

SECTION 07 18 13 PEDESTRIAN TRAFFIC COATING
SECTION 07 54 19 POLYVINYL CHLORIDE (PVC) MEMBRANE WATERPROOFING
IB ROOF SYSTEMS FULLY ADHERED DECKSHIELD MEMBRANE

Part 1 GENERAL

1.0 SECTION INCLUDES

- A. Waterproof Vinyl Walkable Membrane
- B. Flexible Membrane Flashings
- C. Adhesives
- D. Metal Flashings
- E. Accessories

1.1 RELATED SECTIONS

- A. Section 03 30 00 Cast-In-Place Concrete
- B. Section 06 10 00 Rough Carpentry
- C. Section 06 10 53 Miscellaneous Rough Carpentry for wood nailers, curbs, block and for wood-based structural-use roof deck panels.
- D. Section 06 20 13 Exterior Finish Carpentry
- E. Section 07 18 13 Pedestrian Traffic Coatings
- F. Section 07 54 19 Polyvinyl Chloride Roofing
- G. Section 07 60 00 Flashing and Sheet Metal
- H. Section 07 70 00 Roof and Wall Specialties and Accessories
- I. Section 08 60 00 Roof Windows and Skylights

1.2 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM D4263: Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method
 - 2. ASTM D4434: Standard Specification for Poly (Vinyl Chloride) Sheet Roofing
 - 3. ASTM E96: Standard Test Methods for Water Vapor Transmission of Materials
 - 4. ASTM E108: Standard Test Methods for Fire Tests of Roof Coverings.
- B. International Code Council (ICC):
 - 1. ICC-ES AC39: Acceptance Criteria for Walking Decks
 - 2. ICC-ES AC75: Acceptance Criteria for Roofing Membrane and Roof Covering Systems
- C. CAN / CGSB 37.54-95: Canadian General Standards Board – Standard for Roofing and Waterproofing Membrane, Sheet Applied, Flexible Polyvinyl Chloride
- D. ANSI / SPRI / FM4435 / ES-1: Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems, Revision as adopted by local code and AHJ
- E. National Roofing Contractors Association (NRCA): Low Slope Roofing and Waterproofing Manual, Current Edition

1.3 DESIGN CRITERIA

- A. Provide installed thermoplastic traffic membrane for decks, balconies, sun porches, walkways, courtyards, and other exterior walkways.
- B. Building Code Compliance: The assembly shall comply with the requirements of the local building code and authorities having jurisdiction.
- C. Drainage: Decks should be designed and constructed to provide adequate drainage.

1. A minimum ¼" per foot slope is recommended for best results. Low slope decks commonly utilize both perimeter edge drainage and interior drainage by means of primary and secondary drainage outlets.
 2. Specific project drainage requirements depend on a variety of factors including building design, roof deck and perimeter edge design, building location, historical maximum rainfall rates, building storm water drainage system design and local code requirements.
 3. Roof systems by IB are designed for use with the following types of roof drains, outlets, and perimeter edge details:
 - a. Cast iron roof and overflow drains with integral clamping rings
 - b. IB supplied deck drain or other approved drains designs for use with IB PVC flashings.
 - c. Sheet metal scuppers constructed with IB PVC clad flashing metal or designed for use with IB PVC flashings
 - d. Approved IB Edge Details constructed with IB PVC clad flashing metals, IB Termination Bar, or approved IB 2-piece Edge or Fascia Details with Kynar coated metal.
- D. Substrates:
1. APA Rated Exterior Grade AC Tongue & Groove or Square Edge Plywood – nominal 3/4" thickness
 2. Poured Structural Concrete with Steel Trowel Finish – minimum 2,500 psi compressive strength.
 3. Substrate Thermal Barrier / Coverboards: IB Approved moisture resistant, glass-mat roof boards meeting ASTM C1177; gypsum-fiber roof boards meeting ASTM C1278; or cement roof boards meeting ASTM C1325. Refer to IB Technical Services and current IB Product Approvals and listings.
- E. Chemical Compatibility:
1. PVC membrane are with incompatible substances such as asphaltic bitumen, asphaltic mastics, coal tar-based products, creosote treated products, pressure treated wood products, polystyrene insulation (EPS and XPS) and harsh chemicals and must not come in contact with PVC. Long term water run-off can affect the appearance of the membrane.
 2. Avoid contact with copper-based metals as the water run-off from copper can discolor and affect the appearance of the membrane.
 3. Many chemicals and cleaning solutions that remain on the membrane can cause permanent discoloration or damage to the PVC membrane. Contact IB Technical Services for questions regarding chemical incompatibilities.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Product Data: Submit product data on each product to be used including:
1. Product Data Sheets
 2. Material Safety Data Sheets
 3. Substrate preparation instructions and recommendations
 4. Storage and handling requirements and recommendations
 5. Membrane assembly installation instructions and recommendations
 6. Sample of Manufacturer's Warranty
 7. Manufacturer recommended Maintenance Program Data
- C. Detail Drawings:
1. Provide deck section, plan, attachment, and manufacturer's standard detail drawings and applicable shop drawings showing installation methods, components, flashing conditions, termination details and interface/intersections with other materials.
- D. Verification Samples: Submit a quantity of _____ samples for each product specified. Submit 6" x 9" PVC membrane samples in the specified color for approval.
- E. Installer Qualifications:
1. State or Local License if applicable
 2. Manufacturer's Certification

