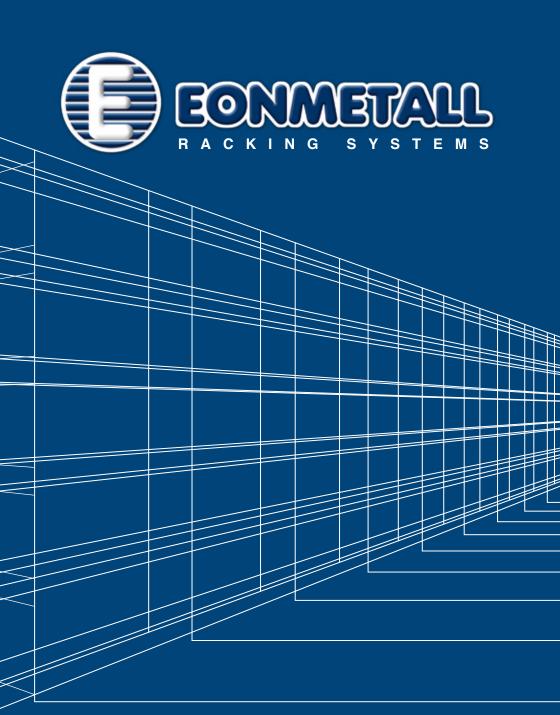
#### www.eonmetall-rack.com

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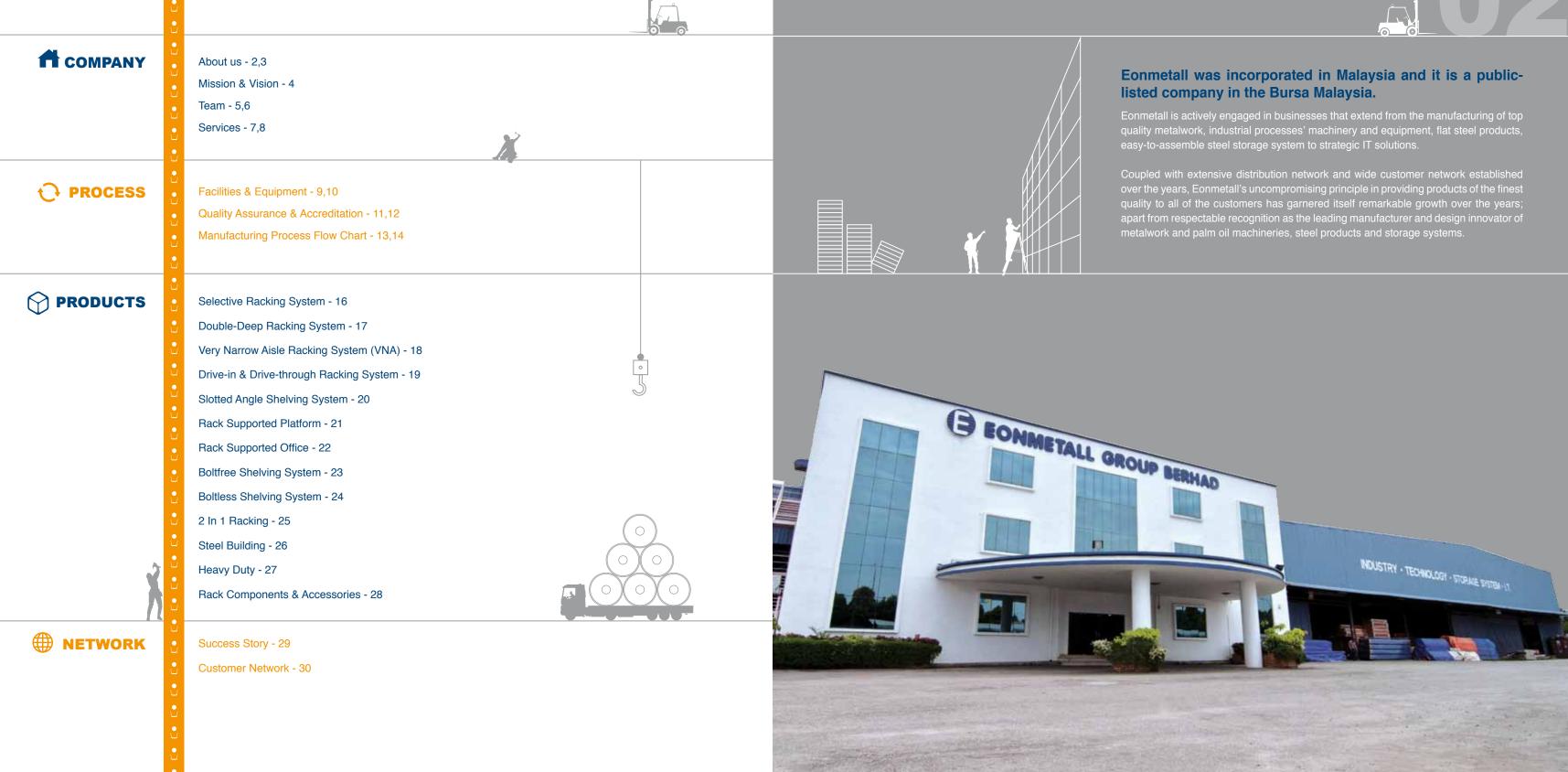






