**Altro Promenade**

**Slip-Resistant Sheet Vinyl for Outdoor Spaces**

**SECTION 09 65 16.23**

**RESILIENT SHEET FLOORING**

**(Slip-Resistant Sheet Vinyl Safety Flooring)**

**PART 1 GENERAL**

* 1. SUMMARY

.1 Section Includes: This section includes labour, materials and other services necessary to complete resilient sheet flooring, safety and slip resistant sheet vinyl flooring systems and accessories work. Conform with requirements of all Sections of Division 1, General Requirements, as it applies to the work of this Section.

.2 Related Sections:

1. Section 03300 - Cast-in-Place Concrete: Concrete finishing.
2. Section 06100 - Rough Carpentry: Plywood floor sheathing.
3. Division 7 - Thermal and Moisture Protection
4. Division 15 - Mechanical.
	1. REFERENCES
5. **CCMC** - Technical Guide for PVC Sheet Waterproofing (Exposed to Light Pedestrian Traffic).
	1. SUBMITTALS
6. Product Data: Submit manufacturer’s current printed product literature, specifications, installation instructions, and field reports in accordance with Section 01330 - Submittal Procedures.
7. Shop Drawings: Submit shop drawings to indicate materials, details, and accessories in accordance with Section 01330 - Submittal Procedures including but not limited to the following:
8. Submit a cut diagram indicating seam locations and roll direction.

.3 Samples: Submit duplicate 12” x 12” (152 mm x 228 mm) sample pieces of sheet material, in accordance with Section 01330 - Submittal Procedures.

.4 Closeout Submittals: Submit the following:

1. Operation and Maintenance Data: Submit manufacturer’s operation and maintenance data for incorporation into manual specified in accordance with Section 01780 – Closeout Submittals. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
	1. QUALITY ASSURANCE
2. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
	1. Training: Installer who has attended an Altro flooring Wet Environments installation training clinic, or who has successfully installed similar product in a similar environment.
3. Regulatory Requirements: Provide safety flooring in compliance with the following:
	1. Americans with Disabilities Act Architectural Guidelines (ADAAG)
	2. Occupational Safety and Health Administration (OSHA)

1. Mock-ups: Install at project site a job mock-up using acceptable products and manufacturer approved installation methods, including concrete substrate testing.
	1. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
	2. Incorporation: Mock-up may be incorporated into final construction upon Owner’s approval.
2. Pre-installation Meeting: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer’s installation instructions, manufacturer’s warranty requirements, and installer qualifications.
3. Bond Test: Install multiple bond tests using 3’ x 3’ pieces of material adhered with the appropriate adhesive to verify quality of adhesion. Document results.
	1. SITE CONDITIONS
4. Temperature Requirements: Keep materials at temperature between 20C (68F) and 26.6C (80F). For further information, refer to current Altro Promenade installation guide.
5. Maintain environmental conditions (temperature, humidity and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside of manufacturer’s recommended limits.
	1. DELIVERY, STORAGE AND HANDLING
6. Ordering: Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays.
7. Deliver, store and handle resilient flooring materials in accordance with Section 01610 - Basic Material Requirements.
8. Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.
9. Store materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer.
10. Store rolls in dry locations. Stand rolls on end. Protect and secure rolls from falling.
	1. WASTE MANAGEMENT AND DISPOSAL

.1 Deposit all packaging materials in appropriate container on site for recycling or reuse.

.2 Avoid using landfill waste disposal procedures when recycling facilities are available.

.3 Keep all discarded packaging away from children.

* 1. WARRANTY
1. Warranty period for Altro Promenade shall be 10 years commencing on date of substantial completion. Refer to conditions of the contract for project warranty provisions.
	1. MATERIALS

 .1 Altro Promenade uses polyester reinforced PVC membrane with ultra-violet resistance, for fully-adhered installation with heat-welded seams and perimeter attachment.

**PART 2 PRODUCTS**

* 1. SAFETY FLOORING

 **.1 Slip Resistant Sheet Vinyl Manufacturer**: Promenade by Altro.

 .1 CANADA: 6221 Kennedy Rd, Unit 1, Mississauga ON, L5T 2S8

 Toll Free: 800.565.4658, Tel: 905.564.1330; Fax: 905.564.0750

1. **Acceptable Material: Altro Promenade, m**easurements and product weights given below are approximate. Slip Resistant Tested to meet ADA requirements: ASTM F1303 – Type II, Wear-layer 0.7mm (ISO24340),

 **COLOURS**

1. **P401 Kitts:** Thickness: 0.098” (2.5 mm); Roll Width: 5'11" (1820 mm); Roll Length 32’9” (10 m); Roll Weight: 120 lb (100 kg);

2. **P402 Nevis:** Thickness: 0.098” (2.5 mm); Roll Width: 5'11" (1820 mm); Roll Length 32’9” (10 m); Roll Weight: 120 lb (100 kg);

3. **P404 Antigua:** Thickness: 0.098” (2.5 mm); Roll Width: 5'11" (1820 mm); Roll Length 32’9” (10 m); Roll Weight: 120 lb (100 kg);

