SECTION 06 15 00

HARDWOOD DECKING

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\*\* NOTE TO SPECIFIER \*\* Advantage Lumber, LLC ; Hardwood decking products.  
This section is based on the products of Advantage Lumber, LLC , which is located at:  
601 Ohio St.  
Buffalo, NY 14203  
Toll Free Tel: 877-232-3915   
Tel: 716-827-3915   
Fax: 716-827-3916  
Email: [request info (jon@advantagelumber.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Advantage+Lumber,+LLC+&coid=45081&rep=&fax=716-827-3916&message=RE:%20Spec%20Question%20(06150adv):%20%20&mf=)  
Web: <http://www.advantagelumber.com>   
  
 [ [Click Here](https://www.arcat.com/arcatcos/cos45/arc45081.html) ] for additional information.  
  
Advantage Lumber, LLC is a global leader in wood decking, lumber, and flooring materials. Since 1992, courteous service, helpful advice, and attention to detail have been the reasons why customers from across the globe purchase our materials. Throughout Brazil and South America, our lumber mills manufacture premium grade decking and lumber including Ipe, Cumaru, Tigerwood, Massaranduba, Garapa, and more. Every decking order we fulfill is compliant with the LACEY Act and the standards set by international agencies such as IBAMA. You benefit from our entire manufacturing process because you get the highest quality decking and lumber products at the lowest possible cost.  
From domestic North American hardwoods to richly colored Exotics from around the world, no other lumber company offers you over 70 of the world's finest species of hardwoods. We custom mill a variety of products and are fully-equipped to fulfill your custom lumber needs. Order Online or Call Us Directly 1.877.232.3915 today to order premium grade exotic hardwood decking, quality flooring, and custom dimensioned hardwood lumber.  
Advantage Lumber, LLC has distribution and manufacturing locations in Buffalo, NY, Grover, NC, Santa Fe Springs, CA and an International and Wholesale Division in Sarasota, FL

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Hardwood decking and dimension lumber.
    2. Hardwood deck tiles and accessories.
    3. Hardwood handrail.
    4. Cable railing components.
    5. Decking Accessories.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 03 30 00 - Cast-in-Place Concrete.
    2. Section 04 27 23 - Cavity Wall Unit Masonry.
    3. Section 06 10 00 - Rough Carpentry.
    4. Section 06 20 00 - Finish Carpentry.
    5. Section 09 90 00 - Painting and Coating.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. FSC - Forest Stewardship Council Certification.
    2. NFPA - Fire Safety Code.
    3. UBC - 1979 Edition, Part VIII, Fire Resistive Standard for Fire Protection.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Storage and handling requirements and recommendations.
        3. Installation methods.
     3. Shop Drawings: Shop Drawings: Indicate deck framing system, loads and cambers, bearing details, framed openings and \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraphs if LEED is not applicable.

* + 1. LEED Submittals: Documentation of how the requirements of Credit will be met:
       1. Product Data for Credit MR 5.1 and Credit MR 5.2: Submit data, including location and distance from Project of material manufacturer and point of extraction, harvest or recovery for main raw material.
          1. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.
       2. Product Data for Credit MR 7: For products having Certified Wood content.
          1. Include statement indicating costs for each product having Certified Wood content.

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraph if FSD certification is not applicable.

* + 1. FSC Submittals: Documentation indicating manufacturer is FSC Chain-of-Custody certified.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) long, representing actual product, and color.
    3. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
    4. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for periodic cleaning and maintenance of all components.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum 5 years documented experience.
     2. Installer Qualifications: Company specializing in performing Work of this section with minimum 2 years documented experience.
     3. Design decking under direct supervision of Professional Engineer experienced in design of this Work and licensed at Project location.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship is approved by Architect.
       3. Refinish mock-up area as required to produce acceptable work.
       4. Accepted mock-up shall be comparison standard for remaining Work
  1. DELIVERY, STORAGE, AND HANDLING
     1. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
     2. Protect from soiling, damage, and construction operations. Allow for proper on site acclimation of wood materials.
  2. SEQUENCING
     1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Advantage Lumber, LLC , which is located at: 601 Ohio St.; Buffalo, NY 14203; Toll Free Tel: 877-232-3915 ; Tel: 716-827-3915 ; Fax: 716-827-3916; Email: [request info (jon@advantagelumber.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Advantage+Lumber,+LLC+&coid=45081&rep=&fax=716-827-3916&message=RE:%20Spec%20Question%20(06150adv):%20%20&mf=); Web: <http://www.advantagelumber.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.
  1. PERFORMANCE AND DESIGN REQUIREMENTS

\*\* NOTE TO SPECIFIER \*\* Include design data as required. Delete if data is shown on the Drawings.

* + 1. Design floor live and dead load: \_\_\_\_ psf (\_\_\_\_ kPa) with deflection limited to \_\_\_\_ of span.

\*\* NOTE TO SPECIFIER \*\* Delete decking options not required.

* + 1. Ipe Decking:
       1. General Characteristics:
          1. Appearance: An extremely dense, tight grained wood. Generally a deep rich brown with some pieces displaying red and amber hues.
          2. Hardness: 3600 lbs (16 kN).
          3. Bending Strength: 22,560 psi (155.55 Mpa).
          4. Decay Resistance: Very durable and naturally resistant to decay and insects. Offers up to 75 plus year lifespan.
          5. Weight: Basic specific gravity (oven dry weight/green volume) 0.85 to 0.97, air dry density 66 to 75 lbs per cu ft. (2.87 to 3.59 kPa).
          6. Moisture Content of Decking:

Ipe Decking is specially dried for use on exterior projects. Do not use kiln dried interior lumber in exterior projects as it will expand.

Ipe lumber for indoor applications is kiln dried specifically for interior use. Ipe Decking dried for exterior use will shrink inside.

* + - * 1. Janka side hardness: 3,060 lbs (1388 kg) for green material and 3,680 lbs (1669 kg) at 12 percent moisture content.
      1. Slip Resistance: ASTM C 1028 tested; Exceeds the Americans with Disabilities Act requirements for Static Coefficient of friction in a wet environment.
      2. Fire Rating:
         1. Decking Flame Spread: 10 Minutes - 0.
         2. Decking Flame Spread: 30 Minutes - 5.
         3. Decking Smoke Developed Values: 10 minutes - 3.
         4. Decking Fuel Contribution: 10 Minutes - 0.
         5. NFPA: Class A.
         6. UBC: Class 1.
      3. Span Chart for Ipe Decking:
         1. Nominal Dimension 1 x 4, Finish Dimension 3/4 x 3-1/2 inches (19 x 89 mm), Joist Spacing 16 inches (406 mm).
         2. Nominal Dimension 1 x 6, Finish Dimension 3/4 x 5-1/2 inches (19 x 140 mm), Joist Spacing 16 inches (406 mm).
         3. Nominal Dimension 5/4 x 6, Finish Dimension 1 x 5-1/2 inches (25 x 140 mm), Joist Spacing 24 inches (610 mm).
         4. Nominal Dimension 2 x 6, Finish Dimension 1-1/2 x 5-1/2 inches (38 x 140 mm), Joist Spacing 32 inches (813 mm).
    1. Cumaru Decking:
       1. General Characteristics:
          1. Appearance: Color varies from a golden tan to a reddish brown with some dark grain accents throughout the wood.
          2. Hardness: 3540 lbs (15.75 kN)
          3. Bending Strength: 14,793 psi (102 Mpa).
          4. Durability: Cumaru is very durable. The heartwood has shown to be very durable in resistance to both brown-rot and white rot fungi. The wood has excellent weathering characteristics.
          5. Moisture Content of Decking:

Cumaru Decking is specially dried for use on exterior projects. Do not use kiln dried interior lumber in exterior projects as it will expand.

