

Continuous Hinge FM 300/344

IMPORTANT NOTE –

- All holes in door and frame must be prepped as per these instructions it is the responsibility of the installer to choose the correct fixings for the door material.
- The Universal Screw Pack contains sheet metal, machine and self-drilling Tek screws. This allows three different installation options. If installing a wood or non-reinforced hollow metal door, follow option (A) in the instructions. Follow option (B) if the door is reinforced or at least 1/8" thick. If you use the self-drilling Tek screws (recommended for grouting frames), follow option (C) If the grout is hard, drilling a pilot hole can help.
- Every step of these instructions should be followed unless specifically labelled (A), (B) or (C).
- The FM300 & FM344 hinge is suitable for use on doorsets that have achieved 60 or 30 minutes integrity respectively and where applicable, insulation when tested by a UKAS approved laboratory to EN 1634-1:2000. Alternatively the doorset should meet the requirements of a FD60 or FD 30 doorset as defined in Approved Document B to the Building Regulations.

The following minimum specification should be followed: -

- Leaf to frame clearance gaps not to exceed 2.5mm average and 3mm maximum.
- Door leaf thickness – 44mm minimum (30 minutes), 53mm minimum (60 minutes).

The following intumescent protection **must** be applied to each blade of the hinge in fire door applications and can be purchased through Adams Rite Europe Ltd: -

- FM300 – 50 x 1mm 'Pyrohinge 300isa' material (product code: 3001SA-44)
- FM344 – 44 x 1mm 'Pyrohinge 300isa' material (product code: 3001SA-50)

- 1) Cut hinge to custom length if required, see Fig 3 over page.
- 2) Place hinge on frame as shown in fig 1; allow 3.2mm between top of hinge and underside of header & 1.6mm between stop and edge of hinge.
- 3) Using the hinge as a template mark all hole locations on frame.
- 4) Centre punch each hole.
- 5) (A) & (B) – Drill all holes using a 6.3mm bit.
- 6) (B) – Tap holes for a 10–24 thread.
- 7) Place hinge on edge of door being careful to line up with top and back edges of door.
- 8) Repeat steps 2, 3 & 4.
- 9) (A) – Attach the hinge to the door with No.10 x 1 ¼" flat head undercut sheet metal screws OR
(B) – Tap the holes for a 10-24 thread. Attach the hinge to the door with 10/24 flat head undercut machine screws OR
(C) – Attach the hinge to the door with No. 10 x ½" flat head undercut self-drilling Tek screws.
- 10) Attach the hinge to the frame using
 - (A) – No.10 x 1 ¼" flat head undercut sheet metal screws OR
 - (B) – 10-24 flat head undercut machine screws OR
 - (C) – self drilling Tek screws
- 11) Close the door and check for proper alignment, adjusting as required.

Maintenance Instructions

- This Adams Rite hinge is self lubricating therefore requires no lubrication on installation or during its life cycle.
- The performance of a hinge is imperative to the continued operation of a door, this is particularly important on fire doors/ escape routes.
- Adams Rite recommend that hinges are inspected regularly to check fastenings are secure and have no unusual wear characteristics, this should be done at least bi annually however this may need to be increased depending on the application.

