1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2012, 2009 and 2006 International Residential Code® (IRC)

Properties evaluated:

- Surface-burning characteristics
- Annular space protection

2.0 USES

Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock, CF 810 Crack and Joint Foam and CF 512 Filler Foam are aerosol foam plastic sealants 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 products are recognized for use as an alternative to the methods prescribed by the code for maintaining the integrity of penetrations of fire blocking.

3.0 DESCRIPTION

Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock, CF 810 Crack and Joint Foam and CF 512 Filler Foam are, a single-component, polyurethane foam plastic sealants that expand 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.

4.0 INSTALLATION

Installation of Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock, CF 810 Crack and Joint Foam and CF 512 Filler Foam 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:

- 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.

- The maximum area of exposed foam plastic must not exceed 8.2 square inches per square foot (568 cm²/m²) of wall area.

5.0 CONDITIONS OF USE

The Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock, CF 810 Crack and Joint Foam and CF 512 Filler Foam described in this report comply with, or are suitable alternatives 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 sealants 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, CF 810 Crack and Joint Foam and CF 512 Filter Foam is limited to Type V-B construction under the IBC and to construction permitted under the IRC.

5.5 Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock, is produced in Belgium, CF 810 Crack and Joint Foam is produced in Belgium; and CF 512 Filter Foam is produced in the United States, under a quality control program with inspections by ICC-ES.
6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's descriptive literature.

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

6.3 Reports containing results of comparative testing performed in accordance with ASTM E814 (modified).

6.4 Report containing results of testing performed in accordance with UL 1715. (CF 810 Crack and Joint Foam, CF 512 Filler Foam)

6.5 Report containing results of testing performed in accordance with NFPA 286 (Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock).

6.6 Quality documentation.

7.0 IDENTIFICATION

The Hilti CF-AS-CJP All Seasons Crack and Joint Insulation Foam and Fireblock, CF 810 Crack and Joint Foam and CF 512 Filler Foam, foam plastic sealants described in this report are identified by a stamp bearing the report holder's name (Hilti, Inc.), the product type and the evaluation report number (ESR-2179).