Cumaru Decking for indoor applications is kiln dried specifically for interior use. Ipe Decking dried for exterior use will shrink inside.

* + - * 1. Janka Side Hardness: 3,540 lbs (15.75 kN) at 12 percent moisture content.
      1. Working Properties: Has a blunting effect on cutters, use of carbide tipped saw blades is necessary. Routs nicely. Must be predrilled for fastening.
      2. Span Chart for Cumaru Decking:
         1. Nominal Dimension 1 x 4, Finish Dimension 3/4 x 3-1/2 inches (19 x 89 mm), Joist Spacing 16 inches (406 mm).
         2. Nominal Dimension 1 x 6, Finish Dimension 3/4 x 5-1/2 inches (19 x 140 mm), Joist Spacing 16 inches (406 mm).
         3. Nominal Dimension 5/4 x 6, Finish Dimension 1 x 5-1/2 inches (25 x 140 mm) , Joist Spacing 24inches (610 mm).
         4. Nominal Dimension 2 x 6, Finish Dimension 1-1/2 x 5-1/2 inches (38 x 140 mm), Joist Spacing 32 inches (813 mm).
    1. Tigerwood Decking:
       1. General Characteristics:
          1. Appearance: Light golden brown to reddish brown with irregular black and brown streaks.
          2. Hardness: 1850 lbs (8.23 kN).
          3. Bending Strength: 19,285 psi (133 Mpa).
          4. Decay Resistance: Very durable and naturally resistant to decay and insects. Offers 30 plus year lifespan.
          5. Moisture Content of Decking:

Tigerwood Decking is specially dried for use on exterior projects. Do not use kiln dried interior lumber in exterior projects as it will expand.

Tigerwood lumber for indoor applications is kiln dried specifically for interior use. Ipe Decking dried for exterior use will shrink inside.

* + - * 1. Janka Side Hardness: 1,850 lbs (8.23 kN)for green material and 3,680 lbs at 12 percent moisture content.
        2. Bending Strength: 19,285 psi (133 Mpa)
      1. Span Chart for Tigerwood Decking:
         1. Nominal Dimension 1 x 4, Finish Dimension 3/4 x 3-1/2 inches (19 x 89 mm), Joist Spacing 16 inches (406 mm).
         2. Nominal Dimension 1 x 6, Finish Dimension 3/4 x 5-1/2 inches (19 x 140 mm), Joist Spacing 16 inches (406 mm).
         3. Nominal Dimension 5/4 x 6, Finish Dimension 1 x 5-1/2 inches (25 x 140 mm) , Joist Spacing 24inches (610 mm).
         4. Nominal Dimension 2 x 6, Finish Dimension 1-1/2 x 5-1/2 inches (38 x 140 mm), Joist Spacing 32 inches (813 mm).
    1. Garapa Decking:
       1. General Characteristics:
          1. Appearance: A fine-grained timber that is light yellow to a warm golden hue.
          2. Hardness: 1,210 lbs (5.38 kN).
          3. Bending Strength: 12,900 psi (88.94 Mpa).
          4. Decay Resistance: Very durable and naturally resistant to decay and insects. Offers up to 30 plus year lifespan.
          5. Moisture Content of Decking:

Garapa Decking is specially dried for use on exterior projects. Do not use kiln dried interior lumber in exterior projects as it will expand.

Garapa lumber for indoor applications is kiln dried specifically for interior use. Ipe Decking dried for exterior use will shrink inside.

* + - * 1. Janka Side Hardness: 1,210 lbs (5382 kN) at 12 percent moisture content.
      1. Span Chart for Garapa Decking:
         1. Nominal Dimension 1 x 4, Finish Dimension 3/4 x 3-1/2 inches (19 x 89 mm), Joist Spacing 16 inches (406 mm).
         2. Nominal Dimension 1 x 6, Finish Dimension 3/4 x 5-1/2 inches (19 x 140 mm), Joist Spacing 16 inches (406 mm).
         3. Nominal Dimension 5/4 x 6, Finish Dimension 1 x 5-1/2 inches (25 x 140 mm) , Joist Spacing 24inches (610 mm).
         4. Nominal Dimension 2 x 6, Finish Dimension 1-1/2 x 5-1/2 inches (38 x 140 mm), Joist Spacing 32 inches (813 mm).
    1. Massaranduba Decking Specs:
       1. General Characteristics:
          1. Appearance: Massaranduba is a rich red color. It has a mostly straight grain and a fine texture.
          2. Hardness: 3,190 lbs (14.19 kN).
          3. Bending Strength: 27,280 psi (188 Mpa).
          4. Decay Resistance: V Very durable and naturally resistant to decay and insects. Offers up to 30 plus year lifespan.
          5. Moisture Content of Decking:

Massaranduba Decking is specially dried for use on exterior projects. Do not use kiln dried interior lumber in exterior projects as it will expand.

Massaranduba lumber for indoor applications is kiln dried specifically for interior use. Massaranduba Decking dried for exterior use will shrink inside.

* + - * 1. Janka Side Hardness: 3,190 lbs (14.19 kN) at 12 percent moisture content.
      1. Span Chart for Massaranduba Decking:
         1. Nominal Dimension 1 x 4, Finish Dimension 3/4 x 3-1/2 inches (19 x 89 mm), Joist Spacing 16 inches (406 mm).
         2. Nominal Dimension 1 x 6, Finish Dimension 3/4 x 5-1/2 inches (19 x 140 mm), Joist Spacing 16 inches (406 mm).
         3. Nominal Dimension 5/4 x 6, Finish Dimension 1 x 5-1/2 inches (25 x 140 mm) , Joist Spacing 24inches (610 mm).
         4. Nominal Dimension 2 x 6, Finish Dimension 1-1/2 x 5-1/2 inches (38 x 140 mm), Joist Spacing 32 inches (813 mm).
    1. Teak Decking: Botanical Name: Tectona grandis.
       1. General Characteristics:
          1. Origin: Plantation grown. 20 to 50 years.
          2. Appearance: Color varies from a yellow brown to dark golden brown, darkening with age. Grain is usually straight to slightly wavy. Texture is coarse, uneven and oily to the touch, sometimes with a white glistening deposit.
          3. Hardness: 1070 lbs (4.76 kN).
          4. Bending Strength: 14,600 psi (101kN).
          5. Durability: Very durable, especially when harvested from older trees. Naturally resists rot, mold, mildew, and insects.
          6. Moisture Content of Decking:

Specially dried for use on exterior projects.

