GLOBAL
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Warehouse Racking

2025

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Pallet Racking

APEX pallet racking has been designed and engineered in Australia and complies with Australian Standard AS4084:2023. Selective pallet racking is the most common type of pallet racking used in Australia today. There are many variations of pallet racking such as drive-in, narrow aisle, double deep, archive, cable, vertical, tyre and carpet rack, all of which can be constructed with APEX components.

Zinc Coated Frames

Frames have been tested to be compliant to and exceed the requirements of AS4084:2023.

Several frame grades are available depending on the load required. These are identifiable with a unique stamping code on the upright post, which indicates the steel thickness and profile.

Frame Height	Post Section	Depth
914mm	90-15	610 | 838 | 1219mm
1219mm	90-15	610 | 838 | 1219mm
1829mm	90-15	610 | 838 | 1219mm
2438mm	90-15	610 | 838 | 1219mm
3048mm	90-15	610 | 838 | 1219mm
3658mm	90-15 | 90-20	610 | 838 | 1219mm
4267mm	90-15 | 90-20 | 90-25	610 | 838 | 1219mm
4877mm	90-15 | 90-20 | 90-25	610 | 838 | 1219mm
5486mm	90-15 | 90-20 | 90-25	610 | 838 | 1219mm
6096mm	90-15 | 90-20 | 90-25	610 | 838 | 1219mm
7315mm	90-15 | 90-20 | 90-25	838 | 1219mm

Powder Coated Beams

APEX powder coated orange box beams and open beams are designed to withstand a higher level of impact and to retain their shape better than some other types of beam sections on the market.

To the right are our standard sizes available off the floor. Please note that custom sizes can be made and ordered upon request.

Code	Beam Length	Beam Section	Connector	Load Capacity
PRB0914×080×40	914mm	80 × 40mm box	3pin	3000kgs
PRB1219×080×40	1219mm	80 × 40mm box	3pin	3000kgs
PRB1372×050×45	1372mm	50 × 45mm open beam	3pin	700kgs
PRB1372×080×40	1372mm	80 × 40mm	3pin	2700kgs
PRB1524×080×40	1524mm	80 × 40mm	3pin	2420kgs
PRB1829×080×40	1829mm	80 × 40mm	3pin	2020kgs
PRB2134×080×40	2134mm	80 × 40mm	3pin	1790kgs
PRB2438×080×40	2438mm	80 × 40mm	3pin	1620kgs
PRB2591×050×45	2591mm	50 × 45mm open beam	3pin	400kgs
PRB2591×080×40	2591mm	80 × 40mm box	3pin	1550kgs
PRB2591×100×50	2591mm	100 × 50mm box	3pin	2400kgs
PRB2591×120×50	2591mm	120 × 50mm box	4pin	3150kgs
PRB2591×140×50	2591mm	140 × 50mm box	4pin	4000kgs
PRB2743×050×45	2743mm	50 × 45mm open beam	3pin	365kgs
PRB2743×080×40	2743mm	80 × 40mm box	3pin	1410kgs
PRB2743×100×50	2743mm	100 × 50mm box	3pin	2280kgs
PRB2743×120×50	2743mm	120 × 50mm box	4pin	3000kgs
PRB2743×140×50	2743mm	140 × 50mm box	4pin	3990kgs
PRB3048×120×50	3048mm	120 × 50mm box	4pin	2730kgs
PRB3353×120×50	3353mm	120 × 50mm box	4pin	2510kgs
PRB3658×140×50	3658mm	140 × 50mm box	4pin	2520kgs
PRB3810×140×50	3810mm	140 × 50mm box	4pin	2330kgs
PRB3810×160×50	3810mm	160×50mm box	4pin	3540kgs
PRB3962×160×50	3962mm	140 × 50mm box	4pin	3200kgs
PRB4267×140×50	4267mm	140 × 50mm box	4pin	2150kgs
PRB4877×140×50	4877mm	140 × 50mm box	4pin	1500kgs

Disclaimer: Beam loading capacities are subject to other factors such as frame grade, beam heights and seismic conditions etc.

Outdoor & Galvanised Racking

Galvanised pallet racking is specifically designed for outdoor environments, resisting corrosion and harsh weathering over time. It's also suitable for coolers and storage of chemicals.

