



COMPOSITE DECKING – TREX TRANSCEND

Part 1 General

1.1 Section Includes

- A. Composite Decking - Trex Transcend

1.2 Related Sections

- A. Section 06-1100 – Wood Framing

1.3 References

- A. ASTM D-7032-04: Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails), ASTM International.
- B. ASTM D-7031-04: Standard Guide for Evaluating Mechanical and Physical Properties of Wood-Plastic Composite Products, ASTM International
- C. ASTM E-84-01: Test Method for Surface Burning Characteristics of Building Materials, ASTM International.
- D. ASTM D 570: Water Absorption of Plastics
- E. ASTM D 1761: Mechanical Fasteners in Wood
- F. ASTM D -1413-99: Test method for Wood Preservatives by Laboratory Soil-block Cultures
- G. ASTM C177: Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus

1.4 Design/Performance Requirements

- A. Structural Performance:
 - a. Deck: Uniform Load – An allowable span of 16 in. on-center and 100 lbf/sq.ft.
 - b. Tread of Stairs: Concentrated Load: An allowable span of 12 in. on-center, and 750 lbf-, and 1/8" max. deflection, with a concentrated load of 300 lbf on area of 4 sq. in.
- B. Fire-Test Response Characteristics per ASTM E-84.
 - a. Flame-spread Index of 70.

1.5 Submittals

- A. Product Data Indicate sizes, profiles, surface style, and performance characteristics
- B. Samples: For each product specified, one sample representing actual product color, size, and finish.

1.6 Delivery, Storage, and Handling

- A. Store Trex products on a flat and level surface. Support bundles on supplied dunnage.
- B. Keep material covered using the provided bundle cover until time of installation.
- C. See [www. Trex.com](http://www.Trex.com) for detailed storage recommendations:
<https://documents.trex.com/is/content/Trex/trex-care-cleaning-guide-transcend-enhance-selectpdf.pdf>

1.7 Warranty

- A. Provide manufactures warranty against rot, decay, splitting, checking, splintering, fungal damage, and termite damage for a period of 25 years for a residential installation and 10 years for a commercial installation. In addition provide the Trex Fade and Stain Warranty against food staining and fading beyond 5 Delta E (CIE units) for a period of 25 years for a residential installation and 10 years for a commercial installation. Specific terms for warranties can be found at; www.Trex.com

Part 2 Products

2.1 Manufacturers

- A. Contract Documents are based on products supplied by; Trex Company, Inc., 160 Exeter Dr., Winchester, VA 22603.
- B. Substitutions: Not permitted under Division 01

2.2 Applications/Scope

- A. Wood-Plastic Composite Lumber;
 - a. Material Description: Composite Decking consisting of recycled Linear Low Density Polyethylene (LLDPE) and recycled wood. The product is extruded into shapes and sizes as follows:
 - i. Trex Transcend Decking Boards; 1 x 5.5".
 - ii. Lengths – 12, 16, and 20 feet
 - iii. Color – To be specified by owner from Trex' standard list of colors.
 - b. Physical and Mechanical Properties as follows:

Test	Test Method	Value
Flame spread	ASTM E 84	70
Thermal Expansion	ASTM D 1037	1.9 x 10 ⁻⁵ inch/inch/degreeF
Moisture Absorption	ASTM D 1037	< 1%
Screw Head Pull-Through	ASTM D1761	161 lbf per screw**
Fungus Resistance	ASTM D1413	Rating - no decay
Termite Resistance	AWPAE1-72	Rating = 9.6

** Fastener used in testing: #8 x 2.5 in. HEADCOTE Stainless Steel Screw

2.2 Accessories

- A. Fasteners:
 - a. Trex Universal Hideaway Hidden Fasteners
 - b. Screws; See - <https://documents.trex.com/is/content/Trex/trex-recommended-fasteners-decking-fascia-2021pdf.pdf#1> for the updated recommendations on fasteners.

Part 3 Execution

3.1 Installation

- A. Install according to Trex installation guidelines:
https://documents.trex.com/is/content/Trex/2021_decking_installation_guide_012221pdf.pdf.
- B. Cut, drill, and rout using carbide tipped blades
- C. Do not use composite wood material for structural applications

3.2 Cleaning

- A. Following cleaning recommendations as found in Trex installation guide at:
<https://documents.trex.com/is/content/Trex/trex-care-cleaning-guide-transcend-enhance-selectpdf.pdf>