



DeeEss

Engineers India Projects Pvt. Ltd.

STORAGE & WAREHOUSE SOLUTIONS

End to End solution provider

Storage, Industrial packaging, Material handling, warehouse Systems and EPC



sales@deeessengineers.com



+91 7810942414

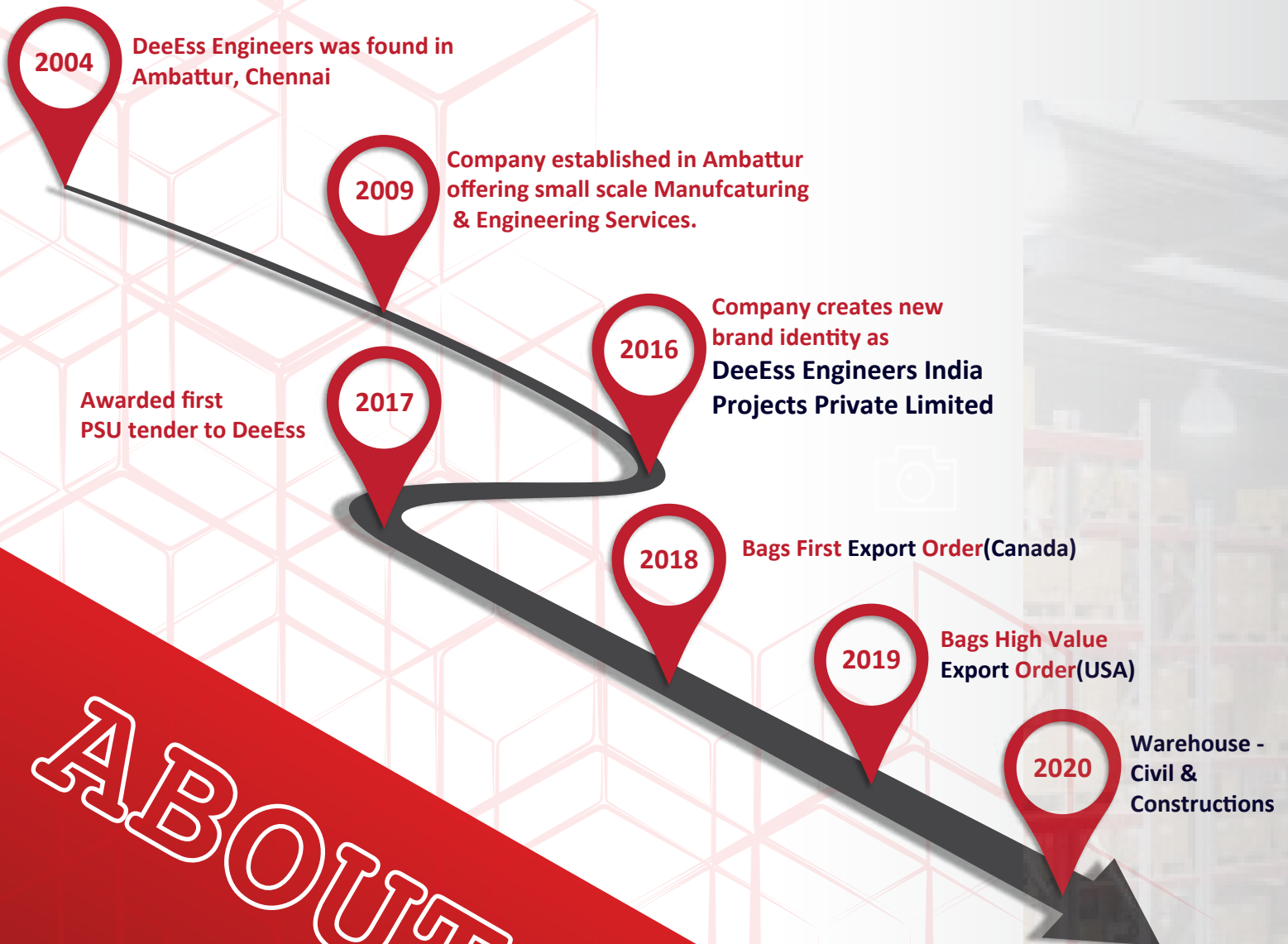


+91 7810942417

+91 9500087351



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ABOUT US

Design & Software Expertise



Caesar



Design Standards

Conceptual
Design

Basic
Engineering

Detailed
Engineering

Cost
Estimation

Design
Analysis

ASME

EN

SEMA

API

IS

ISPEL

DeeEss Extensive Range Of Solutions



DeeEss

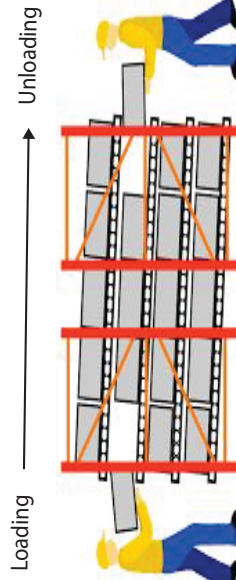
Engineers India Projects Pvt. Ltd.

OFFICE



WAY TO MATERIAL MOVEMENT

RAW MATERIALS STORAGE AREA



- WAREHOUSE DESIGN & CONSTRUCTION
- HIGH RACK
- MEZZANINE FLOOR
- CAGE BINS
- TROLLEYS
- FIFO RACK

PRODUCTION AREA



ASSEMBLY LINE - 1

PRODUCTION AREA



ASSEMBLY LINE - 2

CANTEEN



WAY TO MATERIAL MOVEMENT

EXPORT DISPATCH AREA



WAY TO MATERIAL MOVEMENT

DOMESTIC DISPATCH AREA



- RETURNABLE PACKAGING SOLUTION
- FOLDABLE METAL CONTAINERS
- FOLDABLE PLASTIC CONTAINERS
- CUSTOMIZED TROLLEYS
- FENCING

SPECIAL SERVICES :

- DESIGN OPTIMIZATION
- ENGINEERING SOLUTION
- EPC

DOCK - 1

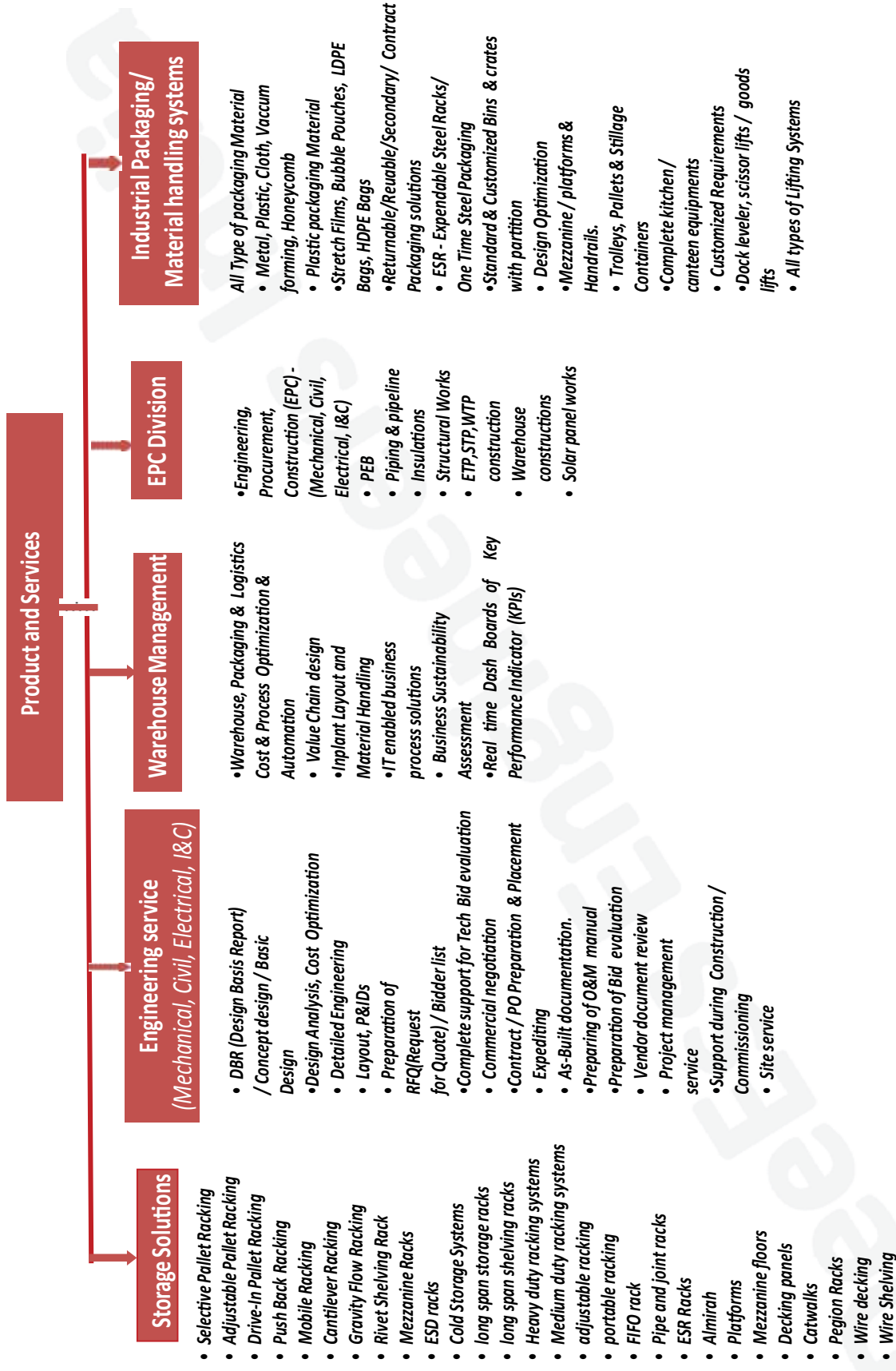
- ESR (EXPENDABLE STEEL RACKS)
- HIGH RACKS
- TRAYS
- SCISSOR LIFT
- EXPORT CONTAINERS
- SAFETY
- BARRICADE
- SAFETY CHAIN
- SAFETY FENCING



DOCK - 2

- DOCK LEVELLER





Technical Specifications

All basic structural components of the system such as frame (Assembly of upright, bracing and base plate), beam & decking panel are designed to a code of practices as recommended by European Racking Norms (EN/FEM/SEMA).

DESIGN

DEESS uses the following standards, as applicable for design.

Racking Codes:

ANSI-MH-16.1-2008	Specification for the design testing & utilization of industrial steel storage racks (American)
BS EN 15512:2009	Steel static storage systems - Adjustable pallet racking systems –Principles for structural design (European)
SEMA	Code of practice for the Design of Adjustable Pallet Racking (British)

Structural Design Codes:

IS 801 - 1975	Code of Practice for use of Cold-formed Light Gauge steel structural members in General Building Construction
IS 800 – 2007	General Construction in Steel - Code of Practice
BS 5950 – Part V	Structural use of steelwork in building - Part 5 - Code of Practice for design of cold-formed thin gauge sections (British)
EN 1993-1- Part 3	Design of steel structures. General rules. Supplementary rules for coldformed members and sheeting (European)
AISI -1996	Cold Formed Steel Design Manual – American Iron and Steel Institute (American)

Tolerances:

BS EN 15620 - 2008	Steel static storage systems - Adjustable pallet racking – Tolerances, Deformations and clearances (European)
SEMA Guideline No 2 -	Guide to Erection Tolerances for Static Racking (British)

Technical Specifications

RAW MATERIAL

Load bearing members of the system are made out of high strength HR steel having properties equivalent to grades specified by IS 2062:2011

The different types of material used for load bearing members such as uprights and beams are:

Steel type	Minimum guaranteed yield strength	Equivalent international standard
IS:2062 - E 350 / Equivalent	250 MPa	JIS 3101: SS 490 EN 10025 : S 355 JR DIN 17100 : St 52
IS:2062 - E 250 / Equivalent	250 MPa	JIS 3101: SS 400 EN 10025 : S 235 JR DIN 17100 : St 42
IS:3601 – 2006 / Equivalent IS:4923 – 1997 / Equivalent	210 Mpa	
IS :513 – 2008 / Equivalent	210 Mpa	JIS 3141

In addition to high strength, the raw material used for structural load bearing members, possesses adequate ductility, to ensure toughness. The material also has the necessary impact strength for cold room applications up to -30 deg C.

FASTENERS

All fasteners used are of grade 8.8. These are with galvanized finish to suit industrial atmosphere

SURFACE FINISH

For long life and protection from corrosion, All Powder coated components are given a thorough anti-rust treatment. The dry film thickness (DFT) after powder coating would be on between 35-70 microns.

