

SECTION 096810 - COMPOSITE MODULAR TEXTILES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes composite modular textiles (CMT).
- B. Related Sections include the following:
 - 1. Section 096513 "Resilient Base and Accessories" for resilient wall base and accessories installed with CMT.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include manufacturer's written data on physical characteristics, durability, and fade resistance. Include installation recommendations for each type of substrate.
- B. Shop Drawings: Show the following:
 - 1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in CMT.
 - 2. CMT type, color, and dye lot.
 - 3. Type of subfloor.
 - 4. Type of installation.
 - 5. Pattern of installation.
 - 6. Pattern type, location, and direction.
 - 7. Type, color, and location of insets and borders.
 - 8. Type, color, and location of edge, transition, and other accessory strips.
 - 9. Transition details to other flooring materials.
- C. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
 - 1. CMT: Full-size Sample.
 - 2. Composite Base Material: Two-foot long sample.
- D. Product Schedule: For CMT. Use same designations indicated on Drawings.
- E. Qualification Data: For Installer.
- F. Maintenance Data: For CMT to include in maintenance manuals. Include the following:
 - 1. Methods for maintaining CMT, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
 - 2. Precautions for cleaning materials and methods that could be detrimental to CMT.
- G. Warranty: Special warranty specified in this Section.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer with not less than 2 years of CMT installation experience similar to work required by this Project and as approved by manufacturer.
- B. Provide the Carpet and Rug Institute (CRI) Indoor Air Quality (IAQ) label for textile composite modular flooring and adhesives or demonstrate compliance with testing criteria and frequencies through independent laboratory test results. Composite Modular Textile, composite modular flooring, and adhesives bearing the label indicate that the CMT has been tested and meets the Regulatory Requirements and criteria of the CRI IAQ Carpet Testing Program, and minimizes the impact on indoor air quality.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the site in the manufacturer's original wrappings and packages clearly labeled with the manufacturer's name, brand name, size, dye lot number, and related information. Remove materials from packaging and store them in a clean, dry, well ventilated area, protected from damage, soiling, and moisture. Do not store CMT near materials that may off gas or emit harmful fumes, such as kerosene heaters, fresh paint, or adhesives.
- B. Store materials in area of installation for a minimum period of 48 hours prior to installation

1.6 PROJECT CONDITIONS

- A. Comply with CRI 104, Section 7.2, "Site Conditions; Temperature and Humidity" and Section 7.12, "Ventilation."
- B. Environmental Limitations: Do not install CMTs until wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- C. Do not install CMTs over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by CMT manufacturer.
- D. Where demountable partitions or other items are indicated for installation on top of CMTs, install CMTs before installing these items.

1.7 WARRANTY

- A. Special Warranty for CMT: Manufacturer's standard form in which manufacturer agrees to repair or replace components of CMT installation that fail in materials or workmanship within specified warranty period.
 - 1. Warranty does not include deterioration or failure of CMT due to unusual traffic, failure of substrate, vandalism, or abuse.
 - 2. Failures include, but are not limited to, more than 10 percent loss of face fiber, edge raveling, snags, runs, loss of bond strength, dimensional stability, excess static discharge, resiliency loss of backing of more than 10% and delamination.
 - 3. Warranty Period: 25 years from date of Substantial Completion.
 - 4. Installer Warranty: Provide a written installation warranty that guarantees the completed installation to be free of defects in material and workmanship for a period of one year from the date of Substantial Completion.

1.8 EXTRA MATERIALS

- A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. CMT: Full-size units equal to 2 percent of amount installed for each type indicated, but not less than 100 sq. ft..

