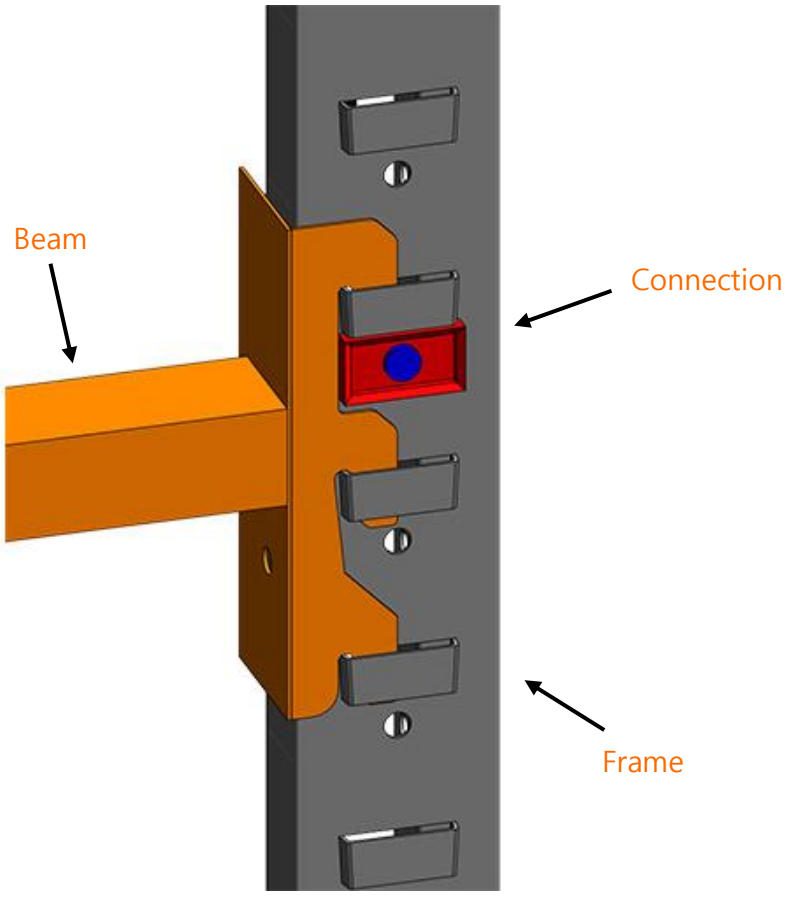
Guide for Measuring Pallet Racking

As part of the quote process we offer free site visits. However there are times where you don't need a visit and you can measure everything required yourself. We have created this guide for measuring to help you understand what you need to ask for.

STEP1 - Identify your pallet racking!

It may seem obvious but if you already have a system in place that you want to match to, you need to be sure that you are getting the same system – they need to be compatible with each other!

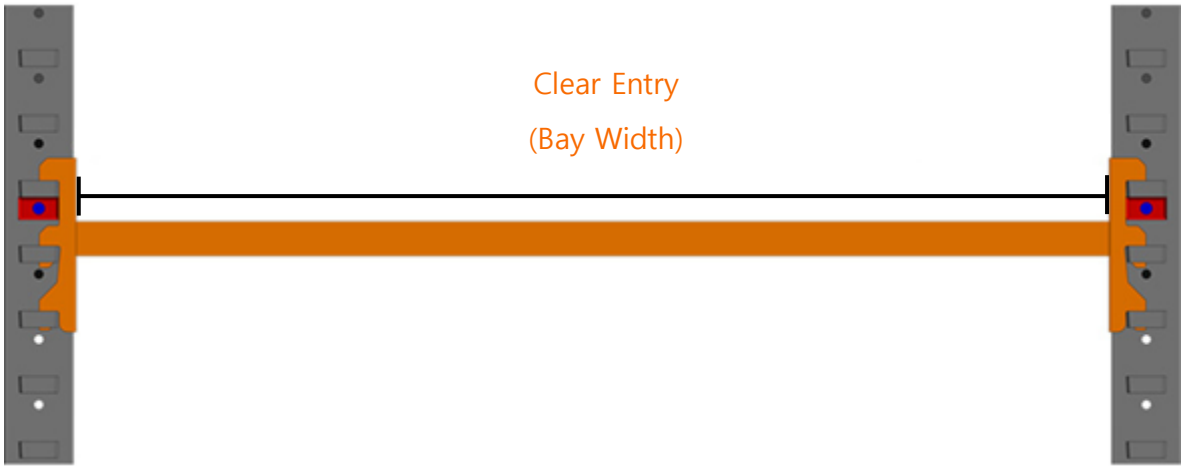
The best way to do this is to visit our racking identifier section of the website. Alternatively you can send us an email with a photograph of the racking and showing how the beam connects to the frame.



