

SECTION 09 68 13 - TILE CARPETING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes carpet tile.
- B. Refer to Division 01 Sections for requirements regarding:
 - 1. LEED credit achievement goals as summarized by the LEED Scorecard attached to Section 01 81 13 "Sustainable Design Requirements."
 - 2. Requirements for documentation of LEED credits.
 - 3. Payment application requirements as they relate to LEED documentation requirements.

1.2 STANDARDS

- A. Except as modified by governing codes and by the Contract Documents, comply with the applicable provisions and recommendations of the following:
 - 1. The Carpet and Rug Institute "CRI 104 Commercial Carpet Installation Standard."
 - 2. The Carpet and Rug Institute "Green Label Plus" Standards.

1.3 SUBMITTALS

- A. Product Data: Submit product data, specifications, installation instructions for materials specified herein and other data as may be required to show compliance with the Contract Documents. Include installation recommendations for each type of substrate required.
- B. Sustainable Design Submittals:
 - 1. Completed "LEED Criteria Worksheet," for each component material of the product or assembly used in the installation of Work of this Section. Refer to Section 01 81 13 "Sustainable Design Requirements."
 - 2. Product Data: For adhesives, indicating VOC content.
 - 3. Laboratory Test Reports: For adhesives, indicating compliance with requirements for low-emitting materials.
 - 4. Laboratory Test Reports: For flooring products, indicating compliance with requirements for low-emitting materials.
 - 5. Environmental Product Declaration: For each product.
 - 6. Health Product Declaration: For each product.

TILE CARPETING

09 68 13 - 1

- C. Shop Drawings: Submit shop drawings showing the following:
1. Existing floor materials to be removed.
 2. Existing floor materials to remain.
 3. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
 4. Carpet tile type, color, and dye lot.
 5. Type of subfloor.
 6. Type of installation.
 7. Pattern of installation, carpet locations, direction, and starting points per floor.
 8. Type, color, and location of insets and borders.
 9. Type, color, and location of edge, transition, and other accessory strips.
 10. Pile direction.
 11. Transition and other accessory strips.
 12. Transition details to other flooring materials.
- D. Samples: Submit samples showing full range of color, texture, and pattern variations expected. Prepare samples from same material to be used for the Work. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules. Submit the following:
1. Carpet Tile: Full-size Samples.
 2. Exposed Edge Stripping and Accessory: 12-inch- long Samples.
- E. Maintenance Data: Submit copies of instructions for care, cleaning, maintenance and repair of carpeting.
1. Each carpet manufacturer shall meet with the authorized Building Services personnel in the presence of the Owner, to review the characteristics of his product and to recommend appropriate maintenance procedures, prior to occupancy of the finished spaces.
- F. Warranty: Submit special warranties specified in this Section.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Extra Materials: 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 Tile: Full-size units equal to 5 percent of amount installed for each type indicated, but not less than 10 sq. yd. .
- B. Attic Stock: Package and deliver usable remnants of carpet to the Owner's storage room as directed by the Owner at the conclusion of the job. Include any uncut carpet tiles.

TILE CARPETING

09 68 13 - 2

Package Number: T5
Package Name: Terminal Interiors, M-P-E-FP, AV/IT,
Security, Signage, and Landscape
ACAA Project Number: TBD
Project Manual Volume 3 of 3
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1.5 QUALITY ASSURANCE

- A. **Installer Qualifications:** Engage a carpet installer, who has completed a minimum of three (3) projects over the last 10 years which were similar in material, design and extent to that indicated for the project - as determined by the Architect - and which have resulted in construction with a record of successful in service performance.
 - 1. In the case where the Installer is actually a Dealer, it is understood that the terms Installer, Dealer, Carpeting Contractor and Contractor shall be one and the same for purposes of this Contract. He shall assume responsibility for all of the work, including acquisition of the materials from the manufacturers herein specified.
- B. **Mill Inspection:** The carpeting may be inspected to determine compliance with the Contract Documents with respect to manufacture, materials, pattern and colors. Inspection may be made at the mill by a representative of the Architect and/or Owner at any time during the process of manufacture.
- C. **Sample Installations:** Before installing carpet, install sample installation, for each type of carpet installation required to demonstrate aesthetic effects and qualities of materials and execution. Install sample installations to comply with the following requirements, using materials indicated for the completed Work:
 - 1. **Size and Location:** Provide 250 square foot sample installation in location as directed by Architect.
 - 2. Demonstrate the proposed range of aesthetic effects and workmanship.
 - 3. Obtain Architect's approval of sample installations before starting work.
 - 4. Maintain sample installations during construction in an undisturbed condition as a standard for judging the completed Work.
 - 5. Approved sample installations may become part of the completed Work if undamaged at time of Final Acceptance.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Comply with CRI 104.
- B. Deliver carpeting in original mill protective wrapping with mill register numbers and tags attached.
- C. Deliver other materials in manufacturers unopened containers identified with name, brand, type, grade, class, and other qualifying information.
- D. Store materials in a dry location, in such a manner as to prevent damage.

