

SECTION: 09 65 00

****NOTE TO SPECIFIER** - Davati Group offers three types of resilient flooring product:

1) WPC Click, 2) Acoustical LooseLay, and 3) Glue Down luxury vinyl tile for the multifamily, hospitality, education, healthcare, and other commercial market segments. This section is intended to provide the specifications for Davati's MAXX Floors products.

Davati Group, is located at:

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Website: www.davati.com / www.maxxfloors.com

PART 1: General**1.1 SECTION INCLUDES**

- A. Acoustical LooseLay

1.2 RELATED SECTIONS

- A. Section 03 30 00 Cast in Place Concrete
- B. Section 09800 Acoustic Room Components
- C. Section 098100 Acoustical Underlayment
- D. Section 096516 Resilient Sheet Flooring
- E. Section 096513 Resilient Base & Accessories

1.3 REFERENCES

- A. ASTM International (ASTM)
 - 1. ASTM F1700 – Standard Specification for Solid Floor Vinyl Tile
 - 2. ASTM E662 – Smoke Density (Flaming) Standard Test Method for Specific Optimal Density
 - 3. ASTM E662 – Smoke Density (Non-Flaming) Standard Test Method for Specific Optimal Density
 - 4. ASTM F1514 – Measuring Heat Stability of Resilient Floor Covering by Color Change
 - 5. ASTM F1515 – Measuring Light Stability of Resilient Flooring by Color Change

6. ASTM F1914 – Test Method for Short Term Indentation and Residual Indentation of Floor Covering
7. ASTM F2199 – Test Method for Determining Dimensional Stability of Resilient Floor Tile
8. ISO 4918 – Castor Chair Test
9. ASTM E648 – Standard Test Method for Critical Radiant Flux of Floor Covering Systems
10. ASTM F137 – Test Method for Flexibility of Floor Covering Materials.
11. ASTM F386 – Standard Test Method for Thickness of Resilient Flooring Materials
12. ASTM F410 – Standard Method for Wear Layer Thickness by Optical Measurement
13. ASTM F925 – 5 Minute Standard Test for Resistance to Chemicals
14. ASTM F925 – 24-hour Standard Test Method for Resistance to Chemicals of Resilient Flooring
15. ASTM F2421 – Test Method for Size and Squareness of Resilient Floor Tile
16. ASTM F137 – Test Method for Flexibility of Floor Materials with Cylindrical Mandrel Apparatus
17. ANSI A137.1 – (Slip Resistance) Dynamic Co-Efficient of Friction of Hard Surface Floors
18. ASTM E90 & 492 – Acoustical Testing

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300 – Administrative Requirements
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 1. Preparation instructions and recommendations.
 2. Storage and handling requirements and recommendations.
 3. Installation methods for each type of substrate.
- C. Shop Drawings

**** NOTE TO SPECIFIER **** Delete selection samples if colors have already been selected.

- D. Selection Samples: For each finish product specified, two complete samples of color chips representing manufacturer's full range of available colors or patterns.

- E. Verification Samples: For each finish product specified, two samples, minimum 6" (150mm) square representing actual product, color and patterns.
- F. Close Out Submittals.
 - 1. Maintenance and operational data includes – methods for maintaining installed products, and precautions against cleaning materials and methods detrimental to finishes and performance.
 - 2. Documentation of Warranty Specified herein.

1.5 QUALITY ASSURANCE

** NOTE TO SPECIFIER ** Add quality requirements if required. Delete if not required. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

- A. Manufacturer Qualifications: All primary products specified in this section will be supplied by a single manufacturer with a minimum of five (5) years of experience.
- B. Installer Qualifications: All products listed in this section are to be installed by a single installer with a minimum of three (3) years demonstrated experience in installing products of the same type and scope as specified.
- C. 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 workmanship, configuration, and finish are approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, handle, and store in manner to products from damage. Product is to deliver on pallets, corner guard and cardboard protected, shrink-wrapped and adequately affixed to pallet to avoid separation during shipping.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Store products indoors. Store products in a dry, temperature controlled area. Maintain temperatures between 65 to 80 degrees F (18 - 26 C) and a relative humidity between 25 - 55 percent. Place products in the installation area no less than 48 hours prior to installation to adjust to environmental conditions.
- D. Store and dispose of hazardous materials, and materials contaminated by hazardous materials, in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Areas to receive the flooring should be clean, fully enclosed, and weather tight with the HVAC set to a temperature of at least 65 degrees (F) (18 degrees C) and less than 85 degrees (F) (30 degrees C) 48 hours prior to and during and not less than 48 hours after installation. The flooring materials should be conditioned in the same way prior to the installation.
- C. Close off open spaces to traffic during resilient flooring installation, and for a period after installation as recommended in writing by the manufacturer.
- D. Concrete substrates must be tested in accordance to ASTM F 2170 or ASTM F 1869. If the results exceed limits of the product or adhesive to be used a moisture mitigation system or damp-proof membrane must be installed to bring moisture levels within specifications
- E. Install resilient flooring materials and accessories after other finishing operations, including painting, have been completed.

