



COMPOSITE DECKING – TREX SELECT®

Part 1 General

1.1 Section Includes

- A. Composite Decking - Trex Select

1.2 Related Sections

- A. Section 06-1100 – Wood Framing

1.3 References

- A. ASTM D7032: Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails), ASTM International.
- B. ASTM D7031: Standard Guide for Evaluating Mechanical and Physical Properties of Wood-Plastic Composite Products, ASTM International
- C. ASTM E84: Test Method for Surface Burning Characteristics of Building Materials, ASTM International.
- D. ASTM D570: Water Absorption of Plastics
- E. ASTM D1761: Mechanical Fasteners in Wood
- F. ASTM D1413: 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 9 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 E84.
 - a. Flame Spread Index– Class B.

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:
[Care and Cleaning Guide for Trex Transcend, Select, and Enhance Decking](#)

1.7 Warranty

- A. 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 Index | ASTM E84 | Class B |
| Thermal Expansion | ASTM D1037 | 1.9×10^{-5} inch/inch/degreeF |
| Moisture Absorption | ASTM D1037 | < 1% |
| Screw Head Pull-Through | ASTM D1761 | 161 lbf per screw** |
| Fungus Resistance | ASTM D1413 | Rating - no decay |
| Termite Resistance | AWPA E1-72 | Rating = 9.7 |

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

2.2 Accessories

- A. Fasteners:
- a. Trex Universal Hideaway Hidden Fasteners
 - b. Other recommended fasteners: [Trex Recommended Fasteners](#).

Part 3 Execution

3.1 Installation

- A. Install according to Trex installation guidelines: [2023 Trex Decking Installation Guide](#).
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:
[Care and Cleaning Guide for Trex Transcend, Select, and Enhance Decking](#)