



# Fire Protection Products




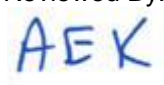
ENGINEERING JUDGMENT FOR:
01/23/15
Michael Palmacci
General Insulation
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<b>Project:</b> Bean 2 Project at Maine Medical Center	<b>Contractor:</b> Northeast Firestopping Solutions
<b>Fire Stopping Category:</b> Pen Seals / Structural	<b>Hourly Rating Requested/ Type:</b> 2 Hour / F <b>Obtainable Rating: See Below</b>
<b>Assembly Penetrated:</b> Gypsum Wallboard Assembly	<b>Opening Size:</b> Sized to allow penetrant and annular space
<b>Penetrating Item:</b> Steel I Beam	<b>Annular Space:</b> Max. 1-1/2 in.

<b>Special Conditions:</b> Vertical I Beam with SFRM within the plane of a gypsum wall.
<b>Application Details:</b> To firestop this application, install in accordance with the following modifications/clarifications: <ul style="list-style-type: none"> <li>1. Install minimum 4 pcf mineral wool within the annular space to max extent possible. Mineral wool is to be compressed 50% and install flush with the face of the gypsum wallboard assembly.</li> <li>2. Install a minimum 1/8 in. wet thickness of FireDam Spray 200 over the previously installed mineral wool. FireDam Spray 200 is to over the wall and the steel beam with SFRM a minimum 1 in.</li> <li>3. Due to the inclusion of the steel I-Beam with SFRM running within the plane of the wall assembly, the obtainable rating for this application is reduced to up to 2 hour F or as long as the overall assembly remains fully intact in a fire scenario.</li> </ul>
<b>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.</b>

<b>3M Fire Barrier Material:</b> FireDam Spray 200
<b>Based On:</b> W-L-8033

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:  Carrie Meis Technical Service Technician	Reviewed By:  564408 cc: Ryan Fenstermaker
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### 3M Building and Commercial Services Division

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