

PART 1 – GENERAL

1.1 SUMMARY

- A. This Section includes:
 - 1. Carpet Tile, including substrate preparation, product and installation.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Section 09 65 00 - Resilient Flooring and Accessories for materials and installation.

1.2 SUBMITTALS

- A. See Section 01 15 00 - Sustainable Design and Construction Procedures for required LEED certification submittals.
- B. Comply with requirements of Section 01 33 00 'Submittal Procedures'.
- C. Product Data for each type of carpet material, carpet cushion, and installation accessory specified. Submit manufacturer's printed data on physical characteristics, durability, fade resistance, and fire-test-response characteristics. Submit methods of installation for each type of substrate.
- D. Shop Drawings showing columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet. Indicate the following:
 - 1. Carpet type, color, and dye lot.
 - 2. Locations where dye lot changes occur.
 - 3. Seam locations, types, and methods.
 - 4. Type of subfloor.
 - 5. Type of installation.
 - 6. Pattern type, repeat size, location, direction, and starting point.
 - 7. Pile direction
 - 8. Type, color, and location of insets and borders.
 - 9. Type, color, and location of edge, transition, and other accessory strips.
 - 10. Transition details to other flooring materials.
- E. Samples: Two (2) full tiles of each pattern and color specified.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced Installer who is certified by the Floor Covering Installation Board (FCIB) or who can demonstrate compliance with FCIB certification program requirements.
- B. Flooring Contractor must be certified by the Manufacturer.
- C. Manufacturer to provide a representative to assist in project start-up as required by the job. Contractor shall notify representative prior to start of installation. Manufacturer will notify the County's Project Representative if installation instructions are not followed.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. General: Comply with the Carpet and Rug Institute's CRI 104, Section 5: "Storage and Handling."
- B. Store materials on-site in original undamaged packages, inside well-ventilated area protected from weather, moisture, soilage, extreme temperatures, and humidity. Lay flat, with continuous blocking off ground.

1.5 PROJECT CONDITIONS

- A. General: Comply with CRI 104, Section 6: "Site Conditions."
- B. Space Enclosure and Environmental Limitations: Do not install carpet until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, work above ceilings is complete, and ambient temperature and humidity conditions are and will be continuously maintained at values near those indicated for final occupancy.
- C. Subfloor Moisture Conditions: Moisture emission rate of not more than 3 lb/1000 sq. ft./24 hours (14.6 kg/1000 sq. m/24 hours) when tested by calcium chloride moisture test in compliance with CRI 104, 6.2.1, with subfloor temperatures not less than 55 deg F (12.7 deg C).
- D. Subfloor Alkalinity Conditions: A pH range of 7 to 9 when subfloor is wetted with potable water and pHydron paper is applied.
- E. Sub-floor preparation is to include all required work to prepare the concrete floor for installation of the products specified in the documents. Sub-floor preparation shall meet all conditions as specified in the Manufacturer's installation instructions.
- F. All materials used in the sub-floor preparation and repair shall be recommended by the carpet manufacturer or shall be physically and chemically compatible with the carpet system being bid.

1.6 WARRANTY

- A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.
- B. Provide a standard, printed, non-prorated warranty from the Manufacturer. All warranty items to be full term, not pro-rated for the indicated period. If the product fails to perform as warranted when properly installed and maintained, the affected area will be repaired or replaced at the discretion of the Manufacturer.
- C. The term of the carpet warranty shall be ten (10) years from date of Substantial Completion and shall cover against:
 - 1. Excessive Surface Wear.
 - 2. Excessive wear means more than 15% loss of pile fiber weight measured before and after use.
 - 3. Edge ravel.

4. Zippering.
 5. Backing delamination.
 6. Backing delamination is defined as separation of the secondary backing from the primary backing.
 7. Watermarking on any product not 100% loop construction.
 8. Watermarking means an apparent color difference between areas of the same carpet due to permanent pile reversal with random differences in pile lay direction and differences in the amount of light reflected by carpet fibers.
 9. Excessive static electricity.
 10. Excessive static electricity means more than 3.0 kilovolts when tested per AATCC 134 at a relative humidity of 20% and a room temperature of 70°F.
- D. Chair pads are not required for carpet warranty coverage.
- E. All carpet warranties to be sole source responsibility of the Manufacturer. Second source warranties or warranties that involve parties other than the Manufacturer are unacceptable.
- F. Carpet warranties will be official standard documents, not customized, and shall not be created on a job by job basis.
- G. All carpet warranties shall be signed and notarized by a company representative.

1.7 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed, are packaged with protective covering for storage, and are identified with labels clearly describing contents.
- B. Provide one full additional box of each Carpet Tile color.

PART 2 – PRODUCTS

2.1 CARPET TILE

- A. Basis of Design Product: Subject to compliance with requirements, provide products listed in drawings by Shaw Contract or comparable product by one of the following:
1. Milliken Carpets
 2. Lees
 3. Mohawk
 4. Or Approved Equal
- B. Installer will be responsible for determining quantities of material required to complete the installation.

2.2 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet manufacturer.
- B. Concrete-Slab Primer: Nonstaining type as recommended by carpet tile manufacturer.

- C. Adhesives: Water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and is recommended or provided by carpet manufacturer.
 - 1. Carpet as installed to be securely attached to the floor in compliance with Americans with Disabilities Act (ADA), Section 4.5.3.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine subfloors and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, smoothness, fastener installation and other conditions affecting performance of carpet. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Verify that subfloors and conditions are satisfactory for carpet installation and comply with requirements specified in this Section and those of carpet tile manufacturer.

3.2 PREPARATION

- A. General: Comply with carpet manufacturer's installation recommendations to prepare substrates indicated to receive carpet installation.
- B. Level subfloor within 1/4 inch in 10 feet (6 mm in 3 m), noncumulative, in all directions. Sand or grind protrusions, bumps, and ridges. Patch and repair cracks and rough areas. Fill depressions.
 - 1. Use leveling and patching compounds to fill cracks, holes, and depressions in subfloor as recommended by carpet tile manufacturer.
- C. Remove subfloor coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone.
- D. Broom or vacuum clean subfloors to be covered with carpet. Following cleaning, examine subfloors for moisture, alkaline salts, carbonation, or dust.
- E. Concrete-Subfloor Preparation: Apply concrete-slab primer, according to manufacturer's directions, where recommended by carpet tile manufacturer.

3.3 CARPET TILE INSTALLATION

- A. General: Comply with CRI 104, Section 13: "Carpet Modules (Tiles)."
- B. Method: Full spread; anchor every tile to the floor.
- C. Where demountable partitions or other items are indicated for installation on top of finished carpet floor, install carpet before installation of these items.
- D. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Fit and butt tightly to existing VCT to remain.

- E. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.

3.4 CLEANING

- A. Perform the following operations immediately after completing installation.
 - 1. Remove visible adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
 - 2. Remove protruding yarns from carpet surface.
 - 3. Vacuum carpet using commercial machine with face-beater element.

3.5 PROTECTION

- A. General: Comply with CRI 104, Section 15: "Protection of Indoor Installation."
- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, which ensure carpet is without damage or deterioration at the time of Substantial Completion.

END OF SECTION