



Owens Corning Building Insulation and ASTM C 665 Classification

Technical Bulletin

The basic guideline for manufacturing light density building insulation is ASTM C 665, “Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing”. This document covers the required physical properties and the methods to test for those properties, as well as a materials classification system. The purpose of this memo is to provide a summary of Owens Corning products and where they fall within that classification system.

The classification hierarchy - including C 665 section numbers - is as follows:

Section	Classification	Description
4.1.1	Type I	Blankets without membrane coverings.
4.1.2	Type II	Blankets with nonreflective membrane coverings:
4.1.2.1	Class A	Membrane-faced surface with a flame spread of 25 or less.
4.1.2.2	Class B	Membrane-faced surface with a flame propagation resistance, critical radiant flux of 0.12 W/cm ² (0.11 Btu/ft ² s) or greater.
4.1.2.3	Class C	Membrane-faced surface not rated for flame propagation resistance (for use in non exposed applications only).
4.1.2.4	Category 1	Membrane is a vapor retarder.
4.1.2.5	Category 2	Membrane is not a vapor retarder.
4.1.3	Type III	Blankets with reflective membrane coverings:
4.1.3.1	Class A	Membrane-faced surface with a flame spread of 25 or less.
4.1.3.2	Class B	Membrane-faced surface with a flame propagation resistance, critical radiant flux of 0.12 W/cm ² (0.11 Btu/ft ² s) or greater.
4.1.3.3	Class C	Membrane-faced surface not rated for flame propagation resistance (for use in non exposed applications only).
4.1.3.4	Category 1	Membrane is a vapor retarder.
4.1.3.5	Category 2	Membrane is not a vapor retarder.

Owens Corning insulation products are classified as follows:

Product	Classification
All unfaced blanket (batts & rolls)	Type I
All Kraft-faced products	Type II, Class C, Category 1
All foil-faced products	Type III, Class C, Category 1
FS-25: FSK-faced	Type III, Class A, Category 1
FS-25: PSK-faced and Poly-faced	Type II, Class A, Category 1
QuietZone® Residential Noise Control Batts	Type II, Class C, Category 2

For more details on the facings available with our light-density fiber glass building insulations see the Owens Corning product selection guide, publication no. 15-IN-44758, “Facings For Residential & Commercial Insulation”.



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