All racking quoted by Global Industrial is wind and seismic tested based on the configuration and installation area.

When requesting a quote for outdoor pallet racking, it is important to provide as much information as possible upfront to accurately obtain a quote. Questions you may be asked include;

- Suburb and postcode of where the rack is going to be installed?
- Description of the surrounding area (i.e. industrial estate or farmland)?
- How far away are the nearest buildings or trees over 5m high?
- Height of the first and second beam levels?

From these answers we can determine the wind region and terrain. These can have a significant impact on the overall bay load rating.

"Wind Regions" refers to the classification of different regions of Australia, based on wind speeds and frequency of extreme weather events experienced in those areas. These regions are determined according to the Australian Standards AS1170.2:2021 Structural Design Actions.

"Terrain" is an important factor in building design and engineering. It relates to the areas exposure to wind as a result of the surrounding terrain.

Terrain 1.0 - Racking to be installed where there are no buildings or development, or trees within 200m (flat plane or field).

Terrain 2.0 - Racking to be installed no more than 200m from buildings in a rural area containing trees.

Terrain 2.5 - Racking to be installed no more than 100m from buildings in a well-developed industrial area or no more than 50m from buildings in a semi builtup area.

Terrain 3.0 - Racking to be installed no more than 5m from buildings in a well-developed industrial area.

Cross bracing (X-brace)

Concrete strip footings

Hot Dipped Galvanised (HDG) Beams

Code	Beam Length	Beam Section	Connector	Load Capacity
PRBG1372×075×50	1372mm	75 × 50mm RHS	3pin	2000kgs
PRBG2591×075×50	2591mm	75 × 50mm RHS	3pin	1200kgs
PRBG2591×100×50	2591mm	100 × 50mm RHS	3pin	2170kgs
PRBG2591×125×50	2591mm	125 × 50mm RHS	4pin	3090kgs
PRBG2743×075×50	2743mm	75 × 50mm RHS	3pin	1090kgs
PRBG2743×100×50	2743mm	100 × 50mm RHS	3pin	2070kgs
PRBG2743×125×50	2743mm	125 × 50mm RHS	4pin	2940kgs

Disclaimer: Beam loading capacities are subject to other factors such as frame grade, beam heights and seismic conditions etc.

HDG racking

Outdoor installations

Internal HDG pallet racking

Outdoor installations

Cable drum rack

Narrow Aisle Racking

- Stock picker forklift truck.
- High density racking.
- FIFO principle (First in, First Out).
- All pallets can be retrieved from the racking independently.
- Aisles only required to be wide enough for the forklift to drive into as stock is retrieved perpendicular to the direction of the forklift.
- Commonly 3-3.5m wide aisle spacing ~ Check each model of forklift to confirm aisle width.
- Uses stock picker forklifts as opposed to counterbalance forklifts.
- More technically involved than traditional racking but can provide up to 70% increase in storage against the standard selective pallet racking depending on your space.

Push Back Racking

- No specialty handling equipment is needed. Standard reach or counterbalance forklifts can be used.
- High density racking.
- FILP Prinsiple per level (First in. Last Out).
- Pick face/ front pallet is constantly full enabling shorter loading and unloading times.
- Best suited for storing the same product type in each lane, making it perfect for bulk inventory or fast turn stock.
- Maximum 5 pallets deep.
- Each pallet sits on its own trolley, which rests on slightly inclined support rails. When a new pallet is loaded, it pushes the pallet(s) already in place backward.
- Great alternative to double deep racking.
- Pallets should ideally weigh a maximum of 1200kg and be made of hardwood. If any other type of pallet is used, it's essential to inform us at the beginning of the quoting process.

Selective Pallet Racking

- Counterbalanced forklifts, reach forklifts and walkie stackers.
- Most used type of pallet racking.
- FIFO principle (First in, First Out).
- All pallets are retrieved from the rack independently.
- Configured in either single entry or back-to-back runs.
- Indoor and outdoor applications.
- Aisles are required to be wide enough for the forklifts turning circle. In most cases 4m-5m wide, but varies between models.
- Commonly between 2.4m and 7.3m high.
- Most flexible and common option for warehousing environments with highly flexible stock picking requirements.
- Cost effective, high-capacity storage.
- Wide range of compatible accessories.

