

SECTION 09688
CARPET - NON-MODULAR

PART 1 GENERAL

1.1 SECTION INCLUDES:

- A. Carpet placed with glue down method.
- B. Accessories

1.2 REFERENCES

- A. ASTM D2859 - Test Method for Flammability of Finished Textile Floor Covering Materials
- B. ASTM E648 - Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
- C. ASTM E84 - Surface Burning Characteristics of Building Materials
- D. NFPA 253 - Test for Critical Radiant Flux of Floor Covering Systems.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Shop Drawings: Indicate seaming plan, method of joining seams and direction of carpet.
- C. Product Data: Provide data on specified products, describing physical and performance characteristics sizes, patterns, colors available and method of installation.
- D. Samples: Submit two samples 18" x 18" in size illustrating color and pattern for each carpet material specified.
- E. Submit two 12" long samples of edge strip and base gripper for each color specified.
- F. An approved independent testing laboratory shall test carpet, or carpet and pad as an assembly.
 - 1. Provide Owner a copy of test report certifying the class of carpet, or carpet and pad.
 - 2. Manufacturer shall include certification the carpet/pad meet the results and the results shall be no more than two-years old at time of certification.
- G. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention.

1.4 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing specified carpet with minimum 5-years documented experience.
- B. Installer: Company specializing in installing carpet with minimum 5-years documented experience.

1.5 REGULATORY REQUIREMENTS

- A. Conform to applicable code for flame/smoke rating requirements.
- B. Conform to ASTM E648 Class I for flooring radiant panel test.
- C. Conform to ASTM D2859 for surface flammability ignition test.

1.6 ENVIRONMENTAL REQUIREMENTS

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- A. Store materials for three-days prior to installation in area of installation to achieve temperature stability.
- B. Maintain minimum 70°F ambient temperature 1-day prior to, during, and 24 hours after installation of materials.

1.7 MAINTENANCE DATA

1.8 Submit under provisions of Section 01700.

1.9 Maintenance Data: Include maintenance procedures, recommended maintenance materials and suggested schedule for cleaning.

PART 2 PRODUCTS

2.1 MATERIALS

A. Tufted Carpet:

- 1. Pile Fiber 100% continuous filament nylon (Antron with sylgard and anti-static treatment or Zeftron-500 ZX CFN only.

Static Control Fiber	Integral with Pile Fiber
Max. Electrostatic Charge	3.5 KV @ 70 ° and 20 percent R.H.
Pile Height	.187" maximum
Gage	1/8" or 1/10" as tested in ASTM D 418-68
Stitches per Inch	10 minimum (with 1/8" gage) or 8 minimum (with 1/10" gage)
Pile Weight	28 oz/sq yd minimum as tested in ASTM 418
Stitch Count	80 per sq inch minimum
Primary Backing	100% synthetic material
Primary Backing Weight	3.59 oz/sq yd minimum
Secondary Backing	Unitary Pre-coat, sufficient amount to achieve a minimum 18 lb. tuft bind in accordance with ASTM 1335
Total Weight	58 oz/sq minimum
Dye Method	Solution Dyed
Roll Width	12'
Color	As selected from manufacturer's standards.

B. Test and Standards: (Performance Requirements)

- 1. Flammability: Rating of 75 or less (class B per NFPA) by ASTM-E-84, tunnel test. Standard DOC-FF-170 shall be met. This certification shall be provided to the Owner.
- 2. Smoke Density: Specific optical density of 450 or less (flaming) - by NFPA 258.
- 3. Static Control: Peak electrostatic charge of 3.5 KV when tested at 70°F, 20% RH by AISC 135 - 175 (neolite soles) for the life of the carpet.
- 4. Breaking Strength: 150 pounds minimum each direction - by ASTM D-682.
- 5. Radiant Panel - (ASTM E648). Shall meet or exceed 0.22 flammability test for Class II, and 0.45 watts per square centimeter for Class I.
- 6. Methylamine Tablet Test (DOC-FF-1-70) - pass.
- 7. Color Fastness:
 - a. To crocking - color transfer Class 4, minimum, wet and dry by AATCC-8.

- b. To light - color contrast minimum of step 4 on the Gray Scale after the equivalent of 2 L-4 brakes (200 AATCC fading units) for light colors and 3 L-4 brakes (60 AATCC fading units for dark colors; by AATCC-16-B1977 (Xenon Arc).
- c. To ozone - minimum step 3 on Gray Scale after single cycle exposure, by AATCC 129.

2.2 ACCESSORIES

- A. Sub-floor Filler: Portland cement-based latex underlayment; type recommended by the flooring manufacturer.
- B. Adhesive: Recommended by carpet manufacturer.
- C. Edge Strips: Color as selected.
- D. Base Gripper: Type, with special lipped edge, color as selected.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that surfaces are smooth and flat with maximum variation of 1/4" in 10', and are ready to receive work.
- B. Verify concrete floors are dry to maximum moisture content of 7%; and exhibit negative alkalinity, carbonization or dusting, follow manufacturer's instructions.

3.2 PREPARATION

- A. Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler.
- B. Apply, trowel and float filler to leave smooth, flat, hard surface. Prohibit traffic until filler is cured.
- C. Vacuum clean substrate.

3.3 INSTALLATION

- A. Apply carpet and adhesive in accordance with manufacturer's instructions.
- B. Verify carpet match before cutting to ensure minimal variation between dye lots.
- C. Double cut carpet, to allow intended seam and pattern match. Make cuts straight, true, and not frayed.
- D. Locate seams in area of least traffic.
- E. Join seams by hand sewing method. Form seams straight, not overlapped or peaked, and free of gaps.
- F. Lay carpet tight and flat on sub-floor, well fastened at edges, with a uniform appearance. Provide monolithic color, pattern and texture match within any one area.
- G. Do not change run of pile in any room where carpet is continuous through a wall opening into another room. Locate change of color or pattern between rooms under door centerline.
- H. Cut and fit carpet around interruptions.
- I. Bind cut edges where not concealed by edge strips.
- J. Fit carpet tight to intersection with vertical surfaces without gaps.
- K. Where wall bases are scheduled, cut carpet tight to walls. Fit carpet tight to vertical interruptions, leaving no gaps.

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3.4 CLEANING

- A. Clean work under provisions of 01700.
- B. Remove excess adhesive without damage, from floor, base and wall surfaces.
- C. Clean and vacuum carpet surfaces.

3.5 PROTECTION

- A. Installer shall advise the contractor of areas which shall be protected during the construction period, so the carpet shall be in undamaged and unsoiled condition at the time of acceptance. Installer shall recommend the type of non-staining paper cover material that shall be used for protective cover with taped joints.
- B. General Contractor shall be responsible for keeping carpet clean and undamaged following carpet installation and shall pay for removal and replacement (material and labor) for carpet that is soiled, stained, snagged or destroyed at the direction of the Architect and Owner. If dye lots cannot be matched with the replacement carpet, the carpet shall be replaced in the entire room, suite, floor or building that match replacement carpet at the option of the Architect and Owner to guarantee uniform color throughout installation.

END OF SECTION