

# **Section 0965XX**

## **RESILIENT FLOORING**

### **PART 1 – GENERAL INFORMATION**

#### **1.01 SUMMARY**

- A. This section deals with resilient flooring found in the drawings and schedules of the contract that meet the requirements of this section.

#### **1.02 RELATED SECTIONS**

- A. Section 3 – Cement: not covered in this section.
- B. Section 6 – Wood and plastic: not covered in this section.
- C. Section 7 – Thermal and humidity protection: not covered in this section.
- D. Section 9 – Other sections containing information related to floor finishes: not covered in this section.

#### **1.03 REFERENCES (INDUSTRY STANDARDS)**

- A. ASTM F 710: Practice for Preparing Concrete Floors to Receive Resilient Flooring.
- B. ASTM 648: Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.
- C. ASTM E 662: Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
- D. ASTM F 1869: Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- E. ASTM F 2170: Determining Relative Humidity in Concrete Floor Slabs Using in Situ Probes.

#### **1.04 ITEMS TO DELIVER**

- A. Provide the product's Technical Specifications data sheet as well as all Installation and Maintenance Instructions.
- B. When required, supply floor drawings and installation plans.
- C. Supply a set of samples measuring at least 7.5 cm (3 in.) by 15 cm (6 in.) of the complete range of colors and finishes chosen for the project.
- D. When required, provide Avion Commercial Flooring's attestation, certified by an independent laboratory, confirming that the flooring complies with the fire standards of the following tests:
  - 1. ASTM E 648; Critical Radiant Flux: 0.45 watts/cm<sup>2</sup> or more;
  - 2. ASTM E 662; Smoke Density: 450 or less.
- E. Provide Avion Commercial Flooring's Warranty Certificate.

## 1.05 QUALITY ASSURANCE

- A. Have Avion Commercial Flooring flooring installed by a qualified installer of this type of flooring.
- B. In accordance with the technical instructions in the Installation Instructions, use all the accessories recommended by Avion Commercial Flooring when installing its flooring.
- C. Follow the instructions specified in the most recent version of Avion Commercial Flooring's Installation Instructions.

## 1.06 DELIVERY, HANDLING, STORAGE

- A. Deliver the flooring to the installation site in Avion Commercial Flooring's original packaging. Indicate the project name and handling instructions on the outside of the boxes.
- B. Advise the carrier of any damaged material and indicate it on the packing slip.
- C. Store the flooring inside, sheltered from extreme hot or cold temperatures. Place the material on a smooth level floor or where there is uniform solid support in a clean, dry well-ventilated area. Unstack the palettes. The long-term storage temperature must be maintained between 18°C (65°F) and 24°C (75°F). Protect adhesive from freezing and extreme heat.
- D. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before, during and after the installation by maintaining the room temperature between 18°C (65°F) and 24°C (75°F).
- E. Afterwards, maintain the room temperature between 18°C (65°F) and 29°C (85°F). Protect the material from direct sources of heat such as air vents and other types of heaters.
- F. Do not install on cement slabs unless they are thoroughly cleaned, level, structurally sound and free from paint, varnish, adhesive, oil, grease, solvent, sealer, curing compounds or other foreign substances that may adversely affect adhesion.
- G. Install the flooring after all other finishing work, including painting, have been completed.

## PART 2 - PRODUCTS

### 2.01 MANUFACTURER

- A. Avion Commercial Flooring  
P.O. Box 1083  
2732 Highway 74 West  
Wadesboro, NC 28170  
Telephone: 855-248-8434  
Internet: [www.avionflooring.com](http://www.avionflooring.com)

### 2.02 RESILIENT FLOORING DESCRIPTION

- A. Characteristics:
  - 1. Luxury Vinyl Tile: Creek Street, Boulevard, Mill Street, Avenue, Multiflor 6, Multiflor 12.

2. Nominal thickness: 3.00 mm (0.118 in). 3.2 mm, 2.0 mm.
3. Sizes: 457 mm x 457 mm (18 in. x 18 in.), 101 mm x 915 mm (4 in. x 36 in.), 152 mm x 1,120 mm (6 in. x 36 in.), 178 mm x 1,220 mm (7 in x 48 in) depending on the model selected.
4. Complies with ASTM F 1700, Class III, type A or B.
5. Refer to the product's Technical Specifications data sheet for detailed specifications.
6. Choose from any of Avion Commercial Flooring's complete line of colors (indicate the item number).
7. The LVT program has FloorScore certification.
8. This product was manufactured in a factory that has ISO 9001 certification.

