



White Paper

BI-WP-03 10-12

Fire Safety & The Knauf Insulation EcoSeal® System

EcoSeal® & Knauf Insulation Glasswool Products

AN **ECOSEAL**® WHITE PAPER

Fire Safety & The Knauf Insulation EcoSeal® System

The Knauf Insulation EcoSeal® sealant has demonstrated excellent performance in testing to assess its surface burning characteristics.

The surface burning characteristics of building materials are determined by several different test methods; ASTM E-84, UL723, NFPA 255 and CAN/ULC S102-M88. All of these methods are essentially identical in that they use what is commonly referred to as the “Steiner Tunnel” test device. In the tunnel the material to be tested is exposed to a controlled air flow and flame from natural gas burners. The rate by which the flame impinges to the surface and propagates down the tunnel is characterized by the term “flame spread” (FS). And another property measured in this test is “smoke developed” (SD), where the intensity of the smoke is measured with a photocell.

The Knauf Insulation EcoSeal sealant measured 0/0 (FS/SD) when evaluated by Underwriters Laboratories, which meets the common designation of a Class A or Class I material because it measures equal to or less than a FS/SD of 25/50. EcoSeal demonstrated it has the same level of performance as our unfaced EcoBatt® glass wool product. This suggests that there is no fire related consequence from using EcoSeal over a non-sealed home.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of the materials, products, or assemblies under actual fire conditions.

This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

Flame Classes in Code Language

Class	Flame Spread Range
I or A	0 to 25
II or B	>25 to 75
III or C	>75 to 200
IV or D	>200

Knauf Insulation GmbH
One Knauf Drive
Shelbyville, IN 46176

Sales and Marketing 1-(800) 825-4434, ext. 8490

Technical Support 1-(800) 825-4434, ext. 8512

Information info.us@knaufinsulation.com

World Wide Web www.knaufinsulation.us

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