

# ALLURA FLEX TECHNICAL DATA

## 1. PRODUCT NAME & MANUFACTURER

### 1.1 Product:

Allura Flex LVT floor covering

### 1.2 Manufacturer:

Forbo Flooring Systems  
Humboldt Industrial Park  
Hazleton, PA 18202

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### 1.3 Product Description:

Construction: Allura Flex luxury vinyl tiles are comprised of a vinyl wear layer with a high performance PUR topcoat which provides color clarity. A calendared wear layer provides clear image, superior strength and durability. The thick glass interlayer ensures dimensional stability, flexibility, tension releases and strength with a thick solid backing for comfort, balance and prevention of curl. The mechanical foam back layer contributes to its acoustical properties.

### 1.4 Physical Characteristics: (dimensions are approximate)

Size ----- Approx. 39.4" x 7.9" (100 cm x 20 cm)

----- Approx. 47.2" x 7.9" (120 cm x 20 cm)

----- Approx. 59.1" x 11" (150 cm x 28 cm)

----- Approx. 19.7" x 19.7" (50 cm x 50 cm)

Gauge----- 0.157" (4.0 mm)

Wear Layer--- 21.65 mils (0.02" or 0.55 mm)

Packaging--- 39.4" x 7.9": 14 pieces (30.14 ft<sup>2</sup> or 2.80 m<sup>2</sup>)

----- 47.2" x 7.9": 12 pieces (31 ft<sup>2</sup> or 2.88 m<sup>2</sup>)

----- 59.1" x 11": 10 pieces (45.21 ft<sup>2</sup> or 4.2 m<sup>2</sup>)

----- 19.7" x 19.7": 12 pieces (32.29 ft<sup>2</sup> or 3 m<sup>2</sup>)

## 2. PRODUCT PERFORMANCE & TECHNICAL DATA

### 2.1 Reference Specification:

Meets or exceeds all technical requirements as set forth in ASTM F 1700, Standard Specification for Solid Vinyl Floor Tile.

Class III, Type B

### 2.2 Environmental:

Compliant with CHPS 01350 requirements for VOC emissions and indoor air quality.

Contributes to the following LEED® v4 credits:

Materials & Resources

Credit 4, Option 1: See Forbo's LEED® v4 sheet for additional information.

Credit 4, Option 2: Recycled Content (18% Pre-Consumer)

Prerequisite 2: 100% Recyclable Packaging

Indoor Environmental Quality

Credit 2: Low-Emitting Materials ([www.chps.net](http://www.chps.net))

Credit 2: Low-Emitting Materials (Adhesives comply with SCAQMD Rule #1168)

### 2.3 Static Load Limit

700 pounds per square inch when tested in accordance with ASTM F 970-00, Standard Test Method for Static Load Limit.

### 2.4 Slip Resistance:

Meets or exceeds the industry recommendation of >0.5 for flat surfaces when tested in accordance with ASTM D 2047, Standard Test Method for Static Coefficient of Friction.

### 2.5 Castor Resistance:

Suitable for office chairs with castors when tested in accordance with EN 985, Castor Chair Test.

### 2.6 Impact Sound Reduction

14db when tested in accordance with ISO 717-2, Impact Sound Insulation Test.

IIC 56 when tested in accordance with ASTM E 492, Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor/Ceiling Assemblies using the Tapping Machine.

### 2.7 Fire Testing:

Class 1 when tested in accordance with ASTM E 648/NFPA 253, Standard Test Method for Critical Radiant Flux.

Meets 450 or less when tested in accordance with ASTM E 662/ NFPA 258, Standard Test Method for Smoke Density.

### 2.8 Chemical Resistance: (Exposure Time One Hour)\*

Diluted Acids – Nitric, Hydrochloric, Acetic,  
Lactic, Citric----- No Change  
Sulfuric Acid ----- Slight Color Change  
Isopropyl Alcohol (70%)----- No Change  
Sodium Hydroxide (5%)----- Softening  
Ammonia (5%), Acetone -----Possible Softening/Staining  
Phenol (5%)----- No Change  
Soda Solution, Soap Solution (Slightly Alkaline) No Change  
Gasoline, Kerosene, White Spirit, Paraffin ----- No Change  
Benzene, Toluene, Methyl Alcohol,  
Ethyl Acetate ----- No Change  
Methyl Ethyl Ketone, Ether ----- No Change  
Mineral Oil, Olive Oil, Vegetable Oil, Animal Fat No Change  
Blood, Urine, Excrement ----- No Change  
Lipstick ----- No Change  
Formaldehyde, Hydrogen Peroxide 3% ----- No Change  
Hot Chili Paste, Iodine, Betadine, Hair Dye----- No Change  
Shoe Polish ----- Slight Surface Dulling  
Silver Nitrate----- Staining/Possible Softening  
Bitumen, Salt Water ----- No Change  
Methylene Blue ----- No Change  
Gel-Based Hand Sanitizer, Bleach ----- No Change

Tested in accordance with ASTM F 925, Standard Test Method Resistance to Chemicals of Resilient Flooring.

