

## SECTION 09 68 00

### CARPETING

#### PART 1 GENERAL

##### 1.01 QUALITY ASSURANCE

- A. Standard for Installation of Commercial Carpet as published by the Carpet and Rug Institute (CRI).
- B. Obtain each type of carpet from one source and by a single manufacturer.
- C. Carpet materials shall be from a single dye lot. Visible differences in color or texture shall be grounds for rejection and replacement with new material at the Contractor's expense.

##### 1.02 SUBMITTALS

- A. Manufacturer's test reports
- B. For carpet installations over 500 square yards, or 4500 square feet, 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 stain-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.

##### 1.03 WARRANTY

- A. Provide an extended warranty underwritten by the carpet manufacturer for a minimum period of 15 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 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, yarn 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 materials and workmanship

#### PART 2 PRODUCTS

##### 2.01 ACCEPTABLE PRODUCTS

- A. Welded-Seam Carpet
  1. Tandus/Centiva (Tarkett)
    - a) Acceptable backings: Powerbond
  2. Mannington
    - a) Acceptable backing: Integra HP RE
  3. Bentley Mills
    - a) Acceptable backing: EliteFlex
- B. Walk Off Mats
  1. Rolls goods only
  2. No Modular tile accepted

3. Acceptable Products
  - a) Tandus Abrasive Action
  - b) Mannington Ruffian II (uncut) must be specified

## **2.02 MATERIALS & CONSTRUCTION**

- A. IAQ Requirement: Carpet will be CRI Green Label Plus certified.
- B. Face Yarn
  1. Yarn: 100% Antron Lumena or Legacy preferred.
  2. Minimum face yarn weight: min 14 oz/sy.
  3. Weave: Tufted level loop, tufted multi-level loop, or textured loop.
  4. Gauge: 1/12 inch minimum.
  5. Average pile density: 5,000 oz/sy minimum per ASTM D418-82.
- C. Backing
  1. Primary backing and bonding agent: 100% synthetic (no SBR latex)
  2. Secondary backing (cushion) Minimum 18 pound density with moisture barrier – Urethane or PVC
    - a) Polyvinyl cushion, 18 lb/cu.ft. density, 1/10 inch thickness
    - b) Solid closed cell non-aqueous polymeric vinyl composite
- D. Dimensions: 6' or 12' width roll goods for welded seam carpet.

## **2.03 CARPET ADHESIVES AND ACCESSORIES**

- A. Sub-floor fillers and underlayments shall be materials approved by the carpet manufacturer.
- B. Fillers and underlayments containing gypsum are not acceptable.
- C. Adhesives shall be CRI Green Label Plus certified.
- D. Adhesives shall be non-toxic, low VOC, non-flammable, waterproof, release-type cements as recommended and warranted by the carpet manufacturer for each substrate and installation condition. Mill-applied adhesives are acceptable.
- E. Seam welding materials as recommended by manufacturer.
- F. Other accessory items recommended by the carpet manufacturer for each intended application

## **PART 3 EXECUTION**

### **3.01 PREPARATION**

- A. Environmental and Substrate Conditions: Includes air temperature, floor temperature, moisture content, and alkalinity testing of new concrete substrates.
  1. Testing shall occur both prior to and during installation.
  2. Contractor shall perform tests and shall submit test reports to the Owner and Architect.
  3. Testing shall be made for each 1,000 s.f. of surface area.
  4. Air temperature: Minimum of 5 degrees above dew point.
  5. Floor temperature: Minimum 5 degrees above dew point.
  6. Floor moisture content: Emission rate of not more than 3 lbs/1,000 sq. ft./24 hrs when tested by calcium chloride moisture test in compliance with CRI 104, 6.2.1 with subfloor temperature not less than 55 degrees F.
  7. Floor alkalinity: Minimum 9 pH, maximum 11 pH.
- B. Floor Preparation

1. Inspect and prepare substrates prior to the installation of carpet. Do not proceed with installation until unsatisfactory conditions have been corrected, as it constitutes acceptance of substrate.
2. Level subfloor within ¼” in 10 feet, noncumulative, in all directions. Sand or grind protrusions, bumps, and ridges. Patch and repair cracks and rough areas. Fill depressions, cracks, holes as recommended by manufacturer.
3. Remove adhesives, oil, wax, dirt, and other materials that may affect adhesion of carpet.

### **3.02 INSTALLATION**

- A. Install carpet wall-to-wall, using continuous lengths and broadest widths possible to minimize the placement of seams in traffic lanes.
- B. Cut edges shall be trued and appropriately treated to form invisible and non-raveling joints where exposed.
- C. Provide carpet edge guard at every location where edge of carpet is exposed to traffic, except where another device, such as an expansion joint cover system or threshold, is provided with an integral carpet binder bar.
- D. Chemically weld seams for rolled good products.
- E. No pieces of less than 2' in any dimension shall be installed in corridors and hallways. Pieces of less than 2' in any dimension shall not be used at any location except where such a width is required to complete flooring in excess of full roll widths.
- F. Carpet shall be applied by direct glued-down method. Adhesive shall be applied over the entire field area with a clean, notched trowel. Random adhesive application is not acceptable.
- G. Roll entire field with a 75-lb. steel roller. Roll carpet slowly and carefully in both directions to assure good adhesive transfer. Roll a second time to eliminate bubbles.

### **3.03 FIELD QUALITY CONTROL**

- A. Installed carpet shall be free of spots, dirt or soil, shall be without tears and frayed or pulled tufts, and shall be free of obvious color variations at seams.
- B. Carpet shall be smooth and free of humps or air bubbles between carpet and substrate.
- C. Such defects that cannot be remedied to the satisfaction of the Architect shall be removed and replaced with new materials by the Contractor.

**END OF SECTION 09 68 00**