

# ICC-ES Evaluation Report


ESR-3302

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<p><b>DIVISION: 07 00 00 — THERMAL AND MOISTURE PROTECTION</b></p> <p><b>Section: 07 21 00 — Thermal Insulation</b></p> <p><b>Section: 07 84 16 — Annular Space Protection</b></p>	<p><b>REPORT HOLDER: SELENA USA, INC.</b></p>	<p><b>EVALUATION SUBJECT: TYTAN PROFESSIONAL FIRE BLOCK, TYTAN PROFESSIONAL FIRE BLOCK 113 AND TYTAN PROFESSIONAL FIRE BLOCK EXTREME</b></p>	
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## 1.0 EVALUATION SCOPE

**Compliance with the following codes:**

- 2021, 2018, 2015, 2012, and 2009 [International Building Code® \(IBC\)](#)
- 2021, 2018, 2015, 2012, and 2009 [International Residential Code® \(IRC\)](#)

**Properties evaluated:**

- Surface-burning characteristics
- Annular space protection

## 2.0 USES

Tytan Professional Fire Block, Tytan Professional Fire Block 113 and Tytan Professional Fire Block Extreme are sealants used to fill cracks and voids in construction and annular space created by the penetration of wood fireblocking by pipes and conduits. The sealants are evaluated for use as an alternative to the methods prescribed by the code for maintaining the integrity of penetrations of wood fireblocking.

The foam plastic sealants are 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, Tytan Professional Fire Block 113 and Tytan Professional Fire Block Extreme are single-component, polyurethane foam plastic sealants that expand to take the shape of cracks and voids. The foam plastic sealants are packaged in an aerosol delivery configuration. The foam plastic sealants have 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. The sealants have been tested in accordance with the ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Used to Maintain the Integrity of Wood Fireblocking (AC546) to establish that the integrity of the wood fireblocking is maintained when penetrated.

## 4.0 DESIGN AND INSTALLATION

Installation of foam plastic 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 plastic 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  $1\frac{7}{16}$  inches (37 mm), and the nominal foam thickness must range from  $1\frac{1}{2}$  inches to 3 inches (38 mm to 76 mm).
- b. The maximum area of exposed Tytan Professional Fire Block or Tytan Professional Fire Block Extreme sealant must not exceed 18 square inches per square foot of wall area ( $1246\text{ cm}^2/\text{m}^2$ ). The maximum area of exposed Tytan Professional Fire Block 113 sealant must not exceed 12 square inches per square foot of wall area ( $831\text{ cm}^2/\text{m}^2$ ).

## 5.0 CONDITIONS OF USE:

The Tytan Professional Fire Block, Tytan Professional Fire Block 113 and Tytan Professional Fire Block Extreme 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 spray-applied foam plastics is limited to Type V-B construction under the IBC and to nonfire-resistance-rated construction under the IRC.
- 5.5 The spray-applied foam plastic is not intended for use as a component of a through-penetration firestop system installed in a fire-resistance-rated assembly.
- 5.6 The spray-applied foam plastic is not intended for use as an alternative to wood fireblocking prescribed by the applicable code.
- 5.7 Tytan Professional Fire Block, Tytan Professional Fire Block 113 and Tytan Professional Fire Block Extreme sealants are manufactured in Dzierzoniow, Poland, under a quality control program with inspections by ICC-ES.

## 6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the [ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Used to Maintain the Integrity of Wood Fireblocking \(AC546\)](#) dated February 2023.
- 6.2 Reports containing results of testing performed in accordance with NFPA 286.

## 7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-3302) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2 In addition, packaging of Tytan Professional Fire Block, Tytan Professional Fire Block 113 and Tytan Professional Fire Block Extreme must be labeled with the Selena USA, Inc. name, the product type, and the evaluation report number (ESR-3302).
- 7.3 The report holder's contact information is the following:

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