# SECTION 09 68 00 CARPETING 10-01-15

Addendum 1 October 9, 2015

#### PART 1 - GENERAL

#### 1.1 DESCRIPTION:

A. Section specifies carpet, edge strips, adhesives, and other items required for complete installation.

# 1.2 RELATED WORK:

- A. Manufacturer, Color and Style of Carpet and Edge Strip: Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Resilient Wall Base: Section 09 65 13, RESILIENT BASE AND ACCESSORIES.

#### 1.3 OUALITY ASSURANCE:

- A. Installer Qualifications: A company specializing in carpet installation with a minimum three (3) years' experience and employing experienced flooring installers who have retained, and currently hold, an INSTALL Certification, or a certification from a comparable certification program, and a valid OSHA 10 certification.
  - 1. Installers to be certified by INSTALL or a comparable certification program with the following minimum criteria:
    - a. US Department of Labor approved four (4) year apprenticeship program, 160 hours a year.
    - b. Career long training.
    - c. Manufacturer endorsed training.
    - d. Fundamental journeyman skills certification.

## 1.4 SUBMITTALS:

A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

# B. Product Data:

- Manufacturer's catalog data and printed documentation stating physical characteristics, durability, resistance to fading and flame resistance characteristics for each type of carpet material and installation accessory.
- 2. Manufacturer's printed installation instructions for the carpet, including preparation of installation substrate, seaming techniques and recommended adhesives and tapes.

# C. Samples:

- 1. Carpet: "Production Quality" samples  $305 \times 305 \text{ mm}$  (12 x 12 inches) of carpets, showing quality, pattern and color specified in Section 09 06 00, SCHEDULE FOR FINISHES.
- 2. Floor Edge Strip (Molding): 152 mm (6 inches) long of each color and type specified.
- 3. Base Edge Strip (Molding): 152 mm (6 inches) long of each color specified.
- D. Shop Drawings: Installers layout plan showing seams and cuts for sheet carpet and carpet module.
- E. Maintenance Data: Carpet manufacturer's maintenance instructions describing recommended type of cleaning equipment and material, spotting and cleaning methods and cleaning cycles.
- F. Installer's Qualifications.
- G. Manufacturer's warranty.

#### 1.5 DELIVERY AND STORAGE:

- A. Deliver carpet in manufacturer's original wrappings and packages clearly labeled with manufacturer's brand name, size, dye lot number and related information. Transport carpet to job site in a manner that prevents damage and distortion that might render it unusable. When bending or folding is unavoidable for delivery purposes, unfold carpet and lay flat immediately.
- B. Deliver adhesives in containers clearly labeled with manufacturer's brand name, number, installation instructions, safety instructions and flash points.
- C. Store in a clean, dry, well-ventilated area, protected from damage and soiling. Before installation, acclimate carpet to the atmospheric conditions of the areas in which it will be installed for 2 days prior to installation

# 1.6 ENVIRONMENTAL REQUIREMENTS:

- A. Maintain areas in which carpeting is to be installed at a temperature between 18 35 degrees C (65 95 degrees F) with a maximum relative humidity of 65 percent for two (2) days before installation, during installation and for three (3) days after installation.
- B. Minimum Substrate Surface Temperature: 18 degrees C (65 degrees F) at time of installation.

C. Three (3) days after installation, maintain minimum temperature of 10 degrees C (50 degrees F) for the duration of the contract.

#### 1.7 WARRANTY:

- A. Construction Warranty: Comply with FAR clause 52.246-21, "Warranty of Construction".
- B. Manufacturer Warranty: Manufacturer shall warranty their carpet for a minimum of ten (10) years from date of installation and final acceptance by the Government. Submit manufacturer warranty.

