Guidance Information - Bulletin No. 1003



FLUTE-FILL OPTIONS For Sprayed Fire Resistive Materials (SFRM)

UL has clarified several allowable options available for treatment of the cavity areas formed above the flanges of beams where they pass under 100% fluted metal decking. The flute fill options depend on whether the beams run perpendicular or parallel to the flutes of the metal decking, and for the former, whether the top flange of the beam is less than or greater than 8 inches wide. The options are identified as follow:

A. Beams running perpendicular to the flutes of all (100%) fluted metal decking.

- a. Beams with flange widths of 8 inches or less
- b. Beams with flange widths greater than 8 inches

B. Beams running parallel to the flutes of metal decking

Within each major category are options that need to be reviewed. The details of these options are contained in the following pages of this Guidance Information Bulletin.

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Page 1 of 9 1/7/2008 **Guidance Information - Bulletin No. 1003**



A. Beams running perpendicular to the flutes of all (100%) fluted metal decking.

The following options are general in nature, supported by UL documentation¹, and applicable to all jobsites where these conditions occur. No confirmation letter is required.

<u>Caution</u>: Where a beam is a continuation of an hourly rated wall assembly, the sprayed fire resistive material is required to act as a component of a rated firestop system. Where this condition occurs, it is necessary to refer to a specific head of wall (HW) firestopping joint system for the required fireproofing protection details.

A.a. : Beams with flange widths of 8 inches or less

Option A.a.i : The flute cavity above the beam shall be completely filled with the sprayed fire resistive material (SFRM). There should be no void left above the beam. The thickness of SFRM on the beam can be taken from designs detailing only all fluted decking.





* NOTE. The thickness of the sprayed fire resisitive material on the beam and forming the "face" closing openings on both sides of the beam must be derived from a design consisting of a blend cellular and fluted, or all cellular units.

Page 3 of 9 1/7/2008













References:

- ¹ Underwriters Laboratories Inc, letter dated October 19, 2005, Courtesy of W.R Grace and Co.
- ² Underwriters Laboratories Inc, letter dated October 11, 2005, Courtesy of W.R Grace and Co.

Page 9 of 9 1/7/2008