ICC-ES Evaluation Report

ESR-3118

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This report is subject to re-examination in one year.

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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:

SOUDAL NV
EVERDONGENLAAN 18-20
2300 TURNHOUT
BELGIUM
0113214424231
www.soudal.com
www.soudalusa.com

EVALUATION SUBJECT

SOUDAFOAM GAP & BLOCK

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

Soudafoam Gap & Block is a sealant 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.

3.0 DESCRIPTION

Soudafoam Gap & Block is a single-component polyurethane foam plastic sealant that expands to take the shape of cracks and voids. 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. The sealant is packaged in an aerosol delivery configuration. The sealant has been tested in accordance with ASTM E 814 (modified) to establish that the integrity of the fireblocking is maintained when the fireblocking is penetrated.

4.0 DESIGN AND INSTALLATION

Installation of the sealant must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions are to be available at the jobsite at all times during installation.

The sealant must be installed to completely fill the annular space around the penetrations for the full depth of the plate that has been penetrated. Use of the foam to fill annular space or cracks must observe the following limitations:

a. The maximum width of exposed sealant or the annular space of penetrations to be sealed is not to exceed $1^{7}/_{16}$ inches (37 mm), and the nominal foam thickness must range from $1^{1}/_{2}$ inches to 3 inches (38 mm to 76 mm).

b. The maximum area of exposed sealant must not exceed 16 square inches per square foot (1108 cm^2/m^2) of wall area.

5.0 CONDITIONS OF USE

The Soudafoam Gap & Block 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 manufacturer's published installation instructions and this report, this report governs.

5.2 The sealant must not be used in applications where exposed to sunlight or weather.

5.3 A thermal barrier is not required when installation complies with Section 4.0.

5.4 Use of the sealant is limited to Type V-B construction under the IBC and to construction permitted under the IRC.

5.5 Soudafoam Gap & Block sealant is manufactured in Turnhout, Belgium, under a quality control program with inspections by Underwriters Laboratories Inc. (AA-668).

6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's descriptive literature.

6.2 Report containing results of testing performed in accordance with UL 723 (ASTM E 84).

6.3 Report 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 Soudafoam Gap & Block sealant described in this report is identified by a stamp bearing the Soudal NV name, the product type, the name of the inspection agency (Underwriters Laboratories Inc.) and the evaluation report number (ESR-3118).