Drive In Racking

- Counterbalanced or reach forklifts.
- Very high-density racking.
- Can be designed as single entry drive-in or drive-through systems.
- FILO (First in, Last Out) principle if positioned against a wall.
- FIFO (First in, First Out) principle if used as a drive-through system.
- Pallets can be retrieved only in the order they were entered into the racking, therefore meaning best suited for large pallet volumes of the same SKU.
- Arranged into cubic systems; X pallets wide, Y pallets deep and Z pallets high.
- Specialised components; Robust pallet guide rails, connectors, and heavy-duty floor brackets.
- Technical design process and minimal flexibility available after installation.
- Ideal for cold storage with high turnover and limited space.
- Designed for purpose.

Vertical Racking

- Designed to store long products that stand vertically on its end.
- Configured in either single entry or back-to-back.
- No machinery involved with loading and unloading, exclusively designed to be picked by hand.
- Maximum 500kgs loaded between each divider arm.
- Uses the same upright frames and beams of that in the selective pallet racking.
- Can be integrated with selective pallet racking systems within the same row of racking.
- Great for storing timber, PVC conduit, steel and aluminium.

Cable Racking

- Designed to store cable drums and spindles vertically.
- Minimising the need for additional floor space.

Front mounted:

- Lighter loads up to 500kgs.
- Maximum height of 4267mm high.
- Loads are designed to be pulled at no more than 1.5m from the front of the rack.
- Load forces must not exceed a pull load of 80kgs.

Centre mounted:

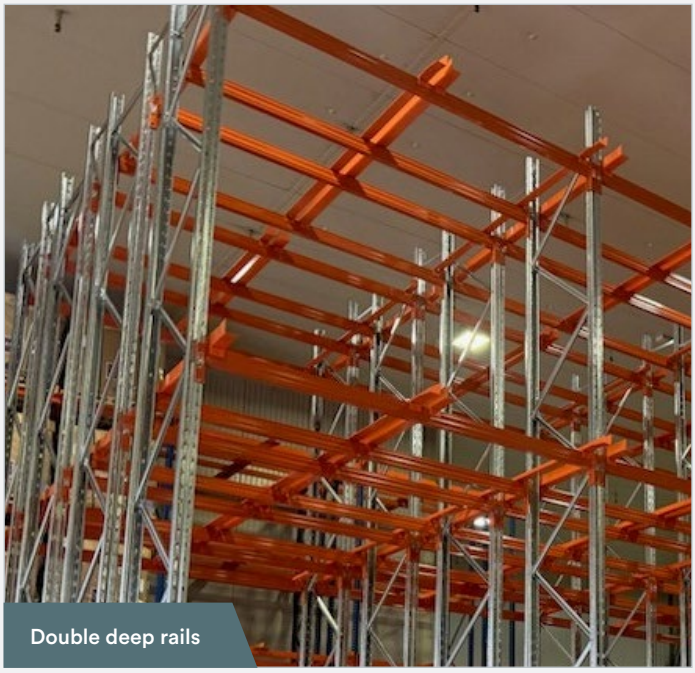
- Up to 1,800kgs per level.
- Maximum frame height of 7315mm high.
- Loads are designed to be pulled at no more than 1.5m from the front of the rack.

Double Deep Racking

- Double deep reach forklift truck.
- High density racking.
- FILO principle (First in, Last Out).
- 50% of product is immediately accessible.
- Aisles only required to be wide enough for a double deep reach truck to operate in, as stock is retrieved perpendicular to the direction of motion of the forklift. Often only requiring 3m-3.5m widths ~ Check each model as it will vary.
- Common heights from 3m and up 10m high depending on model of forklift.
- Stores two pallets deep per row (instead of one), effectively doubling storage capacity in the same footprint compared to selective racking.
- Offers a balance between increased capacity and relatively low investment compared to drive-in or automated systems.

Carton live storage (CLS)

- Inclined roller tracks & optional dividers to create lanes.
- Minimizes handling, no need to move cartons to access rear stock.
- Reduces travel time as the picker stays in one zone whilst stock is replenished from the back.
- Modular and adjustable as it can be tailored to different carton sizes and weights.
- Suits 838mm + 430mm + 838mm racking setup.
- 50kg per roller strip.
- Easily integrated into existing systems.



