

SECTION 09680 - CARPETING

City of San Diego, CWP Guidelines

PART 1 -- GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes carpeting and padding and all appurtenant work, complete.
- B. The area to be carpeted shall include the space indicated and adjacent areas. Adjacent areas shall include closets, areas under movable fixtures, storage areas, and [].

1.2 RELATED SECTIONS

- A. The WORK of the following Section applies to the WORK of this Section. Other Sections of the Specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 03300 Cast-in-Place Structural Concrete
 - 2. Section 09650 Resilient Flooring

1.3 CODES

- A. The WORK of this Section shall comply with the current editions of the following codes as adopted by the City of San Diego Municipal Code:
 - 1. Uniform Building Code

1.4 SPECIFICATIONS AND STANDARDS

- A. Except as otherwise indicated, the current editions of the following apply to the WORK of this Section:
 - 1. Commercial Standards:

Carpet and Rug Institute (CRI)	Standard for Installation of Textile Floor Covering Materials; CRI 140
CRI	Commercial Carpet Maintenance Manual
 - 2. Flammability:

DOC-FF-1-70	Methenamine Pill Test
NFPA 250	Smoke Density Chamber
ASTM E 648	Flooring Radiant Panel Test

1.5 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:

1. Samples: Carpet (minimum of 12 colors), pad, and edge samples.
2. Shop Drawings: Shop drawings showing complete carpet layout with all seam locations, detailed method of seaming, pattern direction of carpet, size and location of fill strips, and location and type of trim at all exposed carpet edges.
3. Product Data: Manufacturer's complete technical product data for each type of carpet, cushion, and accessory item required.
4. Qualifications of Installer: Evidence of qualifications of carpet installer.
5. Certificate of Approval: A dated and signed certificate of approval of the installer by the carpet manufacturer.

1.6 OWNER'S MANUAL

- A. The following shall be included in the OWNER'S MANUAL in compliance with Section 01300:
 1. Manufacturer's literature on care, stain removal, cleaning, repair and maintenance of the carpet.

1.7 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. **Delivery of Materials:** Carpet, padding and accessories shall be delivered in original, unbroken packages, containers, or wrappings, bearing the name of the manufacturer along with identification markings.
- B. **Storage:** Products shall be stored in conformance with referenced standards, with seals and labels intact and legible.
 1. Products which are subject to damage by the elements shall be stored in weathertight enclosures.
 2. Temperature and humidity shall be maintained within the ranges required by referenced standards.
 3. Storage shall be arranged in such a manner to provide easy access for inspection. The CONTRACTOR shall make periodic inspections of stored products to assure that products are maintained under specified conditions, and free from damage or deterioration.

1.8 WARRANTY

- A. Materials and workmanship of carpeting WORK shall be warranted in writing by the CONTRACTOR, installer, and manufacturer for two years following final acceptance by the OWNER. Failure of carpet WORK shall be corrected by repair or replacement at the OWNER'S choice.

PART 2 -- PRODUCTS

2.1 GENERAL

- A. The carpet products shall be in accordance with the manufacturer's published literature and specifications for the products indicated.
- B. The pad and carpeting shall meet or exceed requirements of the following tests:
 - 1. DOC. FF-1-80 (Methenamine Pill Test): Pass
 - 2. NFPA 258 (Smoke Density Chamber): 450 or less
 - 3. ASTM E 648 (Flooring Radiant Panel Test): 0.22 watts/cm²

2.2 PADDING

- A. Pad shall be a non-staining combination hair and jute pad with a moisture-resistant rubberized top and bottom coating. The flame spread shall not exceed 75. Weight of pad shall not be less than 50 ounces per square yard.

