

Supply and Installation of Pallet Storage System with decking panel as per following:

Site: As per Drawing no: Enclosed and as per the technical description.

The technical details of the system are as follows:

Pallet Storage System with decking panel as per the drawing and requirements:

DESIGN STANDARDS:

The racking components are designed as per German Regulation for Material handling Equipment - FEM.

The assembly, inspection and tests are carried out as per FEM standards.

FEM: 10.2.01: Terminology and description of storage systems.

FEM: 10.2.02: prEN 15512 Design code for Racking

Raw Material:

The components are manufactured from superior quality cold rolled/ hot rolled sheets of steel conforming to EN 10025/ EN 10327/ with minimum yield stress of 250 N/mm². All fasteners like nuts, bolts etc are totally galvanized to withstand any atmosphere.

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System Description:

The racking system conforms to the lay out and indicative sketch provided dimensionally. Heavy Duty Pallet Racking System consists of 4 nos. of 12 bend (for higher rigidity & Safety) PSS uprights connected width wise by horizontal and diagonal bracing channels depending upon height of the uprights. The uprights are to be grouted on the floor by base plate and high bond anchor fasteners. The unit comprises of beams as per the level requirements.

Upright:

High Quality powder coating with a medium coating thickness of 50µm. Roll forming ensures the same high quality of the upright. 12 Bends for rigidity of the system. Security factors as used in Germany. Adjustable Pitch height of 50mm. Easy future expansion with add on bays.

Base Plate

5 mm thickness Post galvanized for high rust prevention. Security feature: Lips which guide the forces into the bottom (not into the upright) in case of an accidental impact by a fork lift truck

Hook Connector

5 hooks for proper fitting Thickness 4 mm. High Quality powder coating with a medium coating thickness of 50µm

Beam

The beams are Box type construction made with by roll forming .beams are manufactured from twin top profiles using latest technology to offer maximum resistance to torsional failure, so that no welding is required throughout the length of the beams and only the hook connectors have to be welded to the beams. These are compatible with the upright section such that the beams can be adjusted up and down.

The steel used is as per the EN10025. These beams are designed to limit the deflection. Closed roll formed section ensures the same high quality all the time.

Diagonal and Horizontal Struts:

C-Section with four bends having thickness of 1.45 mm. Galvanized - if it would be powder coated according to the latest state of the art, because of the profile powder coating coverage would not be uniform inside, leading to a possibility of rusting.

Safety Pin for hook connector:

Galvanized. Specially designed to ensure that the beam is not lifted accidentally. If the force is too high, the pin will break and the system shall remain intact.

Decking Panel:

Galvanised decking panel

