

SECTION 09 68 13

TILE CARPET

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Modular Carpet placement
- B. Accessories

1.2 REFERENCES

- A. ASTM D2859 – Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials
- B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
- C. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
- D. AATCC – American Association of Textile Chemists and Colorist
- E. NFPA 253 – Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Energy Source
- F. FBC - Florida Building Code

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Shop Drawings: Indicate pattern direction and layout, dimension of carpet area, location of edge strips and seams, and thresholds.
- 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 of each color and pattern.
- 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 and flammability of carpet and backing.
 - 2. Manufacturer shall include certification the carpet/pad meet the results and the results shall be no more than five-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 DELIVERLY, STORAGE, and HANDLING

- A. Deliver, store, and handle materials per the manufacturer's requirements.
- B. Store materials for at least 3-days prior to installation in area of installation to achieve temperature stability

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- C. Maintain minimum 70°F ambient temperature 1-day prior to, during, and 24 hours after installation of materials.

1.7 WARRANTY

- A. Provide written lifetime limited warranty from the carpet manufacturer against pile wear exceeding 10% in any given area.
- B. Static electricity will maintain static below 3.0 KV @ 70°F and 20% relative humidity.
- C. Handle any adjustments during the warranty period within 15 days of written notice.
- D. The backing structure will not delaminate from the face structure nor will there be any shrinkage affecting the performance of the face and backing structure for 15-years.

1.8 MAINTENANCE

- A. Submit under provisions of Section 01 77 00.
- B. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.
- C. Provide 2% of each type, color, and pattern in addition to that required for proper installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Tarkett Powerbond products set the standard of quality for materials.
- B. Use only products manufactured by United States based companies.
 - 1. Tarkett Powerbond
 - 2. Other approved equal.

2.2 MATERIALS

- A. Modular Carpet:
 - 1. Pile Fiber 100% Solution dyed premium branded soil hiding static resistant advanced generation filament nylon.

Format Type	Tile
Compression Deflection	5 min. / 25 max.
Static Control Fiber	Integral with Pile Fiber
Total Thickness	0.385" (9.75 mm), minimum
Max. Electrostatic Charge	3.0 KV @ 70°F and 20% R.H
Pile Height	0.095" (2.35 mm) minimum
Pile Weight	19 oz/sq yd minimum
Primary Backing	100% synthetic material non-woven
Secondary Backing Weight	7992 oz/sq yd, 156 mil (4 mm) thick, min.
Dye Method	100% Solution Dyed
Color	As selected from manufacturer's standards.
- B. Test and Standards: (Performance Requirements) Provide owner with certification of passing
 - 1. Flame Spread Index of 25 or less (class A per NFPA) by ASTM E84
 - 2. Smoke Developed Index of 450 or less - by ASTM E84
 - 3. A peak electrostatic charge of 3.0 KV when tested at 70°F, 20% RH, for the life of the carpet
 - 4. Breaking Strength: 150 pounds minimum each direction
 - 5. Shall meet or exceed 0.45 watts per square centimeter for ASTM E648 Class I
 - 6. Methylamine Tablet Test (ASTM D2859) - pass.
 - 7. Other characteristics:
 - a. Color Fastness to Light (Outdoor) per AATCC TM16.1, 4.0 after 60 hours

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- b. Color Fastness to Ozone per AATCC TM109, 4
- c. Anti-microbial Activity Assessment per AATCC TM174, greater than 95%
- d. Anti-fungal Activity Assessment per AATCC TM174, no growth

2.3 ACCESSORIES

- A. Sub-floor Filler: Portland cement-based latex underlayment; type recommended by the flooring manufacturer.
- B. Adhesive: As 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 ¼" in 10' and no surface deviations of more than 1/16" per linear foot.
- B. Verify concrete floors are dry to maximum moisture content of 5 lbs. (MERV) per ASTM F1869 and PH>9 per ASTM F710.
- C. Concrete floors shall also exhibit negative alkalinity, carbonization or dusting, follow manufacturer's instructions.

3.2 PREPARATION

- A. Remove sub-floor ridges and bumps.
 - 1. 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.
 - 1. Prohibit traffic until filler is cured.
- C. Installer is responsible to ensure the removal of dust, loose material, grease, oil, bond breakers, and other foreign substances before installing carpet.
- D. Follow manufacturer's requirements before installation.

3.3 INSTALLATION

- A. Apply carpet and adhesive in accordance with manufacturer's instructions.
- B. Verify carpet has no distinguishable dye lot variations.
- C. Carpet tile seams shall be free of gaps.
- D. Install carpet edge guards on exposed carpet edges subject to traffic or per the shop drawings.
 - 1. Except if the plans indicate another device, such as a threshold.
- E. Install thresholds as shown on the shop drawings.
- F. Install rubber base per manufacturer's requirements in areas show on plans.
- G. Cut and fit carpet around interruptions.
- H. Fit carpet tight to intersection with vertical surfaces without gaps.
- I. Where wall base is scheduled, cut the carpet tight to walls.
 - 1. Fit carpet tight to vertical interruptions, leaving no gaps.

3.4 CLEANING

- A. Clean work under provisions of section 01 77 00.
- 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.

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1. Installer shall recommend the type of non-staining paper cover material to use as a protective cover with taped joints.
- B. General Contractor is responsible for keeping the carpet clean and undamaged following carpet installation and shall pay for removal and replacement (material and labor) for any soiled, stained, snagged, or destroyed carpet at the direction of the Architect or Owner.
 1. Unmatchable dye lots of the replacement carpet shall be replaced in the entire room, suite, floor or building at the option of the Architect or Owner to guarantee uniform color throughout installation.

END OF SECTION