

The following is the installation procedures for installing wall, ceiling and floor penetration fire stops using Flame Control No. 70 Mastic.

Through wall, ceiling and floor penetration fire stops are easily constructed using Flame Control No. 70 Fire Retardant Cable Mastic and other common materials available from your local building material supplier.

MATERIALS REQUIRED:

- * Flame Control No. 70 Fire Retardant Cable Mastic
- * 5/8 inch U/L X-Rated Drywall
- * Standard 3 1/2" X 15" X 48" ridge fit batt noncombustible unfaced fiberglass insulation, having a minimum R-value of 11.

Quantity of material required depends on the size, thickness and number of openings to be closed with fire stops. In general, 5 gallons of Flame Control No. 70 Fire Retardant Cable Mastic is sufficient to seal approximately 12 sq.ft. of openings.

TOOLS REQUIRED:

knife
tape measure
sabre saw
smooth edge trowel
rubber mallet
short length of smooth 2 X 4
4" putty knife

START UP PROCEDURE:

Step 1: Measure the opening to be sealed and cut three pieces of 5/8" U/L X-Rated drywall 1/8" larger than the opening size. (Example: if opening is 16" X 26", cut drywall 16 1/8" X 26 1/8", then trowel No. 70 Mastic over the drywall face to achieve a wet film thickness of approximately 3/32", (1 quart will cover approximately 4 1/4 sq.ft. at 3/32"). Allow to dry a few hours or over night, before proceeding.

Step 2: Mark drywall boards where conduits, cable trays and mechanical penetrations protrude through opening (see sketch #1). Using a saw or knife, carefully cut penetration openings slightly smaller to ensure a tight, snug fit around all penetrations.

Step 3: Apply No. 70 Mastic to achieve a wet film thickness of approximately 1/8" on all items penetrating through the opening, coat items to a distance of at least 4" beyond the plane of the opening. On cable tray penetrations, apply sufficient No. 70 Mastic to fill and seal all gaps between the cables.

Step 4: Apply approximately 1/2" of No. 70 Mastic to the inside surfaces of the opening (see sketch #2). Position first piece of drywall board in center of the opening and tap in place (see sketch #3), using mallet and 2 X 4. Care must be taken to avoid breaking or crumbling board. When first drywall board is in place fill any openings in board with fiberglass insulation, coat insulation with generous amount of No. 70 Mastic, then coat all

exposed surfaces with at least 1/8" wet film of No. 70 Mastic. While mastic is wet, lightly press fiberglass insulation batts against surface, cut insulation batts to fit snug and tight. Coat exposed surfaces of insulation with generous amounts of No. 70 Mastic. Position second piece of drywall board in opening and tap into place firmly against the coated fiberglass insulation. Fill all openings around penetrations with fiberglass insulation. Cover all exposed surfaces with at least a 1/8" wet film of No. 70 Mastic (see sketch #4). Coat cables, trays and conduits for a distance of four feet from the penetration, with at least a 1/8" wet film of No. 70 Mastic. For maximum fire protection, repeat these procedures on the other side of opening.

CAUTION CAUTION

Flame Control Mastic contains water, and can conduct electricity until thoroughly dry. Extreme caution must be exercised when the material is being applied, and until thoroughly dried.

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