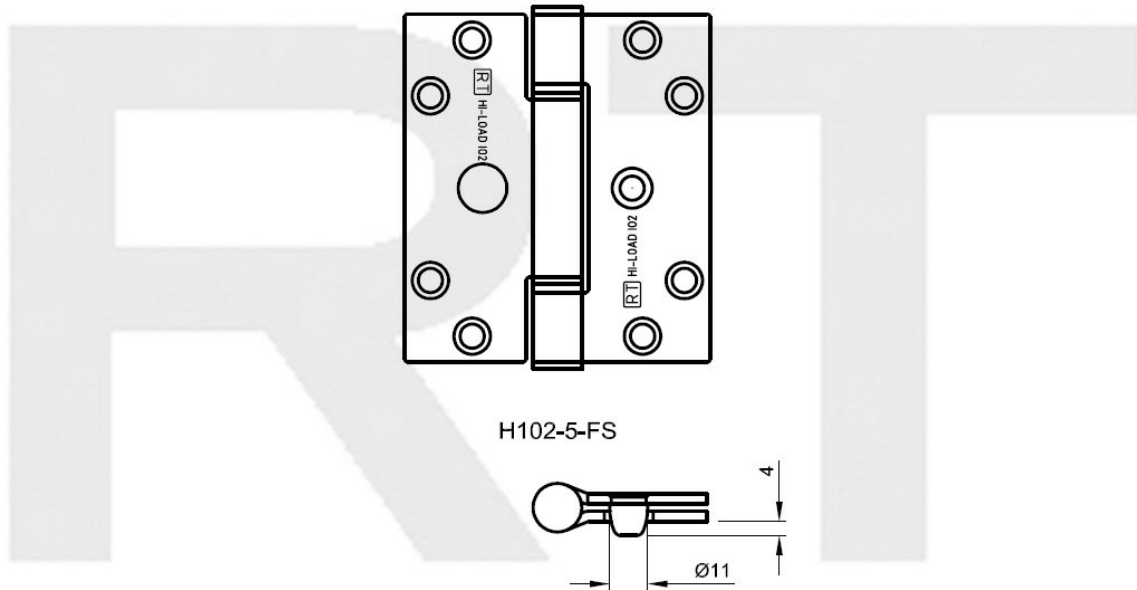


## Royde & Tucker H102-5 HI-LOAD security bolt butt hinge



BS EN 1935



- Security dog bolt version. Prevents removal of the door leaf if the hinge knuckle is attacked. Predominately used on perimeter doors where the hinge knuckle is located externally.
- 100x88x3mm Three knuckle butt hinge
- Maximum adjusted door weight 120kg
- To BS EN 1935 Grade 13
- Minimum door thickness 44mm
- Maintenance free, guaranteed for 25 years
- CE Certificate No. 2812-CPR-AC0063
- Suitable for use on fire doors: Certifire approved – CF209
- To be fitted with HP102 intumescent hinge pads, if being installed on fire doors
- c/w metric 5 x 32mm wood screws
- Unless stated Mild steel substrate, Grade 304 or 316 stainless steel available

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# Web technical product download sheet

## Royde & Tucker



### HI-LOAD BUTT HINGES - FIXED PIN/LOOSE PIN MODELS: - H100, H102, H103, H104, H106, H125, H1356, H180, H207/8/9/10

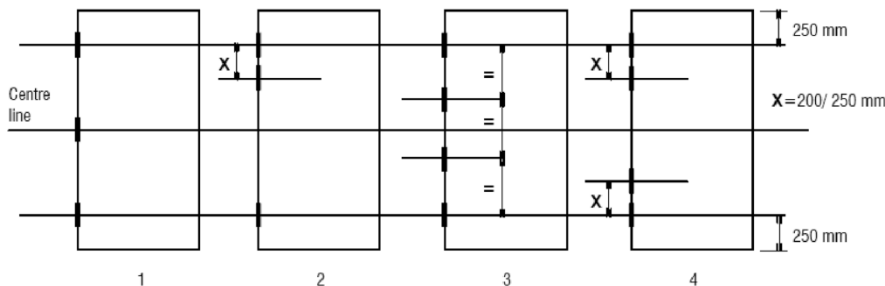
HI-LOAD hinges are designed for medium and high frequency use doors. In accordance with BS 4787, three hinges per door leaf should be fitted. HI-LOAD hinges are guaranteed against wear for a period of 25 years, provided they are correctly specified and fitted.

Model	Minimum door thickness	Max adjusted door weight 3 hinges
H100	44mm	80kg
H102	44mm	120kg
H103	44mm	80kg
H104	35mm	60kg
H106	35mm	80kg
H125	44-65mm	160kg
H1356	54mm	200kg
H180	54mm	250kg
H207	35mm	120kg
H208/9	44mm	120kg
H210	44mm	160kg
K9	44mm	120kg

Adjusted door weight calculation table			
For doors of excess width please refer to manufacturer			
		Door closer	+20%
Actual door weight +	Door closer (backcheck)	+75%	= adjusted door weight
	Extra heavy use	+10%	
	Light use	-10%	

#### 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)



1a) HI-LOAD hinges are fitted similarly to ordinary hinges.

Hinges with unequal leaf widths; the broad leaf is fitted to the frame and the narrow leaf to the door.

Where the hinges have equal leaf widths, the hinge with two knuckles is fitted to the frame and the leaf with a single knuckle to the door.

- 2) Mark out and cut mortice.
- 3) Drill pilot holes, sized to suit the fixing screws and the type of frame material being screwed into.
- 4) Ensure screws are fully tightened.
- 5) 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) For all fire doors, the hinges should be bedded in intumescent mastic in accordance with the manufacturer's instructions.

#### IMPORTANT: Loose Pin Hinges

Ensure that when the door is presented to the frame

- a) The bearing surfaces are clean.
- b) Care must be taken not to damage the bearing surfaces on assembly, and when inserting the pin.
- c) When the door is correctly hung, gently tap home the pin with a small hammer from the top and insert the blanking plug.

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