**ALTRO DOLCE TILE**

**Homogenous Vinyl Tile**

SECTION 09657

**PART 1 GENERAL**

1.1 SUMMARY

1. Section Includes: This section includes labor, materials and other services necessary to complete Dolce Essentials vinyl tile flooring system and accessories work. Conform with requirements of all Sections of Division 1, General Requirements, as it applies to the work of this Section, including but not limited to the following:
2. Coordination of start date and timeframe.
3. Coordination of substrate preparation.
4. Coordination of moisture and pH testing.
5. Coordination with moisture mitigation if required.
6. Coordination of proper plumbing fixtures for connections with flooring.
7. Floor installation and heat welding of all seams, horizontal and vertical.
8. 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.

1.2 REFERENCES

1. **ASTM D 2047**, Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.
2. **ASTM E 648/NFPA 253**, Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
3. **ASTM E662**, Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
4. **ASTM F710**, Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
5. **ASTM F 970**, Standard Test Method for Static Load Limit.
6. **ASTM F1482**, Standard Guide to Wood Underlayment Products Available for Use Under Resilient Flooring.
7. **ASTM F1303**, Standard Specification for Sheet Vinyl Floor Covering with Backing.
8. **ASTM F2170**, Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
9. **(RFCI)** Resilient Floor Covering Institute
10. RFCI Standard Slab Moisture Test Method (Calcium Chloride Method) as a supplementary test method to ASTM F2170.
11. **Underwriters Laboratories of Canada (ULC)**
12. CAN/ULC-S102.2, Surface Burning Characteristics of Flooring, Floor Covering and Miscellaneous Materials and Assemblies
13. **American Concrete Institute**
14. ACI 302.1R
15. ACI 302.2R

1.3 SUBMITTALS

1. Product Data: Submit manufacturer’s current printed product literature, specifications, installation instructions, and field reports in accordance with Section 01330 - Submittal Procedures.
2. Shop Drawings: Submit shop drawings to indicate materials, details, and accessories in accordance with Section 01330 - Submittal Procedures including but limited to the following:
3. Submit a cut diagram indicating seam locations and roll direction. Use mitered seam layouts for corners when changing directions 180 degrees (e.g. when running material down corridors which bisect at a right angle), unless approved otherwise.
4. Samples: Submit duplicate 18" x 18" (457.2 mm x 457.2 mm) sample pieces of sheet material, 6" (152 mm) long [gulley edge] [cap strip] [joint cover strip] [cove former] in accordance with Section 01330 - Submittal Procedures.
5. Closeout Submittals: Submit the following:
6. 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.

1.4 QUALITY ASSURANCE

1. 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 installation training clinic or who has successfully installed Altro Dolce homogenous vinyl tile in three previous installations.
	2. Awarded flooring contractor must use in-house installers.
	3. Awarded flooring contractor must be able to provide recent Altro references with contacts.
2. 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.
3. Pre-installation Meeting: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer’s installation instructions, manufacturer’s warranty requirements, and installer qualifications.
4. Bond Test: Install multiple bond tests using 2’ x 2’ pieces of material adhered with the appropriate adhesive to verify quality of adhesion. Remove half of each piece after 24 hours, then the other half after 48 hours. To help assess resistance to indentation, place end user equipment onto a sample for 72 hours. Document all results.

1.5 SITE CONDITIONS

1. Temperature Requirements: If storage temperature is below 65F (18C) or the floor temperature is below 50F (18C), the Altro Dolce Tile must be moved to a warmer place and allowed to reach this temperature before installation. For further information, refer to current Altro Installation Practices and Quick Facts.
2. Maintain air temperature and structural base temperature at flooring installation area between 68F (20C) and 80F (26C) for 48 hours before, during and 24 hours after installation.

1.6 DELIVERY, STORAGE AND HANDLING

1. Ordering: Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays.
2. Deliver, store and handle resilient flooring materials in accordance with Section 01610 - Basic Material Requirements.
3. Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.
4. Store materials protected from exposure to harmful weather conditions, at temperature and humidity conditions recommended by manufacturer.
5. Store material in dry locations. Protect and secure material from falling and damage.

1.7 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.

1.8 WARRANTY

1. Warranty period for Altro Dolce Tile shall be 10 years commencing on date of substantial completion.

**PART 2 PRODUCTS**

2.1 HOMOGENOUS VINYL TILE

Altro Dolce Tile is a homogeneous combination of high quality vinyl, calcium carbonate, and fine and naturally weathered Dolce. Altro Dolce Tile meets the requirements of ASTM F1066, Class l, Type A

1. Dolce Vinyl Tile Manufacturer: Dolce Tile 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

.2 **Acceptable material** Acceptable material: Altro Dolce Tile (measurements and product weights are approximate): Thickness: 0.12" (3 mm); Width: 18" (45.7 cm) x 24” (45.7 cm) Weight: 44.35 lbs (20.12kg) per box

Colour to be selected from current range found at [www.altrofloors.com](http://www.altrofloors.com)

**COLOUR**

1. **D (Insert colour code) (Insert colour name)**

2.2 ACCESSORIES

 Including but not limited to:

1. **Subfloor Filler and Leveler**: Use only gray Portland cement-based “moisture tolerant” underlayments, and patching compounds. Use for filling cracks, holes or leveling. White gypsum materials are not acceptable.
2. **Adhesives**
	1. Ecofix 25 – 1-part acrylic adhesive free of moisture/temperature fluctuations
	2. Ecofix 20 – 1-part acrylic adhesive free of moisture for heavy rolling loads.