3. Industry Certification

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum 20 years documented experience.
- B. Installer Qualifications:
 - 1. Company specializing in the installation of thermoplastic roofing and all products included in this section with minimum of ____ years documented experience.
 - 2. Installer must be authorized by the manufacturer and eligible to provide the required Manufacturer's Warranty.
 - 3. Installer must provide supervision and an adequate number of experienced workers, trained in jobsite safety practices and skilled in the use of hot air welding equipment and the installation of materials and flashings used in the construction of the roofing assembly.
- C. Installing contractor is an independent IB Authorized Applicator who sells and install IB materials. Contracting firm is independently operated and remain wholly independent from IB Roof Systems. Contractors have no authority to assume nor create any obligation or liability whatsoever, expressed or implied on behalf of IB Roof Systems. Further, IB assumes no responsibility for representations, warranties, errors, or omissions made by those other than IB authorized personnel. Contractors are solely responsible and liable for their workmanship, related repairs, work related defects and related workmanship warranty.
- D. Application of Roofing: Work of this section shall conform to contract documents and manufacturer specifications. No deviations shall be made from this specification without the approval of the designer of record. Deviations from published manufacturer requirements require review and approval of the designer of record and written approval from the manufacturer on manufacturer's letterhead, signed by an authorized technical manager of the company. Where discrepancies exist, the Installer shall promptly notify the design professional, project engineer or owner for resolution prior to commencing work.
- E. Materials: Provide only top-quality materials of manufacturer complying with specification requirements. All materials shall be provided by the primary membrane system manufacturer or approved for use in conjunction with installation of the decking assembly.
- F. 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 construction, color, and details are approved by Architect or Owner. Complete mock-up as required to produce acceptable work.
 - 3. Pre-Installation Meeting: Discuss waterproof practices and precautions applicable to this project.

1.6 DELIVERY, STORAGE AND HANDLING

- A. All materials shall be stored in a dry area and protected from the elements. Store membrane rolls flat on pallets.
- B. Materials and equipment stored on the deck must be properly staged and supported to avoid damage and / or permanent deflection of deck. Spread weight of materials on structures to avoid damage to existing structure. Use protective plywood as required. No material storage or construction traffic shall be allowed over new assembly unless properly protected to prevent damage and contamination on the finished roofing.
- C. Follow manufacturer's recommendations for environmental conditions and product storage. Bonding adhesives shall be stored at temperatures above 40°F. Materials shall be stored and maintained within manufacturer's published temperature ranges. Store all flammable materials in a cool, dry area, away from sparks and open flames. Follow precautions as recommended by manufacturer.
- D. Storage and disposal of hazardous materials shall comply with the requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

