

UPOFLOOR XPRESSIONS RESILIENT PVC-FREE PLANK AND TILE FLOORING

PART 1- GENERAL

1.1 SUMMARY

- A. Work of this section consists of polyolefin based resilient plank printed pattern tile flooring and accessories including, but not limited to:
 - 1. UPOFLOOR Xpressions PVC-Free Plank& Tile Flooring
 - 2. Adhesive
 - 3. Floor Finish Options
 - 4. Accessories: tools, equipment, and all other items necessary for a complete installation.
- B. Related Documents and Sections: Examine Contract Documents for requirements that directly affect or are affected by Work of this Section including GENERAL AND SUPPLEMENTARY CONDITIONS, DIVISION 01- GENERAL REQUIREMENTS sections, and affected technical sections.

1.2 SUBMITTALS

- A. Product Data in accordance with DIVISION 01: Submit manufacturer's printed descriptions of materials, components and systems, performance criteria, use limitations, recommendations, installation information and the following:
- B. Shop Drawings in accordance with DIVISION 01: Submit keyed location plans, plans indicating tile type, layout, pattern direction, edge transitions, columns, doorways, enclosing partitions, built-in-furniture, cabinets, cutouts, expansion and control joints, and attachment requirements.
- C. Samples in accordance with DIVISION 01: Submit printed color charts or material chain for initial Selection: and three (3) full size tile samples for Final Selection.
- D. Quality Assurance Submittals in accordance with DIVISION 01: Test and Evaluation Reports, and Qualification Statements.

- E. Sustainable Design (USGBC LEED) Submittals: Submit the following in accordance with the LEED Requirements in DIVISION 01
 - 1. LEED Credit MR, Materials & Resources. Submit completed LEED 2009-NC v.3 Submittal Templates and other required paperwork as follows:
 - a. MR Credit 2: Recycled Construction Waste Management
 - 1) 1 Point: 50% Recycled or salvaged construction waste diverted from landfill
 - 2) 2 Points: 75% Recycled or salvaged construction waste diverted from landfill
 - 3) Submit construction waste management plan to achieve these goals
 - b. MR Credit 4- Recycled Content: Floor covering 100% postconsumer recycled content + 50% of preconsumer content, listed separately.
 - 1) 1 Point: 10% Recycled Content
 - 2) 2 Points: 20% or more Recycled Content
 - 3) Submit product data indicating percentage by weight of recycled content with a statement indicating costs for each.
 - 2. LEED Credit IEQ. Indoor Environmental Quality, Submit completed LEED 2009-NC v.3 Submittal Templates and required paperwork as follows:
 - a. IEQ Credit 4- Low Emitting Materials: Adhesive, Flooring, and Floor Coating Finish
 - 1). IEQ Credit 4.1- Adhesives and Sealants: Adhesive to comply with California's South Coast Air Quality Management District (SCAQMD) Rule 1168 (≤ 50 g/l) and aerosol adhesive to comply with Green Seal GS-36 (web spray = $\leq 55\%$ VOCs by weight).
 - 2). IEQ Credit 4.2- Paints and Coatings: Floor coatings to comply with SCAQMD Rule 1113 requirements.

- 3). IEQ Credit 4.3- Resilient Flooring Systems: FloorScore certified; OR test data indicating that flooring does NOT exceed chemical VOC and HAP chronic inhalation reference exposure levels (REL's) according to the Standard Practice For the Testing of Volatile Organic Emissions From Various Sources Using Small-Scale Environmental Chambers, including 2004 addenda prepared by the California Dept. of Health Services Section 01350.
- F. Closeout Submittals in accordance with DIVISION 01: Operation & Maintenance Data, Executed Warranty Documentation, and Record Documents.

NOTE: Edit LEED Requirements below to suit project.

1. Sustainable Design Closeout Documentation: Submit completed USGBC LEED Submittal Worksheet Templates for the following credits:
 - a. MR Credit 2, MR Credit 4
 - b. IEQ Credit 4.1, IEQ Credit 4.2, IEQ Credit 4.3

NOTE: Edit percentage below to suit scope of project.

- G. Maintenance Material Submittals: Extra Materials: Submit no less than five (5) percent additional full and unopened cartons of each type and pattern of tile used.

