



# Fire Protection Products



ENGINEERING JUDGMENT FOR:
02/27/15
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<b>Project:</b> Maine Medical Center Bean Addition	<b>Contractor:</b> Northeast Firestopping
<b>Fire Stopping Category:</b> Pen Seals / Structural	<b>Hourly Rating Requested/ Type:</b> 2 Hour / F
<b>Assembly Penetrated:</b> Gypsum Wall	<b>Opening Size:</b> Sized to allow annular
<b>Penetrating Item:</b> Beams with Spray Applied Fire Resistive Material (SFRM)	<b>Annular Space:</b> Min 1/4 in. to max 2 in.

**Special Conditions:** 1 Square steel beam with SFRM and one I Beam with SFRM intersect within a gypsum wallboard assembly. Square beam exits one side of the wall and I-Beam exits the other side of the wall.

**Application Details:** To firestop this application:



1. Openings to be completely framed.
2. Install minimum 4 pcf mineral wool tightly packed into the annular space on both sides of the wall assembly. Mineral wool to be recessed 5/8 in. from the face of the wall on both sides of the assembly.
3. Install a 5/8 in. depth of sealant into the annular space on both sides of the wall assembly. Sealant to be flush with the face of the wall on both sides of the assembly.

**NOTE:** 3M or its' representatives are not responsible for damage to firestop or walls over the life of the building due to building movement and/or in a fire scenario, the firestop design does not address the structural integrity of the structural member and consequential damage to firestop or wall in a fire scenario.

**3M Fire Barrier Material:** CP 25WB+, FB 3000 WT

**Based On:** W-L-7146  
**Additional Referenced System(s):** W-L-5032

This Engineering Judgment (EJ) is based upon the sole and exclusive use of 3M brand Fire Protection Products as described within. Modification of any of the parameters of this EJ, including, without limitation, the use of non-3M brand Fire Protection Products, shall render this EJ null and void. The firestop design is expected to achieve the hourly rating indicated above. This engineering judgment is based on performance results obtained in testing with independent laboratories and / or internal 3M fire tests, which have been tested in accordance to ASTM E 814 (UL 1479).

Engineering Judgment Prepared By:  Anthony Kilmer Technical Service Representative	Reviewed By:  565176 cc: Ryan Fenstermaker Email: mpalmacci@generalinsulation.com
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