4. **P603 Tobago:**Thickness: 0.098” (2.5 mm); Roll Width: 5'11" (1820 mm); Roll Length 32’9” (10 m); Roll Weight: 120 lb (100 kg);

5. **P640 Barbuda:** Thickness: 0.098” (2.5 mm); Roll Width: 5'11" (1820 mm); Roll Length 32’9” (10 m); Roll Weight: 120 lb (100 kg);

6. **P642 Grenada:** Thickness: 0.098” (2.5 mm); Roll Width: 5'11" (1820 mm); Roll Length 32’9” (10 m); Roll Weight: 120 lb (100 kg);

7. **P643 Turks:** Thickness: 0.098” (2.5 mm); Roll Width: 5'11" (1820 mm); Roll Length 32’9” (10 m); Roll Weight: 120 lb (100 kg);

8. **P801 Martinique:** Thickness: 0.098” (2.5 mm); Roll Width: 5'11" (1820 mm); Roll Length 32’9” (10 m); Roll Weight: 120 lb (100 kg);

9. **P802 Curacao:** Thickness: 0.098” (2.5 mm); Roll Width: 5'11" (1820 mm); Roll Length 32’9” (10 m); Roll Weight: 120 lb (100 kg);

10. **P807 Trinidad:** Thickness: 0.098” (2.5 mm); Roll Width: 5'11" (1820 mm); Roll Length 32’9” (10 m); Roll Weight: 120 lb (100 kg);

2.2 ACCESSORIES

 Including but not limited to:

1. PVC Coated Metal, Floor drain/Scuppers, Overflow Drains and Trims as required for proper installation.
2. Surface Conditioners, Altrofix 30 2-part adhesive, Sealants, Fillers and Cleaners as required for proper installation
3. Fastening products to be colour coordinated to material.

**PART 3 EXECUTION**

* 1. EXAMINATION

.1 Compliance: Comply with manufacturer’s product data, including product technical bulletins and product catalogue. Installation instructions found at [www.altrofloors.com](http://www.altrofloors.com).

.2 Do not begin installation until substrates have been properly prepared.

.3 Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer’s instructions. If unsatisfactory, notify Client/Architect/End-user of unsatisfactory substrate preparation before proceeding.

 .1 Verify that deck or substrate is:

1. Secure, well supported, solid, and in accordance with local code structural requirements
2. Properly sloped to drains, valleys or eaves
3. Clean and smooth, free of depressions, waves and projections
4. Dry and free of dust, ice, and snow

3.2 PREPARATION

1. Clean surfaces thoroughly prior to installation. Remove substances that are incompatible with adhesives or contain soap, wax, oil, solvents, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
2. Coordinate timing of installation to avoid construction traffic over installed membrane surfaces. Protect installed areas with non-staining/damaging coverings.
3. Wood Deck: Fill joints, knotholes, voids, and low areas with filler and sand smooth.
4. Wood Deck: Cover with cementitious board meeting requirements of Class A approved application. Fill joints, knotholes, voids, and low areas with filler and sand smooth.
5. Concrete Deck: Fill surface imperfections and variations with leveling compound. Test for and remove surface contaminants.
6. Coordinate installation with installation of drains and similar accessories.
7. Install flashings and accessories. Seal around all penetrations, drains and edges.
8. Altro Promenade shall not come in contact with bituminous materials or polystyrene insulations. Contact Altro for additional information.
9. Prepare surfaces using the methods recommended by Altro for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

1. Install in accordance with Altro’s written instructions and applicable codes.
2. For installation acclimate all materials (substrates, flooring, adhesives, accessories, etcetera) to the ambient conditions of the installation area, a temperature range of 20C (68F) and above 26.6C (80F) is acceptable. The area must be dry and have been detailed per previous instructions. In certain high sunlight areas a canopy may be required to provide shade while gluing the deck material in place. Do not install when there is precipitation or high winds over 30 mph (48.3 kph).
3. Do not dilute primers, adhesives, coatings or sealants.
4. Install Altro Promenade with minimum number of seams possible. Heat-weld all seams.
5. Adhere Altro Promenade to substrate.
6. Mechanically fasten all perimeter edges and penetrations.

3.4 CLEANING

**Specifier Note: Altro slip-resistant flooring is unaffected by surface water and most chemicals which do not have a solvent action on vinyl. Certain organic solvents and chemicals, including asphalt, can cause staining, as might some antioxidants found in certain types of rubber used in mats, wheels and tires. Acids and dyes may affect the colour, which should be selected accordingly. Contact Altro for information about the effect of chemicals on Altro flooring.**

1. Sweep or vacuum all construction debris and dust. Clean soiled areas in accordance with Altro’s recommendations prior to Owner’s acceptance.

.2 Touch-up, repair or replace damaged installed product before Substantial Completion.

3.5 PROTECTION

1. Protect installed products until completion of project using a non-staining, temporary floor protection system such as a reusable textured plastic sheeting, without taping to the surface of the flooring.
2. Avoid construction traffic over installed Altro Promenade.
3. No traffic for 24 hours after installation, unless approved by Altro technical.
4. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation. Wait 72 hours after installation before performing initial cleaning.

END OF SECTION