

Tropical Forest Products, 1-905-672-8000 or 855-344-4500  
info@tropicalforestproducts.com

SECTION 061500

WOOD DECKING, LUMBER AND TIMBERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide labor, materials and equipment necessary to complete the work of this Section, including the following:
  - 1. Wood decking, lumber, stringers, beams, and timbers for the following applications:
    - a. Decks.
    - b. Bridges
    - c. Boardwalks
    - d. Docks
    - e. Marinas
    - f. Walkways.
    - g. Cladding.
    - h. Rain Screen
    - i. Conservatories.
    - j. Site furnishings.
    - k. Pavilions.
    - l. Pergolas.
    - m. Porte cochere.
    - n. Lattice.
    - o. Arbors.
    - p. Greenhouses.
    - q. Paneling.
    - r. Ceilings.
    - s. Marine Constructions
    - t. Other exterior and marine constructions.
- B. Related Work: The following items are not included in this Section and will be performed under the designated Sections.
  - 1. Section 061000 – ROUGH CARPENTRY for other rough carpentry work.
  - 2. Section 062000 – FINISH CARPENTRY for other finish carpentry work.
- C. Reference Standards: Comply with applicable requirements of the following:
  - 1. Tropical Forest Products™ Grading Rules
  - 2. Allowable Design Values By Grade
  - 3. ANSI A137.1 sec 9.6 – Standard Test Method for Determining the Static and Dynamic Coefficient of Friction of Ceramic Tile and Other Like Surfaces.
  - 4. ASTM D143 – Standard Test Methods for Small Clear Specimens of Timber.
  - 5. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
  - 6. LEGAL LUMBER™ “Due Care” Standards Policies and Procedures

## TFP BLACK LABEL PREMIUM SELECT ARCHITECTURAL GRADE IPE DECKING, LUMBER AND TIMBERS

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7. U.S. Lacey Act.
8. U.S. Buy American Act.
9. U.S. Foreign Corrupt Practices Act
10. U.S. Forced Labor Laws

#### 1.2 SUBMITTALS

- A. Submittals: Submit under provisions of Division 01.
- B. Product Literature: Manufacturer's product literature describing all components.
- C. Verification Samples: For each type of decking, lumber and timbers.
- D. Certificates of
- E. Environmental Certificates of Compliance:
- F. Certificates of Compliance Technical: Submit documentation of the following.
  1. Certificate of Compliance "Inspection": A vendor certificate confirming product compliance with grade and quality requirements.
  2. Certificate of Compliance "Technical": A vendor certificate confirming product compliance with minimum specified Physical, Mechanical and Technical performance requirements as defined by the specification.
  3. Certificate of Compliance Allowable Design Values.
  4. MSDS (Material Safety Data Sheet) – Submit a Material Safety and Data Sheet for the wood products supplied on the project.
  5. Grading Rules – Supplier Written Grading Rules and Definitions".
  6. Best Practices: 'Best Practice Guide' or other relevant installation guides.
- G. Certificates of Compliance Environmental: Submit documentation of the following.
  1. Certificate of Compliance, LEGAL LUMBER™: Submit a certificate confirming compliance with LEGAL LUMBER™ 'Due Care' Standards, Policies and Procedures, Life Cycle Impact, CITES, U.S. Buy American Act, U.S. Foreign Corrupt Practices Act, U.S. Forced Labor Laws, U.S. Lacey Act, Third Party Controlled Wood (Unifloresta or Equal), Chain of Custody, Verification of Legal Origin, and Legal Compliance.

#### 1.3 QUALITY ASSURANCE

- A. Manufacturer/Vendor Qualifications: Products covered under this Section shall be supplied by a single manufacturer/vendor unless otherwise specified with a minimum of five years proven production or supply experience.
- B. Installer Qualifications: Installer shall have a minimum of three years proven construction experience and be capable of estimating and building from drawings and details, determining elevations, in addition to proper material handling.