DeeEss – Storage Solutions



Selective Pallet Racking System



Drive-In Racking System



Push Back Racking System



Mobile Racking System



Cantilever Racking System



Gravity Flow Racking System

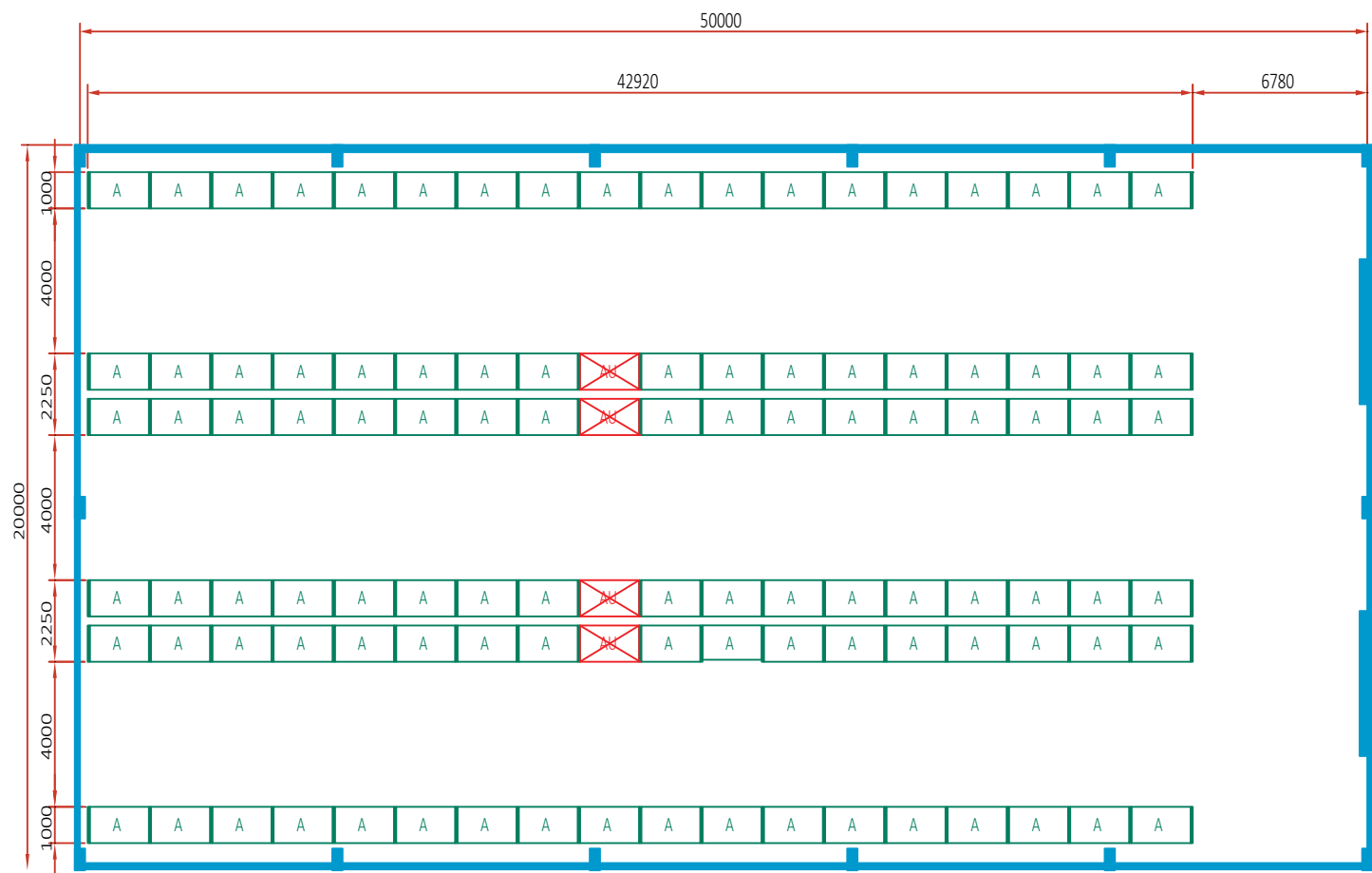


Mezzanine Racking System

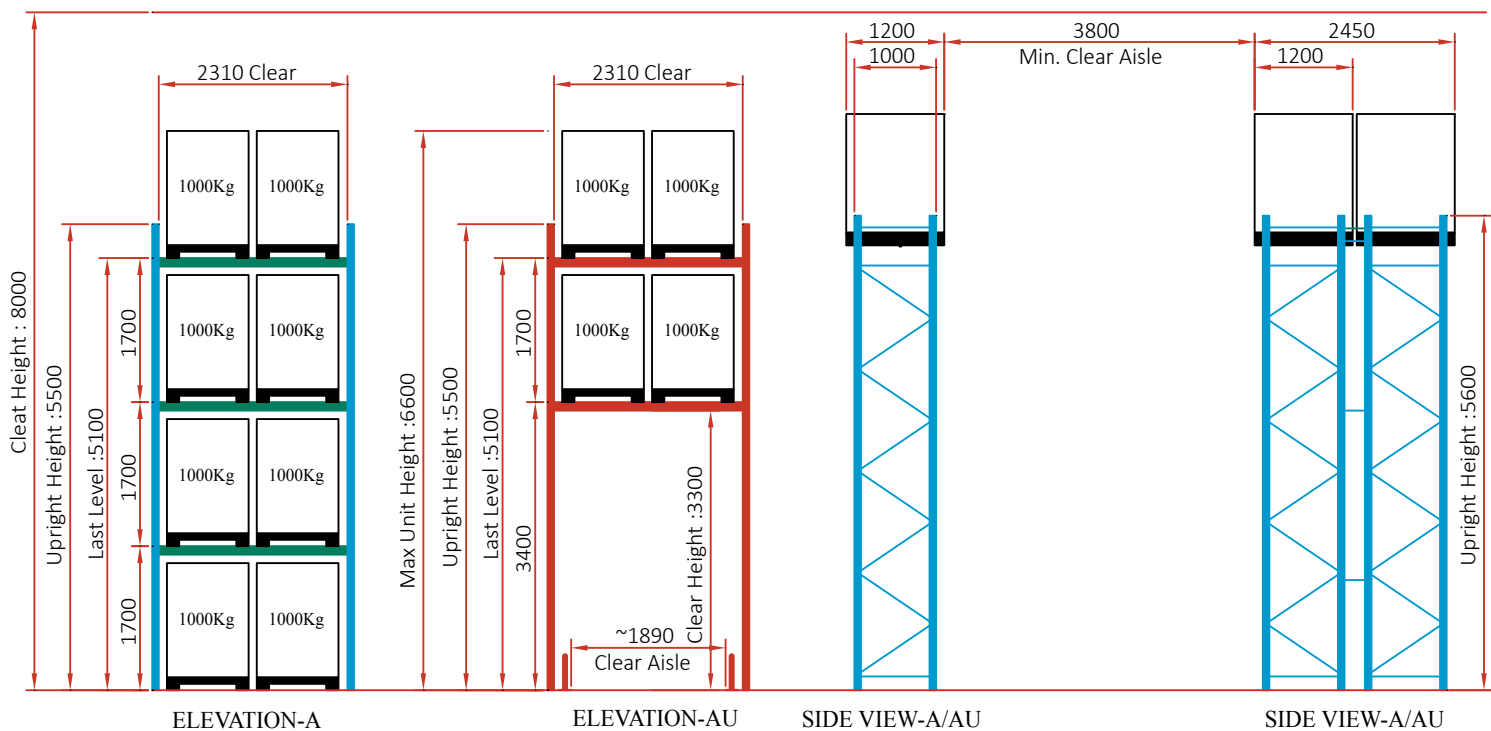


Rivet Shelving Racking System

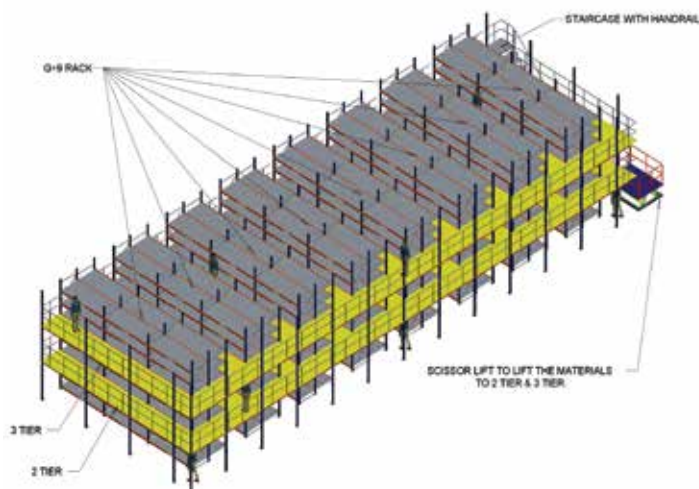
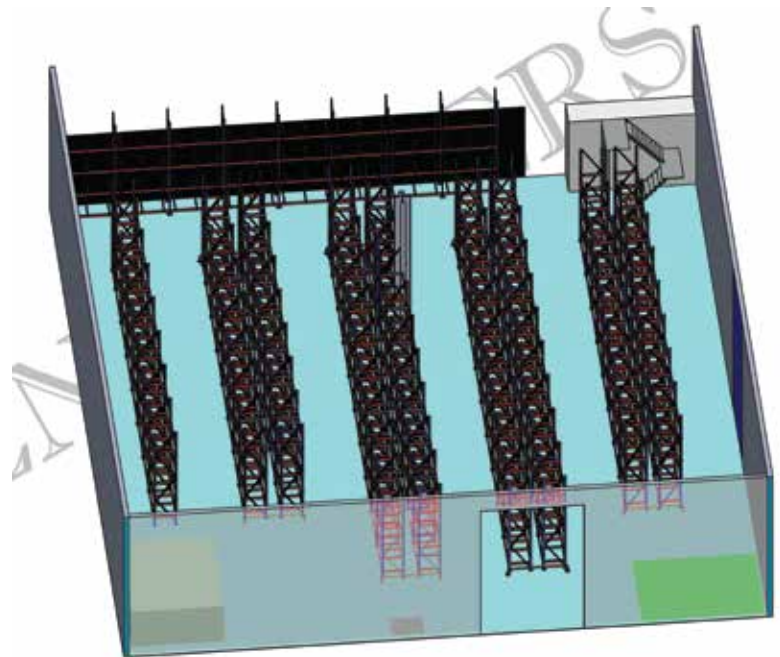
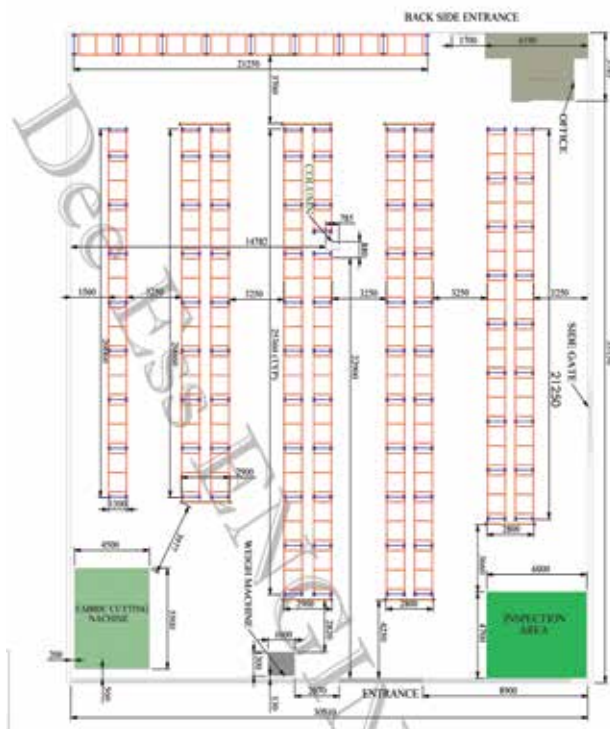
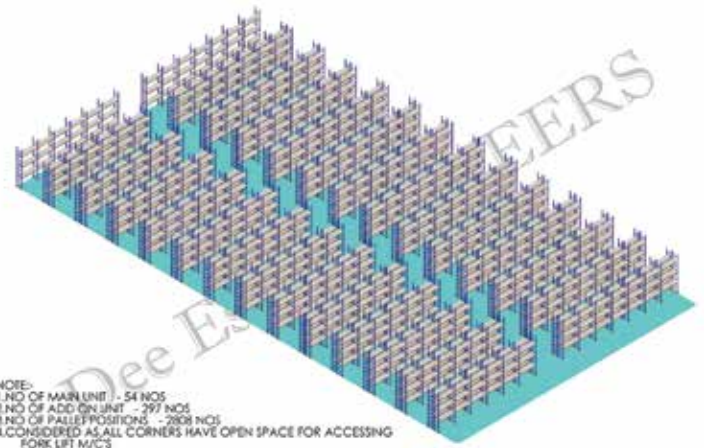
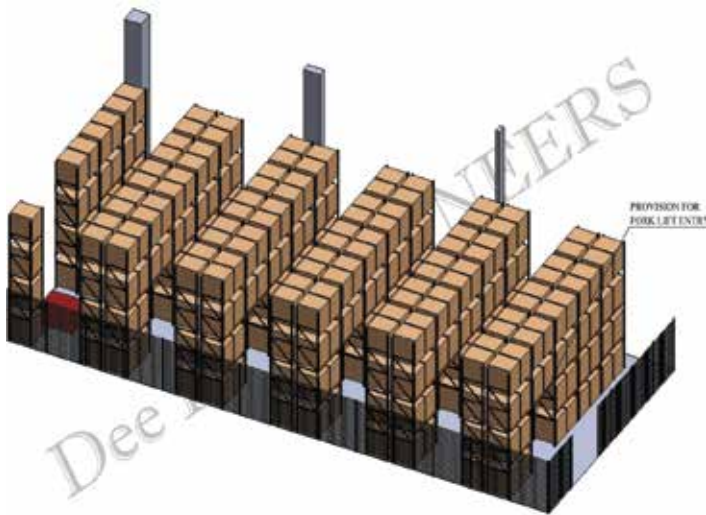
Selective pallet Rack design