Teak Decking dried for exterior use will shrink inside.

Teak Lumber: Kiln dried specifically for interior use.

Kiln dried interior lumber will expand outside.

* + - * 1. Janka side hardness: 1,070 lbs (4.76 kN) at 12 percent moisture content.
      1. Working Properties: Medium resistance to cutting tools with a severe blunting effect. Pre-drilling required for nailing. Gluing is good on freshly planed or sanded surfaces. Fine machine dust is a skin irritant. Stains well and takes a satisfactory finish, especially an oil finish.
      2. Fire Rating: NFPA: Class A.
      3. Span Chart for Teak Decking:
         1. Nominal Dimension 1 x 4, Finish Dimension 3/4 x 3-1/2 inches (19 x 89 mm), Joist Spacing 16 inches (406 mm).
         2. Nominal Dimension 1 x 6, Finish Dimension 3/4 x 5-1/2 inches (19 x 140 mm), Joist Spacing 16 inches (406 mm).
         3. Nominal Dimension 5/4 x 6, Finish Dimension 1 x 5-1/2 inches (25 x 140 mm) , Joist Spacing 24inches (610 mm).
         4. Nominal Dimension 2 x 6, Finish Dimension 1-1/2 x 5-1/2 inches (38 x 140 mm), Joist Spacing 32 inches (813 mm).
  1. HARDWOOD DECKING

\*\* NOTE TO SPECIFIER \*\* Select the Hardwood Decking Species required from the following paragraphs. Delete those not required.

* + 1. Ipe Decking and Dimension Lumber:

\*\* NOTE TO SPECIFIER \*\* Select the Ipe Decking and Dimension Lumber types and sizess required from the following paragraphs. Delete those not required.

* + - 1. Standard Ipe Decking:
         1. 1 x 4 Standard, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89).
         2. 1 x 6 Standard, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         3. 1 x 4 Plus Standard, Net Finished Dimensions 21 mm x 3-1/2 inch.
         4. 1 x 6 Plus Standard, Net Finished Dimensions 21 mm x 5-1/2 inch.
         5. 5/4 x 4 Standard, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         6. 5/4 x 6 Standard, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      2. FSC Standard Ipe Decking:
         1. 1 x 4 FSC Standard, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89).
         2. 1 x 6 FSC Plus Standard, Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         3. 5/4 x 6 FSC Standard, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         4. 2 x 2 FSC 2 x 2, Net Finished Dimensions 1-1/2 x 1-1/2 inch (38 x 38 mm).
      3. Pregrooved Ipe Decking for use with clip fasteners:
         1. 1 x 4 Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 4 One Sided Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         3. 1 x 4 Plus Pregrooved, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         4. 1 x 4 Plus One Sided, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         5. 1 x 6 Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         6. 1 x 6 One Sided Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         7. 1 x 6 Plus Pregrooved Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         8. 1 x 6 Plus One Sided Pregrooved, Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         9. 5/4 x 4 Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         10. 5/4 x 4 One Sided Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         11. 5/4 x 6 Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         12. 5/4 x 6 One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      4. FSC Pregrooved Ipe Decking for use with clip fasteners:
         1. 1 x 4 FSC Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 4 FSC One Sided Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         3. 5/4 x 4 FSC Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         4. 5/4 x 4 FSC One Sided Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         5. 5/4 x 6 FSC Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         6. 5/4 x 6 FSC One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      5. Tongue and Groove Ipe Porch Decking:
         1. 1 x 4 Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 76 mm).
         2. 1 x 4 Plus Tongue and Groove for use with clip fasteners, Net Finished Dimensions 3/4 x 3 inch (19 x 76 mm).
         3. 1 x 6 Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 127 mm).
         4. 1 x 6 Plus Tongue and Groove for use with clip fasteners, Net Finished Dimensions 3/4 x 5 inch (19 x 127 mm).
         5. 5/4 x 4 Tongue and Groove, Net Finished Dimensions 15/16 x 3 inch (24 x 76 mm).
         6. 5/4 x 6 Tongue and Groove, Net Finished Dimensions 15/16 x 5 inch (24 x 127 mm).
      6. FSC Tongue and Groove Ipe Porch Decking:
         1. 1 x 4 FSC Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (11 x 76 mm).
         2. 1 x 6 FSC Plus Tongue and Groove for use with clip fasteners, Net Finished Dimensions 3/4 x 5 inch (19 x 127 mm).
         3. 5/4 x 6 FSC Tongue and Groove, Net Finished Dimensions 15/16 x 5 inch (24 x 127 mm).
      7. Dimensional Ipe Lumber:
         1. 5/4 x 8, Net Finished Dimensions 1 x 7-1/4 inches (25 x 184 mm).
         2. 5/4 x 10, Net Finished Dimensions 1 x 9-1/4 inches (025 x 235 mm).
         3. 5/4 x 12, Net Finished Dimensions 1 x 11-1/4 inches (25 x 286 mm).
         4. 2 x 2, 3 to 4 ft only, Net Finished Dimensions 1-1/2 x 1-1/2 inch (38 x 38 mm).
         5. 2 x 2, 5 to 14 ft Net Finished Dimensions 1-1/2 x 1-1/2 inch (38 x 38 mm).
         6. 2 x 4, Net Finished Dimensions 1-1/2 x 3-1/2 inches (38 x 89 mm).
         7. 2 x 6, Net Finished Dimensions 1-1/2 x 5-1/2 inches (38 x 140 mm).
         8. 2 x 8, Net Finished Dimensions 1-1/2 x 7-1/4 inches (38 x 184 mm).
         9. 2 x 10, Net Finished Dimensions 1-1/2 x 9-1/4 inches (38 x 235 mm).
         10. 2 x12, Net Finished Dimensions 1-1/2 x 11-1/4 inches (38 x 286 mm).
         11. 3 x 6, Net Finished Dimensions 2-1/2 x 5-1/2 inches (64 x 140 mm).
         12. 3 x 8, Net Finished Dimensions 2-1/2 x 7-1/4 inches (64 x 184 mm).
         13. 4 x 4, Net Finished Dimensions 3 -1/2 x 3-1/2 inches (89 x 89 mm).
         14. 6 x 6, Net Finished Dimensions 5-1/2 x 5-1/2 inches (140 x 140 mm).
         15. Quarter-Round Molding 3/4 x 3/4 inch (19 x 19 mm).
         16. Shoe Molding, Net Finished Dimensions 1/2 x 3/4 inches (13 x 19 mm).
    1. Cumaru Decking and Dimension Lumber:

\*\* NOTE TO SPECIFIER \*\* Select the Cumaru Decking and Dimension Lumber types and sizess required from the following paragraphs. Delete those not required.

