắc nghiệt * <i>Electrical equipment support plate</i> * <i>Hot dip zinc, withstand harsh environments</i>
13	Bracket 3 Phase Pole Mounting 150mm Stand-off (HDG)			VIET NAM	<ul style="list-style-type: none"> * Tấm đỡ thiết bị điện * Kèm nhúng nóng, chịu được môi trường khắc nghiệt * <i>Electrical equipment support plate</i> * <i>Hot dip zinc, withstand harsh environments</i>
14	Cable Reel Stand - Hot Dipped Galvanised Steel			VIET NAM	<ul style="list-style-type: none"> * Tấm đỡ thiết bị điện * Kèm nhúng nóng, chịu được môi trường khắc nghiệt * <i>Electrical equipment support plate</i> * <i>Hot dip zinc, withstand harsh environments</i>

ITEM	PRODUCT NAME	PHOTO (1)	PHOTO (2)	COUNTRY OF ORIGIN	PRODUCT DESCRIPTION
15	Angle Marshall bracket single phase			VIET NAM	<ul style="list-style-type: none"> * Tấm đỡ thiết bị điện * Kèm nhúng nóng, chịu được môi trường khắc nghiệt * <i>Electrical equipment support plate</i> * <i>Hot dip zinc, withstand harsh environments</i>
16	Bracket Single Phase Pole Mounting - HDG			VIET NAM	<ul style="list-style-type: none"> * Tấm đỡ thiết bị điện * Kèm nhúng nóng, chịu được môi trường khắc nghiệt * <i>Electrical equipment support plate</i> * <i>Hot dip zinc, withstand harsh environments</i>
17	Stay kit for raiser brackets phase 2mt S/steel			VIET NAM	<ul style="list-style-type: none"> * Thanh treo cáp * Mạ kẽm nhúng nóng chịu được môi trường khắc nghiệt * <i>Cable hanger bar</i> * <i>Hot dip galvanized withstand harsh environments</i>
18	Flat Surface Lighting Bracket 300mm Length			VIET NAM	<ul style="list-style-type: none"> * Móc treo cáp điện * Mạ kẽm nhúng nóng chịu được môi trường khắc nghiệt * <i>Power cable hangers</i> * <i>Hot-dip galvanized to withstand harsh environments</i>
19	Facia bracket three phase 840mm 2kN (includes Fittings as per sample)			VIET NAM	<ul style="list-style-type: none"> * Móc treo cáp điện * Mạ kẽm nhúng nóng chịu được môi trường khắc nghiệt * <i>Power cable hangers</i> * <i>Hot-dip galvanized to withstand harsh environments</i>
20	Rafter bracket single phase 840mm 1kN (includes Fittings as per sample)			VIET NAM	<ul style="list-style-type: none"> * Móc treo cáp điện * Mạ kẽm nhúng nóng chịu được môi trường khắc nghiệt * <i>Power cable hangers</i> * <i>Hot-dip galvanized to withstand harsh environments</i>
21	Vertical Point Of Attachment HDG			VIET NAM	<ul style="list-style-type: none"> * Thanh treo cáp * Mạ kẽm nhúng nóng chịu được môi trường khắc nghiệt * <i>Cable hanger bar</i> * <i>Hot dip galvanized withstand harsh environments</i>
22	Ring Point Of Attachment HDG			VIET NAM	<ul style="list-style-type: none"> * Thanh treo cáp * Mạ kẽm nhúng nóng chịu được môi trường khắc nghiệt * <i>Cable hanger bar</i> * <i>Hot dip galvanized withstand harsh environments</i>
23	NBN Low Level Bracket 1.2mm Galvanised Steel			VIET NAM	<ul style="list-style-type: none"> * Tấm đỡ CB điện * Mạ kẽm nhúng nóng chịu được môi trường khắc nghiệt * <i>Electric CB support plate</i> * <i>Hot dip galvanized withstand harsh environments</i>

ITEM	PRODUCT NAME	PHOTO (1)	PHOTO (2)	COUNTRY OF ORIGIN	PRODUCT DESCRIPTION
24	NBN Ring Washer 1.2mm Galvanised Steel			VIET NAM	* Tấm đỡ dây điện * <i>Wire support plate</i>
25	600mm x 600mm x 100mm Blank Panel & Surround			VIET NAM	* Tủ điện 1 cửa * Mạ kẽm nhúng nóng chịu được môi trường khắc nghiệt * <i>1 door electric cabinet</i> * <i>Hot dip galvanized withstand harsh environments</i>
26	Galvanized Air Conditioning Condenser Cage 640mm(L) x 1,000mm (w) x 900mm (h) - HDG			VIET NAM	* Khung lắp bảo vệ thiết bị điện * Mạ kẽm nhúng nóng chịu được môi trường khắc nghiệt * <i>Electrical equipment protection mounting frame</i> * <i>Hot dip galvanized withstand harsh environments</i>
27	Galvanized Air Conditioning Condenser Cage 640mm(L) x 1,200mm (w) x 1,600mm (h) - HDG			VIET NAM	* Khung lắp bảo vệ thiết bị điện * Mạ kẽm nhúng nóng chịu được môi trường khắc nghiệt * <i>Electrical equipment protection mounting frame</i> * <i>Hot dip galvanized withstand harsh environments</i>

EXPORT PACKING PHOTOS

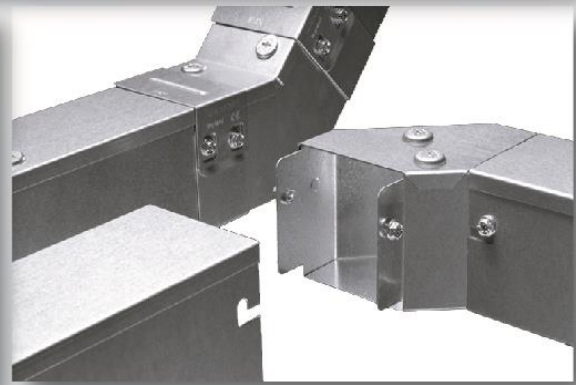


2.1 CABLE TRAYS

Electrical cable tray - Trunking is a trough used for installation, containing electrical cables, wires, and communication wires in construction works. Today, industrial electrical cable trays are widely used because of their industrial, safe and aesthetic properties.

Cable trays for outdoor installation need to use powder coated cable trays, galvanized corrugated iron cable trays, hot dip galvanized corrugated iron cable trays to withstand direct impacts from rain, sun, humidity, radiation... from the climate. . Common cable tray paint colors: Gray, white, gray, wrinkled cream, red, orange ... many colors for customers to choose.

Industrial electrical troughs are installed outdoors or indoors, installed on the ceiling or under the floor depending on the design.



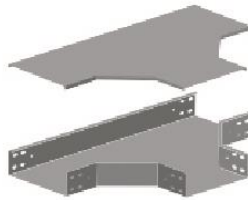


ACCESSORIES CABLE TRAYS



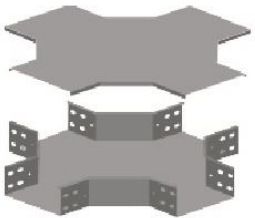
Connect the letter L

Used to redirect cable tray system 90 degrees on the same plane.



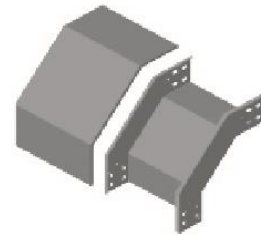
Connecting fork 3

Cable trays are often used to divide the cable tray system into 3 different directions lying on the same plane.



Crossing 4

Cross cable trays to divide the cable tray system into 4 directions on the same plane.



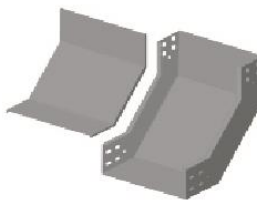
Downward contraction

Downward contraction is used to move the cable tray system perpendicular to the original plane in the downward direction.



Reducing connection

Reducing connection is used for trough systems that want to reduce width (W) or just reduce width and height (W, H)



Connect up

Connect up is to move the cable tray system perpendicular to the original plane in the upward direction.



Cable tray connection

Used to connect cable trays.



Cable tray end

Used to seal cable trays.

2.2 PERFORATED CABLE TRAY

Cable tray (also known as electrical tray or cable tray) is a guide tray used for installing electrical wires and cables in factories, apartments, buildings...

Standard features:

- Material: Powder coated black corrugated iron; Galvanised aluminium; Stainless steel 201, 304, 316; hot dipped galvanized sheet.
- Standard length: 2.4m, 2.5m or 3.0m/tree.
- Dimensions width: 100-1000 mm.
- Size height: 30-200mm.
- Material thickness: 0.8mm, 1.0mm, 1.2mm, 1.5mm, 2.0mm, 2.5mm.
- Common color: white, wrinkle cream, gray, orange or the color of the material. Other colors according to customer's request





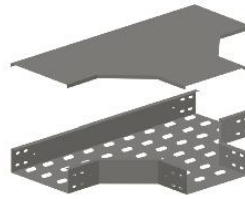
VietPhat

ACCESSORIES PERFORATED CABLE TRAYS



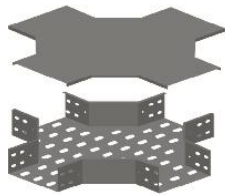
Connect the letter L

Used to redirect cable tray system 90 degrees on the same plane.



