



COMPOSITE DECKING – TREX TRANSCEND AND TREX ENHANCE

Part 1 General

- 1.1 Section Includes
 - A. Composite Decking (Trex Transcend and Trex Enhance)
- 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 Soilblock 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 100lbf/sq.ft.
 - b. Tread of Stairs: Concentrated Load: 750 lbf/sq.ft., 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.

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. Adjust support blocks accordingly
- B. Support Trex bundles on supplied dunnage
- C. When stacking Trex bundles, supports should start approximately 8" from each end and be spaced approximately 2ft on center. Supports should line up vertically/perpendicular to the decking product.
- D. Do not stack Trex Select decking more than 14 bundles.
- E. Keep material covered using the provided bundle cover until time of installation.
- F. See www. Trex.com for detailed storage recommendations;
 - a. http://s7d4.scene7.com/is/content/Trex/Installation%20Guide%202013pdf

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 Transcend and Trex Enhance 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 and Trex Enhance 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	60(Transcend) / 85(Enhance)	
Thermal Expansion	ASTM D 1037	1.9 x 10-5 inch/inch/degreeF	
Moisture Absorption	ASTM D 1037	< 1%	
Screw Withdrawal	ASTM D1761	558 lbs/in	
Fungus Resistance	ASTM D1413	Rating - no decay	
Termite Resistance	AWPAE1-72	Rating = 9.6	
		Ultimate (Typical)Values *	Design Values
Compression Parallel	ASTM D198	1588 psi	540 psi
Compression Parallel Compression Perpendicular	ASTM D198 ASTM D143	1588 psi 1437 psi	540 psi 540 psi
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Compression Perpendicular	ASTM D143	1437 psi	540 psi
Compression Perpendicular Bending Strength	ASTM D143 ASTM D198	1437 psi 3280 psi	540 psi 500 psi

^{*} Ultimate strength values are not meant for design analysis. Design values are for temperatures up to 130F (54C)

2.2 Accessories

A. Fasteners:

- a. Trex Universal Hideaway Hidden Fasteners
- b. Screws; See http://s7d4.scene7.com/is/content/Trex/Installation%20Guide%202013pdf for the updated recommendations on fasteners.

Part 3 Execution

3.1 Installation

- A. Install according to Trex installation guidelines. http://s7d4.scene7.com/is/content/Trex/Installation%20Guide%202013pdf
- 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; http://s7d4.scene7.com/is/content/Trex/Installation%20Guide%202013pdf