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- C. Pre-installation Conference: Conduct conference by phone or on site to comply with requirements in Division 01.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Protect materials during shipment, storage and construction against damage. If material is air dried, stickers of a minimum of 10mm shall be placed between each layer of boards when packed. If material is kiln dried, material shall be dense packed and wrapped.
- B. All units shall be individually strapped to wood pallets or blocking of a minimum thickness to allow the egress of lift forks using high strength strapping with a minimum of 4 straps per crate.
- C. Store a minimum of 4 inches off the ground in a dry location and cover with polyethylene to protect from contact with materials which would cause staining or discoloration.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURER

- A. Basis-of-Design: Ipe, Tabebuia spp. Lapacho Group species by Tropical Forest Products, Tel 905-672-8000, www.tropicalforestproducts.com

#### 1. Grade Option:

- 1.1 BLACK LABEL™ Premium Select Architectural Grade Clear Mixed Grain Inspected for serviceable appearance 4 Face 4 Edge  
Include - Appearance characteristics.  
Include - Limited Tight Reverse Grain.  
Include - Physical characteristics which can be removed using normal installation methods, tools, or sanding.  
Exclude - Sound defects.  
Exclude - Unsound defects.  
Exclude - Milling defects.  
Exclude Pin Knots bigger than ½" at any face and/or edge, Maximum Permitted Slope of Grain 1" in 10", Length of End Split and Surface Split shall be as per ASTM D245 (5.4.3)

#### 2. Moisture Content: **Select One**

- a. Air Dried, moisture content of 18 to 25 percent; all dimensions when net thickness is over 1 inch.
- b. Kiln Dried, moisture content of 12 to 14 percent; all dimensions when net thickness is 1 inch or less.

#### 3. Surface Options: **Select One**

- a. S4SE4E (surfaced four sides, eased four edges). Surfaces shall be planed smooth, Edges shall be eased to a radius of 1/8 inch.

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- b. Rough Sawn. Surface shall be rough sawn, Edges shall be square.
    - c. Custom profiled. Profiles shall be as per plans and specifications.
  4. Length Options: **Select One**
    - a. Lumber shall be supplied over specified length for final fit in the field.
    - b. Lumber shall be supplied precision trimmed to specified lengths.
  5. Dimensions on Drawings: Nominal and Actual Size shall be listed.
  6. Dimensional Tolerance: Plus or minus 0.125 inch in width and 0.0625 in thickness, measured at 25 percent moisture content.
  7. End Coating: Supply lumber with ends sealed with Black Label™™, Paraffin “Or Equal” wax end sealer. Lumber shall be resealed after cutting to reduce end splits.
- B. Mechanical Properties: Meet or exceed the following Maximum Mechanical Properties when tested in accordance with ASTM D143:
  1. Bending Strength: 22,445 psi
  2. Modulus of Elasticity: 3,145,000 psi/
  3. Compression Parallel to Grain: 13,140 psi.
  4. Compression Perpendicular to Grain: 3,595 psi.
  5. Shear Parallel To Grain: 2,290 psi
  6. Average Air-Dry Density: Ranges from 56.7 to 59.3pcf.
  7. Basic Specific Gravity: Ranges from 0.85-0.97.
- C. Allowable Design Values For Wood Based On ASTM 245 - Dimension Lumber and Decking (1” to 4” thick by 2” and wider): Meet or exceed the following when graded according to TFP Grading Rules and Tested in Accordance with ASTM D-143
  - D.1 Premium Select Architectural Grade:
    1. Bending Strength: 6,750 psi
    2. Modulus of Elasticity: 3,300,000 psi/
    3. Compression Parallel to Grain: 3,800 psi.
    4. Compression Perpendicular to Grain: 2,205 psi.
    5. Shear Parallel To Grain: 995 psi.
    6. Average Air-Dry Density: Ranges from 56.7 to 59.3pcf.
    7. Basic Specific Gravity: Ranges from 0.85-0.97.
  - D. Allowable Design Values For Wood Based On ASTM 245 – Beams and Stringers (4” and thicker, width more than 2” greater than thickness): Meet or exceed the following when graded according to TFP Grading Rules and Tested in Accordance with ASTM D-143:
    - E.1 Premium Select Architectural Grade
      1. Bending Strength: 8,850 psi
      2. Modulus of Elasticity: 3,300,000 psi/