Connecting fork 3

Cable trays are often used to divide the cable tray system into 3 different directions lying on the same plane.



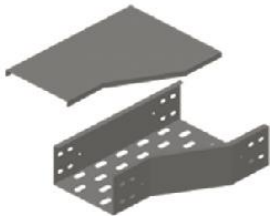
Crossing 4

Cross cable trays to divide the cable tray system into 4 directions on the same plane.



Downward contraction

Downward contraction is used to move the cable tray system perpendicular to the original plane in the downward direction.



Reducing connection

Reducing connection is used for trough systems that want to reduce width (W) or just reduce width and height (W, H)



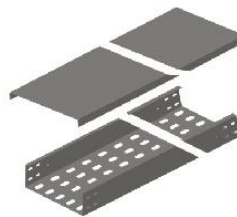
Connect up

Connect up is to move the cable tray system perpendicular to the original plane in the upward direction.



Cable tray connection

Used to connect cable trays.



Cable tray

Perforated cable tray (also known as cable tray) is a guide for installing wires and cables in factories, apartments, buildings...

2.3 CABLE LADDER

Cable ladder (also known as electric ladder, cable tray ladder or cable ladder) is a guide ladder used for the installation of wires and cables in factories, apartments, buildings...

Cable ladder system is used to install and protect power distribution cables or communication signal cables.

Cable ladder system applies to cable management in commercial and industrial construction. They are particularly useful in the event of a change in wiring, as new cables can be installed by placing them in a cable ladder rather than through a pipe.

Materials commonly used to make cable ladders include: Powder coated steel, galvanized steel sheet, hot-dip galvanized steel, stainless steel (Inox) or aluminum alloy.

Cable ladder size:

-Common width: 100-1000mm

-Common height: 50-200mm

-Common length: 2440mm, 2500mm or 3000mm

-Common material thickness: 1.0mm, 1.2mm, 1.5mm, 2.0mm and 2.5mm

-Popular colors: White, cream, grey, orange or the color of the material.





VietPhat

ACCESSORIES CABLE LADDERS

Connect the letter L



Cable ladder horizontal contraction (Co L) is used to redirect the ladder system in a perpendicular direction on the same plane.

Crossing 4



Crossroads are used to divide the cable ladder system into 4 directions on the same plane.

Reducing connection



Reducing connection is used for trough systems that want to reduce width (W) or just reduce width and height (W, H)

Cable ladders



Cable ladder (also known as electric ladder, cable tray ladder or cable ladder) is a guide ladder used for the installation of wires and cables in factories, apartments, buildings...

Connecting fork 3



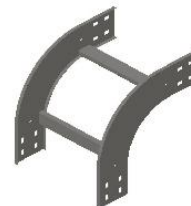
Cable ladders are used to divide the ladder system into three directions on the same plane.

Contraction in



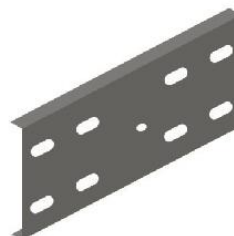
Cable ladder contraction (or Co Bel, Co Trong) is used to redirect the cable ladder system perpendicular to the original plane in the upward direction.

Outer contraction



Cable ladder contraction (or Abdominal, External contraction) is used to redirect the cable ladder system perpendicular to the original plane in the downward direction.

Cable ladder connection



Used to connect cable ladders.

2.4 WIND TUBE

Wind tube are used in factory ventilation duct systems and central air conditioning ducts.

Usage features:







- Used as supply air door, return air door.
- Suitable for installation for all types of plaster ceilings and false ceilings.
- Separate frame and core, easy to disassemble and maintain.
- Depending on the installation location, choose the type of blowing 1, 2, 3 or 4 directions.
- Can be square or round.

Material color:

- The frame is made from profiled aluminum with stiffeners and corners to create a right angle for the entire door.
- Wings are made from aluminum profiles, on the wings there are support ribs to increase stiff-



SQUARE TUBE ACCESSORIES

Square cone	Z Cone	90 degree square
		
Branching square pangolin	Wind Cone	Square and round cone
		



Currently, high-rise buildings, factories, factories, etc. are springing up more and more and the installation of ductwork seems to be a must. The ventilation duct system ensures the circulation and circulation of air in a fixed space to provide a source of high quality air for the living environment in that space.

For enclosed spaces where air circulation is a bit more difficult, installing this system helps to exchange air. Cleaning the air is the next use of the duct system combined with industrial ventilation fans from the louvers, avoiding stuffiness, increasing the risk of respiratory diseases.

-----How to install the air duct system?






The ventilation duct system is divided into two main types: including natural ventilation system and mechanical ventilation system.

With a natural ventilation system, users can build and design their own through devices mounted on the roof or through doorways such as fans, openings.

For mechanical ventilation systems, this is a specialized equipment that usually requires installation by qualified refrigeration mechanics. This mechanical ventilation system will actively draw in air from the outside and push the old air out into the environment.

Depending on the conditions of each person as well as the space to install the factory ventilation duct, people can install the system on the ceiling, roof or basement ventilation system, production plants, petrochemical refineries ..

GLOBAL TUBE ACCESSORIES

Round cone	Round 90 degree elbow	Branching cone
		
Branching round pangolin	4 crossroads	Fork 3
		

Viet Phat specializes in designing and manufacturing iron products: Iron Cabinets, Wardrobes, File Cabinets, Office Cabinets, Document Cabinets, Personal Storage Cabinets in supermarkets, schools, offices. high quality, beautiful colors, many new designs and made according to customer requirements.

Viet Phat is a manufacturer and trader of high-grade iron furniture for offices. Applying high technology, advanced machinery and equipment and a staff of many years of experience. The company always creates many new models, new designs, latest and most different products to affirm the brand of Viet Phat growing stronger and reaching further. We are pleased to serve our customers anytime, anywhere.

Groups

- 01 GROUP OF DOCUMENTS
- 02 GROUP OF MULTIPLE COMPONENTS
- 03 GROUP OF GLASS AND FLAME
- 04 GROUP OF CLOTHERS
- 05 GROUP OF SHOCKERS, DRAWERS
- 06 GROUP OF LIBRARY BOOK SHELF
- 07 ELECTRONIC LOCKED MINI SAFE



3.1 GROUP OF DOCUMENTS

(Contact us directly for specific model information)



Features

Powder coated iron cabinet, gray color. The cabinet has 1 block with 2 compartments, each compartment has 3 movable waves, 2 open iron doors, 2 door handles, 2 separate locks.

Size

H	W	D
1830	1000	450
1830	1000	500

Features

Powder coated iron cabinet, gray color, has 1 block of 4 compartments, each compartment has 1 mobile batch. The cabinet has 4 open iron doors, 4 door handles, 4 separate locks.

Size

H	W	D
1830	1000	450
1830	1000	500



TS04A

Features

Powder coated iron cabinet, gray color, has 1 block of 6 compartments. The cabinet has 6 open iron doors, 6 separate locks, 6 plastic handles.

Size

H	W	D
1830	915	450
1830	1000	450



TS06A

3.2 GROUP OF MULTIPLE COMPONENTS

(Contact us directly for specific model information)

TS08B



Features

Powder coated iron cabinet, gray color, has 1 block of 8 compartments. The cabinet has 8 open iron doors, 8 plastic handles, 8 separate locks.

Size

H	W	D
1830	765	450

Features

Powder coated iron cabinet, gray color, has 1 block of 9 compartments, 9 open iron doors, 9 separate locks, 9 plastic handles, with additional keychains.

Size

H	W	D
1830	1000	450

TS12B



Features

Powder coated iron cabinet, gray color, has 1 block of 9 compartments, 9 open iron doors, 9 separate locks, 9 plastic handles, with additional keychains.

Size

H	W	D
1830	1000	450

TS09B



Features

Powder coated iron cabinet, gray color, has 1 block of 9 compartments, 9 open iron doors, 9 separate locks, 9 plastic handles, with additional keychains.

Size

H	W	D
1830	1000	450



Features

Powder coated iron cabinet, gray color, has 1 block of 12 compartments, each compartment has 1 fixed batch, has 12 open iron doors, 12 separate locks, 12 plastic handles and 12 external keychains.

Size

H	W	D
1830	1000	450

Features

Powder coated iron cabinet, gray color, has 1 block of 18 compartments. The cabinet has 18 open iron doors, 18 separate locks, 18 plastic handles and extra external keychains.

Size

H	W	D
1830	1000	450



TS18B



TS18C

Features

Powder coated iron cabinet, gray color, has 1 block of 18 compartments, each compartment has 1 fixed batch, has 18 open iron doors, 18 separate locks, 18 plastic handles and 18 external keychains.

Size

H	W	D
1830	1000	450

3.3 GROUP OF GLASS AND FLAME

(Contact us directly for specific model information)

TS01K



Features

Low iron cabinet with powder coating, gray color, has 1 block consisting of 2 movables, 2 sliding glass doors with wheels on the roof and guided by the bottom groove, 2 plastic handles and 1 lock.

