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SECTION 09 68 00

CARPETING

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**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section Includes: Provide carpeting, both adhesive and tackless (stretched) installations, with accessories, including edge strips where carpeting terminates at other floor finishes, for complete finished installation.
  - 1. Public Areas (Typical): Provide tackless installation with commercial pad.
  - 2. Public Areas (Lobbies): Provide standard adhesive installation.
  - 3. Public Areas (Corridors): Provide double glue down installation.
  - 4. Guest Rooms: Provide tackless installation with residential pad.
- B. Related Sections:
  - 1. Section 09 65 10: Resilient base for carpeted areas.

1.2 SUBMITTALS

- A. Product Data: Furnish manufacturer's literature for carpet and accessories.
- B. Shop Drawings: Clearly indicate location of seams, method of joining seams, carpet pile direction, adhesives to be used, integrating edge strips with carpet, and installation procedures.
- C. Samples: Furnish samples of each type, color and pattern of carpet and edge strip.
- D. Certificate of Compliance: Provide manufacturer's certificate of compliance stating each material delivered conforms to Specifications.
- E. Maintenance Recommendations: Prior to final acceptance of carpet installation, furnish carpet manufacturer's detailed maintenance recommendations for care, cleaning and repair of carpets installed.
- F. Extra Materials: Roll excess carpet on separate rolls for each type and size; label rolls to identify type, width, length, and locations installed.
  - 1. Wrap and deliver unused portions greater than 2'-0" square and more than 12" wide.

1.3 QUALITY ASSURANCE

- A. Sustainability Requirements: Comply with CALGreen requirements including those relative to finish material pollution control for carpet systems, carpet cushion, and adhesives.
- B. Installer Qualifications: Approved by carpet manufacturer; upon request, submit letter from carpet manufacturer stating installer is acceptable.

**1.4 SITE CONDITIONS**

- A. Do not commence carpet installation until painting and finishing work is complete and ceiling and other overhead work has been tested, approved and completed, unless specifically approved.
- B. Maintain room temperature at minimum 60 degrees F for at least 24 hours prior to installation; relative humidity shall be approximately that at which the area is to be maintained.
- C. Schedule, receive and place carpet on floors indicated; protect from soiling and damage during transit, storage, and installation.

**1.5 WARRANTY**

- A. Extended Correction Period: Provide for promptly repairing or replacing carpet which exhibits evidence of defective materials or workmanship.
  - 1. Repairs: Make repairs within ten days of Owner's written notification.
  - 2. Period: Two years.

**PART 2 - PRODUCTS****2.1 SYSTEMS MANUFACTURERS**

- A. Mannington Carpet.
- B. Mohawk Industries including Mohawk, Lees, and Bigelow Carpets.
- C. Shaw Industries Group.
- D. Manufacturers listed on Finish Schedule.
- E. Substitutions: Refer to Section 01 25 00.

**2.2 MATERIALS**

- A. System Description: Provide carpeting with accessories, including edge strips where carpeting terminates at other floor finishes.
- B. Regulatory Requirements, Flammability: Carpet and underlay shall have passed following tests.
  - 1. DOC-FF-1-70: Pass.
  - 2. ASTM E662 (Smoke Density): 450 or less.
  - 3. ASTM E648 or NFPA 253 (Flooring Radiant Panel Test): 0.45 or higher.
- C. Design Criteria: Provide carpet materials that bear Carpet and Rug Institute "Green Label Plus".

- D. Performance Criteria: Carpet shall develop less than 3.0 kilovolts of static at 70 degrees F and 20% relative humidity.
- E. Carpet: Types as indicated on Finish Schedule.
- F. Public Area Underlay: Natural or synthetic fiber cushions recommended for use in commercial applications, complying with Carpet Cushion Council recommendations; mildew resistant.
  - 1. Type: Minimum 32 oz/sy weight, 1/4" to 5/16" thick.
- G. Guest Room Underlay: Bonded urethane foam cushions recommended for Class I moderate traffic, Carpet Cushion Council, mildew resistant.
  - 1. Type: Minimum 5 pcf density, 3/8" thick polyurethane foam with polyester foam content not to exceed 50% and particle size not to exceed 1/2".
- H. Carpet Gripper: Type recommended by carpet manufacturer to suit application, complete with attachment devices.
- I. Standard Adhesives: Nontoxic type recommended by carpet and underlay manufacturers to suit application and expected service.
- J. Double Stick Adhesives: Nontoxic types recommended by carpet and underlay manufacturers to suit application and expected service.
  - 1. Manufacturers:
    - a. Chicago Adhesive Products (800.621.0220)/SS-5, Safe-Set.
    - b. Para-Chem, Inc. (800.763.7272)/Parabond Dubl-Stik DS-902.
    - c. Mapei Corp. (800.426.2734)/ECO 220.
    - d. Substitutions: Refer to Section 01 25 00.
- K. Leveling and Ramping Material: Latex-cement material designed for providing thin solid surface for leveling and minor ramping of subsurface to adjacent floor finishes.
  - 1. Use material capable of being applied and feathered out to adjacent floor without spalling.
- L. Edge Strips: Vinyl or rubber; manufacturer's standard colors as selected.
- M. Accessories: Provide carpet seam adhesives, hot melt tpe, tack strips, and accessories as required for complete finished installation.