1.3 QUALITY ASSURANCE

- A. Regulatory Requirements: Class I Critical Radiant Flux Classification in accordance with ASTM E648 or NFPA 253; and 450 or less Smoke Density in accordance with ASTM E662 or NFPA 258.
- B. Qualifications:
 1. ISO Certified Manufacturer
 2. Installer with a minimum five (5) years of successful in-service performance and experience with installations of similar size and scope. Provide 3 recent project references.
 3. Testing Agency meeting ISO/IEC Standard 17025, or ASTM E699 and ASTM E329
 4. Dr Schutz High Definition & Performance Wearlayer: Provide proof that Coating Applicator has completed flooring finish manufacturer training in application of the specified product.
- C. Source Limitations: Obtain primary resilient flooring system materials through one source from a single manufacturer, and secondary materials from source recommended by manufacturer of primary materials.

NOTE: Edit sustainability standards and certifications below to suit project.

- D. Sustainability Standards and Certifications:
 1. Adhesive and Sealant VOC Limits: According to South Coast Air Quality Management District Rule 1168 and GS-36 for aerosols.
 2. VOC Limits: As tested using U.S. EPA Reference Test Method 24 and in accordance with (per) SCAQMD Rule 1113, SCAQMD Rule 1168, BAAQMD Regulation 8, Rule 51 and California Air Resources Board (CARB).
- E. Field Samples in accordance with DIVISION 01: Provide field samples, dry laid, to demonstrate aesthetic effects of materials in situ, assisting the Architect and Owner in making final selections.
- F. Mock-Up in accordance with DIVISION 01: Construct flooring mock-up as indicated by the Drawings utilizing final specified and approved submittal materials demonstrating the anticipated range of materials, workmanship and finish expected.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Delivery, Storage and Handling in accordance with recommended industry guidelines, product manufacturer guidelines, and DIVISION 01 requirements.

1.5 FIELD CONDITIONS

A. Conditions and Measurements: Visit jobsite to verify installation conditions and measurements.

1. Environmental Conditions shall be in accordance with manufacturer's recommendations for each system component, and DIVISION 01 requirements.

1.6 WARRANTY

A. Floor Covering Material Warranty: Provide manufacturer's non-prorated **fifteen (15)** year limited warranty to be free from defects in material and workmanship, under normal use and service, to repair or replace all defective tile flooring including reasonable labor, beginning on the date of Substantial Completion.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Floor Covering Manufacturer List: Subject to compliance with requirements, provide products by the following:

1. UPOFLOOR Xpressions PVC-Free Flooring;

Manufacturer: **UPOFLOOR**
 P.O. Box 8
 37101 Nokia, Finland
 Tel. +358 207 409 600
 Fax +358 207 409 736

NOTE: Equals or equivalents may not be required and desired, edit following paragraph to suit project.

2. Substitution Limitations: Manufacturers of equivalent products beyond those listed above shall be considered when submitted in accordance with DIVISION 01, using CSI Substitution Request Form 1.5C (During the Bidding Phase) or Form 13.1 (After the Bidding Phase.)

B. Product Options

1. Flooring Type:

- a. UPOFLOOR Xpressions Plank Tile: Interior Floor Finish Class I per NFPA 101
2. Adhesive: UPOFLOOR 5900 Premium Resilient Adhesive Hi-Shear Adhesive
3. Adhesive:UPOFLOOR 5300 Pressure Sensitive Resilient Pressure Sensitive Adhesive
4. Adhesive: UPOFLOOR 200 Spray Adhesive
5. Floor Finish Options:
 - a. No Wax
 - b. Conventional acrylic
 - c. Dr Schutz Hi Definition & Performance Wearlayer

6. Accessories
 - a. Concrete Moisture Sealer: Hurry Up!
 - b. Cutback and Adhesive Residue Encapsulator: Cover Up!
 - c. Underlayment leveling compound per SECTION 035416
 - d. Expansion joints per SECTIONS 079200 and 079513
 - e. Cleaning products

2.2 DESCRIPTION

- A. UPOFLOOR Xpressions flooring products are a Class III, solid PVC-Free made from Polyolefin ionomers and inorganic fillers materials formed under heat and pressure, printed with a pattern, and cut to create resilient tile and plank flooring in a variety of colors and patterns.
- B. Sustainability Characteristics

NOTE: Coordinate and edit below to the correct LEEDTM Version and Rating selected.

1. USGBC LEEDTM Rating: Comply with project requirements intended to achieve a LEED 2009-NC v.3 Rating, as measured and documented according to the USGBC LEEDTM Green Building Rating System.

