

# CARPET

## PART 1 - GENERAL

### 1.1 SUMMARY:

1.1.1 Section I includes: Carpet including accessories.

1.1.2 Related Documents: The Conditions of the Contract and Division 1 apply to this section as fully as if repeated herein.

### 1.2 REFERENCES:

The editions of the specifications and standards referenced herein, published by the following organizations, apply to the work only to the extent specified by the reference

American Association of Textile Chemists and Colorists (AATCC)  
American Society for Testing and Materials (ASTM)

### 1.3 SUBMITTALS:

1.3.1 Shop Drawings: Submit shop drawings showing layout and seaming diagrams. Indicate pile or pattern direction and locations and types of moldings and edge strips.

1.3.2 Product Data: Submit for each type of carpet material and installation accessory required. Submit written data on physical characteristics, durability, resistance to fading, and flame resistance characteristics.

#### 1.3.3 Samples:

1.3.3.1 Carpet: Submit minimum 12 by 18 inch samples of each type of carpet showing full range of color, texture, and pattern variations expected. Prepare samples from same materials to be used for the project.

1.3.3.2 Carpet tiles: Full size Sample.

1.3.3.3 Accessories: Submit 12 inch long samples of each type of exposed edge stripping and accessory item.

1.3.4 Certificates of Compliance: Submit certified test report or other evidence that carpets meet the tuft bind, static control and flammability properties specified herein.

1.3.5 Maintenance Manual: Submit manual of carpet manufacturer's complete recommendations for the care, cleaning and maintenance of carpet.

### 1.4 DELIVERY, STORAGE, AND HANDLING:

Deliver carpet materials in original mill protective wrapping with mill register numbers and tags attached. Store inside, in well ventilated area, protected from weather, moisture and soiling. Store rolls flat, not standing on end. Maintain minimum temperature of 68 degrees F at least 3 days before and during installation in area where materials are stored.

## 1.5 WARRANTY:

In addition to the guarantee requirements of the General Conditions, manufacturer provides a Lifetime Limited Commercial Warranty for wear, static edge ravel, delamination, and tuft bind.

## PART 2 - PRODUCTS

### 2.1 CARPETS: Broadloom Color: Socrates II, Augustine 00401

2.1.1 Manufacturers: Acceptable product, equal:  
Patcraft Flooring, Socrates II BL 10068,  
Shaw Commercial, Camden Harbor II with Staloc backing  
Shaw Contract, Scholar II with Ultraloc MP backing

#### 2.1.2 Textured Loop Carpet Construction:

2.1.2.1 Face Construction: Textured Loop.

2.1.2.2 Face Fiber: 100 percent Eco Solution Q nylon, or equal.

2.1.2.3 Gauge: 1/8 inch.

2.1.2.4 Stitches: 7 per inch min.

2.1.2.5 Pile Thickness: 0.156 to 0.218 inch.

2.1.2.6 Surface Pile Weight: 26 ounces per square yard minimum.

2.1.2.7 Density: 5778 ounces per yard 3

2.1.2.8 Dye System: Yarn Solution Dyed.

2.1.2.9 Backing Structure: Ultraloc Pattern

2.1.2.10 Secondary Backing:

2.1.2.11 Static Control: Incorporate a permanent static control system to limit static build-up to less than 3kv when tested in accordance with AATCC134 at 20 percent relative humidity and 70 degrees F.

2.1.2.12 Flame Spread: Critical radiant flux of not less than 0.45 watts/cm<sup>2</sup> when tested in accordance with ASTM E 648-96

2.1.2.13 Tuft Bind: Not less than 20 pounds when tested in accordance with ASTM D 1335-67(1972).

#### 2.1.2.A Carpet Tiles: Color: Infinite Wisdom, Solution, 00425

A. Pile Characteristics: Multi-Level Pattern Loop pile.

B. Fiber Content: Eco Nylon - 100 percent trilobal, minimum 24 denier per filament (DPF) nylon 6. Fiber must contain a minimum of 45 percent recycled content (20 percent pre consumer recycled content and 25 percent post-consumer recycled content.)

