

Notes:

- Not following install instructions may void the manufacturer's guarantee.
- Full Surface units are designed mainly for retrofit work. They are applied to the exposed surface of the door and frame with clearances shown in Figures A & B (below).

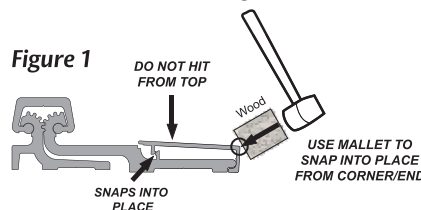
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1. Position the frame leaf of the hinge on the face of the frame in the open position.
 - a) Fit all hinge segments together by sliding the extended hinge cap over hinge gears as shown in Figure C (below).
 - b) Allow 1/8" clearance between top of the hinge and frame header for proper door head clearance.
2. Mark and drill frame for #12-24 screws, per Drill Size Chart (below).
3. Attach frame leaf to frame. (Use wax or soap on screws to aid installation.)
4. Position the door in the opening; shim to adjust for proper clearance (See Figures A and B).
5. Install the six (6) #12-24 x 3/4" self drill/tapping screws in the six (6) 7/32" holes located in the door leaf portion of the hinge.
6. Remove shims and open the door.
 - a) Check for proper swing and clearances.
 - b) Adjust if required.
7. Close the door.
8. Mark the centers of the remaining holes.
9. Drill holes all the way through the door using a 1/4" diameter drill.
10. Open the door.
11. Enlarge the 1/4" holes on the inside face of the door using a 3/8" diameter drill.
12. Finish attaching door leaf portion of hinge to the face of the door using the four (4) thru-bolts and shoulder bolts.

NOTE: Thru-bolts attach from hinge side of door; shoulder bolts attach from non-hinge side of door.

13. Secure snap cover:
 - a) Adjust top of cover so it is flush with top of hinge.
 - b) Hook the edge away from hinge gears under the door leaf.
 - c) Snap the other edge over by using a rubber mallet on far side, working from top to bottom. (See Figure 1)

Figure 1



NOTE: Special Firepins are required on 3 hour (A-Label) assemblies. (See reverse side for instructions).

DRILL SIZE CHART:

MATERIAL	THICKNESS	DRILL SIZE
Aluminum	.090 - .140	13
Metal	20 gauge	17*
Metal	16-18 gauge	15*
Metal	12-14 gauge	13*
Wood	N/A	5/32"

*Although self drilling screws are provided, pre-drilling is recommended.

SHORTENING THE HINGE:

If the hinge must be shortened, cut the bottom only using a chop saw. This will allow metal chips to work out after the installation.

NOTE: Although it is not handed, the hinge becomes handed after cutting, and the cut edge must be installed at the bottom of the opening.

FIGURE A

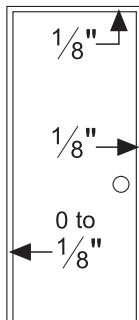


FIGURE B

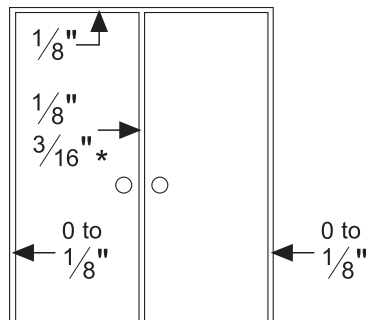
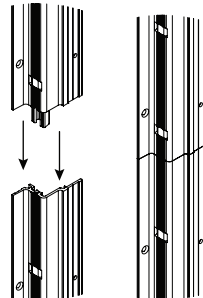


FIGURE C



* Allow extra clearance as required per astragal manufacturer. Certain door and frame conditions may require an extra 1/32"-1/16" clearance. Excessive clearance on fire rated assemblies may violate the requirements of NFPA 80.

Tools Required



PemKonnnect™ Modular Hinge

_FS83-M

Full Surface Modular Hinge

UL Ratings



Aluminum continuous hinge for use on swinging type fire doors of the hollow metal, tin-clad, sheet metal and steel covered composite type rated up to 3 hours, wood covered composite type rated up to and including 1-1/2 hours. Also wood core rated up to and including 20 minutes without hose stream. Meet criteria of UBC 7.2 for positive pressure.

