SECTION 09629

CORK FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Cork tile flooring.

B. Field-applied floor finish.

C. Installation accessories.

1.02 RELATED REQUIREMENTS

A. Section 03300 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors.

B. Section 06200 - Finish Carpentry: Wood wall base.

1.03 REFERENCE STANDARDS

A. ASTM D 2240 - Standard Test Method for Rubber Property--Durometer Hardness.

B. ASTM D 3389 - Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform Abrader).

C. ASTM E 648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.

D. ASTM F 386 - Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces.

E. ASTM F 710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.

F. ASTM F 925 - Standard Test Method for Resistance to Chemicals of Resilient Flooring.

G. ASTM F 970 - Standard Test Method for Static Load Limit.

H. ASTM F 2055 - Standard Test Method for Size and Squareness of Resilient Floor Tile by Dial Gage Method.

I. BAAQMD 8-51 - Bay Area Air Quality Management District Regulation 8, Rule 51, Adhesive and Sealant Products; www.baaqmd.gov.

J. RFCI - Recommended Work Practices for Removal of Resilient Floor Coverings; Resilient Floor Covering Institute.

K. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; www.aqmd.gov.

1.04 SUBMITTALS

A. See Section 01350 - Submittals, for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

C. Test Reports: Show compliance with specified characteristics.

D. Selection Samples: Submit manufacturer's complete set of color samples for Alexander + Hibbs AIA, Inc.'s initial selection.

E. Verification Samples: Submit two samples, full size tile illustrating material, color and pattern.

F. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for refinishing.

G. Maintenance Materials: Furnish the following for County of Orange/OC Public Works' use in maintenance of project.
   1. Extra Flooring Material: Two cartons.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Maintain temperature in storage area between 55 degrees F and 90 degrees F.

B. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Cork Floor Tiles:
   1. Wicanders Cork Comfort Glue Down HPS, Originals Accent #0241003. Contact: Leah Smith, Design Materials; Cell: (949) 378-2342; Email: leah@dmfloors.com.
   2. Substitutions: Refer to Section 01640 - Substitutions and Product Options.

2.02 MATERIALS

A. Cork Floor Tiles: Shall have HPS Nano Bead Technology with a standard 15 year commercial wear warranty, shall be formaldehyde free, and shall be Green Guard certified.
   1. Color and Pattern: As indicated under Article 2.01 A.1 and on drawings.
   2. Face Dimensions: 12 x 24 inches.
   3. Thickness: 1/8 inch, minimum.
   4. Dimensional Tolerances:
      a. Squareness: Not more than 0.005 inch out of square when tested in accordance with ASTM F 2055.
      b. Thickness: Maximum of plus / minus 0.005 inch deviation from specified thickness, when tested in accordance with ASTM F 386.
      c. Length and Width: Maximum of plus / minus 0.016 inch deviation from specified dimensions, when tested in accordance with ASTM F 2055.
   5. Edges: Square.

B. Edge and Transition Strips and Moldings: As indicated on drawings.

2.03 ACCESSORY MATERIALS

A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.

B. Adhesive and Primer: Waterproof; types recommended by flooring manufacturer.
   1. Provide only products having lower volatile organic compound (VOC) content than required by the more stringent of the South Coast Air Quality Management District Rule No.1168.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive flooring.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.

C. Verify that substrate surfaces are dust-free and free of substances that could impair bonding of adhesives.

D. Verify that concrete substrate surfaces are dry enough and ready for flooring installation by testing for moisture emission rate and alkalinity in accordance with ASTM F 710; obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

E. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.

B. Prohibit traffic until filler is cured.

C. Clean substrate.

D. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

3.03 FLOORING INSTALLATION

A. Starting installation constitutes acceptance of sub-floor conditions.

B. Install in accordance with manufacturer's instructions.

C. Mix tile from at least two containers to randomize shade variations when tile is placed.

D. Spread only enough adhesive to permit installation of materials before initial set.

E. Set flooring in place, with tight joints; press with heavy roller to attain full adhesion.

F. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.

G. Install tile in running bond pattern. Do not use less than 1/2 full size tile width at perimeter.

H. In doorways where adjacent floor finish is different, terminate flooring under centerline of door; provide divider strip.

I. At open or exposed edges, where flooring terminates, and where indicated, provide tapered edge strip.
   1. Install metal edge strips before installing flooring; secure with screws.
   2. Install resilient edge strips after installing flooring; secure with adhesive.

J. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

K. Install flooring in recessed floor access covers. Maintain floor pattern.

L. Apply field finish in accordance with finish and flooring manufacturers' instructions and recommendations.

3.04 WALL BASE INSTALLATION

A. Wood base provided under Section 06200 Finish Carpentry.

3.05 CLEANING

A. Clean flooring using methods recommended by manufacturer.

3.06 PROTECTION

A. Prohibit traffic on flooring for 48 hours after installation.

END OF SECTION

SECTION 09650

RESILIENT FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Resilient sheet flooring.

B. Resilient tile flooring.

C. Resilient base.

D. Resilient stair accessories.

E. Installation accessories.

1.02 RELATED REQUIREMENTS

A. Section 03300 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors.

1.03 REFERENCE STANDARDS

A. ASTM E 648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.

B. ASTM F 710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.

C. ASTM F 1066 - Standard Specification for Vinyl Composition Floor Tile.

D. ASTM F 1303 - Standard Specification for Sheet Vinyl Floor Covering with Backing.

E. ASTM F 1344 - Standard Specification for Rubber Floor Tile.

F. ASTM F 1700 - Standard Specification for Solid Vinyl Floor Tile.

G. ASTM F 1861 - Standard Specification for Resilient Wall Base.

H. ASTM F 1913 - Standard Specification for Vinyl Sheet Floor Covering Without Backing.

I. ASTM F 2034 - Standard Specification for Sheet Linoleum Floor Covering.

J. ASTM F 2195 - Standard Specification for Linoleum Floor Tile.

K. CAL (CHPS LEM) - Low-Emitting Materials Product List; California Collaborative for High Performance Schools (CHPS).

L. FS RR-T-650 - Treads, Metallic and Nonmetallic, Skid Resistant; Federal Specifications and Standards.

M. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; National Fire Protection Association.

N. RFCI - Recommended Work Practices for Removal of Resilient Floor Coverings; Resilient Floor Covering Institute.

O. SCAQMD 1168 - South Coast Air Quality Management District Rule No.1168; www.aqmd.gov.

P. SCS (CPD) - SCS Certified Products; Scientific Certification Systems.

1.04 SUBMITTALS

A. See Section 01350 - Submittals, for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

C. Shop Drawings: Indicate seaming plan.

D. Selection Samples: Submit manufacturer's complete set of color samples for Alexander + Hibbs AIA, Inc.'s initial selection.

E. Verification Samples: Submit two samples, illustrating color and pattern for each resilient flooring product specified.

F. Concrete Testing Standard: Submit a copy of ASTM F 710.

G. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of sub-floor is acceptable.

H. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

I. Maintenance Materials: Furnish the following for County of Orange/OC Public Works' use in maintenance of project.
   1. Extra Floor Tile Material: Two cartons.
   2. Extra Wall Base: 50 linear feet of each type and color.
   3. Extra Stair Materials: Quantity equivalent to 2 percent of each type and color.

1.05 WARRANTY

A. Manufacturer's Warranty: Submit manufacturer's standard warranty document.
   1. Warranty Period: Five (5) year limited warranty commencing on Date of Substantial Completion.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Protect roll materials from damage by storing on end.

1.07 FIELD CONDITIONS

A. Maintain temperature in storage area between 55 degrees F and 90 degrees F.

B. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.01 SHEET FLOORING

A. Rubber Sheet Flooring: 100 percent rubber composition, color and pattern through total thickness:
   1. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648 or NFPA 253.
   2. Total Thickness: 0.125 inch minimum.
   3. Sheet Width: 36 inch minimum.
   4. Design: Diamond.
   5. Pattern: Marbleized.
   6. Manufacturers:
      a. Johnsonite, Inc: www.johnsonite.com.
      b. Substitutions: Refer to Section 01640 - Substitutions and Product Options.

2.02 TILE FLOORING

A. Vinyl Composition Tile: Homogeneous, with color extending throughout thickness, and:
   1. Minimum Requirements: Comply with ASTM F 1066, of Class corresponding to type specified.
   2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648.

3. Size: 12 x 12 inch.
4. Thickness: 0.125 inch.
5. Pattern: Solid Point.
6. Manufacturer:
   a. Mannington Mills, Inc; Product Premium Visual Tile: www.mannington.com.
   b. Substitutions: Refer to Section 01640 - Substitutions and Product Options.

