

FORBO SPHERA SD | EC TECHNICAL DATA

1. PRODUCT NAME & MANUFACTURER

1.1 Product:

Forbo Sphera Element SD | EC homogeneous conductive vinyl sheet resilient floor covering

1.2 Manufacturer:

Forbo Flooring Systems
Humboldt Industrial Park
Hazleton, PA 18202

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1.3 Product Description:

Construction: Forbo Sphera SD | EC is a homogeneous conductive vinyl sheet floorcovering that is made of low emitting, 100% phthalate free materials. It has a uniquely embossed SMART-top surface, which provides a high resistance to chemicals, scratches and stains. Conductive polymer granules are added to the PVC mix to make the conductive chips in the material.

1.4 Physical Characteristics:

(dimensions are approximate)

Gauge----- 0.080" (2.0 mm)

Width ----- 79" (2 meters)

Length ----- 82' (25 meters)

Roll Size ----- 60 yards² (50 meters²)

2. PRODUCT PERFORMANCE & TECHNICAL DATA

2.1 Reference Specification:

Meets or exceeds all technical requirements as set forth in ASTM F 1913, Standard Specification for Vinyl Sheet Floor Covering without Backing

2.2 Environmental:

Compliant with CHPS 01350 requirements for VOC emissions and indoor air quality. Forbo Sphera SD | EC contributes to LEED v4.1 credits. For additional information, contact Forbo Flooring Systems.

2.3 Electrical Resistance

Meets the following surface to ground ranges when tested in accordance to ASTM F 150, NFPA 99, and/or EOS/ESD S7.1:

Sphera SD: $1 \times 10^6 - 10^9$ ohms surface to ground

Sphera EC: $5 \times 10^4 - 10^6$ ohms surface to ground

2.4 Static Load Limit:

Residual compression of 0.001" with 250 pounds per square inch when tested in accordance with ASTM F 970-17, Standard Test Method for Static Load Limit.

2.5 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.

2.6 Castor Resistance:

Suitable for office chairs with castors when tested in accordance with ISO 4918, Castor Chair Test.

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 – 60; SDC – 180 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, Hydrochloric Acid (5%) ----- No Effect

Isopropyl Alcohol ----- No Effect

Sodium Hydroxide (5%)----- No Effect

Sulfuric Acid ----- Slight Color Change

Ammonia (5%), Phenol (5%) ----- No Effect

Bleach, Acetone ----- No Effect

Gasoline, Kerosene ----- No Effect

Mineral Oil, Olive Oil -----Slight Color & Surface Change

Shoe Polish -----Moderate Color Change

Hot Chili Paste ----- Slight Color Change

Iodine----- No Effect

Brown/Black Hair Dye----- Major Color Change

Betadine, Methylene Blue ----- No Effect

Gel Hand Sanitizer ----- No Effect

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

3. INSTALLATION

3.1 Adhesive:

Use Forbo C 930 for copper grounding strap and Forbo FST 1299 adhesive for everything else.

3.2 Heat Welding:

Seams must be heat welded. Use only Forbo Sphera welding rod.

Welding rod dimensions: 4 mm; 165 linear feet per spool.

3.3 Flash Coving (OPTIONAL):

Flash cove up walls to the desired height. Use Forbo C 930 and Forbo FST 1299 adhesive.

3.4 Installation Guidelines:

Forbo does NOT recommend the application of adhesive tape on Sphera. 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 15-year warranty. For complete details, contact Forbo Flooring Systems.

5. CARE & CLEANING

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