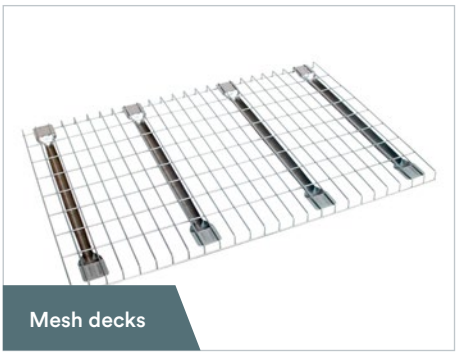
Double deep rails

- Rails provide stable, continuous support for pallets stored two-deep.
- Load rated up to 1500kg per pallet.
- Recommend for use at heights 4m and above or from the 3rd beam level.
- Suits 838mm frames paired with 430mm row spacers.
- Compatible with most major racking brands.
  Easily retrofitted to existing installations.
- Standard finish: powder-coated orange for high visibility.
  Hot-Dipped Galvanized (HDG) finish available on request.

Accessories

Particle board

Available in various lengths and depths to suit pallet racking workbenches and picking levels on selective rack.



Mesh decks

All rated to 1000kgs UDL per deck, available in 1250mm and 1350mm lengths and 609mm, 838mm, 1200mm and 1219mm depths.

Mesh divider

Compatible with mesh decks only and available to suit 838mm deep x 400mm high.

Splice kits

Available in various lengths and depths to suit pallet racking workbenches and picking levels on selective rack.

Beam safety clip

Designed to lock your pallet racking beams to your frames.

Board support

Available in 609mm, 838mm and 1219mm depths. Board supports provide additional structural support to particle board to avoid sagging due to moisture or continuous weight loads. Designed to maintain the load capacity of the beam, not increase the safe work load capacity.

Z-clips

These clips are placed over the beam on either side of the board. It helps reduce movement, such as slipping or sliding. Compatible with 40mm. Not compatible with 50mm beams.

Pallet support bars

Designed for non-standard pallet sizes and added support. Minimum of 2 supports required per pallet. 838mm deep can support 750kgs each and 1219mm can take up to 650kg each.

Fork entry bars

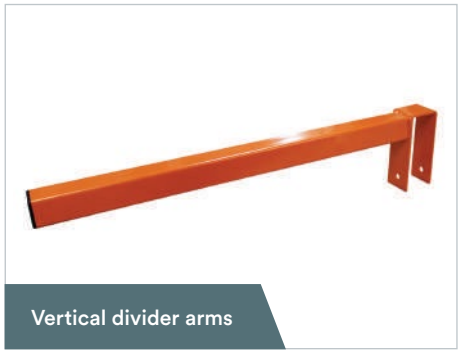
Allows forklift tines to access under an unpalletised load. Must be minimum of 2 per pallet. Available in 838mm and 1219mm deep.

Stand-off brace

Provides spacing between a racking frame and a post. This can be done so that it becomes a deeper structural frame, or to attach mesh backing. Available in 250mm, 838mm and 1219mm and 250mm K-type for outdoor mesh backing.

Row spacer

Also commonly known as row ties or frame ties. Used to provide adequate spacing between two back-to-back rows of selective pallet racking. Available in 430mm zinc, HDG or X-braced and 609mm zinc.



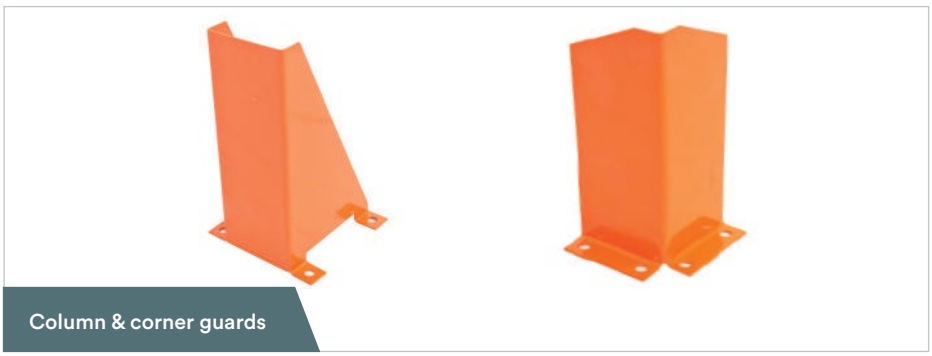
Vertical divider arms

Separates products into sections when being stored vertically. Only available in 600mm long and available to suit 80x40mm or 100x50mm beam sections.

