

PART 1 - GENERAL

1.1 Summary

- .1 Types of items described in this Section:
 - .1 Modular carpet tile.
- .2 Types of items not described in this Section:
 - .1 Selective structure demolition and the removal of existing floor coverings.
 - .2 Sheet carpeting.
- .3 Related Work:
 - .1 Division 09 Section *Resilient Base and Accessories* for resilient base, reducer strips, and other accessories installed with resilient floor coverings.

1.2 Submittals

- .1 Product Data: For each type of product.
 - .1 Include manufacturer's written data on physical characteristics, durability, and fade resistance.
 - .2 Include installation recommendations for each type of substrate.
- .2 Shop Drawings: Show the following:
 - .1 Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet tiles.
 - .2 Carpet tile type, color, and dye lot.
 - .3 Type of subfloor.
 - .4 Type of installation.
 - .5 Pattern of installation.
 - .6 Pattern type, location, and direction.
 - .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.
- .3 Samples: For each of the following products and for each colour and texture required. Label each Sample with manufacturer's name, material description, colour, pattern, and designation indicated

on Drawings and in schedules.

- .1 Carpet Tile: Full-size Sample.
- .2 Exposed Edge, Transition, and other Accessory Stripping: 300 mm long Samples.

- .4 Product Schedule: For carpet tile. Use same designations indicated on Drawings.
- .5 Qualification Data: For Installer.
- .6 Product Test Reports: For carpet tile, for tests performed by a qualified testing agency.
- .7 Sample Warranty: For special warranty.

1.3 Closeout Submittals

- .1 Maintenance Data: For carpet tiles 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 tile.

1.4 Maintenance Material Submittals

- .1 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 8.3 sq. m.

- .2 Warranty: Special warranty specified in this Section.

1.5 Quality Assurance

- .1 Mock-ups: Before installing carpet tile, build mock-ups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - .1 Approved mock-ups may become part of the completed Work if undamaged at time of Substantial Completion.
- .2 Preinstallation Conference: Conduct

conference at Project site.

1.6 Delivery, Storage and Handling

- .1 Comply with CRI 104, Section 5, *Storage and Handling*.

1.7 Project Condition

- .1 Comply with CRI 104, Section 7.2, *Site Conditions; Temperature and Humidity* and Section 7.12, *Ventilation*.
- .2 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.
- .3 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.
- .4 Where demountable partitions or other items are indicated for installation on top of carpet tiles, install carpet tiles before installing these items.

1.8 Warranty

- .1 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 fibre, edge ravelling, snags, runs, loss of tuft bind strength, dimensional stability, excess static discharge, and delamination.
- .3 Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 Carpet Tile

- .1 Refer to drawings: Unless otherwise noted provide tile that complies with the following:
- .1 Primary Backing/Backcoating:

Manufacturer's standard composite materials.

- .2 Size: 457 by 457 mm.
- .3 Applied Soil-Resistance Treatment: Manufacturer's standard material.
- .4 Antimicrobial Treatment: Manufacturer's standard material.
- .5 Emissions: Provide carpet tile that complies with testing and product requirements of CRI's *Green Label Plus* program.

2.2 Installation Accessories

- .1 Trowellable Levelling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet tile manufacturer.
- .2 Adhesives: Water-resistant, mildew-resistant, nonstaining, pressure-sensitive type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet tile and is recommended by carpet tile manufacturer for releasable installation.
 - .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).

PART 3 - EXECUTION

3.1 Examination

- .1 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 tile for type, colour, pattern, and potential defects.
- .2 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 tile.
- .3 Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.

- .3 For painted subfloors, verify the following:
 - .1 Perform bond test recommended in writing by adhesive manufacturer.
- .4 Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 Preparation

- .1 General: Comply with CRI 104, Section 6.2, *Site Conditions; Floor Preparation*, and with carpet tile manufacturer's written installation instructions for preparing substrates indicated to receive carpet tile installation.
- .2 Use trowellable levelling 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 3 mm wide or wider and protrusions more than 0.8 mm unless more stringent requirements are required by manufacturer's written instructions.
- .3 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 tile manufacturer.
- .4 Clean metal substrates of grease, oil, soil and rust, and prime if directed by adhesive manufacturer. Rough sand painted metal surfaces and remove loose paint. Sand aluminium surfaces, to remove metal oxides, immediately before applying adhesive.
- .5 Broom and vacuum clean substrates to be covered immediately before installing

carpet tile.

3.3 Installation

- .1 General: Comply with CRI 104, Section 14, *Carpet Modules*, and with carpet tile manufacturer's written installation instructions.
- .2 Installation Method: Glue down; install every tile with full-spread, releasable, pressure-sensitive adhesive, unless noted otherwise.
- .3 Maintain dye lot integrity. Do not mix dye lots in same area.
- .4 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.
- .5 Extend carpet tile into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- .6 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 non-permanent, nonstaining marking device.
- .7 Install pattern parallel to walls and borders.
- .8 Stagger joints of carpet tiles so carpet tile grid is offset from access flooring panel grid. Do not fill seams of access flooring panels with carpet adhesive; keep seams free of adhesive.

3.4 Cleaning and Protection

- .1 Perform the following operations immediately after installing carpet tile:
 - .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.

- .2 Protect installed carpet tile to comply with CRI 104, Section 16, *Protection of Indoor Installations*.
- .3 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.