- C. Fiber Name: Eco Solution Q Nylon
- D. Dye Method: 100 percent Solution Dye
- E. Gauge: 1/12
- F. Stitches: 9.5 per inch
- G. Pile Thickness: .095” for finished carpet tile[ according to ASTM D 6859].
- H. Surface Pile Weight: 17 oz./sq. yd.
- I. Density: 6442 **oz./cu. yd.**
- J. Primary Backing: Nonwoven synthetic.
- K. Secondary Backing: High performance precoat laminated to a proprietary thermoplastic polyolefin compound with a fiberglass reinforced layer. Backing must contain a minimum of 40 percent recycled content and be SCS NSF 140 Platinum certified. Backing should be recyclable, PVC free, free of 4-PCH, brominated flame retardants, and phthalate plastizers.
  - 1. Total Backing Weight: Not to exceed **80 oz./sq yd (339.1 g/sq m).**
- L. Backing System: EcoWorx.
- M. Applied Soil-Resistance Treatment: SSP Shaw Soil Protection.
- N. Total Weight: 89 **oz./sq. yd.** for finished carpet tile.
- O. Size: **24 by 24 inches**
- P. Texture Appearance Retention Rating (T.A.R.R.):
  - 1. Texture Appearance Retention Rating (T.A.R.R.): Heavy Traffic

### 2.1.3 Carpet Colors:

2.1.3.1 Bradloom, Patcraft- Socrates II, BL 10068, Augustine 00401

Carpet Tile: Patcraft- Infinite Wisdom, Solution

2.1.3.2 Furnish each type and color of carpet from one factory run and one dye lot with each color and shade guaranteed to be uniform throughout the entire run.

## 2.2 CARPET ACCESSORIES:

2.2.1 Carpet Edge Guard: Extruded or molded heavy duty vinyl or rubber; minimum 2 inch wide anchorage flange; color as selected by the District from manufacturer's standard colors.

2.2.2 Seaming Cement: Hot-melt adhesive tape or similar product recommended by carpet manufacturer for taping seams and butting cut edges at backing to form secure seams and to prevent pile loss at seams.

- 2.2.3 Carpet Adhesive: Water-resistant, and non-staining, and nonflammable type as furnished or recommended by the carpet manufacturer to be compatible with adhesives used in backing.
- 2.2.4 Floor Transitions: Transition from tile to carpet: and from resilient flooring to carpet.  
Acceptable Product:  
  
Mercer Imperial Reducer

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION:**

- 3.1.1 Substrate: Inspect subfloor surfaces before start of work. Do not start work until deficiencies or other conditions that would adversely affect performance, installation or quality of the carpet installation have been corrected. Start of work of this section constitutes acceptance of floor surfaces.
- 3.1.2 Materials: Unroll all goods to verify uniformity, quality, color and texture against the approved samples before installation. Bring discrepancies to the attention of the District. The delivered goods shall match the approved sample unless a written order has been issued by the District.
- 3.1.3 Dimensions: Before start of carpet installation, check critical dimensions of spaces to be carpeted.

#### **3.2 PREPARATION:**

- 3.2.1 Do not install carpet over concrete with excessive moisture or dust producing surface which is not adequately sealed.
- 3.2.2 Remove debris, cementitious deposits and similar obstructions on substrates to receive carpet. Fill cracks and voids but do not obstruct expansion joints.
- 3.2.3 Immediately before installation of carpet, clean surfaces to be carpeted by vacuum cleaning.

#### **3.3 INSTALLATION:**

- 3.3.1 General: Comply with carpet manufacturer's instructions and recommendations. Place seams as indicated on shop drawings. Locate seams at doorways at centerline of doors in closed position. Maintain direction of pattern and texture.
  - 3.3.1.1 Extend carpet under open-bottomed and raised bottom obstructions and under removable flanges of obstructions. Extend carpet into closets and alcoves of rooms indicated to be carpeted, unless otherwise scheduled.
  - 3.3.1.2 Provide cutouts for removable access devices in substrate, bind edges neatly.
  - 3.3.1.3 Carpeting shall be tight, smooth, and perfect at completion of installation.
- 3.3.2 Direct Glue Down Installation:

- 3.3.2.1 Install carpet in accordance with the manufacturer's recommendations for the use of hot melt tape seaming technique and for proper amount of stretch in width and length. No patching or small pieces will be permitted. Cut carpet and fit tightly to wall, obstructions, comers, pipes and fittings.
- 3.3.2.2 Apply primer to entire substrate where necessary for adequate bond of carpet.
- 3.3.2.3 Fit sections of carpet into each room or space before application of adhesive. Trim off mill edges unless carpet has been pretrimmed. Maintain straight seams.
- 3.3.2.4 Apply seaming cement on cut edges of carpet at seams, securing base of pile at cut.
- 3.3.2.5 Apply adhesive uniformly to substrate in accordance with manufacturer's instructions. Butt carpet edges tightly together to form seams without gaps. Roll lightly to eliminate air pockets and ensure uniform total area bond of carpet to substrate.
- 3.3.3 At locations where carpet abuts resilient flooring and concrete floors, install molding as specified. Install in accordance with the manufacturers instructions.
- 3.3.4 At locations where carpet abuts ceramic tile, roll the edges.
- 3.4 CLEANING AND PROTECTION:
  - 3.4.1 Cleaning: After installation, remove all debris, moldings, scraps, and other foreign matter. Remove soiled spots or adhesive from the face of the carpet with the appropriate Spot remover. Clip protruding face yarn with sharp scissors. Vacuum the carpet clean.
- 3.5 Extra Material
  - 3.5.1 Carpet Remnants: Package and identify usable scrap and overage of 3 square yards or larger in size. Deliver to the Owner to be stored for future patching.
  - 3.5.2 Provide additional 5% of each type, color, and pattern of Carpet Tile furnished; product to be boxed. Deliver to the Owner to be stored for "attic stock".

