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PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 SUMMARY

- A. This Section includes carpet tiles and floor substrate preparation.
- B. This section includes carpet sheet good with bound edgings as area rugs.
- C. Related Sections include the following:
1. Division 09 Section "Resilient Flooring" for resilient wall base and accessories installed with carpet.
  2. Division 01 Section "CT High Performance Building Guidelines".

1.03 SUBMITTALS

- A. Product Data: For the following, including installation recommendations for each type of substrate:
1. Carpet Tile: For each type indicated. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
- B. Shop Drawings: Show the following:
1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tile.
  2. Existing flooring materials to be removed.
  3. Existing flooring materials to remain.
  4. Carpet tile type, color, and dye lot.
  5. Carpet tile layout.
  6. Type of subfloor.
  7. Type of installation.
  8. Pattern type, repeat size, location, direction, and starting point.
  9. Pile direction.
  10. Type, color, and location of insets and borders.
  11. Type, color, and location of edge, transition, and other accessory strips.
  12. Transition details to other flooring materials.
- C. Sustainable Submittals:
1. List of proposed materials with recycled content, including a statement indicating cost, post-consumer recycled content, and pre-consumer recycled content for each product having recycled content.
  2. List of proposed regionally manufactured materials, including a statement indicating cost and distance from manufacturer to Project for each regionally manufactured material.
  3. Product Data for adhesives and sealants used on the interior of the building indicating chemical composition and VOC content of each product used.

Indicate VOC content in g/L calculated according to 40 CFR 59, Subpart D (EPA method 24).

4. Manufacturers' product data for carpet and installation adhesive, including printed statement of VOC content.
  5. Documentation showing compliance with CRI Green Label Plus requirements.
- D. Written moisture test report.
- E. Maintenance Data: For carpet tile 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 tiles.
- F. Warranties: Special warranties specified in this Section.

#### 1.04 QUALITY ASSURANCE

- A. Provide units with Class B flame or better spread rating under ASTM E84, with smoke developed less than 450.
- B. Fire-Test-Response Characteristics: Provide carpet with the surface-burning characteristics indicated, as determined by testing identical products per ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.
- C. Provide units with Class B flame or better spread rating under ASTM E84, with smoke developed less than 450.

#### 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Comply with CRI 104, Section 5, "Storage and Handling."

#### 1.06 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 carpet tiles 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. Where demountable partitions or other items are indicated for installation on top of carpet tile, install carpet tiles before installing these items.

#### 1.07 WARRANTY

- A. Special Warranty for Carpet Tiles: Manufacturer's standard form in which 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, more than 10 percent loss of face fiber, edge raveling, snags, runs, loss of tuft bind strength, excess static discharge, and delamination.
3. Warranty Period: 10 years from date of Substantial Completion.

#### 1.08 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. Carpet Tiles: Provide 4 additional boxes of carpet tiles for each color and pattern specified.

### PART 2 - PRODUCTS

#### 2.01 CARPET

- A. Provide carpeting as indicated on the Finish Schedule or subject to the requirements comparable products as approved by the Architect prior to submission of Bid.

#### 2.02 INSTALLATION ACCESSORIES

- A. Moisture Test Kit: First recommendation of approved flooring manufacturer. Test shall provide quantitative results.
- B. Underlayment: Dowman Products, Inc., "Fixall", or Essex Chemical Corporation "Webtex #90", or Laticrete International, Inc., "#86 Underlayment", or equal, and as acceptable to the flooring manufacturer.
- C. Concrete Seal: VAPI I 2000 as manufactured by Koester American Corporation, or Dramatic Surface Products DSP 508 as manufactured by Specialty Construction Brands, Inc., or Vi-Tex Concrete Seal as manufactured by the Industrial Products Division of Roofing Equipment, Inc.; or approved equal.
- D. Adhesives: Water-resistant, mildew-resistant, non-staining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and is recommended or provided by carpet tile manufacturer.

### PART 3 - EXECUTION

#### 3.01 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. Examine carpet tiles for type, color, pattern, and potential defects.
- B. Test moisture content of substrates to receive carpet materials to verify that moisture is within the manufacturers' acceptable limits. Perform tests only when interior space is enclosed and conditioned.
- C. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 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 carpet tile manufacturer.
  2. Subfloor finishes comply with requirements specified in Division 03 Section "Cast-in-Place Concrete" for slabs receiving carpet.
  3. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.02 PREPARATION

- A. General: Comply with CRI 104, Section 7.3, "Site Conditions; Floor Preparation," and with carpet tile manufacturer's written installation instructions for preparing substrates.
- B. Provide concrete seal equivalent to VAP I 2000 at 100 square feet per gallon, or Vi-Tex "Level 3", as required to provide substrate moisture level within the flooring manufacturer's acceptable limits.
- C. 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 1/16 inch wide or wider, and protrusions more than 1/32 inch, unless more stringent requirements are required by manufacturer's written instructions.
- D. 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 carpet manufacturer.
- E. Broom and vacuum clean substrates to be covered immediately before installing carpet tiles.

### 3.03 INSTALLATION

- A. General: Comply with CRI 104, Section 14, "Carpet Modules," and with carpet tile manufacturer's written installation instructions.
- B. Installation Method: Glue down; install every tile with full-spread, releasable, pressure-sensitive adhesive.
- C. Maintain dye lot integrity. Do not mix dye lots in same area.
- D. 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.
- E. Extend carpet tile 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.

3.04 CLEANING AND PROTECTING

- A. Perform the following operations immediately after installing carpet tiles:
  - 1. Remove excess adhesive, seam sealer, 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 CRI 104, Section 16, "Protection of Indoor Installations."
- 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 and carpet tile adhesive manufacturer.

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END OF SECTION 09 68 00