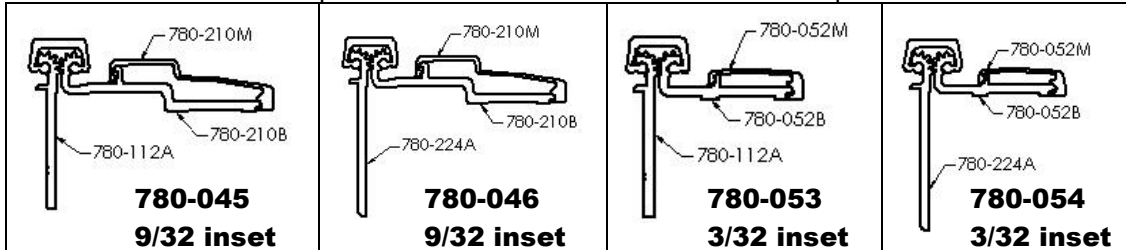


ROTON Hinge U.L. Fire-Rated Studs – 780-045, -046, -053, -054

These instructions outline how to install the optional stainless steel studs (4) for ROTON Hinge models 780-045, 780-046, 780-053 and 780-054. All four studs must be used in order to comply with U.L. requirements for composite wood fire doors rated up to 90 minutes and metal fire doors rated up to 3 hours.



Materials Needed

- Stainless steel studs (4).
- Drill, 7/8" diameter bit, #16 (.177") bit, 12-24 thread tap.
- #10 spanner screwdriver.

Installation

1. Install the hinge in accordance with the standard installation instructions furnished with the hinge.
2. On the frame leaf, drill tap 12-24 in the center of the four 3/4" diameter holes.
3. On the door leaf, drill a 7/8" diameter by 3/4" deep in the horizontal location from the edge of the door. The horizontal location is the center line of the door minus the inset. The Vertical location is on the chart listed below. The first measurement is from the top of the hinge to the centerline of hole #1. The second, third and fourth holes are measured from centerline to centerline.

Horizontal location	Location (for 1.75 door)
780-045 and 046	19/32"
780-053 and 054	25/32"

Vertical Location	79"	83"	85"	95"	119"
Hole #1	13-7/8"	15-7/8"	16-7/8"	16-3/4"	13-3/8"
Hole #2	10-1/4"	10-1/4"	10-1/4"	20-1/2"	30-3/4"
Hole #3	30-3/4"	30-3/4"	30-3/4"	20-1/2"	30-3/4"
Hole #4	10-1/4"	10-1/4"	10-1/4"	20-1/2"	30-3/4"

4. Insert a stud into each of the four #12-24 threaded holes on the frame and tighten securely using a #10 spanner screwdriver.
5. Close the door slowly to assure that the studs are properly aligned. Any minor interference can be corrected using a rat-tail file.

