



ICC-ES Listing Report

Reissued January 2024

ESL-1282

This listing is subject to renewal January 2025.

CSI: DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 21 00—Thermal Insulation

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: RUBITHERM® WR 40648 AND RUBITHERM® WR 40671

Listee: HUNTSMAN CORP.

Evaluation: The RUBITHERM® WR 40648 component is a polyol blend mixed with Isocyanate (Rubinate 1850), formulated potassium catalyst (RUBITHERM® WR 40544), and cyclopentane according to the manufacturer's instructions manual to form polyisocyanurate based foam insulation product.

The RUBITHERM® WR 40671 component is a polyol blend mixed with Isocyanate (Rubinate 1850), formulated potassium catalyst (RUBITHERM® WR 40544), and cyclopentane according to the manufacturer's instructions manual to form polyisocyanurate based foam insulation product.

The RUBITHERM® WR 40648 foam product and RUBITHERM® WR 40671 foam product were both evaluated when tested at a thickness of 4 inches (101.6 mm) and nominal density of 2.16 pcf (34.6 kg/m³) to the following standards:

- ASTM E84-2018B, ASTM E84-16, ASTM E84-2013A, and ASTM E84-09, Standard Test Methods for Surface Burning Characteristics of Building Materials, ASTM International.
- UL 723-2018, UL 723-2008 (revisions through August 2013), UL 723-2008 (revisions through September 2010), and UL 723-2008, Standard for Test for Surface Burning Characteristics of Building Materials, Underwriters Laboratories, LLC

Findings: The RUBITHERM® WR 40648 foam and the RUBITHERM® WR 40671 foam have a flame-spread index of 25 or less and a smoke-developed index of 450 or less, based on testing in accordance with ASTM E84 / UL 723, as referenced in the applicable sections of the following code editions:

- 2021, 2018, 2015, and 2012 *International Building Code*® (IBC)
Applicable Section: 2603.3
- 2021, 2018, 2015, and 2012 *International Residential Code*® (IRC)
Applicable Section: R316.3

Identification:

1. Containers of the RUBITHERM® WR 40648 or RUBITHERM® WR 40671 (polyol blend); RUBITHERM® WR 40544 (catalyst); and Rubinate 1850 (Isocyanate) components of polyisocyanurate foam product carry a label indicating the report holder's name (Huntsman) and address, the product name (RUBITHERM® WR 40648, RUBITHERM® WR 40671, Rubinate 1850, or RUBITHERM® WR 40544), the shelf life expiration date, the lot number, density, flame-spread and smoke developed indices, the ICC-ES listing report number (ESL-1282), and when applicable, the ICC-ES listing mark.

2. The report holder's contact information is the following:

HUNTSMAN CORP.
10003 WOODLOCH FOREST DR.
THE WOODLANDS, TEXAS 77380
(281) 719-6000
www.huntsman.com

Installation: The product must be installed in accordance with the Huntsman Corp. published installation instructions and applicable codes.

Conditions of listing:

1. The listing report addresses only conformance with the standards and code sections noted above.
2. Approval of the product's use is the sole responsibility of the local code official.
3. The listing report applies only to the materials tested and as submitted for review by ICC-ES.
4. The RUBITHERM® WR 40648 and RUBITHERM® WR 40671 components are manufactured in Geismar, Louisiana, under a quality control program with inspections by ICC-ES.