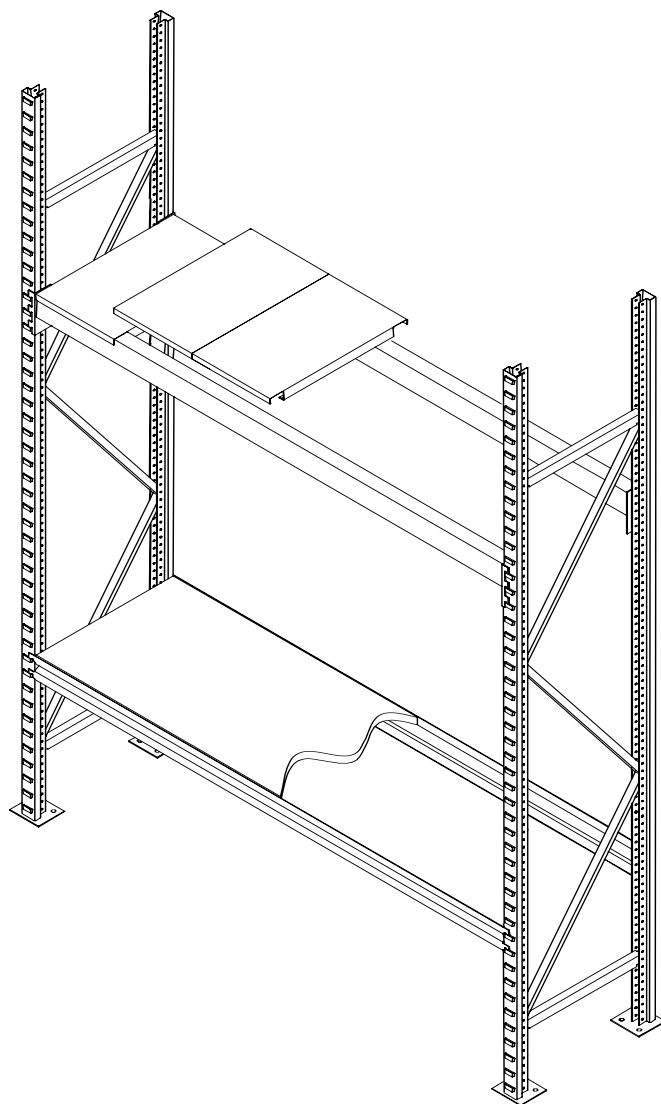


Assembly Instructions**LONGSPAN SHELVING**

These instructions are designed to give an easy, step by step guide to assembling Longspan shelving in a logical safe manner.

Please read thoroughly before starting work, as good planning will help to make assembly easier.

If there is any doubt concerning any aspect of the installation, please refer to your supplier before assembly or loading.



Longspan Adjustable Shelving

Assembly Instructions**APEX LONGSPAN SHELVING****SITE REQUIREMENTS**

The proposed site should be indoors and have a reasonably level floor. (Small local variations may be accommodated by the use of levelling shims).

The floor material must be a suitable solid concrete floor.

TOOLS REQUIRED

- | | |
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| <ul style="list-style-type: none"> • Spirit level • Plumb line • Tape measure • Soft faced mallet (or hammer & block of wood) • Hammer drill • 10Ø masonry drill | <ul style="list-style-type: none"> • Suitable eye protection • Suitable protective head gear • 2 sets of steps for installing end frames and beams below 3m in height • Suitable lifting platform, with safety cage for installing end frames and beams above 3m high. |
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PLANNING

Sort out all the major components that are required for your bay of shelving i.e. frames and beams. The beams are available in two different types, a 'Z' type profile and a 'U' type profile. The 'Z' type profile is designed to accommodate chipboard shelves, whilst the 'U' type profile is designed to accept steel decking type shelving. It is advisable to wear suitable protective head gear throughout the assembly procedure.

To have adequate rigidity and safety, each bay must have a minimum of two beam levels each.

- STEP 1. Pre-assembled end frames will be raised into position with beams being fitted at appropriate levels. Generally smaller low rise installations (below 3m) can be raised manually, whilst taller installations (above 3m) will need the assistance of specialist lifting equipment. Stand end frames upright and hold in position, locate the beams in the upright slots, ensuring that the beams are level. There must be at least two beam levels per bay. The height between beam levels **MUST NOT EXCEED 1500mm**.
- STEP 2. The additional bays of shelving consist of an end frame and beams, these are assembled as before and added on to the previous bay, Fig. 1.
- STEP 3. Ensure that all beams are level and securely located in the upright slots. Having correctly positioned the beams, use a soft faced hammer or a block of wood and a hammer to knock down the beams until the hooks are fully engaged in the slots of the upright, Fig. 2.
- STEP 4. The installation must be checked with a spirit level in the horizontal plane. The uprights must be checked using a plumb line in the vertical plane, ensuring that the uprights are vertical to within a tolerance of 1 in 200 i.e. out of plumb by 1mm for every 200mm in height, Fig. 3. Additional levelling shims may be added under the baseplates to level the bay.
- STEP 5. If the height to width ratio of the shelving exceeds 6 to 1, all baseplates must be anchored to a suitable solid concrete floor. With one each 10mmØ x 90mm anchor bolts, i.e a bay 600mm deep must not exceed a height of 3600mm (6x600mm), without suitable floor fixings. The minimum floor penetration **MUST NOT BE LESS THAN 45mm**. It is recommended that suitable eye protection is used when any drilling is undertaken.
- STEP 6. Fit the appropriate type of shelving. The chipboard shelving locates between the upright lips of the 'Z' type beams, Fig. 4, and the steel decking locates over the 'U' type beams, Fig. 5.
- STEP 7. Clean-down. The steel shelves may require to be wiped down to remove any oil residue.

Assembly Instructions

APEX LONGSPAN SHELVING