2.03 STAIR COVERING

A. Stair Treads: Rubber; full width and depth of stair tread in one piece; tapered thickness; nosing not less than 1-5/8 inch deep.
   1. Minimum Requirements: Comply with FS RR-T-650 requirements corresponding to type specified.
   2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648.
   3. Nominal Thickness: 0.1875 inch.
   4. Nosing: Round.
   5. Style: Contrasting color abrasive grit strips full width.
   6. Color: Marbleized.
   7. Manufacturer:
      a. Johnsonite, Inc: www.johnsonite.com.
      b. Substitutions: Refer to Section 01640 - Substitutions and Product Options.

B. Stair Risers: Full height and width of tread in one piece, matching treads in material and color:
   1. Thickness: 0.125 inch.
   2. Manufacturer:
      a. Johnsonite, Inc: www.johnsonite.com.
      b. Substitutions: Refer to Section 01640 - Substitutions and Product Options.

C. Stair Stringers: Full height in one piece and in maximum available lengths, matching treads in material and color:
   1. Thickness: 0.125 inch.
   2. Pattern: Solid color.
   3. Manufacturer:
      a. Johnsonite, Inc: www.johnsonite.com.
      b. Substitutions: Refer to Section 01640 - Substitutions and Product Options.

2.04 RESILIENT BASE

A. Resilient Base: ASTM F 1861, Type TS rubber, vulcanized thermoset; top set Style B, Cove, and as follows:
   1. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E 648.
   2. Height: 4 inch.
   3. Thickness: 0.125 inch thick.
   4. Finish: Matte.
   5. Length: Roll.
   6. Color: Color as selected from manufacturer's standards and indicated on drawings.
   7. Manufacturer:
      a. Johnsonite, Inc: www.johnsonite.com.
      b. Substitutions: Refer to Section 01640 - Substitutions and Product Options.

2.05 ACCESSORIES

A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.

B. Primers, Adhesives, and Seaming Materials: Waterproof; types recommended by flooring manufacturer.
   1. Provide only products having lower volatile organic compound (VOC) content than required

by the more stringent of the South Coast Air Quality Management District Rule No.1168.

C. Moldings and Edge Strips: Same material as flooring.

D. Filler for Coved Base: Plastic.

E. Sealer and Wax: Types recommended by flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.

C. Verify that concrete sub-floor surfaces are dry enough and ready for resilient flooring installation by testing for moisture emission rate and alkalinity in accordance with ASTM F 710; obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.

D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Remove existing resilient flooring and flooring adhesives; follow the recommendations of RFCI Recommended Work Practices for Removal of Resilient Floor Coverings.

B. Prepare sub-floor surfaces as recommended by flooring and adhesive manufacturers.

C. Remove sub-floor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.

D. Prohibit traffic until filler is cured.

E. Clean substrate.

F. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

3.03 INSTALLATION

A. Starting installation constitutes acceptance of sub-floor conditions.

B. Install in accordance with manufacturer's instructions.

C. Spread only enough adhesive to permit installation of materials before initial set.

D. Fit joints tightly.

E. Set flooring in place, press with heavy roller to attain full adhesion.

F. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.

G. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
   1. Resilient Strips: Attach to substrate using adhesive.

H. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

I. Install flooring in recessed floor access covers, maintaining floor pattern.

J. At movable partitions, install flooring under partitions without interrupting floor pattern.

3.04 SHEET FLOORING

A. Lay flooring with joints and seams parallel to longer room dimensions, to produce minimum number of seams. Lay out seams to avoid widths less than 1/3 of roll width; match patterns carefully at seams.

B. Double cut sheet at seams.

C. Lay flooring with tightly butted seams, without any seam sealer.

3.05 TILE FLOORING

A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless manufacturer's instructions say otherwise.

B. Lay flooring with joints and seams parallel to building lines to produce symmetrical tile pattern.

C. Install tile to square pattern. Allow minimum 1/2 full size tile width at room or area perimeter.

3.06 RESILIENT BASE

A. Fit joints tightly and make vertical. Minimize joints.

B. Miter internal corners. At external corners, 'V' cut back of base strip to 2/3 of its thickness and fold.

C. Install base on solid backing. Bond tightly to wall and floor surfaces.

D. Scribe and fit to door frames and other interruptions.

3.07 STAIR COVERINGS

A. Install stair coverings in one piece for full width and depth of tread.

B. Install stringers configured tightly to stair profile.

C. Adhere over entire surface. Fit accurately and securely.

3.08 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean, seal, and wax in accordance with manufacturer's instructions.

