

Oldcastle Wood Pavers provide a practical solution for maximizing space and building decks. Utilizing both fixed height and fully adjustable pedestals, construction crews are able to efficiently install Wood decks over sloping, difficult or uneven surfaces. Oldcastle Wood Pavers allow future access to the waterproofing membrane or rooftop utility lines by simply removing specific Wood pavers.

Part 1: General

- 1.01 Section Includes
 - A. Roof pavers
 - B. Deck pedestals

1.02 Related Sections

- A. Section 061500 Wood Decking
- B. Section 065000 Structural Plastics
- C. Section 067300 Structural Composites
- D. Section 075000 Membrane Roofing
- E. Section 077246 Roof Walkways
- F. Section 077600 Roof Pavers
- G. Section 096900 Access Flooring

1.03 Submittals

- A. Submit in accordance with Section 013000
 - 1. Shop drawings showing layouts, sizes and sections
 - 2. Product data
 - 3. Samples
 - 4. Delivery, storage and handling requirements and recommendations
 - 5. Installation methods
 - 6. Warranties

1.04 Quality Assurance

Α.

- Manufacture qualifications
 - 1. Primary products specified in this section to be supplied by a manufacture with a minimum of ten (10) years' experience
- B. Installer Qualifications
 - 1. Must show successful completion of similar sized projects
 - 2. Must be capable of estimating and installing from blueprint plans and details
 - 3. Must know how to properly handle and store materials being used
 - 4. Must verify the structure can sustain the dead and live load weight(s) involved
 - 5. Must verify the density of any insulation (if applicable) is satisfactory to resist crushing and damaging the waterproofing membrane
 - 6. Must conform to all local and state licensing and bonding requirements

1.05 Delivery, Storage and Handling

- A. Deliver materials to project site in the original packaging with the manufacture's labels intact and legible
- B. Inspect all materials to ensure they are undamaged and in good condition
- C. Store materials in a clean, dry and protected location
- D. Ensure waterproofing membrane is not damaged while delivering, storing or handling material

1.06 Project Conditions

- A. There are no installation temperature restriction guidelines other than the practical considerations of working in any unsafe condition or inclement weather.
- B. Deck supports specified are to be for used with pedestrian traffic only.
- C. Pedestrian decks must be restrained by perimeter blocking or walls on all sides. Lateral movement greater than one tab width is unacceptable and will be rejected.
- D. Installation or anticipated installation of additional items on top of the deck, (such as planters, concrete benches, sculptures, hot tubs, grills, or industrial equipment) must be supported directly by additional pedestals that are in addition to the main deck paver/tile pedestal system. Special consideration must be also given when installing equipment that vibrates. Total weights must be calculated and dispersed evenly over the number of pedestals needed to carry the expected weight. To avoid point loading, the use of planters or architectural features with 'feet' is not allowed. Failure to adequately support the additional weight of any such features or items may cause significant damage to the deck, underlying structure, or waterproofing system.
- E. All decks shall be designed to not exceed the design capacity of the pedestal.
- F. The substrate immediately below the pedestals shall provide positive drainage.
- G. In the case of decks over roofing substrates, roof systems must meet local building code and be in accordance with the NRCA recommended good construction practices. Only roofing manufacturer approved systems shall be used.
- H. Decks over roofing and waterproofing:
 - 1. If integral roof insulation is installed immediately below the membrane, the type and density of the insulation (40 psi minimum) is of utmost importance. Roofing systems having "common" insulations with a medium density of 20 psi must also use a recovery board.
 - 2. If high density closed cell extruded 40 psi polystyrene insulation is installed on top of the membrane in a protected membrane system, Pedestals may be installed directly on top of this type of insulation.
 - 3. Do not use Pedestals over any insulation less than 20 psi or with low density polystyrene (bead board) insulation.

Part 2: Products

2.01 MANUFACTURER

A. Oldcastle Architectural, Inc. 400 Perimeter Center Terrace Suite 1000

Atlanta, GA 30346

B. Substitutions: Not permitted
1. Substitutions will be considered in accordance with Section 016000

2.02 PAVER SYSTEM (select one)

- Level System: Provides a level paver surface over a sloped roofing assembly 1. Compensates for various sloping substrates
- 2. Can utilize both fixed height and fully adjustable pedestals depending on project conditions.
- B. Sloped System: Provides a paver surface that conforms to the slope of the roofing assembly.

2.03 WOOD PAVERS

Α.

