

ICC-ES Evaluation Report**ESR-3110**

Issued September 1, 2010

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**DIVISION: 07 00 00—THERMAL AND MOISTURE
PROTECTION****Section: 07 21 00—Thermal Insulation****Section: 07 84 16—Annular Space Protection****REPORT HOLDER:****OWENS CORNING SALES, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO 43659
(800) 248-8000
www.owenscorning.com****EVALUATION SUBJECT:****ENERGYCOMPLETE™ SPRAY SEALANT****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2009 *International Building Code*® (IBC)
- 2009 *International Residential Code*® (IRC)

Properties evaluated:

- Surface-burning characteristics
- Annular space protection

2.0 USES

EnergyComplete™ Spray Sealant is used to fill cracks and voids in construction and the annular space created by the penetration of wood fireblocking by pipes and conduits. The sealant is recognized for use as an alternative to the methods prescribed by the code for maintaining the integrity of penetrations of fireblocking.

The sealant with a density exceeding the specified maximum of 2.0 pcf (32 kg/m³) is permitted as an alternative to IBC Section 2603.4.1.13 for Type V construction and IRC Section R316.5.11 when installed in 1½-inch-wide-by-1/8-inch-thick (38 mm by 3.2 mm) strips, as a minimum.

3.0 DESCRIPTION

EnergyComplete™ Spray Sealant is a latex-based, flexible foam sealant. The sealant has a flame-spread index of less than 25 and a smoke-developed index of less than 450 when tested in accordance with ASTM E 84 (UL 723). The two-part (Side A and Side B) sealant is packaged in separate containers. The sealant has been tested in accordance with a modified version of ASTM E 814 to establish that the integrity of the fireblocking is maintained when the fireblocking is penetrated.

4.0 DESIGN AND INSTALLATION

Installation of EnergyComplete™ Spray Sealant must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation. EnergyComplete™ is to be installed only with the authorized equipment provided by the manufacturer by installers certified by the manufacturer, or its designated agent.

When used to fill the annular space around penetrations of plates, the foam sealant must be installed to completely fill the annular space for the full depth of the plate that has been penetrated. Except when use is for sill plates and headers in accordance with IBC Chapter 26 or IRC Chapter 3, use of the sealant to fill annular space or to seal cracks without being covered with a thermal barrier must observe the following limitations:

- a. The maximum width of exposed sealant or of the annular space of penetration to be sealed must not exceed 1/16 inches (37 mm) and the nominal sealant thickness must range from 1/2 inches to 3 inches (38 mm to 76 mm).
- b. The maximum area of exposed sealant must not exceed 24 square inches per square foot (1662 cm²/m²) of wall area.

5.0 CONDITIONS OF USE

The EnergyComplete™ Spray Sealant described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Materials and methods of installation must comply with this report and the manufacturer's published installation instructions. In the event of a conflict between the installation instructions and this report, this report governs.
- 5.2** The sealant must not be used in applications where it is exposed to sunlight, weather or bulk water.
- 5.3** A thermal barrier is not required when installation complies with Section 4.0.
- 5.4** Use of the sealant for annular space protection is limited to Type V-B construction under the IBC and to construction permitted under the IRC.
- 5.5** The components of EnergyComplete™ Spray Sealant are manufactured in Fitchburg, Massachusetts (Side A), and Fleetwood, Pennsylvania (Side B), under quality control programs with inspections by Underwriters Laboratories Inc. (AA-668).

6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's published installation instructions, dated October 2009.
- 6.2 Report containing results of testing performed in accordance with ASTM E 84 (UL 723).
- 6.3 Reports containing results of comparative testing performed in accordance with a modified version of ASTM E 814.
- 6.4 Report containing results of testing performed in accordance with NFPA 286.
- 6.5 Quality documentation.

7.0 IDENTIFICATION

The EnergyComplete™ Spray Sealant described in this report is identified by labeling on the containers in which the chemical components are shipped. The labeling bears the report holder's name (Owens Corning Sales, LLC), the product name, the name of the inspection agency (Underwriters Laboratories Inc.) and the evaluation report number (ESR-3110).