# Content K

## About Us





Offering its customers total solution with advanced design, reliable engineering, topnotch manufacturing and highly effective project management, Eonmetall's products and services reach out to an extensive market around the globe with strong market presence in the regions of Asia, Africa, Europe, North America and Middle-East.

Fully recognizing the value of providing total solution innovatively and creatively, Eonmetall pushes beyond traditional boundaries and works across various disciplines. In view of this, Eonmetall demonstrates relentless efforts in expanding business portfolio in this fast-paced business. These include the venturing effort into the District Cooling System (DCS) projects. This effort marks Eonmetall rapid growth in the GCC regions, in particular Dubai, United Arab Emirates. Apart from that, Eonmetall endorses diversity in business by providing strategic IT solutions and systems to the market.



#### Vision

Eonmetall envisages becoming the top machinery and steel products provider in Malaysia by offering products that are practical, innovative and come with first-class quality coupled with unparalleled customer experience and services.

Eonmetall aspires to maximize the reach of all of its products to virtually every practical application whether it is in heavy industries, commercial or domestic usages, helping all its customers to create maximum reliable storage capacity in limited land area while saving valuable time.

Land is scarce, and Eonmetall wants to provide the best solutions and becomes the ultimate space maker for your storage capacity at the lowest possible land cost!





#### Mission

Eonmetall aims to achieve its visions through persistent research and development activities, tactful marketing and channel distribution strategies, providing highest quality products as well as customer-first services in order to capture market shares, generate new application segment and stimulate exponential growth for the entire company.



# Team yy Es





Eonmetall truly comprehends that understanding of manufacturing needs solely is not sufficient to guarantee competitive edge in this competitive business. Service excellence is achieved through Eonmetall's committed investment in human resources, complete in-house manufacturing and efficient computer systems.

#### The five core teams in Eonmetall include:

#### **Research & Development**

Eonmetall firmly believes that research and development efforts and constant innovations are crucial factors for a company to grow and prosper and, more importantly, to get ahead of the competitors in the industry. The capable R&D team of Eonmetall constantly develops new products and application suites based on findings, facts and principles identified through its extensive research activities. This has enabled Eonmetall to offer comprehensive and innovative solutions to its customers, expanding its current customer base while creating new customer portfolio with all the newly developed products.

#### **Sales & Marketing**

Sales and Marketing is undeniably one of the most important activities in a business because it has a direct effect on profitability. In Eonmetall, apart from promoting the company's rack products, the sales and marketing team is also tasked to manage and develop both existing and new customers. Good rapports and relationship with all the customers are maintained by this proactive team. The team is also responsible for sales collection while adhering to the company's credit control. On the other hand, strategic marketing approaches are implemented in respective regions in order to ensure sustainable sales growth while achieving sales target.

