



HUNTER  
CONTINUOUS INSULATION

## Hunter Xci Tech Topic #115

### Are Hunter Xci polyiso wall insulation products fire-rated?

The simple answer is “Yes.” Hunter Xci insulations have been tested in accordance with a host of standard fire tests, and have been approved for use in numerous wall assemblies that require a fire rating.

Three of the fire ratings of greatest interest to building professionals who ask this question are:

1. Compliance with NFPA 285
2. Listed hourly rated wall assembly per UL 263
3. Flame spread and smoke developed per ASTM E 84

#### 1. Compliance with NFPA 285

##### **Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components**

The IBC requires wall assemblies in building types I through IV to comply with NFPA 285, a large-scale pass/fail assembly fire test. Hunter Panels has successfully passed NFPA 285 tests in numerous wall assembly variations including fire-treated wood studs, steel studs, CMU and concrete, as well as a wide range of cladding types and weather barriers. Compliant Xci products include Xci Foil, Xci Foil (Class A), Xci CG, Xci CG (Class A), Xci 286, Xci Ply, and Xci Ply (Class A).

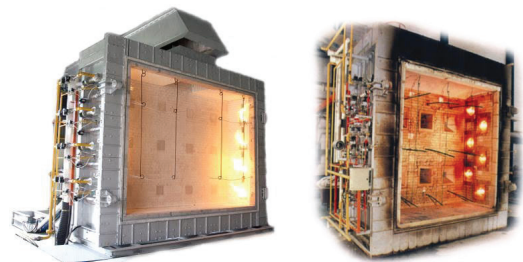


Based on the results of NFPA 285 tests, third party fire safety engineers issue evaluation reports outlining all the possible wall assembly options in which Hunter Xci products can be used. A complete Engineering Extension report covering all compliant assembly options is available on our website or by contacting our technical team. This information is also available in TER 1402-01 and 1402-02.

#### 2. Listed hourly rated wall assembly per UL 263

##### **Standard for Fire Tests of Building Construction and Materials**

The UL 263 test assigns hourly ratings to specific wall assemblies, which typically range from 1–4 hours. The required rating, designated in Chapter 6 of the IBC, is based on factors such as the building type, occupancy group, and distance from the lot line. While almost all commercial buildings require some form of this rating, the common exception is Type IIB buildings set back from all lot lines.



Hunter Xci products are listed in numerous UL 263 time-rated wall assemblies, and Hunter Panels continues to work with UL to expand the listings for Xci products. The current list of assemblies can be found in the Fire Resistance Ratings document on our website or by contacting our technical team.

#### 3. Flame spread and smoke developed per ASTM E 84

##### **Standard Test Method for Surface Burning Characteristics of Building Materials (ASTM E 84)**

The ASTM E84 test determines how the polyiso insulation is classified in terms of flame spread and smoke development. Class A products have a flame spread of <25 and Class B products have a flame spread of <75. Both Classifications require a smoke development rating of <450. The insulation Classification required will be determined by the version of the building code governing a specific project. Hunter Panels offers a selection of polyiso insulation products with Class A and Class B foam formulations.

**If you have additional questions regarding fire performance of Xci insulations, please call Hunter Panels at (888) 746-1114.**

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