

## **TECHNICAL BULLETIN – Insulation Systems**

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### **Bio-Based Binder Product Compliance to Industry Specifications**

Johns Manville fiber glass building insulation products are transitioning to a new bio-based Formaldehyde-free binder. The binder is a small but important component of the product, holding the glass fibers in place to maintain the shape of the batt or roll insulation. Developed in-house by JM chemists, the new binder is made from rapidly renewable plant-based materials, and is engineered for optimal performance in JM's advanced manufacturing process.

The new binder composition results in a change to the product's appearance which is now an earthy brown color. The color and binder differences have no impact on the basic performance of the insulation, and testing at accredited Johns Manville and external laboratories has confirmed that products utilizing the new binder continue to comply with all the performance requirements of industry standards including ASTM C665 "Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing".

#### **Industry Standard Compliance**

Standard Specification for Mineral-Fiber Blanket ASTM C665

Dimensional Tolerances: ASTM C167

Thermal Transmission Properties: ASTM C 518

Surface Burning Characteristics, Flame 25 or less, Smoke 50 or less: ASTM E84

Critical Radiant Flux: ASTM E970

Water Vapor Sorption: ASTM C1104

Odor emission: C1304

Corrosiveness: ASTM C 665 and ASTM C1617

Fungi Resistance: ASTM C 1338

Noncombustible: ASTM E 136

Underwriters Laboratories, Inc. Classified FHC 25/50

#### **Specification and Installation**

The new binder does not change the size, form, or applicability of the building insulation products throughout the product line, and the updated version can be used interchangeably with the previous products. Standard installation procedures apply.