STEP 2 – Measuring a Beam

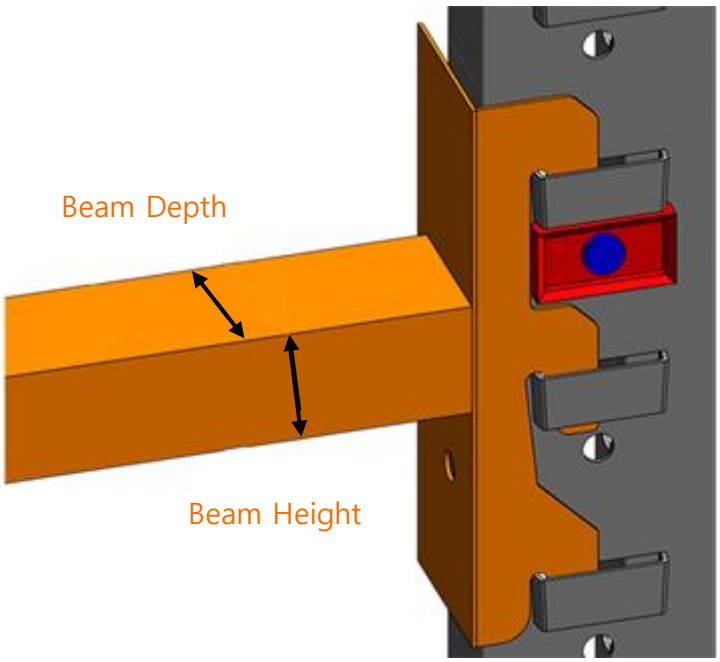
The beam width is also known as 'clear entry' or 'bay width'. This is generally measured from the inside of the upright to the inside of the upright.

Images courtesy of https://www.sec-online.co.uk/warehouse-storage-solutions



If you are getting a new pallet racking system, your bay width will primarily be decided by your pallet size.
The most common sizes we see are 2700mm and 3300mm but they can be any size you require.

Beams are designed to take various loads, this is why it is important that you know what kind of weight you will be storing on the beam. This is often referred to as 'Safe Working Load' (SWL) or 'Universally Distributed Load' (UDL). This is measured as the total load per pair of beams For example if you have 2 pallets per beam that each way 1000kgs your SWL/UDL will be 2000kgs. The best way to measure a beam duty is to measure the height and depth of the beam.

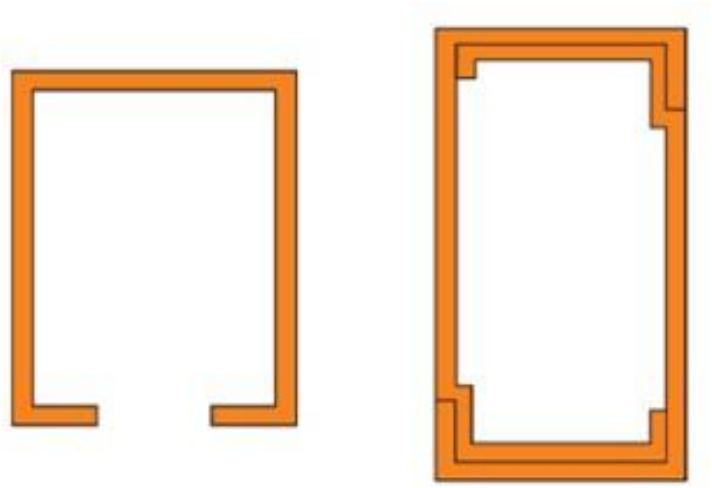


Images courtesy of https://www.sec-online.co.uk/warehouse-storage-solutions

- **Height** is the measurement of the front face of the beam.

- **Depth** is the measurement of the top of the beam (the section that the pallet sits on)

- **Plus**, we'll need to know if this is a "box section" or "open section" – see the image below!



Open Beam Box Beam

Beam duty can be from as little as 50kgs up to in excess of 5,000kgs UDL/SWL!