* + - 1. Standard Cumaru Decking:
         1. 1 x 4 Standard, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 6 Standard, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         3. 1 x 4 Plus Standard, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         4. 1 x 6 Plus Standard, Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         5. 5/4 x 4 Standard, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         6. 5/4 x 5 Standard, Net Finished Dimensions 1 x 4-1/2 inch (25 x 114 mm).
         7. 5/4 x 6 Standard, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      2. FSC Standard Cumaru Decking:
         1. 1 x 4 FSC Plus Standard, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         2. 5/4 x 4 FSC Standard, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         3. 5/4 x 6 FSC Standard, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      3. Pregrooved Cumaru Decking for use with clip fasteners:
         1. 1 x 4 Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 4 One Sided Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         3. 1 x 4 Plus Pregrooved, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         4. 1 x 4 Plus One Sided Pregrooved, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         5. 1 x 6 Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         6. 1 x 6 One Sided Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         7. 1 x 6 Plus Pregrooved Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         8. 1 x 6 Plus One Sided Pregrooved, Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         9. 5/4 x 4 Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         10. 5/4 x 4 One Sided Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         11. 5/4 x 5 Pregrooved, Net Finished Dimensions 1 x 4-1/2 inch (25 x 114 mm).
         12. 5/4 x 5 One Sided Pregrooved, Net Finished Dimensions 1 x 4-1/2 inch (25 x 114 mm).
         13. 5/4 x 6 Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         14. 5/4 x 6 One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      4. FSC Pregrooved Cumaru Decking for use with clip fasteners:
         1. 1 x 4 FSC Plus Pregrooved, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         2. 1 x 4 FSC Plus One Sided Pregrooved, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         3. 5/4 x 4 FSC Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         4. 5/4 x 4 FSC One Sided Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         5. 5/4 x 6 FSC Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         6. 5/4 x 6 FSC One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      5. Tongue and Groove Cumaru Porch Decking:
         1. 1 x 4 Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 76 mm).
         2. 1 x 4 Plus Tongue and Groove for use with clip fasteners, Net Finished Dimensions 3/4 x 3 inch (19 x 76 mm).
         3. 1 x 6 Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 127 mm).
         4. 1 x 6 Plus Tongue and Groove for use with clip fasteners, Net Finished Dimensions 3/4 x 5 inch (19 x 127 mm).
         5. 5/4 x 4 Tongue and Groove, Net Finished Dimensions 15/16 x 3 inch (24 x 76 mm).
         6. 5/4 x 5 Tongue and Groove, Net Finished Dimensions 15/16 x 4 inch (24 x 102 mm).
         7. 5/4 x 6 Tongue and Groove, Net Finished Dimensions 15/16 x 5 inch (24 x 127 mm).
      6. Tongue and Groove Cumaru Porch Decking:
         1. 5/4 x 4 Tongue and Groove, Net Finished Dimensions 15/16 x 3 inch (24 x 76 mm).
         2. 5/4 x 6 Tongue and Groove, Net Finished Dimensions 15/16 x 5 inch (24 x 127 mm).
      7. Dimensional Cumaru Lumber:
         1. 5/4 x 8, Net Finished Dimensions 1 x 7-1/4 inches (25 x 184 mm).
         2. 5/4 x 10, Net Finished Dimensions 1 x 9-1/4 inches (25 x 235 mm).
         3. 5/4 x 12, Net Finished Dimensions 1 x 11-1/4 inches (25 x 286 mm).
         4. 2 x 2, Net Finished Dimensions 1-1/2 x 1-1/2 inch (38 x 38 mm).
         5. 2 x 4, Net Finished Dimensions 1-1/2 x 3-1/2 inches (38 x 89 mm).
         6. 2 x 6, Net Finished Dimensions 1-1/2 x 5-1/2 inches (38 x 140 mm).
         7. 2 x 8, Net Finished Dimensions 1-1/2 x 7-1/4 inches (38 x 184 mm).
         8. 2 x 10, Net Finished Dimensions 1-1/2 x 9-1/4 inches (38 x 235 mm).
         9. 2 x12, Net Finished Dimensions 1 -1/2 x 11-1/4 inches (38 x 286 mm).
         10. 4 x 4, Net Finished Dimensions 3 -1/2 x 3-1/2 inches (89 x 89 mm).
         11. 6 x 6, Net Finished Dimensions 5-1/2 x 5-1/2 inches (140 x 140 mm).
         12. Quarter-Round Molding 3/4 x 3/4 inch (19 x 19 mm).
         13. Shoe Molding, Net Finished Dimensions 1/2 x 3/4 inches (13 x 19 mm).
    1. Tigerwood Decking and Dimension Lumber:

\*\* NOTE TO SPECIFIER \*\* Select the Tigerwood Decking and Dimension Lumber types and sizess required from the following paragraphs. Delete those not required.

