

SECTION 061533 - WOOD PATIO DECKING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Wood decking.
2. Support framing (sleepers) for elevated decks.

B. Related Requirements:

1. Section 061535 "Modular Wood Panel Decking" for pedestal-mounted wood panel decking systems.
2. Section 099300 "Staining and Transparent Finishing" for field finishing wood decking.

1.2 ACTION SUBMITTALS

A. Product Data: For metal framing anchors and concealed decking fasteners.

B. Samples: For decking materials, not less than 24 inches (600 mm) long, showing range of variation to be expected in appearance of decking.

PART 2 - PRODUCTS

2.1 WOOD DECKING

A. Board Decking: 3/4-inch actual thickness by 5-1/2-inch actual width square-edged S4S boards, with one face free of planer skip, machine burn, and torn or chipped grain.

1. Species: Ipe.
2. Grade Characteristics:
 - a. Clear.
 - b. All heart one face.
 - c. Straight grained and parallel cut.
 - d. Free of heart centers.
 - e. No decay, incipient decay, honeycomb, knot holes, shakes, splits, or wane.
 - f. No discoloration.

3. Maximum Moisture Content: 19 percent.

B. End Sealer for Field Cuts: Product recommended by manufacturer to coat and protect cut ends of Ipe lumber to prevent splitting and checking prior to installation.

1. Basis-of-Design Product: DeckWise; Ipe Seal™ Hardwood End Grain Sealer.

2.2 DIMENSION LUMBER

A. Deck Framing: Construction or No. 2 grade and any species.

1. Maximum Moisture Content: 19 percent.

2.3 FIRE-RETARDANT-TREATED MATERIALS

- A. General: Where fire-retardant-treated materials are indicated, materials shall comply with requirements in this article, that are acceptable to authorities having jurisdiction, and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.
- B. Fire-Retardant-Treated Lumber by Pressure Process: Products with a flame-spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.
 - 1. Basis-of-Design Product: Hoover Treated Wood Products, Inc.; EXTERIOR FIRE-EX®.
 - 2. Exterior Type: Treated materials shall comply with requirements specified above for fire-retardant-treated lumber and plywood by pressure process after being subjected to accelerated weathering according to ASTM D 2898.
- C. Kiln-dry lumber after treatment to maximum moisture content of 19 percent.
- D. Identify fire-retardant-treated wood with appropriate classification marking of qualified testing agency.
- E. Application: Treat items indicated on Drawings and the following:
 - 1. Framing members.
 - 2. Sills and ledgers.
 - 3. Members in contact with masonry or concrete.

2.4 FASTENERS

- A. General: Provide fasteners of size and type indicated, acceptable to authorities having jurisdiction, and that comply with requirements specified in this article for material and manufacture. Provide nails or screws, in sufficient length, to penetrate not less than 1-1/2 inches (38 mm) into wood substrate.
 - 1. Use stainless steel unless otherwise indicated.
- B. Postinstalled Anchors: Stainless-steel, chemical or torque-controlled expansion anchors with capability to sustain, without failure, a load equal to 6 times the load imposed when installed in unit masonry assemblies and equal to 4 times the load imposed when installed in concrete as determined by testing according to ASTM E 488 conducted by a qualified independent testing and inspecting agency.
 - 1. Stainless-steel bolts and nuts complying with ASTM F 593 and ASTM F 594, Alloy Group 1 or 2 (ASTM F 738M and ASTM F 836M, Grade A1 or Grade A4).

2.5 METAL FRAMING ANCHORS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Cleveland Steel Specialty Co.
 - 2. KC Metals Products, Inc.
 - 3. Phoenix Metal Products, Inc.
 - 4. Simpson Strong-Tie Co., Inc.
 - 5. USP Structural Connectors.
- B. Stainless-Steel Sheet: ASTM A 666, Type 304.

2.6 CONCEALED DECKING FASTENERS

- A. Deck Fastener System: Corrosion-resistant metal or plastic units that fit in grooves routed into the sides of decking material and are fastened to deck framing with screws. Splines provide uniform spacing of decking material.
 - 1. Basis-of-Design Products: Subject to compliance with requirements, provide The Ipe Clip Fastener Company Inc.; Ipe Clip EXTREME4 or EXTREME KD Fasteners.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Apply specified finish treatment to wood decking, including both faces and edges. Cut to required lengths and apply specified end sealer. Comply with requirements in Section 099300 "Staining and Transparent Finishing."

3.2 INSTALLATION, GENERAL

- A. Set work to required levels and lines, with members plumb, true to line, cut, and fitted. Fit work to other construction; scribe and cope as needed for accurate fit.
- B. Framing Standard: Comply with AF&PA WCD1 unless otherwise indicated.
- C. Install wood decking with crown up (bark side down).
- D. Secure decking to framing with deck splines or similar concealed fasteners acceptable to Architect.
- E. Install metal framing anchors to comply with manufacturer's written instructions.
- F. Apply copper naphthenate field treatment to comply with AWWA M4, to cut surfaces of preservative-treated lumber.
- G. Apply end sealer field treatment to cut surfaces of decking lumber.
- H. Securely attach carpentry to substrate by anchoring and fastening as indicated, complying with the following:
 - 1. ICC-ES AC70 for power-driven fasteners.
 - 2. "Fastening Schedule" in ICC's International Building Code.

END OF SECTION