LAYOUT



DeeEss – Storage Systems



DeeEss – Storage Systems



Selective Pallet Racking

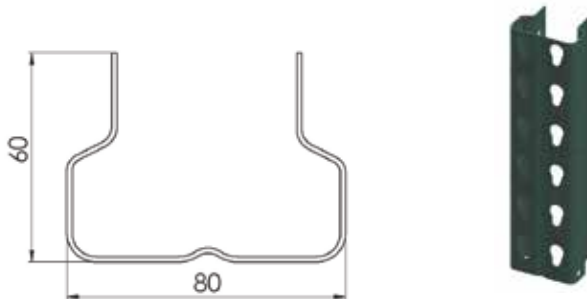


Tear Drop Columns

Upright type	32 & 33
Profile	OMEGA
Profile Width	80mm, 76mm
Profile Depth	60mm, 76mm
Number of Bend	8, 10
Beam Adjustability	50mm
Mfg Process	Single sheet Roll Forming
Finish	Powder coated/Galvanized
Color	RAL 6000 (Patina Green)

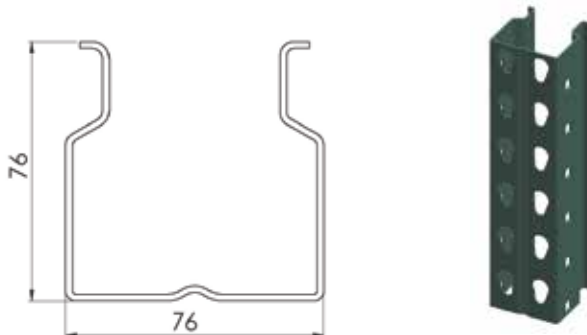


Tear Drop Profile 32



Tear Drop Column Loading Capacity (32 Profile)			
Beam Spacing	32S	32F	32E
914	6486	7384	8283
1066	6386	7185	8083
1219	6187	7085	7883
1373	6087	6886	7684
1524	5987	6786	7584
1676	5787	6586	7385
1828	5688	6486	7285
1987	5489	6287	6985
2134	5289	5987	6686
2286	4990	5588	6287
2438	4690	5289	5888

Tear Drop Profile 33



Beam spacing is the measurement between two intermediate columns.
Use whichever beam spacing is greater for determining frame capacity.
Materials meet or exceed AISI / RMI capacity and deflection requirements

Tear Drop Column Loading Capacity (33 Profile)							
Beam Spacing	33S	33F	33E	33T	33H	33B	33A
914	7883	8981	9979	72075	13172	14470	15867
1066	7684	8782	9780	11875	12873	14170	15467
1219	7584	8582	9580	11576	12574	13871	15168
1373	7385	8382	9380	11376	12374	13571	14869
1524	7185	8183	9181	11077	12075	13272	14470
1676	7085	7983	8981	10877	11875	12973	14170
1828	6886	7889	8782	10678	11576	12773	13971
1987	6686	7584	8482	10278	11077	12174	13372
2134	6387	7285	8083	9780	10578	11675	12773
2286	5987	6786	7584	9180	9979	10977	11975
2438	5688	6387	7085	8582	9380	10278	11177

Beam spacing is the measurement between two intermediate columns.
Use whichever beam spacing is greater for determining frame capacity.
Materials meet or exceed AISI / RMI capacity and deflection requirements

Step Beams

Type of profile	Step Beam
No of Lip connector	3 & 4
Height	76, 102, 114, 127, 152.5 mm
width	63.5mm
Mfg Process	Single sheet Roll Forming
No Of Bend	6
Locking Mechanism	Safety clip
Finish	Powder Coated- Glossy Finish
Color	RAL 2000(Orange)

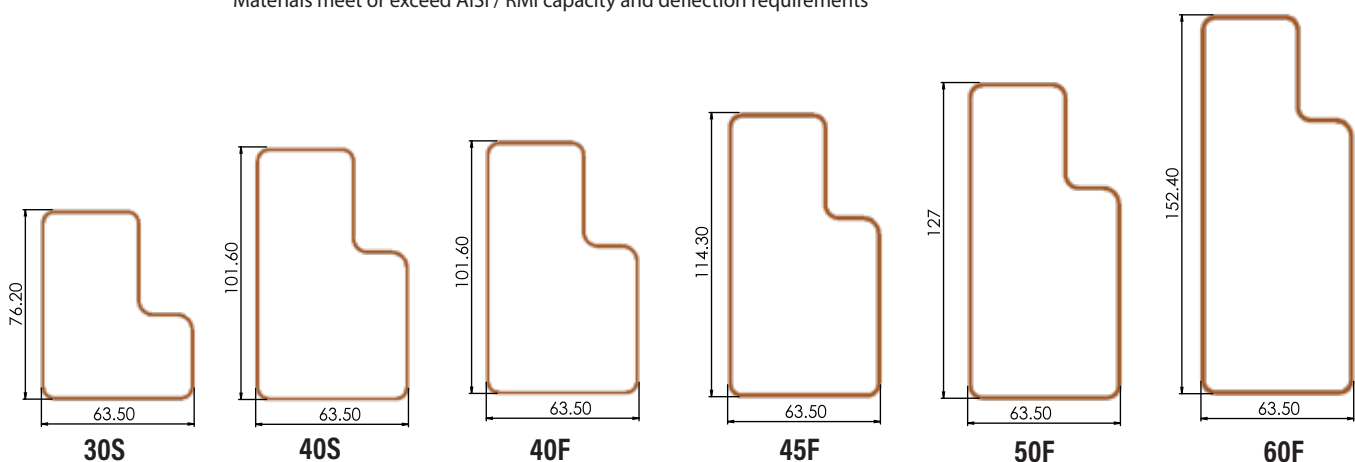


BEAM VARIANTS						
Length	30S	40S	40F	45F	50F	60E
MM	KGS	KGS	KGS	KGS	KGS	KGS
1219	3221	4491				
1524	1891	2845				
1829	1429	3143	3629			
2135	1248	2252	2601	3143		
2438	911	1843	2268	2806	3881	
2743	719	1456	1747	2217	3066	
3048	582	1179	1415	1798	2484	4164
3658	405	818	982	1247	1725	2892

Beam spacing is the measurement from the floor to the top of the first beam level and then to the top of the next beam level.

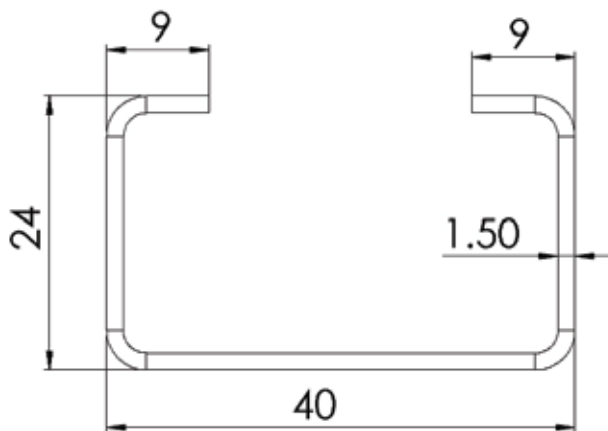
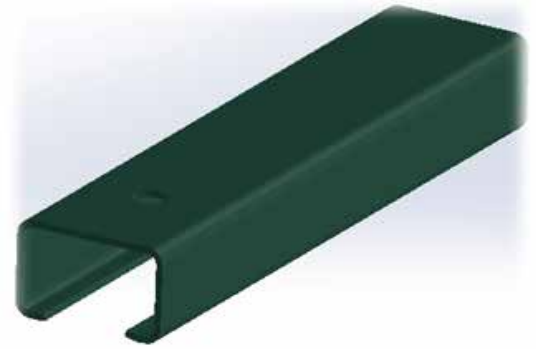
Use whichever beam spacing is greater for determining frame capacity.

Materials meet or exceed AISI / RMI capacity and deflection requirements



Bracings

Type of Profile	Lipped Channel
Profile Dimensions	40 x 24 x 9 mm
Mfg Process	Roll Forming
Number of Bend	4
Connection	Bolted Connection
Finish	Powder coated/ Galvanized
Color	RAL 6000(Patina Green)



Bracing Profile

Bracing Standard Length Specifications

557.6mm
801.7mm
862.4mm
1014.8mm
1034.3mm
1167.2mm
1163.6mm
1298mm

Customized length also manufactured as per requirements



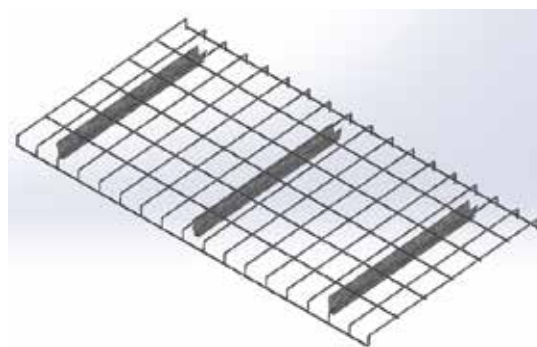
Bracing Bolted Connections



Bracing Arrangements in Uprights

WireMesh Deck

Length	1220 mm
Width	610, 914, 1067, 1168 mm
Height	25 mm
Mfg Process	Roll Forming(Bottom Profile)
Finish	Galvanized/ Powder Coated
Color	Galvanized

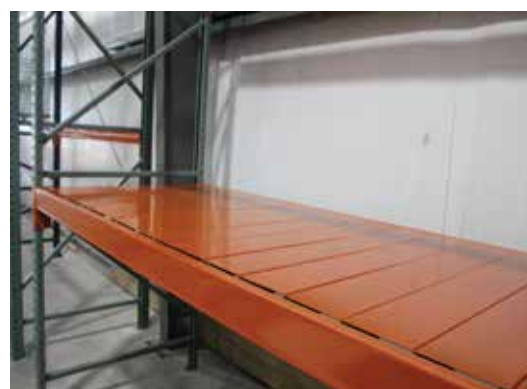
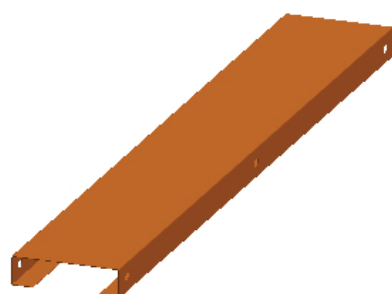


WireMesh Deck Specifications			
Width	Depth	Height	Load Capacity
mm	mm	mm	kgs
1220	635	30	1134
1220	940	30	1089
1220	1090	30	907
1220	1090	30	1270
1220	1240	30	907
Customized length also manufactured as per requirements			



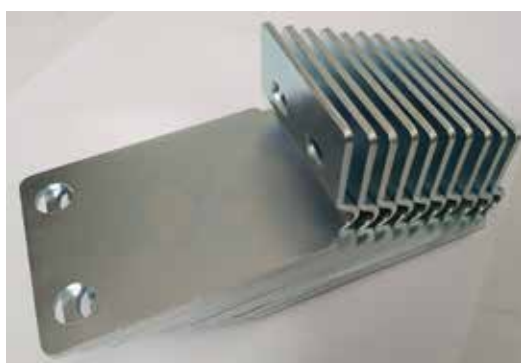
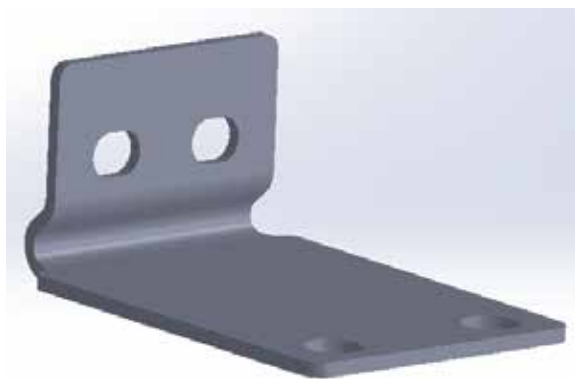
Steel Deck

Width	150/200 mm
Height	40mm
No of Bend	4 & 6
Mfg Process	Roll Forming
Connection	Interconnected
Finish	Powder Coated/ Galvanized
Color	RAL 2004(Orange)



Foot Plate

Width	130 mm
Depth	89 mm
Connection	Grouting
No of Anchors	2 nos
No of Fasteners	2 nos
Mfg Process	Press Forming
Finish	Powder Coated/ Galvanized
Color	RAL 6000(Patina Green)



