

SECTION 09680 - CARPET

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Carpet.
 - 2. Carpet Cushion.
- B. Related Sections include the following:
 - 1. Division 9 Section "Resilient Flooring" for resilient wall base and accessories installed with carpet.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated. Include manufacturer's written data on physical characteristics, durability, and fade resistance. Include installation recommendations for each type of substrate required.
- B. Samples: 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: 12-inch- (300-mm-) square Sample.
- C. Product Schedule: Use same room and product designations indicated on Drawings and in schedules.
- D. Maintenance Data: For carpet to include in maintenance manuals specified in Division 1. 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.
- E. CRI Labels: Provide data or certificates showing the carpet and adhesives meet the requirements of CRI Indoor Air Quality Carpet and Adhesive Testing Programs.
- F. Test Results: Provide results of specified alkalinity and adhesion tests, calcium chloride moisture tests, and relative humidity test for each resilient flooring type specified. Include manufacturer's written moisture requirements for each resilient flooring type specified.
- G. No substitutions.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who is certified by the Floor Covering Installation Board or who can demonstrate compliance with its certification program requirements.

- B. Fire-Test-Response Characteristics: Provide products with the critical radiant flux classification indicated in Part 2, as determined by testing identical products per ASTM E 648 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.
- C. Product Options: Products and manufacturers named in Part 2 establish requirements for product quality in terms of appearance, construction, and performance. Other manufacturers' products comparable in quality to named products and complying with requirements may be considered. Refer to Division 1 Section "Product Requirements."

1.4 DELIVERY, STORAGE, AND HANDLING

- A. General: Comply with CRI 104, Section 5, "Storage and Handling."

1.5 PROJECT CONDITIONS

- A. General: Comply with CRI 104, Section 6.1, "Site Conditions; Temperature and Humidity."
- B. Environmental Limitations: Do not install carpet 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.
- 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.

1.6 WARRANTY

- A. General Warranty: Special warranty specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Special Carpet Warranty: Written warranty, signed by carpet manufacturer agreeing to replace carpet that does not comply with requirements or that fails within specified warranty period. Warranty does not include deterioration or failure of carpet 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, edge raveling, snags, runs, and delamination.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CARPET

- A. C1
 - 1. Manufacturer: Shaw.
 - 2. Product/Style: Portland #60598
 - 3. Color: Bluebird #96400
 - 4. Finish: Factory

5. Surface texture: Multi-level loop pattern
6. Yarn content: 100% eco solution Q (r) Premium branded nylon
7. Dye method: Solution dyed.
8. Machine gauge: 1/10
9. Backing: Synthetic
10. Size: Broadloom 12-foot
11. Warranty: Lifetime Commercial Limited for Broadloom
12. Performance characteristics:
 - a. Pill test: CAN/CGSB-4. 129-93/DOC FF1-70.
 - b. Flooring Radiant Panel: NFPA-253 (ASTM E648) Direct Glue Down Mode – Class 1
 - c. NBS Smoke Chamber: NFPA-258 (ASTM E662) Flaming Mode – 450 or less
 - d. Static Propensity: 3.5 KV or less
13. Environmental characteristics: CRI Green Label, CRI No. GLP9878.

B. C2

1. Manufacturer: Shaw
2. Product/Style: Casco #60597
3. Color: Bluebird 96400
4. Finish: factory
5. Surface texture: Multi-level patterned loop.
6. Dye method: Solution dyed
7. Gauge: 1/12
8. Backing: Synthetic
9. Size: Broadloom 12-foot
10. Warrant: Lifetime Commercial Limited for Broadloom
11. Carpet Pad:
 - a. Rubber Cushion: Tred-Mor pad for extra heavy commercial use with double stick installation.
 - 1) Thickness: ¼ inch
 - 2) Density: 22 lb/cu. ft.
12. Performance Characteristics:
 - a. Delete subparagraph below if not required. Verify requirements of authorities having jurisdiction.
 - b. Pill Test: CAN/CGSB-4.129-93/DOC FF1-70.
 - c. Flooring Radiant Panel: NFPA-253 (ASTM E648) Direct Glue Down Mode Class 1
 - d. NBS Smoke Chamber: NFPA-258 (ASTM E662) Flaming Mode – 450 or less
 - e. Static Propensity: 3.5 KV or less
13. Environmental characteristics: CRI Green Label, CRI No. GLP9878.
14. Bound carpet.

