

SECTION 096813 - TILE CARPETING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

- 1. Modular carpet tile.

B. Related Requirements:

- 1. Section 024119 "Selective Demolition" for removing existing floor coverings.
- 2. Section 096513 "Resilient Base and Accessories" Section 096519 "Resilient Tile Flooring" for resilient wall base and accessories installed with carpet tile.
- 3. Related Requirements: Section 090561 "Common Work Results for Flooring Preparation".

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

- 1. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
- 2. Include manufacturer's written installation recommendations for each type of substrate.

B. Visual Observation Report: For existing floor coverings to be removed.

C. Floor Covering and adhesive Manufacturer's product literature: for each specific combination of substrate, floor covering, and adhesive to be used; showing:

- 1. Moisture and alkalinity (PH) limits and test methods.
- 2. Manufacturer's required bond/compatibility test procedure.

D. Adhesive Bond and Compatibility Test Report.

E. Shop Drawings: For carpet tile installation, plans showing the following:

- 1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
- 2. Carpet tile type, color, and dye lot.
- 3. Type of subfloor.
- 4. Type of installation.

5. Pattern of installation.
6. Pattern type, location, and direction.
7. Pile direction.
8. Type, color, and location of edge, transition, and other accessory strips.
9. Transition details to other flooring materials.

F. 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. Carpet Tile: Full-size Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch- (300-mm-) long Samples.

G. Samples for Verification: 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. Carpet Tile: Full-size Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch- (300-mm-) long Samples.

H. Product Schedule: For carpet tile. Use same designations indicated on Drawings.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Test Reports: For carpet tile, for tests performed by a qualified testing agency.
- C. Sample Warranty: For special warranty.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For carpet tiles to include in maintenance manuals. Include the following:
  1. Methods for maintaining carpet tile, 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 carpet tile.

#### 1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  1. Carpet Tile: Full-size units equal to 5 percent of amount installed for each type indicated, but not less than 10 sq. yd. (8.3 sq. m).

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified by the International Certified Floorcovering Installers Association at the Commercial II certification level.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Comply with the Carpet and Rug Institute's CRI 104.

1.9 FIELD CONDITIONS

- A. Comply with the Carpet and Rug Institute's CRI 104 for temperature, humidity, and ventilation limitations.
- B. Environmental Limitations: Do not deliver or install carpet tiles until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during the remainder of the construction period.
- C. Do not install carpet tiles over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet tile manufacturer.

1.10 WARRANTY

- A. Special Warranty for Carpet Tiles: Manufacturer agrees to repair or replace components of carpet tile installation that fail in materials or workmanship within specified warranty period.
  - 1. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse.
  - 2. Failures include, but are not limited to, the following:
    - a. More than 10 percent edge raveling, snags, and runs.
    - b. Dimensional instability.
    - c. Excess static discharge.
    - d. Loss of tuft-bind strength.
    - e. Loss of face fiber.
    - f. Delamination.
  - 3. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 WALK OFF CARPET TILE WO-1

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Milliken & Company; Obex Tile or a comparable product by one of the following:

1. [Atlas Carpet Mills, Inc.](#)
  2. [Mohawk Group \(The\); Mohawk Carpet, LLC.](#)
- B. Color: -119 Dark Grey
- C. Pattern: - CUT/FIZZ FZC118
- D. Fiber Content: 100 percent nylon, Type 6, 6.
- E. Installation: – monolithic
- F. Pile Characteristic: Tufted, Cut pile.
- G. Pile Thickness: 0.50 inches (mm) for finished carpet tile according to ASTM D6859.
- H. Total Weight: 28 oz./sq. yd. (g/sq. m) for finished carpet tile.
- I. Primary Backing/Backcoating: Manufacturer's standard composite materials.
- J. Size: 19.7" x 19.7".

2.2 CARPET TILE CPT-1, 2, 3

- A. [Basis-of-Design Product](#): Subject to compliance with requirements, provide [Milliken & Company](#); Coastline Tile or a comparable product by one of the following:
1. [Patcraft Carpet](#)
  2. [Mohawk Group \(The\); Mohawk Carpet, LLC.](#)
- B. Pattern and Color:
1. CPT-1 Landscape LND59-124 Dune
  2. CPT-2 Landscape Transition LNT59-124\79-120 Dune/Shoreline
  3. CPT-3 Landscape LND79-120 Shoreline
- C. Fiber Content: 100 percent nylon, Type 6, 6.
- D. Installation: – ASHLAR
- E. Pile Characteristic: Tufted, Textured loop.
- F. Pile Thickness: 0.103" inches (mm) for finished carpet tile according to ASTM D6859.
- G. Total Weight: 86.7 oz./sq. yd. (g/sq. m) for finished carpet tile.
- H. Primary Backing/Backcoating: Manufacturer's standard PVC Free Well BAC Comfort Cushion.
- I. Size: 19.7" x 19.7".

