



# Royde & Tucker Hinge instruction

## HI-LOAD STEEL LIFT OFF BUTT HINGES

**MODELS:** - H086, H087, H101, H105, H107, H126

HI-LOAD lift-off hinges are designed for medium and high frequency use doors. In accordance with BS 4787, three hinges per door leaf should be fitted. HI-LOAD hinges are guaranteed against wear for a period of 25 years, provided they are correctly specified and fitted.

Model	Minimum Door Thickness	Maximum Adjusted Door Weight-3 Hinges
H086	35 mm	40 kgs
H087	35 mm	60 kgs
H101	44 mm	80 kgs
H105	44 mm	80 kgs
H107	44 mm	120 kgs
H126	44 mm	120 kgs

ADJUSTED DOOR WEIGHT CALCULATION TABLE			
Actual Door Weight +	Doors of excess width. Please refer to catalogue		= Adjusted Door Weight
	Door Closer	+20%	
	Door Closer (Backcheck)	+75%	
	Extra Heavy Use Light Use	+10% - 10%	

### FIXING INSTRUCTIONS:

Lift off hinges are left and right handed. Always fit the hinge part with the pin to the door frame, and with the pin pointing up.

- 1) Mark out and cut mortice.
- 2) Drill pilot holes, sized to suit the fixing screws and the type of frame material being screwed into.
- 3) Ensure screws are fully tightened.
- 4) No lubrication or maintenance is required.

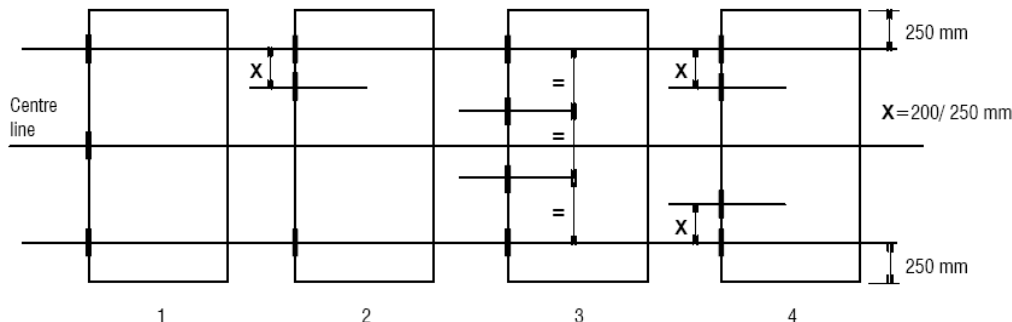
### IMPORTANT:

- a) HI-LOAD hinges are very accurately manufactured with very little clearance or play. Ensure that the hinge halves are accurately fitted both vertically and laterally, and that the axes of the pins are in line.
- b) The HI-LOAD hinge should not need painting – if it is to be painted, on no account must paint be allowed onto the bearing surfaces.
- c) The HI-LOAD hinge must not be stoved or heated.
- d) When assembling the door to the frame take care not to damage the bronze bearing.
- e) For all fire doors, the hinges should be bedded in intumescent mastic in accordance with the manufacturer's instructions.

### HINGE POSITIONING:

For maximum resistance to warping, position the hinges with equal spacing. (diag. 1 & 3)

For maximum load carrying ability, fit 2 hinges high and 1 or 2 hinges low. (diag. 2 & 4)



Bright zinc finish offers both a pleasing aesthetic and robust finish. However, it must be remembered that it is a sacrificial plating and may discolour and tarnish when exposed to adverse conditions. i.e. dampness, salt spray, wet trade pollution and certain cleaning materials.

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