- A. Install DeckShield™ only when adequate application temperatures exist to maintain a satisfactory system application. Apply no adhesives to the substrate or membranes when deck surface temperatures are less than the recommended application temperature range stated on the product labels, or printed literature. Do not apply DeckShield™ membrane when water in any form is present on substrate surface, or when materials are damp or wet. Proceed with DeckShield™ installation only when existing and forecasted weather conditions will permit work to be performed in accordance with manufacturer's recommendations and warranty requirements.
- B. Membrane installation must be complete and watertight by the close of each day's work. Installer shall be responsible for maintaining worksite in a safe condition and compliance with applicable safety regulations.
- C. Avoid exposure of combustible materials to ignition source and follow all safety handling cautions, warnings and recommendations for safety handling materials. Material Safety Data Sheets shall be maintained at the jobsite, during transport and storage always.
- D. Bonding adhesives shall be stored at temperatures above 40°F. Precautions should be taken when using IB adhesives to minimize or prevent fume intake into interior occupied spaces. Air intake and porous substrates may require temporary protection during adjacent work to prevent potential disturbance to the building owner and occupants. It is the roofing contractor's responsibility to coordinate equipment to be turned off and on, with the owner, if necessary.

1.8 WARRANTY

- A. Contractor Warranty: Contractor shall warrant roofing assembly components, accessories, and associated work of this section against leaks or defective workmanship from date of substantial completion.
 - 1. Term of Warranty _____ years [two, five]
- B. Manufacturer's Limited Material Warranty: Submit executed copy of roofing manufacturer's (DeckShield™ Limited Material) warranty on materials from date of substantial completion.
 - 1. Term of Warranty: Ten (10) years

Part 2 PRODUCTS

2.0 MANUFACTURERS

- A. Acceptable Manufacturer: IB Roof Systems, 506 E. Dallas Rd, Suite 300, Grapevine, Texas 75051
Toll-free: 800-426-1626
Fax: 541-610-1726
Email: technical@ibroof.com
Website: www.ibroof.com
- B. Substitutions: Not permitted.
- C. Substitution Requests: Submit in accordance with Section 01 60 00.

2.1 SCOPE / APPLICATION

- A. Roof System: Provide a waterproof decking system manufactured and supplied or approved by the primary roofing materials manufacturer as specified in this section.
- B. Base Flashing: Provide waterproof base flashing assemblies and flashings at all penetrations, vertical walls, and terminations.

2.2 POLYVINYL CHLORIDE (PVC) MEMBRANE

- A. Decking Covering: Provide IB DeckShield™ Membrane is a dual ply embossed and printed vinyl sheet that is laminated to a non-woven polyester fleece backing. The PVC is a calendared film construction and meets the physical performance values of ASTM D4434, Type II.
 - 1. Membrane Type:
 - a. Fleece Back

2. Color: _____
 - a. Cobblestone
 - b. Pebblestone
 - c. Cedar Gove
 - d. Silver Maple
3. Membrane Thickness: 60 mil (nominal)
 - a. Breaking strength (ASTM D751): 200 MD / 200 CD lbf
 - b. Tearing strength (ASTM D751): PASS
 - c. Elongation at break (ASTM D751): PASS
 - d. Dimensional Change: (ASTM D1204): PASS
 - e. Accelerated Weathering: (ASTM G154): PASS
 - f. ADA Slip Resistance Index (dry): (ASTM F1679):
Wood Pattern: 0.73 Longitudinal 0° & 180°; 0.73 Transverse 90° & 270°
Stone Pattern: 0.77 Longitudinal 0° & 180°; 0.77 Transverse 90° & 270°
 - g. Field sheet width: 72 inches
 - h. Length: 75 feet

2.3 MEMBRANE FLASHINGS AND ACCESSORIES

- A. Membrane Flashings: Flashings and accessories shall be factory-manufactured or approved by IB Roof Systems coordinated with the specified membrane and finish color.
- B. Inside Corners: Dielectrically welded, factory-manufactured 60 mil reinforced inside corner flashing for non-canted 90° corners.
 1. IB Inside Corner
- C. Outside Corners: Dielectrically welded, factory-manufactured 60 mil reinforced outside corner flashing for non-canted 90° corners.
 1. IB Outside Corner
- D. Pipe and Conduit Flashings: Dielectrically welded, factory manufactured PVC flashing with reinforced membrane base and 60 mil PVC upper flashing used for pipe penetrations.
 1. IB PVC Single Ply Cone Flashing
 2. IB PVC Single Ply Split Cone Flashing
- E. PVC Clad Metal Scuppers: Factory-fabricated, custom sized through wall scupper manufactured from 24-gauge G90 galvanized, PVC clad metal with IB 0.060 reinforced membrane flashing.
 1. IB Custom Clad Metal Through-Wall Scupper
- F. Drains: Wood deck drain with grate, clamp collar, and drain body designed to receive and clamp in place over the PVC membrane.
 1. IB Wood Deck Drains