- A. Ipe Wood Pavers
 - 1. Weight per square foot: 6 lbs.
 - 2. Available sizes
 - a. 23.875" x 23.875" x 1.69"
 - b. 47.9375" x 23.875" x 1.69"
 - c. 72" x 23.875" x 1.69"
 - d. Color: Brown (natural product will have variations in graining and color)
 - e. Fire rating: Class A meets ASTM E108 Spread of Flame Test
- B. Cumaru Wood Pavers
 - 1. Weight per square foot: 6 lbs.
 - 2. Available sizes
 - a. 23.875" x 23.875" x 1.69"

- b. 47.9375" x 23.875" x 1.69"
- c. Color: Golden Brown (natural product will have variations in graining and color)
- d. Fire rating: Class A meets ASTM E108 Spread of Flame Test
- C. Garapa Wood Pavers
 - 1. Weight per square foot: 4.5 lbs.
 - 2. Available sizes
 - a. 23.875" x 23.875" x 1.69"
 - b. Color: Brown (natural product will have variations in graining and color)
 - c. Fire rating: Class A meets ASTM E108 Spread of Flame Test
- D. Itauba Wood Pavers
 - 1. Weight per square foot: 6 lbs.
 - 2. Available sizes
 - a. 23.875" x 23.875" x 1.69"
 - b. Color: Golden Brown (natural product will have variations in graining and color)
 - c. Fire rating: Class A meets ASTM E108 Spread of Flame Test

2.04 PEDESTALS

- A. Typical Height Range 0-36 inches (bracing required above 24 inches)
- B. Weight Bearing Design Capacity 1000 lbs/pedestal FS:3
- C. Integral spacer tabs
- D. Material: Mineral Filled High Density Copolymer Polypropylene. Contains 20% Postindustrial recycled material.
- E. SE Series adjustable pedestals
 - 1. Model SÉ0: 1.125 inches to 1-1/2 inches (28 mm 38 mm).
 - 2. Model SE1: 1-1/2" inches to 2 inches (37.5 mm 50 mm)
 - 3. Model SE2: 2 inches to 3 inches (50 mm 75 mm).
 - 4. Model SE3: 3 inches to 4-3/4 inches (75 mm 120 mm).
 - 5. Model SE4: 4-3/4 inches to 6-3/4 inches (120 mm 170 mm).
 - 6. Model SE5: 6-3/4 inches to 8-1/2 inches (170 mm 215 mm).
 - 7. Model SE6: 5-1/2 inches to 9 inches (140 mm 230 mm).
 - 8. Model SE7: 7-1/4 inches to 10-3/4 inches (185 mm 275 mm).
 - 9. Model SE8: 9-1/4 inches to 12-3/4 inches (235 mm 325 mm).
 - 10. Model SE9: 8 inches to 13-1/2 inches (205 mm 345 mm).
 - 11. Model SE10: 9.875 inches to 15 inches (250 mm 385 mm).
 - 12. Model SE11: 11-3/4 inches to 15-3/4 inches (300 mm 400 mm).
 - 13. Model SE12: 10-1/2 inches to 18 inches (270 mm 455 mm).
- F. NM Series adjustable pedestals
 - 1. Model NM1: 1 inch 1.57 inch (25-40 mm)
 - 2. Model NM2: 1.57 inch 2.75 inch (40-70 mm)
 - 3. Model NM3: 2.36 inch 3.93 inch (60-100 mm)
 - 4. Model NM4: 3.54 inch 6.30 inch (90-160 mm)
 - 5. Model NM5: 5.90 inch 10.63 inch (150-270 mm)
 - 6. Model P NM: NM Extension 5 inch (165 mm)
 - 7. Model Slope Compensator: Compensates 0 1 percent Slope
- G. Pedestal Prime adjustable pedestal
 - 1. Model PR1: 1.18" 2.55" (35-65 mm)
 - 2. Model PR2: 2.55" 6.10" (65-155 mm)
 - 3. Model PR3: 6.10" 16.53" (155-420 mm)
- H. ScrewJack adjustable pedestals
 - 1. Model B1: 1.25" 2" (32-51mm).
 - 2. Model B2: 2" 3" (51-76mm).
 - 3. Model B3: 3" 4.75" (76-121mm).
 - 4. Model B4: 4.75" 7.75" (121-197mm).
 - 5. Model C4 Extension: 2" 4" (50.8-101.6 mm).
- I. Fixed height pedestals:
 - 1. Model EH12: 0.5" (12mm)

- 2. Model EH15: 0.625" (16mm)
- 3. Model EH20: 0.75" (20mm)
- 4. Model VT316: 0.125" inch (3.175mm).
- 5. Model HD25: 0.25" (6.4mm)
- 6. Model HD50: 0.50" (13mm)
- 7. Model HD75: 0.75" (19mm)
- J. Accessories:
 - 1. Model: LD4 Placed beneath pedestals to compensate for slopes up to 1/4 inch per foot. Stack up to four LD4's under one pedestal for up to 1 inch of slope compensation.
 - 2. Model: B11 Flexible Shim 1/16 inch. Material: (1.5mm) Sanaprene.
 - 3. Model: PS1 Rigid Poly Shims 1/8 inch (3.175mm). Material: Mineral filled high density copolymer polypropylene.
 - 4. Model FFB: Pedestal base pad for on grade use, provides a large 12 inch by 12 inch x ¼ inch (305mm x 305mm x 6 mm) base bearing surface for on grade installations.
 - Model FIB: Pedestal base pad for use on roofing and waterproofing installations over low density insulation (20 psi minimum), provides a large 12 inch by 12 inch x 11/16 inches (305mm x 305mm x 17.5mm) base bearing surface.

