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## SECTION 06 15 00

### THERMALLY MODIFIED WOOD DECKING SYSTEM

#### PART 1 GENERAL

##### 1.1 SUMMARY

- A. Thermally Modified Wood Decking products including the following:
  - 1. Wood decking.
  - 2. Wood trim boards.
- B. Related Sections: Refer to the following specification sections for coordination
  - 1. Section 06 10 00 - Rough Carpentry.
  - 2. Section 07 60 00 - Flashing and Sheet Metal.
  - 3. Section 09 90 00 - Painting and Coating.

##### 1.2 REFERENCES

- A. American Wood Protection Association (AWPA):
  - 1. Guidance Document N – Data Requirements for Listing Thermally Modified Wood
  - 2. AWPA E10-14 – Soil Block Decay Test
- B. American Society for Testing and Materials (ASTM):
  - 1. ASTM D143 – Standard Test Methods for Small Clear Specimens of Timber.
  - 2. ASTM D2395 – Standard Test Methods for Density and Specific Gravity (Relative Density) of Wood and Wood-Based Materials

##### 1.3 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. Material descriptions, dimensions, and profiles.
  - 2. Preparation instructions and recommendations.
  - 3. Storage and handling requirements and recommendations.
  - 4. Installation methods.
- C. Samples: Submit representative sample of actual thermally modified wood decking material and hidden deck fastener clips.
- D. Verification Samples: For each finish product specified, two samples, 6 inches (152 mm) long minimum samples of decking and trim in selected finish and color.
- E. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.

- F. Test Reports: Submit manufacturer's test reports from testing performed by qualified, independent testing laboratories.
- G. Product Evaluation Reports: Submit manufacturer's product evaluation reports from accredited, evaluation service.
- H. Warranty Documentation: Submit manufacturer's standard warranty

#### 1.4 QUALITY ASSURANCE

- A. Single Source: To ensure functional and appearance compatibility, thermally modified wood decking, concealed fasteners and all trim pieces shall be products by Arbor Wood Co.
- B. Regulatory Requirements: Comply with requirements of authorities having jurisdiction and applicable codes at the location of the project.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle materials in accordance with manufacturer's instructions.
- B. Store thermally modified wood decking on flat, level surface, raised above floor or ground, with adequate support to prevent sagging.
- C. Keep thermally modified wood decking covered and free of dirt, debris, and moisture until installation.
- D. Protect materials and finish during storage, handling, and installation to prevent damage.

#### 1.6 WARRANTY

- A. Manufacturer's Warranty: Provide manufacturer's standard 20-year warranty for Thermally Modified Wood Decking. *(when finished per manufacturer recommendations)*

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Arbor Wood Co., which is located at: 1025 London Rd, Duluth, MN 55802; Toll Free Tel: 1-855-414-2727; Email: [hello@arborwoodco.com](mailto:hello@arborwoodco.com); Web: [arborwoodco.com](http://arborwoodco.com)
- B. Decking and trim shall be manufactured from Arbor Wood Co. thermally modified wood, certified conforming to AWWPA Use-Class UC3B, Above Ground, Exposed (see AWWPA Guidance N for required tests). Manufacturer should be able to present certification, and documentation of the quality processes used during thermal modification. Wood shall be sourced & processed entirely in the U.S.
- C. Substitutions: Not permitted.

#### 2.2 THERMALLY MODIFIED WOOD DECKING

- A. Arbor Wood Co. Thermally Modified Wood Decking:
  - 1. Wood decking attached with hidden deck fastener system.
  - 2. Species: Thermally Modified White Ash or Southern Yellow Pine.
  - 3. Grade: FAS / Select & Better.
  - 4. Actual Sizes:
    - a. Ash - 1" x 5-1/2", 1" x 3-1/2", 3/4" x 5-1/2"
    - b. Pine - 1" x 5-1/4"
  - 5. Length: 6'-0" or Longer.
  - 6. Exposed Texture: Smooth.

7. Color: Color and appearance is a natural feature of wood, and may vary slightly from one piece to another. Wood will naturally patina when left unfinished.