MEMPHIS, TN USA
P: 800 824-3018
F: 800 243-3656

VANCOUVER, BC CA
P: 877 535-7888
F: 877 535-7444

VENTURA, CA USA
P: 800 283-9988
F: 800 283-4050

TORONTO, ON CA
P: 877 535-7888
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FIRE PINS ARE REQUIRED ON 3 HOUR RATED DOORS ONLY

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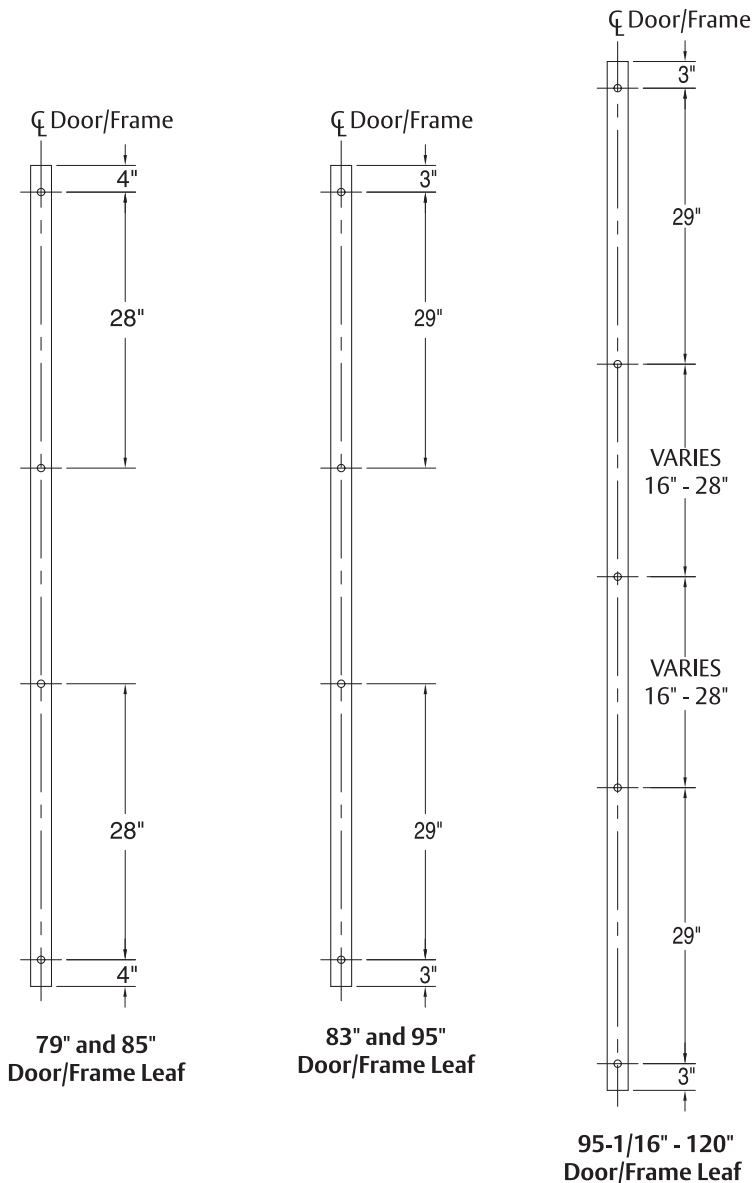
Prior to Installation

Install PemKonnnect™ Modular Hinge on door and frame prior to locating pins.

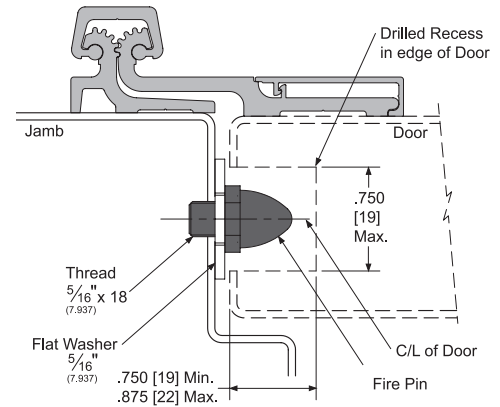
Pin Installation

- Drill and tap for 5/16" x 18 threads in frame as indicated on template.
- Insert fire pins in threaded holes.
- Drill 3/4" dia. hole 5/8" to 3/4" deep in edge of door where indicated on template.

Hinge Pin Locations for Full Mortise Hinges



INSTALLED FIREPIN

MEMPHIS, TN USA
P: 800 824-3018
F: 800 243-3656VANCOUVER, BC CA
P: 877 535-7888
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