Size

H	W	D
915	900	450

Features

Low iron cabinet with powder coating, gray color, has 1 block including 2 movable waves, 2 sliding iron wings that can be wheeled on the roof and guided by the bottom groove, 2 plastic handles and 1 lock.

Size

H	W	D
915	900	450

TS01L



Features

Powder coated iron cabinet, gray color, has 1 block including 1 compartment, 3 movable waves, 2 sliding glass doors with wheels on the roof and guided by the bottom groove, 2 plastic handles and 1 lock.

Size

H	W	D
1830	915	450

TS02K



Features

Powder coated iron cabinet, gray color, has 1 block including 1 compartment, 3 movable waves, 2 sliding glass doors with wheels on the roof and guided by the bottom groove, 2 plastic handles and 1 lock.

Size

H	W	D
1830	915	450



TS02L



Features

Powder coated iron cabinet, gray color, has 1 block including 1 compartment, 3 movable waves, 2 sliding iron wings that are wheeled on the roof and guided by the bottom groove, 2 plastic handles and 1 lock.

Size

H	W	D
1830	915	450

Features

Powder coated iron cabinet, gray color:
 - The upper part: has 2 opening glass frames, 2 mobile waves, 2 plated iron handles, 1 lock.
 - The middle part: 2 open iron wings, 2 separate locks, 2 plated round iron handles.

Size

H	W	D
1830	1000	450

TS04K



Features

Powder coated iron cabinet, gray color:
 - The upper part: has 2 sliding glass frame wings, moved by 2 wheels hanging on the roof and guided by grooves in the horizontal baffle, 2 movable waves, 1 lock, 2 plastic handles.
 - Lower part: has 2 sliding iron wings, 2 movable waves, 2 plastic handles, 1 separate lock.

Size

H	W	D
1830	1000	450

TS04L



3.4 GROUP OF CLOTHERS

(Contact us directly for specific model information)

TS01Q



Features

Powder coated iron cabinet, gray color, has 1 block including 1 compartment. Inside there is 1 hanger to hang clothes, 2 portable batches. 1 plastic handle, with external keychain.

Size

H	W	D
1830	450	500

Features

Powder coated iron cabinet, gray color, has 1 block including 2 compartments, 2 mobile batches and 1 hanger for clothes. The cabinet has 2 open iron doors, 2 plastic handles, 2 separate locks.

Size

H	W	D
1830	1000	500

TS02Q



Features

Powder coated iron cabinet, gray color, 1 block includes 3 compartments, 1 compartment has 1 hanger and 1 fixed batch. The cabinet has 3 open iron doors, each with a separate lock, a plastic handle and an external keychain.

Size

H	W	D
1830	1000	450

TS03Q





VietPhat

TS04Q



Features

Powder coated iron cabinet, gray color, has 4 compartments, each compartment has 1 hanger and 1 fixed batch. The cabinet has 4 open iron doors, 4 separate locks, 4 plastic handles, 1 external keychain.

Size

H	W	D
1830	680	450

Features

Powder coated iron cabinet, gray color has 2 blocks including 6 compartments, each compartment has 1 hanger and 1 fixed batch. The cabinet has 6 open iron doors, 6 separate locks, 1 plastic handle, 1 external keychain.

Size

H	W	D
1830	1000	450

TS06Q



Features

Powder coated iron cabinet, gray color has 1 block including 8 compartments, each compartment has 1 hanger and 1 fixed batch. The cabinet has 8 open iron doors, 8 separate locks, 1 plastic handle, 1 external keychain.

Size

H	W	D
1830	1000	450

TS08Q



3.5 GROUP OF SHOCKERS, DRAWERS

(Contact us directly for specific model information)

TS02N



Features

Powder coated iron cabinet, gray color, has 1 block of 2 drawers sliding on ball rail. Using a locking system, each drawer has a plastic handle.

Size

H	W	D
695	460	600

Features

Powder coated iron cabinet, gray color, has 1 block of 3 drawers sliding on ball rail, using staging lock. Each drawer compartment has 1 plastic handle

Size

H	W	D
990	460	600

TS03N



Features

Powder coated iron cabinet, gray color has 1 block of 4 drawers sliding on ball rail, using staging lock. Each drawer compartment has 1 plastic handle.

Size

H	W	D
1286	460	600

TS04N





TS02S



Features

Powder coated iron cabinet, gray color. The cabinet has 2 compartments, 2 open iron doors, 2 mobile batches, 2 locks, 2 plastic handles.

Size

H	W	D
915	915	450

Features

Powder coated iron cabinet, gray color, has 1 block including 2 compartments. Each compartment has 1 mobile wave. The cabinet has 4 iron doors, 2 plastic handles, 2 locks.

Size

H	W	D
1830	1000	500
1830	915	450

TS04T



Features

Powder coated iron cabinet, gray color, has 1 block including 2 compartments. 1 compartment has 1 open iron door, 1 lock, 1 plastic handle, 1 portable batch. 1 compartment has 1 sliding drawer on plastic wheels, using staging lock, 4 plastic handles.

Size

H	W	D
915	915	450

TS05N



3.6 GROUP OF LIBRARY BOOK

(Contact us directly for specific model information)

GS05A



Features

5-storey iron rack, U-column, open return with 2 bars, movable phase, each load 30kg.

Size

H	W	D
2000	1000	400

Features

Iron rack with 5 floors, V-pillar, open return, movable phase, each batch can bear a load of 30kg.

Size

H	W	D
2000	1000	400

GS05B



Features

Multi-purpose iron rack with 5 floors, using 2 sides, open return, fixed batch, each batch can bear a load of 30kg.

Size

H	W	D
2000	1000	450

GS05C





VietPhat

GS05E



Features

Iron rack with 5 floors, using 2 sides, closed return, movable batch, each batch can bear a load of 40kg.

Size

H	W	D
2000	1000	450

Features

Library rack with 4 floors, 8 compartments, open back and back, with barrier capsule, fixed batch, each load is 40kg.

Size

H	W	D
2000	2000	400

GTV10B



Features

Iron rack with 5 floors, 10 compartments, using 2 open gables with 2 railings, movable. Each batch can bear a load of 30kg.

Size

H	W	D
2000	2000	400

GS10A



3.7 ELECTRONIC LOCKED MINI SAFE

Viet Phat mini safe

- Powder coating with electronic protection lock and 2 mechanical locks
- Dimensions of the safe high x width x depth (mm): 220x420x410
- Weight (kg): 16



HOW TO CLOSE ELECTRONIC LOCKERS

- Step 1: Insert 4 AA batteries into the lock box inside the safe
- Step 2: Enter your lockout code (4 digits)
- Step 3: Press the "#" key again
- Step 4: Close the wings.

NOTE:

- . The initial safe closing code is not preset at the factory, the user sets the 4-digit code by himself.
- . When opening/closing the lock, if the wrong code is entered, the " * " key can be used to delete the wrong character entered.
- . If you don't want others to see the code displayed on the screen, do the following: Text " * ", then enter the code, the lock will automatically open/close.
- . When you forget the code or lock the battery, you can use the spare key to open the safe.
- . When entering the wrong code, the screen displays "E-code", more than 3 times wrong, the screen will display "Hold-5", wait 5 minutes for you to enter the code.



HOW TO OPEN ELECTRONIC SECURITIES WHEN FORGET THE CODE YOU NEED TO

- . When using an electronic safe, it is possible that in many situations you will forget the password you have set. Pay attention to save the password in case you forget the code and leave the mechanical key outside the safe and in a secure location, to avoid the bad guys taking advantage.
- . Avoid letting the password coincide with the date of birth, year of birth, phone number or house number because it is easy to find out those numbers, which can be taken advantage of and stolen by bad guys.
- . Each electronic safe has a mechanical key attached, when you forget the code, you use the mechanical key to open the safe.



The biggest advantage of the mini safe is its compact size, small weight, easy to move when needed, low price of mini safe, affordable for users, suitable for offices or families with large area. Small, narrow space, does not take up the user's space and can store cabinets, drawers, table legs, cars...



HOW TO OPEN ELECTRONIC SECURITIES WHEN OUT BATTERY

- . The electronic safe has a battery box inside the safe. The way you handle this situation, 1 is to use a mechanical key.
- . After opening the safe, you should also prepare the battery to replace, be careful not to leave the mechanical key inside the safe, they are useful in many situations where the code is forgotten or the battery runs out.
- . Pay attention to the battery life of the safe to actively replace it. Usually, the battery of an electronic safe will last for 10 to 12 months.



FIFO và FILO

Kho hàng của bạn dùng phương pháp lưu trữ gì?



Số lượng Pallet

Số lượng vị trí pallet mà bạn mong muốn là bao nhiêu?



Bố trí kho hàng

Cách bố trí nhà kho có thuận lợi cho hoạt động của bạn?



Loại kệ chứa hàng

Loại kệ chứa hàng nào phù hợp với không gian và hàng hóa của bạn?

