



CLUBHOUSE[®]
D E C K I N G

SECTION 06 7300

PVC DECKING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. PVC decking.
- B. Related Sections:
 - 1. Division 01: Administrative, procedural, and temporary work requirements.
 - 2. Section [06 1100 - Wood Framing:] [_____ - _____:] Wood framing and supports.

1.2 REFERENCES

- A. ASTM International (ASTM):
 - 1. C177-04 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties
 - 2. D143-94(2000) - Standard Test Methods for Small Clear Specimens of Timber.
 - 3. D198-05 - Standard Test Methods of Static Tests of Lumber in Structural Sizes.
 - 4. D1761-06 - Standard Test Methods for Mechanical Fasteners in composite.
 - 5. D1929-96(2001) - Standard Test Method for Determining Ignition Temperature of Plastics.
 - 6. E84-07 - Standard Test Method for Surface Burning Characteristics of Building Materials.

1.3 SUBMITTALS

- A. Submittals for Review:
 - 1. Product Data: Indicate sizes, profiles, surface finishes, and performance characteristics.
 - 2. Samples: [12] inch long decking samples illustrating size, profile, color, and surface finish.
- B. Closeout Submittals:
 - 1. Maintenance Data: Manufacturer's instructions on care and cleaning of composite wood products.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, and handle PVC deck in accordance with manufacturer's instructions.
- B. Store PVC deck level and flat, off ground or floor, with supports at each end and maximum 24 inches on center.
- C. Do not stack PVC deck over 12 feet high.
- D. Cover PVC deck with waterproof covering, vented to prevent moisture buildup.

1.5 WARRANTIES

- A. Furnish manufacturer's limited lifetime warranty/ 25 year limited fade & stain warranty providing coverage against checking, splitting, splintering, rotting, structural damage from termites, and fungal decay of PVC deck.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by Clubhouse Decking.
Acceptable Manufacturer: Clubhouse Decking - The Tapco Group, which is located at:
29797 Beck Rd. ; Wixom, MI 48398-2834; Toll Free Tel: 866-288-2726; Tel: 877-437-0608;
Fax: 843-752-0111; Email: Wayne_Sanderson@tapcoint.com ; Web: www.thetapcogroup.com/brands
- B. Substitutions: Not permitted.
- A. C. Requests
- B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS

- A. Composite Decking:
 - 1. Composition: Clubhouse Decking is co-extruded with a cellular PVC core and an acrylic capstock.
 - 2. Profiles:
 - a. Decking: Square Edge 16' and 20'
 - b. Decking: Grooved 12', 16' and 20'
 - 3. Surface texture:
Deep embossed random wood grain with low gloss skid resistant finish
 - 4. Color[s]: Ironwood, Mahogany, Walnut, Ipe , Brookstone, Cobblestone, Sandstone, Clay
 - 5. Characteristics:
 - a. Abrasion resistance: 0.01 inch wear per 1000 revolutions, tested to ASTM D2394.
 - b. Hardness: 1124 pounds, tested to ASTM D143.
 - c. Self ignition temperature: 743 degrees F, tested to ASTM D1929.
 - d. Flash ignition temperature: 698 degrees F, tested to ASTM D1929.
 - e. Flame spread rating: 80, tested to ASTM E84.
 - f. Water absorption
 - g. 168 days immersion less than 0.0200
 - h. Thermal expansion coefficient, 36 inch long samples:
 - 1) Width: 35.2×10^{-6} to 42.7×10^{-6} .
 - 2) Length: 16.1×10^{-6} to 19.2×10^{-6} .
 - i. Fastener withdrawal, tested to ASTM D1761:
 - 1) Nail: 163 pounds per inch.
 - 2) Screw: 558 pounds per inch.
 - j. Static coefficient of friction:
 - 1) Dry: 0.53 to 0.55, tested to ASTM D2047.
 - 2) Dry: 0.59 to 0.70, tested to ASTM F1679.
 - 3) Wet: 0.70 to 0.75, tested to ASTM F1679.
 - k. Fungus resistance, white and brown rot: No decay, tested to ASTM D1413.
 - l. Termite resistance
 - m. Specific gravity: 0.91 to 0.95, tested to ASTM D2395.
 - n. Compression:
 - 1) Parallel: 1806 PSI ultimate, 550 PSI design, tested to ASTM D198.
 - 2) Perpendicular: 1944 PSI ultimate, 625 PSI design, tested to ASTM D143.
 - o. Tensile strength: 854 PSI ultimate, 250 PSI design, tested to ASTM D198.
 - p. Shear strength: 561 PSI ultimate, 200 PSI design, tested to ASTM D143.
 - q. Modulus of rupture: 1423 PSI ultimate, 250 PSI design, tested to ASTM D4761.
 - r. Modulus of elasticity: 175,000 PSI ultimate, 100,000 PSI design, tested to ASTM D4761.

- s. Thermal conductivity: 1.57 BTU per inch per hour per square foot at 85 degrees F, tested to ASTM C177.

2.3 ACCESSORIES

- A. Fasteners: Connect Clip or [Coretex Screw] or [Hot dip galvanized steel] [or] [stainless steel] or [composite decking screws] or [nails] of length recommended by PVC decking manufacturer for profile being fastened.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install PVC decking in accordance with manufacturer's instructions.
- B. Cut, drill, and rout composite decking using carbide tipped blades.
- C. Pre-drill fastener holes located closer than 1 inch from edges.
- D. Cut ends square and true.
- E. Do not use composite decking products as structural members.
- F. Do not exceed maximum spans recommended by manufacturer.
- G. Place boards [perpendicular] [diagonal] to supports.
- H. Stagger end joints in adjacent rows at least one support.
- I. Leave expansion spaces between abutting boards and between boards and adjacent construction:
 - 1. End gaps between boards: 1/8 inch at ambient temperatures of 60 degrees F and above and 3/16 inch at ambient temperatures below 60 degrees F.
 - 2. Side gaps between boards: 1/4 inch at ambient temperatures of 60 degrees F and above and 3/8 inch at ambient temperatures below 60 degrees F.
 - 3. Gaps between boards and adjacent construction: 1/4 inch at ambient temperatures of 60 degrees F and above and 1/2 inch at ambient temperatures below 60 degrees F.
- J. Place boards to span three or more supports.
- K. Fasten each board to each support with two fasteners.

3.2 CLEANING

- A. Clean PVC decking to remove stains:
 - 1. Mold, mildew, and berry and leaf stains: Clean surfaces with conventional deck wash containing detergent.
 - 2. Oil and grease: Clean surfaces with detergent containing degreasing agent.

END OF SECTION