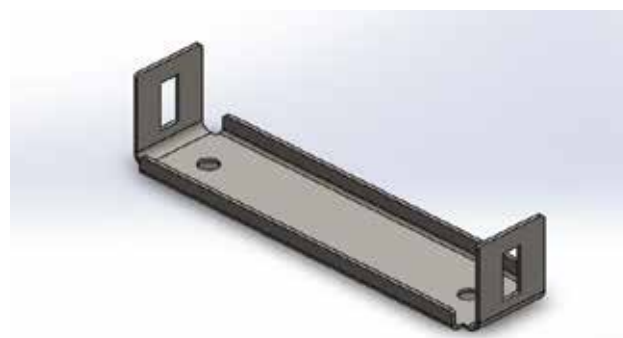
Column Guard

Width	200 mm
Depth	130 mm
Height	305, 457, 610 mm
No of Bend	4 & 6
Mfg Process	Press Forming
Connection	Grouting
No of Anchors	4 nos
Finish	Powder Coated
Color	RAL 1023(Yellow)



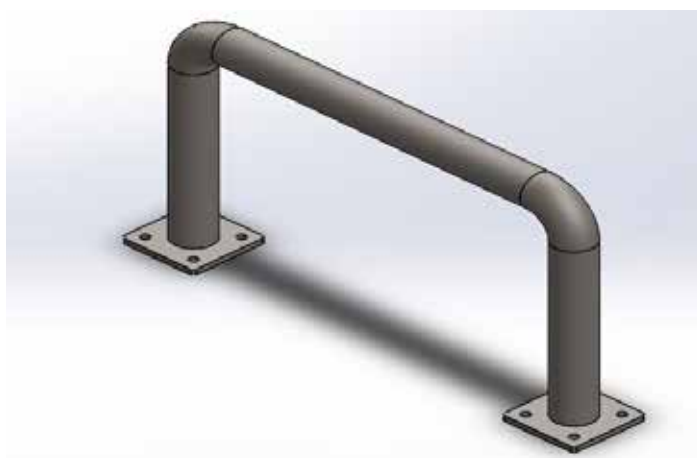
Row Spacer

Length	250 mm
Width	50.8 mm
Height	52 mm
Mfg Process	Press Forming
Finish	Galvanised



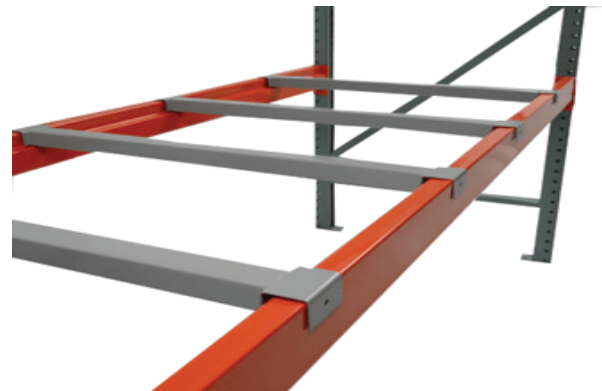
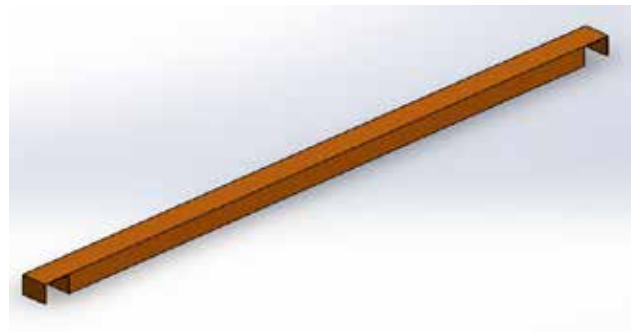
Row Guard

Length	865 mm and customisable length
Height	512 mm and customisable height
Finish	Galvanised/Powder Coated
Color	Yellow colour



Pallet support

Length	1108 mm
Width	40 mm
Height	40 mm
Mfg Process	Galvanised
Finish	Press Forming



Pallet Stopper

Length	2375 mm
Height	25 mm
Finish	Powder Coated
Mfg Process	Press Forming
Color	RAL 6000(Patina Green)



Aisle Tie Beam

Length	2000 mm
Width	270 mm
Thickness	1.6 mm
Mfg Process	Roll forming
Finish	Powder Coated
Colour	RAL 2000(Orange)



Catwalk



Catwalk Flooring

Catwalks Racking is a multi-level storage systems that are designed to use the vertical space in a warehouse by using catwalk aisles and employee access stairways. The storage and retrieval process is performed by the employees and eliminates the use of heavy equipment such as forklifts and order pickers.

Multi-level catwalk racking systems maximize storage density in your warehouse. Catwalk systems have narrow pick aisles, reduced cross aisles and less wasted warehouse space. These systems can be made from custom fabricated rack components or standard shelving components. Catwalk rack storage systems are composed of custom fabricated pallet rack components and provide for the maximum span and capacity.

Catwalk flooring can be made by using solid steel panels, steel grating and perforated steel deck panels.



PERFORATED STEEL DECK FLOOR



CHEQUERED FLOOR



STEEL GRATING FLOOR

DeeEss – Storage Systems



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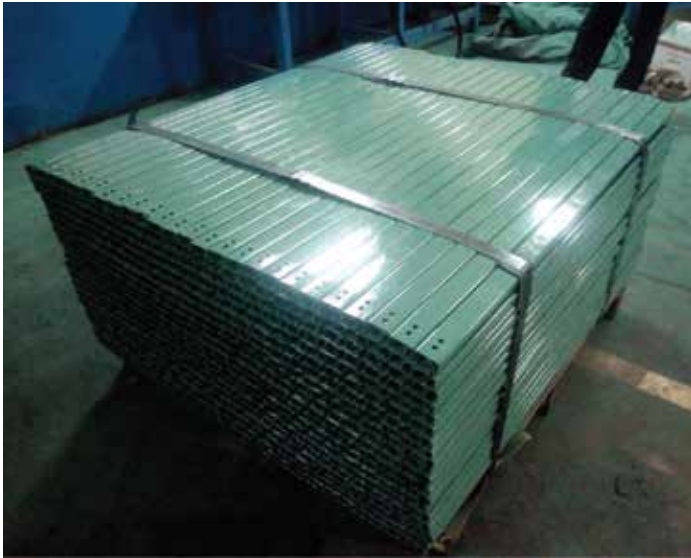
Erection Photos



DeeEss – Exports



DeeEss – Exports



DeeEss – Exports



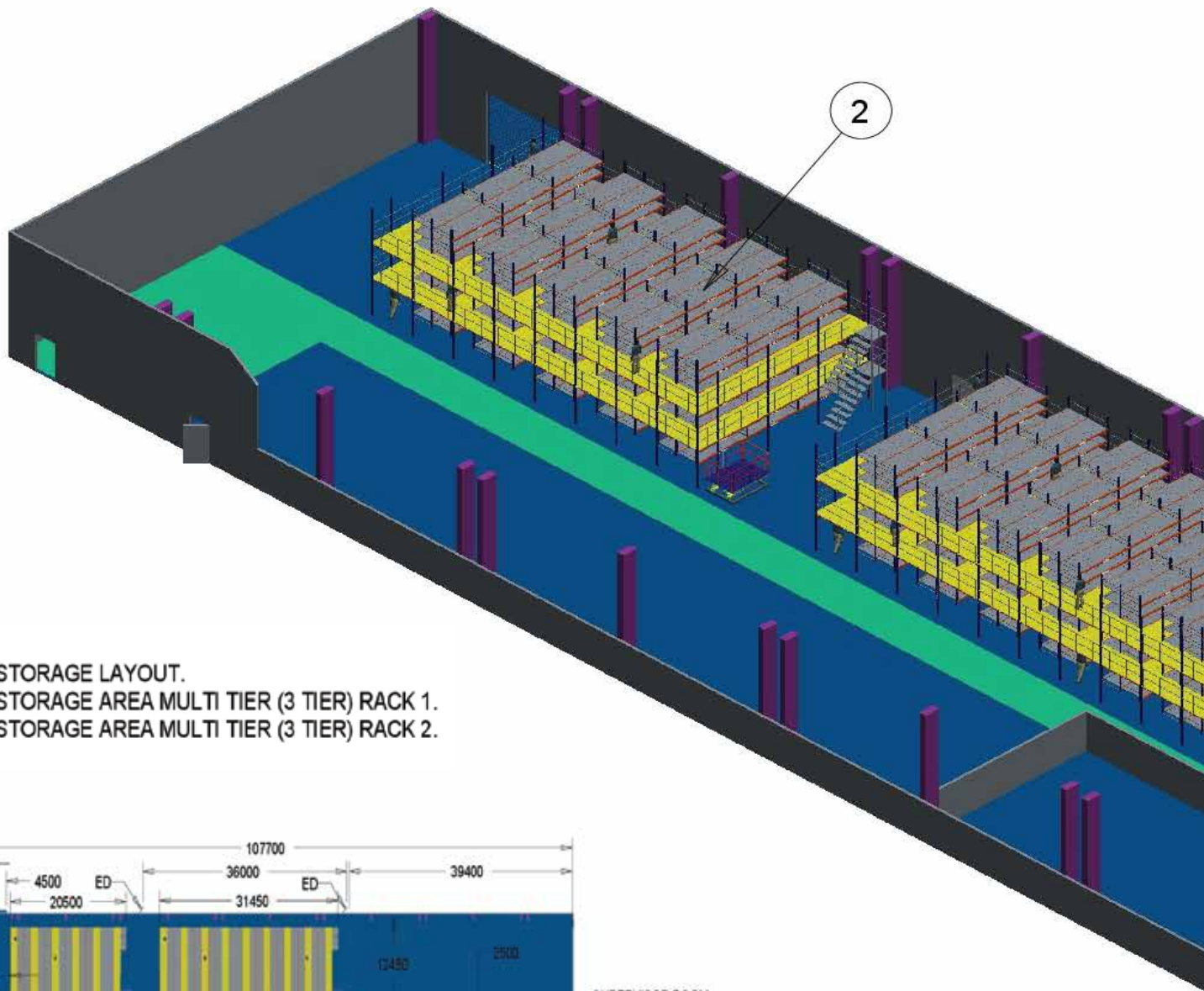
DeeEss – Exports





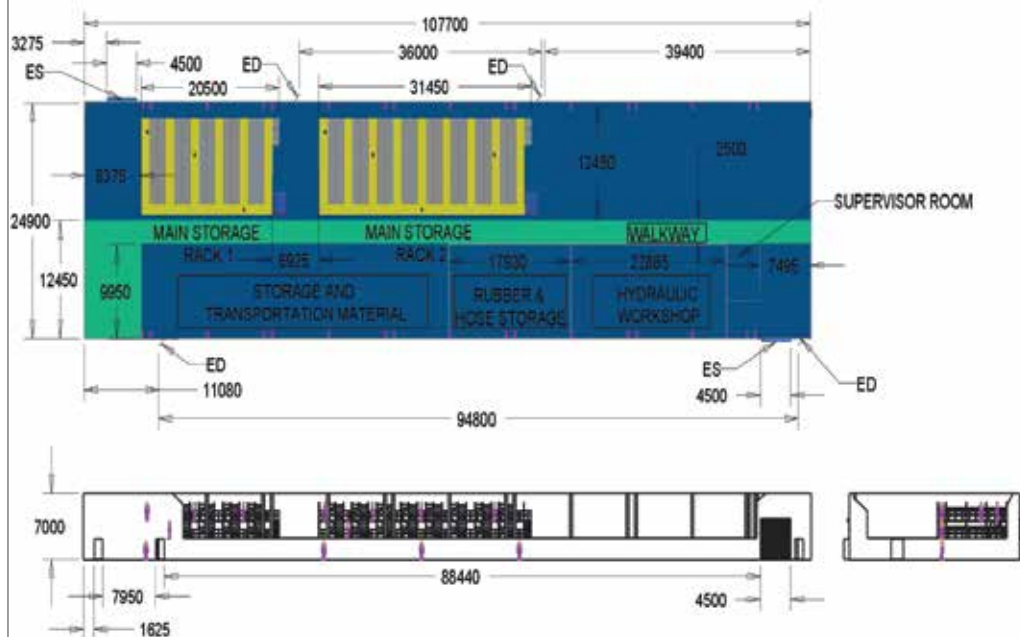
DRIVE IN RACKING

DeeEss – Material Handling & Storage Systems



NOTES:

1. MAIN STORAGE LAYOUT.
2. MAIN STORAGE AREA MULTI TIER (3 TIER) RACK 1.
3. MAIN STORAGE AREA MULTI TIER (3 TIER) RACK 2.

