TREX COMPOSITE CLADDING

PART 1 General

1.1 Section Includes

A. Composite cladding - (Trex Transcend).

1.2 Related Sections

A. Section 05 40 00 - Cold-Formed Metal Framing.
B. Section 06 10 00 - Rough Carpentry.
C. Section 06 16 36 - Wood Panel Product Sheathing.

1.3 References

A. ASTM International (ASTM):
5. ASTM D1413 - Standard Test Method for Wood Preservatives by Laboratory Soil-Block Cultures.

B. American Iron and Steel Institute (AISI):
1. AISI S100 -NDS North American Specification for the Design of Cold Formed Steel Structural Members

C. American Wood Protection Association (AWPA):

D. Florida Building Code (FBC).


F. Intertek - Nationally Recognized Testing Facility.
1.4 Submittals
   A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
   B. Product Data: Manufacturer's data sheets on each product to be used, including:
      1. Preparation instructions and recommendations.
      2. Storage and handling requirements and recommendations.
      3. Installation methods.
   C. Samples: For each product specified, one sample representing actual product color, size, and finish.

1.5 Delivery, Storage, and Handling
   A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
   B. Store products on a flat and level surface. Adjust support blocks accordingly.
   C. See www.Trex.com for detailed storage recommendations:
      Care and Cleaning Guide for Trex Transcend, Select, and Enhance Decking

1.6 Project Conditions
   A. Maintain environmental conditions, temperature, humidity, and ventilation within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.7 Warranty
   A. Specific terms for warranties can be found at; www.Trex.com.

PART 2 Products

2.1 Manufacturers
   A. Acceptable Manufacturer: Trex Company Inc., 160 Exeter Dr., Winchester, VA 22603; www.Trex.com
   B. Substitutions: Not permitted.

2.2 Composite Cladding
   A. Design and Performance Requirements:
      1. Fire-Surface Burning Characteristics per ASTM E84.
      2. Code Compliance:
         b. Florida Building Code (FBC) - 2017. Excluding high velocity hurricane zone, HVHZ.
            1) Tested to ASTM D7032-14.
            2) Tested to ASTM E330-14.
            3) Tested to ASTM E84-16.
            4) Tested to NDS-2018.
            5) Tested to AISI S100-16
B. Wood-Plastic Composite Lumber (WPC):
   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>
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</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>588 lb/in per screw</td>
</tr>
<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>
</tr>
</tbody>
</table>

C. Fasteners:
   1. Screws: Manufactured and sold by Starborn Industries, Inc.
      a. Cladding Attachment to Wood Furring Strips:
         1) Starborn Cap-Tor xd Epoxy Coated or Stainless, 2 inch (51 mm) long.
         2) Starborn Deckfast Fascia System - Epoxy Coated or Stainless.
         3) Starborn Pro Plug System for Composite; Epoxy Coated and 305 or 316 Stainless, 2 inch (51 mm) long.
      b. Cladding Attachment to Steel Furring Strips:
         1) Starborn Pro Plug System for Composite for Metal Framing; 410SS, self-drilling.
         2) Starborn Deckfast Metal 410SS with Epoxy Coating.

PART 3 Execution

3.1 Examination
   A. Do not begin installation until substrates have been properly prepared.
   B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 Preparation
   A. Clean surfaces thoroughly prior to installation.
   B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   C. A copy of the manufacturer’s instructions must be available to installers on the jobsite during installation.

3.3 Installation
   A. Install in accordance with manufacturer’s instructions, applicable codes, and Intertek Research Report No. CCRR-0325, approved submittals, and in proper relationship with adjacent construction.
   B. Cut, drill, and rout using carbide tipped blades.
   C. Do not use composite wood material for structural applications

3.4 Cleaning
   A. Following cleaning recommendations as found in Trex installation guide at:
      Care and Cleaning Guide for Trex Transcend, Select, and Enhance Decking