Part 3: Execution

3.01 INSPECTION

- A. Pedestals are smooth, sound, clean and free of irregularities
- B. Related work penetrating the plane of the roof is completed (i.e. roof membrane)
- C. Verify that the roof deck will sustain the weight of the Wood Paver system
- D. Verify deck dimensions, elevations and pedestal heights before commencing work
- E. Do not commence paver application until unsatisfactory conditions are satisfied

3.02 PREPARATION

- A. Clean and prepare deck in accordance with manufacturer's instructions.
- B. Establish visual pattern with accurate lines and levels.
- 3.03 INSTALLATION (requirements for installation are dependent upon individual project needs).
 - A. First, determine a starting point; this will be largely dependent on where less than full size pavers are to be used.
 - B. If partial paver at perimeter is necessary, begin installation of full pavers at the second row in the roof field.
 - C. Mark perpendicular guidelines on substrate surface to ensure square layout
 - D. Establish a grid pattern for the pedestals using chalk lines. Place pedestals at the grid line intersections. If the Level System is used, use a laser leveling device or a mason's line stretched from opposite sides to select the correct model of Adjustable Pedestal.
 - E. Install initial pavers along guidelines forming a "T" pattern.
 - F. Install Wood Pavers against spacing ribs of pedestal.
 - G. Fine tune adjustments to the paver surface can be made by using the pedestal shims.
 - H. Any section of the roof that receives wood pavers that is not restrained by an abutting wall or parapet must be "boxed in" by some field installed restraint.
 - 1. No movement should be allowed at the perimeter of the paver system greater than 3/16 inch.

Part 4: Maintenance

4.01 CLEANING

- A. During the course of the work and on completion, remove any cut dust from the surface of the pavers by means of high-pressure water or air. Extreme care should be taken when using high-pressure water to avoid potential damage when used in a concentrated area.
- B. Cleaning agents can be used as long as they are approved by the membrane manufacture. Oldcastle assumes no responsibility for damage caused to the pavers or membrane as a result of cleaners used.
- C. Clean surface of paver using a broom or brush

- D. Once cleaned, rinse the pavers completely to avoid staining
- E. Do not use de-icing agents including but not limited to Ammonium Nitrate, Ammonium Sulfate, Sodium Chloride (salt) and Calcium Chloride; these agents can be destructive and cause damage to pavers.
- F. Wood Pavers can be easily removed from their existing locations; this will allow easy access for repairs or cleaning of the substructure.

4.02 WOOD PAVER CARE & MAINTENANCE

- A. Sealing & Staining: Wood stabilizers or sealants can help mitigate the loss of moisture and minimize checking and splitting. Cleaning and/or sanding the surface of the wood prior to applying the sealer can help the product penetrate deeper into the wood grain. Due to the density of the hardwood, all the applied product may not be absorbed. Follow manufacturer's recommendations to gently wipe off the excess stain for a more even uniform appearance. To minimize checking or small cracks, the installer should consider sealing any cut ends with an appropriate glue or end sealer specifically designed for use on exterior wood such as PVA Wood Glue by Elmer's or Gorilla. Small checks and splits are normal and a natural part of the wood as the wood balances with the humidity of the surrounding climate. The following manufacturers offer sealing products specifically designed for use with exotic hardwoods: Messmer's, Penofin, Defy, or TimberPro.
- B. Sanding: If you plan to seal or stain your Wood Tiles, a light sanding is highly recommended. Use 120 grit sandpaper to reduce the appearance of any minor marks, scratches, or imperfections. Use 200+ grit sandpaper to lightly sand the Wood Tiles for a more uniform appearance. After sanding, sweep the tiles and use water to rinse away any remaining dust. Allow to dry thoroughly before applying sealer. Exercise caution when sanding Bison Ribbed Wood Tile surfaces. DO NOT use steel wool to sand any wood tile. Always use gloves, eye protection, and dust respirators when sanding.
- C. Natural Aging: Left to weather naturally and depending on climatic conditions, Wood Tiles will develop a silvery-gray patina. If you prefer this look, apply a coat of wood stabilizer after installation. Some products provide UV protection, allowing your wood tiles to acclimate more uniformly as weather and environmental conditions season the deck. NOTE: Each board has unique characteristics and will weather at different rates. The amount of direct and indirect sunlight, temperature, humidity, moisture, furniture placement, and other local conditions will factor into the aging of the deck.

PROPOSITION 65

▲WARNING: This product can expose you to chemicals including wood dust, which are known to the State of California to cause cancer, and chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

END OF SECTION