WHY SHOULD YOU CHOOSE THE STORAGE SHELF?

Industrial racking is the leading solution for storing and managing goods in warehouses.



Organized storage of goods

Store by shelves, goods will be better controlled..



Suitable for all goods

Can store goods with many different sizes, loads, shapes.



Make the most of space – increase storage

Based on the warehouse space, the characteristics of the goods will have a reasonable shelf layout. Helps you make the most of your storage space.



Save on warehouse operating costs

Installing storage racks will cost the initial investment. But over time, an efficient warehouse will save you on operating costs.

WHAT FACTORS NEED TO CONSIDER WHEN CHOOSE THE GOODS SHELF?

Key factors to consider when choosing a warehouse racking system:

- * Ability to access pallet locations
- * Ability to use space
- * Number of pallet positions
- * Suitable for the type of forklift used
- * Is the warehouse racking system suitable for goods business needs?

One of the most important factors for choosing the right warehouse racking is direct access to each pallet location. Because this factor directly affects the warehouse's ability to operate, especially for warehouses storing goods with many SKUs, if you choose an unsuitable warehouse racking system to operate, you will have to lose money. more time to export/import goods.

WHAT TYPES OF SHELF VIET PHAT JSC HAS ?

Viet Phat offers a wide selection of Multipurpose Racks with a choice of sizes and accessories available from customer request. The shelves are designed to store goods of the appropriate load, making them ideal for use in the warehouse.



4.1 HEAVY WEIGHT LOADING SHELF



4.2 MEDIUM WEIGHT LOADING SHELF



4.3 LIGHT WEIGHT LOADING SHELF



4.4 MEZZANIME FLOOR



4.5 SPECIAL TYPES OF SHELF



4.6 CAREER STORAGES CABINET

4.1 HEAVY WEIGHT LOADING SHELF - SELECTIVE RACK

Selective rack is the solution is suitable for all types of pallets according to EU, ASIA, JAPAN standards.... Goods according to FIFO or LIFO standards are convenient and quick to control 100%. Selective racking can be used for all types of forklifts (Forklift - Reach Truck), the floor design requirements are not too strict...



Features of the Selective rack

1- Load capacity: 500 - 6000kg/floor.
Depending on your storage needs, you can design storage tiers with different loads:

- * Depending on the storage needs, the load design of different floors.

- * The weight is reduced the higher the floor, the priority is given to heavy goods at the bottom

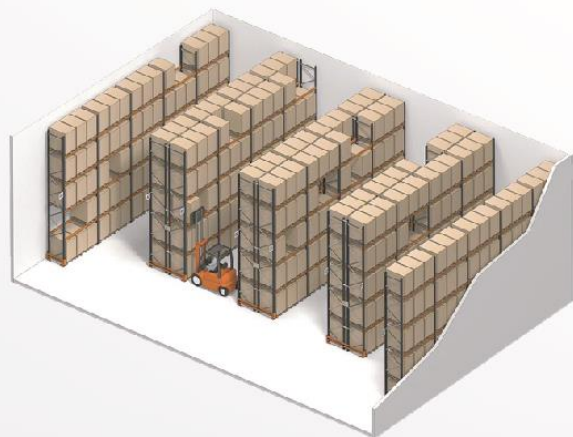
- * Each floor has a floating color warning pad, making it easy for drivers to recognize.

2- Flexible design, easy to store and export - import - control 100% of the simplest goods. Used with manual pallet warehouses, goods can be placed on plywood, tole trays or additional mesh to the system. Combine multiple storage components on one racking system.

3- Use the maximum height of the warehouse, reaching 30% of the warehouse area.

4- Easily add new textures to support the storage of different products. There are solutions for all types of pallet specifications and loads.

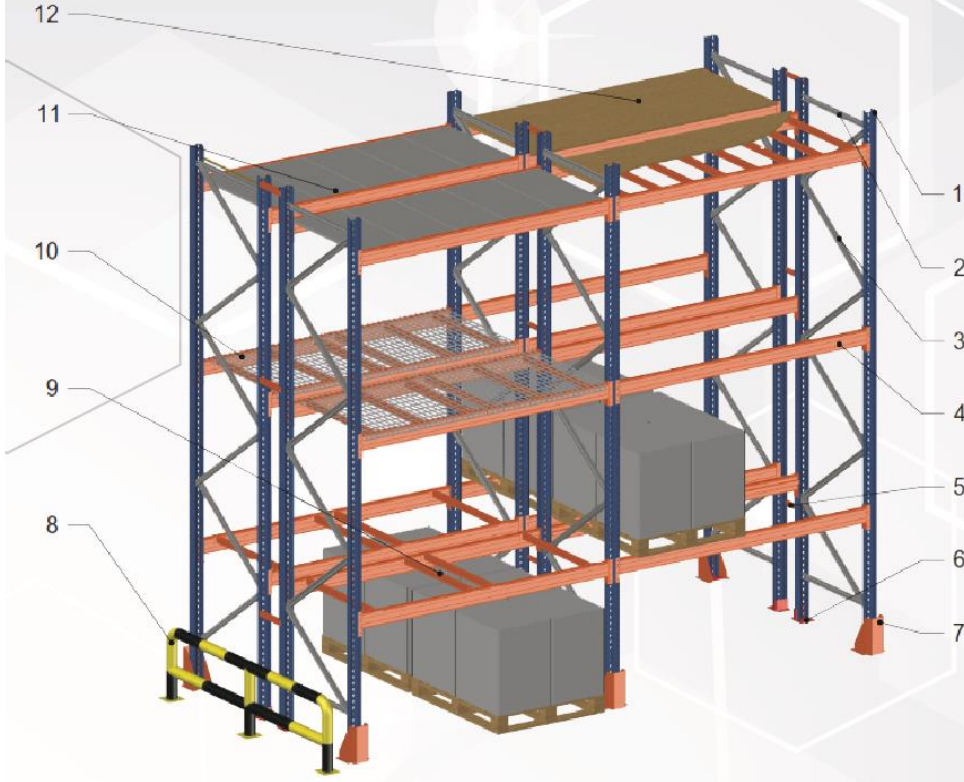
5- Forklift ability to reach goods 100%. Direct access to all pallets in the storage system, all pallets are always ready for dispatch. Fits most forklifts.



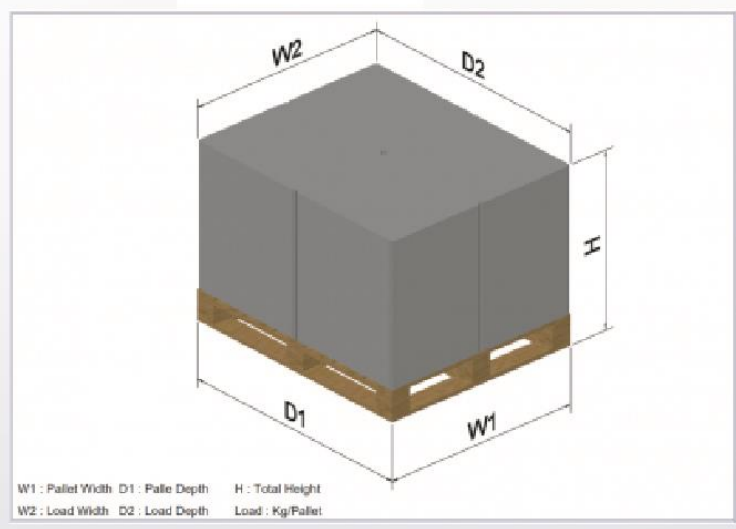
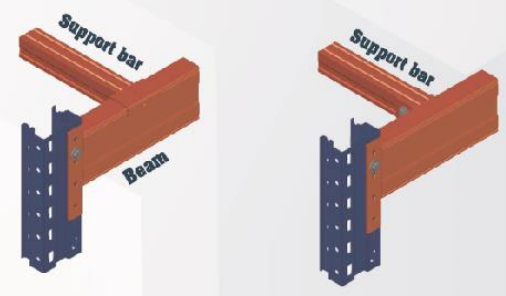


VletPhat

Structure of selective



No	Item
1	Upright
2	Traverses bracing
3	Diagonls bracing
4	Beam bar
5	Connector
6	Foot plate
7	Upright protector
8	Barrier
9	Support bar
10	Wire mesh
11	Steel panel
12	Plywood



The following pallet standards are available:

- **Euro pallets** (According to European standards): W800*D1200mm / 3 pallets / level. Maximum use of the height of the warehouse, up to 30% of the warehouse area.
- **Pallet Asia** (According to Asian standards): W1200x D1000, or W1000*1200/2 pallets/ level.
- **Japan Pallets** (According to Japanese standards): 1100x1100 mm/2 pallets/level
- **And other sizes according to customer requirements.**

4.1 HEAVY WEIGHT LOADING SHELF - VNA RACK

VNA rack (very narrow aisle)– The warehouse racking system is designed with narrow aisles to save space for goods storage, making the most of optimal use to help businesses store more goods. Usually this type of rack rack to rack according to the standards are:

- Rack to rack: 1750mm using models made in Japan
- Rack to rack: 2000mm using European-made vehicles

Shelves up to 17,000 mm high. Help your warehouse save more than 60% of warehouse storage space compared to using conventional selective racking systems.