PART 2 PRODUCTS

2.1 COMPOSITE MODULAR TEXTILES (CMT)

- A. Basis-of-Design Product: Subject to compliance with requirements, provide J & J Flooring; Kinetex composite modular tile:
 - 1. Furnish first quality composite modular textiles; free of visual blemishes, streaks, poorly dyed areas, fuzzing of pile yarn, spots or stains, and other physical and manufacturing defects. Provide CMT materials and treatments as reasonably nonallergenic and free of other recognized health hazards. Provide a static control construction on all grade CMT which gives adequate durability and performance.
- B. Color: As selected by Architect from manufacturer's full range.
- C. Fiber Type: Polyester.
- D. Pile Type: Level

- E. Dye Method: Solution dyed.
- F. Pile Thickness: Minimum 0.205 inch (5.21 mm) per ASTM D5848.
- G. Pile Weight: 4.5 – 5.2 oz./sq. ft., not including weight of backing.
- H. Backing Materials: Polyester felt cushion:
- I. Size: 24 by 24 inches (609.6 mm) modular tile.
- J. Applied Soil-Resistance Treatment: Manufacturer's standard material.
- K. Performance Characteristics: As follows:
 - 1. Flammability and Critical Radiant Flux Requirements: Comply with 16 CFR 1630. Provide material with a minimum average critical radiant flux of 0.45 watts per square centimeter when tested in accordance with ASTM E648.
 - 2. Colorfastness to Crocking: Comply dry and wet crocking with AATCC 165 and with a Class 4 minimum rating on the AATCC Color Transference Chart for all colors.
 - 3. Colorfastness to Light: Comply colorfastness to light with AATCC 16, Test Option E "Water-Cooled Xenon-Arc Lamp, Continuous Light" and with a minimum 4 grey scale rating after 40 hours.
 - 4. Colorfastness to Water: Comply colorfastness to water with AATCC 107 and with a minimum 4.0 gray scale rating and a minimum 4.0 transfer scale rating.
 - 5. Delamination Strength: Provide delamination strength for tufted CMT with a secondary back of minimum 2.5 lbs/inch.

2.2 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by CMT manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed CMT and is recommended by CMT manufacturer for releasable installation.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting CMT performance. Examine CMT for type, color, pattern, and potential defects.
- B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F710 and the following:
 - 1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by CMT manufacturer.
 - 2. Subfloor finishes comply with requirements specified in Division 3 Section "Cast-in-Place Concrete" for slabs receiving CMT.
 - 3. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. General: Comply with CRI 104, Section 6.2, "Site Conditions; Floor Preparation," and with CMT manufacturer's written installation instructions for preparing substrates indicated to receive CMT installation.
- B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch (3.18 mm) wide or wider, and protrusions more than 1/32 inch

(0.79 mm), unless more stringent requirements are required by manufacturer's written instructions.

- C. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by CMT manufacturer.
- D. Broom and vacuum clean substrates to be covered immediately before installing CMT.

3.3 INSTALLATION

- A. Perform all work by manufacturer's approved installers. Conduct installation in accordance with the manufacturer's printed instructions and CRI CIS. Protect edges of CMT meeting hard surface flooring with molding and install in accordance with the molding manufacturer's printed instructions. Follow ventilation, personal protection, and other safety precautions recommended by the adhesive manufacturer. Continue ventilation during installation and for at least 72 hours following installation. Do not permit traffic or movement of furniture or equipment in CMT area for 24 hours after installation. Complete other work which would damage the CMT prior to installation of CMT.
- B. Installation Method: As recommended in writing by CMT manufacturer for glue down.
- C. Maintain dye lot integrity. Do not mix dye lots in same area.
- D. Cut and fit CMT to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings.
- E. Extend CMT into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.
- G. Install pattern parallel to walls and borders.

3.4 CLEANING AND PROTECTION

- A. Perform the following operations immediately after installing CMT:
 - 1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by CMT manufacturer.
 - 2. Remove yarns that protrude from CMT surface.
 - 3. Vacuum CMT using commercial machine with face-beater element.
- B. Protect installed CMT to comply with manufacturer's recommendations.
- C. Protect CMT against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by CMT manufacturer.

END OF SECTION 096810