3.09 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION

SECTION 09685

CARPET TILE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Carpet tile.

1.02 RELATED REQUIREMENTS

A. Section 03300 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors.

B. Section 06200 - Finish Carpentry: Topset wood base.

C. Section 09650 - Resilient Flooring: Topset rubber base.

1.03 REFERENCE STANDARDS

A. ASTM D 2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials.

B. ASTM E 648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.

C. ASTM F 710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.

D. CRI 104 - Standard for Installation of Commercial Textile Floorcovering Materials; Carpet and Rug Institute.

E. CRI (GLA) - Green Label Testing Program - Approved Adhesive Products; Carpet and Rug Institute.

F. CRI (GLC) - Green Label Testing Program - Approved Product Categories for Carpet; Carpet and Rug Institute.

G. CRI (GLP) - Green Label Plus Carpet Testing Program - Approved Products; Carpet and Rug Institute.

H. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; National Fire Protection Association.

1.04 SUBMITTALS

A. See Section 01350 - Submittals, for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns, colors available, and method of installation.

C. Samples: Submit two carpet tiles illustrating color and pattern design for each carpet color selected.

D. Submit two, 6 inch long samples of edge strip.

E. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

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

G. Maintenance Materials: Furnish the following for County of Orange/OC Public Works' use in maintenance of project.
   1. Extra Carpet Tiles: Two cartons of each color and pattern installed.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing specified carpet tile with minimum 15 years documented experience.

B. Installer Qualifications: Company specializing in installing carpet approved by manufacturer.

1.06 FIELD CONDITIONS

A. Store materials in area of installation for minimum period of 24 hours prior to installation.

1.07 WARRANTY

A. Provide the following written warranties by carpet manufacturer for a period of not less than 15 years:
   1. Wear: Surface fiber wear shall not be more than 10% by weight in 15 years. (Note: Wear warranty shall not require use of chair pads.)
   2. Static: Static generation at less than 3.0 kV at 70 degrees F, and 20% R.H.
   3. No delamination.
   4. No edge ravel.
   5. No dimensional instability (i.e., shrinkage, curling and doming) which adversely affect the ability of the tile to lay flat.
   6. Mergeability: Carpet that is of the same style/color, but from different dye lots and/or manufacturing dates, may be merged and used interchangeably, both at initial installation and at later selective replacement, to create a continuous carpeted surface with no tile appearing out of place.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturers:
   1. Interface, Inc; Product as the basis for specification: www.interfaceinc.com.
   2. Substitutions: See Section 01640 - Substitutions and Product Options.

2.02 MATERIALS

A. Carpet Tile: As indicated on drawings. Tufted, manufactured in one color dye lot.

B. Modular Carpet Tile Performance Standards. Modular carpet tile shall meet the following performance standards:
   1. Carpet Flammability:
      a. Pill Test (ASTM D2859 or CPSC FF-1-70): Passes
      b. Radiant Panel Test (ASTM E648): $\geq$ 0.45 watts/cm squared, class 1.
   2. Smoke Density (ASTM E662): $\leq$ 450 Flaming Mode.
   3. Dimensional Stability (Aachen Method Din 54318): $\leq$ 0.1% change.
   4. Static Generation at 70 degrees F (AATCC 134 with neolite): $\leq$ 2.5 kV at 20 percent R.H.
   5. Lightfastness (AATCC 16E): 4.0 after 60 hours.
   6. Gas Fade (AATCC 23): 4
   7. Ozone Fade (AATCC 109): 4
   8. Antibacterial (ASTM E 2471-05): C1, C1Z or minimum P1 high for Serratia.
   9. Antifungal (ASTM E2471-05): C1, C1Z or minimum of P1 high rating.
   10. Soil/Stain Protection (AATCC 175-1991): $\geq$ 8.0 on the Red 40 Stain Scale.
   11. CRI Green Label Plus: Passes.

C. Product Specification. Modular carpet tile shall meet the following specifications:
   1. Yarn System: 100% Invista Type 6,6, Solutia Type 6,6 HONEYWELL Type 6 or Aquafil Type 6 Nylon (Note: Bidder may propose yarn with a percent of bio-based material with satisfactory explanation of modification.)
   2. Dye Method: 100% Solution Dyed.
   3. Mergeability: Carpet that is of the same style/color, but from different dye lots and/or

manufacturing dates, may be merged and used interchangeably, both at initial installation and at later selective replacement, to create a continuous carpeted surface with no tile appearing out of place.