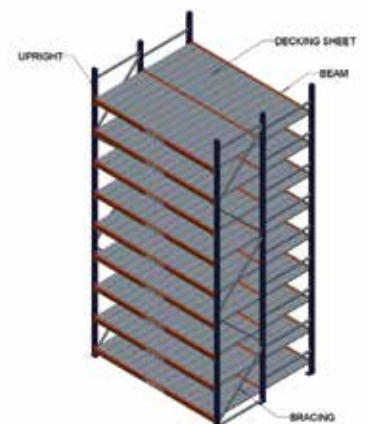


NOTES:

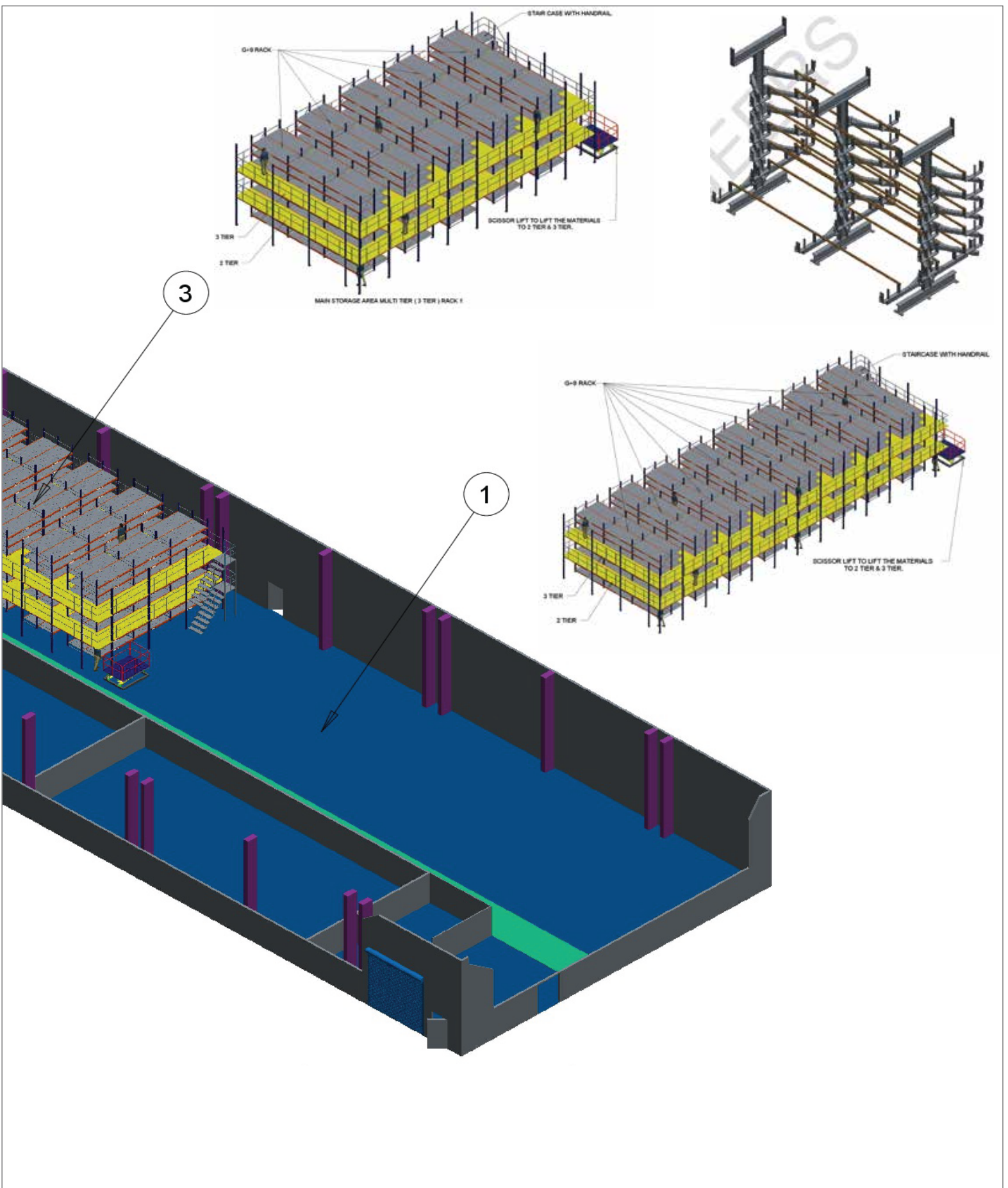
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. LAYOUT AREA DETAILS TAKEN FROM CAD DATA SHARED BY PI.
3. DWG REFERENCE NO : NPI - A 18 - 01 REV 02.
4. MAIN STORAGE AREA GRID LOCATION FROM DWG NPI - A 18-01 REV 02 = C24 - D36.

LEGENDS:

1. ED - EXISTING DOOR.
2. ES - EXISTING SHUTTER.



DeeEss – Material Handling & Storage Systems



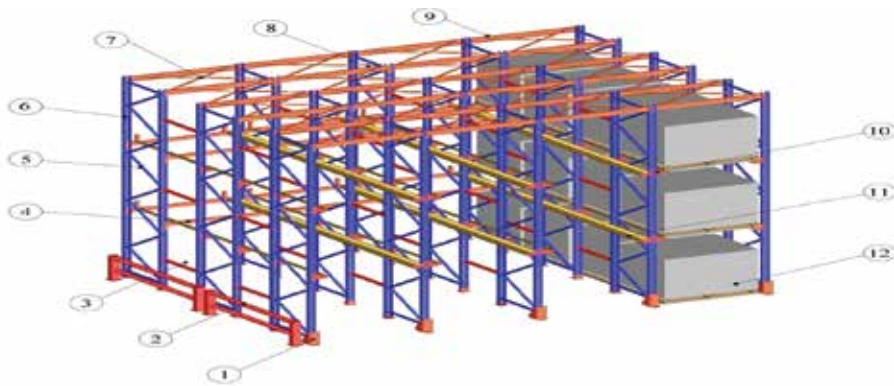
DRIVE IN RACKING

This system is based on the storage by accumulation principle, which enables the highest use of available space in terms of both area and height. Drive-in racking is designed for the storage of homogenous products. It accommodates a large number of pallets for each SKU.

Two management systems are available: the drive-in system, with only one access aisle, and the drive-through system, with access to the load from both sides of the rack. The system is frequently used in cold stores (refrigeration and freezing) which require maximum use of space for the storage of products in a controlled temperature.

Benefits of Drive-in Racking

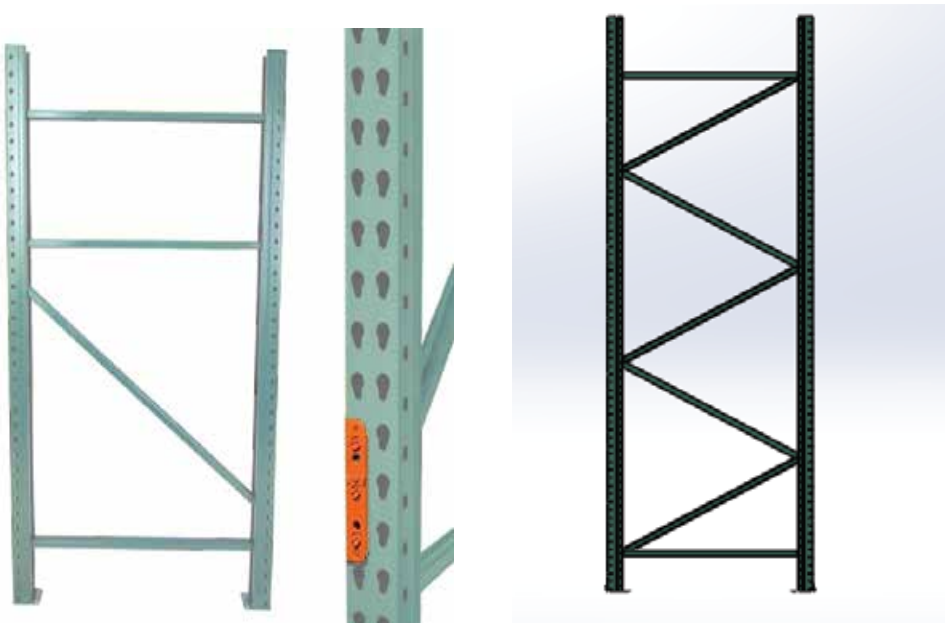
- Perfect for storing large quantities of similar sized items
- Often used in a cold store environment
- Suitable for FILO operations
- Can be operated with a reach truck or counter-balanced fork lift truck
- Ideal for bulk storage



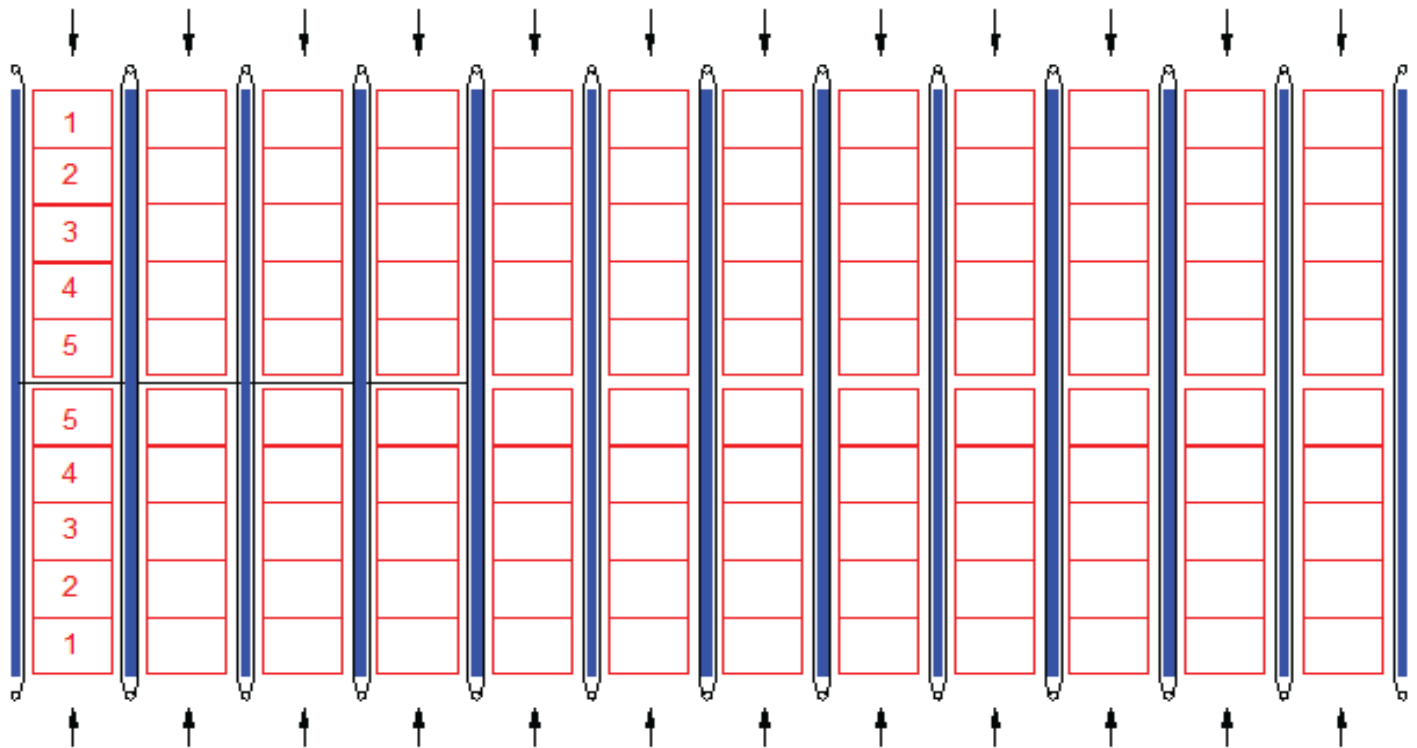
1	Upright Protector
2	Safety Guard
3	Spacer
4	Beam
5	Bracing
6	Upright
7	Top Bracing
8	Top Pull
9	Top Beam
10	Support arm
11	Guide Rails
12	Pallets

FRAME

The frame is one of the basic elements of Drive in compact racking. These frames consist of 2 uprights, their corresponding diagonals, baseplates.



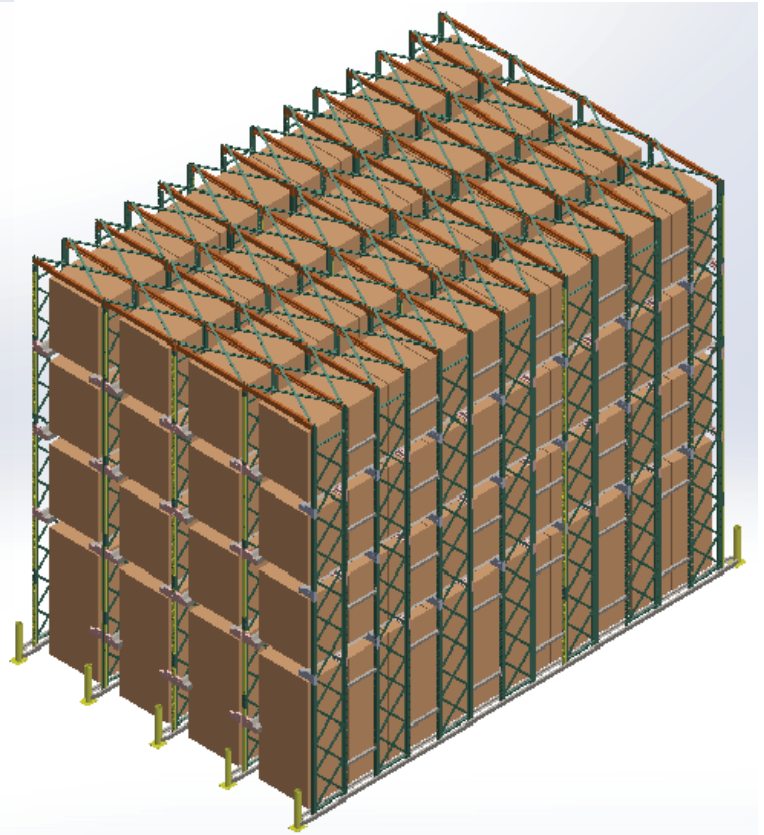
DRIVE IN RACKING



PLAN VIEW-DRIVE IN RACK SYSTEM



ELEVATION-DRIVE IN RACK



ISOMETRIC VIEW-DRIVE IN RACK

TOP BEAM

The top beam joins the frames in the upper area crosswise, to secure the structure by creating gantries. The beams must be placed in all the compact racking aisles.