Note: Because this type of racking uses special forklifts to import/export goods, the floor is built flat so that forklifts can move easily and conveniently. Pallets used must be standard (max loading center 600mm).

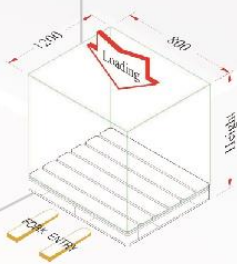


Features of VNA racking system

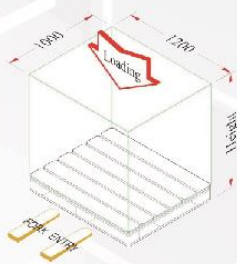
- Shelves are used with specialized forklift equipment (High Rack Stackers)
- Make the most of storage space: Forklift up to 17m, aisle between shelves from 1750mm to 2000mm.
- Reduce the waste of storage space by using height
- Designed to be flexible, goods in pallets can be used first in, first out easily, 100% control of pallets of goods are on shelves.
- VNA storage racks are suitable for large inventory volumes and fixed uniform items.
- The system uses specialized forklift trucks (called tower trucks). Vehicles capable of moving in narrow aisles with high reach.
- In many cases to ensure safety, the forklift's path is designed with guide rails.



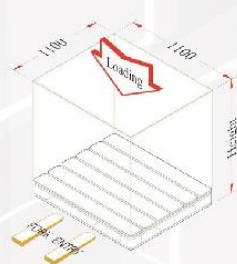
VNA rack (very narrow aisle)– This type of shelf helps you manage and store goods effectively when the accessibility of goods on this shelf is 100%. Each shelf of the VNA shelf is pre-designed with the specified size and load. And there are the following pallet standards that you can refer to and use:



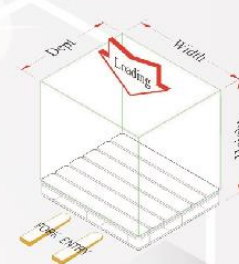
Euro Pallet



Asia Pallet

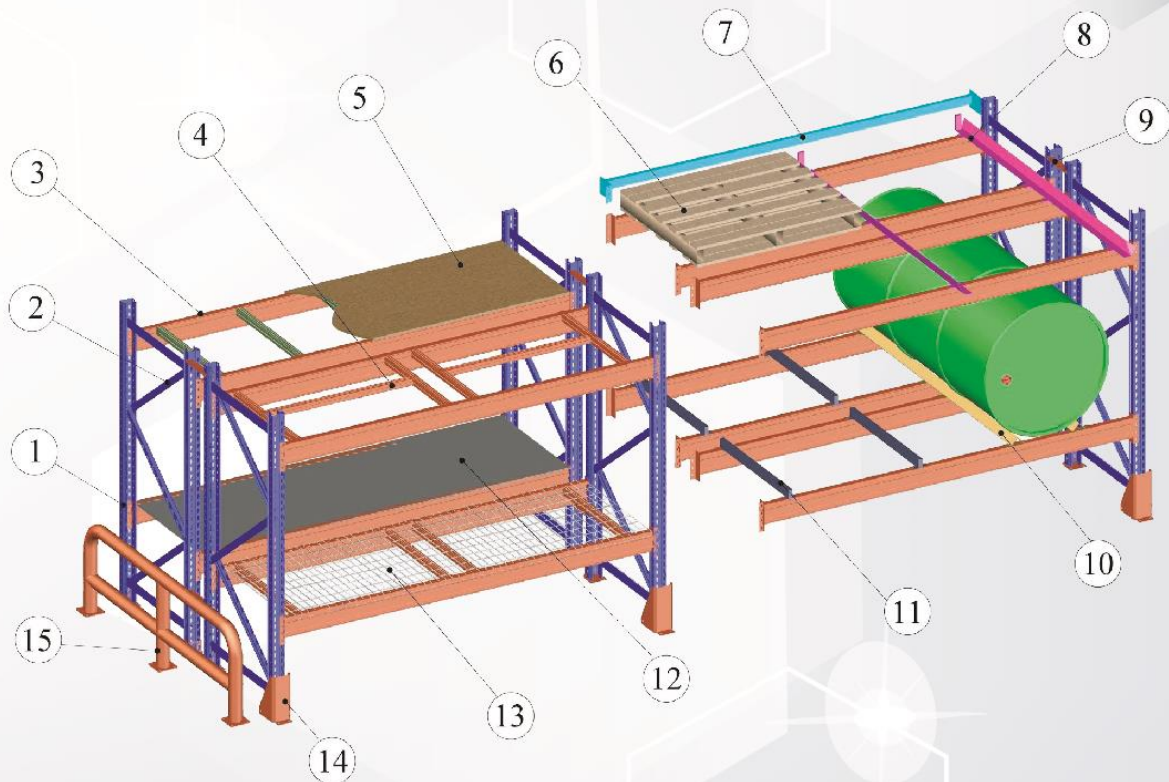


Japan Pallet



Other Pallet

Structure of VNA rack



No	Item	No	Item	No	Item	No	Item
1	Upright	5	Plywood	9	Frame tie	13	Wire mesh
2	Bracing	6	Pallet	10	Support drum	14	Upright protector
3	Beam bar	7	Stop pallet	11	Support no pallet	15	Barrier
4	Support bar	8	Guide rails	12	Steel panel		

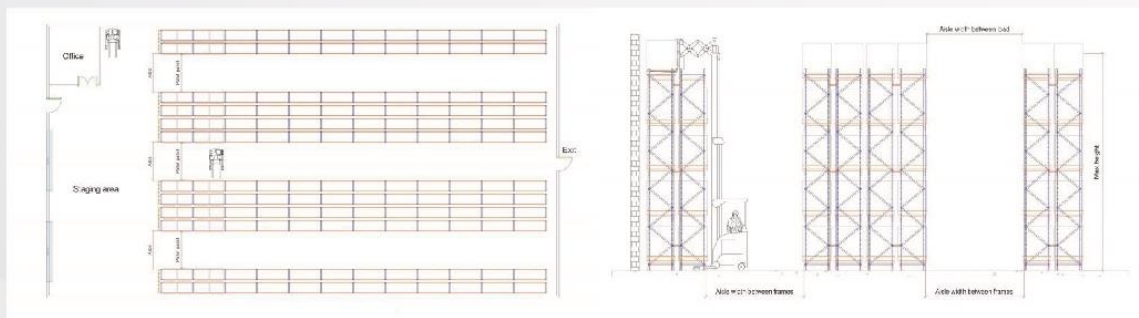
4.1 HEAVY WEIGHT LOADING SHELF - DOUBLE DEEP RACK

Double-deep rack is a special type of shelf created by connecting two rows of selective racks facing each other to increase floor space. This type of racking is capable of storing goods such as: Homogeneous goods - homogeneous pallets: food, consumer goods, storage centers, goods with a large volume. **Double-deep racking not only withstands heavy loads, but also utilizes space more efficiently by reducing aisles in the warehouse.**



Features of Double Deep racking system

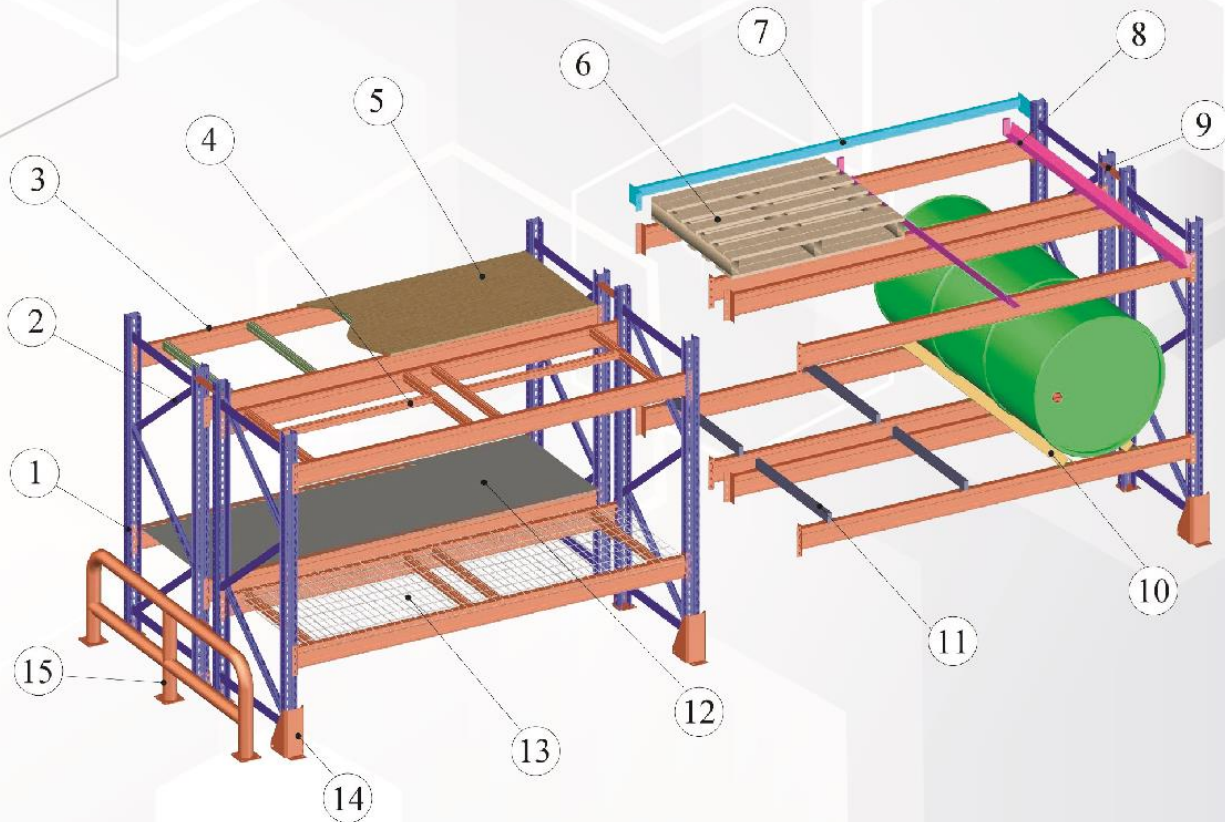
- Storage of goods with heavy loads
- Efficient use of warehouse space, reducing the number of aisles to help you make the most of your warehouse's storage space.
- Easy to use
- Reduced accessibility of goods on each shelf. Pallets last in, first out according to the principle of "Last in – First out" (LIFO). Warehouse staff who want to get the pallet inside must move the pallet in front, so it is necessary to pay attention to the time to use the goods when loading.
- Because the goods are stored deep inside, pay attention to have a dedicated pick-up truck for Double-deep shelves to easily import/export goods in each pallet.
- The capacity of goods in the warehouse is higher than the Selective shelf. The base investment per Double Deep shelf is estimated to be on par with that of the Selective shelf.