* + - 1. Standard Tigerwood Decking:
         1. 1 x 4 Standard, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 6 Standard, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         3. 1 x 4 Plus Standard, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         4. 1 x 6 Plus Standard, Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         5. 5/4 x 4 Standard, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         6. 5/4 x 6 Standard, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      2. FSC Standard Tigerwood Decking:
         1. 5/4 x 4 FSC Standard, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         2. 5/4 x 6 FSC Standard, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      3. Pregrooved Tigerwood Decking for use with clip fasteners:
         1. 1 x 4 Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 4 One Sided Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         3. 1 x 4 Plus Pregrooved, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         4. 1 x 4 Plus One Sided Pregrooved, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         5. 1 x 6 Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         6. 1 x 6 One Sided Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         7. 1 x 6 Plus Pregrooved Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         8. 1 x 6 Plus One Sided Pregrooved, Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         9. 5/4 x 4 Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         10. 5/4 x 4 One Sided Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         11. 5/4 x 6 Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         12. 5/4 x 6 One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      4. FSD Pregrooved Tigerwood Decking for use with clip fasteners:
         1. 5/4 x 4 FSD Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         2. 5/4 x 4 FSD One Sided Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         3. 5/4 x 6 FSD Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         4. 5/4 x 6 FSD One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      5. Tongue and Groove Tigerwood Porch Decking:
         1. 1 x 4 Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 76 mm).
         2. 1 x 4 Plus Tongue and Groove for use with clip fasteners, Net Finished Dimensions 3/4 x 3 inch (19 x 76 mm).
         3. 1 x 6 Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 127 mm).
         4. 1 x 6 Plus Tongue and Groove for use with clip fasteners, Net Finished Dimensions 3/4 x 5 inch (19 x 127 mm).
         5. 5/4 x 4 Tongue and Groove, Net Finished Dimensions 15/16 x 3 inch (24 x 76 mm).
         6. 5/4 x 6 Tongue and Groove, Net Finished Dimensions 15/16 x 5 inch (24 x 127 mm).
      6. FSC Tongue and Groove Tigerwood Porch Decking:
         1. 5/4 x 4 FSC Tongue and Groove, Net Finished Dimensions 15/16 x 3 inch (24 x 76 mm).
         2. 5/4 x 6 FSC Tongue and Groove, Net Finished Dimensions 15/16 x 5 inch (34 x 127 mm).
      7. Dimensional Tigerwood Lumber:
         1. 5/4 x 8, Net Finished Dimensions 1 x 7-1/4 inches (25 x 184 mm).
         2. 5/4 x 10, Net Finished Dimensions 1 x 9-1/4 inches (25 x 235 mm).
         3. 5/4 x 12, Net Finished Dimensions 1 x 11-1/4 inches (25 x 286 mm).
         4. 2 x 2, Net Finished Dimensions 1-1/2 x 1-1/2 inch (38 x 38 mm).
         5. 2 x 4, Net Finished Dimensions 1-1/2 x 3-1/2 inches (38 x 89 mm).
         6. 2 x 6, Net Finished Dimensions 1-1/2 x 5-1/2 inches (38 x 140 mm).
         7. 2 x 8, Net Finished Dimensions 1-1/2 x 7-1/4 inches (38 x 184 mm).
         8. 2 x 10, Net Finished Dimensions 1-1/2 x 9-1/4 inches (38 x 235 mm).
         9. 2 x12, Net Finished Dimensions 1 -1/2 x 11-1/4 inches (38 x 286 mm).
         10. 4 x 4, Net Finished Dimensions 3 -1/2 x 3-1/2 inches (89 x 89 mm).
         11. Quarter-Round Molding 3/4 x 3/4 inch (19 x 19 mm).
         12. Shoe Molding, Net Finished Dimensions 1/2 x 3/4 inches (13 x 19 mm).
    1. Garapa Decking and Dimension Lumber:

\*\* NOTE TO SPECIFIER \*\* Select the Garapa Decking and Dimension Lumber types and sizess required from the following paragraphs. Delete those not required.

* + - 1. Standard Garapa Decking:
         1. 1 x 4 Standard, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 6 Standard, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         3. 1 x 4 Plus Standard, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         4. 1 x 6 Plus Standard, Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         5. 5/4 x 4 Standard, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         6. 5/4 x 5 Standard, Net Finished Dimensions 1 x 4-1/2 inch (24 x 114 mm).
         7. 5/4 x 6 Standard, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      2. FSC Standard Garapa Decking:
         1. 1 x 6 FSC Standard, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         2. 5/4 x 6 FSC Standard, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         3. 2 x 6 FSC Standard, Net Finished Dimensions 1-1/2 x 5-1/2 inch (38 x 140 mm).
      3. Pregrooved Garapa Decking for use with clip fasteners:
         1. 1 x 4 Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 4 One Sided Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         3. 1 x 4 Plus Pregrooved, Net Finished Dimensions 21 mm x 3-1/2 inch (89 mm).
         4. 1 x 4 Plus One Sided Pregrooved, Net Finished Dimensions 21 mm x 3-1/2 inch.
         5. 1 x 6 Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         6. 1 x 6 One Sided Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         7. 1 x 6 Plus Pregrooved Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         8. 1 x 6 Plus One Sided Pregrooved, Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
         9. 5/4 x 4 Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         10. 5/4 x 4 One Sided Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         11. 5/4 x 6 Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         12. 5/4 x 6 One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      4. FSD Pregrooved Garapa Decking for use with clip fasteners
         1. 1 x 6 FSC Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         2. 1 x 6 FSC One Sided Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         3. 5/4 x 6 FSC Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         4. 5/4 x 6 FSC One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      5. Tongue and Groove Garapa Porch Decking:
         1. 1 x 4 Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 76 mm).
         2. 1 x 4 Plus Tongue and Groove for use with clip fasteners, Net Finished Dimensions 3/4 x 3 inch (19 x 76 mm).
         3. 1 x 6 Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 127 mm).
         4. 1 x 6 Plus Tongue and Groove for use with clip fasteners, Net Finished Dimensions 3/4 x 5 inch (19 x 127 mm).
         5. 5/4 x 4 Tongue and Groove, Net Finished Dimensions 15/16 x 3 inch (24 x 76 mm).
         6. 5/4 x 6 Tongue and Groove, Net Finished Dimensions 15/16 x 5 inch (34 x 127 mm).
      6. FSC Tongue and Groove Garapa Porch Decking:
         1. 1 x 6 FSC Tongue and Groove for use with clip fasteners, Net Finished Dimensions 3/4 x 5 inch (149 x 127 mm).
         2. 5/4 x 6 FSC Tongue and Groove, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      7. Dimensional Garapa Lumber:
         1. 2 x 2, Net Finished Dimensions 1-1/2 x 1-1/2 inch (38 x 38 mm).
         2. 2 x 4, Net Finished Dimensions 1-1/2 x 3-1/2 inches (38 x 89 mm).
         3. 2 x 6, Net Finished Dimensions 1-1/2 x 5-1/2 inches (38 x 140 mm).
         4. 2 x 10, Net Finished Dimensions 1-1/2 x 9-1/4 inches (38 x 235 mm).
         5. 4 x 4, Net Finished Dimensions 3-1/2 x 3-1/2 inches (89 x 89 mm).
    1. Massaranduba Decking:

\*\* NOTE TO SPECIFIER \*\* Select the Massaranduba Decking types and sizess required from the following paragraphs. Delete those not required.

* + - 1. Standard Massaranduba Decking:
         1. 5/4 x 6 Standard, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      2. FSC Massaranduba Decking
         1. 5/4 x 4 Standard, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         2. 5/4 x 6 Standard, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         3. 2 x 2 Standard, Net Finished Dimensions 1-1/2 x 1-1/2 inch (38 x 38 mm).
         4. 2 x 4 Standard, Net Finished Dimensions 1-1/2 x 3-1/2 inches (38 x 89 mm).
         5. 4 x 4 Standard, Net Finished Dimensions 3 -1/2 x 3-1/2 inches (89 x 89 mm).
      3. Pregrooved Massaranduba Decking for use with clip fasteners:
         1. 5/4 x 6 Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         2. 5/4 x 6 One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      4. FSC Pregrooved Massaranduba Decking for use with clip fasteners
         1. 5/4 x 4 Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         2. 5/4 x 4 One Sided Pregrooved, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         3. 5/4 x 6 Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         4. 5/4 x 6 One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      5. Tongue and Groove Massaranduba Porch Decking:
         1. 5/4 x 6 Tongue and Groove, Net Finished Dimensions 15/16 x 5 inch (24 x 127 mm).
      6. FSC Tongue and Groove Massaranduba Porch Decking:
         1. 5/4 x 4 Tongue and Groove, Net Finished Dimensions 1 x 3-1/2 inch (25 x 89 mm).
         2. 5/4 x 6 Tongue and Groove, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
    1. Teak Decking and Dimension Lumber:

\*\* NOTE TO SPECIFIER \*\* Select the Teak Decking and Dimension Lumber types and sizess required from the following paragraphs. Delete those not required.

