



Fire Protection Products



ENGINEERING JUDGMENT FOR:
02/17/15
Michael Palmacci
General Insulation
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Malden, MA 02148
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Project: Bean 2 Maine Med	Contractor: Northeast Firestop Solutions
Fire Stopping Category: Joints / Head of Wall	Hourly Rating Requested/ Type: 2 Hour / F
Joint Type: Construction	Maximum Joint Width: .075 in.
Floor Assembly: Fluted Steel Deck	Wall Assembly: Gypsum Shaft Wall
Type of Movement: Dynamic	

Special Conditions: Field condition like HW-D-0465 with the inclusion of a shaft wall. Max 1 in. joint also resides between the top of wall and the bottom of the beam with SFRM. Single side access
Application Details: To firestop this application, install in accordance with UL System HW-D-0465 with the following modifications/classifications;
<p>Condition 1:</p> <ol style="list-style-type: none"> 1. Within the joint between the coreboard the gypsum shaft wall, install mineral wool and FireDam Spray 200 per UL System HW-D-0552. <p>Condition 2:</p> <ol style="list-style-type: none"> 1. Within the steel flutes, from the accessible side of the joint assembly, install a minimum 1 in. depth of minimum 4 pcf mineral wool. Mineral wool is to be flush with the inaccessible side of the joint assembly. 2. From the accessible side of the joint assembly, install a minimum 1/8 in. wet thickness of FireDam Spray 200. FireDam Spray 200 is to overlap all substrates a minimum 1 in. 3. From the accessible side of the joint assembly, install minimum 4 pcf mineral wool within the remainder of the opening. Mineral wool is to be compressed 50% and installed flush with the accessible side of the joint assembly. 4. Install a minimum 1/8 in. wet thickness of FireDam Spray 200 over the previously installed mineral wool. FireDam Spray 200 is to overlap all substrates a minimum 1 in.

3M Fire Barrier Material: FireDam Spray 200

Based On: HW-D-0465, HW-D-0552

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:	Reviewed By:
	
Alan Wiater Technical Representative	564917 cc: Ryan Fenstermaker

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