

Protect-All Commercial Flooring Specification – 09 65 00

Heavy Duty Commercial Flooring Specifications

1. GENERAL

1.1 SUMMARY

A. Provide and install commercial resilient vinyl flooring per manufacturer's installation requirements and recommendations.

1.2 SUBMITTALS

A. **Product Data:** Submit manufacturer's product data and installation instructions for watertight application.

B. **Samples:** Submit representative sample of each material specified indicating visual characteristics and finish.

1.3 QUALITY ASSURANCE

A. Contractor will assure compliance with *2.3 Job Conditions* to allow for proper installation.

B. Comply with local governing codes and regulations.

C. Use Protect-All factory trained installers provided by local distributor.

D. Manufacturer provides a limited product warranty against manufacturing defects. Warranty does not in any way cover installation-related issues.

2. PRODUCTS

2.1 NO SUBSTITUTIONS PERMITTED

2.2 PRE-APPROVED PRODUCTS

A. Protect-All Flooring as manufactured by Oscoda Plastics®

1. Protect-All sheets in 5' x 8', 5' x 5' in ¼" thickness with color chosen from manufacturer's samples in matte finish.
2. Protect-All 2-part flooring adhesives.
3. Protect-All cove base system — stacked or flash cove base with a minimum height of 6".

- 3a. Use Protect-All Rapid Weld™ for the radius on the stacked cove base system.
4. Protect-All Rapid Weld for floor seams.
5. Protect-All aluminum, stainless steel or vinyl cove base cap (Z-bar).
6. Protect-All stainless-steel drain rings, corner guards and transition strips as provided by Oscoda Plastics.
 - 6a. Protect-All stainless-steel fasteners and anchors for drain rings, corner guards and transition strips
7. E6100® sealant.
8. Other installation materials as required and supplied by Protect-All.

2.3 INSTALLATION VERIFICATIONS

- A. Manufacturer installation instructions for watertight applications along with required accessories, located at protect-allflooring.com.
- B. For a list of acceptable installers contact Protect-All Flooring representative.
- C. Provide representative samples of product depicting color and finished surface of installed flooring material. Include range samples if variation of finish is anticipated.
- D. Provide a mock-up showing cove base, corner and drain details with welding example.
- E. Provide documentation attesting to the successful use of product in wet areas.
- F. Provide copy of manufacturer's product warranty.

2.4 VERIFICATION OF JOB CONDITIONS

- A. Proper substrate
 1. Assure that the substrate material is suitable for installation of flooring as indicated by manufacturer. Approved substrates include: marine-grade or underlayment grade plywood, cement board and concrete (non-gypsum based only), properly cleaned and prepared per manufacturer's guidelines.
 - 1a. Protect-All does not suggest being installed over any existing finish, such as quarry tile, any paint or any type of tile.

- 1b. Protect-All must not be installed in an “operating environment,” meaning an environment that is not prepared to close entirely for the duration of the installation.
2. Concrete substrates must be dry and free of curing compounds, sealers, hardeners and other materials whose presence would interfere with bonding of adhesive. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by floor covering manufacturer.
3. Verify a clean, dry and structurally sound surface to accept adhesive, free of cracks, ridges, depression, scales and foreign deposits of any kind.
4. Use only cementitious patching and filling compounds (3500 PSI). Consult manufacturer for details.
5. Assure that the levelness (FL 15), and flatness (FF20 5/16 in 10 Ft.) of surface is in compliance with manufacturer’s guidelines.
6. Verify that sub-floor surfaces (concrete, marine-grade, underlayment grade plywood or cement board) are ready for resilient flooring installation by testing moisture emission rate and alkalinity, in accordance with ASTM F 710; obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer. Reference ASTM F 710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
7. The following standards apply:
 - ASTM E 1745-97 – Standard Specification for Water Vapor Retarders
 - ASTM E 1643 – Standard Practice for Installation of Water Vapor Retarders used in contact with Earth or Granular Fill Under Concrete Slabs
 - ASTM E 96-00 – Standard Test Method for Water Vapor Transmission of Materials
 - ACI 302.1R-04 – Guide for Floor and Concrete Slab Construction
 - ACI 302.2R-06 – Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials
 - ASTM F710-08 – Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
 - ASTM F 1869 – Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

B. For wood sub-floors verify the following:

1. Underlayment over sub-floor complies with requirements specified in Division 6 "Rough Carpentry".
2. Underlayment surface is free of surface irregularities and substances that have potential to interfere with adhesive bond, show through surface or stain floor coverings. Reference ASTM F1482 Standard Practice for Installing and Preparation of Panel Type Underlayment to Receive Resilient Flooring.

C. Environmental Conditions

1. The contractor and installer of product are responsible for providing and maintaining a proper installation environment.
2. Installation area must be enclosed and watertight with all walls, wall finishes, doors and floor penetrations in place.
3. Proper temperature acclimation of flooring material is required prior to installation at a minimum of 24 hours.
4. Assure confinement of space during installation and curing of adhesives to prevent other trades from damaging the product or compromising the adhesion.
5. Maintain a constant temperature during the installation and throughout the curing of adhesives.
6. Provide a secure area to store materials for installation.
7. Building must be completely enclosed and watertight. HVAC system must be on at least 7 days prior to installation beginning, keeping the interior temperature at 70°. This temperature should be maintained during the installation and an additional 8 days after completion.
 - 7a. Protect-All cannot have any heavy foot, or rolling load traffic until flooring adhesive has fully cured, 7-8 days.

D. Proper Drain and Other Floor Penetration Elevations.

1. All drains to be installed level and 3/16" above the surface of the substrate with a proper slope of 1/8" – 1/4" per foot.
2. When sloping to the drain area is specified, the slope should not be less than 36" in diameter and more than 3/8" in depth.
3. All other penetrations should be installed 3/16" above the substrate.

3. EXECUTION

3.1 INSTALLATION

- A. Follow manufacturer recommendations for laying sheets out.
- B. Flooring must be cut tight to all penetrations.
- C. Adhere the floor material using manufacturer's recommended adhesive for the particular substrate type, job conditions, and in compliance with spread rate and proper trowel size.
- D. Roll floor into adhesive with 100 lb. roller immediately and a second time one hour later, as per manufacturer directions.
- E. Install stainless steel drain rings around all drains and other surface penetrations. Drain rings are to be routed into the floor surface and mounted flush with the top of the flooring. Secure drain rings using Stainless Steel fasteners and anchors to provide a mechanical bond to the substrate.
- F. Install cove base as recommended by manufacturer with proper adhesive and top sealant. Protect-All Rapid Weld all seams.
- G. Install cove base fasteners a minimum of 8" on-center using stainless steel fasteners.
- H. Protect-All Rapid Weld all field material seams using manufacturer's welding material, proper tools and installation methods.
- I. Stainless steel transitions as provided by the manufacturer must be used in doorways and transition areas. Use stainless steel fasteners and anchors to secure.
- J. All exposed edges are to be sealed with manufacturer's E6100 sealant.



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3.2 CLEANING

A. Refer to the manufacturer's cleaning recommendations located at protect-allflooring.com.

4. CONTACT INFORMATION



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