

## **PRODUCTS**

### **1.1 CARPET, GENERAL, BROADLOOM, SQUARES, TILES**

#### **A. Performance Characteristics:**

1. Face Yarn
    - a. 100% Antron type 6.6
    - b. Minimum face yarn weight: 17 oz./sq. yd.
    - c. Weave: Tuft level looped
    - d. Gauge: 1/10<sup>th</sup> inch minimum
    - e. Average pile density: 5,000 Oz./sq. yd.
  2. Backing:
    - a. Primary backing and bonding agent, 100% synthetic (no SBR latex)
    - b. Secondary backing, polyvinyl cushion or solid closed cell non-aqueous polymeric vinyl composite.
- B. Critical Radiant Flux Classification: Not less than 0.45 W/sq. cm according to NFPA 253.
- C. Electrostatic Propensity: Less than 3.5 kV according to AATCC 134.
- D. Flooring products shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

### **1.2 MANUFACTURERS**

#### **A. Subject to compliance with requirements, provide the Basis of Design products listed below, or comparable product by one of the following. Comparable products must demonstrate aesthetic compatibility with all other finish products and colors.**

1. Mannington.
2. Mohawk Group (The); Mohawk Carpet, LLC.
3. Tandus Centiva.
4. Milliken
5. Bidder may submit Request for Substitution for Basis of Design product PRIOR TO BID.

### **2.0 QUALITY ASSURANCE**

- A. Installer Qualifications: An experienced installer with demonstrable experience with similar projects for a period of at least five years, with certified training to install specified product, and approved by carpet manufacturer.
- B. Mockups: Build mockups to verify selections made under sample submittals, demonstrate aesthetic effects and set quality standards for execution.
- C. Locate mockups in locations where directed by Project Manager.
- D. Approval of mockups does not constitute approval of deviations from the Contract Documents.
- E. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

### **3.0 SUBMITTALS**

- A. Minimum 12" x 12" samples of each type of carpet, for Architect's/Owner's selections of colors.
- B. For carpet installations over 500 square yards, submit carpet layout drawings showing seam locations, pattern, nap direction, and type of edge treatment. No perpendicular seams shall occur within door openings. Show cross seams.
- C. Carpet name, manufacturer, and complete specification data. Submit product data for adhesive and seam welding materials.

- D. Manufacturer's maintenance data. Include methods for maintaining carpet, including satin-removal products and procedures, and precautions for cleaning materials and methods that could be detrimental to finishes and performance.
- E. Record finish schedule including material and color designations.

#### **4.0 WARRANTY**

- A. Provide an extended warranty underwritten by the carpet manufacturer for a minimum period of **20** years.
  - 1. Coverage limits shall not be pro-rated at any time during the warranty period.
  - 2. Coverage shall not be restricted to any amount less than the cost of the material and labor for complete replacement of carpet.
  - 3. Warranty coverage shall include, at minimum, surface wear exceeding 15% of pile fiber, edge ravel, loss of seam integrity, delamination, loss of adhesion to the floor, yarns pulls, zippering, and moisture penetration.
- B. Installation contractor shall provide a written warranty for a period of two (2) years. Warranty shall guarantee the completed installation to be free from defects in material and workmanship.

#### **5.0 WALK OFF MATTING**

- A. Walk-off Carpet: Mohawk-Tuff Stuff II, Step Up II, Mannington-Frixtion, Tandus-Abrasive Action, Milliken-Obex, or approved equivalent.
- B. Installation: Monolithic.
- C. Adhesives for moisture levels higher than 80% and recommended by manufacturer, unless moisture mitigation used.

#### **6.0 ACCESSORIES**

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, non-staining, 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.
- C. Manufacturer's standard adhesive tab system may be used in lieu of full-spread adhesive system.
- D. Adhesives shall have a VOC content of 50 g/L or less.
- E. Adhesives shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- F. Moisture Mitigation: Provide the following where slab moisture content exceeds flooring manufacturer's written guidelines.
- G. Two-component, 100% solids epoxy coating, or coating recommended by flooring manufacturer.
- H. Basis of Design Product: Mapei Planiseal VS, Alkali-Resistant Epoxy Moisture-Reduction Barrier.
- I. Bidder may submit Request for Substitution for Basis of Design product PRIOR TO BID per Section 01 60 00 – Product Requirements.
- J. Moisture mitigation products shall have a VOC content of 50 g/L or less.

