



Fire Protection Products



ENGINEERING JUDGMENT FOR:
01/23/15
Michael Palmacci
General Insulation
378 Commercial Street
Malden, MA 02148
Fax: (781) 321-5350

Project: Bean 2 Project at Maine Medical Center	Contractor: Northeast Firestopping Solutions
Fire Stopping Category: Joints / Head of Wall	Hourly Rating Requested/ Type: 2 Hour / F
Joint Type: Construction	Maximum Joint Width: 2 in.
Floor Assembly: Fluted Steel Deck/Concrete Floor	Wall Assembly: Gypsum Wallboard Assembly
Type of Movement: Dynamic	

Special Conditions: Field condition like UL System HW-D-0031 with deviation of single side only access.



Application Details: To firestop this application, install in accordance with UL System HW-D-0031 with the following modifications/clarifications:

1. Install a 1 in. depth of 4 pcf mineral wool into the joint.
 - Mineral wool to be positioned such that the side farthest from the installer is flush with the inaccessible side of the assembly.
2. Install a 1/8 wet thickness of FireDam Spray 200 over the mineral wool.
 - FireDam Spray 200 to overlap minimum 1/2 in. onto all surrounding substrates.
 - Allow FireDam Spray 200 to skin over.
3. Install minimum 4 pcf mineral wool which has been compressed 50% into the remaining depth of the joint.
 - Mineral wool to be flush with the accessible side of the assembly.
4. Install a 1/8 wet thickness of FireDam Spray 200 over the mineral wool.
 - FireDam Spray 200 to overlap minimum 1/2 in. onto all surrounding substrates.

3M Fire Barrier Material: Fire Dam Spray 200

Based On: HW-D-0031, HW-D-0379

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 fire-resistive joint 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 1966 (UL 2079).

Engineering Judgment Prepared By:  Anthony Kilmer Technical Service Representative	Reviewed By:  564405 cc: Ryan Fenstermaker
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3M Building and Commercial Services Division

3M Center, Building 223-2N-20
St. Paul, MN 55144-1000