

SELECTIVE PALLET RACKING

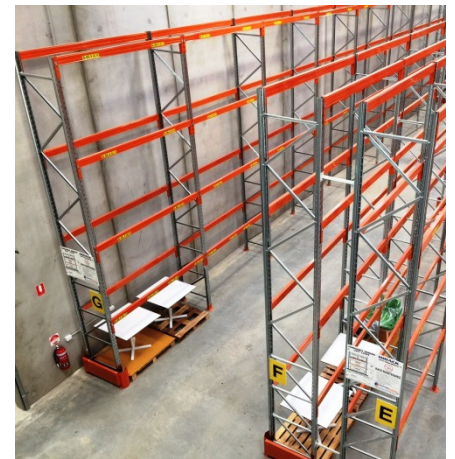
DESIGNED & ENGINEERED IN AUSTRALIA

Pallet racking is a 'dynamic structure', not a set of components!

Our experienced staff will help you select the right racking to meet your needs and calculate the Safe Working Load based on your configuration to comply with AS4084-2012.

Standard selective racking sizes

Upright Frames	Pallet beams (Clear entry bay width)		
	1 pallet wide	2 pallets wide	Wide bay
Height			
914mm	1372mm		
2438mm	1524mm		
3048mm		2591mm	
3658mm		2743mm	
4267mm			3048mm
4877mm			3353mm
6096mm			3810mm

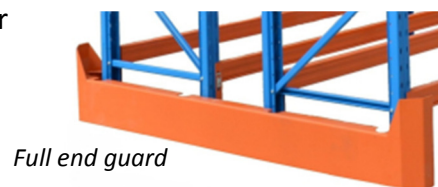


Standard frames are 838mm deep for a standard 1170mm x 1170mm pallet.

Rack protection

End frames exposed to cross aisles or intersections should be protected.

We have single post column guards and full end guards for both single deep and back to back racking runs.



Full end guard








Column guard

Rack accessories



Ask about our range of rack accessories, including:

-  Shelving beams (1372mm, 1829mm, 2438mm, 2591mm & 2743mm)
-  Pre-cut particleboard shelves
-  Under-shelf support bars (for 838mm and 1219mm frame depth)
-  Mesh shelving decks (for 838mm and 1219mm frame depth)
-  Mesh backing solutions

Rack inspections

Rack inspections should be conducted at least once a year by a competent person.

Ask us - we can assist with inspection and reporting services for pallet racking.



Selective Pallet Racking

Pallet racking is a dynamic structure, not a set of components.

We will work with you to determine the right components for your application, based on your loading requirements and the configuration of your racking.

Frames

Height	Depth
914mm	838mm
1829mm	838mm
2438mm	838mm
3048mm	838mm
3658mm	838mm
4267mm	838mm
4877mm	838mm
6096mm	838mm

There are a number of options to be determined depending on loading and configuration of your racking:

- Column thickness
- Bracing pattern
- Baseplate type



Frame depth is 838mm to suit a standard Australian pallet (1170mm x 1170mm). Other depths available if required: 600mm, 1220mm, and custom depths.

Beams

Beam Length	Beam Depth	Section Type	Capacity / beam pair
2591mm	100mm	Box	2400Kg
2591mm	120mm	Box	3200Kg
2743mm	100mm	Box	2300Kg
2743mm	120mm	Box	3000Kg
3048mm	120mm	Box	2600Kg
3353mm	120mm	Box	2300Kg
3810mm	140mm	Box	2400Kg
1372mm	77mm	Open	1800Kg
1524mm	77mm	Open	1600Kg
2591mm	77mm	Open	900Kg
2743mm	77mm	Open	800Kg
1372mm	60mm	Step	
1829mm	60mm	Step	
2438mm	60mm	Step	
2591mm	60mm	Step	
2743mm	60mm	Step	

Please note:

The overall bay capacity must be considered.

Beam level capacity may be limited to less than stated maximum by the overall bay capacity.



Beam Capacity: Based on a uniformly distributed load. Overall bay load must also be taken into account.



Calculating overall run length

Each upright adds 100mm to overall run length in addition to the sum of the clear entry bays.

For example, a run of 2 x 2591mm bays:

$$100 + 2591 + 100 + 2591 + 100 = 5482\text{mm}$$

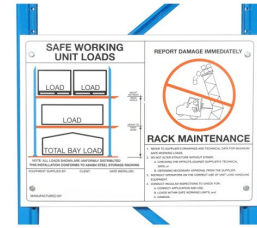
Rack safety

Safe working load signs

Load sign with maintenance info	(for HIRACK only)
Generic load sign	

Signs include load stickers.

Loadings only apply to racking installations in good condition, with no damage, and correctly installed in accordance with the Australian standard.



Rack Protection Products

Column guard (wrap around guard)
Column guard (angle corner guard)
End guard, single entry rack: 1150mm
End guard, double entry rack: 2410mm



400mm high column guard



Single-entry end guard



Double-entry end guard

Rack Hardware

Levelling plate 1.5mm
Beam Clip
Dynabolts: 12 x 75mm

Pallet racking must installed level on a strong concrete floor. Racks must be installed level – front to back and side to side. For an uneven floor, use steel levelling plates to ensure level installation.

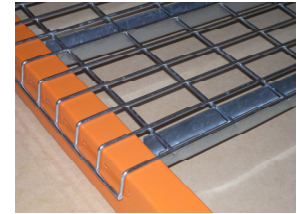
Every baseplate must be fixed with two dynabolts per baseplate.

12 x 75mm dynabolts are normally used. Longer dynabolts may be required where levelling plates are fitted under the baseplates.

Shelving Accessories

Wire mesh decks

1270mm long x 840mm deep (a)	1000kg UDL / deck
1350mm long x 840mm deep (b)	1000kg UDL / deck
1270mm long x 1220mm deep (a)	1000kg UDL / deck
1350mm long x 1220mm deep (b)	1000kg UDL / deck



(a): For 2591mm wide bays: 2 decks per level.

(b): For 2743mm wide bays: 2 decks per level.

Particleboard shelving

	Shelf load (UDL)
1800mm long x 838mm deep x 18mm	240Kg
2400mm long x 838mm deep x 18mm	320Kg
2570mm long x 838mm deep x 18mm	350Kg
2700mm long x 838mm deep x 18mm	360Kg
2570mm long x 838mm deep x 25mm	500Kg
2700mm long x 838mm deep x 25mm	520Kg
Particleboard retainer clips	



UDL: Uniformly distributed load.

Particleboard is subject to deflection. Use support bars (see below) to limit deflection and increase board loads.

Shelf support bars

840mm
1220mm

Generally used with 18mm particleboard to limit deflection.

Approx. guide: 200Kg per support bar (840mm)

150Kg per support bar (1220mm)

Support bars have a folded retaining lip to hold board in place.



Hose hangers

Hose hanger, pipe: 700mm x 50mm

