ICC-ES Evaluation Report

ESR-3302

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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:

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EVALUATION SUBJECT:

TYTAN PROFESSIONAL FIRE 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

Tytan Professional Fire Block is a sealant used to fill cracks and voids in construction and 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 is permitted as an alternative to what is prescribed in IBC Section 2603.4.1.13 for Type V construction, and IRC Section R316.5.11, when installed in maximum 2-inch-wide-by-2-inch-thick (51 mm by 51 mm) beads.

3.0 DESCRIPTION

Tytan Professional Fire Block is a single-component, polyurethane foam plastic sealant that expands to take the shape of cracks and voids. The sealant is packaged in an aerosol delivery configuration. 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 E84/UL723; and has been tested in accordance with ASTM E814 (modified) to establish that the integrity of fireblocking is maintained when the fireblocking is penetrated.

4.0 INSTALLATION

Installation of 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.

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 Section 2603.4.1.13 for Type V construction, or in accordance with IRC Section R316.5.11, use of the sealant to fill annular space or to seal cracks without being covered with a thermal barrier must take into account the following limitations:

a. The maximum width of exposed sealant or the annular space of penetrations to be sealed must not 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 of wall area (1108 cm^2/m^2).

5.0 CONDITIONS OF USE

The Tytan Professional Fire 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 nonfire-resistance-rated construction under the IBC and to construction permitted under the IRC.

5.5 Tytan Professional Fire Block sealant is manufactured in Dzierzoniow, Poland, and Nantong, China, under a quality control program with inspections by UL LLC (AA-668).

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6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's descriptive literature.

6.2 Report containing results of testing performed in accordance with UL 723 (ASTM E84).

6.3 Report containing results of comparative testing performed in accordance with a modified version of ASTM E814.

6.4 Report containing results of testing performed in accordance with NFPA 286.

6.5 Quality documentation.

7.0 IDENTIFICATION

Packaging of Tytan Professional Fire Block must be labeled with the Selena FM name, the product type, the name of the inspection agency (UL LLC) and the evaluation report number (ESR-3302).