#### **Production**

Equipped with the recognized competency, skills and expertise as well as the stateof-the-art manufacturing technologies, Eonmetall's highly-proficient manufacturing and production team ensures that every product that leaves the plant boasts of the highest quality and commitment with no compromise in quality, making Eonmetall the reliable and successful organization in the market. All processes are thoroughly monitored and inspected to ensure that all the quality standards are fully complied with.

#### Warehouse

Eonmetall owns a well-equipped warehouse facility situated in the state of Penang, Malaysia. The warehouse facilitates the entire logistic, production and delivery processes, making sure that the processes are implemented with zero flops. Products are kept in organized and meticulous order to eliminate any possibilities of errors.

#### Delivery

Eonmetall believes in prompt delivery to deliver the optimized product value to its customers. In view of this, Eonmetall established a seamless distribution networks that collectively ensure on-time delivery to all of its customers. The delivery team competently ensures a robust and structured system that enhances the delivery flow, making sure that all the customers anticipate no delay in acquiring products and services from Eonmetall.

















## Services



#### Research & Development (R & D)

Our skillful and enthusiastic research and development team members continuously design new products and solutions for a multitude of consumers and industries. We aim to resolve our customer's difficulties and inconveniences by providing creative and innovative products that fit exactly into our customer needs and applications.





#### **Our Capabilities**

We have a well-trained team of professionals, complete with a series of equipments to support our customers in projects - from the conception stage, the design, material process to final installation.









#### **QC Loading Test**

A thorough quality control compression test is performed on the products against stringent specification in order to assure the durability of the products.



Facilities Equipment Å







#### Slitting

Slitting is used to cut raw material - a wide coil of steel or metal or the mother coil - into a number of narrower coils called slitted coils.

#### Stamping

In the stamping process, holes are punched according to the mould made to create multiple shaped holes. Punch tooling is made of hardened steel so that the punched holes are as clean as possible.

#### Bending

After stamping, the punched baby coils are sent for bending or forming and cutting. In bending, the metalwork is bent along a straight axis that products V-shape, U-shape or channel shape according to the production requirements for the metalwork.

#### **Mould Making**

Moulds are accurately made in this process to create the required stamping patterns in the next process.

#### Forming & Cut

In forming and cutting, the metalwork is formed and cut to sizes according to the requirements to ultimately form a desired roll-formed profile.

#### **Powder Coating**

Powder coating is a process where thermoplastic or thermoset polymer powder finishes are coated on formed metal pieces to protect the surfaces and give colours to the metals.

#### Welding & Spot Welding

To permanently join the multiple metal parts together into usable products, welding is carried out by melting both adjoining materials. As the molten metal quickly cool, the two adjoining pieces are then permanently bonded. Spot welding is a popular welding method where contacting metal surfaces are joined by the heat obtained from resistance against electric current flow.







#### **Process Control**

Whether it is slitting or powder coating, our manufacturing processes are being monitored systematically and continuously. By overseeing the entire process and evaluating the products based on standard assessment, we are able to supervise the quality of the parts being produced, thus setting a stringent quality control system that sets us apart from our competitors.



# Quality Assurance & Accreditation A \*





#### **Our Quality**

Eonmetall places great emphasis to ensure that every product that leaves the plant carries the highest quality and recognized commitment of Eonmetall towards delivering top quality products to the customers. This is particular crucial in today's competitive and demanding business environment. Eonmetall strives for the best quality governed by high production standards through the deployment of advanced technologies and techniques, coupled with a stringent quality control system as well as Eonmetall's in-depth knowledge and extensive experience in its own manufacturing capabilities.



Eonmetall has obtained the ISO9001:2008 certification that encompasses the quality policy and Eonmetall's commitment towards producing products of highest quality.

UKAS

QUALITY MANAGEMENT





#### **Quality Policy**

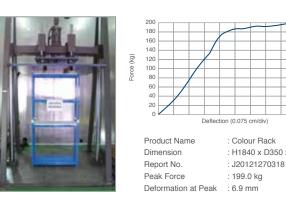
Eonmetall is committed to achieve the company's vision through consistent fulfillment of the expectation and requirements of the valued customers. The quality policies include:

- Customer satisfaction always come first;
- · Constant review of quality management for effectiveness and improvements;
- · Continual improvement to achieve cost effectiveness and to deliver quality products;
- Continual R&D improvements for products and services excellence;
- Compliance to QMS requirements.













