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LOS ANGELES, CA: 909.483.0250 ph. | 909.483.0336 fx.
TULSA, OK: 918.437.8333 ph. | 918.437.8487 fx.
TORONTO, ON 906.605.5444
WEBSITE: WWW.QAI.ORG

BUILDING PRODUCTS LISTING PROGRAM

Customer: Preferred Solutions, Inc.
Class: Foam Plastic Insulation
Location: 5000 Rockside Road, Suite 230, Independence, OH 44131
Listing No. B1020
Project No. B1020-1 Edition 9
Effective Date: October 8, 2026
Expires: <N/A>

Standards:

ASTM E84-26a	*Standard Test Method for Surface Burning Characteristics of Building Materials.*
ASTM E84-18	*Standard Test Method for Surface Burning Characteristics of Building Materials.*
UL 1715-22	*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 ONE STEP® 503 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

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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[1]	≤ 2.4	≤ 4	≤ 25	≤ 450
Staycell ONE STEP® 503[2]	≤ 2.4	≤ 4	≤ 25	≤ 450
Staycell® 504[1]	≤ 2.2	≤ 4	≤ 25	≤ 450
Staycell® 505[1]	≤ 0.55	≤ 4	≤ 25	≤ 450

Note 1: Tested in accordance with ASTM E84-18.
Note 2: Tested in accordance with ASTM E84-26a.

The following outlines Preferred Solutions compliant assemblies for use without a code prescribed thermal barrier per evaluation to UL 1715[1]:

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® 503		≤ 2.40	≤ 8	Roofs, Floors or Ceilings Only. Walls are protected with a code prescribed thermal barrier.
4	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	
5	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	
6	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	

Note 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.

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

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