**PART 3 EXECUTION**

3.1 EXAMINATION

* + - 1. Compliance: Comply with manufacturer’s product data, including product technical bulletins, product catalog, installation instructions found at [www.altrofloors.com](http://www.altrofloors.com).
			2. 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.

3.2 PREPARATION

1. Remove substrate paint, coatings and other 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. Permanent and non-permanent markers, pens, crayons, and paint shall not be used to write on the back of the flooring material or used to mark the substrate as they could bleed through and stain the flooring material.
3. Flooring shall be installed over subfloors conforming to ASTM F710 for concrete and other monolithic floors or ASTM F1482 for wood subfloors.
4. Always conduct moisture tests per ASTM F-2170 on all concrete slabs regardless of age or grade level. ASTM F-2170 Internal Relative Humidity (IRH) test results must not exceed 90%. Alkalinity Testing per ASTM F710 with an acceptable range of 7-9.9 pH.
5. Do not proceed with work until results of moisture condition tests are acceptable.
6. When patching, a ***moisture tolerant*** patching compound must always be used.
7. Contingency for High Moisture Readings in Concrete:
	1. If at the time of installation the moisture readings are in excess of Altro’s recommendations, the General Contractor shall employ a means of Moisture Mitigation. This includes, but is not limited to, the following methods:
8. Application of a Moisture Reduction Barrier (MRB)
9. Temporary use of dehumidification equipment.

.3 Postponing of the flooring installation start time.

.4 A budget should be provided to the general contractor for use of an MRB

1. Wood Subfloors: Confirm wood subfloors meet the following requirements.

Must conform to ASTM F-1482 Standard Guide to Wood Substrates.

Wood subfloors shall have a minimum 18 inch (45.7 cm) of cross-ventilated space beneath the bottom of the joist. The floor must be rigid, free of movement.

Single wood and tongue and groove subfloors shall be covered with a minimum 1/4 inch (6.4 mm), 3/8 inch (9mm) or 1/2 inch (12.7 mm) APA approved underlayment plywood as follows.

Use 1/4 inch (6.4 mm) thick underlayment panels for boards with a face width of 3 inches (76 mm) or less.

Use 1/2 inch (12.7 mm) thick underlayment panels for boards with a face width wider than 3 inches (76 mm).

Do not install directly on OSB (Oriented Strand Board), particleboard, chipboard, luan or composite type panels unless specifically designed and approved by the panel manufacturer for use as a resilient flooring underlayment.

3.3 INSTALLATION

1. Installation: Altro Dolce Tile Installation: Install Altro Dolce Tile in accordance with the current posted Altro Installation Practices and Quick Facts Guide at [www.altrofloors.com](http://www.altrofloors.com) Downloads, Technical Documents, Installation Guides. Failure to install Altro Dolce Tile in accordance with recommended procedures will void the Altro Limited Product Warranty.
2. Drains: Fit Altro flooring and mechanically fasten to drain outlets to ensure a permanent, watertight installation. The installation of Altro flooring in a wet environment is a system installation. All circular drain covers must be modified in the field or specified by the architect to be Surface-Membrane Clamping Style Drains and installed per the instructions in the Altro Flooring installation guide. The Gulley Edge/Angle, AltroMastic, Cove Former, and Cap Strip Accessories are necessary accessories for a water-tight and manufacturer-compliant installation.

3.4 CLEANING

**Specifier Note: Altro Dolce Tile 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 color, which should be selected accordingly. Contact Altro for information about the effect of chemicals on Altro flooring.**

1. Cleaning: Remove temporary coverings and protection of adjacent work areas.
2. Repair or replace damaged installed products.
3. Clean installed products in accordance with manufacturer’s instructions prior to Owner’s acceptance.
4. Current recommended maintenance procedures can be found on the Altro website at [www.altrofloors.com](http://www.altrofloors.com), Downloads, Technical Documents, Maintenance Guides.

.2 Protection:

1. Sweep or vacuum all construction debris and dust first, then clean the flooring with AltroClean 48W using an auto scrubber.
2. Cover and protect finished installation from damage from other trades using a non-staining, temporary floor protection system, such as reusable textured plastic sheeting.
3. Never use tapes on the surface on the finish flooring, Sharpies, pens, crayons or construction markers on either the finish flooring or the substrate.
4. No traffic for 24 hours after installation, unless approved by Altro technical.
5. No heavy traffic, rolling loads, or furniture placement for 72 hours after installation.
6. Wait 72 hours after installation before performing initial cleaning. Start a regular maintenance program after the initial cleaning as recommended by manufacturer

3.5 PROTECTION

1. Cover and protect finished installation from damage from other trades using a non-staining, temporary floor protection system, such as a reusable textured plastic sheeting.
2. Altro Dolce Tile should be covered and protected from all other trades during construction with a suitable non-staining protective covering without taping to the surface of the flooring.

END OF SECTION