

Product Name

True Earth Floorworks® Flooring

Associated Specification Section

MasterFormat 09 62 18 Multilayer Modular Flooring

Manufacturer's Name

Lico US



December, 2023

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PRODUCT DESCRIPTION

PRODUCT FEATURES

- DESCRIPTION
 - Completely plastic-free, waterproof, made from 100% organic materials. It is composed natural materials such as wood, cork, seed oil, rubber, and other reclaimed and recycled materials.
 - Multilayer modular flooring.
 - Floating application.
- BASIC USES / RELATED USES
 - Interior finished flooring for residential and commercial applications.
 - Flooring can be installed on, above, or below grade.
 - Suitable substrates are wood and concrete subfloors or properly prepared existing flooring. Consult manufacturer.
 - Suitable for use over hydronic in-floor heating systems.
- PRODUCT ATTRIBUTES AND CHARACTERISTICS
 - Made from 100% plastic-free, all natural materials with an industry-leading 79% recycled content. Swiss-engineered and produced, incorporating LICO's zero-waste manufacturing processes.
 - Manufactured using patented 5-layer, revolutionary blend of recycled leather and natural binding materials. LICO's proprietary Hot coat® wear layer is a blend of acrylic, polyurethane, and aluminum oxide to allow for flexibility and movement, yet achieve an excellent AC 4 rated wear durability
 - Guaranteed not to delaminate.
 - Superior joint-holding strength; joint locking strength (ISO 24334): > 500 kg/lfm - kg/m.
 - Thermal resistance (EN 12524): 0.088 m² K/W.
 - Durability: Achieves Class 4 Heavy Commercial Rating including surface wear and caster chair resistance, small and large ball impact, light resistance, thickness swell, surface bond and stain resistance.
 - Dimensional stability (EN 434): < 0.10%.
 - De-constructible without damage; interlocking edge designed for tool free installation and removal.

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- **SELECTION CRITERIA**
 - Floating application; typically installed without adhesives or fasteners. For applications using adhesives, consult with manufacturer.
 - Dimensionally stable, suitable for use over hydronic in-floor heating systems up to a maximum of 27 degrees Celsius (80 degrees Fahrenheit). Consult manufacturer for special installation.
 - Zero acclimation period and up to 6500 sq ft without expansion joint
 - Waterproof and moisture resistant.
 - Mould and mildew resistant and 100% anti-microbial.
 - Light and UV resistant when used for interior finish.
 - Enhances acoustical performance.
 - Non-combustible and fire resistant.
 - Scratch resistant.
 - Chemical resistant.
 - No water stains, no moisture-related sagging, no rot.
 - Nonporous, non-absorbent.
 - Hygienic, easy to clean, easy to disinfect.
- **SUSTAINABILITY CRITERIA**
 - Green Guard certified.
 - Eco-INSTITUT certified.
 - Blue Angel A+ certified. 100% Natural certified
 - Contributes to credits in several green building programs such as LEED® and Green Globes®.
- **APPLICABLE STANDARDS**
 - ASTM E84-17a - Standard Test Method for Surface Burning Characteristics of Building Materials.
 - ASTM E90-09(2016) - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
 - ASTM E492-09(2016) e1 - Standard Test Method for Laboratory Measurement of Impact Sound Transmission through Floor-Ceiling Assemblies Using the Tapping Machine.

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- ASTM E2179-03(2009) - Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors.
- ASTM F710-17 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
- ASTM F1869-16a - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- ASTM F2170-17 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
- ASTM D4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abrasion.
- NALFA 3.1 Static Load - Class 1 and Class 2
- NALFA 3.2 Thickness Swell – Usage loads 1, 2, 3 and 4
- NALFA 3.3 Xenon Light Resistance – Class 1, 2, 3 and 4
- NALFA 3.4 Cleanability-Stain Resistance – Class 1, 2, 3 and 4
- NALFA 3.5 Large Ball Impact Resistance – Class 1, 2, 3 and 4
- NALFA 3.6 Small Ball (Dart) Impact Resistance – Class 1, 2, 3 and 4
- NALFA 3.10 Surface Bond of Laminate Flooring per NALFA Standards Publication LF 01-2008 – Class 1, 2, 3 and 4
- ANSI A137.1 Dynamic Coefficient of Friction of Hard Surface Floors
- BS EN 317:1993 - Particleboards and fiberboards - Determination of swelling in thickness after immersion in water.
- BS EN 423:2002 - Resilient floor coverings - Determination of resistance to staining.
- BS EN 425:2002 - Resilient and laminate floor coverings - Castor chair test.
- BS EN 430:1994 - Resilient floor coverings - Determination of mass per unit area.
- BS EN 433:1994 - Resilient floor coverings - Determination of residual indentation after static loading.
- BS EN 434:1994 - Resilient floor coverings - Determination of dimensional stability and curling after exposure to heat.
- BS EN 1815:2016 - Resilient and laminate floor coverings - Assessment of static electrical propensity.
- BS EN 12524:2000 - Building materials and products - Hydrothermal properties. Tabulated design values.