STEP 3 – Measuring a Frame

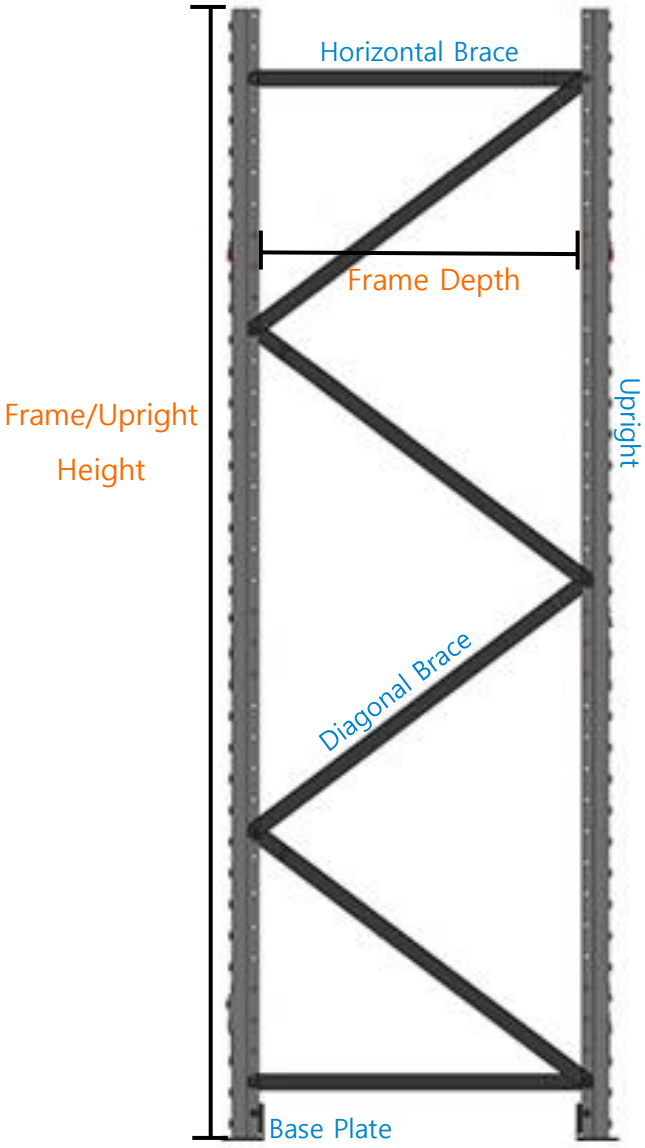
Pallet racking frames are made up of 2 uprights and bracing. The beam is then connected to the frame and held in place by a locking pin.

The frame height is measured from the top of the frame to the base plate (which is what the frame sits on). This is measured from the outside of the post to the outside of the post.

The frame depth is determined by the pallets used and the SEMA guidelines for a pallet overhang.

We also may need to know the upright/post duty. This is dependent to the load being stored on the beams and how many beam levels you have and thre height of the first beam level.

Images courtesy of https://www.sec-online.co.uk/warehouse-storage-solutions

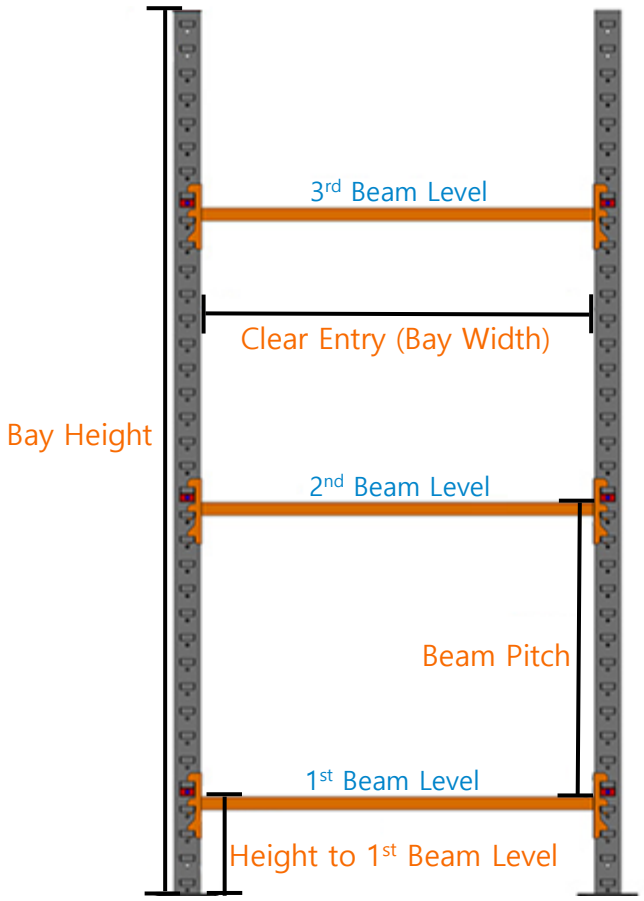


STEP 4 – Configuration of a Bay

Once we know all of this information we may also need to know the beam configuration. The duty of the frame is dependent on the duty of the beams and how many beam levels per bay.