Structure of Double-deep



No	Item	No	Item	No	Item
1	Upright	6	Pallet	11	Support no pallet
2	Bracing	7	Stop pallet	12	Steel panel
3	Beam bar	8	Guide rails	13	Wire mesh
4	Support bar	9	Frame tie	14	Upright protector
5	Plywood	10	Support drum	15	Barrier



In addition to Double-deep racking, there are different types of warehouse racking designs:

- VNA shelf (Very narrow aisle rack)
- Selective rack (Selective rack)
- Drive-in rack (Drive-in rack)
- Medium rack (Medium rack)
- Mezzanine floor
- Flow rack (Flow rack)
- Accessories (pallets, nets, barriers, ..)

Each different goods will have a different design so that the beam, upright, pallet, .. sizes are the most optimal and suitable for the storage space. We **Viet Phat JSC** always have a professional design and construction team to ensure you the most specialized and optimal warehouse solution.

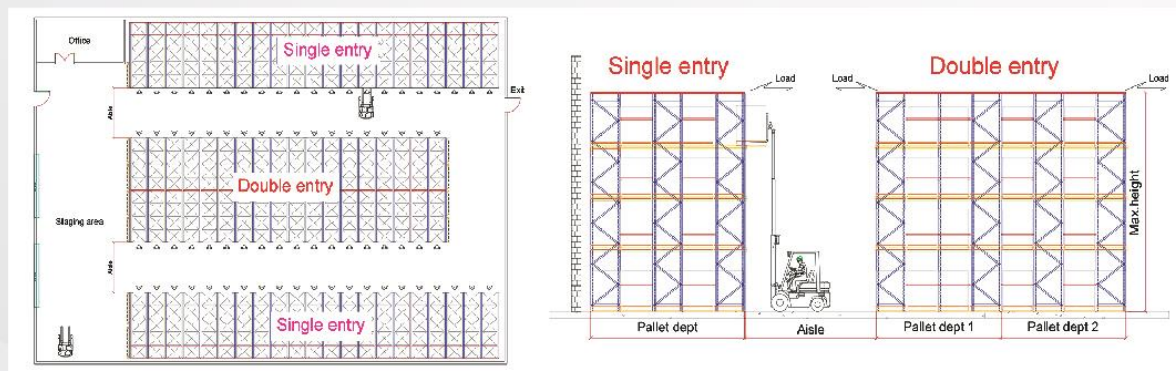
4.1 HEAVY WEIGHT LOADING SHELF - DRIVE-IN RACK

Drive-in rack Allows the forklift to move between the shelves to the pallet position. Is a type of rack with a support frame consisting of 2 protruding bars to support the pallets, when using a shelf that is only suitable for the same goods, the standard pallet is stored in high density. Drive-in racking systems help provide maximum storage capacity by taking advantage of warehouse space by eliminating aisles in between shelves.

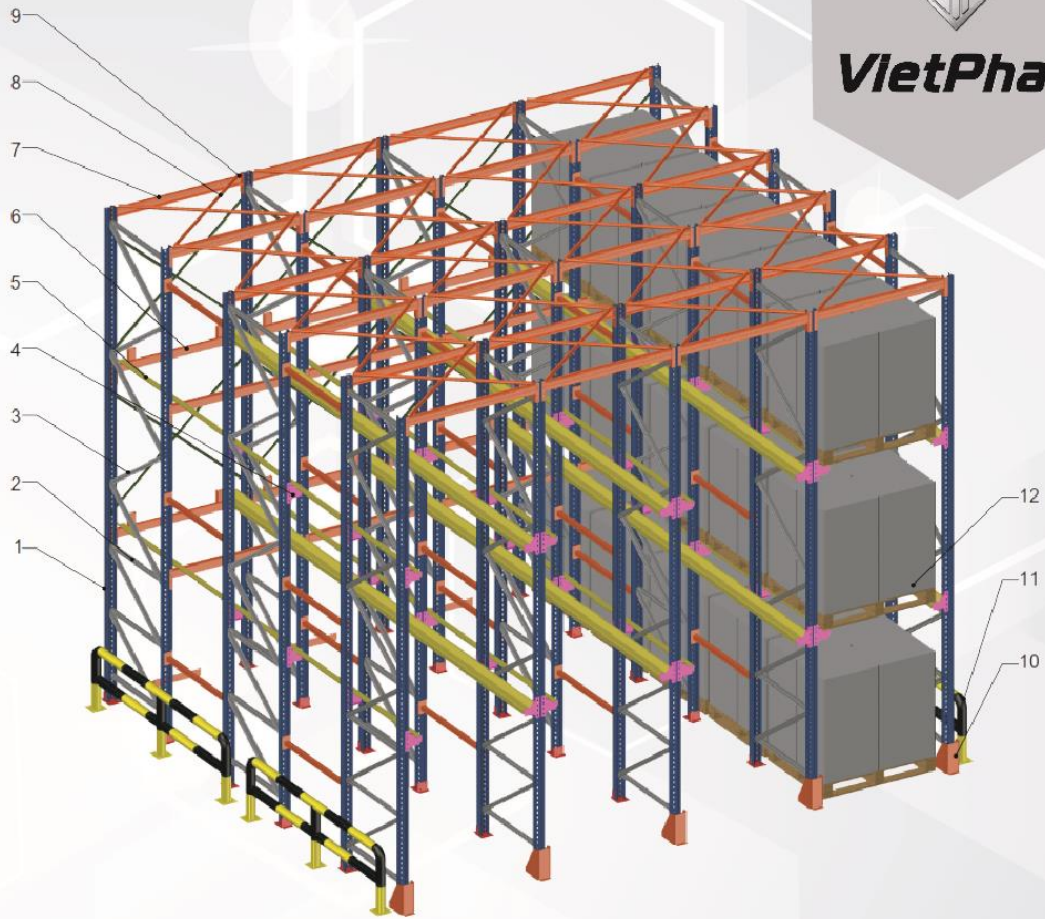


Features of Drive-in racking system

- Free use of warehouse height. Drive In racking cuts aisles, taking advantage of more than 70% of warehouse space. Common applications of warehouses: Cold storage, food, beverage, distribution, production... warehouses with long shelf life.
- Rack to store large batches of homogeneous goods. A single type of pallet when using this type of shelf.
- There is only one way of loading and unloading goods is to enter first, export later, import from the ground up, and take from the top.
- Where relocation is required, parts are easily disassembled, packaged and assembled.
- Forklifts directly put the intervention fork deep into the shelf for precise access. Reduce loading and unloading times on aisles.