Footplates & shims

a) RGGH122 – HDG Gusset footplate 8mm plate.
b) RH0251 – Regular Internal Footplate 4mm plate.
c) RH0255 – Heavy Duty Castor Footplate.
d) RH0259 – Bench Footplate.
e) RH0262 – Heavy Duty 6mm plate.
f) RH0263 – Stiffened Heavy Duty 8mm plate.

Shims:
g) RH0551 - Universal shim 1.5mm.
h) RH0555 - Universal shim HDG 10mm.



Column & corner guards

Protects columns from low level fork and truck impact Available in 400mm to comply with AS4084:2023.

Hose hangers

Designed to sit over a 90/100/110/120 x 50mm beam section. Only available in 700mmL and have a maximum load of 60kg UDL along its length.

End wrap barriers

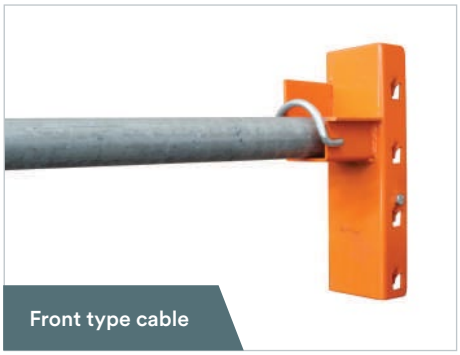
Designed to wrap around the end of rows to protect the frame. Available in powder coated and HDG: 1090mm, 1470mm, 2360mm and 2530mm lengths.

Post caps

Black caps to suit 90mm APEX posts and CLS. Great for workbenches.

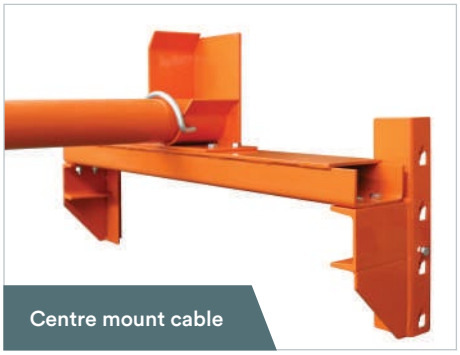
Coil/Drum supports

Designed to store large cylindrical objects such as coils, cable reels and 44-gallon drums on pallet racking in a flat horizontal position. The angled FTB supports are adjustable to help suit several different sizes. Available in either 838mm or 1219mm depths.



Front type cable

Designed to clip onto the post and mount a pipe, creating a spindle that can hold up to 500kg and allow easy access to cable drums.



Centre mount cable

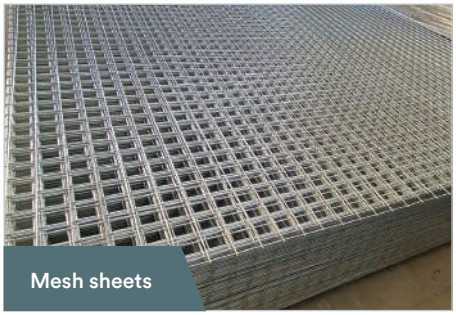
Designed to store heavy cable drums within selective pallet racking. Suits 838mm deep racking and maximum of 1800kg per set.

Mesh Backing Sheets

To comply with the Australian Standard AS4084:2023, fall protection must be installed on the back of pallet racking where there is potential for products stored at height to fall onto pedestrians or vehicles, such as forklifts.

Suitable for both indoor and outdoor applications.

Sheet size	2900mm x 2200mm
Mesh aperture	50 × 50mm
Wire Thickness	3mm
Finish	Zinc



Mesh sheets

Installed mesh backing

Installed mesh backing

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