## 2.3 THERMALLY MODIFIED WOOD TRIM

- A. Arbor Wood Co. Thermally Modified Wood Trim:
  1. Species: Thermally Modified White Ash or Southern Yellow Pine.
  2. Grade: FAS / Select & Better.
  3. Size: 1 x 2, nominal; 3/4 x 1-1/2 inches, actual.
  4. Size: 1 x 4, nominal; 3/4 x 3-1/2 inches, actual.
  5. Size: 1 x 6, nominal; 3/4 x 5-1/2 inches, actual.
  6. Size: 5/4 x 6, nominal; 1 x 5-1/2 inches, actual.
    - a. Profile: E4E or S4S without hidden fastener grooves.
  7. Length: 6'-0" or Longer.
  8. Exposed Texture: Smooth.
  9. Color: Color and appearance is a natural feature of wood, and may vary slightly from one piece to another. Wood will naturally patina when left unfinished.

## 2.4 FASTENERS

- A. Hidden Deck Fasteners: DeckWise, Ipe clips, Extreme KD hidden fastener systems, corrosion resistant, black oxide stainless steel inserts coated in malleable UV and chemical-resistant polypropylene secured with DeckWise screws.
- B. Additional Components/Accessories:
  1. DeckWise Colormatch Deck Screws
    - a. 305 grade stainless steel,
    - b. T15 Star drive finish heads
    - c. Type 17 auger tips
    - d. #8x1 1/2", #8x2", #8x2 1/2", #8x3 1/8"
    - e. Shadowline Black, Hardwood Brown, or Stainless Steel Head Finish.
  2. DeckWise Hardwood Plugs.
  3. As indicated on Drawings.
- C. Fasteners(where face nailing or fastening is required only):
  1. Type: Screws. #7 stainless steel w/ trim head.
  2. Type: As indicated on Drawings.

## 2.5 FINISHES

- A. Wood Finish: (manufacturer recommended):
  1. Cutek Extreme Penetrating Oil
  2. Color to be selected from manufacturer's full range.
  3. For additional information see Section 09 90 00 - Painting and Coating.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Confirm that all critical dimensions are as specified on the drawings. Examine wood framing members to receive Arbor Wood Co. thermally modify wood decking system.
- B. Notify Architect of conditions that would adversely affect installation. Do not begin installation until unacceptable conditions are corrected.

### 3.2 PREPARATION

- A. Repair substrate flaws or defects before applying decking or trim.

- B. Where necessary, fur surfaces to an even plane and free from obstructions before application.

### 3.3 INSTALLATION

- A. Install Arbor Wood Co. decking and trim in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. DeckWise clip hidden deck fastener system installation guidelines are available from manufacturer. Install in accordance with manufacturer's instructions
- C. Do not install Arbor Wood Co. decking or trim in structural or load-bearing applications.
- D. Install Arbor Wood Co. decking and trim plumb, level, square, and true to line.
- E. Install exterior Arbor Wood Co. decking and trim with flush, tight joints.
- F. Fastening: Install fasteners in accordance with local building code.
  - 1. Decking Installation with Hidden Fastener System:
    - a) Maximum of 16 inches on center.
    - b) At Butt joints 1 clip each side of joint.
- G. Install decking, trim, and accessories in accordance with best practice, with all joint members plumb and true.
- H. Fill any nail and screw holes with wood plugs to match finished color.
- I. Finishing:
  - 1. Apply Cutek Extreme Penetrating Oil
    - a. Pre-finish Decking and Trim before installation per Finish Manufacturers Recommendations.
    - b. As specified in this Section and/or Section 09 90 00 - Painting and Coating.

### 3.4 ADJUSTING

- A. Repair minor damages to Arbor Wood Co. decking in accordance with manufacturer's instructions and as approved by Architect.
- B. Remove and replace with new material, damaged Arbor Wood Co. decking that cannot be successfully repaired, as determined by Architect.

### 3.5 CLEANING AND PROTECTION

- A. After application of decking and trim, clean as necessary to remove all fingerprints and soiled areas.
- B. Upon completion of decking application, clean entire area, removing all scrap, packaging, and unused materials related to this work.
- C. Protect installed Arbor Wood Co. decking to ensure that, except for normal weathering, siding will be without damage or deterioration at time of Substantial Completion.

END OF SECTION