

VHC243HT - Grade 14 Hospital Tip Hinges.

Step 1. - Mark out around the leaf of the hinge with a pencil.

For setting out the upper hinge should typically be 175mm for the top edge of the door, for the lower hinge this should be 250mm from the bottom edge of the door. On heavier door applications a third hinge may be required, these should be fitted equidistant from the top and bottom hinges. All hinges should be cut equally into the edge of the door.

Wedge the door into the opening of the frame, with wedges tapped in to raise the door to set the correct floor clearance, clearly mark (with pencil) the hinge positions on both the door and the frame.

Set the door on edge, hinge face should be to the top, open one hinge and with the knuckle projection from the edge of the door, align hinge with the pencil marks and draw round the leaf with a pencil. **For hospital tip hinges when marking out ensure that the knuckle is as close to the door edge as possible.**

Step 2. - Cutting out of the hinges.

Using a sharp chisel make a series of shallow cuts (to same depth as hinge thickness, 3mm), across the grain. Care should be taken not to cut recess to a depth exceeding 3mm hinge thickness.

Pare out the waste at the positions marked out, making sure to keep to the depth of the leaf at all times. This process should be repeated for top and bottom positions and if required for a third hinge.

Placing a hinge into the recess, drill pilot holes for the screws and then fix the hinges with screws provided, care should be taken not to overtighten screws.

Step 3. - Marking out & cutting the frame.

Wedge the door into the frame in the open position, aligning the free hinge leaf(s) with the marks created earlier on the door frame.

Make sure hinge knuckles run parallel to the door frame. **For hospital tip hinges when marking out ensure that the knuckle is as close to the frame edge as possible.** Trace the leaf onto the frame and remove waste as detailed in Step 2.

Step 4. - Hanging the door & adjusting.

Hang the door using only one screw in each leaf & check operation of door closes smoothly. If the leading edge rubs against the frame it may be necessary to deepen the recess of one or more of the hinges. If the door strains on the hinge edge then the recesses could be too deep, this is referred to as hinge bound. It may be necessary to insert thin cardboard packers under the hinge leaves to pack them out.

When the door is found to be operating correctly fit the remaining screws.

General Maintenance / Operational Notes.

Our guarantee is based on a standard 3 hinges fitted to a doorset, as is the most common method of fixings. This is based upon 160kg max. weight door which is tested to 200,000 cycles in accordance with BS EN 1935:2002.

Fitting configurations may need to be adapted based on door size, door weight and or door hardware.

It is recommended that routine maintenance is undertaken on a bi-annual basis & in areas of extreme environment or contaminants this should be increased accordingly.

As a prerequisite of compliance it is recommended to keep a log of the adopted maintenance schedule for each installation.



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