



## Shrouded Double Swing Hinge

### Installation Guide

#### Fixing Pack Includes:

- 34nr Security Timber Screws
- 34nr Security Metal Screws
- T20 driver bit
- Drill alignment tool

#### Tools Required:

- Electric Drill/Driver
- 3mm Drill Bit (preferably an extra-long bit)
- Plumb line or level
- Chop saw with aluminium blade.

#### NOTE:

Hipac can take no responsibility for incorrect operation of Hinges that are not fitted as per directed in these instructions.

Before the fitment of any Hipac hinge, the frame needs to be checked to ensure it is square and true using a plumb line or level. If the frame is not square, the hinge may be stiff in operation or squeak. Hipac offers a cutting service if required. When fitting to a metal frame ensure minimum 2mm material or sufficient reinforcement for screw fixing. Contact us for more information.

1. Cut the hinge down to length. We suggest a gap of 0.5mm from the top of the hinge to the frame. This should be cut down using a chop saw fitted with an aluminium blade. When cutting the hinge, make sure the bearings won't be cut into. If there is a chance of cutting into the bearings, then cut sections from each end of the hinge. Once the hinge has been cut to size, check the intumescent is still in place and for any metal shavings that could prevent the hinge from operating.
2. Position the door face down, on the leading edge.
3. If the job is retrofit, then the door will need to machining to size. The hinge is 63mm wide, this needs to be considered when calculating the required door width.

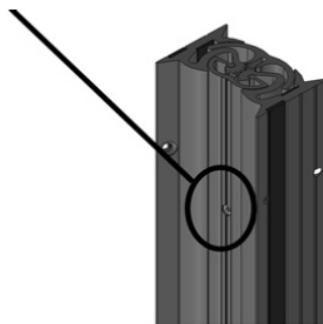
Example:

Opening door width: 929mm, Door clearance: 3mm, hinge width: 63mm.

Door width = Opening width - door clearance - hinge width

Door width = 929mm - 3mm - 63mm = 863mm

4. Now position the hinge leaf on the centre of the hanging stile of the door. If used in a bedroom application, the visible fixings in the hinge shroud should be on the corridor side.



#### Note:

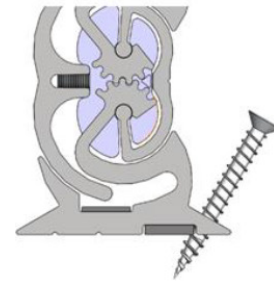
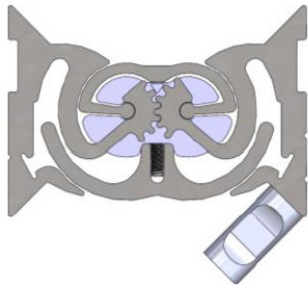
In a mental health application, the top of the hinge needs to be less than 0.5mm from the frame header. This means that if the aim is a 3mm gap from the top of the door to the frame header, the hinge needs to overhang the top of the door by 2.5mm to 3mm.



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### Fitting Instructions

5. Once happy, with the positioning of the hinge on the door, using the drill alignment tool (see below), drill 6 pilot holes, one at each side, at the top, bottom and centre using a 3mm drill bit. The pilot hole should be square with the hinge face as shown below. If the 3mm bore is tight on the alignment tool, drill the inner bore out with the 3mm drill prior to use.



6. Using the supplied security Torx, No.8 screws fix the hinge through the 6 pilot holes using a long T20 security bit ensuring the torque setting on the driver set is low. The screw heads should sit flush with the hinge surface. If the screw head is going to hit the body, stop and re-drill.
7. Now the hinge is fixed, check the positioning of the hinge is central and straight. Swing the hinge from one side to the other, this should be a free movement with no tight spots. If not, the hinge is not sat correctly on the door and needs re-fitting using different fixing holes in the hinge.
8. Pilot drill all the other holes in the door using the drill alignment tool ensuring they're square with the hinge face. See point 6. Then fit all remaining door screws.
9. Use packers to position the hinge on the frame jamb. This needs to suit the door stop opposite if one is being used.
10. Position the hinge leaf on the frame with the visible fixings in the hinge shroud facing towards the corridor side. See step 5. The hinge should be within 0.5mm of the frame head in mental health applications.
11. Once the hinge is positioned on the frame, drill 2 pilot holes, using the drill alignment tool (one at each side) at the top, bottom and centre using a 3mm drill bit. The pilot hole should be square with the hinge face, see step 6.
12. Open the door into the corridor to fix the bedroom side frame fixings.
13. Open the door into the bedroom to fix the corridor side frame fixings.
14. The door should swing freely and should clear the frame and floor.
15. Drill the remaining pilot holes in the frame using the drill alignment tool.
16. Fit all the remaining fixings in the frame, using a low torque setting on the driver. Ensure all screw heads sit flush.
17. Do a final check on the hinge operation, it should swing freely 90 degrees in both directions.

### ABOUT HIPAC

At Hipac, we want the same thing as our clients – an environment where healthcare professionals can work productively, safely and efficiently to achieve the best possible patient outcomes. We work closely with our customers and partners to design, manufacture and supply superior products. With almost 40 years of experience, Hipac has the expertise to deliver premium solutions along with competent, trustworthy advice.

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