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- BS EN 16511:2014 - Loose-laid panels - Semi-rigid multilayer modular floor covering (MMF) panels with wear resistant top layer.
- BS EN 51130:2014 - Testing of Floor Coverings - Determination of the Anti-Slip Property - Workrooms and Fields of Activities with Slip Danger - Walking Method - Ramp Test.
- BS EN ISO 105:2014 - Textiles - Tests for color fastness.
- BS ISO 24334:2014 - Laminate floor coverings - Determination of locking strength for mechanically assembled panels.
- **PERFORMANCE CRITERIA**
 - Durability: EN 16511 Commercial 32 classification and Domestic/Residential 23 classification.
 - Impact Sound Reduction:
 - Floor Covering Impact Sound Reduction (Flooring-Concrete Floor) to ASTM E2179: Increase in Impact Insulation Class (Δ IIC); minimum 26.
 - Impact Sound Transmission (Flooring-Concrete Floor-No Ceiling) to ASTM E492: Impact Insulation Class (IIC); 59.
 - Sound Transmission Classification:
 - Sound Transmission Loss (Flooring-Concrete Floor-No Ceiling) to ASTM E90: STC 53.
 - Effect of chair castors (EN 425): suitable for type W.
 - Residual indentation (EN 433): max. 0.03 mm.
 - Water Resistance: EN 317, no swelling after 24h.
 - Slip Resistance:
 - EN 13895: Class DS.
 - EN 51130: R9.
 - Electrostatic Propensity: < 2.0 kV in accordance with EN 1815.
 - Resistance to chemicals (EN 423): Good resistance.
 - Lightfast (ISO 105): 6 / 7.
- **QUALITY STATEMENT, TESTS, CERTIFICATIONS, AND APPROVALS**
 - Certification from independent testing agencies for product's environmental characteristics such as ASTM, CE and IAQ A+ Rating is available; Consult the manufacturer.

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PRODUCT DESCRIPTION

- **PACKAGING, HANDLING, PROTECTION, AND DELIVERY INSTRUCTIONS**
 - Deliver products in their original packages and store in enclosed shelter, off-ground.
 - Flooring should be stored and installed in a climate-controlled location with an average temperature between 18 and 29 degrees Celsius (65- and 85-degrees Fahrenheit).
- **WARRANTY**
 - Commercial Warranty: Manufacturer's limited warranty of 10 years.
 - Domestic/Residential Warranty: Manufacturer's limited lifetime warranty.
- **LIMITATIONS**
 - Comply with substrate flatness tolerances.
 - For indoor use only.
- **SAFETY PRECAUTIONS**
 - Installers should wear filtered dust mask when cutting the product.
- **AVAILABILITY**
 - For local representatives contact the manufacturer.
- **COST**
 - Consult manufacturer national or regional offices for specific product costs or relative costs.

PRODUCT PROPERTIES

- **MATERIALS**
 - Surface Layer: hot-coat aluminium oxide wear layer over high-definition digital printing.
 - Core: Completely plastic-free, waterproof made from 100% organic materials.
 - Factory Underlayment: Recycled cork underlay.
- **SIZES**
 - Thickness: 9 mm
 - Sizes:
 - 200.66 mm (7.9 inches) W x 1234.44 mm (48.6 inches) L, 8 Planks per carton 21.27 sq. Ft.

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PRODUCT DESCRIPTION

- 200.66 mm (7.9 inches) W x 1816.1 mm (71.5 inches) L, 8 Planks per carton 21.27 sq. ft.
-
- 619.76 mm (24.4 inches) W x 914.40 mm (36 inches) L, 4 Tiles per carton 24.43 sq. ft.

- **FINISH, COLOURS AND TEXTURES**
 - Texture: Embossed.
 - **Available Planks -**
 - Timber White
 - Timeless Oak Grey
 - Oak Sevilla Taupe
 - Natural Oak Grey
 - Rustic Oak Brown
 - Savannah Oak Dark Grey
 - Oak Villa Gold
 - Tuscan Oak Brown
 - Kaya Oak Wellington
 - Savannah Oak Brown
 - Timber Espresso
 - Wild Oak Bark
 - **Available Tiles -**
 - Concrete Polished White
 - Monte Carrara
 - Concrete Urban
 - Concrete Loft Dark

PRODUCT PLACEMENT

- **PREPARATION**
 - New and existing concrete subfloors should meet ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
 - Verify substrate flatness.
 - Substrate Tolerance: 3/16 inch in 10 feet or 1/8 inch in 6 feet.

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PRODUCT DESCRIPTION

- Maximum moisture emission rate (MVER) of substrate: 8 lbs. per 1,000 sq. ft. (3,63 kg per 92,9 m²) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869).

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- Maximum relative humidity (RH) of substrate: 85% when using the in-situ probe method (ASTM F2170).
- Maximum acceptable pH level of 9 or less.
- Flooring must be installed in a temperature-controlled environment where the substrate temperature is maintained between 65- and 85-degrees Fahrenheit (18 and 29 degrees Celsius)
- **INSTALLATION**
 - Install in accordance with manufacturer's Installation Guide.
- **COVERAGE**
 - 1.97 sq. m. (21.27 sq. ft.) per box.
- **WASTE RECYCLING**
 - Fabrication is 100% recyclable.
- **MAINTENANCE INSTRUCTIONS AND PROCEDURES**
 - Lico True Earth Floorworks® flooring features a hot coat aluminum oxide scratch-resistant top layer that easily repels dirt and requires little effort to keep clean.
 - Typical cleaning procedures include wet mopping with water-diluted mild detergent or commercial flooring care products. Cleaning products to be free from abrasives or harsh chemicals.

Corporate Identification

Lico US

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Classification and Filing

MasterFormat 2016:

09 62 18 - Multilayer Modular Flooring

OmniClass 2006:

23-15 17 15 - Resilient Flooring.

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PRODUCT DESCRIPTION

UniFormat 2010

B1010.90 - Floor Construction Supplementary Components

C2030.30 - Specialty Flooring

END