Bays of racking generally consist of two frames and a number of beams levels. We will need to know the beam pitch/height of each level which can be determined by a number of factors such as, how many items you are storing, what material handling equipment you are using, the size of the products you are storing etc.

Images courtesy of https://www.sec-online.co.uk/warehouse-storage-solutions



STEP 5 – Pallet Racking Configuration

Starting from 1 single bay , you configure your pallet racking however you wish (within reason of course!). You can keep adding on bays to make it whatever length you want – as long as it still fits in the space! You can also put the racking back to back so you can access each side (double faced run).

Starter Bay - Consists of 2 frames and X amount of beams (dependent on the amount of beam levels you require)
Add-On Bay – This consists of 1 frame and X amount of beams (the same amount of beams as there is on the starter bay)

Images courtesy of https://www.sec-online.co.uk/warehouse-storage-solutions

Single Bay of Pallet Racking with 3 Beam Levels

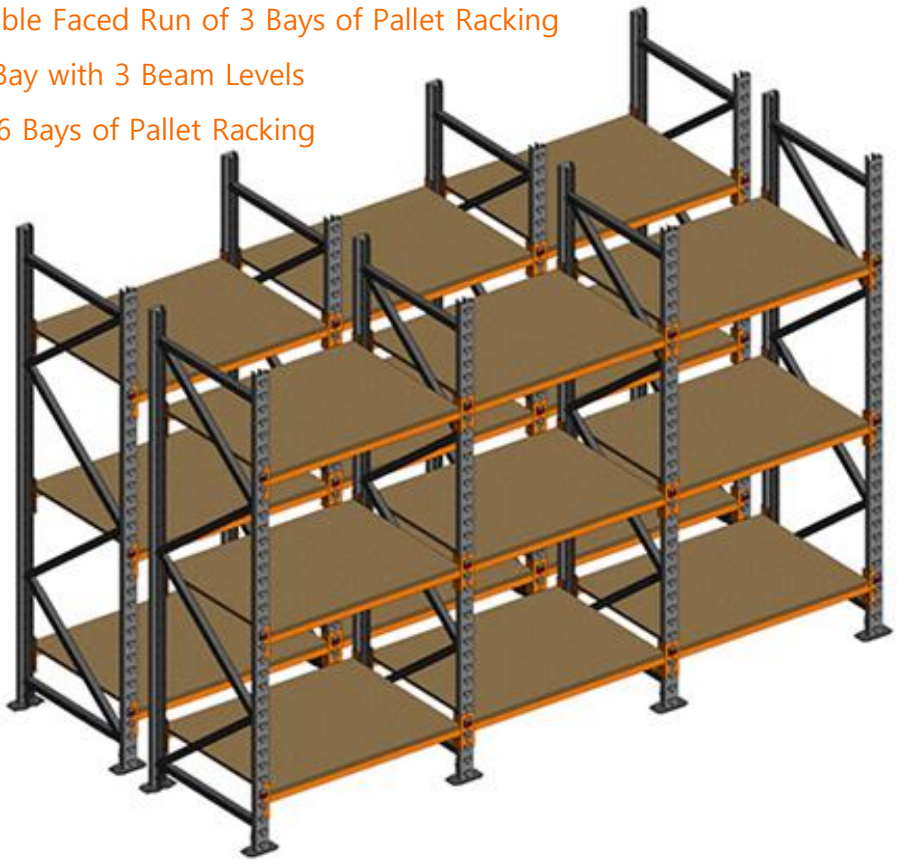
1 Single Faced Run of 3 Bays of Pallet Racking
Each Bay with 3 Beam Levels
Total 3 Bays of Pallet Racking

