

**CSI:** DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES  
Section: 06 50 00—Structural Plastics  
Section: 06 63 00—Plastic Railings

**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:** NEWTECHWOOD ULTRASHIELD HEMISPHERE COMPOSITE GUARDRAILS

**Listee:** NEWTECHWOOD AMERICA, INC.

**Evaluation:** The NewTechWood Ultrashield Hemisphere composite top and bottom rails in NewTechWood composite guardrails are manufactured composite products consisting of rich hull powders, high-density polyethylene (HDPE), and other processing additives and are precut for installations of balusters and fabricated. The top and bottom rails are available in 72 inches (1829 mm) lengths. The Ultrashield Hemisphere composite top and bottom rails were evaluated based on testing in accordance with the following standards:

- ASTM E84-2016, ASTM E84-2013A and ASTM E84-09, Standard Test Method for Surface Burning Characteristics of Building Materials, ASTM International
- UL 723-2008 (with Revisions through September 2010), Standard for Test for Surface Burning Characteristics for Building Materials, Underwriters Laboratories, Inc.

**Findings:** The NewTechWood Ultrashield Hemisphere composite guardrails have a flame-spread index less than 75 or less and a smoke-developed index of 450 or less, when tested in accordance with ASTM E84/UL 723, as referenced in the applicable sections of the following code editions:

- 2018 *International Building Code*®  
Applicable Section: 803.1.2
- 2015 and 2012 *International Building Code*®  
Applicable Section: 803.1.1
- 2018, 2015 and 2012 *International Residential Code*®  
Applicable Section: R302.9

**Identification:**

1. The NewTechWood Ultrashield Hemisphere composite rails described in this listing report are identified by a label on each individual piece, on the packaging, bearing the NewTechWood America, Inc. name and address, the product name (Ultrashield Hemisphere Composite Rail), the allowable span for use as a top or bottom rail, as applicable, and the ICC-ES evaluation report number (ESR-4747) and/or the listing report number (ESL-1288), and when applicable, the ICC-ES Listing Mark.
2. The report holder's contact information is the following:

NEWTECHWOOD AMERICA, INC.  
15912 INTERNATIONAL PLAZA DRIVE  
HOUSTON, TEXAS 77032  
(281) 570-6450  
[www.newtechwood.com](http://www.newtechwood.com)

**Installation:** The product must be installed in accordance with the NewTechWood America, Inc.'s published installation instructions and applicable codes. The Ultrashield Hemisphere composite guardrails must be installed 42 inches (1067 mm) in height above the walking surface.

**Conditions of listing:**

1. Additional attributes and their applications can be found in the ICC-ES Evaluation Report, [ESR-4747](#).
2. The listing addresses only conformance with the standards and code sections noted above.
3. Approval of the product's use is the sole responsibility of the local code official.
4. The listing applies only to the materials tested and as submitted for review by ICC-ES.