* + - 1. Standard Teak Decking:
         1. 1 x 4 Standard, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 6 Standard, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
      2. FSC Standard Teak Decking:
         1. 1 x 4 FSC Standard, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 6 FSC Plus Standard, Net Finished Dimensions 21 mm x 5-1/2 inch (140 mm).
      3. Pregrooved Teak Decking for use with clip fasteners:
         1. 1 x 4 Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 4 One Sided Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         3. 1 x 6 Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
         4. 1 x 6 One Sided Pregrooved, Net Finished Dimensions 3/4 x 5-1/2 inch (19 x 140 mm).
      4. FSC Pregrooved Teak Decking for use with clip fasteners:
         1. 1 x 4 FSC Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         2. 1 x 4 FSC One Sided Pregrooved, Net Finished Dimensions 3/4 x 3-1/2 inch (19 x 89 mm).
         3. 1 x 6 FSC Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
         4. 1 x 6 FSC One Sided Pregrooved, Net Finished Dimensions 1 x 5-1/2 inch (25 x 140 mm).
      5. Tongue and Groove Teak Porch Decking:
         1. 1 x 4 Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 76 mm).
         2. 1 x 6 Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 127 mm).
      6. FSC Tongue and Groove Teak Porch Decking:
         1. 11 x 4 FSC Tongue and Groove, Net Finished Dimensions 11/16 x 3 inch (17 x 76 mm).
         2. 1 x 6 FSC Plus Tongue and Groove for use with clip fasteners, Net Finished Dimensions 11/16 x 5 inch (17.5 x 127 mm).
      7. Dimensional Teak Lumber:
         1. 4/4, Random Widths: 3 to 8 inches (76 to 203 mm).
         2. 5/4, Random Widths: 3 to 8 inches (76 to 203 mm).
         3. 6/4, Random Widths: 3 to 8 inches (76 to 203 mm).
         4. 8/4, Random Widths: 3 to 8 inches (76 to 203 mm).
  1. HARDWOOD DECK TILES AND ACCESSORlES

\*\* NOTE TO SPECIFIER \*\* Select the Hardwood Deck Tile sizes and Species required from the following paragraphs. Delete those not required.

* + 1. 20x20 Deck Tiles have holes pre-drilled in the corners to accept Deckwise Deck Tile Connectors:
       1. Ipe 20x20 Anti-Slip Deck Tiles: 19-5/8 x 19-5/8 x 1-3/16 inches (498.5 x 498.5 x 30 mm) high.
          1. Anti-Slip Surface.
          2. Predrilled Corner.
       2. Ipe 20x20 Smooth Deck Tiles: 19-5/8 x 19-5/8 x 1-3/16 inches (498.5 x 498.5 x 30 mm) high.
          1. Smooth Surface.
          2. Predrilled Corner.
       3. Cumaru 20x20 Smooth Deck Tiles: 19-5/8 x 19-5/8 x 1-3/16 inches (498.5 x 498.5 x 30 mm) high.
          1. Smooth Surface.
          2. Predrilled Corners.
       4. Tigerwood 20x20 Smooth Deck Tiles: 19-5/8 x 19-5/8x 1-3/16 inches (498.5 x 498.5 x 30 mm) high.
          1. Smooth Surface.
          2. Predrilled Corner.
    2. 24x24 deck tiles have holes pre-drilled in the corners to accept Deckwise Deck Tile Connectors and are also grooved in the corners to accept most major pedestal systems.
       1. Ipe 24x24 Smooth Deck Tiles: 23-7/8 x 23-7/8 x 1-11/16 inches (606 x 606 x 43 mm) high.
          1. Smooth Surface.
          2. Predrilled Corner.
       2. Cumaru 24x24 Smooth Deck Tiles: 23-7/8 x 23-7/8 x 1-11/16 inches (606 x 606 x 43 mm) high.
          1. Smooth Surface.
          2. Predrilled Corners.
       3. Tigerwood 24x24 Smooth Deck Tiles: 23-7/8 x 23-7/8 x 1-11/16 inches (606 x 606 x 43 mm) high.
          1. Smooth Surface.
          2. Predrilled Corners.
       4. Massaranduba 24x24 Smooth Deck Tiles: 23-7/8 x 23-7/8 x 1-11/16 inches (606 x 606 x 43 mm) high.
          1. Anti-Slip Surface.
          2. Predrilled Corners.
       5. Teak 24 x 24 Deck Tiles: 23-7/8 x 23-7/8 x 1-11/16 inches (606 x 606 x 43 mm) high.
          1. Smooth Surface.
          2. Predrilled Corners.
    3. 24x48 deck tiles have holes pre-drilled in the corners to accept Deckwise Deck Tile Connectors and are also grooved in the corners to accept most major pedestal systems.
       1. Ipe 24x48 Smooth Deck Tiles: 23-7/8 x 47-7/8 x 1-11/16 inches (606 x 2116 x 43 mm) high.
          1. Smooth Surface.
          2. Predrilled Corner.
    4. FSC / Rainforest Alliance Certified Decking Tiles:
       1. FSC Massaranduba 24x24 Smooth Deck Tiles: 23-7/8 x 23-7/8 x 1-11/16 inches (606 x 606 x 43 mm) high.
          1. Anti-Slip Surface.
          2. Predrilled Corner.
       2. FSC Ipe 20x20 Smooth Deck Tiles: 19-5/8 x 19-5/8 x 1-3/16 inches (498.5 x 498.5 x 30 mm) high.
          1. Anti-Slip Surface.
          2. Predrilled Corner.
       3. FSC Ipe 24x24 Smooth Deck Tiles: 23-7/8 x 23-7/8 x 1-11/16 inches (606 x 606 x 43 mm) high.
          1. Smooth Surface.
          2. Predrilled Corner.
       4. FSC Cumaru 24x24 Smooth Deck Tiles: 23-7/8 x 23-7/8 x 1-11/16 inches (606 x 606 x 43 mm) high.
          1. Smooth Surface.
          2. Predrilled Corners.

\*\* NOTE TO SPECIFIER \*\* Select the Deck Tile Installation Accessories required from the following paragraphs and delete those not required. Deck Tile Connectors are suitable for use over level surfaces with minimal clearance requirements. Deck Pedestals have more clearance and are available in fixed and adjustable height configurations.

