



## **Fire Ratings and Building Code Compliance of Stayflex™ Systems**

This document provides a summary of building code compliance for Stayflex™ Systems. Stayflex™ Systems consist of Staycell® 245-2.0 and Staycell ONE STEP™ 255 Spray Foam Insulation, and Stayflex™ 2505 Thermal Barrier Coating.

### **Building Code Requirements**

The International Building Code (IBC) and the International Residential Code (IRC) have been adopted by most building code authorities nationwide. These codes are revised every three years. The 2003, 2006 and 2009 IBC and IRC requirements for foam plastic insulation installed in occupied/habitable locations within buildings are as follows:

1. The foam plastic insulation must have a 75 or less flame spread and 450 or less smoke-development rating when tested in accordance with the ASTM E-84 test method.
2. In addition, the foam plastic insulation must be covered with a thermal barrier material having 15 minutes of fire resistance when tested in accordance with the ASTM E-119 test method or meet the acceptance criteria when tested in accordance with full-scale fire tests such as, but not limited to, UL 1715, UL 1040, NFPA 286 or FM 4880 test standards.

**Ratings/Testing Information** (These numerical flame spread ratings and all other data presented do not reflect potential hazards presented by these products during all actual fire conditions.)

The following products are listed and labeled by Quality Auditing Institute and comply with the IBC and IRC requirements for numerous applications. Contact PSI for specific code-compliant assemblies:

### **Staycell ONE STEP™ 255 Spray Foam Insulation**

ASTM E-84; Tested at a four inch or less thickness: Flame spread: 25 Smoke development: 300

UL 1715: Does not require thermal barrier or ignition barrier protective surfaces when applied at eight inches or less thickness on the underside of roofs or ceilings or at four inches or less on the interior surfaces of walls.

### **Staycell® 245-2.0 Spray Foam Insulation**

ASTM E-84; Tested at a four inch or less thickness: Flame spread: 25 Smoke development: 450

UL 1715: Requires 1/16 inch Stayflex™ 2505 thermal barrier coating or other qualified thermal barrier such as 1/2 inch gypsum board.

### **Stayflex™ 2505 Thermal Barrier Coating**

ASTM E-84: Tested at 1/16 inch thickness: Flame spread: 15 Smoke development: 250

UL 1715: Qualified thermal barrier at 1/16 inch thickness when applied over Staycell® 245-2.0 spray foam insulation.

### **Technical assistance**

If you have any questions or comments please contact our technical services department @ 800-522-4522.