: 4.97 mm



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Re Peak Ford Deformation at Peak : 63.0 mm

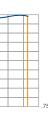
Deformation at Peak





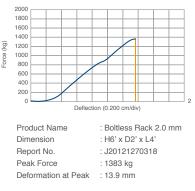




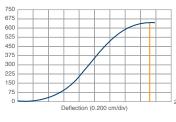


: H1840 x D350 x L900 mm









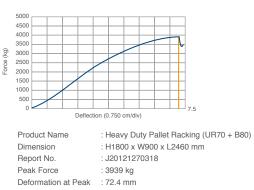
Product Name Dimension Report No Peak Force Deformation at Peak : 17.2 mm

Boltless Back 1.5 mm : H6' x D2' x L4' · J20121270318 : 648.6 ka



: Heavy Duty Pallet Racking (UR90 + B90) : H1800 x W900 x L2700 mn

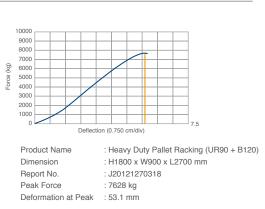






ty Pallet Racking (UR90 + B100) V900 x L2700 0318





# A Manufacturing Process Flow Chart A



#### **Receive PO Confirmation from** Marketing Department

The manufacturing process is kicked off with a confirmed order from the customer.



#### **Project Briefing**

A briefing will be carried out within the research and development department to construct the optimized process flow for the specific order.



#### **Production Coordinated**

Flow of works is properly scheduled and coordinated within or between departments of manufacturing plant to ensure smooth, effective and efficient production cycle.



#### **Production Assignment**

Schedule according to work order specifications and established priorities is reviewed and revised within the availability and capability of workers, raw materials and equipment.

Slitting



Stock Delivery

A robust and structured delivery process is carried out to ensure on-time delivery for all Eonmetall's customers.



**Finished Goods** 

Product manufacturing processes are completed after the powder coating process. The products are now ready to be delivered to the customers.



#### **Auto Powder Coating**

In this process, thermoplastic or thermoset polymer powder finishes are coated on formed metal pieces to protect the surfaces and give colours to the metals.



#### QC Checking

The products then go through comprehensive quality control checks in order to make sure that the products are delivered without any production inconsistencies and imperfections.





#### Installation & QC Checking

Products are installed on requirement basis at customer sites. Final QC checking will be carried out in order to make sure flawless products are delivered to the customers.



#### **Job Complete**

The manufacturing process completes when the jobs are delivered in total satisfaction to the customers.





The raw material, a wide coil called mother coil. is slit into multiple narrower coils called baby coils.



#### Stamping

After slitting, holes are punched according to the mould on the coils in the stamping process.



#### Forming & Cutting To Size / Bending

After stamping, the punched baby coils are sent for bending or forming and cutting processes in order to form the desired patterns.

# OProduct Selective Racking System



Selective Racking System is one of the most popular storage systems from Eonmetall. It provides 100-percent accessibility and ensures smooth, practically obstacles-free and faultless stock rotation. In addition to that, it comes with great flexibility being fully adjustable and easily installed. Equipment and capital investment for this selective racking system is also the most economical and efficient.

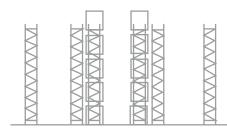
Eonmetall offers a full range of compatible accessories for various pallet types, sizes and weights for the system. Safety or rack protection accessories such as corner guards, column protectors, bollards, frame protectors, back mesh cladding, pallet back stops are available in order to enhance the safety features of the storage system.







