

# Guide Specification

## Section 07760 Roof Pavers

### Boulevard Thermally-Modified Structural Wood Tiles

#### 1.0 GENERAL

#### 1.1 WORK INCLUDED

- A. Provision of complete, pre-engineered wood tiles

#### 1.2 RELATED WORK

- A. Section 033000 Cast-in-Place concrete
- B. Section 042200 Concrete Masonry Units
- D. Section 061520 Composite Synthetic & Other Decking
- F. Section 075000 Membrane Roofing
- G. Section 077200 Roof Accessories
- H. Section 096900 Access Flooring
- I. Section 321400 Unit Pavers

#### 1.3 REFERENCES

- A. American Wood Protection Association (AWPA)
  - Guidance Document N – *Data Requirements for Listing Thermally Modified Wood*
  - Standard U1 - *Use Category System: User Specification for Treated Wood*
  - Standard E1- *Method for Laboratory Evaluation to Determine Resistance to Subterranean Termites*
  - Standard E7 - *Method of Evaluating Wood Preservatives by Field Tests with Stakes*
  - Standard E9 - *Field Test for the Evaluation of Wood Preservatives to be Used in Non-Soil Contact*
  - Standard E10 - *Method of Testing Wood Preservatives by Laboratory Soil-Block Cultures*
  - Standard E12 - *Method of Determining Corrosion of Metal in Contact with Treated Wood*
  - Standard E14 - *Method of Evaluating Wood Preservatives in a Soil Bed*
  - Standard E21 - *Test Method for the Evaluation of Preservative Treatments for Lumber and Timbers Against Subterranean Termites in Above-Ground, Protected Applications*
- B. American Society for Testing and Materials (ASTM)
  - ASTM D5664 - *Standard Test Method for Evaluating the Effects of Fire-Retardant Treatments and Elevated Temperatures on Strength Properties of Fire-Retardant Treated Lumber*
  - ASTM D3201 - *Standard Test Method for Hygroscopic Properties of Fire-Retardant Wood and Wood-Based Products*
  - ASTM E1354 - *Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter*

#### 1.4 SUBMITTALS

- A. Product Data: Manufacturer's standard catalog cut sheets, including storage, handling and installation instructions.
- B. Shop Drawings: Contractor to submit shop drawings indicating the tile size, pattern and grid layout, starting point and finished elevation as endorsed by the manufacturer or its approved representative.
- C. Samples as required for typical wood color & characteristics

#### 1.5 DELIVERY, STORAGE AND HANDLING

- A. Inspect tiles after delivery for signs of damage during transit.
- B. Protect tiles from damage during storage and handling.
- C. Store tiles out of sunlight. Do not allow tiles to be stored tightly wrapped in plastic.

#### 1.6 PROJECT CONDITIONS

- A. Contractor to provide adequate structural support for tiles and/or pedestals.
- B. Tiles and pedestals are designed for pedestrian traffic only. Other heavy architectural elements require additional support. Surfaces must be bounded by blocking or walls, whether on rooftops or on grade.

#### 1.7 WARRANTIES

- A. Standard manufacturer's warranty against defect in materials or workmanship, outlining terms & conditions for minimum period of three years from installation.

### 2.0 PRODUCTS

#### 2.1 ACCEPTABLE PRODUCTS/MANUFACTURERS

- A. Boulevard thermally-modified Structural Wood Tiles provided by Tournesol Siteworks, 30955 San Antonio St., Hayward, CA 94544 Tel: (800)542-2282 FAX (510)471-6243

#### 2.2 THERMALLY-MODIFIED STRUCTURAL WOOD TILES

- A. Materials
  - 1. Slats and supports shall be manufactured from Boulevard thermally-modified wood, certified conforming to AWWA Use-Class UC3B, Above Ground, Exposed (see AWWA Guidance N for required tests). Tile manufacturer should be able to present certification, and documentation of the quality processes used during thermal modification. Base woods shall be FSC-certified Red Oak or Ash (if forest sourced), or certified Urban Forest Products Alliance (UFPA) urban-sourced wood. Tiles shall be sourced & processed entirely in the U.S. Manufacturer shall provide certification of Class A fire spread rating.
  - 2. Fasteners shall be star-head stainless steel wood screws designed for outdoor applications.

B. Construction

1. Structural wood slats shall be glued with waterproof wood glue prior to fastening with wood screws
2. Wood screws shall be located a minimum of 1" from end of each slat, and each hole shall be pre-drilled prior to screwing.
3. Slats shall be available in either grooved/anti-slip or smooth tread, as determined by architect
4. Corners shall be notched with ¼" wide x 1" slot to accommodate tile fastener

C. Color: Medium brown/190deg toast. Dark brown/210deg toast is available as special order. Color and appearance is a natural feature of wood, and may vary slightly from slat to slat and tile to tile. Wood will naturally patina when left untreated.

D. Sizes: 23-7/8" x 23-7/8" x 1-5/8" (weight 13 lbs), 47-7/8" x 23-7/8" x 1-5/8" (weight 26 lbs)

## 2.3 TILE ACCESSORIES

A. Structural Wood Tile Fastening System

1. For use with VersiJack or Spirapave paver support systems
2. Part No. EA-TF01 fastener required with each pedestal. Includes ¼" spacer tab, sliding fastener support and SS304 attachment screw. Sliding fastener shall allow for removal of two tiles at a time.

## 3.0 EXECUTION

### 3.1 PREPARATION

- A. Surface on which tiles will be placed must be capable of supporting load, clean and free of debris.
- B. The finished elevation less the timber deck or paver thickness shall be established and marked around the perimeter with laser leveling devices or other water level
- C. Mark grid lines representing intersections of pavers across area, corresponding to plans.

### 3.2 INSTALLATION

- A. Boulevard Structural Wood Tiles may be cut, drilled, or otherwise modified similar to red oak or ash lumber. No special precautions or tools are required.
- B. For installation on pedestals, refer to paver support manufacturer's instructions.
- C. For installation on joist systems, refer to engineer's or architect's plans.

### 3.3 POST-INSTALLATION

- A. Repair or touch-up any damaged tiles
- B. Inspect that all paver spacing is ¼" on all sides and at edge of deck.
- C. Verify that the entire deck is contained, and that no areas are unsupported
- D. Inspect that there is no "rocking" of tiles on pedestals
- E. Perform periodic inspections of deck to ensure that structural wood tiles do not separate or rock, creating a tripping hazard. If tiles are fire-proofed, reapplication of fire retardant coating should be performed every 3-5 years.