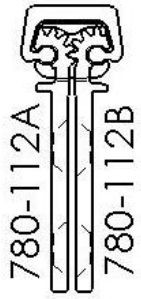
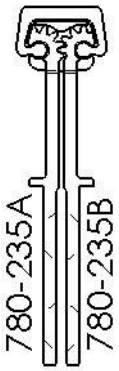
ROTON Hinge U.L. Fire-Rated Studs – 780-111, -112, -124, -224, -226, -235

These instructions outline how to install the optional stainless steel studs (4) for ROTON Hinge models 780-112, 780-124 and 780-224. 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.

					
780-111	**780-112**	**780-124**	**780-224**	**780-226**	**780-235**

Materials Needed

- Stainless steel studs (4).
- Drill, 3/4” diameter bit, #16 (.177”) bit, 12-24 thread tap.
- #10 spanner screwdriver.

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”

Installation

1. Install the hinge in accordance with the standard installation instructions furnished with the hinge.
2. At the center of each 3/4” diameter pre-drilled hole in the *frame leaf*, drill and tap a #12-24 threaded hole into the frame (four places).
3. At each 3/4” diameter pre-drilled hole in the *door leaf*, drill a 3/4” diameter x 5/8” deep hole into the edge of the door (four places).
4. Insert a stud into each of the four #12-24 threaded holes of 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.

