



Johns Manville

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A Berkshire Hathaway Company

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SUBJECT: Fire Resistant Properties of Johns Manville's Unfaced Fiber Glass Building Insulation

To whom it may concern,

Johns Manville's Unfaced Formaldehyde-Free[™] fiber glass insulation is produced to meet or exceed the requirements of ASTM C-665 "*Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing*" for Type I products. Johns Manville's Unfaced fiber glass batt insulation products have a flame spread and smoke developed rating of 25 or less and 50 or less, respectively, when tested according to ASTM E 84 "*Standard Test Method for Surface Burning Characteristics of Building Materials.*" In addition, Johns Manville's Unfaced fiber glass is a refractory material that has an upper service temperature of 350°F, and has been confirmed as being non-combustible when tested according to ASTM Test Method E-136 "*Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 C.*"

The ASTM E-136 fire-test-response test method covers the determination under specified laboratory conditions of combustion characteristics of building materials. For example, Johns Manville's Unfaced fiber glass building insulation met the ASTM E-136 requirements for non-combustibility as reported in Johns Manville Memo Report F02-23 dated 3-18-2002 and 3rd party Intertek Report No. 100746864MID-001 dated May 21, 2012.

Please let Johns Manville know if you have additional questions regarding this matter.

Sincerely,

John A. Elverum
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Sr Tech Svcs Specialist
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