#### 1.8 APPLICABLE PUBLICATIONS:

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by basic designation only.
- B. American National Standards Institute (ANSI): ANSI/NSF 140-10.....Sustainable Carpet Assessment Standard C. American Association of Textile Chemists and Colorists (AATCC): 16-04......Colorfastness to Light 134-11..... Electric Static Propensity of Carpets 165-08......Colorfastness to Crocking: Textile Floor Coverings-AATCC Crockmeter Method 174-11..... Antimicrobial Activity Assessment of New Carpets D. ASTM International (ASTM): D1335-12......Tuft Bind of Pile Yarn Floor Coverings D3278-96(R2011).........Flash Point of Liquids by Small Scale Closed-Cup Apparatus D5116-10......Determinations of Organic Emissions from Indoor Materials/Products D5252-11.....Operation of the Hexapod Tumble Drum Tester D5417-11.....Operation of the Vettermann Drum Tester E648-14c......Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source E. Code of Federal Regulation (CFR): 40 CFR 59......Determination of Volatile Matter Content, Water Content, Density Volume Solids, and Weight Solids of Surface Coating
- G. International Standards and Italining Alliance (Instant

- H. International Organization for Standardization (ISO):
   2551-81......Machine-Made Textile Floor Coverings
- I. U.S. Consumer Product and Safety Commission (CPSC):
   16 CFR 1630.....Surface Flammability of Carpets and Rugs

#### PART 2 - PRODUCTS

#### 2.1 CARPET:

- A. Physical Characteristics:
  - Carpet free of visual blemishes, streaks, poorly dyed areas, fuzzing of pile yarn, spots or stains and other physical and manufacturing defects.
  - 2. Type:
    - a. Carpet Construction To match existing clinic standard.
    - b. Carpet Type: Modular tile 610 by 610 mm square 24 by 24 inch square with 0.15 percent growth/shrink rate in accordance with ISO 2551.
    - c. Pile Type: To match existing clinic standard. Pile type and thickness must conform to ADA requirements.
    - d. Pile Fiber: Commercial 100 percent branded (federally registered trademark), nylon continuous filament.
  - 3. Static Control: Provide static control to permanently regulate static buildup to less than 3.5 kV when tested at 20 percent relative humidity and 21 degrees C (70 degrees F) in accordance with AATCC 134.
  - 4. Backing Materials: Provide backing for release adhesive for modular tile installations. For healthcare installations, provide impervious moisture backing that is 100 percent PVC free.
    - a. Modular Tile:
      - 1) Primary Backing/Backcoating: Manufacturer's standard composite materials.
      - 2) Secondary Backing: Manufacturer's standard material.
  - 5. Appearance Retention Rating (ARR): Carpet to be tested and have the minimum 3.5 4.0 severe ARR when tested in accordance with either the ASTM D5252 (Hexapod) or ASTM D5417 (Vettermann) test methods using the number of cycles for short and long term tests as specified in the ASTM standard.
  - 6. Tuft Bind: Comply with ASTM D1335 for tuft bind force required to pull a tuft or loop free from carpet backing with a minimum 36 N (8 pound) average force for modular carpet tile.

- 7. Colorfastness to Crocking: Dry and wet crocking and water bleed, comply with AATCC 165 Color Transference Chart for colors, minimum class 4 rating.
- 8. Colorfastness to Light (AATCC 16, Option 3): Color change between the exposed and unexposed carpet areas equivalent to a minimum of Grade 4 on the Gray Scale for Color Change after an exposure of 40 AFU (AATCC fading units) for all specified colors.
- 9. Delamination Strength: Minimum of 440 N/m (2.5 lb./inch) between secondary backing.
- 10. Flammability and Critical Radiant Flux Requirements:
  - a. Comply with 16 CFR 1630.
  - b. Test Carpet in accordance with ASTM E648.
  - c. Class I: Minimum critical radiant flux of 0.45 watts per square centimeter (2.9 watts per square inch).
  - d. Carpet in corridors, exits and Medical Facilities to be Class I.
- 11. Average Pile Yarn Density (APYD):
  - a. Corridors, lobbies, entrances, common areas or multipurpose rooms, open offices, waiting areas and dining areas: Minimum APYD 6000.
  - b. Other areas: Minimum APYD 4000.
- 12. Antimicrobial: Nontoxic antimicrobial treatment in accordance with AATCC 174 Part I (qualitative), guaranteed by the carpet manufacturer to last the life of the carpet.
- 13. VOC Limits: Use carpet that complies with the following limits for VOC content when tested according to ASTM D5116:
  - a. Carpet, Total VOCs: 0.5 mg/sq.m x hr.
  - b. Carpet, 4-PC (4-Phenylcyclohexene): 0.05 mg/sq.m x hr.
  - c. Carpet, Formaldehyde: 0.05 mg/sg.m x hr.
  - d. Carpet, Styrene: 0.4 mg/sq.m x hr.