END OF SECTION

## RESILIENT FLOORING

**PART 1 – GENERAL** Color: Letterpress, Collection Name: Typography, 00530 Script  
Vinyl flooring: 86673 Shadow Grey

### 1.1 SUMMARY

1.1.1 Section Includes: Vinyl composition tile and sheet vinyl flooring, complete with wall base, edge trim, and other accessories.

1.1.2 Related Documents: The Conditions of the Contract and Division 1 apply to this section as fully as if repeated herein.

### 1.2 REFERENCES:

The editions of standards and specifications published by the following organizations, and referenced herein, apply to the work only to the extent specified by the reference.

American Society for Testing and Materials (ASTM)  
General Services Administration Federal Specifications (Fed. Spec.)

### 1.3 SUBMITTALS:

1.3.1 Samples: Submit samples of vinyl composition tile, sheet vinyl flooring, wall base, and edge trim, showing color and pattern of each material. Do not purchase materials until the samples have been reviewed.

1.3.2 Manufacturer's Installation Procedures: Submit a current copy of the flooring manufacturer's recommended standard installation procedure for each type of flooring material.

1.3.3 Manufacturer's Maintenance Instructions: Submit to the Owner, a current copy of the flooring manufacturers printed recommendations for maintenance methods and products for each type of flooring material.

### 1.4 DELIVERY, STORAGE, AND HANDLING:

Deliver materials to the site in the manufacturers original unopened containers clearly labeled with manufacturer's name, brand designation and production run number. Store materials at a minimum temperature of 70 degrees F for at least 48 hours before work is started.

### 1.5 PROJECT CONDITIONS:

1.5.1 Maintain spaces in which flooring is to be installed between 70 degrees F and 90 degrees F for at least 48 hours before, during, and 48 hours after, installation.

1.5.2 Provide adequate ventilation to remove moisture and fumes from the area.

## 1.6 EXTRA MATERIALS:

Furnish an additional one percent of each different flooring and base furnished on the project to the Owner for repair purposes. Include the cost of this material in the contract price. Select tile from the same run number as the tile installed. Identify materials as to location used.

## PART 2 - PRODUCTS

### 2.1 MATERIALS:

2.1.1 Vinyl Composition Tile: ASTM F 1066-87, Composition 1, 12" by 12" by 1/8" thick, with uniform design and color throughout the thickness of the tile. Provide all tile in any one room from the same manufacturer's run. Colors and patterns as selected by the District from the manufacturer's standard colors and patterns. Acceptable products, or equal:

Armstrong World Industries, Inc.; Excelon Imperial  
Azrock Industries Inc.; Premier

2.1.2 Sheet Vinyl Flooring: Provide one of the following at the Contractor's option:

2.1.2.1 Filled Sheet Vinyl Flooring: Fed. Spec. L-F-475A (2), Grade A, Type II, 0.085 inch thick, with uniform design and color throughout the thickness of the sheet. Colors and patterns as selected by the District from the manufacturer's standard colors and patterns. Acceptable products, or equal:

Armstrong World Industries, Inc.; Classic Corlon Series  
(No known equal)

2.1.2.2 Translucent- or Transparent-surfaced Sheet Vinyl Flooring: Fed. Spec. L-F-001641, Type III, Class 1, 0.090 inch thick, with minimum 0.020 inch thick transparent or translucent wear layer. Colors and patterns as selected by the District from the manufacturer's standard colors and patterns. Acceptable products, or equal:

Congoleum Corp.; Floever  
Mannington Mills, Inc.; Architect's Choice  
Tarkett, Inc.; Contractfloor

2.1.3 Base: Fed. Spec. SS-W-40A, Type I (Rubber), topset (cove) and carpet (straight) base, 4 inches high. Colors as selected by the District from the manufacturer's standard colors and patterns. Provide premolded base units at external and internal comers.