Plan View



Side Elevation





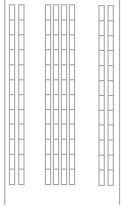
# Double - Deep Racking System



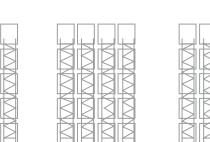


Designed to increase storage capacity, double-deep racking system is capable to store two pallets deep in a single-entry rack or four pallets deep in a double entry rack. This system is particularly beneficial when the throughput is low while fast movement of pallets is not critical. A special reaching truck with double-pantograph or extendable fork is used in this racking system.

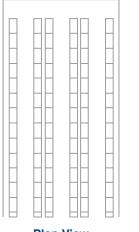




**Plan View** 



**Side Elevation** 



**Plan View** 

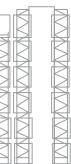
Side Elevation





## Very Narrow Aisle (VNA)

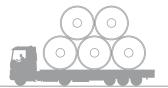




Carefully-designed with no compromise on durability and safety, Eonmetall's Very Narrow Aisle (VNA) racking systems feature aisles that are marginally yet sufficiently wider than the loads, making full use of roof height to create ultimate storage capacity for space-concerned customers. The system maintains the essential 100%-accessibility and outstanding goods protection feature to ensure quick picking rate and flawless stock rotation.



VNA forklift truck equipment that comes with either man-up or man-down cabins that are capable of reaching higher beam levels are used in this exceptionally competent system.



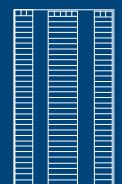


## **Drive In &** Drive Through Racking System

# Slotted Angle Shelving System

Created to offer maximum storage capacity by using up only minimum space, this drive-in drive-through racking system consists of blocks undivided by aisles. This system is designed to efficiently suit the storage of homogeneous products in large quantity. Picking and storage is facilitated by forklift trucks driving right into the racks.

Drive-In Racking: Picking and replenishment are carried out from one side. Drive-Through : Both sides of the racking are used.



**Plan View** 



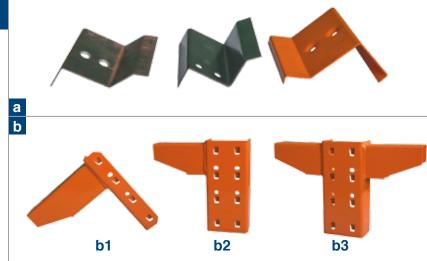
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Side Elevation



#### Component

a. Ramp b1. Arm b2. U arm single side b3. U arm double side



Eonmetall offer slotted angle shelving system in various sizes according to the customers' requirements. The slotted angle shelving systems are exceptionally efficient and economical for commercial, light-duty storage of products and materials that have high flow rate.



**Slotted Angle** 

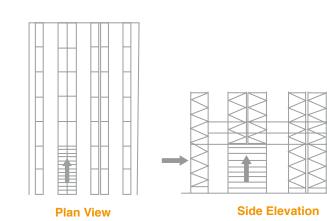




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Storage and picking of small- or medium-sized goods can never be easier and cost-effective with the use of Eonmetall's multi-tier racking system. The system is particularly beneficial when there is sufficient room height. Accessible by staircases and loading gates, the exposed areas of the platform are installed with safety handrails. Shelf levels can either be decked with steel decking panels or plywood. Various types of floor decking materials are available - timber, plain steel plates, chequered steel plates, expanded mesh or mesh grating.



Hassled by limited spaces for your growing business? With Eonmetall rack-supported platform system, you can create office spaces on the foundation of racking systems, often at an unimaginable space you had never thought of. For Eonmetall's rack supported office, a choice of exclusive timber or steel decking is available for your growing business to create more office spaces.

Structural Steel Staircase and Steel Floor Joists for uniform strength.







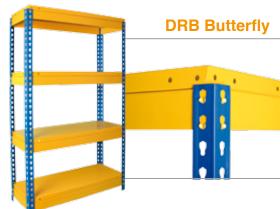


## **Bolt-Free Shelving System**



## **Boltless Shelving System**









Bolt-free shelving systems have remained as one of the Europe's most popular shelving products since the systems were introduced more than 30 years ago. These systems are available in an extensive range of sizes that come with either clad or open configurations. There are also an comprehensive range of colour choices making it ideal whether the customers needs a simple bay of shelving or a complex systems such as two-tier or high-rise order picking solutions.

