

## 3-D ADJUSTABLE HEAVY DUTY HINGES



These are a range of heavy duty 3-D adjustable hinges to suit un-rebated steel doors. The fixing lugs on the hinge portion slide into the frame box, this then offers 3mm of adjustment in three dimensions; side to side, up or down and compression. All by simply using an allen key and turning the relevant screw. This unique mounting method ensures easy installation even in the trickiest environments. Another advantage of these hinges is that manufacture of the frame and door leaf can be carried out in different locations and then easily married up on site. They have maintenance free, axial-radial, slide bearing technology for smooth operation and an internal torsion-proof pin. All hinges are CE marked in accordance with BS EN 1935: 2002. Please see DoP available on our website.

### PROJECT HINGES AND FRAME BOX TO SUIT



#### ZVX7729/160

200kg Hinge, 160mm high, Satin Stainless Steel  
Material thickness 3.5mm, knuckle diameter 22.5mm  
CE Grade 14  
(Box Qty 2)



#### ZVX7729/100

100kg Hinge, 95mm high, Satin Stainless Steel  
Material thickness 3.5mm, knuckle diameter 20mm  
CE Grade 12  
(Box Qty 10)



#### ZVX7611-3D

3-D Adjustable frame box to suit both the 160mm & 95mm hinge, welding points for steel frames  
Zinc plated  
(Box Qty 10)

DOES NOT INCLUDE FIXING SCREWS

ALL WEIGHTS SHOWN ARE BASED ON TWO HINGES PER LEAF, DOOR SIZE 2000x1000x40MM

## THREE KNUCKLE BUTT HINGES



The ZH1254 hinge is a three knuckle, fixed pin butt hinge based on a 125mm high leaf and using 3.25mm thick material which provides for increased weight loading. Around the standard ZH1254 hinge are variations for different door thicknesses and fixing positions as well as including projection hinges, electrical conductor, security dog bolt and pivot reinforced hinges. Please call for details.

The standard hinge measures 125mm x 93mm x 3.25mm. It has been tested to BS EN 1935 Grade 12, maximum adjusted door weight 160kg. The recommended minimum door thickness is 44mm. CE Certificate No. 1121-CPD-AC0064. These hinges are suitable for use on fire doors: Certifire approved - CF209. Please see DoP available on our website.

#### ZH1254.FR.SZP

160kg Hinge, 125mm x 93mm x 3.25mm  
Satin zinc plated steel, fixed pin  
Radiused corners R10  
Woodscrews included  
(Box Qty 3)



## INDEPENDENT HINGE BOLTS

Where additional security is required for external doors opening outwards, hinges are usually supplied with integral security studs. Please see page 112 for hinges with security studs for use on new build projects. The security studs help prevent forced entry by stopping doors being levered out of frames even if the hinge pins have been driven out.

Where doors have already been fitted with standard hinges without security studs, it is possible to fit independent hinge bolts - these are sometimes referred to as "dog bolts". These are designed for use on timber doors, but can also be used on steel doors. However on steel doors it will be necessary to weld the hinge bolts in place. The hinge bolts should be fitted 75mm below the top hinge and 75mm above the bottom hinge. The bolts should be fitted in the door and the receiver plates fitted to the frame. They are manufactured from mild steel which is then bright zinc plated. They are supplied in pairs with two hinge bolts and two receiver plates packed together with screws for timber doors.

#### Z470

Independent hinge bolts  
Bright zinc plated  
(Box Qty 10)