* + 1. Deck Tile Installation Accessories:
       1. Decking Tile Connectors: As required for installation indicated on Drawings.
          1. DeckWise Deck Tile Connectors.
       2. Deck Pedestals: As required for the installation indicated on the Drawings.
          1. DeckWise Altitudes Pedestal System - SJB-4156: Screw-jack Base with Adjustable Self-Leveling Head. 4-5/32 inches (106 mm) minimum height.
          2. DeckWise Altitudes Pedestal System - SPVC-2656: Stationary PVC Base (Non-adjustable Base) with Adjustable Self-Leveling Head. 2-21/32 inches (67.5 mm) minimum height.

\*\* NOTE TO SPECIFIER \*\* Select the Deck Tile Edge Trim Accessories required from the following paragraphs and delete those not required.

* + 1. Deck Tile Edge Trim: 20 x 20.
       1. Ipe Straight Trim Piece: 1 x 19-5/8 inches (25 x 500 mm) with Eased Edge
       2. Tigerwood Straight Trim Piece: 1 x 19-5/8 inches (25 x 500 mm) with Eased Edge
       3. Tigerwood Corner Trim Piece: 1 x 19-15/16 inch (25 x 506 mm) Inside Edge, 23-1/2 inch (597 mm) Outside Edge. Features 45 degree Miter with Eased Edge
       4. Cumaru Corner Trim Piece: 1 x 19-15/16 inch (25 x 506 mm) Inside Edge, 23-1/2 inch (597 mm) Outside Edge. Features 45 degree Miter with Eased Edge
    2. Deck Tile Edge Trim: 24 x 24.
       1. Ipe Straight Trim Piece: 1-1/2 x 23-7/8 inches (38 x 606 mm) with Eased Edge.
       2. Tigerwood Straight Trim Piece: 1-1/2 x 23-7/8 inches (38 x 606 mm) with Eased Edge.
       3. Tigerwood Corner Trim Piece: 1-1/2 x 24 inches (38 x 610 mm) inside Edge, 27-1/2 inch (670 mm) Outside Edge. Features 45 degree Miter with Eased Edge.
       4. Cumaru Corner Trim Piece: 1-1/2 x 24 inches (38 x 610 mm) Inside Edge, 27-1/2 inch (670 mm) Outside Edge. Features 45 degree Miter with Eased Edge.
  1. HARDWOOD HANDRAIL

\*\* NOTE TO SPECIFIER \*\* Select the Hardwood Handrail Species required from the following paragraphs. Delete those not required.

* + 1. Ipe Railing System:

\*\* NOTE TO SPECIFIER \*\* Select the Ipe Railing System types and sizess required from the following paragraphs. Delete those not required.

* + - 1. Railcap: Large Handrail.
      2. Railcap: Small Handrail.
      3. Baluster: 2 x 2 inch (51 x 51 mm).
      4. Bottom Rail: 1-1/4 x 4 inches (32 x 102 mm).
      5. Postcap: 9-1/4 x 9-1/4 x 1-1/2 inches (235 x 235 x 38 mm) thick.
      6. Postcap: 7-1/4 x 7-1/4 x 1-1/2 inches (284 x 184 x .8 mm) thick.
      7. Postcap: 5-1/2 x 5-1/2 x 1-1/2 inches (1400 x 140 x 38 mm) thick.
      8. Slip Posts: 7 x 7 inches (178 x 178 mm) x 48 inches(1219 mm) hollow.
    1. Cumaru Railing System:

\*\* NOTE TO SPECIFIER \*\* Select the Cumaru Railing System types and sizess required from the following paragraphs. Delete those not required.

* + - 1. Railcap: Large Handrail.
      2. Railcap: Small Handrail.
      3. Baluster: 2 x 2 inch (51 x 51 mm).
      4. Bottom Rail: 1-1/4 x 4 inches (32 x 102 mm).
      5. Postcap: 5-1/2 x 5-1/2 x 1-1/2 inches (1400 x 140 x 38 mm) thick.
      6. Slip Posts: 7 x 7 inches (178 x 178 mm) x 48 inches(1219 mm) hollow.
    1. Tigerwood Railing System:

\*\* NOTE TO SPECIFIER \*\* Select the Tigerwood Railing System types and sizess required from the following paragraphs. Delete those not required.

* + - 1. Railcap: Large Handrail.
      2. Railcap: Small Handrail.
      3. Baluster: 2 x 2 inch (51 x 51 mm).
      4. Bottom Rail: 1-1/4 x 4 inches (32 x 102 mm).
      5. Postcap: 5-1/2 x 5-1/2 x 1-1/2 inches (1400 x 140 x 38 mm) thick.
      6. Slip Posts: 7 x 7 inches (178 x 178 mm) x 48 inches(1219 mm) hollow.
  1. CABLE RAILING COMPONENTS

\*\* NOTE TO SPECIFIER \*\* Select the Cable Railing Components required from the following paragraphs. Delete those not required.

* + 1. WiseCable Heritage Series: Cable railing for any type of wood post as an outside-to-outside fitting on a straight level run or on a pitch or stairs.
       1. Tensioning device is a 2-7/8 inches (73 mm) long threaded stud which installs on the back side of one end post. A pull-lock fitting is installed through the other end.
       2. Use for decks with dedicated end posts for each run where the posts are situated such that, the back sides of the posts are all accessible.
       3. When taking cable railing through a corner, do not bend the cable past 45 degrees at any one time. If turning 90 degrees, a 2-step turn using a double corner post configuration is required.
    2. WiseCable Estate Series: For any type of wood post as an outside to outside fitting on a straight level run or on a pitch or stairs.
       1. Tensioning device is a 3-1/2 inch (89 mm) long Invisiware Receiver, which installs through the wood post on one end. A pull-lock fitting is installed through the other end.
       2. Use for decks with dedicated end posts for each run where the posts are situated such that, the back sides of the posts are all accessible.
       3. When taking cable railing through a corner, do not bend the cable past 45 degrees at any one time. If turning 90 degrees, a 2-step turn using a double corner post configuration is required.
    3. WiseCable Legacy Series: Use for any type of wood post.
       1. Tensioning device is an Adjust-a-Body with threaded eye, which attaches via a mounting screw to the lag eye, threaded tab. A push-lock with threaded eye attaches the same way to the other end.
       2. Can be used to go up a stair and across a landing by inserting post protector tubes in the break-over post. Tube will prevent the cable from carving a groove into your post where it exits at an angle.
    4. WiseCable Legacy Series Stairs: Top posts are often corner posts, which may require the stair run to connect to the face of the post. The top and bottom of the cable run is connected perpendicular to those posts, and only the intermediate posts would be drilled on the angle for the cable to run through.
       1. Use for any type of wood post as an inside to inside fitting on a pitch or stair application.
       2. Tensioning device is an Adjust-a-Body with threaded eye, which attaches via a mounting screw to the lag eye, threaded tab. A push-lock with threaded eye attaches the same way to the other end.
       3. Can be used to go up a stair and across a landing by inserting post protector tubes in the break-over post. The tube will prevent the cable from carving a groove into your post where it exits at an angle.
    5. Cable Rail Accessories:
       1. Cable Brace: 42 inch (1067 mm) long anodized aluminum with 13 holes. 3/4 x 3/4 inch (19 x 19 mm) tube. For cutting down to any size rail height. Holes pre-drilled at 3-1/8 inches on center, 13 holes total.
       2. Cable Brace: 42 inch (1067 mm) long anodized aluminum undrilled: 3/4 x 3/4 inch (19 x 19 mm) tube. For cutting down to any size rail height.
  1. DECKING ACCESSORIES

\*\* NOTE TO SPECIFIER \*\* Select the Decking Accessories required from the following paragraphs. Delete those not required.