## **7.0 BASE**

- A. FS SS-W-40 Rubber; top set covered:
  - A. R.C. Musson Rubber Company.
  - B. Roppe Rubber Corporation.
  - C. Burke Industries.
  - D. Johnsonite.
  - E. Approved Equal.
- 2. Height: 4 inch; 4.5 inch preferred. 6 inch if needed. 18 inch tile not allowed.
- 3. Thickness: 0.125 thick.
- 4. Finish: Matte.
- 5. Length: 4 foot sections or rolled.
- 6. Colors: black is preferred.
- 7. 1/8 inch thickness x 4 inches high.
- 8. 6 inch high base required in all toilets. Scribed internal corners.
- 9. Use topset cove base at all resilient flooring and carpeted locations.
- 10. Use solid rubber base. No vinyl base allowed.
- 11. All floor applications shall include a cove base monolithic with the floor, rubber preferred.
- 12. Carpet base considered at certain locations.
- 13. INSTALLATION
  - B. Fit joints tight, straight and vertical. Maintain minimum measurement of 1 foot 6 inches between joints.
  - C. Miter internal corners. External corners shall be job formed - no joints within 2 feet of corner edge.
  - D. Install base on solid backing. Bond tight to wall and floor surfaces.
  - E. Scribe and fit to protruding door frames and other interruptions.

## **8.0 DELIVERY, STORAGE, AND HANDLING**

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

## **9.0 FIELD CONDITIONS**

and Rug Institute's CRI 104 for temperature, humidity, and ventilation limitations.

A. Comply with the Carpet

- 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.

## **10.0 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. 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.
- C. Mitigation: Where slab alkalinity or moisture content exceeds manufacturer's written guidelines, provide mitigation as follows:
  - D. Apply moisture mitigation product according to manufacturer's written instructions.
  - E. 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 wide or wider, and protrusions more than 1/32 inch unless more stringent requirements are required by manufacturer's written instructions.
  - F. Level subfloor to within 1/4 inch in 10 feet, noncumulative, in all directions.

- G. Leveling of major uneven concrete floor joints or other irregularities by bush hammering or grinding and filling will be accomplished by General Contractor. Leveled areas shall be inspected by the Architect before carpeting work may proceed. Minor filling of low areas, irregularities and filling of control joints will be performed by this Contractor.
- H. Sand or grind surface smooth to eliminate telegraphing and photographing of depressions, peaks, roughness, high points, and surface characteristics of underlayment.
- I. Broom and vacuum clean substrates to be covered immediately before installing carpet tile.
- J. Apply concrete slab primer where recommended by carpet manufacturer.

## **11.0 INSTALLATION**

- A. 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.
- B. General: Comply with the Carpet and Rug Institute's CRI 104, Section 10, "Carpet Tile," and with carpet tile manufacturer's written installation instructions.
- C. Installation Method: Glue down; install every tile with full-spread, releasable, pressure-sensitive adhesive, as recommended in writing by carpet tile manufacturer.
- D. Maintain dye-lot integrity. Do not mix dye lots in same area.
- E. Lay carpet with run of pile in same direction as anticipated traffic.
- F. 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.
- G. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- H. At doorways, center seams under the door in closed position.
- I. 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, non-staining marking device.
- J. Install pattern parallel to walls and borders.
- K. Install pattern indicated on the drawings.
- L. At movable partitions, install flooring under partitions without interrupting floor pattern.
- M. Do not bridge building expansion joints with carpet.
- N. Manufacturer's standard adhesive tab system may be used in lieu of full-spread adhesive system.

## **12.0 FIELD QUALITY CONTROL**

- A. Provide manufacturers field inspection services during final inspection, and as otherwise requested by the Owner.
- B. Defects in material or workmanship shall be immediately repaired or replaced.

## **13.0 CLEANING AND PROTECTION**

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