Part 1 General

1.1 Section Includes

A. Composite Decking - Trex Transcend Tropicals and Earth Tones & Trex Transcend Lineage

1.2 Related Sections

A. Section 06-1100 – Wood Framing

1.3 References

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

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 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 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:

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flame Spread Index</td>
<td>ASTM E84</td>
<td>Class B</td>
</tr>
<tr>
<td>Thermal Expansion</td>
<td>ASTM D1037</td>
<td>$1.9 \times 10^{-5}$ inch/inch/degreeF</td>
</tr>
<tr>
<td>Moisture Absorption</td>
<td>ASTM D1037</td>
<td>$&lt; 1%$</td>
</tr>
<tr>
<td>Screw Head Pull-Through</td>
<td>ASTM D1761</td>
<td>$161 \text{ lbf per screw}^{**}$</td>
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<tr>
<td>Fungus Resistance</td>
<td>ASTM D1413</td>
<td>Rating - no decay</td>
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<tr>
<td>Termite Resistance</td>
<td>AWPA E1-72</td>
<td>Rating = 9.6</td>
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</tbody>
</table>

 ** 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