

SECTION 09 68 10 - CARPETING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes modular carpet tile (modular) and walk-off carpet tile (modular).
- B. Related Requirements:
  - 1. Division 02 Section "Selective Demolition" for removing existing floor coverings.
  - 2. Division 03 Section "Hydraulic Cement Underlayment" for floor leveling underlayment.
  - 3. Division 09 Sections "Resilient Base and Accessories" and "Resilient Tile Flooring" for resilient wall base and accessories installed with carpet.

1.3 UNIT PRICES

- A. Specific work of this section is itemized as Unit Prices on the Bid Form to add or deduct specific units of the work to the project. Unit Price descriptions, requirements and units of work are enumerated in Division 01 Section "Unit Prices". Unit Prices are inclusive of all labor, materials, overhead and profit per unit of work indicated.

1.4 ALTERNATE BIDS

- A. Providing "carpeting" is **not** included in the Base Bid. The Base Bid includes all work for slab preparation, underlayment, etc. for new and existing floor surfaces scheduled to receive carpet. Provide alternate prices for the change in cost to provide the alternate manufacturers products in the space provided on the Bid Form for items of work as scheduled hereinafter, and in accordance with the following requirements.
  - 1. All work to be performed under accepted alternate prices shall conform to the applicable Contract Documents, and shall include all work in connection with or consequent to the alternate price work to produce a complete installation.
  - 2. Alternate prices shall be all inclusive of the cost of materials, work and profit, supervision, administration and any and all other costs in connection therewith for work in place and accepted or omitted as the case may be, and shall hold for the same period as the bid.
  - 3. Coordinate related work and modify or adjust adjacent work as necessary to ensure that work affected by the accepted Alternate is complete and fully integrated into the project. All costs to modify or adjust the adjacent work of other trades for a complete installation shall be included in the Alternate Bid.
  - 4. Refer to Division 01 Section "Alternates" for additional information and requirements for Alternate Bids.

1.5 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. Samples for Initial Selection: For each type of carpet.
  - 1. Provide manufacturer's pattern binder for carpet lines specified.
- C. 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-long Samples.
- D. Product Certification: Provide ANSI/NSF 140 certification for carpet products.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Sample Warranty: For special warranty.

1.7 CLOSEOUT SUBMITTALS

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

1.8 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.

1.9 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
  - 1. Review specification requirements.
  - 2. Review concrete slab moisture content.
  - 3. Confirm specification requirements for floor flatness conform to project requirements on new concrete slabs and review floor leveler installation on existing concrete slabs.

4. Review installation procedures.
5. Review patterns and locations for mockup.
6. Review project schedule.
7. Review floor protection measures to be implemented after installation.

1.10 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified by the International Certified Floorcovering Installers Association at the Master II certification level.
- B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
  1. Build mockups at locations indicated in preinstallation meeting
  2. Architect may select up to three layout patterns for mockup of carpet tile.
  3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.11 DELIVERY, STORAGE, AND HANDLING

- A. Comply with CRI's "CRI Carpet Installation Standard."

1.12 FIELD CONDITIONS

- A. Comply with CRI's "CRI Carpet Installation Standard" for temperature, humidity, and ventilation limitations.
- B. Environmental Limitations: Do not deliver or install carpet 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 over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive and concrete slabs have pH range recommended by carpet manufacturer.
- D. Where demountable partitions or other items are indicated for installation on top of carpet, install carpet before installing these items.

1.13 WARRANTY

- A. Special Warranty for Carpet: Manufacturer agrees to repair or replace components of carpet installation that fail in materials or workmanship within specified warranty period.
  1. Warranty does not include deterioration or failure of carpet 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 CARPET TILE (MODULAR)

- A. Products: Subject to compliance with requirements, the following products shall be incorporated into the project:

1. "Nature's Course," collection carpet tile by Interface – Alternate No. A951
  - a. Pile Construction: Engaged tufted pattern loop
  - b. Face fiber: Aquafil, 100% recycled content Nylon
  - c. Density: 7,448 oz/yd<sup>3</sup>
  - d. Pile Thickness: 0.09 inches
  - e. Yarn Weight: 18 oz/yd<sup>2</sup>
  - f. Backing: GlasBac™
  - g. Size: 9.5 inches x 39.375 inches
2. "Aran," "Self Assembly Collection," carpet tile by Mannington Commercial – Alternate No. A952
  - a. Pile Construction: Tip-sheared patterned loop
  - b. Face fiber: Type 6,6 Nylon
  - c. Density: 6,133 oz/yd<sup>3</sup>
  - d. Pile Thickness: 0.135 inches
  - e. Yarn Weight: 23 oz/yd<sup>2</sup>
  - f. Backing: Infinity® 2 Modular
  - g. Size: 12 inches by 48 inches

### 2.2 WALK-OFF CARPET (MODULAR)

- A. Products: Subject to compliance with requirements, the following products shall be incorporated into the project:

1. "SR999", Step Repeat collection walk-off carpet tiles by Interface – Alternate No. A951
  - a. Pile Construction: Tufted texture loop
  - b. Face fiber: Type 6 Nylon
  - c. Density: 7,654
  - d. Pile Thickness: .127 inches
  - e. Backing: Glas Bac
  - f. Size: 50 cm x 50 cm

2. "Ruffian II", Liaison II Entryway collection walk-off carpet tiles by Mannington – Alternate No. A952

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|----|---------------------|-------------------------|
| a. | Pile Construction:  | Textured patterned loop |
| b. | Face fiber:         | Type 6,6 Nylon          |
| c. | Average Density:    | 8,825                   |
| d. | Pile Thickness:     | .155 inches             |
| e. | Tufted Yarn Weight: | 38 oz/sq. yd.           |
| f. | Backing:            | Infinity RE Modular     |
| g. | Size:               | 24"x24"                 |

2.3 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet manufacturer in accordance with Division 03 Section "Hydraulic Cement Underlayment."
- B. Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and is recommended by carpet manufacturer for releasable installation.
- C. Transition Strips: Resilient material of profile and width shown, of height required to protect exposed edge of carpet, and of maximum lengths to minimize running joints and as indicated in Division 09 Section "Resilient Base and Accessories."

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 performance.
- B. Examine carpet 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., 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. 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 CRI's "Carpet Installation Standards" and with carpet manufacturer's written installation instructions for preparing substrates indicated to receive carpet.
- B. Use trowelable leveling and patching compounds as specified in Division 03 Section "Hydraulic Cement Underlayment", 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.
- C. 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.
- D. Broom and vacuum clean substrates to be covered immediately before installing carpet.

### 3.3 CARPET TILE INSTALLATION

- A. General: Comply with CRI's "CRI 104", Section 10, "Carpet Tile" 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. 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:
  - 1. Remove excess adhesive and other surface blemishes using cleaner recommended by carpet manufacturer.
  - 2. Remove yarns that protrude from carpet surface.
  - 3. Vacuum carpet tile using commercial machine with face-beater element.
- B. Protect installed carpet to comply with CRI's "Carpet Installation Standard," Section 20, "Protecting Indoor Installations."

- C. Protect carpet 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 manufacturer.

END OF SECTION 09 68 10