### **PART 3 - EXECUTION**

#### **3.1 PREPARATION**

- A. Clean floors of dust, dirt, solvents, oil, grease, paint, plaster and other substances detrimental to proper performance of adhesive and carpet; allow floors to thoroughly dry.

- B. Ensure floors are level, with maximum surface variation of 1/4" in 10 feet.
- C. Ensure concrete floors are free from scaling and irregularities and exhibit neutrality relative to acidity and alkalinity.
- D. Use leveling and ramping material to patch cracks, small holes, leveling and for ramping to provide finished carpet within 1/2" of adjacent flooring materials.
- E. Test substrate for moisture content in accordance with flooring manufacturer recommendations; where moisture content exceeds anufacturer recommendations take measures recommended by flooring manufacturer.

### **3.2 INSTALLATION**

- A. Adhesive Installation (Standard and Double Stick): Prime substrate if required and as recommended by manufacturer; spread adhesive in quantity recommended by manufacturer to ensure proper adhesion over full area of installation.
  - 1. Apply only enough adhesive to permit proper adhesion of carpet before initial set.
- B. Tackless (Stretched) Underlay Installation: Install in accordance with underlay manufacturer recommendations and installation instructions.
  - 1. Install underlay using maximum sized pieces, securely adhered to subfloor; butt edges firmly together, without overlap.
  - 2. Remove air pockets and ridges in underlay and slightly stretch.
  - 3. Butt underlay tightly to carpet gripper and projections, tape joints and seams.
  - 4. Carpet seams shall not fall directly over underlay seams.
- C. Install carpet in accordance with carpet manufacturer recommendations and installation instructions.
  - 1. Check matching of carpet before cutting and ensure there are no visible defects or variations between dye lots.
  - 2. Lay out rolls of carpet for Architect's approval.
- D. Cut carpet, where required, in manner to allow proper seam and pattern match; ensure cuts are straight, true, and unfrayed.
- E. Where possible and practical, locate seams in areas of least amount of traffic; no seams shall be perpendicular to doors or entries; seams parallel to doors shall be centered directly under door.
  - 1. Follow wall line parallel to carpet direction for seams occurring at corridor change of direction.
  - 2. Join seams in recommended manner so as not to detract from appearance of carpet installation and decrease its life expectancy; ensure seams are straight, not overlapped or peaked, and free of gaps.

- F. Adhesive Installation (Standard and Double Stick): Install carpet securely bonded to substrate.
- G. Tackless (Stretched) Installation: Stretch carpet and secure to carpet grippers.
- H. Lay carpet with run of pile in direction of anticipated traffic; do not change run of pile in any one room or from one room to next where continuous through a wall opening.
- I. Cut and fit carpet neatly around projections through floor and to walls and other vertical surfaces.
- J. Fit carpet snugly to walls or other vertical surfaces where no base is scheduled, leaving no gaps.
- K. Do not place heavy objects such as furniture on carpeted surfaces for minimum of 24 hours or until adhesive is set.
- L. Lay installation tight and flat to sub-floor, well fastened, and uniform in appearance; ensure monolithic color, pattern and texture match within any one area.
- M. Edging Strips: Install in accordance with manufacturer recommendations and installation instructions.
  - 1. Install edging strips where carpet terminates at other floor coverings.
  - 2. Use full length pieces only, butt tight to vertical surfaces. Where splicing cannot be avoided, butt ends tight and flush.

### **3.3 CLEANING**

- A. Clean in accordance with manufacturer's recommendations and as specified in Section 01 70 00 – Execution Requirements.

### **END OF SECTION**