The flexible bolt-free shelving systems provide an accommodating, modular hand loaded shelving system. Locked together, the bolt-free systems enable quick and easy construction and installation. Various sizes of open and closed configurations produce efficient storage for almost every possible item, ranging from small components to large cartons and boxes. On the other hand, accessories such as the shelf dividers and bin fronts allow handy segregation thus clear identification of various groups of stored items.

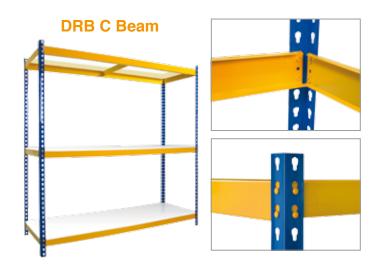
Adding to the excellent functionalities of the systems, the smooth lines and neat finishes provides aesthetic values to the storage system making the systems very much suitable for any types of storage system.

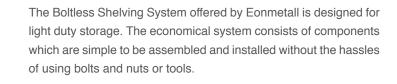
#### Component











### Component

# <complex-block> Bracket / Plate a. L Bracket b. Angle Bracket c. Joint Plate d. Joint Bracket e. Fourhole





## 12 IN 1 Rack



Eonmetall promotes innovations and functionalities in all of the products delivered to its customers. The 2-in-1 Rack series is the illustration of Eonmetall's commitment in delivering the innovations that are coupled with great functionalities to the consumers. This easy-to-install and easy-to-dismantle ensure trouble-free rack usage. Available in 5-level powder-coasted steel shelves, these 2-in-1 racks demonstrates the quick and easy installation of Eonmetall's Boltless concept. Systems with this concept make the shelves straightforward and quick for home and office usage. The versatility of the 2-in-1 rack series ensure itself to be easily constructed to different heights up to 6 feet with all the simple add-on of angle posts. Apart from this, the 2-in-1 rack series is delivered to the consumers in 1-carton boxes which ensure easy transport and handling.

The innovative joint brackets enable the 2-in-1 rack series to be used as a single 5-level shelve or as 2 individual units with 2- and 3-level shelves depending on the consumer's preferences.

- Easy to install and simple to dismantle
- Free adjustment without hassles
- No tools involved
- Suitable for various types of storage





## He<sup>a</sup>vy D<sup>u</sup>ty Pallet Rack



Eonmetall offers heavy-duty steel racking that can take up to 1 ton of weight. This highly durable, stringently tested product is popular for the usage as Mezzanine Floor Planks.



| Model       | Measurement                    |
|-------------|--------------------------------|
| 2 in 1 rack | 1829 x 350 x 900 (mm) - 5 leve |
|             |                                |
|             |                                |



Support Bar Coil Support Bars





Skid Channels

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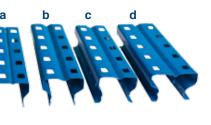
Box Beam B80H x 40W

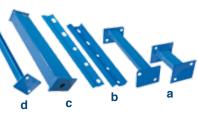


#### Component



Horizontal & Diagonal Bracing







Standard Duty Base Plate

#### Upright

a. UR 70

- b. UR 90 (EM2)
- c. UR 90
- d. UR 115

#### Spacer

- a. Frame Spacer
- b. Splic Spacer Extension
- c. Row Spacer
- d. Stand Off Spacer



Heavy Duty Base Plate



Mezzanine Floor Planks (Galvanized Iron)



**Expanded Metal Mesh** 



**Barrel Chocks** 



Box Beam B90H x 50W



**Decking Panel** 



Box Beam B100H x 50W



Column Guard



Box Beam B120H x 50W



Safety Barriers



Box Beam B140H x 50W



Today's advanced technology enables us to create pre-engineered steel structures that fit into a great range of applications and designs. These pre-fabricated steel structures can be quickly installed and can be ready to use almost instantly.

