

# FORBO ALLURA DECIBEL TECHNICAL DATA

## 1. PRODUCT NAME & MANUFACTURER

### 1.1 Product:

Forbo Allura Decibel LVT floor covering

### 1.2 Manufacturer:

Forbo Flooring Systems US  
8 Maplewood Drive  
Hazleton, PA 18202  
1-800-842-7839

Forbo Flooring Systems Canada  
3983 Nashua Drive, Unit 1  
Mississauga, ON L4V 1P3  
1-800-268-8108 (English)  
1-800-567-9268 (French)

[www.forboflooringNA.com](http://www.forboflooringNA.com)

### 1.3 Product Description:

Construction: Forbo Allura Decibel 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 D3S core technology provides the best dimensional stability while contributing to its acoustical properties.

### 1.4 Physical Characteristics:

**(dimensions are approximate)**

Size ----- 19.7" x 19.7" (50 cm x 50 cm)  
----- 39.4" x 6.5" (100 cm x 16.6 cm)  
----- 39.4" x 7.9" (100 cm x 20 cm)  
----- 47.2" x 7.9" (120 cm x 20 cm)  
Gauge ----- 0.157" (4.0 mm)  
Wear Layer ---- 31.50 mils (0.03" or 0.8 mm)  
Packaging ----- 19.7" x 19.7": 16 pieces (43.06 ft<sup>2</sup> or 4 m<sup>2</sup>)  
----- 39.4" x 6.5": 24 pieces (42.84 ft<sup>2</sup> or 3.98 m<sup>2</sup>)  
----- 39.4" x 7.9": 22 pieces (47.36 ft<sup>2</sup> or 4.40 m<sup>2</sup>)  
----- 47.2" x 7.9": 16 pieces (41.33 ft<sup>2</sup> or 3.84 m<sup>2</sup>)  
Weight/Carton 19.7" x 19.7": 31.86 lbs. (14.45 kg)  
----- 39.4" x 6.5": 31.70 lbs. (14.70 kg)  
----- 39.4" x 7.9": 35.05 lbs. (15.89 kg)  
----- 47.2" x 7.9": 30.58 lbs. (13.87 kg)

## 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 A

### 2.2 Environmental:

Compliant with CDPH 01350 v1.2 requirements for VOC emissions and indoor air quality.  
Forbo Allura Decibel contributes to LEED v4.1 credits. For additional information, contact Forbo Flooring Systems.

### 2.3 Static Load Limit:

Residual compression of 0.003" with 250 pounds per square inch when tested in accordance with ASTM F 970-17, 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 ISO 4918, Castor Chair Continuous Use Test.

### 2.6 Acoustic Testing:

19dB when tested in accordance with ISO 717-2, Impact Sound Insulation Test.  
IIC 67 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.  
STC 55 when tested in accordance with ASTM E 90, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.

### 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.  
FSR – 215; SDC – 170 when tested in accordance to CAN/ULC S102.2, Standard Test Method for Flame Spread Rating and Smoke Development.

### 2.8 Chemical Resistance:

**(Exposure Time – 1h)\***

Acetic Acid (5%)	-----	No Effect
Acetone	-----	No Effect
Ammonia (5%)	-----	No Effect
Betadine	-----	No Effect
Bleach	-----	No Effect
Brown or Black Hair Dye	-----	No Effect
Brown or Black Shoe Polish	-----	No Effect
Gasoline	-----	No Effect
Gel Hand Sanitizer	-----	No Effect
Hot Chili Past	-----	No Effect
Hydrochloric Acid (5%)	-----	No Effect
Iodine	-----	Slight Color Change
Isopropyl Alcohol (70%)	-----	No Effect
Kerosene	-----	No Effect
Methylene Blue	-----	Slight Color Change
Mineral Oil	-----	No Effect
Olive Oil	-----	No Effect
Phenol (5%)	-----	No Effect
Sodium Hydroxide (5%)	-----	No Effect
Sulfuric Acid	-----	No Effect

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

\*Forbo Allura Decibel is NOT resistant to prolonged exposure to high alkalis.

### **3. INSTALLATION**

#### **3.1 Adhesive:**

Use Forbo FST 1299, Forbo Sustain 1195 or Forbo 660 adhesive.

#### **3.2 Installation Guidelines:**

Forbo does NOT recommend the application of adhesive tape on Allura. Adhesive tape may cause damage to the factory coating of resilient flooring products. When using floor protection materials, tape the seams of the floor protection together and secure the floor protection by weighing down in corners and against walls. DO NOT secure floor protection materials by taping them directly to the surface of resilient floor coverings.

Refer to Forbo's Installation Guidelines for complete installation recommendations.

### **4. WARRANTY**

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

### **5. CARE & CLEANING**

Refer to Forbo's Floor Care Guidelines for complete care recommendations.