



SECTION 01 15 20 RECYCLED POLYVINYL SAFETY FLOORING INSTALLATIONS

1. GENERAL

1.1 SUMMARY

- A. This section includes furnishing all materials, labor, equipment, and related services necessary to supply and install recycled Polyvinyl safety flooring (Eco-Grip®) as indicated in the contract documents, and in compliance with applicable codes.

1.2 RELATED SECTIONS

- A. Division 03 Section "Cast in Place Concrete" for general building applications of concrete.
- B. Division 22 Section "Plumbing" for drain, floor sink floor troughs, cleanouts, and plumbing penetration conditions.

1.3 INFORMATIONAL SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for commercial kitchen applications.
- B. Samples: Submit 3 Eco-Grip® samples in the color SELECTED on the finish drawings.
- C. Certification: Submit evidence of contractor qualifications as outlined under 1.5
- D. Quality Assurance. Provide letter from the manufacturer attesting to Approved Installer status.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: Provide detailed Eco-Grip® maintenance instructions.
- B. Warranties: Provide manufacturer and installation warranties as noted under Section 1.5 Quality Assurance.

1.5 QUALITY ASSURANCE

- A. Contractor will assure compliance with 1.6 Project Conditions to allow or proper installation.
- B. Comply with local governing codes and regulations.
- C. Use Eco-Grip® factory-trained installers Approved Installers.
- D. Manufacturer must provide a limited 10-year product warranty against manufacturing defects, with end-user's continual use of Eco-Grip® Commercial Floor Cleaner.
- E. Eco-Grip® Approved Installer must provide a 1-year installation defect warranty.

1.6 PROJECT CONDITIONS

- A. Assure that substrate material is suitable for installation of flooring as indicated by manufacturer. Approved substrates include: Portland-based concrete, gypsum-based concrete (installation will require a unique adhesive), marine-grade or underlayment grade plywood, cement board as reviewed and approved by manufacturer, provided all substrates are properly cleaned and prepared per manufacturer guidelines.
 - 1. Eco-Grip® can be installed over existing finishes such as quarry tile or epoxy,

provided all finishes are properly prepared for installation. Glue down products and mastic must be removed.

2. Eco-Grip® can be installed in “operating environments”, defined as a facility that operates a relatively normal daily schedule, but closes for at least 8 hours during a 24-hour period to allow for installation, for the duration of installation.
- B. Comply with manufacturer’s written instructions for substrate temperature and humidity, ambient temperature, ventilation, and other conditions affecting the installation of Eco-Grip®.
- C. Environmental Limitations: Do not install Eco-Grip® flooring until building is enclosed and weatherproof, concrete work is complete and cured, and the HVAC system or temporary heating maintains a minimum temperature of 55-degrees F and humidity is at normal occupancy levels.
- D. Acclimate Eco-Grip® flooring materials to the ambient temperature and humidity levels of the installation spaces for a minimum of 24 hours.
- E. Verify that concrete substrate conditions provide for slope to drains allowing water flow to drainage points without assistance. ¼” per 1-foot average slope for a 4’ radius from drain center is required.
- F. Verify that floor drains, clean-outs, trench drains, grease traps, and floor sinks are set level, and ¼” above substrate, to facilitate drainage to those penetrations once the ¼” (6.5mm) thick Eco-Grip® floor is installed. Floor sinks may be set higher than ¼”, per local code.
- G. Slab substrates must be dry and free of curing compounds, hardeners, sealers and other foreign materials that would interfere with bonding of adhesive.
- H. Verify the substrate is clean, dry, and structurally sound to accept adhesive, and is free of cracks, ridges, depressions, scales, and foreign deposits of any kind.
- I. Verify that substrate is ready for resilient flooring installation by testing moisture emission rate and alkalinity, in accordance with ASTM F710; obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive manufacturer.
 1. Reference ASTM F710 – Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
 2. Moisture reading must register no more than 98% RH on the Wagner Relative Humidity Scale.
 3. Refer to Eco-Grip® New Construction Checklist for additional Guidance.
- J. Do not begin installation of Eco-Grip® flooring until all Project Conditions have been met.