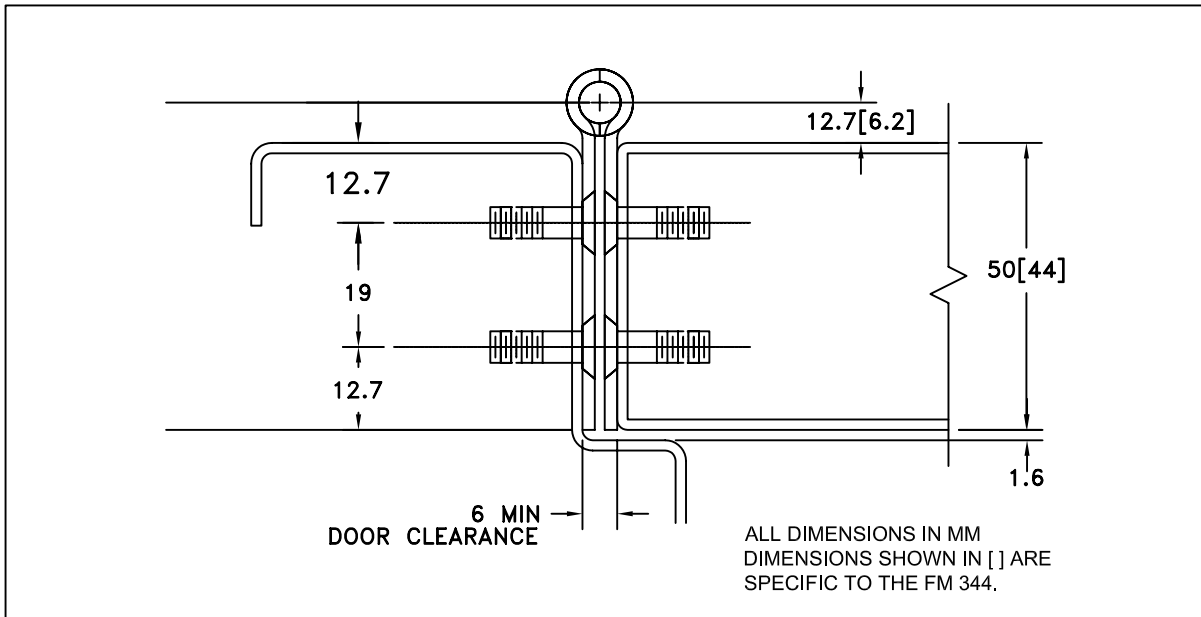


Figure 1: Hinge Placement & Clearance Template

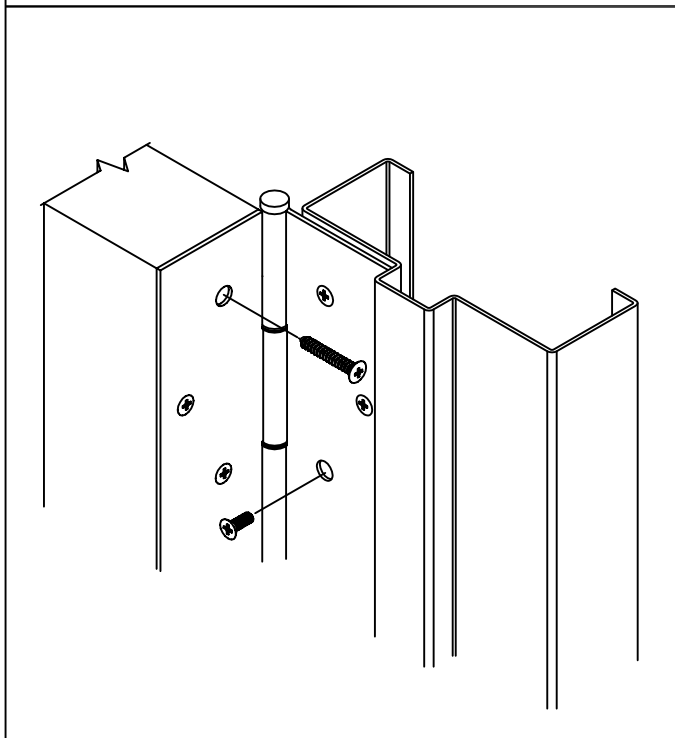
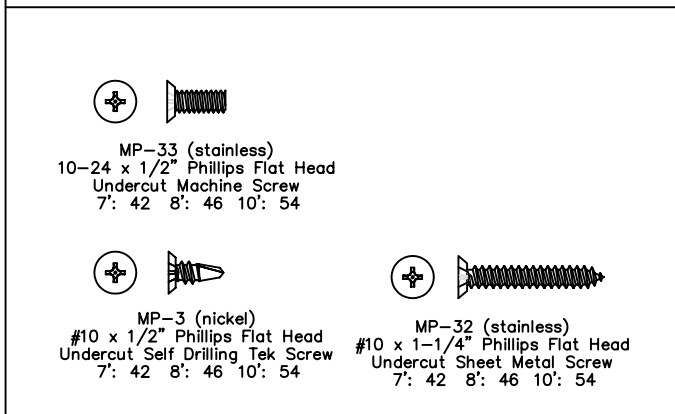


Figure 2: Installation (Exploded View)



UNIVERSAL SCREW PACK

CUTTING HINGES TO CUSTOM LENGTHS PIN & BARREL HINGES

- ① The following instructions apply to Adams Rite stainless steel pin and barrel hinges.
- ② Determine the amount that the hinge needs to be shortened. Note the hand of the hinge before beginning to lay out your cut. All cuts will be done at the bottom of your hinge assembly making sure to leave the gang hole pattern at the top.
- ③ Measure from the top down and scribe a cut line on your leaf at the desired length. It is recommended that the cut is made at the 1st available knuckle.
- ④ Cut the hinge to length with a hacksaw, going through the leaf, barrel and pin. If necessary, use a file to remove sharp edges and deburr.
- ⑤ Slide the stainless steel pin out approximately 25mm making sure the assembly stays together as one unit. Remove approximately 6mm from the end of the pin using a hacksaw and then push back into its original position.
- ⑥ Using a pair of vice-grips, crimp the end of the steel barrel making sure the hinge pin will not slide out.

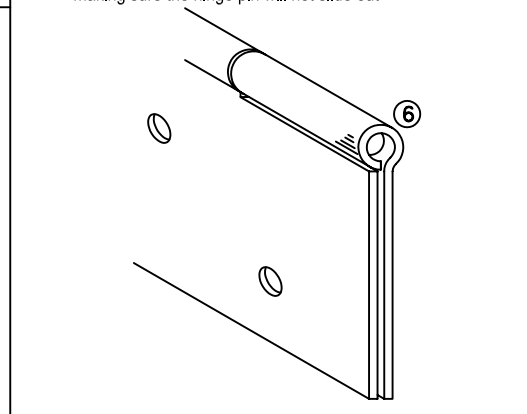


Figure 3