TILE CARPETING

Package Number: T5
Package Name: Terminal Interiors, M-P-E-FP, AV/IT,
Security, Signage, and Landscape
ACAA Project Number: TBD
Project Manual Volume 3 of 3
Copyright 2020 Gensler

09 68 13 - 3

1.7 FIELD CONDITIONS

- A. General: Comply with CRI 104.

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install carpet tile 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.
- B. Do not install carpet tile 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.

1.9 WARRANTY

- A. Special Carpet Manufacturer's Warranty: Written warranty, signed by carpet tile manufacturer agreeing to replace carpet tile that does not comply with requirements or that fails within specified warranty period. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse. Failures include, but are not limited to, more than 10 percent loss of face fiber, wear, static buildup in excess of 3.0 kV when tested under the Standard Shuffle Test at 70 deg. F and 20 percent RH, edge raveling without seam sealers, tuft bind loss, zippering (wet or dry), shrinkage, curling, doming, snags, runs, and delamination. Warrantees shall be full term, not pro-rated for the specified warranty period.
 - 1. Warranty Period: 10 years from date of Final Acceptance.
- B. Special Carpet Tile Installer's Warranty: Written warranty, signed by carpet tile installer agreeing to fix, repair or replace carpet tile that does not comply with requirements or that fails within specified warranty period. Warranty does not include deterioration or failure of carpet tile due to unusual traffic, failure of substrate, vandalism, or abuse. Failures include, but are not limited to, more than edge raveling, shrinkage, curling, doming, and delamination.
 - 1. Warranty Period: 2 years from date of Final Acceptance.

TILE CARPETING

Package Number: T5
Package Name: Terminal Interiors, M-P-E-FP, AV/IT,
Security, Signage, and Landscape
ACAA Project Number: TBD
Project Manual Volume 3 of 3
Copyright 2020 Gensler

09 68 13 - 4

PART 2 - PRODUCTS

2.1 GENERAL

- A. Environmental Product Declaration of Product: Products shall have Product-specific Type III EPD.

2.2 PERFORMANCE REQUIREMENTS

- A. Provide all carpet furnished for the project complying with the following performance requirements:
 - 1. Smoke Density: ASTM E662 less than 450, Flaming Mode.
 - 2. Surface Flammability ASTM D2859/ ISO 6925 Methenamine Pill Test.
 - 3. Critical Radiant Flux: ASTM E-648 Radiant Panel Test Class I, average minimum 0.45 watts per square centimeter.
 - 4. Pile Density: Not less than 5,600 oz/cu.yd.
 - 5. Stitches per Inch: Not less than 9 per inch.
 - 6. Dyes: 100 percent solution dyed.
 - 7. Tufted Backing: Textured Loop or Cut & Loop

2.3 CARPET TILE (CP##)

- A. Carpet Tile Types: Provide manufacturers commercial grade carpet tile for 100% glue down installation as scheduled on the drawings.
- B. Flooring products shall comply with the requirements of the California Department of Public Health's (CDPH) "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Standard Method v1.2-2017.

2.4 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Portland cement-based formulation provided by or recommended by carpet tile manufacturer. Do not use gypsum based compounds.
- B. Carpet Adhesives: Water-resistant, mildew resistant, and nonstaining, high solids, low VOC emitting formulations that are specifically recommended by the carpet manufacturer, as verified through compatibility and adhesion testing for the intended substrate and application, and that comply with flammability requirements for installed carpet.

TILE CARPETING

Package Number: T5
Package Name: Terminal Interiors, M-P-E-FP, AV/IT,
Security, Signage, and Landscape
ACAA Project Number: TBD
Project Manual Volume 3 of 3
Copyright 2020 Gensler

09 68 13 - 5

1. VOC Limits: Provide adhesives with VOC content not more than 50 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24)(ASTM D 3960).
 2. 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."
- C. Carpet Edging: Provide rubber composition carpet edging in single lengths wherever possible, keeping the number of joints or splices to a minimum. Provide in quantities and locations as job required based upon the recommended good practice of the industry; include in every location where carpet terminates and other flooring continues. Color to match adjacent carpet types.
- D. Floor Sealer: Type as recommended and manufactured by the carpet tile manufacturer for the applications indicated.
1. VOC Limits: Provide floor sealer with VOC content not more than 200 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24)(ASTM D 3960).

PART 3 - EXECUTION

3.1 PRE-INSTALLATION MEETING

- A. Prior to the installation, and at the Contractor's direction, meet at the project site to review the material selections, substrate preparations, installation procedures, coordination with other trades, special details and conditions, standard of workmanship, and other pertinent topics related to the Work. The meeting shall include the Owner, Architect, the Contractor, the installer, material manufacturer's representatives, and representatives of other trades or subcontractors affected by the installation.