GUIDE RAILS AND PROTECTORS

Guide rail is a steel rail at floor level that runs along the whole aisle. Its objective is to guide the forklift when it enters the structure and protect it against possible impacts. It helps to separate the forklift from the Drive in compact racking.

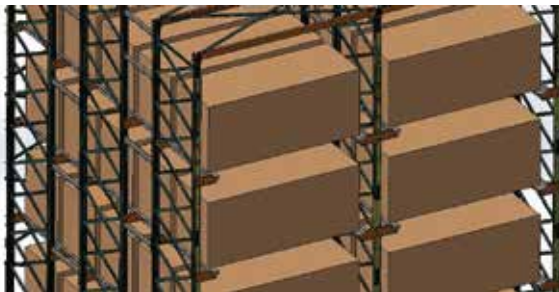


GUIDE RAILS

PROTECTORS

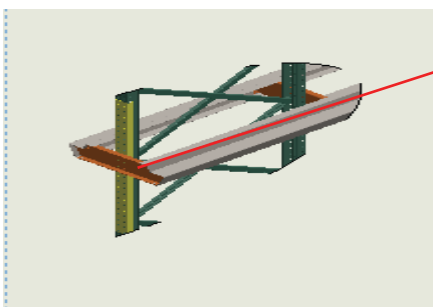
PALLET SUPPORT RAILS

Pallet support rails are the horizontal profiles on which the pallets on each level of the Drive in racking system are supported. They are metal and are perpendicularly secured to the upright by means of the brackets.



PALLET SUPPORT ARM

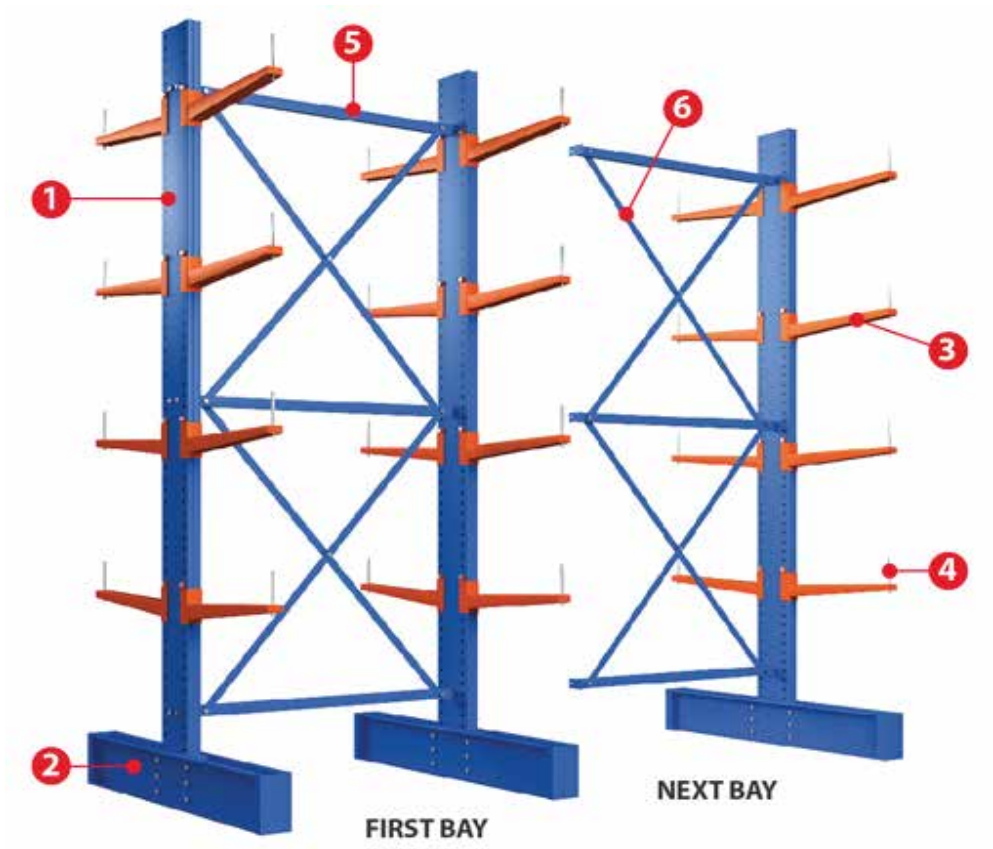
There are two types of arms, which are single arm (left side and right side single arms) and double arm. The single arm is used in each side of the racks, while the double arm is used in between.



PALLET
SUPPORT
ARM

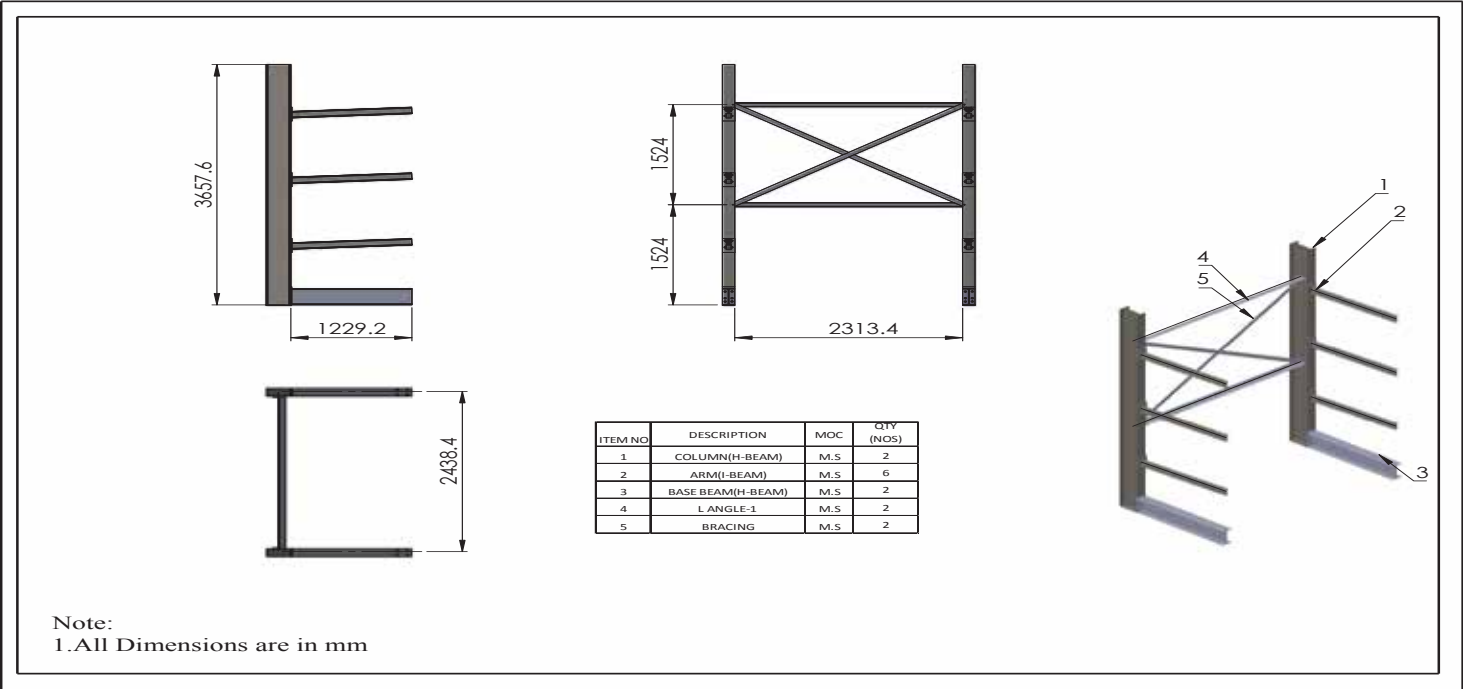


Cantilever Racking System



1	Cantilever Column
2	Cantilever Base
3	Cantilever Arm
4	Arm Stopper
5	Horizontal Bracing
6	Diagonal Bracing

Cantilever-design



Cantilever Racking System

CANTILEVER RACK APPLICATIONS:

Cantilever racking is primarily used for storage of bulky, oversized, long loads such as timber, plasterboard, steel trusses & piping, PVC carpet.

CANTILEVER COMPONENTS:

Uprights – Uprights are the vertical beam that supports the arms.

Base – The uprights connect directly into the base most commonly bolted, providing the stability and support for the uprights to bear the load.

Arms – Racking arms are the horizontal beams that support the load when stored. They can be set at different angles depending on storage requirements.

Braces – Braces connect and support the uprights, creating strength and rigidity



UPRIGHTS



BASE BEAM



CANTILEVER ARM WITH STOPPER



HORIZONTAL BRACING&DIAGONAL BRACING

ADVANTAGES

- Relativity easy to install and reconfigure.
- Ideal for long loads, reducing handling times and improving productivity as stock is more accessible
- Can store products vertically up to 6 metres high.



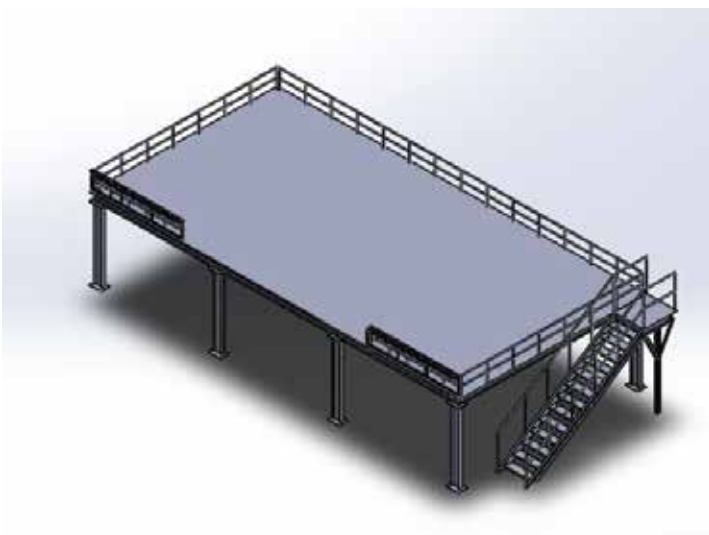
MEZZANINE FLOOR

MEZZANINE

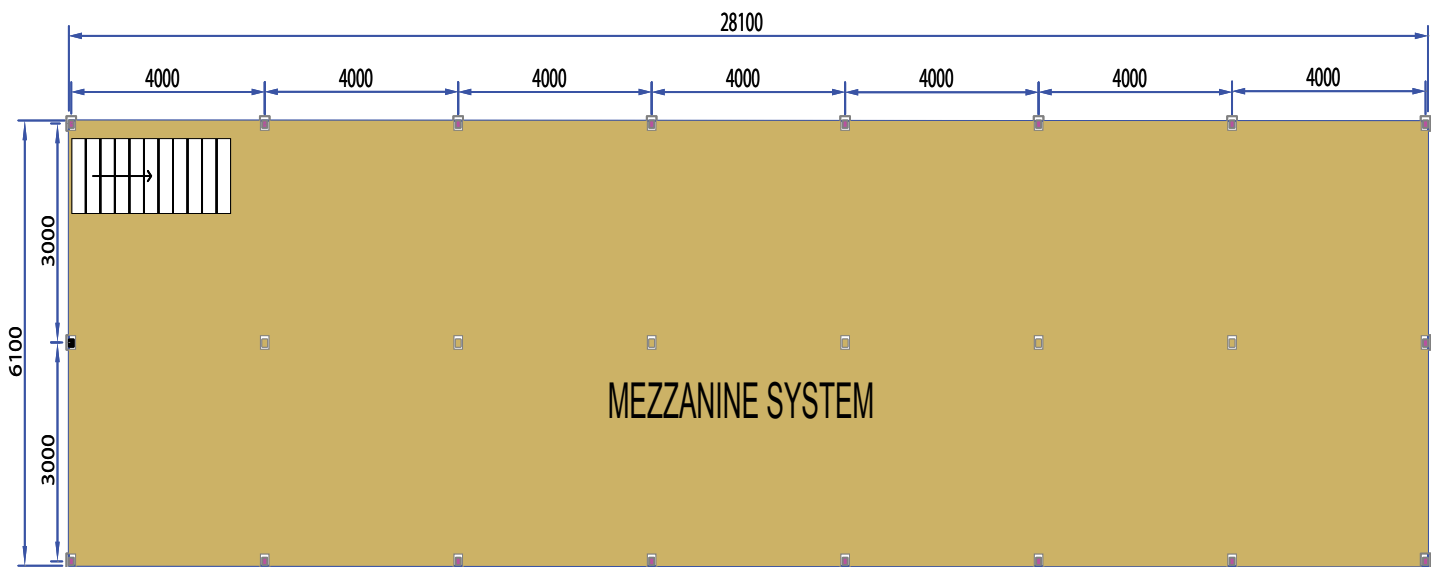
Mezzanines are efficient, quick to install and profitable, maximizing the use of a building's space while creating a distinct separation between two spaces. This optimizes space to a maximum for the least cost and without requiring a building permit. Adding a Mezzanine can be the most economical way to increase warehouse space without the cost of a conventional building expansion

Advantages:

- Multiplies surface space in industrial premises.
- Adaptable to the specific needs of the client, thanks to the great variety of sizes available, types of floors, construction systems, etc.
- Quick to assemble and easy.
- They can be complemented with a variety of shelving system.