- 2 .A. **UPOFLOOR 5300 (Stix 5300 base product)**

Applicable LEED Credits: IEQ Credit 4.1, IEQ Credit 4.3, IEQ Credit 5
Green Label Plus California Section 01350 Compliant per SCAQMD Rule #1168
XL Stix 5300 is FloorScore® certified.

- B. **UPOFLOOR 5900 (Stix 5900 base product)**

Applicable LEED Credits: IEQ Credit 4.1, IEQ Credit 4.3, IEQ Credit 5
Green Label Plus California Section 01350
Compliant per SCAQMD Rule #1168
XL Stix 5900 is FloorScore® Certified

- C. **UPOFLOOR 200 (Stix Essential RES Aerosol base product)**

Applicable LEED Credits: IEQ Credit 4.1, IEQ Credit 4.3, IEQ Credit 5
Green Label Plus California Section 01350
Compliant per SCAQMD Rule #1168
XL Stix Essential RES is FloorScore® certified.

- 2.2 a). UPOFLOOR Xpressions PVC-Free Flooring: FloorScore® Certified under certificate SCS-FS-02256.

2.3 MATERIALS

- A. UPOFLOOR Xpressions Plank Tile in accordance with ASTM F1700: Class: III, printed film tile
 1. Composition: PVC-Free formulated from Polyolefin with printed film pattern Construction.
 2. Surface: Type B, Embossed
 3. Thickness: 0.080 inch (2.0mm)
 4. Edge: Unbeveled
 5. Size: 4 x 36 x 0.080 inches (102mm x 914mm x 2.0mm)
 6. Color and Pattern: As selected by Architect from Manufacturer's standard collection.

2.4 ACCESSORIES

- A. Leveling and Patching Compound: Trowelable or pourable (self-leveling) latex-modified, Portland cement based formulation approved by floor covering / adhesive manufacturer for applications indicated. Provided under DIVISION 03.

NOTE: Specifier to closely coordinate applicable sections between concrete and other subfloor substrate finishes with floor finish covering.

- B. Expansion Joints: As indicated by the Drawings, and provided by DIVISION 07

NOTE: Select one of the following adhesive types, deleting that not chosen.

Adhesive - **UPOFLOOR 5300 is an acrylic pressure sensitive adhesive** with extremely aggressive tack, formulated to provide high shear and peel strength for installing luxury tile (LT), plank, tile and sheet flooring and vinyl composition tile (VCT). UPOFLOOR 5300 forms a secure plasticizer and moisture-resistant bond to most types of vinyl flooring. This high solids adhesive is also non-staining and contains MicroSept™ antimicrobial system for enhanced resistance to mold and mildew.

C. Adhesive - **UPOFLOOR 5900 Premium Resilient Adhesive** is a solvent-free acrylic-based adhesive formulated with high bond strength and shear resistance for installing UPO PVC-Free and Quartz Flooring. **UPOFLOOR 5900** has low odor for installations in health care facilities, schools, and homes, and is made with MicroSept™ broad spectrum antimicrobial to improve mold and fungal resistance.

D. Adhesive – **UPOFLOOR 200 Resilient Formula Aerosol Spray Adhesive** is a water-based aerosol adhesive is recommended for installations of resilient floor coverings. It is particularly convenient since it can be used in occupied buildings and greatly reduces the handling and application requirements associated with conventional adhesives. UPOFLOOR 200 Adhesive demonstrates highly aggressive grab and shear strength, and has outstanding water and plasticizer resistance.

E. Alternate Adhesive – Epoxy or Urethane: 2-part reactive low solvent or solvent-free, low odor, flooring heavy-duty epoxy/urethane adhesive as recommended for flooring installations under heavy static loads (hospital beds), areas that are subject to top down water, freezer cases, and areas exposed to extremes of temperature.

NOTE: Use of Non-UPOFLOOR adhesives with UPOFLOOR Xpressions products will void UPOFLOOR Floors Warranty adhesion claims, unless otherwise acceptable to UPOFLOOR Flooring.

F. Equipment: Apply UPOFLOOR 5900 Premium adhesive using appropriate notched trowel for substrate conditions.

1. Porous & Non-Porous Substrates: Use Gundlach FFA U-notch 1/32 x 1/16 x 1/32 inch (0.79mm x 1.59mm x 0.79mm) or equivalent.
2. Floor Roller: 3-section 100 lb (45 kg)

NOTE: Select appropriate Floor Finish Option below to suit project and delete item not chosen.