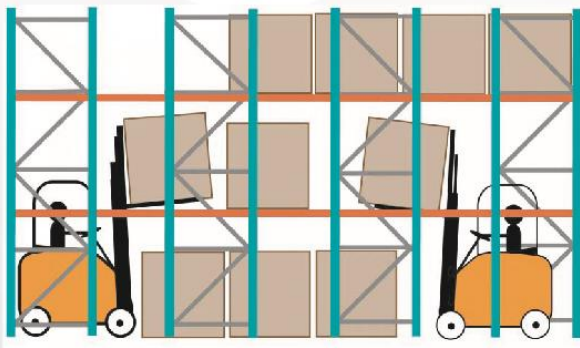


Structure of Drive-in

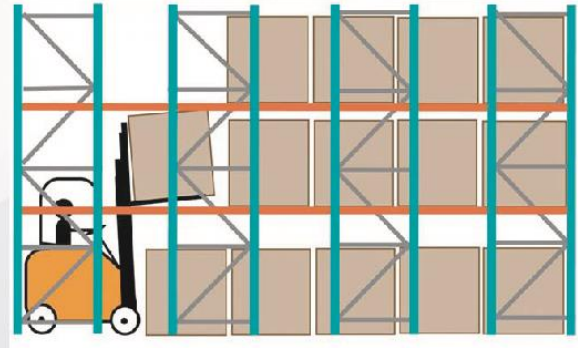


No	Item	No	Item	No	Item
1	Upright	5	Guide Rail	9	Tie Rod
2	Traverses Bracing	6	Beam Bar	10	Upright protector
3	Diagonals Bracing	7	Top Beam	11	Barrier
4	Support Arm	8	Top Bracing	12	Pallet goods

Drive in FIFO (First in/First out) racking model



Drive in LIFO (last in / First put) racking model



4.2 MEDIUM WEIGHT LOADING SHELF

Medium weight loading shelf is a miniature model of the Selective shelf, which is a type of shelf used to store goods with medium tonnage (from 200 to 5000 kg/floor). This is a type of shelf that can be designed according to the needs of customers, in addition, because it is designed with bolts, it is easy to move or change the distance between floors to accommodate other goods. together.

** MEDIUM WEIGHT LOADING SHELF WITH WOODEN **



- Made in Vietnam
- Standard: USA
- Warranty 12 months
- Dimensions: D 1940mm x R 600mm x C 2000mm
- Applications: Storage shelves in warehouses, Display shelves (powder coated according to ASTM - US standards, resistant to outside weather, humidity) ...
- Color: Gray



**** MEDIUM WEIGHT LOADING SHELF WITH TOLE ****



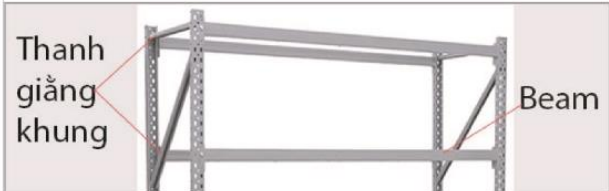
Chân trụ

Beam gắn với chân trụ bằng ngàm, cố định với bulong, ốc vít.



Thanh giằng khung

Beam



Bảng tole

Mạ kẽm, một tầng gồm 6 bảng nhỏ



**** MEDIUM WEIGHT LOADING SHELF WITH MESH ****



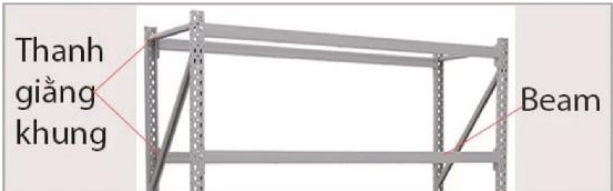
Chân trụ

Beam gắn với chân trụ bằng ngàm, cố định với bulong, ốc vít.



Thanh giằng khung

Beam



Bảng lưới

Sơn tĩnh điện theo tiêu chuẩn ASTM



4.3 LIGHT WEIGHT LOADING SHELF

V steel shelf 100-300kg very diverse in features, widely used in many different goods storage purposes. This type of storage shelf is easy to install in places with limited space.



V steel shelf includes basic details:

- ▶ **Load-bearing column:** Bearing the force of the whole system
- ▶ **Support bar:** Tole plate bearing
- ▶ **Tole tray:** Carrying goods
Normally use types V3x5, V4x4, V4x6, V 3x3, V1x2, V1x3, V3x8 with thickness from 1.5ly to 2.3mm. Powder coated corrugated iron or industrial board has the commonly used sizes: 300mm /400mm / 500mm /600mm, corresponding to the length of 800mm/1000mm/1200mm/1500mm.

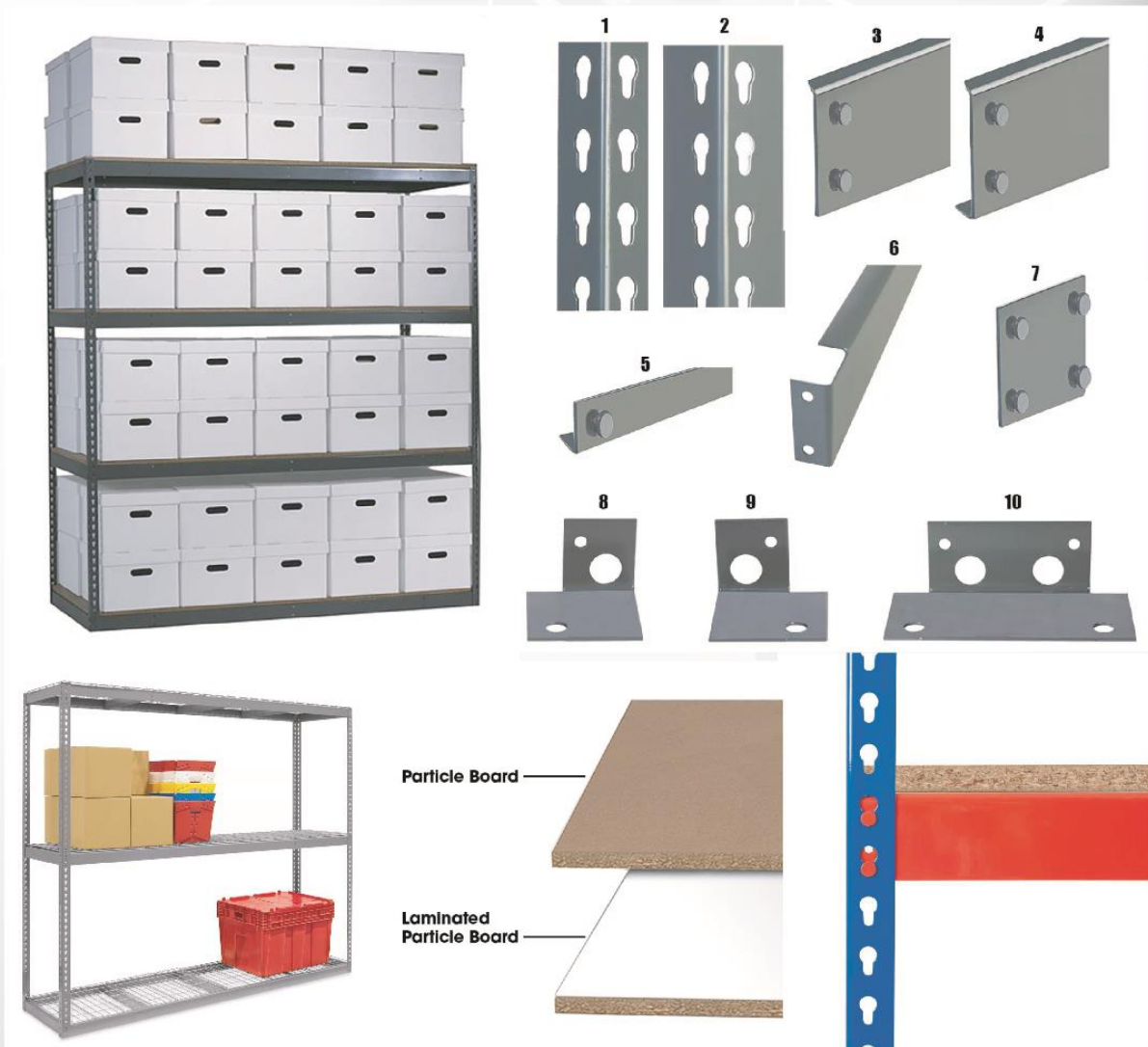
- **Load capacity:** 100 - 300 Kg/ 1 floor.
- Goods loading and unloading by hand, or mobile ladder truck.
- Store shelves are made from plywood or tole trays.
- Perforated V steel design shelf.
- Entire steel frame linked to mount or Bullong easy to disassemble.
- All shelves are powder coated according to European standards.





Features of V steel shelf:

- Steel (iron) v-hole shelves are used in all fields, from storing goods in warehouses and large factories, to displaying or storing products in supermarkets or grocery stores. .
- Material entirely from Steel, providing certainty and durability over time.
- Large, neat storage density.
- Storage of diverse goods.
- Easy to disassemble, transport or change the shelf structure.
- Simple design combined with electrostatic paint color creates a pleasant look and aesthetic beauty for the warehouse.
- 100% accessibility to goods, good inventory management.
- Low investment cost.
- Diverse use in all industries, with the need to store light goods, diverse sizes.



4.3 LIGHT WEIGHT LOADING SHELF - SUPERMARKET SHELF

Supermarket shelf is a type of shelf assembled from many different large and small parts. Every detail plays an important role in forming a unified shelf. Shelves are the most important part of any supermarket business model from small to large. This is a product with a variety of designs, types, quality and prices. And there is not a supermarket that does not use this useful shelf. There are many types of shelves such as vertical shelves, horizontal shelves, rotating shelves, round shelves, wall shelves, ... with all sizes of small - medium - large, depending on the premises and the arrangement of goods of the supermarket.