2.4 CLEANERS, PRIMERS, ADHESIVES AND SEALANTS

- A. Water-Based PVC Bonding Adhesive: Water-based membrane adhesive designed for one sided, fully adhered application of IB Roof Systems DeckShield™ membranes to approved horizontal substrates.
 1. IB Water Borne Adhesive
- B. Solvent-Based PVC Bonding Adhesive: Solvent-based membrane adhesive designed for two-sided, fully adhered contact adhesion of IB Roof Systems DeckShield™ membranes to approved vertical and horizontal substrates.
 1. ITW Miracle V206 Vinyl Decking Adhesive
- C. Solvent-Based PVC Flashing Adhesive: Solvent-based membrane adhesive designed for two-sided, fully adhered contact adhesion of IB Roof Systems DeckShield™ membranes to approved vertical substrates.
 1. IB Vertibond Adhesive
 2. ITW Miracle V206 Vinyl Decking Adhesive

- D. Water Cut-Off Mastic: Butyl-based one-component mastic used for temporary night seals and as a compression sealant between IB membrane and flashings to applicable substrates.
 - 1. IB Water Stop
- E. Polyurethane Caulk Sealant: One-part polyurethane sealant suitable for sealing upper lip of exposed termination bars and around upper edge of penetration clamping rings, meets or exceeds ASTM C920.
 - 1. Solar Seal #900 Terpolymer Rubber Adhesive / Sealant by NPC supplied by IB Roof Systems
- F. One-Part Pourable Penetration Sealant: One-part pourable sealant suitable for filling pitch pans at irregularly shaped penetrations.
 - 1. Chemlink 1-Part Pourable Penetration Sealant supplied by IB Roof Systems
- G. Polyether Sealant: Moisture curing, polyether adhesive sealant that is solvent free and contains no isocyanates. Used as a primer in conjunction with One-Part Pourable Penetration Sealant or as a structural sealant.
 - 1. Chemlink M-1® Structural Adhesive / Sealant supplied by IB Roof Systems

2.5 FASTENERS

- A. HD Fasteners: Heavy duty gauge alloy steel fastener with corrosion resistant e-coating and 0.242-inch diameter thread: Factory Mutual Standard 4470 approved #3 Phillips truss head for use on approved decks.
 - 1. IB HD #14 Roofing Fastener
- B. XHD Fasteners: Extra heavy duty gauge alloy steel fastener with corrosion resistant e-coating and 0.260-inch diameter thread: Factory Mutual Standard 4470 approved #3 Phillips truss head for use on approved decks.
 - 1. IB XHD #15 Roofing Fastener
- C. Concrete Fasteners: Hammer-in, non-threaded fastener designed to secure insulation and membrane to structural concrete. Alloy steel fastener with a corrosion resistant E-coating and 0.239-inch shank diameter.
 - 1. IB Dekspike Concrete Anchor supplied by IB Roof Systems
- D. Barbed Seam Plate: Galvalume, barbed fastening plate used with IB HD #14 Roofing Fastener, IB XHD #15 Roofing Fastener, and IB Dekspike Concrete Anchors for securement and termination of IB membranes at penetrations and perimeter walls or edges.
 - 1. IB 2-3/8" Barbed Seam Plate
 - 2. IB 2" Barbed Seam Plate

2.6 EDGINGS AND TERMINATIONS

- A. PVC Clad Metal Edge: 24-gauge G90 corrosion resistant galvanized steel laminated to 0.045 PVC non-reinforced cladding, formed into Drip Edge or Gravel Stop Metal termination, and supplied by IB Roof Systems.
 - 1. IB PVC Clad Drip Edge (3" deck flange, 10' lengths)
 - a. Face Size: _____
 - I. 2.5"
 - II. 4"
 - III. Custom: _____"
 - b. Color: _____
 - I. White
 - II. Bronze
 - III. Tan
 - IV. Gray
 - 2. IB PVC Clad Gravel Stop with 3/4" Raised Edge (3" deck flange, 10' lengths)
 - a. Face Size: _____
 - I. 2.5"
 - II. 4"
 - III. Custom: _____"