2.3 CARPET

- A. The carpet shall conform to the following minimum basic requirements:
 - 1. Construction: Tufted, level loop pile
 - 2. Gauge: [1/10-inch] [1/8-inch]
 - 3. Stitches per inch: [6 minimum with a 0.250-inch pile height] [10 minimum with a 0.230-inch pile height]
 - 4. Pile Height: [0.230] [0.250-inch]
 - 5. Face Yarns: 3-ply (minimum) continuous filament Anso IV HP or Antron III with static protection
 - 6. Face Weight: 26-28 ounce per square yard
 - 7. Primary Back: Polypropylene or woven polypropylene
 - 8. Secondary Back: Stainless jute, or woven polypropylene
 - 9. Total Weight: 56 ounce per square yard minimum
 - 10. Width: 12 feet
 - 11. Color: Patterns, textures, and colors shall be as selected by the CONSTRUCTION MANAGER for the various rooms to be carpeted. Color selection may be different for different areas.
 - 12. Static Control: Carpet shall develop less than 3.5 kilovolts of static at 70 degrees F and 20 percent humidity.
- B. The quality, design, weave, texture, weight, and color range shall be equivalent to the manufacturer's products indicated herein.

2.4 ACCESSORIES

- A. Accessories shall be of a type recommended and approved in writing by the carpet manufacturer.
- B. Stripping shall be of a type that can be attached solidly to the floor base material and hold the carpet tightly in place when stretched. Stripping shall be not less than the following: plywood strips, 1/4-inch thick by 1-1/8-inch wide having two staggered rows of rust resistant 16-gauge conical-tipped steel pins slanted at 60 degree angles, with pins sufficiently high to penetrate and hold carpet warp.
- C. Edging shall be an extruded aluminum, or composite heavy-duty type, and shall be as selected by the CONSTRUCTION MANAGER from submitted samples.
- D. Installation Adhesive: Water-resistant, non-staining type as approved by carpet and cushion manufacturer, and which complies with flammability requirements for specified carpet.
- E. Seaming Cement: Hot melt seaming adhesive or similar product recommended by carpet manufacturer for taping seams and buttering cut edges at backing to form secure seams and prevent pile loss at seams.
- F. Sub-Floor Filler: Premixed latex type developing a minimum cured compressive strength of 2500 psi, mixed with water to produce cementitious paste; brand as recommended by carpet manufacturer.
- G. Miscellaneous Materials: As recommended by manufacturers of carpet, cushion and other carpeting products; and selected by installer to meet product circumstances and requirements.

2.5 MANUFACTURERS

- A. Carpet and padding shall be of the following manufacture and type (or equal):

- 1. Padding:

- Allen Co. "Rubberboc"
 - General Felt Industries Inc. "Rubber-Ease"

- 2. Carpet:

- J.P. Stevens (Gulistan Carpet) "Northfield"
 - Woodcrest Carpet Mills "Pierpoint"

PART 3 -- EXECUTION

3.1 GENERAL

- A. All materials shall be installed by qualified carpet layers under proper supervision of the CONTRACTOR, in strict conformance to the manufacturer's written instructions.
- B. The installer shall examine substrates on which carpeting will be installed and conditions under which WORK will be performed. The CONTRACTOR shall be notified in writing of conditions detrimental to proper installation and maintenance of carpeting. Installer shall not proceed with WORK until unsatisfactory conditions have been corrected in an

acceptable manner. Commencing WORK shall imply acceptance of existing conditions as satisfactory to successful completion of this WORK.

- C. Lighting shall be sufficient for installation operations.

3.2 FLOOR SURFACE PREPARATION

- A. The surface upon or against which carpet is to be installed shall be ready in all respects for the installation of carpet.
- B. Immediately prior to the installation of carpet, the CONTRACTOR shall prepare all sub-flooring to be free of defects, irregularities, droppings, grease, oil, paint, varnish, hardeners, sprinkled cement, plaster, or any material that would interfere with the proper adhesion between the carpet and sub-floor surface. All sub-floors shall be levelled and free of irregularities to assure a smooth floor after carpet is installed. Irregularities shall be leveled by grinding the high spots and filling the defects and low spots with a suitable filling and leveling material for floor patching.
 - 1. A smooth, flat, hard surface shall be obtained through careful application, troweling and floating of filler material. Filler shall be applied to 1/8 inch maximum thickness and allowed to thoroughly cure prior to application of succeeding layers. Latex type filler shall not be installed in excess of 3/8 inch total thickness. All traffic shall be prohibited from the area of application until filler is completely cured.
 - 2. At doors and other locations where carpeting adjoins higher, dissimilar flooring, floated filler material shall be ramped at slopes not to exceed 1:96.
- C. Concrete floors shall be free from scaling and irregularities and test neutral relative to acidity and alkalinity.
- D. Concrete floors shall be free of excess moisture. CONTRACTOR shall use either the watch glass method over three or four day period, by anhydrous chloride crystals, or by hydrometer, modified for floor reading.