1.8 WARRANTY: Manufacturer's standard warranty periods based on availability on the products specified, and project requirements.

- A. MAXX Floors™ LooseLay Flooring
 - 1. Residential: 12-mil Wear Layer – 15-year Warranty
 - 2. Commercial: 12-mil Wear Layer – 10-year Warranty
 - 3. Residential: 20-mil Wear Layer – Lifetime Warranty
 - 4. Commercial: 20-mil Wear Layer – 20-year Warranty / Lifetime with Diamond-Shield

** NOTE TO SPECIFIER ** Delete if not required.

1.9 EXTRA MATERIALS

A. Deliver extra materials needed for attic stock in the same production run as the materials that are being installed. Furnish quantity equal to 2-5% of amount installed from MAXX Floors. Comply with Owner's requirement for delivery and storage of extra materials. (Packaged for protection during transit).

PART 2: PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: DAVATI Group L.L.C., which is located at: 104210 Old Manchaca Highway, suite 110; Austin, Texas 78748; Tel: 512-371-6096; Email: info@davati.com; Web: www.maxxfloors.com

** NOTE TO SPECIFIER ** Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 RESILIENT TILE FLOORING:

- A. Resilient Tile Flooring: **LooseLay**

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|--|--|
| 1. Dimensions: | 9" x 48 |
| 2. Phthalates: | None |
| 3. Formaldehyde: | None |
| 4. Thickness: | 5mm |
| 5. UV Coating: | Ultra-Shield™ Ceramic Bead UV Top Coat |
| 6. Wear Layer: | 12-mil or 20-mil |
| 7. Compliance: | ASTMF1700 |
| 8. Classification: | ASTMF1700 Class 3 Type B |
| 9. Material: | 100% Virgin material |
| 10. Reaction to Fire: | |
| a. ASTM E648-06: | Meets or Exceeds Class 1 Rating |
| b. ASTM E662-A Smoke Density Flaming: | Passes |
| c. ASTM E662-B Non-Flaming Smoke: | Passes |
| 11. Stain Resistance: | |
| a. ASTM F925 5 minutes: | Passes |
| b. ASTM F925 24 hours: | Passes |
| 12. Heat Stability (ASTM F1514): | Passes |
| 13. Light Fastness (ASTM F1515): | Passes |
| 14. Abrasion Resistance (ANSI A137.1): | Average DCOF 44 |

- | | |
|---|----------------------------------|
| 15. Dimensional Stability (ASTMF2199): | Passes (length .008, width .013) |
| 16. Castor Chair Test (ISO4918): | Passes |
| 17. Flexibility of Flooring (ASTMF137): | Passes |
| 18. Thickness: Wear Layer (ASTMF410): | Passes .26mm |
| 19. Size and Squareness (ASTMF2421): | Passes |
| 20. Slip Resistance (ANSI137.1): | Passes DCOF 43 |
| 21. Colors | |

Collection: Distillery

- 100: Barley Blend
- 101: Harvest Hops
- 102: Whiskey Timber
- 103: Bootleg Wood
- 104: Tobacco Blend
- 105: Walnut Brew
- 106: Toasted Oak
- 107: Bourbon Barrell
- 108: Moonshine Bliss
- 109: Spiced Rum

Collection: Select-Woods

- 110: Dark Pecan
- 111: Aspen Oak
- 112: Cedar Wood
- 113: Majestic Oak
- 114: Aged Maple
- 115: Silver Ash
- 116: Fruit Wood
- 117: Java Wood
- 118: Bleached Oak
- 119: Natural Maple
- 120: Driftwood
- 121: Provincial Oak
- 122: Pippy Oak

Collection: Loft House

- 130: Coffee Blend
- 131: Studio Blend
- 132: Arcadian Blend
- 133: Downtown Blend
- 134: Wood/Concrete Blend
- 135: Nutty Oak Blend

- 136: Split Oak Blend
- 137: Artisan Oak
- 138: Blue Pine Blend
- 139: Teak Blend
- 140: Hickory Blend
- 141: Stormy Oak Blend

Collection: Reclaimed

- 150: Sugar Mill
- 151: Trolley Cart
- 152: Train Trestle
- 153: Chicago Metro
- 154: Barn Wood
- 155: Brooklyn Seaport
- 156: Smokey Mountain
- 157: Antique Pine
- 158: Old Schoolhouse
- 159: Old Sawmill
- 160: Blue Ridge
- 161: Green Apple

Collection: Farmhouse

- 170: Montana
- 171: Nebraska
- 172: New York
- 173: Main
- 174: Connecticut
- 175: Colorado
- 176: Tennessee
- 177: Georgia
- 178: New Mexico
- 179: Missouri
- 180: Utah

181: Hawaii
182: Arizona

Collection: Concrete/Stone

200: Concrete 1
201: Concrete 2
202: Concrete 3
203: Concrete 4
204: Concrete 5
205: Concrete 6
206: Concrete 7
207: Concrete 8
208: Stone 1
209: Stone 2
210: Stone 3
211: Stone 4
212: Stone 5
213: Stone 6