## 2.2 ADHESIVE AND CONCRETE PRIMER:

A. Provide water resistant, mildew resistant, nonflammable, and nonstaining adhesives and concrete primers for carpet installation. Provide release adhesive for modular tile carpet as recommended by the carpet manufacturer. Provide adhesives flashpoint of minimum 60 degrees C (140 degrees F) in accordance with ASTM D3278. Materials are to have a VOC maximum of 50 g/L when calculated according to 40 CFR 59, (EPA Method 24).

# 2.3 SEAMING TAPE:

A. Provide tape for seams as recommended by the carpet manufacturer for the type of seam used in installation. Seam sealant is to have a maximum VOC content of 50 g/L when calculated according to 40 CFR 59, (EPA Method 24). Do not use sealants that contain 1,1,1-trichloroethane or toluene.

### 2.4 EDGE STRIPS (MOLDING):

# A. Metal:

- 1. Hammered surface aluminum, pinless, clamp down type designed for the carpet being installed.
- 2. Floor flange not less than 38 mm (1-1/2 inches) wide, face not less than 16 mm (5/8 inch) wide.
- 3. Finish: Clear anodic coating unless specified otherwise in Section 09 06 00, SCHEDULE FOR FINISHES.

### PART 3 - EXECUTION

#### 3.1 SURFACE PREPARATION:

A. Contractor to prepare and test surfaces to receive carpet and adhesives as per Section 09 05 16, SUBSURFACE PREPARATION FOR FLOOR FINISHES.

# 3.2 GENERAL INSTALLATION:

- A. Isolate area of installation from rest of building.
- B. Perform all work by manufacturer's approved installers. Conduct installation in accordance with the manufacturer's printed instructions and CRI CIS.
- C. Protect edges of carpet meeting hard surface flooring with molding and install in accordance with the molding manufacturer's printed instructions.
- D. Follow ventilation, personal protection, and other safety precautions recommended by the adhesive manufacturer. Continue ventilation during installation and for at least three (3) days following installation.
- E. Do not permit traffic or movement of furniture or equipment in carpeted area for 24 hours after installation.
- F. Complete other work which would damage the carpet prior to installation of carpet.
- G. Follow carpet manufacturer's recommendations for matching pattern and texture directions.
- H. Cut openings in carpet where required for installing equipment, pipes, outlets, and penetrations. Bind or seal cut edge of sheet carpet. Use

additional adhesive to secure carpets around pipes and other vertical projections.

# 3.3 MODULAR TILE INSTALLATION:

- A. Install per CRI CIS, Adhesive Application.
- B. Lay carpet modules with pile in same direction unless specified otherwise in Section 09 06 00, SCHEDULE FOR FINISHES.
- C. Install carpet modules so that cleaning methods and solutions do not cause dislocation of modules.
- D. Lay carpet modules uniformly to provide tight flush joints free from movement when subject to traffic.

# 3.4 EDGE STRIPS INSTALLATION

- A. Install edge strips over exposed carpet edges adjacent to uncarpeted finish flooring.
- B. Anchor metal strips to floor with suitable fasteners. Apply adhesive to edge strips, insert carpet into lip and press it down over carpet.

#### 3.5 PROTECTION AND CLEANING:

- A. Once a carpet installation is complete, clean up scrap materials and debris, and vacuum the area, using manufacturer-approved equipment.

  Inspect seams carefully for evenness and protruding backing yarns, and inspect the perimeter of the installation for an acceptable finished appearance.
- B. Protect installed carpet if furniture is being moved, by laying plywood, fiberboard or porous non-staining sheeting material for minimum time practical. Based on manufacturer guidelines, protect carpet from rolling or foot traffic. Protect against other materials or renovation or construction activities, including dust, debris, paint, contractor traffic, until it is ready for its final use.
- C. Do not move furniture or equipment on unprotected carpeted surfaces.
- D. Just before final acceptance of work, remove protection and vacuum carpet clean.

- - - E N D - - -

VA248-15-R-2022 A00005 Renovate Laboratory & Radiology Departments Viera VA Outpatient Clinic, Viera, FL

This Page Left Intentionally Blank