~~2.3~~ ~~CARPET TILE~~ ~~CPT-4~~ CPT-6

Copy this article and re-edit for each product required.

~~A.J.~~ Basis-of-Design Product: Subject to compliance with requirements, provide Mohawk Group (The); Mohawk Carpet, LLC; Nutopia Matrix or a comparable product by one of the following:

1. Patcraft Carpet
2. Milliken & Company.

~~B.K.~~ Pattern and Color:

1. CPT-4 Urban Terrain GT413; Intrigue 989

~~C.L.~~ Fiber Content: Duracolor Tricolor premium Nylon.

~~D.M.~~ Installation: – BRICK ASHLAR

~~E.N.~~ Pile Characteristic: Tufted.

~~F.O.~~ Pile Thickness: 0.103” inches (mm) for finished carpet tile according to ASTM D6859.

~~G.P.~~ Tufted Pile Weight: 20.00 oz./sq. yd. (g/sq. m) for finished carpet tile.

~~H.Q.~~ Primary Backing/Backcoating: Manufacturer's standard ECO Flex Matrix

~~I.R.~~ Size: 12” x 36” .

~~2.42.3~~ INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.
- B. Remedial Floor Coating: Single or multi layer coating or coating/overlay combination intended by its manufacturer's emission limits, resistant to the level of alkalinity (PH) found and suitable for adhesion of flooring without further treatment.
  1. Thickness: as required for application and in accordance with manufacturer's installation instructions.
  2. Products or equal:
    - a. UZIN, a division of UFloor Systems Inc; PE 460 Moisture Vapor Retarder with PE 280 Primer and NC150 Leveling Compound.
- C. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that comply with flammability requirements for installed carpet tile, and are recommended by carpet tile manufacturer for releasable installation.
  1. Verify adhesives have a VOC content of 50 g/L or less.
- D. Metal Edge Strips: Angle or L-shaped, height to match tile thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; stainless steel, ASTM A276/A276M or ASTM A666, 300 Series exposed-edge material.

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
  - a. Schluter Systems L.P or equal.
    - 1) METAL TRANSITION 1: Schluter Schiene E 20 - 2mm height

### 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 carpet tile performance.
- B. Examine carpet tile for type, color, pattern, and potential defects.
- C. Concrete Slabs: Verify that finishes comply with requirements specified in Section 033000 "Cast-in-Place Concrete" and that surfaces are free of cracks, ridges, depressions, scale, and foreign deposits.
  1. Moisture Testing: Perform tests so that each test area does not exceed **200 sq. ft. (18.6 sq. m)**, and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
    - a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of **3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m)** in 24 hours.
    - b. Relative Humidity Test: Using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.
    - c. Perform additional moisture tests recommended in writing by adhesive and carpet tile manufacturers. Proceed with installation only after substrates pass testing.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 PREPARATION

- A. General: Comply with the Carpet and Rug Institute's CRI 104 and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile.
- 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 mm)** wide or wider, and protrusions more than **1/32 inch (0.8 mm)** unless more stringent requirements are required by manufacturer's written instructions.
- C. Concrete Substrates: 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 adhesive and carpet tile manufacturers.

- D. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.

### 3.3 INSTALLATION

- A. General: Comply with the Carpet and Rug Institute's CRI 104, Section 10, "Carpet Tile," and with carpet tile manufacturer's written installation instructions.
- B. Installation Method:
  - 1. Install Moisture Remediation System as recommended by manufacturer.
  - 2. Install CarpetTile - As recommended in writing by carpet tile manufacture with substrates and remediation system specified.
- C. Maintain dye-lot integrity. Do not mix dye lots in same area.
- D. Maintain pile-direction patterns recommended in writing by carpet tile manufacturer.
- E. Cut and fit carpet tile to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet tile manufacturer.
- F. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- G. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on carpet tile as marked on subfloor. Use nonpermanent, nonstaining marking device.
- H. Install pattern parallel to walls and borders.

### 3.4 CLEANING AND PROTECTION

- A. Perform the following operations immediately after installing carpet tile:
  - 1. Remove excess adhesive and other surface blemishes using cleaner recommended by carpet tile manufacturer.
  - 2. Remove yarns that protrude from carpet tile surface.
  - 3. Vacuum carpet tile using commercial machine with face-beater element.
- B. Protect installed carpet tile to comply with the Carpet and Rug Institute's CRI 104, Section 13.7.
- C. Protect carpet tile 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 carpet tile manufacturer.

END OF SECTION 096813