3M
Fire Protection Products

ENGINEERING JUDGMENT FOR:
07/25/14
Michael Palmacci
General Insulation
378 Commercial Street
Malden, MA 02148
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Project: Maine Medical Center Bean 2	**Contractor:** Northeast Firestopping Solutions
Fire Stopping Category: Joints / Perimeter	**Hourly Rating Requested/ Type:** 1 and 2 Hour / F **Obtainable Rating: See Below**
Joint Type: Perimeter	**Maximum Joint Width:** Max 8 in.
Curtain Wall: Per 3MU/JS 120-17	**Slab Assembly:** Structural Concrete
Type of Movement: Dynamic	

Special Conditions: Inclusion of the spandrel insulation is going to be sandwiched between two 20 ga. metal pans. Edge of slab is packed and spray against the metal pan and not foil faced insulation. Gap after pan 6 inches. Need to cover mullions. Mineral wool in application has been exposed to moisture on the top side of the assembly.

Application Details: To firestop this application, install in accordance with UL System 3MU/JS 120-17 with the following modifications/clarifications:

1. Install a 1/8 wet thickness of FireDam Spray 200 over the mineral wool on the bottom side of the assembly.
   - FireDam Spray 200 to overlap minimum ½ in. onto all surrounding substrates and minimum 2 in. onto any substrates with spray applied fire resistive coating..
2. *Due to the inclusion of the elimination of the stiffening angles, unknown transom height, and mineral wool being exposed to moisture the obtainable rating for this application is reduced to a smoke seal only.
3. Contractor must ensure the bonding of the FireDam Spray to the mineral wool insulation is not compromised by the mineral wool being wet. The mineral wool must be dry when FireDam Spray 200 is applied.

Note: 3M resumes no responsibility for mold growth that may occurs due to the mineral wool being exposed to moisture.
Note: If mineral wool is replaced, the obtainable rating may be increased to Up to 1 and 2 hours or as long as the entire assembly remains fully intact in a fire scenario.

3M Fire Barrier Material: FireDam Spray 200

Based On: 3MU/JS 120-17

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. This perimeter fire barrier design is expected to achieve the hourly rating indicated above. This engineering judgment is based on performance results obtained in testing with independent laboratories which have been tested in accordance to ASTM E 2307 and / or internal 3M fire tests.

3M Building and Commercial Services Division

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Engineering Judgment Prepared By:	Reviewed By:
Carrie Meis Carrie Meis Technical Service Representative	CM 561005 Rev. 1 AEK 11-20-14: Modified per field condition cc: Ryan Fenstermaker