3.2 PREPARATION

- A. Coordinate the installation of carpet so as not to delay the occupancy of the site or interfere with the completion of construction.
- B. Examine the substrates, adjoining construction and the conditions under which the Work is to be installed. Verify recommended limits for moisture content and alkalinity of concrete substrates with carpet manufacturer.
1. Moisture Content: Verify moisture content using a standard calcium chloride crystal test or a 1 square yard clear plastic test. Perform testing at a frequency as recommended by the carpet manufacturer. Perform testing at a frequency of not less than once every 1,000 square feet .

TILE CARPETING

Package Number: T5
Package Name: Terminal Interiors, M-P-E-FP, AV/IT,
Security, Signage, and Landscape
ACAA Project Number: TBD
Project Manual Volume 3 of 3
Copyright 2020 Gensler

09 68 13 - 6

2. Alkalinity Test: Verify alkalinity of concrete substrates by drilling a 3/8 inch diameter hole approximately 1/4 inch deep, remove all residue; fill with distilled water, allow water to stand 3 minutes and test with a calibrated electronic meter or Ph paper. Perform testing at a frequency of not less than once every 1,000 square feet
 3. Alternative test procedures for moisture content and alkalinity may be acceptable subject to the carpet manufacturer's review and written acceptance.
 4. Refer to Section 09 61 43 "Vapor-Control Flooring Treatment" for slab vapor transmission control when moisture testing results exceeds flooring manufacturer's recommendations. Treat slab prior to underlayment and flooring assembly installation.
- C. Concrete Subfloors: Verify that concrete slabs comply with the following:
1. Provide one of the following:
 - a. Remove coatings, including curing compounds, existing floor covering adhesive residues, 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 the carpet manufacturer.
 - b. In lieu of mechanical substrate preparation methods the Contractor may utilize floor sealer materials and methods of the types and methods as recommended, in writing, by the carpet tile manufacturer. Apply sealer in number of coats, and at the spread rate, as required by the carpet tile manufacturer.
 2. 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 the carpet manufacturer.
 3. Use leveling and patching compounds recommended by flooring manufacturer for filling cracks, holes and depressions in the substrate. Surface shall be smooth, level and at proper elevation. Remove ridges, roughness and protrusions from concrete surfaces by grinding.
- D. Broom and vacuum clean substrates to be covered immediately before installing carpet.
- E. Carpet installation shall not commence until painting and finishing work are complete and ceiling and overhead work is tested, approved, and completed.
- F. Proceed with installation only after unsatisfactory conditions have been corrected

3.3 INSTALLATION

- A. General: Comply with the manufacturer's instructions, specified industry standards and recommendations, and as required to match the accepted sample installations. Apply adhesive in accordance with adhesive manufacturer's directions.

TILE CARPETING

Package Number: T5
Package Name: Terminal Interiors, M-P-E-FP, AV/IT,
Security, Signage, and Landscape
ACAA Project Number: TBD
Project Manual Volume 3 of 3
Copyright 2020 Gensler

09 68 13 - 7

- B. Adhere all full size, perimeter tiles, and cut tiles, with a full spread of adhesive. Dry fit cut tiles and apply adhesive to tile back after tile has been cut. Use full uncut tiles down the center of corridors and, where necessary, cut perimeter tiles to butt walls.
 - 1. Scribe and cut carpet tile to butt tightly to vertical surfaces, curtain wall bottom sills, 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.
 - a. Do not cut carpet tile against vertical surfaces, curtain wall bottom sills, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings.
 - 2. Cut openings in carpet for electrical outlets, piping and other penetrations. Maintain close tolerances so that edges of carpet will be covered by plates and escutcheons.
 - 3. Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- C. Butt carpet tile tightly together to form seams without gaps or entrapped pile yarns and aligned with adjoining tiles.
- D. Edge Strip Installation: Install edge strip at every location where edge of carpet is exposed to traffic, unless otherwise indicated. Unless otherwise directed by Architect install in single lengths and secure in accordance with manufacturer's directions.
- E. Traffic over adhesive installations shall be restricted until adhesive has properly cured in accordance with the adhesive manufacturers recommendations.

3.4 CLEANING AND PROTECTION

- A. Cleaning: As the carpeting is installed, remove and dispose of all trimmings, excess pieces of carpeting and laying materials from each area as it is completed. Vacuum carpeting with a commercial vacuum, having a cylindrical brush or beater bar and high suction. Remove adhesives, stains, and soil spots in accordance with the carpet manufacturer's recommendations.
- B. Protection: Protect carpeting against damage of every kind as damaged carpeting shall be rejected. Use non-staining cover material for protection. Tape joints of protective covering.
 - 1. Plastic and polyethylene sheet protective coverings shall not be permitted.
 - 2. Remove and replace rejected carpeting with new carpeting. At the completion of the work and when directed by the Architect, remove covering, vacuum clean carpeting and remove soiling and stains (if any) to the satisfaction of the Architect.

END OF SECTION 09 68 13

TILE CARPETING

Package Number: T5

Package Name: Terminal Interiors, M-P-E-FP, AV/IT,
Security, Signage, and Landscape

ACAA Project Number: TBD

Project Manual Volume 3 of 3

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09 68 13 - 8