2.5 FINISH OPTIONS

- A. No Wax Maintenance Guide
- B. Floor Cleaner/Maintainer: Provide protective coating system as recommended by flooring manufacturer's Alternate Maintenance Guide. Wait specified time before wet cleaning.

C. Floor Finish System - Urethane: Provide **Dr. Schutz** UV-resistant, two-part polyurethane, water-based finish system with a minimum 45 percent pure polyurethane solids.

1. **System Materials** (as selected by the Architect):

- a. Dr. Schutz Waxnomor two-part polyurethane water-based finish in with Aziridine-Free Crosslinker.

NOTE: Edit sheen type below to project requirements and delete items not chosen.

1). Sheen: Matte, Satin, Gloss

2). Dr Schutz *Slipnomor* additive

3). Dr Schutz *Colorize* additive

b. Dr Schutz Marknomor two-part polyurethane water-based finish with *Aziridine-Free Crosslinker*

1). Sheen: Satin Gloss

c. Dr Schutz *Stripper*

d. Dr Schutz *Cleaner*

2. System Equipment: Furnish rollers, yokes, extension poles and pads (cleaning, stripping, texture, renovation) for use with Low RPM Swing Machine (175 rpm).

PART 3 – EXECUTION

3.1 FIELD CONDITIONS

A. Conditions and Measurements: Visit jobsite to verify installation conditions and floor measurements.

1. Environmental Conditions per manufacturer's recommendations and DIVISION 01.

WARNING: Use of portable heaters may cause failure.

3.2 EXAMINATION, PREPARATION AND INSTALLATION

A. Proceed with installation only after unsatisfactory conditions have been corrected.

1. Verify conditions and test substrates as recommended to meet requirements.

B. Prepare substrates to ensure proper adhesion of resilient sheet flooring system in accordance with flooring and adhesive manufacturer's written instructions.

C. Install resilient plank flooring in accordance with manufacturer's current Installation Guide.

D. Expansion Joints: Locate movement joints where indicated prior to installation of adhesive and resilient sheet flooring and cover using an appropriate expansion joint cover.

E. Protect flooring from foot traffic for time specified for adhesive before and after installation per adhesive manufacturer's instructions to allow proper set up time.

F. Protect flooring from heavy traffic, point or rolling loads for a minimum of 48 hours or longer depending on conditions, after installation, when installed using UPOFLOOR 5300, UPOFLOOR 5900, or UPOFLOOR 200. Wait a minimum of 48 hours until adhesive has cured before wet cleaning.

3.3 FIELD QUALITY CONTROL

A. Site Tests and Inspections in accordance with DIVISION 01: Inspect floor installation for nonconforming work including lack of adequate adhesion, adhesive overspray, and indications of improper substrate preparation.

3.4 CLEANING, MAINTENANCE AND PROTECTION

- A. Provide Progress Cleaning, Final Cleaning and Initial Maintenance in accordance with manufacturer's Maintenance Guide, DIVISION 01 requirements, and the following:
1. Protect newly installed flooring from traffic for specified time on adhesive label.
 2. Protect new installed flooring from rolling traffic and point loads for a minimum of 48 hours or longer based on ambient conditions and adhesive cure time.
 3. Provide surface protection for installed product and use plywood or rigid panels to roll or move all heavy objects across the flooring before and after owner's acceptance.
 4. Provide waste management and disposal in accordance with DIVISION 01 requirements.
 - a. Collect and recycle all flooring and adhesive cardboard cartons and each **UPOFLOOR Spray 200** spray adhesive 100% recyclable aluminum canister.
 5. Permit only light damp mopping with well wrung mop during the first 2-4 days after installation.

3.5 CLOSEOUT ACTIVITIES

- A. Substantial Completion Requirements in accordance with DIVISION 01 requirements: Closeout procedures, demonstration and training, and sustainable design closeout documentation.

END OF SECTION

NOTE: Be sure to obtain the latest version of this Guide Specification.

This Guide Specification is not a completed document ready for use. It must be edited deleting, adding and modifying text as needed to suit project requirements.

The professional stamping and the contracting parties of the Contract Documents are responsible for the accuracy of issued project specifications, including any use of this UPOFLOOR Floors Guide Specification.

UPOFLOOR SHALL NOT BE LIABLE FOR DAMAGES ARISING OUT OF THE USE OF THIS GUIDE SPECIFICATION.