2.1.4 Edging Strips: Molded vinyl, 1-1/2" by 1/8" thick, tapered, meeting the requirements of Fed. Spec. SS-T-312B, Type II, colors as selected by the District from manufacturer's standard to match flooring.

- 2.1.5 Adhesives and Primers: Products specified or recommended by the manufacturer of the particular resilient flooring furnished. cutback type adhesives where required by manufacturer of flooring.
- 2.1.6 Floor Patch and Leveling Compound: Products manufactured specifically for the purpose as recommended by the manufacturer of the particular resilient flooring furnished.
- 2.1.6.1 Where floors require extensive leveling or repair necessitating several thicknesses of leveling compound, use one of the following products, or equal:
- Industrial Products, Inc.; Vi-Tex Leveling Compound  
Armstrong Floor Div.; Underlayment S-180
- 2.1.7 Moisture Vapor Dispersant: Acceptable product, or equal:
- American Pacific Associates; Sealflex

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION:**

Before installing resilient flooring or base, examine substrates to ensure that they are dry, clean of paint spots, oil, grease, wax, and bond-breaking or curing compounds. Subsurface shall also be free from trowel marks, pits, dents, or other unusual roughness and sharp edges that would cause protrusions and bulges after resilient material is laid. Examination shall include bond moisture and alkali testing of concrete subfloors. Correct defective surfaces or conditions preventing proper execution of the work. Starting of work without such correction will be considered acceptance by the Contractor of the surface involved.

#### **3.2 SURFACE PREPARATION:**

- 3.2.1 Before application of resilient flooring, test floor slab using the calcium chloride crystal test. If slab has a moisture vapor emission in excess of 3.0 pounds per 1000 square feet in a 24 hour exposure period, apply a moisture vapor dispersant to top of slab.
- 3.2.2 Fill minor joints, cracks, or depressions in concrete slabs and subfloors with floor patch. Where floors require extensive leveling or repair necessitating several thicknesses, use leveling compound. Allow 24 hours drying time for leveling compound before applying resilient flooring.
- 3.2.3 Do not begin installation until work of other trades in the area, including painting, has been completed.



### 3.3 INSTALLATION:

#### 3.3.1 Vinyl Composition Tile:

- 3.3.1.1 Layout center lines in both directions of room parallel to walls. Adjust to make cut tile borders of equal width on opposite sides. Lay tile with all joints aligned and without contrasting borders. Lay all tile with grain running in the same direction, except as otherwise directed.
- 3.3.1.2 Apply adhesive with a notched steel trowel to ensure an even bed of adhesive for the tile. Cross trowel to achieve an even thickness.
- 3.3.1.3 Lay tile when adhesive has set tacky, starting at the center of the room and working toward walls. Embed each tile in adhesive with closely fitted, straight, hairline joints. Do not cut tile except at walls or obstructions. Neatly scribe around pipes, fixtures, and equipment to form tight joints free of gaps. Finished floors shall be smooth and free from buckles, cracks, breaks, waves, and projecting edges and shall fit neatly at pipes and other installations and obstructions. Remove all excess adhesive.
- 3.3.1.4 Install edging strips wherever tile terminates at an opening or where there is an unprotected edge. Top of strips shall be flush with top of tile.

#### 3.3.2 Sheet Vinyl Flooring:

- 3.3.2.1 Sheet vinyl flooring shall be installed using the installation method recommended by the flooring manufacturer for the type of flooring and the substrate conditions indicated.
  - 3.3.2.2 Layout sheet vinyl flooring to insure minimum number of seams. Prepare seams in accordance with the manufacturers instructions for the most inconspicuous appearance, sealing continuously with fluid applied sealant or adhesive as standard with the manufacturer. Neatly scribe around pipes, fixtures, and equipment to form tight joints free of gaps.
  - 3.3.2.3 Integral Vinyl Base: Install fillet strip to form perfect cove at base. Extend sheet vinyl up walls to height indicated. Trim top edge of base with metal binding strip. Install metal end stops where required. Extend sheet vinyl up toe space of cabinets in same manner specified for walls.
- 3.3.3 Topset or Carpet Bases: Install base on all walls as indicated and on fronts, toe space, and backs of finished cabinets with adhesive recommended by manufacturer of base. Apply adhesive to both wall and base and press firmly into place. Maintain top edge at true horizontal line. Toe of coved base shall contact floor for entire length. Closely butt end joints, top edge, and faces flush. Remove excess adhesive. Install one piece molded corners at both inside and outside corners; do not cut standard base to obtain job base built comers.