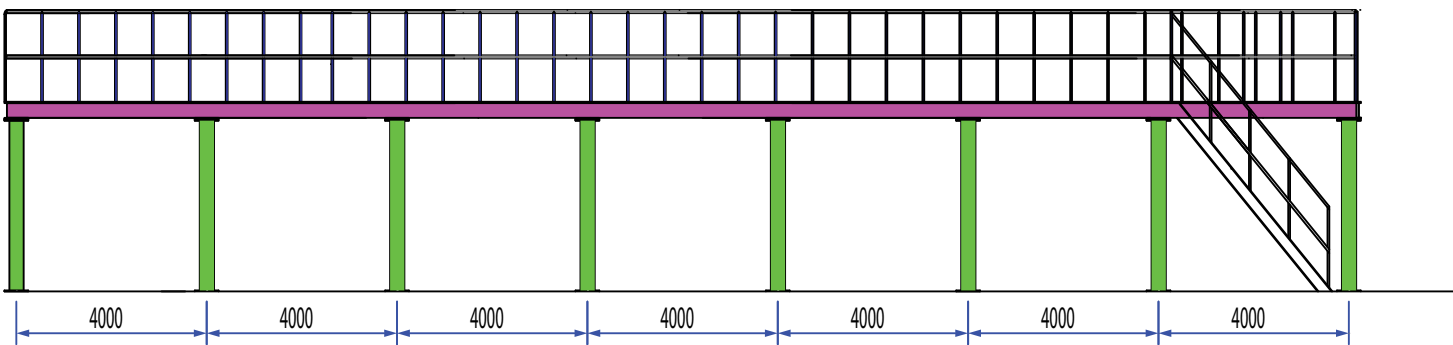


MEZZANINE DESIGN

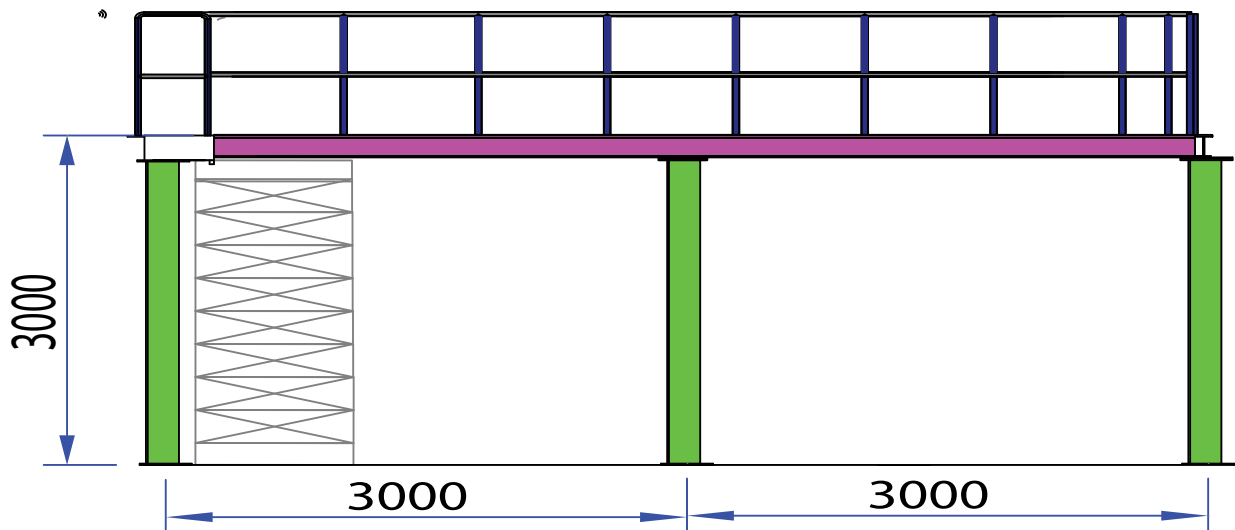


LAYOUT

PLAN VIEW-MEZZANINE SYSTEM



FRONT VIEW



SIDE VIEW

MEZZANINE FLOOR TYPES

Types of Mezzanine flooring

1. Wooden Flooring:

- Good strength and durability
- Treated hardwood for mezzanine floors last for years
- Provide better acoustics
- Easy installation



WOODEN FLOORING

2. Steel decking:

- moisture resistance, enhanced strength, and stiffness.
- secure and solid resistance to foot traffic.
- It is designed in a way to withstand weather conditions better than any other type of decking material.

Steel floor plate has a raised surface(Chequered steel decking), which provides excellent anti-slip function.



STEEL DECKING



CHEQUERED STEEL DECKING

3. Steel Grating

- Steel grating lets light, air, heat, and other fluids pass through the surface of the deck.
- durable, strong, and low on maintenance.

Steel Grating comes in two variants. They are Steel grating and Perforated steel grating



STEEL GRATING FLOORING



PERORATED STEEL GRATING FLOORING

ACCESSORIES IN HAND RAILS

1.Swing Gate

The Swing Gate allows for incredibly convenient opening and closing for mezzanine access. The swing gate system can be provided in single or double swing gate design. The Swing Gate will be designed to swing inward in order to ensure employees can safely operate the system atop the mezzanine deck.



1.SWING GATE

2.Sliding gate:

Similar to Swing Gates, our Slide Gate acts as a handrail until the mezzanine needs to be loaded or unloaded, but then the section can be rolled along the edge of the adjacent railing. This gate type allows for a convenient opening while not restricting the work area.



2.SLIDING GATE

3. Up and Over Gate

The up and over gate is operated with a swing mechanism, that insures the operator is always safely behind a barrier as the gate is opened and closed. This type of gate offers complete edge protection at all times.



3.UP AND OVER GATE

STAIRCASE

Straight stairs are stairs without any changes in direction. On longer flights of stairs, a landing is inserted to break up the flight.



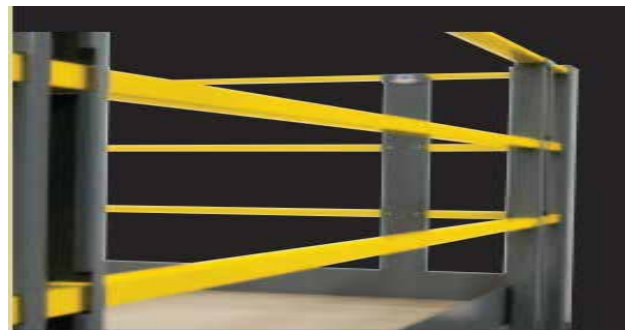
1. STAIRCASE WITH LANDING



2. STAIRCASE WITHOUT LANDING

MEZZANINE HAND RAILS

All mezzanine floors require edge protection for health and safety purposes on all exposed edges. Edge protection is a critical part of any mezzanine floor design, as they need to be secure and robust. Most people will reach out for a handrail when ascending or descending stairs, and having a suitable handrail can help to reduce accidents by supporting individuals in regaining their balance if they slip or fall.



HAND RAILS

GOODS LIFT



Warehouse goods lift is used in to move materials from one floor to the other e.g from the mezzanine, rack storage in warehouses, supermarket etc. Mezzanine goods lifts are suitable for both indoor and outdoor use, flexible and quick to install. They are highly customizable, enabling users to fit their goods exactly to meet their needs and requirements.

SCISSOR LIFT

Scissor lift is one of the most frequently used aerial work platforms which is required to work at heights safely. It is useful to perform not only various tasks such as cleaning and painting, but also it is used in many construction and industrial installation applications

Scissor lift is commonly used to work in narrow spaces where one has to move around at heights in order to perform various tasks safely



CHUTE

Chutes are ideal for load transfer from level to level quickly and efficiently without interrupting the conveyor process. The spiral design would guide the speed of the material, thereby allowing it to pass every level at a constant speed. There are ideal to used in multi-tier structures with more than one level.



FLAT SLOPING CHUTE



SPIRAL CHUTE



RIVET SHELVING

End to End solution provider - Storage, Industrial Packaging, Material handling, Warehouse Systems and EPC

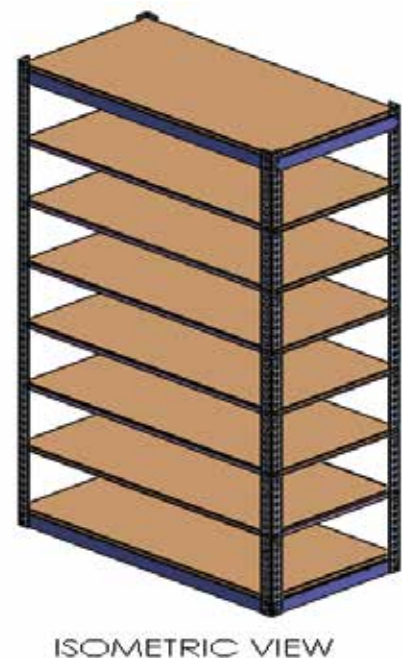
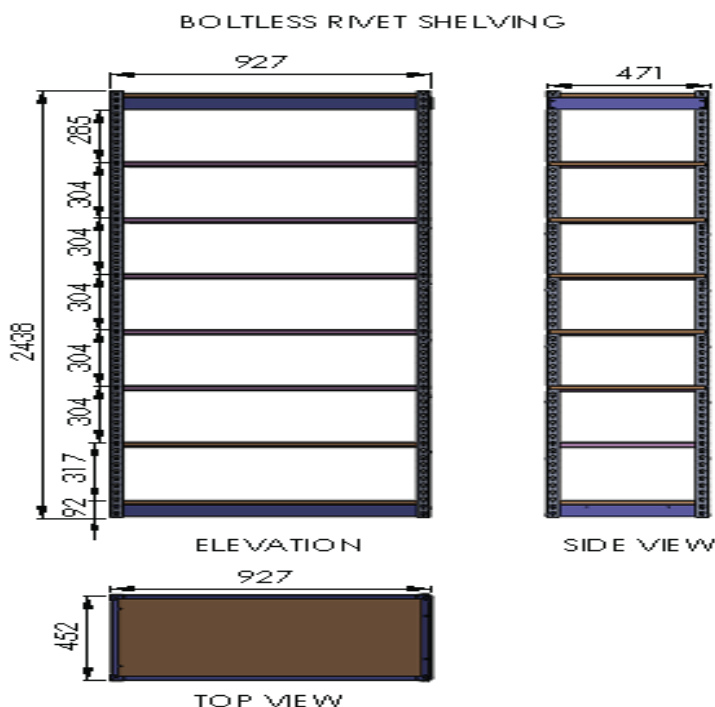
RIVET SHELVING



One of the most popular storage solutions that we offer is our Boltless Rivet Shelving. With a wide range of sizes, capacities, and design layout options, it is perfect for both warehouse and office applications.

