

BUILDING PRODUCTS LISTING PROGRAM

Class: Foam Plastic Insulation
Customer: Preferred Solutions, Inc.
Location: 5000 Rockside Road, Suite 230, Independence, OH 44131
Listing No. B1020
Project No. B1020-1 Edition 8
Effective Date: October 25, 2024
Expires: <N/A>

Standards: ASTM E84-18 *Standard Test Method for Surface Burning Characteristics of Building Materials*
UL 1715-17 *Fire Test of Interior Finish Material.*

Product: Preferred Solutions spray-applied polyurethane foam plastic insulation of the following models:

- Staycell ONE STEP® 502 intumescent, spray applied polyurethane foam insulation.
- Staycell® 504 spray applied polyurethane foam insulation.
- Staycell® 505 spray applied polyurethane foam insulation.
- Staycell® 504 Hybrid spray applied polyurethane foam insulation.
- Staycell® 505 Hybrid spray applied polyurethane foam insulation.

Markings: Product containers are marked with the following:

- Manufacturer's Name or Trademark or other recognized symbol of identification.
- Model Designation
- Month and Year of Manufacture or equivalent
- Flame spread and smoke developed ratings per ASTM E84.
- QAI logo including Listing File Number shown below.



QAI File: B1020-1

Models / Ratings: The following outlines surface burning characteristic ratings for Preferred Solutions spray-applied polyurethane foam plastic insulation per ASTM E84:

PRODUCT	DENSITY (lbs/ft ³)	MAX THICKNESS (inches)	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)
Staycell ONE STEP® 502	≤ 2.4	≤ 4	≤ 25	≤ 450
Staycell® 504	≤ 2.2	≤ 4	≤ 25	≤ 450
Staycell® 505	≤ 0.55	≤ 4	≤ 25	≤ 450

The following outlines Preferred Solutions compliant assemblies for use without a code prescribed thermal barrier per evaluation to UL 1715¹:

ASSEMBLY	PRODUCT		DENSITY (lbs/ft ³)	MAX THICKNESS (inches)	INSTALLATION
1	Staycell ONE STEP® 502		≤ 2.40	≤ 4	Walls Only. Roofs or Ceilings are protected with a code prescribed thermal barrier.
2	Staycell ONE STEP® 502		≤ 2.40	≤ 8 ½	Roofs, Floors or Ceilings Only. Walls are protected with a code prescribed thermal barrier.
3	Staycell ONE STEP® 504 Hybrid System	Base: Staycell® 504	≤ 2.20	≤ 3	Walls Only, with maximum installed thickness of 4 inches for Hybrid System. Roofs or Ceilings are protected with a code prescribed thermal barrier.
		Covering: Staycell ONE STEP® 502	≤ 2.4	≥ 1	
4	Staycell ONE STEP® 504 Hybrid System	Base: Staycell® 504	≤ 2.20	≤ 8	Roofs, Floors or Ceilings with maximum installed thickness of 8 ½ inches for Hybrid System. Walls are protected with a code prescribed thermal barrier.
		Covering: Staycell ONE STEP® 502	≤ 2.4	≥ ½	
5	Staycell® 505 Hybrid System	Base: Staycell® 505	≤ 0.55	≤ 8 Walls ≤ 7-½ Ceiling	Walls: ≤ 8" Staycell® 505 covered with minimum 26 Gauge steel. Roofs, Floors and Ceilings: ≤ 7-½" Staycell® 505 covered with ≥ ½" Staycell® ONE STEP 502 with maximum installed thickness of 8 inches for Hybrid System.
		Covering: Staycell ONE STEP® 502	≤ 2.4	≥ ½ Ceiling	

¹: The products in the assemblies were evaluated in an exposed condition and were unprotected by a code prescribed thermal barrier during the fire exposure. Products not indicated in the respective assemblies are to be protected with a code prescribed thermal barrier.

Notes: All products are spray applied using a pump system.

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