Images courtesy of https://www.sec-online.co.uk/warehouse-storage-solutions

1 Double Faced Run of 3 Bays of Pallet Racking

Each Bay with 3 Beam Levels

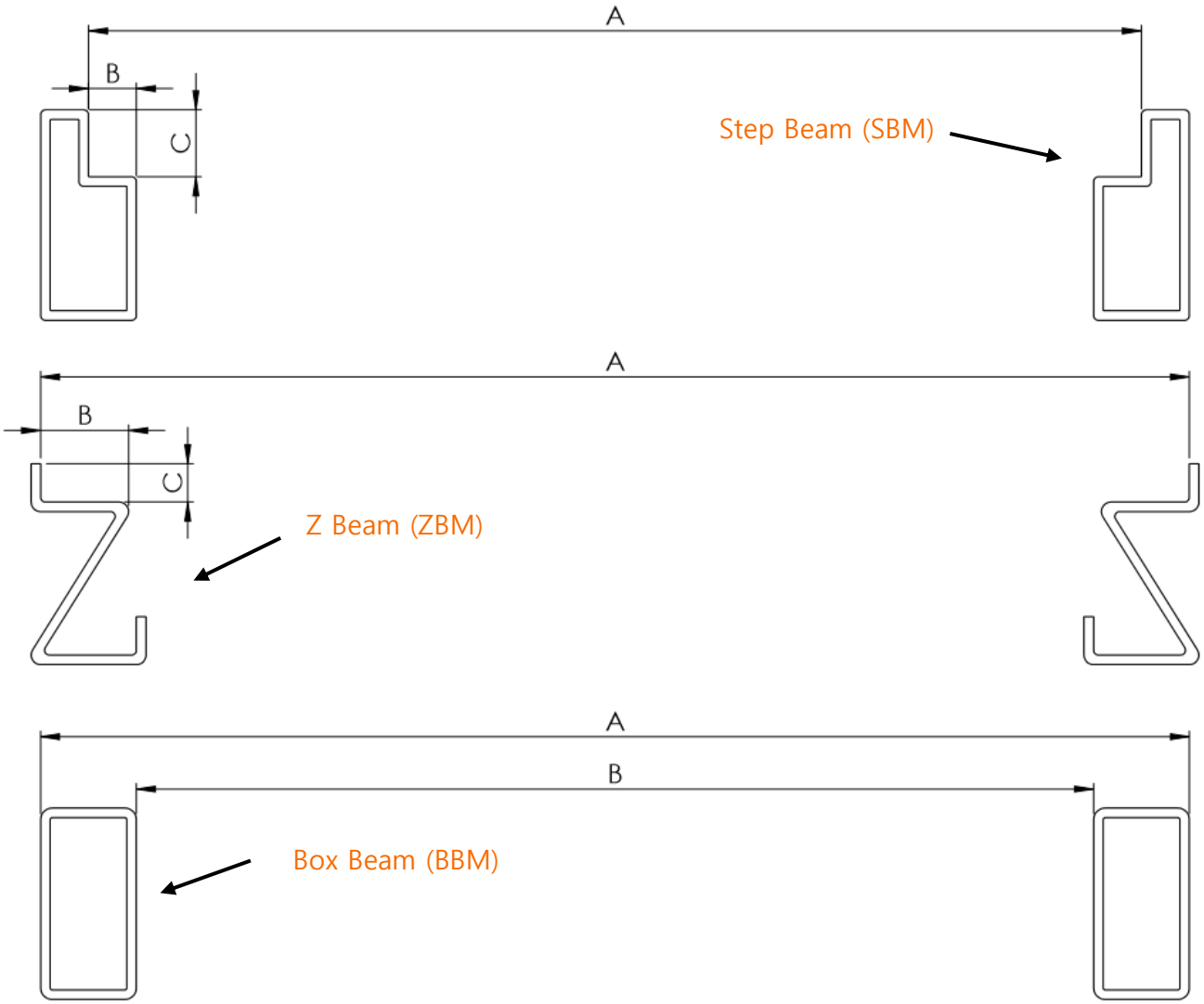
Total 6 Bays of Pallet Racking



If you are still having trouble measuring your pallet racking, please don't hesitate to get in touch with us as we are always happy to help! Visit our contact page to get in touch or call us on 0800 345 7088 or email sales@advanced-handling.co.uk

Images courtesy of https://www.sec-online.co.uk/warehouse-storage-solutions

Guide for Measuring Decking



Just tell us what type of beam you have and the measurements A, B and C... that's really all we need!

Images courtesy of https://www.sec-online.co.uk/warehouse-storage-solutions