

SECTION 07185 – TRAFFIC MEMBRANE**PART 1 – GENERAL****1.1 SECTION INCLUDES**

- A. Traffic membrane, consisting of welded seam PVC waterproofing, over following surfaces:
 - 1. Decks, balconies, and sun porches
 - 2. Walkways, ramps, and stairways
 - 3. Patios and courtyards

1.2 RELATED SECTIONS

- A. Section 06100 – Rough Carpentry
- B. Section 07620 – Sheet Metal Flashing and Trim: counterflashings and fascias.
- C. Section 07710 – Manufactured Roof Specialties: Scuppers, counterflashings, and fascias.
- D. Section 15146 – Plumbing Specialties: Roof drains and deck drains.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's specifications, including data substantiating compliance with physical properties specified.
- C. Shop Drawings: Installation and seaming plan, showing joints, termination details, and interface with other materials.
- D. Samples: Two each, minimum 6" X 6" showing color, texture, and pattern.
- E. Manufacturer's printed installation instructions and recommendations, including precautions required for seaming and adhering membrane.
- F. Installer qualifications.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in providing products of the type specified in the section, with a minimum of 10 years' experience.

- B. Installer Qualifications: Company experienced in the successful installation and application of the product type specified in this section.
- C. Pre-Installation Meeting: Discuss application, staging, start and completion time, and precautions applicable to this project.
 - 1. The attendance of the following is required:
 - a. Manufacturer's representative
 - b. Contractor's field superintendent
 - c. Installation foreman
 - d. Other trades affected by this work
 - e. Owner's representative

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original containers, dry and undamaged, with seals and labels.
- B. Store and handle materials to prevent damage.
 - 1. Place materials on pallets, off ground or substrate.
 - 2. Prevent creasing of rolled materials.
 - 3. Do not use creased or damaged materials.
 - 4. Polyethylene is not an acceptable cover to store materials.
- C. Keep materials at temperatures between 40 degrees F and 80 degrees F; if adhesives are exposed to lower temperatures, verify usability with manufacturer before using.

1.6 WARRANTY

- A. Provide membrane manufacturer's standard 7-year warranty, covering defects in material.
- B. Provide installing contractor's stand 2-year warranty, covering defects in workmanship.

PART 2 – PRODUCTS**2.1 MANUFACTURER**

- A. Manufacturer: Provide products of the following:
 - 1. DeckRite LLC
3912 East Progress
North Little Rock, AR 72114
(888) 450-3325 Fax: (501) 604-0235
- B. Requests for substitution will be considered in accordance with provisions of Section 01600.
- C. Substitutions: Not permitted.

2.2 MATERIALS

- A. Traffic membrane: DeckRite is a Flexible PVC membrane designed as a water resistance, slip resistant walking surface for application on decks, patios, balconies, boat docks, sun porches, and other exterior walkways.
 - 1. Sheet width: 68 inches
 - 2. Sheet length: 90 feet (30 yards)
 - 3. Overall sheet thickness: 0.050 inches (Series 500) or
0.060 inches (Series 600)
 - 4. Standard Colors: Slate Gray, Sahara Tan, Tropical Cream, Lakewood Marble, and Tuscany Sand
 - 5. Slip Resistance: Meets Americans with Disabilities (ADA) requirements for slip coefficient on flat surface
- B. Bonding Adhesive: Supplied by the membrane manufacturer to adhere membrane to substrate.
- C. Termination Bar: 1" X 6' aluminum bar, supplied by the membrane manufacturer to terminate edges.
- D. Perimeter Fasteners: Mechanical fastening devices furnished by the membrane manufacturer: color coordinated to membrane color.
- E. Caulk: Color matched caulk, as supplied by the membrane manufacturer.

PART 3 – EXECUTION**3.1 EXAMINATION**

- A. Verify that surfaces and site conditions are ready to receive work and conform to membrane manufacturer's requirements.
- B. Verify that deck is secure, solid, well supported, and in accordance with local code structural requirements.
- C. Verify that the deck is free of ice and snow, dry, clean and smooth, free of depressions, waves, projections, and properly sloped to drains or deck edge.
- D. Verify that all screws and/or nail heads are flush with or countersunk in the plywood surface being fastened to the joists/supports.
- E. Verify that adjacent precast deck members are flush within 1/4" vertical variation, with grout keys filed flush.
- F. Notify the Architect of any conditions that would prevent satisfactory completion of the work.

3.2 PREPARATION

- A. Do not proceed with installation until substrate preparation is complete.
- B. Coordinate timing of installation to avoid construction traffic over completed traffic membrane surfaces.
- C. Wood Deck (new): Suggested deck is 3/4" pressure treated exterior grade A-C plywood (tongue & groove optional).
- D. Wood Deck (recover existing): The minimum wood deck acceptable on a recover installation is 1/2" pressure treated exterior grade A-C plywood.
- E. Wood Deck: fill joints, knot holes, voids and low areas with filler and sand smooth.
- F. Wood Deck – Class A: Cover plywood deck with cementitious board meeting requirements of Class A approved application.
- G. Concrete Deck (new): Concrete deck must have a steel troweled finish. Verify that the concrete sections of the specification include this requirement.

- H. Concrete Deck (existing): Patch all cracks, holes, joints, and score marks. Fill surface imperfections and variations with leveling compound. Test for and remove any surface contaminants.
- I. Coordinate installation with installation of drains and similar accessories.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's latest instructions, details and specifications.
- B. Do not install when temperatures are **below 40 degrees F**.
- C. Ensure all screws are flush with or countersunk in plywood surface.
- D. Membrane Installation
 - 1. Position membrane over approved substrate without stretching
 - a. Allow 2-4 inches of membrane to go up the vertical walls, posts, and over deck perimeter.
 - 2. Attachment: Apply bonding adhesive and adhere membrane to approved substrate as per manufacturer's instructions.
 - 3. Laps: Position adjoining sheets, lapping edges a minimum of 1"
 - 4. All seams shall be hot air welded together.
 - 5. Mechanically fasten all perimeter edges and penetrations.
 - 6. Install flashings and accessories in accordance with manufacturer's latest detailed instructions.
 - 7. Seal around all penetrations, drains, and edges.

3.4 CLEANING

- A. Clean soiled areas in accordance with manufacturer's recommendations.
- B. Repair any damaged areas to match original materials.

3.5 PROTECTION

- A. Protect finished work from traffic using durable temporary materials.

END OF SECTION 07185