C. C3

1. Manufacturer: Shaw
2. Product/Style: Portland Tile #59449
3. Color: Bluebird 49400
4. Finish: Factory
5. Surface texture: Multi-level loop pattern.
6. Yarn content: 100% eco solution Q ® Premium branded nylon
7. Dye method: Solution dyed
8. Gauge: 1/10

9. Backing: Synthetic
10. Size: Tile
11. Warrant: Lifetime Commercial Limited for Broadloom
12. Performance Characteristics:
 - a. Pill test: CAN/CGSB-4. 129-93/DOC FF1-70.
 - b. Flooring Radiant Panel: NFPA-253 (ASTM E648) Direct Glue Down Mode-Class 1.
 - c. NBS Smoke Chamber: NFPA-258 (ASTM E662) Flaming Mode – 450 or less
 - e. Static Propensity: 3.5 KV or less
13. Environmental characteristics: CRI Green Label, CRI No. GLP9878.

2.2 CARPET PAD

- A. Rubber Cushion: Ted-Mor pad for extra heavy commercial use with double stick installation.
 1. Thickness: $\frac{1}{4}$ inch
 2. Density: 22 lb/cu. ft.

2.3 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided by or recommended by the following:
 1. Carpet manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and that is recommended by the following:
 1. Carpet manufacturer.
- C. Double Stick Adhesive: Use standard adhesive between pad and floor. Use adhesive equal to Parabond DS902 between carpet and pad.
- E. Seaming Cement: Hot-melt adhesive tape or similar product recommended by carpet manufacturer for taping seams and butting cut edges at backing to form secure seams and to prevent pile loss at seams.
 1. Use a solvent based seam sealer with double stick installations. Do not use hot-melt tape.
- F. Primer: Provide products recommended by carpet manufacturer. Provide primer that is compatible with adhesive.
- G. Transition Strips: Refer to Division 9 section “Resilient Tile Flooring”.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance. Verify that substrates and conditions are satisfactory for carpet installation and comply with requirements specified.

- B. 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.
 - 2. Verify that adhesion and dryness characteristics have been determined as required in Division 7 Section "Vapor Retarders, Vapor Barriers, and Air Barriers" and meet flooring manufacturer's recommendations.
 - a. If alkaline content is greater than 9, or is such that it may cause future delaminating of the carpet, per manufacturer's printed instructions, coordinate with General Contractor for the application of carpet manufacturer's recommended primer, adhesives and seam sealers.
 - 3. Subfloor finishes comply with requirements specified in Division 3 Section "Cast-in-Place Concrete" for slabs receiving carpet.
 - 4. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. General: Comply with CRI 104, Section 6.2, "Site Conditions; Floor Preparation," and carpet manufacturer's written installation instructions for preparing substrates indicated to receive carpet installation.
- B. Cut carpet bails open to full length of rolls to allow the carpet to ventilate a minimum of 72 hours prior to installation.
- C. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill minor cracks, holes, and depressions in substrates.
- D. Coordinate with General Contractor for the removal of coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents.
- E. Broom and vacuum clean substrates to be covered immediately before installing carpet. After cleaning, examine substrates for moisture, alkaline salts, carbonation, or dust. Proceed with installation only after unsatisfactory conditions have been corrected.

3.3 INSTALLATION

- A. Direct-Glue-Down Installation: Install carpet in strict accordance with the Carpet and Rug Institute's IAQ (indoor air quality) Installation guidelines as well as with the U.S. Environmental Protection Agency's guidelines. Install carpet in accordance with the recommendations in CRI 104 and the carpet manufacturer's specifications.
- B. Comply with carpet manufacturer's written recommendations for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doorways, center seams under the door in closed position.
- C. Cut and fit carpet 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 manufacturer.

- D. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- E. 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, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
 - 2. Remove yarns that protrude from carpet surface.
 - 3. Vacuum carpet using commercial machine with face-beater element.
- B. Protect installed carpet to comply with CRI 104, Section 15, "Protection of 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.

3.5 BUILDING VENTILATION

- A. Operate the building ventilation systems at maximum outdoor air flow before, during and 72 hours after the new carpet installation. Open windows and/or doors when possible during the carpet installation.

END OF SECTION 09680