The product is a smart and necessary investment choice for supermarkets because:

- **Ensure aesthetics:** A space is arranged neatly and neatly to create comfort for customers. That is the advantage of shelves in ensuring the aesthetics of the supermarket.
- **Convenient for finding goods:** The investment in shelves allows customers to easily find the items they need in a large space. Moreover, the goods placed on the supermarket shelves are also clearly displayed so that the seller and the buyer can both update and properly manage the actual situation.
- **Increase customer interest:** The art of arranging goods in the supermarket has a certain influence on the purchasing power of consumers. According to the perception of buyers, they will want to buy more than they originally intended if they see related items in the supermarket.

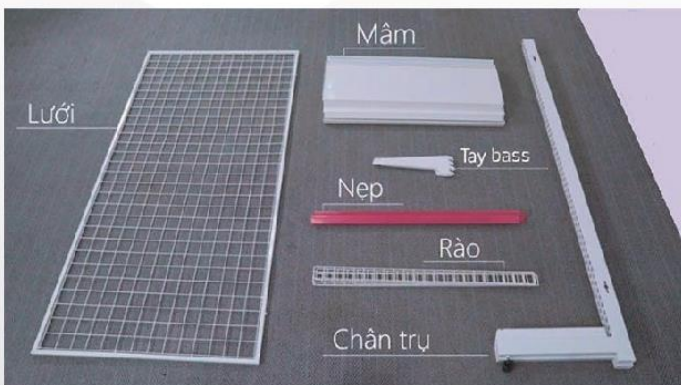




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Product display shelf features:

Each item is suitable for display on a separate shelf. On the market today, there are 3 main types of supermarket shelves: mesh back shelves, seamless corrugated iron shelves and perforated corrugated iron shelves. The characteristics of each type of shelf will be suitable for different types of items.



- * The main material is steel, powder coated to prevent rust.
- * Link by joints, simple and quick assembly.
- * The product will have a long service life if used correctly.
- * Load of shelves: 50 - 100 Kg / 1 floor.
- * Supplied according to standard samples, or manufactured to order.
- * Height of shelves from 1200 - 3000 mm, or more can also be higher.

4.4 MEZZANIME FLOOR

Mezzanine floor built mainly in industrial warehouses, often used by corporate enterprises to take advantage of the vertically integrated storage space with the office to store medium-load goods. Depending on your requirements in terms of load and design, each mezzanine floor shelf system will have separate dimensions.



- Load capacity: 500 - 1000 Kg per square meter.
- Leg frame: Use hole punch or box omega pin.
- Floor surface: Use boards, corrugated iron, corrugated iron.
- The floor shelf is designed according to the bolt assembly method, which is easy to move when needed.
- The whole system is powder coated according to European standards.
- Industrial floor shelves are a combination of storage shelves and floors, which can increase the usable area many times.
- Inheriting all the advantages of shelves and floors, while reducing the disadvantages of using shelves or floors separately. They have the effect of storing goods, storing goods of large volume and variety of types.



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Features of the mezzanine floor

- In addition to being used to store goods, it also works as a document rooms, houses, entertainment areas, meeting rooms...
- Floor shelf manufactured by high technology: strength of abrasion resistance good, high product thickness, high impact resistance, strong connection lock, waterproof, anti-rust powder coating.
- Industrial floor shelves help to increase the warehouse area many times, can be disassembled, easily moved. The floor can accommodate goods with many different specifications.
- Separation of space, easy for arrangement and warehouse management.
- Combined with vertical elevator system, helping to transport goods up and down easily. Can customize the structure of gates, guard cages, machine month, floor structure.
- Especially suitable for leased spaces with limited expansion and modification.



4.5 SPECIAL TYPES OF SHELF

Cantilever Rack designed to hold long, bulky and unstable goods.

The racking system is not entangled by the front columns, so the loading and unloading of goods is very easy.

This is a very flexible shelf, good for storing products of different lengths on the same shelf. The installation of this type of shelf will be optimal for storing long, heavy and oversized goods such as: sawn timber, steel pipes, carpets, furniture, ...



Cantilever Rack includes basic details:

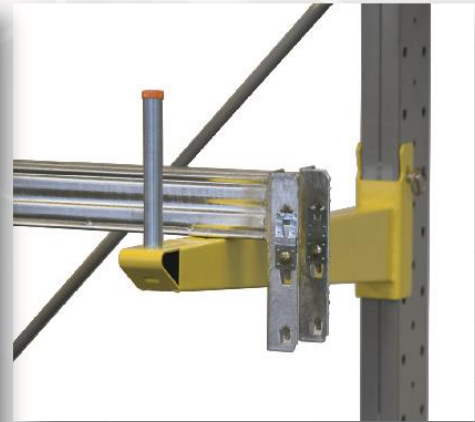
- ▶ **Load-bearing column:** The load-bearing column is attached to the base. Height and load depends on customer needs.
- ▶ **Link beam (horizontal and diagonal):** The beam provides stability to the system. The width and length of these beams are determined by the size of the product being stored, as well as the application for which the system is being designed.
- ▶ **Bearing Arms:** Arm systems come in a variety of designs and capacities. The armrest can be changed on request, can be straight or tilted, to fully meet the storage needs. Arm length of from 600 - 2500 mm.
- ▶ **Shelf base:** The base system presses to the floor and supports the load-bearing column, keeping the shelf upright and not wobbly. The size of the base depends on the size of the arm.



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Features of the Cantilever Rack

- Cantilever storage shelves can add other structures, diversifying storage capacity.
- Additional trays and support bars between the arms can be added for additional storage solutions.
- Customize and disassemble the shelf details easily.



Walkways and forklifts

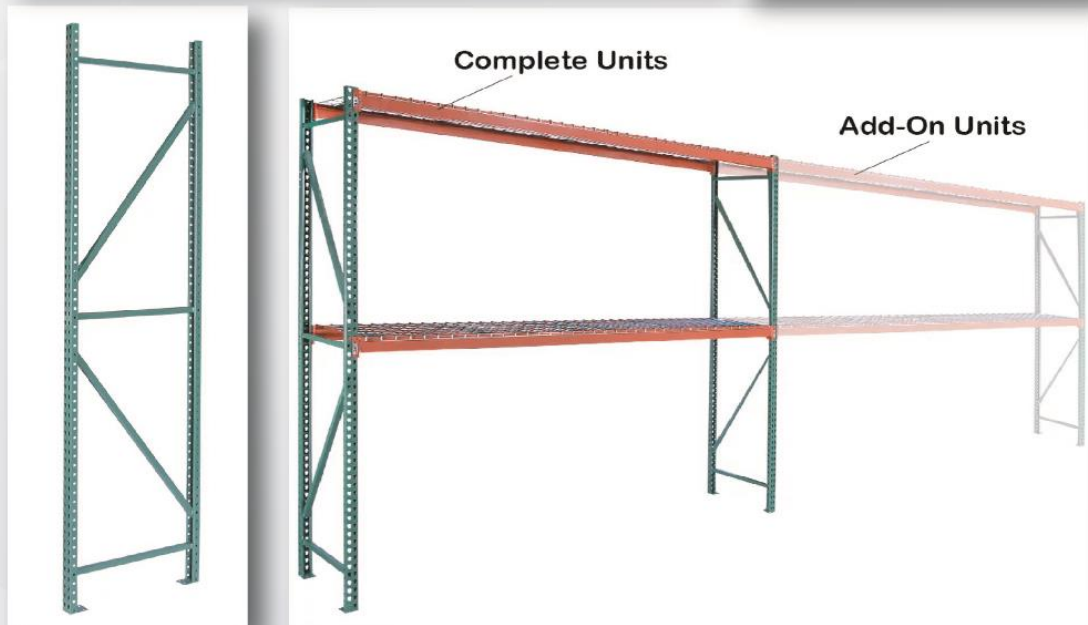
- Without many obstacles, the forklift is easy to move and access into the system.
- 100% accessibility to goods.
- Fewer collision situations, affecting forklifts and storage shelves.
- Easy in loading and unloading and transporting goods in and out of the rack, reducing work processing time.

Advantages:

- Easy shelf placement, saving storage space. Can be placed anywhere according to the length of the row on the rack.
- Easily combined with machinery equipment, tractors when needed. Because the shelf is transparent from top to bottom.
- Low investment cost but offers diverse storage capacity.
- The support system is extremely solid and durable over time.

4.5 SPECIAL TYPES OF SHELF

Tire rack designed to store small, light tires such as motorcycle tires, bicycles, car tires, ... With this type of shelf that can be placed vertically or horizontally, a support bar or a skeleton shelf can be used to accommodate tires smaller than the distance between the two beams. With this type of shelf, a ladder truck can be used to pick up goods at elevated positions.



Some special shelf models:



4.6 CAREER STORAGE CABINET

Accessories storage cabinet



Tool cabinet



Aluminum gas tank cabinet



Steel gas tank cabinet



Flammable drum storage cabinet



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H-1564



H-2218



Thank you !



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