ICC-ES Evaluation Report

ESR-2179

Reissued February 2024

Subject to renewal February 2025

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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: HILTI, INC.**	**EVALUATION SUBJECT: HILTI CF-AS-CJP ALL SEASONS CRACK AND JOINT INSULATION FOAM AND FIREBLOCK**	

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)†

†The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Surface-burning characteristics
- Annular space protection

2.0 USES

Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock is an aerosol foam plastic 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 foam plastic product is evaluated for use as an alternative to the methods prescribed by the code for maintaining the integrity of penetrations of wood fire blocking.

3.0 DESCRIPTION

Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock is a single-component, polyurethane foam plastic sealant that expands to take the shape of cracks and voids. The foam plastic 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. The packaging consists of an aerosol delivery configuration. The foam plastic product has 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 the wood fireblocking is penetrated.

4.0 INSTALLATION

Installation of Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock 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. The foam plastic must be installed to completely fill the annular space around the penetrations for full depth of the plate that has been penetrated. Use of the foam plastic to fill the annular space or cracks must observe the following limitations:

a. The maximum width of exposed foam plastic or the annular space of penetrations to be sealed must not exceed $1^{5}/_{16}$ inches (33 mm) and the nominal foam thickness must not exceed 1.5 inches.

b. The maximum area of exposed foam plastic must not exceed 8.2 square inches per square foot (568 cm^2/m^2) of wall area.

5.0 CONDITIONS OF USE:

The Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock 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 exposed to sunlight or weather.

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

5.4 Use of Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock is limited to Type V-B construction under the IBC and to nonfire-resistance-rated construction permitted 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 Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock is produced in Belgium 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 Report 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-2179) along with the name, registered trademark, or registered logo of the report hodler must be included in the product label.

7.2 In addition, the Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock foam plastic sealant described in this report is identified by a stamp bearing the report holder's name (Hilti, Inc.), the product type and the evaluation report number (ESR-2179).

7.3 The report holder's contact information is the following:

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