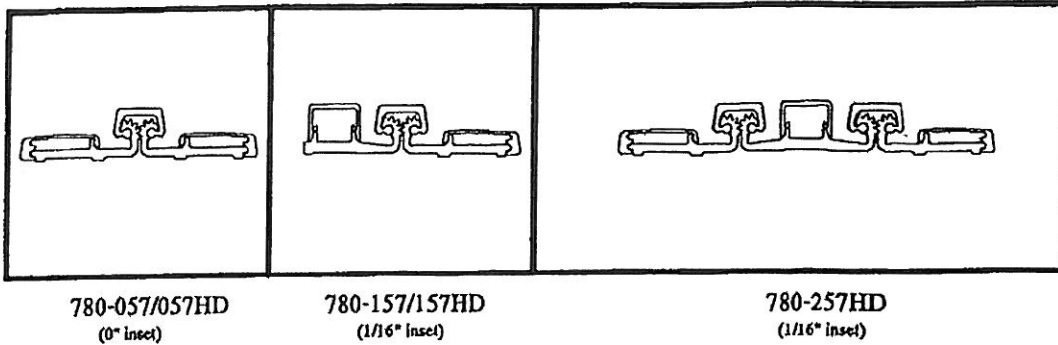


Installation Instructions for ROTON U.L. Fire-Rated Hinge Studs

Models 780-057, 780-057HD (0" inset), 780-157, 780-157HD and 780-257HD (1/16" inset) are full-surface hinge models. Use the following instructions when installing any of these hinges.



The fire-rated hinge fastener package contains four (4) stainless steel studs.
To comply with U.L. requirements, all four (4) studs must be used.

1. Install the hinge in accordance with the standard installation instructions for each model, allowing a 1/16" door-to-frame gap.
2. On the door leaf, drill a 7/8" dia. hole in the center of the door edge, using the chart below to locate the holes. **The measurements are from the top of the hinge to the centerline of the first hole. The second, third and fourth holes are measured from centerline to centerline.**

Hinge Length	79"	83"	85"	95"	119"
Hole #1	13-9/16"	13-9/16"	13-9/16"	13-9/16"	13-9/16"
Hole #2	15-1/8"	15-1/8"	15-1/8"	21-1/4"	25-3/8"
Hole #3	21-5/8"	25-5/8"	27-5/8"	25-3/8"	41-1/8"
Hole #4	15-1/8"	15-1/8"	15-1/8"	21-1/4"	25-3/8"

3. **Using the face of the frame as the reference point to locate the holes,** drill and tap four (4) holes in the frame rabbet in the same locations shown above for the 12-24 studs, using the chart below. The location of the drilled and tapped hole is based on the inset plus one-half of the door thickness. This chart is for use with 1-3/4" thick doors. For any other door thickness, please consult the sales office for dimensioning information.

0" inset hinge models	Drill holes	7/8"	in from the frame face
1/16" inset hinge models	Drill holes	15/16"	in from the frame face

4. Insert one stud into each of the four (4) frame holes drilled in 3.) above. Tighten securely.
5. Close the door slowly to assure that the studs are properly aligned. Any interference can be cleaned up with a "rat-tail" file.

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