214: Stone 7

Collection: Ancient Findings

220: Rome
221: Edinburgh
222: Argos
223: Sparta
224: Athens
225: Alexandria
226: Troy
227: Jericho
228: Damascus
229: Morocco
230: Corinth
231: Petra
232: Tyre
233: Pompeii
234: Babylon

PART 3: Examination

3.1.1 EXAMINATION

- A. Floor Inspections prior to installation is required; perform a moisture test.
- B. Do not begin installation until substrates have been properly cleaned & prepared prior to installation.
- C. If substrate preparation is the responsibility of another installer, notify Architect & General Contractor of unsatisfactory conditions due to lack of preparation before proceeding.
- D. The installation of the resilient flooring shall not begin until the work of all other trades has been completed, particularly wet and overhead trades.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Using Portland based cementitious base leveler or patch fill and cover all nail heads, seams, voids, expansion joints, and cracks.
 - 1. Use of a premium latex primer/sealer is required. We recommend use of the primer/sealer recommended by gypsum manufacturer.

2. Cement slabs can be floated or repaired using Portland cement based compound. Follow patch manufacturers' instructions.

** NOTE TO SPECIFIER ** Delete if substrate is within manufacturer's tolerances for moisture and sealer is not required.

- C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- D. Concrete Substrates: All substrate testing shall be documented and submitted to the Owner and Architect before starting the flooring installation.
 1. Verify that substrates are dry, free of debris, and that all surfaces have properly cured.
 2. Remove substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
 3. Perform Alkalinity and Adhesion tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
 4. Moisture Testing: Perform ASTM 1869 Calcium Chloride or ASTM 2170 In-Situ RH test and record results. Choose proper adhesive or moisture mitigation systems to meet manufacturers' specifications for moisture content. Proceed with installation only after substrates meet specifications.

3.3 INSTALLING RESILIENT TILES AND PLANKS

- A. General:
 1. Permanent HVAC system should be set to a minimum of 65 degrees F (20 degrees C) for a minimum of 48 hours prior to, during and 48 hours after installation. After the installations, the maximum temperature should not exceed 95 degrees F (32 degrees C).
 2. All products shall be allowed to acclimate at least 24 hours before installation. This means product shall be placed in the same room as exact location of the installation and removed from its factory packaging.
 3. Materials should be inspected before installation occurs
 4. Ensure that all recommendations jobsite and subfloor conditions are met before beginning the installation. Once the installation is started, Contractor and installer have accepted those conditions.
 5. Install in accordance with manufacturer's installation instructions for each product type and application specified.

B. Installation:

1. Planks or tiles should be installed from one corner of the room working your way toward the outer wall. Planks, or tiles, should have a 1/4" Gap to the edge of the wall to allow for expansion/contraction
2. It is Important to do some pre-planning. Using the width of the room, calculate how many full boards/tiles will fit into the area and how much space remains that will need to be covered by partial planks. Divide the remaining space by two to calculate the width of the partial planks/tiles. Try where possible to plan for at least a half of a plank/tile to be on the perimeter. Do the same for the length of the room.
3. Center tiles or planks in rooms and hallways so borders are not less than 1/3rd or plank when possible.
4. Install using tile and plank installation techniques recommended by manufacturer.
5. Install tiles, planks, borders and feature strips in locations and configurations indicated on the Drawings.
6. For LooseLay installations only, spread a 4 inch (100 mm) wide band of adhesive around the perimeter of the area designated as an extreme condition area; an additional 4-inch (100 mm).
7. All surfaces need to be smooth, dust free, and level. to within 1/8 inch in 10 feet (3 mm in 3m).

** NOTE TO SPECIFIER ** Delete the following paragraph if not specifying plank shaped simulated wood resilient tile flooring.

C. Product Application:

1. Install in accordance with adhesive recommendations on the label or data sheet.
2. Refer to manufacturer's literature for selection criteria for applicator, type.
3. For transitional areas, from LooseLay to another floor covering of a different height, a 4-inch (100 mm) band of adhesive should be spread across the length of the transition.
4. Concrete subfloors must have moisture testing and any above 75% RH must have a DPM, damp proof membrane, or moisture mitigation installed.

3.4 CLEANING

- A. The simplest way to remove stains from LVT is to use a damp cloth or mop with warm water and neutral pH detergent. If the stain persists, use a soft-bristled brush with warm water and neutral pH detergent to gently rub the stain and remove the dirt without damaging the tile.

- B. Wipe off any adhesive on floor as installation proceeds. Wait 48 hours before applying the cleaning and maintenance products.
- C. Prior to installation of permanent fixtures or furniture, remove all dirt, debris, or residual adhesive and clean the floor. If desired, a protective covering may be applied at this time. Specific products and instructions are available from the manufacturer.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

3.6 MAINTENANCE

- A. Comply with manufacturer's instructions for proper cleaning and maintenance of the products.

END OF SECTION