- b. Color: _____
 - I. White
 - II. Bronze
 - III. Tan
 - IV. Gray
- B. PVC Termination Bar: 24-gauge G90 corrosion resistant galvanized steel laminated to 0.045 PVC non-reinforced cladding formed into termination bar with angled lip caulk receiver and lower lip stiffener.
 - 1. IB PVC Clad Termination Bar (2" x 10' lengths)
 - a. Color: _____
 - I. White
 - II. Bronze
 - III. Tan
 - IV. Gray
- C. PVC Coated Metal: 24-gauge G90 corrosion resistant galvanized steel sheets laminated to 0.045 PVC non-reinforced cladding used in the fabrication of PVC flashings.
 - 1. IB PVC Clad Metal (4' x 10' sheets).
 - a. Color: _____
 - I. White
 - II. Bronze
 - III. Tan
 - IV. Gray
- D. Aluminum Termination Bar: Extruded aluminum bar with angled lip caulk receiver and lower leg bulb stiffener. Pre-punched holes at 6" o.c.
 - 1. IB Aluminum Termination Bar (1" x 10' lengths)

Part 3 EXECUTION

3.0 EXAMINATION

- A. Prior to roof installation, inspect substrates to ensure all penetrations, drainage outlets and flashings are in place and ready to receive DeckShield™ membrane.
- B. Deck and flashing substrates must be clean, dry, and properly secured. Existing substrates, flashings scheduled for re-use must be carefully inspected and properly prepared to ensure they are suitable for the new membrane system, free of defects, contaminants, or moisture.

3.1 PREPARATION

- A. Ensure substrates are smooth, clean, dry, and properly prepared in accordance with project requirements and IB specifications. Remove all debris, dirt, trash, or contaminants from surfaces prior to installation. Joints, knot holes, voids and cracks should be filled with compatible non-shrink grout filler or floor leveling compound and sanded smooth. Countersink fastener heads and fill in over heads to provide a smooth surface. Low areas, deflections in the substrate and deck imperfections should be corrected prior to application of above deck components.
- B. Proper deck and substrate preparation are the responsibility of the contractor or building owner. Review manufacturer recommended preparation requirements and methods for specific project conditions and materials.
- C. Equipment, penetrations and supports scheduled for demolition or renovation should be completed prior to the start of work.
- D. Confirm flashing details, terminations and penetrations have adequate height or clearance to receive roofing materials and comply with manufacturer requirements.
- E. Review decking and substrates for the presence of above or below deck conduit, equipment, fixtures, or structural elements that may interfere with DeckShield™ installation.

3.2 APPROVED SUBSTRATES

1. APA Rated Exterior Grade AC Tongue & Groove or Square Edge Plywood – nominal 3/4" recommended thickness.
- B. Poured Structural Concrete with Steel Trowel Finish – minimum 2,500 psi compressive strength.
- C. Substrate Thermal Barrier / Coverboards: IB Approved moisture resistant, glass-mat roof boards meeting ASTM C1177; gypsum-fiber roof boards meeting ASTM C1278; or cement roof boards meeting ASTM C1325. Refer to IB Technical Services and current IB Product Approvals and listings.