BENIFITS OF RIVET SHELVING

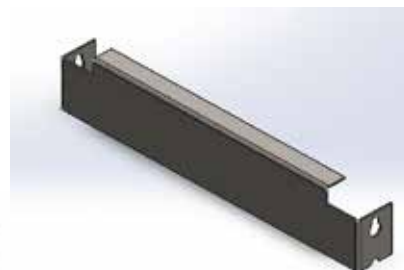
- Boltless
- Easy Self Assembly
- Economical & Flexible
- Finished in Attractive Colors.
- Interchangeability of parts
- Provides clear Access from all sides



RIVET SHELVING



DOUBLE RIVET BEAM



CENTER SUPPORT



UPRIGHT POST



SINGLE RIVET BEAM



STEEL SHELF

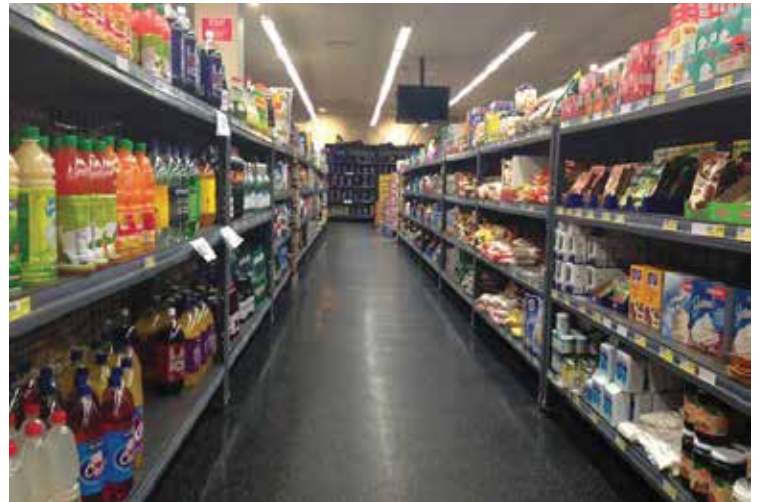


FOOT PLATE



LAMINATED BOARD DECKING

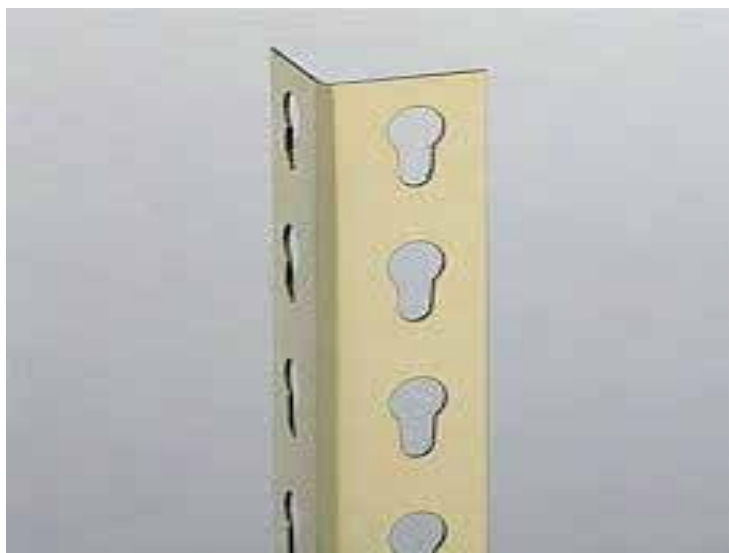
RIVET SHELVING APPLICATIONS



ANGLE POST

- Used as upright post for standard rivet shelving units

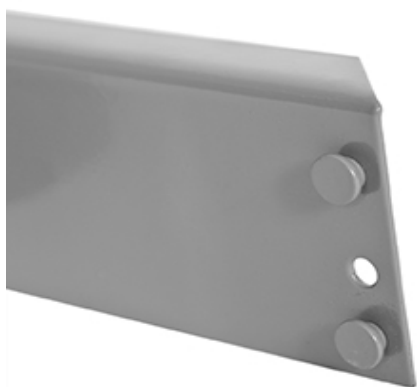
Length	Customisable
Thickness	2 mm/1.8 mm/1.6 mm
Finish	Powder Coated



DOUBLE RIVET BEAM

- Double rivet beams are used to establish unit stability and provide shelf support on all sides.
- Provides higher capacity than single rivet beams but uses more vertical space between shelves.

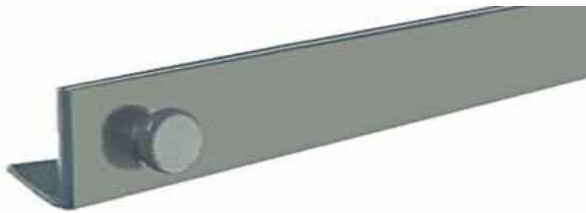
Double rivet beam			
mm	Inch	mm	Inch
305	12	762	30
381	15	914	36
457	18	1067	42
610	24	1220	48
1524	60	2438	96
1829	72		



SINGLE RIVET BEAM

A single rivet beam is primarily used as an intermediate shelf support when maximum vertical space between levels is needed and/or capacity is less.

Single rivet beam			
mm	Inch	mm	Inch
305	12	762	30
381	15	914	36
457	18	1067	42
610	24	1220	48



DECKING

- There are various types of decking that can be used on shelving such as particle board, wire decking, steel decking, etc.

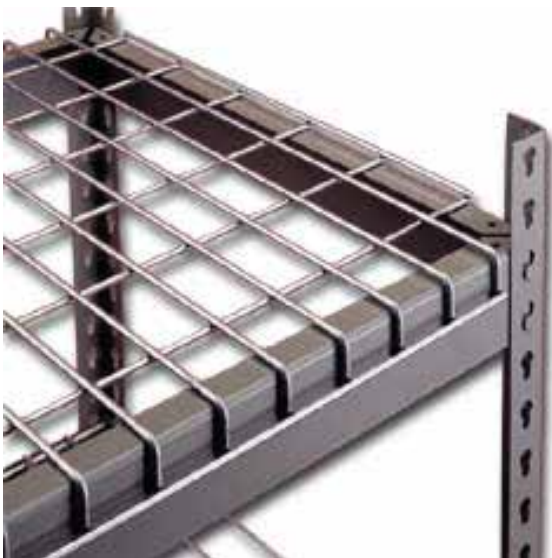
wire decking - great balance of support, load capacity, and cost.

Board decking- for lighter loads

Steel decking - for maximum durability, easy to remove



PARTICLE BOARD DECKING

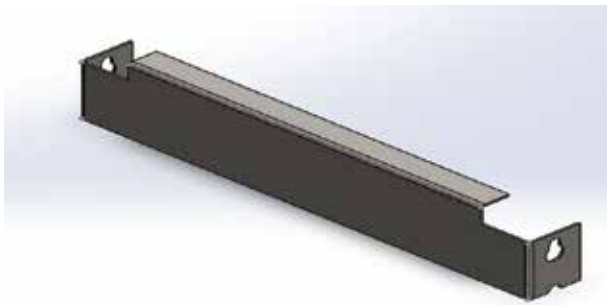


WIREMESH DECKING



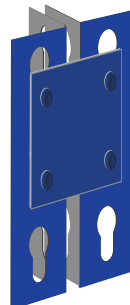
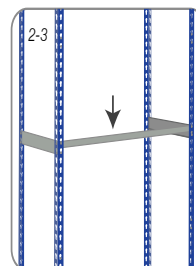
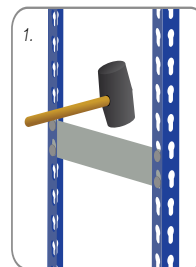
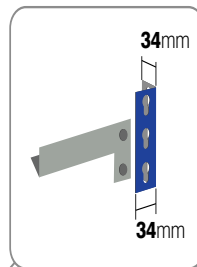
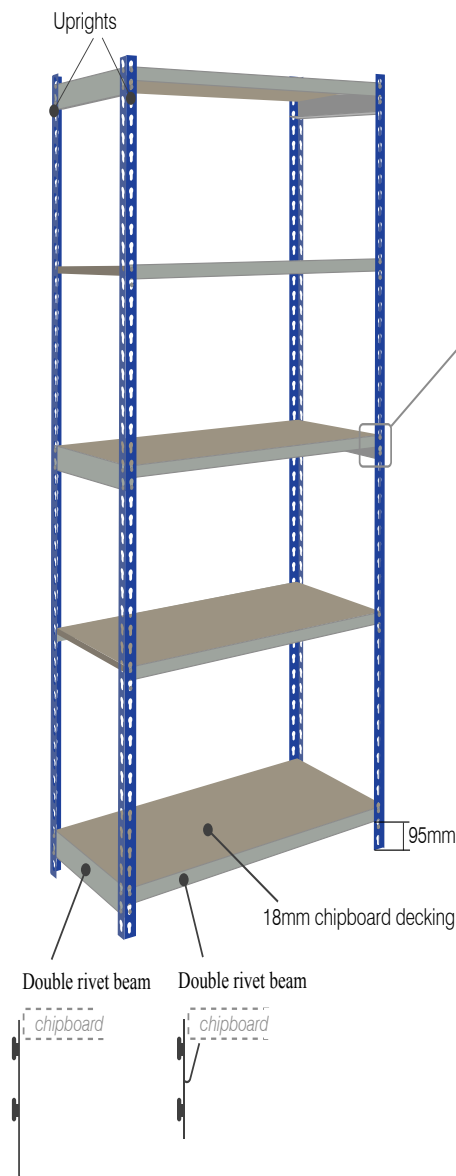
STEEL DECKING

CENTER SUPPORT



- Used to provide additional shelf support front-to-back by bolting between double rivet beams at prepunched locations. Ideal for wider spans.

RIVET SHELVING ASSEMBLY



Tie plate
(creates 10mm gap between bays)

You will need !

A large rubber mallet
Protective gloves
Safety shoes



1. Assemble the end frames first by taking two uprights and tapping in the side beams.

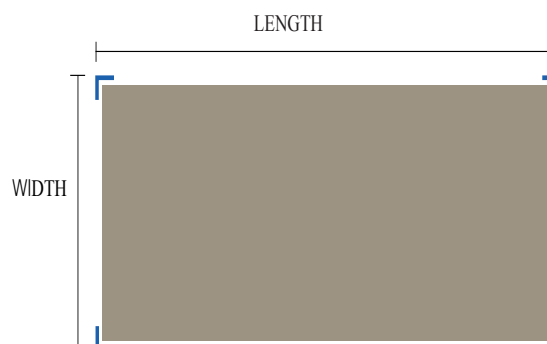
Now install each shelf completely starting from the bottom as follows:

2. Locate the double rivet beams at the required levels.

3. With both beams firmly tapped into position.

4. Now with two people, lay the chipboard panels onto the beams. When safe and secure move up to the next level and finish completely.

5. If the height to weight ratio exceeds 4:1 we recommend fixing to the floor or back to the wall



RIVET SHELVING-PACKGAGING





PRE ENGINEERED BUILDING & CONSTRUCTION

End to End solution provider - Storage, Industrial Packaging, Material handling, Warehouse Systems and EPC

PRE-ENGINEERING BUILDING(PEB)

Pre-Engineered Buildings (PEBs) are the building components which are manufactured at a factory and assembled on site. Usually PEBs are steel structures and can be an alternative to conventional structural steel buildings

They are environmentally friendly and can be aesthetically designed with unique features. An estimated 20-30% can be saved on cost, as compared to conventional building

ADVANTAGES

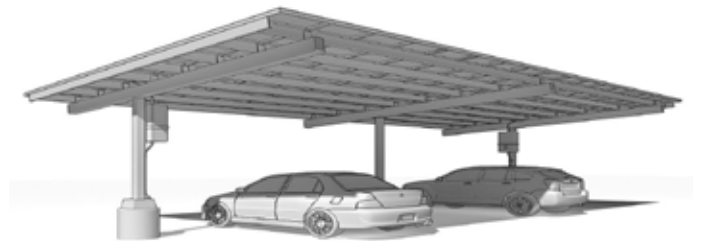
- Reduce construction time
- Standard Light weight flexible frames
- Erection time is faster.
- Flexible of expansion.
- Significant saving in design, manufacturing and site erection cost.



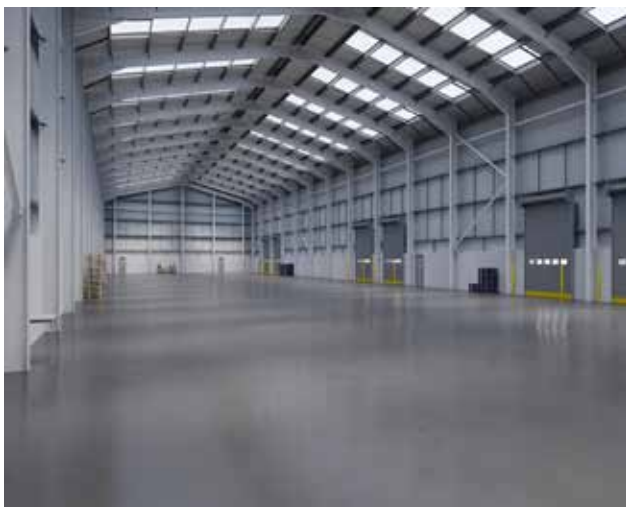
PRE-ENGINEERING BUILDING(PEB)



WAREHOUSE PEB STRUCTURE



PARKING SHADE PEB STRUCTURE

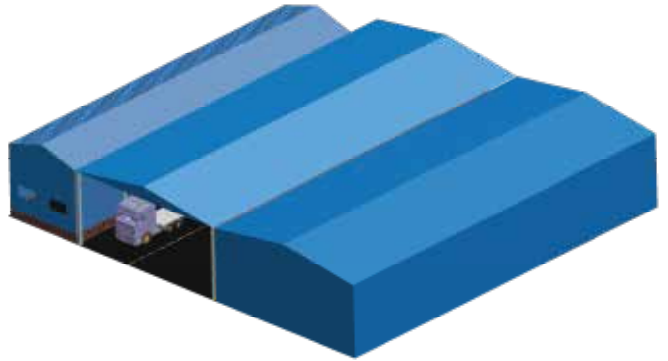


INTERIOR PEB STRUCTURE

DeeEss – Construction



DeeEss – Construction



DeeEss – Material Handling & Packaging Systems



Manufacturing Expertise



Events & Conference



Customers - Partial

Corporate Office

237/1, Rohini Flats, 100Ft Road,
Anna Nagar West Extn,
Chennai - 600 101, Tamilnadu
India.

Ph: +91-7810942414

+91-9500087351

sales@deeessengineers.com

Regional Offices across Global

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No Reasons Only Result



End to End solution provider - Storage, Industrial Packaging, Material handling, Warehouse Systems and EPC