* + 1. Wood Plugs: 3/8 inch (9.5 mm) tapered wood plugs for plugging holes in face-screwed exotic wood decking planks.
    2. DeckWise Extreme Plugs: Premium plugs with numerous advantages over traditional wood plugs.
       1. Size: 3/8 inch (9.5 mm).
       2. Size: 0.39 inch (10 mm).
       3. Size: 0.47 inch (12 mm).
       4. Tapered 1 inch (25 mm) for easy installation
       5. Manufactured with Tolerance Absorbing Rings to help fill the void in a hole that is not drilled perfectly round.
    3. Ipe Clip: IPE CLIP System is an edge mount deck fastening system No surface screws showing.
       1. Polymer molded and reinforced with a stainless steel insert, for use on 3/4 inch (19 mm), 1 inch (25 mm) or thicker material.
       2. Comes with high grade 305 grade stainless steel screws with painted heads and a T15 torx drive.
       3. Recommended for saltwater applications.
    4. Eb-Ty:
       1. An edge-mount deck fastening system.
       2. No surface screws showing.
       3. Not recommended for 3/4 inch (19 mm) material.
    5. DeckWise Decking Screws: Made from 305 stainless steel. Suitable for marine environments, snowy mountain climates, humid tropical regions, or dry deserts. DeckWise screws feature:
       1. T-15 Star Drive Tips to improve stripping resistance during installation.
       2. Auger Tips for smoother installation on hard and dense wood like Ipe.
       3. No. 8 x 1 inch (25 mm), 305 Stainless T15 Star Drive Screws.
       4. No. 8 x 1-1/2 inch (38 mm), 305 Stainless T15 Star Drive Screws.
       5. No. 8 x 2 inch (51 mm), 305 Stainless T15 Star Drive Screws.
       6. No. 8 x 2-1/2 inch (64 mm), 305 Stainless T15 Star Drive Screws.
       7. No. 8 x 3-1/8 inch (79 mm), 305 Stainless T15 Star Drive Screws.
    6. DeckWise Colormatch Deck Screws: Feature he same benefits of the standard DeckWise decking screws but also have color matched heads to create a uniform look.
       1. No. 8 x 1 inch (25 mm), 305 Stainless T15 Star Drive Screws.
       2. No. 8 x 1-1/2 inch (38 mm), 305 Stainless T15 Star Drive Screws.
       3. No. 8 x 2 inch (51 mm), 305 Stainless T15 Star Drive Screws.
       4. No. 8 x 2-1/2 inch (64 mm), 305 Stainless T15 Star Drive Screws.
       5. No. 8 x 3-1/8 inch (79 mm), 305 Stainless T15 Star Drive Screws.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Cedar.
      2. Color: Hardwood Brown.
      3. Color: Outdoor Grey.
      4. Color: Rosy Brown.
      5. Color: Shadowline Black.
      6. Color: Stainless Steel.
    1. DeckWise HTSS Deck Screws: Lessen stripping, snapping, and headaches when installing deck fasteners.
       1. Provided with TTAP T-15 Star Drive head. In situations where a deck board needs to be screwed close to an edge, the DeckWise HTSS, with its serrated thread and four sided tips, will minimize any splitting or splintering.
          1. No. 8 x 1-3/4 inch (44 mm), Grade 18/8 Heat-Treated Stainless Trim Head TTAP T15.
          2. No. 8 x 2 inch (51 mm), Grade 18/8 Heat-Treated Stainless Trim Head TTAP T15.
    2. DeckWise Bugle Head Deck Screws: Stainless steel.
       1. No. 10 x 2-1/2 inch (64 mm) 305 Stainless Steel T25 Screws.
       2. No. 10 x 3-1/8 inch (79 mm) 305 Stainless Steel T25 Screws.
    3. DeckWise Colormatch Bugle Head Deck Screws: Stainless steel have color matched heads to create a uniform look.
       1. No. 10 x 2-1/2 inch (64 mm) 305 Stainless Steel T25 Screws.
       2. No. 10 x 3-1/8 inch (79 mm) 305 Stainless Steel T25 Screws.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: Cedar.
      2. Color: Hardwood Brown.
      3. Color: Outdoor Grey.
      4. Color: Rosy Brown.
      5. Color: Shadowline Black.
      6. Color: Stainless Steel.
    1. DeckWise Metal Joist Deck Screws:
       1. Size: No. 7 x 1-5/8 inch (41 mm) 410 Stainless Steel T15 Screws.
    2. DeckWise Joist Tape:
       1. Malleable polyethylene waterproof wood flashing material, using a rubberized asphalt mastic adhesive.
       2. Apply to decking joists, around deck support posts, and over ledger boards.
       3. Each roll contains: 3 inches (76 mm) wide x 75 ft (22.860 m) long.
    3. DeckWise Ledger Tape:
       1. Flexible polyethylene waterproof wood flashing material, using a rubberized asphalt mastic adhesive.
       2. Apply this to ledger boards and in-ground wooden deck posts.
       3. Each roll contains: 12 inches (305 mm) wide x 25 ft (7.62 m) long.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. Verify support framing is ready to receive decking.
      3. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Coordinate placement of bearing or support items.
      3. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions.
      2. Install decking perpendicular to framing members, with ends staggered over firm bearing. On sloped surfaces, lay decking with tongue upward.
      3. Allow expansion space at edges and ends.
      4. Scribe and cope as required for accurate fit to adjacent construction.
   4. CLEANING AND PROTECTION
      1. Protect installed products until completion of project.
      2. Protect from damage during construction operations. Promptly repair any damaged surfaces. Remove and replace work which cannot be satisfactorily repaired.
      3. Touch-up, repair or replace damaged products before Substantial Completion.

\*\* NOTE TO SPECIFIER \*\* Retain Article below if required to suit project requirements. Identify products by name on the Drawings or use this paragraph to define the location of each type of material to be used. The following are some examples of schedule references. Edit as required to suit project or delete and identify products on the Drawings.

* 1. SCHEDULES

END OF SECTION