2. PRODUCTS

2.1 NO SUBSTITUTIONS PERMITTED

2.2 APPROVED PRODUCTS

- A. Eco-Grip® slip resistant safety flooring as manufactured by Allied Industries International, Inc.
 1. Eco-Grip® Commercial Flooring. Sheets are 8’x5’ in ¼” (6.5mm) thickness with color chosen by architect as noted on plans.
 2. Eco-Grip® 2-Part Epoxy Flooring Adhesive
 3. Eco-Grip® SpeedFlex Liquid Weld System (or V-Rod, welding rod)
 4. Eco-Grip® Polyvinyl Cove Base Cap (high-impact polyvinyl), stainless steel base cap, aluminum base cap.
 5. 16-gauge stainless steel drain flanges and transition strips, and #10 stainless screws and lead anchors, as required.
 6. Eco-Grip® sealants.

7. Other installation materials as required and supplied by Allied Industries International, Inc.
 8. No substitutions permitted.
- B. Eco-Grip® slip-resistant safety flooring must meet the following test standards:
1. ASTM G21: Excellent Bacteria & Mildew Resistance
 2. ASTM D412 Tensile Strength: 1694 psi Elongation 130.98%
 3. ASTM D624 Tear Strength: 268 lbs./force/inch Elongation 7.33%
 4. ASTM F970 2000 psi .023 Avg 1500 psi = .014
 5. ANSI B101.3 SCOF = .62 DCOF = .43
 6. ANSI B101.3 DCOF TRL rubber = .72
 7. ASHB 198:2014 SSR Wet = 65
 8. ASTM E662 Smoke Density: DMC 141
 9. Fire Test: NFPA Type I Rated
 10. ASTM D2240 Hardness: 85
 11. Thickness: 6.5mm / 4mm
 12. Weight (oz. sq. ft.): 25.16 / 16
 13. Oxygen Index: 29.0

3. **EXECUTION**

3.1 **INSTALLATION**

- A. Refer to manufacturer's Installation Manual, Detail Drawings, and Installation Training Video for all installation techniques. Installation should always be conducted by factory-trained Approved Installers.
- B. Follow manufacturer recommendations for laying out sheets. All flooring sheets and welded joints must be offset by 1/3 of sheet length in a staggered design.
- C. The majority of all base must be installed integral to the flooring sheet, with minimal usage of flat base.
- D. Flooring must be cut tight to all penetrations.
- E. Adhere the flooring sheets to substrate with Eco-Grip® 2-part Epoxy using the manufacturer's recommended trowel notch size (3/32). A unique 1-part adhesive is available for gypsum-based substrate applications.
- F. Use 100lb. roller to press floor into 2-part epoxy immediately following application of 2-part epoxy.
- G. Eco-Grip® E-6100 adhesive/sealant should be used to seal top edge of base under base cap, per Base Cap Detail Drawings, and under all stainless details per Detail Drawings.
- H. Route out v-grooves between sheets with a 6mm groover blade for SpeedFlex application, and weld all seams using Eco-Grip® SpeedFlex Liquid Weld System or Eco-Grip® 7mm v-Rod.
- I. Stainless steel drain flanges are to be routed into floor surface and mounted flush with the top of flooring. Secure flanges using stainless steel fasteners, lead anchors, and sealant, anchoring the flange to the substrate.
- J. Install 16-gauge stainless steel transitions at all doorways and floor transition areas, using stainless steel fasteners, lead anchors, and sealant.
- K. Seal all exposed edges of flooring and penetrations with SpeedFlex Liquid Weld System to ensure a watertight seal.
- L. Refer to Detail Drawings dated 1/02/20 for additional information.
- M. GC to protect finished floor.

3.2 CLEANING

- A. Sweep the floor after installation and clear area of scrap materials.
- B. Refer to manufacturer's cleaning manual and demonstration video for proper cleaning technique.
- C. Installer must provide two copies of manufacturer's cleaning recommendations for contractor and owner use.
- D. Installer must provide cleaning kit (1-gallon Eco-Grip® Commercial Floor Cleaner, 1 foam gun, 1 deck brush, 1 squeegee, 1 cleaning instruction poster) with installation.

End of Section 01 15 20



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