3.3 CARPETING INSTALLATION

- A. Prior to installation the CONTRACTOR shall sweep the floor using a non-oil base sweeping compound.
- B. The CONTRACTOR shall install tackless carpet stripping with adhesive or by nailing or both where required for adequate strength.
 - 1. Stripping shall be located properly such that carpet edge can be concealed between stripping and base of wall.
 - 2. Entire perimeter of each carpeted space shall be provided with stripping and, where needed, stripping shall be installed at obstructions and cut-outs.
- C. The carpet shall be installed within the allowable temperature range recommended by the manufacturer.
- D. The padding shall be laid smooth and even under the entire area to be carpeted and shall be placed between edging and stripping. Padding shall be installed using maximum sized pieces. Padding shall be installed such that padding seams occur at 90 degrees to

carpeting seams and that no continuous seam overlaps occur. Metal or composite edging shall be installed at all exposed edges of carpet.

1. Padding shall be securely adhered to the subfloor by methods recommended by the manufacturer.
 2. All air pockets and ridges shall be removed and the padding slightly stretched on the subfloor. Padding shall be securely anchored around projections and contours. Edges of padding shall be butted firmly together and pressed tight to edges of carpet grippers.
 3. Anchorage and bond of padding to substrate shall be increased at ramped floor areas.
- E. The carpeting shall be laid complete with all necessary accessories such as tackless stripping, metal or composite edging, seaming tape, etc.
- F. Layout and seam direction shall conform to the following:
1. All carpet shall be laid in the same direction unless specifically shown otherwise.
 2. No seams shall occur perpendicular to doors or entries or within 18 inches thereof.
 3. Seams occurring parallel to doors shall be centered directly under the door.
- G. All seams shall be installed into a seam (melt-type) tape and be sealed with seam adhesive.
- H. Carpeting shall be stretched drum tight and shall be cut evenly along walls and fit evenly around all projections and into trim strips. It shall also fit closely and evenly to and through thresholds, where the carpet joins together in doorways. Direction of the pile shall be the same.
- I. Carpet shall be provided in sizes to eliminate seams as much as possible. Fill strips, unless otherwise indicated, shall be not less than 36 inches in width and 36 inches in length and made at least 4 feet from doors. Cross seams shall be held to an absolute minimum. All seams and cross seams shall be selvage trimmed and hand sewn or joined by heat tape. All edges and edges at seams shall be bonded against unraveling with seam adhesive. Seams shall be ironed flush and tight so that the joint line is inconspicuous. All fastenings shall be concealed. The finished installation shall be free from tacks, scraps, carpet ripples, scallops, and puckers.
- J. Heavy objects such as furniture shall not be placed on carpeted surfaces for a minimum of 24 hours after installation.

3.4 CLEANING AND PROTECTION

- A. After installation is complete, all dirt, debris, and unusable scraps shall be removed and the carpet shall be cleaned of all spots with an appropriate spot remover. Carpet shall be replaced where spots cannot be removed. All loose threads shall be carefully trimmed with sharp scissors. The entire floor surface shall be carefully and thoroughly vacuumed with an upright beater-bar type vacuum cleaner.
- B. Substantial coverings shall be provided as necessary to protect the installed products from damage from traffic and subsequent construction operations. Protection shall be removed for OWNER'S acceptance.

- C. All unused portions of carpeting and padding greater than 2 feet square or more than 12 inches wide shall be wrapped, labeled and delivered to the CONSTRUCTION MANAGER.

3.5 EXTRA MATERIAL

- A. The CONTRACTOR shall furnish [4] [6] square yards in one piece of each type and color of carpeting for future use. Material shall be wrapped for storage, and shall be marked and delivered where directed by the CONSTRUCTION MANAGER at time of project acceptance.

** END OF SECTION **