## 2.03 ADHESIVES

- A. Use Stauf ???. Its cover ? sq. m/ 3.8 liters (? sq. ft./gallon) when applied with the recommended notched trowel.

## 2.04 OTHER MATERIAL

- A. Subfloor repairs: use a good-quality Portland cement-based compound modified with latex that has a minimal resistance to compression of 246 kg/cm<sup>2</sup> (3 500 lbs/sq. in.) to fill, smooth or level subfloor imperfections.
- B. Self-levelling underlayment: use a Portland cement-based self-levelling underlayment modified with a polymer that has a minimal resistance to compression of 246 kg/cm<sup>2</sup> (3,500 lbs/sq. in.).

# PART 3 – EXECUTION

## 3.01 SITE INSPECTION

- A. Examine the subfloor before installation to ensure that the surface is clean, dry, smooth, structurally sound and free from foreign substances that may adversely affect adhesion or cause discoloration. Furthermore, ensure that the subfloor is free of paint, varnish, adhesive, oil, grease, solvent and other foreign substances, including treatment compounds and demolding products, sealers and curing compounds that may adversely affect adhesion or alter the appearance or durability of the vinyl flooring.
- B. Verify the surface to ensure there is no powder, scaling or mold. If there is, remove it with a mechanical sander and level with a good-quality cement-based Portland primer.
- C. Never remove residual or other adhesive with chemical adhesive removal products; their use will automatically void the manufacturer's guarantee.
- D. Report and rectify all unsatisfactory conditions. Do not start flooring installation until all rectifications have been completed.

## 3.02 SUBFLOOR PREPARATION

- A. Level all rough surfaces and fill cracks and marks with a Portland cement-based patching compound modified with latex.
- B. Mechanically remove all surface contaminants such as paint, oil, grease, varnish, adhesive and well as various other products such as treatment compounds and demolding products.

- C. Measure the humidity and pH levels in the cement in compliance with the following standards before installation:
  - 1. ASTM F 1869, Anhydrous Calcium Chloride test for Moisture levels. The maximum allowable reading is 5 lbs/1,000 sq. ft./24 hours (2.26 kg/92.9 sq. m/24 hours) for both adhesives.
    - 5 lbs/1,000 sq. ft./24 hours (2.26 kg/92.9 sq. m/24 hours) for the PS-30 and AD-530SF adhesives;
  - 2. ASTM F 2170, Relative Humidity (RH) test using in situ probes. The maximum allowable reading is 75% RH for the PS-30 and 80% RH for the AD-530SF.
  - 3. ASTM F 710, pH levels (test procedure 5.3.1). The readings should be between 8 and 10;
  - 4. The ASTM test frequency recommendation is 3 measures for the first 1,000 sq. ft. (92.9 sq. m) and one measure for each additional 1,000 sq. ft. (92.9 sq. m).
- D. Ensure Moisture, Relative Humidity and pH tests have all been conducted and measures meet manufacturer's recommendations.
- E. In case of doubt, test the adhesion on the cement subfloor or other surface that will be covered by the flooring. Do the test using the specified flooring and recommended adhesive.

### 3.03 RESILIENT FLOORING INSTALLATION

- A. Install the flooring according to the latest version of Avion Commercial Flooring's Installation Instructions. Use the tools, adhesives, trowel types and procedures recommended in the instructions.
- B. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before, during and after the installation by maintaining the room temperature between 18°C (65°F) and 24°C (75°F). Afterwards, maintain the temperature between 18°C (65°F) and 29°C (85°F).

### 3.04 CLEANING AND PROTECTION

- A. Remove all excess adhesive immediately after installation as recommended in Avion Commercial Flooring's Installation Instructions.
- B. Before allowing traffic after installation, consult and follow the recommendations in Avion Commercial Flooring's Installation Instructions.
- C. Following installation and cleanup, if the work of all other trades has not yet been completed, protect the flooring by laying sheets of brown Kraft paper and then a layer of plywood sheets.
- D. Follow the instructions in Avion Commercial Flooring's Maintenance Instructions when performing initial and regular maintenance procedures.

END OF SECTION 0965XX