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RE: W Ratings for FlameSafe Firestopping Systems

To whom it may concern:

Flamesafe® now has several firestopping systems utilizing our FlameSafe FS 4000 Silicone Sealant that achieve a W Rating of Class 1. W Rating is also referred to as the water leakage rating. A W Rating is a measurement of a through-penetration firestopping system's capability to resist the passage of water and subsequent fire through the system. The W Rating provides an indication of a firestopping system's ability to resist water passage and function as intended after exposure to water on job sites. Some potential sources of water that may pond on firestopping systems are; precipitation at a project site during construction, building envelope leaks, water used to clean a building interior and leaks of water systems during the life of the building.

The W Rating test is described in UL 1479 *Fire Tests of Through-Penetration Firestops*. The test for a Class 1 W Rating basically entails subjecting a through-penetration firestopping system to a pressure head of 3 feet of water (1.3 psi) for a 72 hour period. To achieve the Class 1 W Rating, the firestopping system must not allow passage of any water through the firestopping system and after water exposure pass the fire and hose stream test portions of the UL 1479 test standard. To date, fire resistive joints and perimeter barrier firestopping systems do not have a W Rating test method.

The firestopping systems utilizing FlameSafe FS 4000 Silicone Sealant that achieve a Class 1 W Rating cover the following types of penetrations, with more testing to come:

- Blank Openings
- Metallic Penetrations
- Non-Metallic Penetrations
- Cables
- Cable Trays
- Insulated Pipes
- Mechanical Penetrants (Ducts)
- Mixed Multiple Penetrants

Please contact us if there are any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Terry Gossett". The signature is fluid and cursive, written over a white background.

Terry Gossett

Technical Service