

**SECTION 06 1500
WOOD DECKING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Composite wood decking.

1.02 RELATED REQUIREMENTS

- A. Section 06 1000 - Rough Carpentry: Bearing support.

1.03 REFERENCE STANDARDS

- A. ASTM D143 - Standard Test Methods for Small Clear Specimens of Timber; 2014.
- B. ASTM D198 - Standard Test Methods of Static Tests of Lumber in Structural Sizes; 2015.
- C. ASTM D1761 - Standard Test Methods for Mechanical Fasteners in Wood; 2012.
- D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2018.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide technical data for products and accessories.
- C. Shop Drawings: Indicate deck framing system, loads and cambers, bearing details, and framed openings.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with at least three years of experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified in this section, with at least three years of experience.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Composite Wood Decking:
 - 1. Azek Building Products, Inc: www.azek.com/#sle.
 - 2. TAMKO Building Products, Inc: www.tamko.com/#sle.
 - 3. Trex Company, Inc: www.trex.com/#sle.
 - 4. Substitutions: See Section 01 6000 - Product Requirements.

2.02 WOOD MATERIALS

- A. Wood fabricated from old growth timber is not permitted.
- B. Composite Decking: Hardwood mixed with plastic and molded into standard lumber board sizes and accessory shapes; minimum plastic content of 40 percent.
 - 1. Texture: Molded wood grain finish one side; smooth, matte finish on the other.
 - 2. Color: Select from manufacturer's standard colors.
 - 3. Edges, Field Boards: Tongue and groove.
 - 4. Surface Burning Characteristics: Flame spread index of 80, maximum; smoke developed index of 200, maximum; when tested in accordance with ASTM E84.
 - 5. Resistance to Fastener Withdrawal When Tested in Accordance With ASTM D1761:
 - a. Nail (8d common wire): 163 pounds per inch.

- b. Screw (#10 wood screw): 558 pounds per inch.
- 6. Compressive Strength Parallel to Length When Tested in Accordance with ASTM D198:
 - a. Design: 550 pounds per square inch.
 - b. Ultimate: 1500 pounds per square inch.
- 7. Compressive Strength Perpendicular to Length When Tested in Accordance with ASTM D143:
 - a. Design: 540 pounds per square inch.
 - b. Ultimate: 1400 pounds per square inch.
- 8. Shear Strength When Tested in Accordance With ASTM D143:
 - a. Design: 200 pounds per square inch.
 - b. Ultimate: 561 pounds per square inch.

2.03 ACCESSORIES

- A. Fasteners and Anchors:
 - 1. Fastener Type and Finish for Composite Decking: Stainless steel, trim head.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that support framing is ready to receive decking.

3.02 PREPARATION

- A. Coordinate placement of bearing items.

3.03 INSTALLATION - BOARD DECKING

- A. Install decking perpendicular to framing members, with ends staggered over firm bearing. On sloped surfaces, lay decking with tongue upward.
- B. Fit butt end deck joints occurring between support members with metal splines to maintain tight, aligned joints.
- C. Engage decking tongue and groove edges.
- D. Secure with fasteners. Side spike planks together, through pre-drilled holes.
- E. Maintain decking joint space of 1/16 inch maximum.
- F. Cut decking to accommodate roof drain and flange.

3.04 TOLERANCES

- A. Surface Flatness of Decking Without Load: 1/4 inch in 10 feet maximum, and 1/2 inch in 30 feet maximum.

END OF SECTION