Eonmetall's research and development team appreciates and fully explored the durability, strength and economic values of steel structures. Years of research, development and constant refinement have enabled Eonmetall offering the construction of steel building. This is particularly helpful for companies that look for building flexibility in this rapidly changing market. Gone are the days of many waiting months for a new manufacturing facility to be set up. The speed of setting up the steel building manufacturing facility is poised to be the reliable, fast and economical building of tomorrow, helping companies saving up to millions of dollars from poor logistics and staying ahead of the competitors.

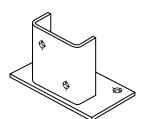
#### Advantages of steel building:

- Steel offers much better compression and tension than concrete thus enabling lighter construction.
- · Steel is available in a form that permits efficient and uniform application.
- · Steel is a better stress-absorber and is less prone to cracks or breakage. In case of an earthquake, it is exposed to much less risks than concrete. The connections within a steel frame structure are less susceptible to pull out or fail, and will not weaken over time that would often come from material shrinkage or the deterioration in strength of the base material over time.
- · Steel has sufficient bond strength and durability properties to prevent either dislodgment or surface damage during normal construction operations.
- Steel is non-combustible and will not produce smoke or toxic gases when subjected to elevated temperatures.
- The thermal-protection capability of steel ensures consistent and uniform protection characteristics.

## Rack Component & Accessories

Eonmetall offers a wide range of rack components and accessories to complement its various racking systems. These include the Safety Barriers, Fork Spacers and Coil Support Bars, Column Guards, Upright Protectors, Pallet Back Stops, Pallet Supported Bars, Barrel Chocks, Coil Support Bars and Skid Channels.

- 1. Horizontal & Diagonal Bracing
- 2. Column Guard
- 3. Upright
- 4. Support Bar
- 5. Skid Channel
- 6. Steel or Plywood Decking Panel
- 7. Coil Support Bars
- 8. Barrel Chocks
- 9. Guide Rail
- 10. Baseplate
- 11. Bay Load Signs
- 12. Row Maker
- 13. Box Beam

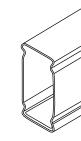


Heavy Duty Base Plate

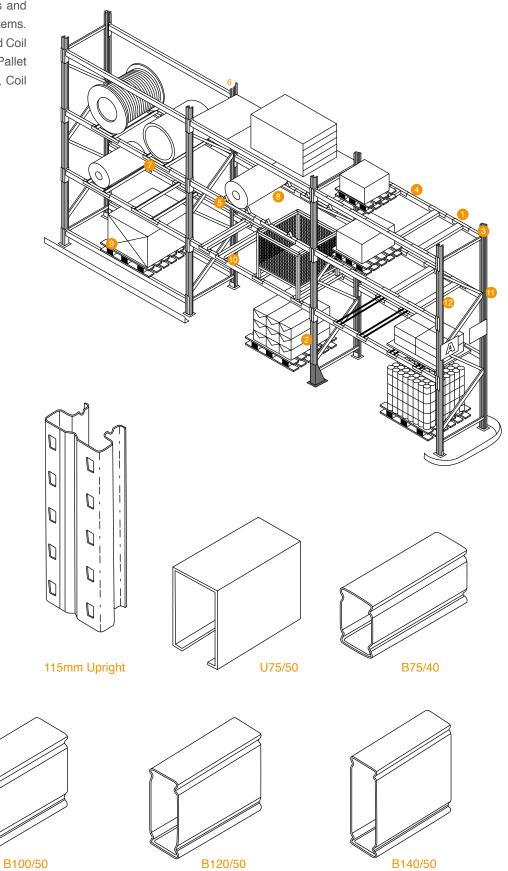
Standard Duty Base Plate

90mm Upright









## Success Story





Eonmetall's achievement today is the result of its relentless team effort, well-managed production and the product quality. To date, Eonmetall has gained industrywide excellent reputation as a reliable and capable supplier of steel products and machinery. Eonmetall takes pride in an impressive track record which is a reflection of its success and integrity. Eonmetall's products and services have proved to be universal through the reaching-out to the international markets with strong presence in various regions including the Asia, Africa, Europe, North America and Middle-East.





## Customer Network