3.3 FULLY ADHERED MEMBRANE INSTALLATION

- A. Position DeckShield™ membrane over the prepared substrate. Measure and set courses as needed to align the membrane to the area and structure. Align membrane to provide a minimum 1" side lap and 1" end lap if applicable. Fold membrane sheet back lengthwise so the underside of the membrane is exposed and apply IB membrane adhesive at the specified coverage rate to required surfaces.
- B. Membrane Adhesive Application:
 1. IB WaterBorne Adhesive: Apply adhesive in a uniform, thin coating to horizontal substrates only at the approximate rate of one (1) gallon per 100-160 square feet. Install membrane into the adhesive with a soft bristle push broom. Follow all cold weather and applicable handling procedures and do not apply when temperatures are less than 40°F, or where temperatures may fall below 40°F before the adhesive can completely dry.
 2. ITW Miracle V206 Adhesive: Apply contact adhesive to both the underside of the membrane and the prepared substrate at the approximate rate of one (1) gallon per 60 square feet of net applied coverage. Adhesive may be used for installation to both horizontal and vertical substrates application. Allow the adhesive to dry until it is tacky but will not string or stick to a dry finger touch.
- C. Additional adhesive may be required to maintain proper adhesion over rough or porous surfaces. Masonry and absorbent surfaces may require a light prime coat of adhesive allowed to fully dry, prior to application of membrane materials and bonding adhesives.
- D. Carefully roll the membrane back into position into the applied adhesive avoiding wrinkles or air pockets and broom the membrane immediately with a soft bristle push broom or linoleum type roller to achieve maximum contact with substrate.
- E. Ensure all seam areas are clean and free of debris or contamination of laps with membrane adhesive. Use only IB recommended cleaning procedures and products where necessary to clean membrane prior to seaming. Clean and remove all contaminants immediately and re-inspect prior to final welding and completion of the seam.
- F. Continue with remaining courses lapping 1" on sides.
- G. For best finish appearance, cut and position membrane courses where possible to avoid or minimize in the field area of deck. Position field membrane rolls to provide a minimum 1" overlap at end laps where present. At end laps, it is necessary to pre-melt the fabric backing off the membrane prior to forming the overlap at the ends of the sheet. Mark 1" on underside of the top sheet. Fold membrane sheet back and melt the fabric backing using a low heat setting. Scrap or brush residue from the underside. Once a smooth back surface has been attained, the membrane is ready for heat fusing the two layers together to form a complete weld.
- H. Hot-air weld the IB DeckShield™ side and end laps using the Automatic Hot-Air Welding Machine or Hot-Air Hand Welder in accordance with the manufacturer's hot air welding procedures.
- I. Hand welded seams and laps shall be rolled with a silicone roller during welding to ensure a continuous welded seam.
- I. All seams and laps shall be visually inspected and physically probed after they have set and cooled. Probe all seams to locate cold welds or voids. Repair all seam deficiencies the same day they are discovered.
- J. Continue to install adjoining membrane sheets in the same manner.

3.4 SEAM WELDING

- A. Minimum recommended weld widths for completed seams is 1" for side laps and 1" for end laps. Seams, laps and flashings completed with a hot air hand welder shall maintain a minimum 1" weld width. Hand

welded seams and laps shall be rolled with a silicone roller during welding to ensure a continuous welded seam.

- B. Regular test welds shall be conducted during all hot air welding operations to verify attainment of watertight, properly welded membrane laps and seams, and to adjust welding parameters and settings as required.
- C. All seams and laps shall be visually inspected and physically probed after they have set and cooled. Probe all seams to locate cold welds or presence of voids.
- D. Repair all seam deficiencies the same day they are discovered.

3.5 FLASHING

- A. Flashing of curbs, parapets, posts, and other penetrations of the roof must be performed using approved IB PVC Single Ply smooth reinforced membrane and IB factory-manufactured accessories.
- B. Flashing Adhesive Application:
 - 1. IB Vertibond Adhesive: Apply contact adhesive to both the underside of the membrane and the prepared substrate at the approximate rate of one (1) gallon per 60 square feet of net applied coverage. Adhesive may be used for installation to both horizontal and vertical substrates application. Allow the adhesive to dry until it is tacky but will not string or stick to a dry finger touch.
 - 2. ITW Miracle V206 Adhesive: Apply contact adhesive to both the underside of the membrane and the prepared substrate at the approximate rate of one (1) gallon per 60 square feet of net applied coverage. Adhesive may be used for installation to both horizontal and vertical substrates application.
- C. Follow IB DeckShield™ Flashing Details and procedures for all wall, curb, termination, and penetration flashings including metal edging/coping and drainage outlets using IB manufactured and supplied accessories.

1.1 CLEAN UP AND PROTECTION

- A. During installation, keep all work surfaces clean and free of dirt and debris. Remove excess materials, trash, cartons, loose fasteners, tools, and debris from the deck daily. Dispose of waste material, packaging, and debris in accordance with project requirements and applicable regulatory requirements.
- B. Avoid contamination of finished membrane surfaces. Install protective materials and tarps as necessary to protect completed roof areas from damage.

END OF SECTION