



LISTING INFORMATION OF

**Pinnacle West Enterprises, Inc. - EcoTite HFO Spray-applied  
Polyurethane Foam Insulation**

SPEC ID: 84361

Pinnacle West Enterprises Inc.  
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Canada

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## LISTING INFORMATION

Pinnacle West Enterprises, Inc., EcoTite HFO closed-cell polyurethane foam is a two-component medium-density SPF insulation system. The sprayed polyurethane foam is orange in color. The components are:

- Isocyanate (Component A) - EcoTite closed cell SPF isocyanate
- Resin (Component B) - EcoTite HFO closed cell SPF

This is a site-manufactured product; it must be finished on site only by certified installers through the spray-application of raw materials bearing the Intertek Mark that are produced only at approved manufacturing plants. See installation of spray-applied polyurethane insulation for more information on the requirements for installation and site quality assurance.

EcoTite HFO ccSPF complies with CAN/ULC-S705.1-18, *Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, medium Density - Material Specification*.

### MATERIAL RATINGS

Test Standard	Test Type	Rating
ASTM D1622	Density (kg/m <sup>3</sup> ) [lb/ft. <sup>3</sup> ]	36.0 [2.2]
CAN/ULC-S770-09 (15)	Long-term thermal resistance (LTTR) (m <sup>2</sup> .°C/W)	1.90 (at 50 mm thickness)
ASTM E96	Water-vapor permeance (ng/(Pa.s.m <sup>2</sup> ))	48 (at 41mm thickness)
CAN/ULC-S774	Time to Occupancy (hrs)	25

### FLAME SPREAD RATINGS

Test Standard	Test Type	Rating
CAN/ULC-S102	Flame Spread Rating (FSR)	< 500

#### Notes:

1. Based on the qualification testing to CAN/ULC-S705.1, the specified minimum site density must comply with CAN/ULC-S705.1, as measured on-site in accordance with CAN/ULC-S705.2-05, *Standard for Thermal Insulation - Spray Applied Rigid Polyurethane Foam, Medium Density – Application*.
2. The water vapour permeance (WVP) is determined from a core sample with the top skin removed. Due to the effect of the skin, the WVP at this thickness would be lower in the site-installed product.
3. For retrofit construction, the time to occupancy is 25 hours when the segregated retrofit area is ventilated as required by CAN/ULC-S705.2 during installation of the product and after spraying. See the Evaluation Requirements for more information.

### Site Quality Assurance Program (SQAP)

#### Installation of spray-applied polyurethane insulation

In addition to the material qualification above spray-applied polyurethane foams must be installed

in accordance with their respective installation standard and under a Site Quality Assurance Program (SQAP). Pinnacle West has engaged the designated SQAP provider below to operate its SQAP program for the installation of this product by certified installers, and to provide third-party site auditing, as required. Pinnacle West is responsible for the quality of the finished product (installed foam), and therefore is required to ensure resolution of non-conforming installations.

The installation procedure must follow the manufacturer's instruction manual. A copy of the manual must be available at the job site at all times during the installation for review by the building official.

**Certified installers**

All installers must be certified for the installation of this product by the designated SQAP provider, having a valid photo-identification license at the time of installation, and be able to present the license on request.

**Third-party site auditing**

As part of its SQAP, Pinnacle West also stipulates that periodic site-audit inspections be conducted by the designated SQAP provider. Upon completion of the site audit, the SQAP provider will report the product's conformity results and any corrective action required, if necessary, to Pinnacle West. Building officials can contact the SQAP provider to request a site-audit at a specific building site.

**Designated SQAP provider**

The following organization has been designated by Pinnacle West Enterprises, Inc., as their SQAP provider, based on qualifications as an ISO/IEC 17024 accredited personnel certification body, and ISO/IEC 17020 accredited inspection body.

Urethane Foam Consultants (UFC)  
160 Main Street South, Suite 547  
Brampton, Ontario, L6W 4C1  
Telephone: 905-702-2555  
Website: [www.foamexperts.ca](http://www.foamexperts.ca)

Attribute	Value
Criteria	CAN/ULC-S705.1 (2018)
CSI Code	07 21 00 Thermal Insulation
CSI Code	07 21 19 Foamed-In-Place Insulation
Listing Section	BUILDING MATERIALS WITH SURFACE BURNING CHARACTERISTICS
Listing Section	FOAM PLASTIC INSULATION
Spec ID	84361