### 3.4 CLEANING, SEALING AND PROTECTION:

- 3.4.1 Until floors are well seated, at least 72 hours, at a maintained temperature of not less than 70 degrees F. keep traffic to an absolute minimum, and under no conditions allow fixtures, equipment, trucks, or similar heavy traffic.
- 3.4.2 Cleaning and Sealing: Just before fuming building over to the Owner, clean resilient flooring and base thoroughly in accordance with the manufacturer's recommendations. After cleaning, apply one coat of approved nonskid finish to vinyl composition tile floors and polish with a mechanical buffer.
- 3.4.3 For the entire period between installation of resilient flooring and acceptance of the Work by the Owner, protect of floors from damage using methods recommended by the flooring manufacturer.

End of Section

**RESINOUS FLOORING - EPOXY****PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Trowel applied monolithic epoxy flooring for kitchen and food processing use.
- B. Perimeter edging and integral 6 inch cove base.

**1.02 REFERENCES**

- A. ASTM D2240 - Test Method for Rubber Property - Durometer Hardness.
- B. NFPA 101 - Life Safety Code.

**1.03 REGULATORY REQUIREMENTS**

- A. Conform to NFPA 101: Minimum 0.22 watts per cm for Class 11, Interior Floor Finish.

**1.04 PERFORMANCE REQUIREMENTS**

- A. Install flooring to conform to the following:
  - 1. Slip Resistance: Dry leather, .37.
  - 2. Surface Hardness: ASTM D2240 (Durometer) Scale "D" 70.
  - 3. Chemical resistance per manufacturers tables.

**1.05 QUALIFICATIONS**

- A. Applicator: Company specializing in epoxy flooring applications with five years experience and approved by the materials manufacturer.

**1.06 SUBMITTALS**

- A. Submit product data under provisions of Article 31 of the Contract Specifications.
- B. Submit three samples illustrating color and variation.
- C. Submit manufacturer's installation instructions under provisions of Article 31.

**1.07 OPERATION AND MAINTENANCE DATA**

- A. Submit cleaning and maintenance data.
- B. Include procedures for stain removal, repairing surface and cleaning.

**1.08 DELIVERY, STORAGE AND HANDLING**

- A. Deliver materials in unopened containers, factory mixed and packaged.
- B. Store materials in a dry, secure area.

**1.09 ENVIRONMENTAL REQUIREMENTS**

- A. Do not install flooring when temperature is below 60 degrees F or above 90 degrees F.
- B. Maintain this temperature range, 24 hours before, during and 72 hours after installation of flooring.
- C. Restrict traffic from area where flooring is being installed or is curing.

**1.10 WARRANTY**

- A. Provide three year warranty.
- B. Warranty: Include coverage against flooring delamination from substrate and degradation of surface finish.

**1.11 CURING**

- A. Concrete surfaces shall be cured and dry. Prior to application.
- B. Commencement of work indicates acceptance of conditions.

**PART 2 PRODUCTS****2.01 MANUFACTURERS**

- A. Crossfield Products Corp., Compton, CA. Product: DEX-O-TEX CHEMINERT "H" FLOORING.
- B. Or equal.

**2.02 MATERIALS**

- A. Coating: Two component, epoxy resin, pigmented, color as selected by District.
- B. Aggregate: Fine-graded, chemical resistant.
- C. Sealer Coat: Improves cleanability and chemical resistance. Color to match basecoat.

**PART 3 EXECUTION****3.01 EXAMINATION**

- A. Verify that surfaces are ready to receive work, that subfloor surface is clean, dry and free of substances which could affect bond. Verify surfaces are free of depressions, crevices, loose fasteners or protrusions.
- B. Beginning of installation means acceptance of existing surfaces.

**3.02 PROTECTION**

- A. Protect elements surrounding the work of this Section from damage or disfigurement.

**3.03 PREPARATION**

- A. Clean substrate surface free of laitence, grease, and other foreign matter.
- B. Sandblasting, bead-blasting, or acid etch are approved cleaning methods.

**3.04 INSTALLATION - FLOORING**

- A. Mix components according to manufacturer's recommendations.
- B. Apply bonding coat by trowel or brush. Trowel apply 3/16 -1 /4 inch body coat.
- C. Apply minimum two coats. Power sand to remove trowel marks. Roller apply final-finish dressing in texture selected.
- D. Base Application: Apply vertical areas with same materials. Height of base application: 6 inches, including cove, unless otherwise indicated. Mask off base to provide a straight, neat, level top edge.
- E. Apply sealer coat per manufacturers instructions.

**3.05 PROTECTION**

- A. Protect finished installation from traffic until curing is complete.