4. Construction: Tufted.
5. Patterning: Integrated (topical application or wet patterning not allowed).
6. Texture: Tufted cut pile.
7. Gauge/Stitch: Minimum 1/10.
8. Pile Height: Minimum .1 inch.
9. Pile Weight: 14 ounce/square yard.
10. Primary Backing: Must be non-woven. Woven primary backings not allowed.
11. Secondary Backing: GlasBac RE, containing not less than 39 percent post consumer and/or post industrial material content. Secondary backing must be 100 percent recyclable at the end of its useful life.
12. Soil/Stain Resistance: Application by fiber producer and manufacturer required.
13. Antimicrobial: (AATCC 171 Washed) (ASTM E2471-05). Must receive a minimum of PI (High) rating to pass.
14. Random Installation Method: All products must be designed for random installation, meaning that each and every tile can be installed in any of the four possible directions without regard to pile direction, pattern or orientation of any adjacent tiles while still creating a finished carpet tile assembly that appears to be a visually continuous carpeted surface with no tile appearing out of place or improperly positioned.

D. Related Carpet Materials
1. Leveling Compound: Latex type as recommended by carpet manufacturer. Must be compatible with TacTiles and curing/sealing compound on concrete.
2. TacTiles: Zero glue installation. TacTiles adhere carpet tiles to one another, TacTiles create a floating floor. 90 percent lower environmental footprint than traditional releasable adhesive. Eliminates the issue of VOC's.
3. Carpet Edge Guard, Non-metallic: Extruded or molded heavy duty vinyl or rubber carpet edge guard of size and profile indicated, and with minimum two inch wide anchorage flange; colors selected by architect/designer from among standard colors available within the industry.
4. Miscellaneous Materials: As recommended by manufacturer of carpet. Other carpeting products to be select by installation provider to meet project requirements.
5. Electrostatic (Dissipation low-generation):
   a. Surface Resistivity: Across face of carpet (0.15 to 2000 megaohms).
   b. Transverse or Volume Resistivity: Through face of carpet (0.15 to 2000 megaohms).

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that sub-floor surfaces are smooth and flat within tolerances specified for that type of work and are ready to receive carpet tile.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive carpet tile.

C. Verify that sub-floor surfaces are dust-free and free of substances that could impair bonding of adhesive materials to sub-floor surfaces.

D. Verify that concrete sub-floor surfaces are dry enough and ready for flooring installation by testing for moisture emission rate and alkalinity in accordance with ASTM F 710; obtain instructions if test results are not within limits recommended by carpet tile manufacturer and adhesive materials manufacturer.

E. Verify that required floor-mounted utilities are in correct location.

3.02 INSTALLATION

A. General:
   1. Comply with manufacturer's instructions and recommendations. A "No-Glue Grid" method of installation shall be utilized.
   2. Install carpet under open-bottom obstructions and under removable flanges and furnishings, and into alcoves and closets of each space.
   3. Provide cut outs where required. Conceal cut edges with protective edge guards or overlapping flanges.
   4. Run carpet under open bottom item such as heating convectors and install tight against walls, columns and cabinets so that the entire floor area is covered with carpet. Cover over all floor type door closures.
   5. Install edging guard at all openings and doors wherever carpet terminates, unless indicated otherwise.
   6. Cutting shall be done in accordance with the manufacturer's recommendation, using the tools designated for the carpet being installed.
   7. Use leveling compound where necessary. Any floor filling or leveling shall have a minimum of 4'-0" of feather.
   8. Expansion Joints: Do not bridge building expansion joints with continuous carpeting.

B. Installation:
   1. Install carpet according to carpet manufacturer's printed instructions and in accordance with the Carpet and Rug Institutes Installation Standard.
   2. "Chair Pads" shall not be recommended or required within installation instructions.

3.03 CLEANING AND PROTECTION

A. On completion of the installation in each area, all dirt, carpet scraps, etc. must be removed from the surface of the carpet.

B. Contractor shall protect carpeting against damage during construction.

C. At the completion of the work, vacuum carpet using commercial dual motor vacuum of type recommended by carpet manufacturer. Remove spots and replace carpet where spots cannot be removed. Remove rejected carpeting and replace with new carpeting. Remove any protruding yarns with shears or sharp scissors.

3.04 INSPECTION

A. Upon completion of the installation, verify that work is complete, properly installed and acceptable.

END OF SECTION