\*Allura Wood Authentic is NOT resistant to prolonged exposure to high alkalis.

### 3. INSTALLATION

#### 3.1 Site Conditions:

The installation should not begin until the work of all other trades has been completed, especially overhead trades. Areas to receive flooring should be clean, fully enclosed and weathertight with the permanent HVAC must be fully operational, controlled and set at a minimum of 68° F (20° C) for a minimum of seven days prior to, during, and seven days after the installation. The flooring material (including adhesive) should be conditioned in the same manner for a minimum of 48 hours prior to the installation.

Areas to receive flooring shall be adequately lighted to allow for proper inspection of the substrate, installation and seaming of the flooring, and for final inspection.

#### 3.2 Substrates:

Floors shall be sound, smooth, flat, permanently dry, clean, and free of all foreign materials including, but not limited to, dust, paint, grease, oils, solvents, curing and hardening compounds, sealers, asphalt and old adhesive residue. Wood floors should be double construction with a minimum total thickness of 1 inch. Wood floors must be rigid, free from movement and have at least 18" of well-ventilated air space below. Forbo floor coverings should not be installed over wooden subfloors built on sleepers over on or below grade concrete floors without first making sure that adequate precautions have been taken to ensure the structural integrity of the system, and to prevent moisture migration from the concrete slab. Concrete substrates should be prepared in accordance with the latest version of ASTM F 710, Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring. Concrete shall have a minimum compressive strength of 3,000 psi. Patch and repair minor cracks and other imperfections using only the highest quality patching and leveling compounds in strict accordance to the manufacturer's recommendations for their use and application. Floor covering should not be installed over expansion joints. Suitable expansion joint covers should be used. It is essential that moisture tests be conducted on all concrete floors regardless of the age or grade level. Conduct calcium chloride tests in accordance with the latest version of ASTM F 1869, Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. Measure the internal relative humidity of the concrete slab in accordance with the latest version of ASTM F 2170, Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes. One test of each type should be conducted for every 1,000 square feet of flooring (minimum of 3). The tests should be conducted around the perimeter of the room, at columns, and anywhere moisture may be evident. Concrete moisture vapor emissions must not exceed 5.0 lbs. per 1,000 square feet in 24 hours when using Forbo FRT 950 adhesive. Concrete internal relative

humidity must not exceed 75% when using Forbo FRT 950 adhesive. A diagram of the area showing the location and results of each test should be submitted to the Architect, General Contractor or End User.

If the test results exceed these limitations, the installation must not proceed until the problem has been corrected.

**Note: Moisture tests indicate conditions at the time of the test only. The absence of an acceptable vapor retarder under the slab, changes in the environment, or other circumstances beyond Forbo's control, may lead to adverse changes in the moisture condition of the concrete. Forbo's warranty shall not be extended to cover damage or failures caused by moisture conditions in excess of specified limits that occur after the time of initial testing or installation.**

#### 3.3 Adhesive:

Use Forbo FRT 950 adhesive.

Use a 3/8" nap roller.

Spread Rate: Approximately 300 square feet/gallon.

#### 3.4 Installation Guidelines:

Refer to Forbo Flooring's Installation Guide for complete installation guidelines.

### 4. AVAILABILITY & COST

Available through authorized Forbo Flooring suppliers throughout North America. Contact Forbo Flooring or an authorized supplier for cost information.

### 5. WARRANTY

Limited 10-year warranty. For complete details, contact Forbo Flooring.

### 6. CARE & CLEANING

After installation is completed, allow a minimum of 5 days for the adhesive to properly bond and cure before conducting wet cleaning procedures. See Forbo Flooring's Floor Care Guide for additional information.

### 7. SUPPORT SERVICES

Submittal samples for verification and approval are available upon request from Forbo Flooring. Samples shall be submitted in compliance with the requirements of the Contract Documents. Please fax all sample requests to +570 450 0229 or visit our website at [www.forboflooringNA.com](http://www.forboflooringNA.com). Accepted and approved samples shall constitute the standard materials that represent materials installed in the project.

For current installation and floor care guidelines, guide specifications, and other technical information, visit our website at [www.forboflooringNA.com](http://www.forboflooringNA.com).