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3. Compression Parallel to Grain: 4,300 psi.
  4. Compression Perpendicular to Grain: 2,205 psi.
  5. Shear Parallel To Grain: 995 psi.
  6. Average Air-Dry Density: Ranges from 56.7 to 59.3pcf.
  7. Basic Specific Gravity: Ranges from 0.85-0.97.
- E. Coefficient of Friction: Meet or exceed the minimum Static and Dynamic Coefficient of Friction as required by International Building Code in accordance with ANSI A137.1 sec 9.6 standard testing method:
1. Static Minimum: Wet .60 FP.
  2. Dynamic Minimum: Wet .42 FP.
- F. Decay Resistance: Meet or exceed International Building Code/International Residential Code requirements for “Naturally Durable Wood” being durability rated by the U.S Forest Products Laboratory or the Forest Research Laboratory Oregon State University as Class 2 or better. Ipe (Tabebuia spp, Lapacho Group) – Class 1.
- G. Fire Rating, Acute Inhalation, Combustion and Toxicity Requirements: Meet or exceed the following.
1. Lumber supplied shall be naturally fire resistant without the use of any fire resistant treatments to meet NFPA Class A / Limited Combustible Materials, UBC Class 1 accordance with ASTM E-84 standard test methods.
  2. Lumber supplied shall be approved by CalFire Wildlife Urban Interface Areas – Materials and Construction Methods, Exterior Wildlife Exposure: Decking Code Section Chapter 7A(CSFM 12-7A-4).
  3. Lumber Supplied shall meet International Building Code / International Residential Code minimum requirements for “Limited Combustible Wood”.
- H. Environmental Compliance:
1. LEGAL LUMBER™ Compliance: All lumber shall meet minimum environmental requirements as defined under LEGAL LUMBER™ Controlled Wood, Chain of Custody, Life Cycle Impact and Due Care – Environmental Compliance Standards, Policies and Procedures confirming that:
    - a. All wood products supplied have been verified of legal origin and compliance as being, legally harvested, transported, exported, imported and documented in compliance with all country of origin, international and domestic laws, rules, regulations and treaties pertaining to the fair and legal trade of forest products including but not limited to the U.S. Department of Agriculture Lacey Act, ITTA (International Tropical Timber Trade Agreement), CITES (Convention On The International Trade of Endangered Species), U.S. Buy American Act, U.S Foreign Corrupt Practices Act, U.S. Forced Labor Laws.
    - b. All wood products supplied are derived from forests which are naturally occurring, renewable and sustainable and are not harvested from forests or forest plantations where traditional or civil rights have been violated, forests having high conservation values which are threatened, forests that have been genetically modified or forests which have been converted to non-forest use. All Black Label™ wood products and their packaging materials have been kiln dried and or fumigated and are free from live and or invasive insect, plant or animal species.

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- c. All wood products are 100 percent organic and grown without the use of chemical fertilization and are regenerated naturally or by seeding and replanting. The natural service life of wood products in the intended application, exceed their natural growth cycle, trap and store carbon and are able to be reclaimed, reused or recycled. The wood products supplied do not require for service any petroleum based or inorganic chemical treatments adhesives or coatings. The wood products supplied do not require for service any specialized handling storage or disposal procedures and generate zero post-industrial or post-consumer non-biodegradable waste. The wood products supplied are also safe for human and animal contact, meet Low VOC emission standards and meet International Building Code and International Residential Code requirements for naturally durable wood.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Prior to starting work inspect the substrate to ensure that it has been properly prepared to accept materials specified in this Section. Commencement of work shall imply acceptance of surfaces and or conditions.
  1. Review drawings to determine if materials specified are appropriate for the specified applications.
  2. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
  3. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved submittals including the following:
  1. Manufacturers Best Practices.
  2. Install materials plumb, true to line, cut and fitted.
  3. Scribe and cope as required for accurate fit to adjacent construction.
  4. Use manufacturer's recommended fasteners.
  5. Fasten tight to supports. Provide shims if there are variations in framing.

#### 3.3 CLEANING AND PROTECTION

- A. Protect from damage during construction operations. Promptly repair any damaged surfaces. Remove and replace work which cannot be satisfactorily repaired.
- B. Clean using materials recommended by the manufacturer to remove stains, dirt and debris prior to final acceptance.

END OF SECTION