

**Product Name**

Hydrofix® Flooring

**Associated Specification Section**

MasterFormat 09 62 18 Multilayer Modular Flooring

**Manufacturer's Name**

Lico US



May 2024

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**PRODUCT DESCRIPTION**

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**PRODUCT FEATURES**

- DESCRIPTION
  - 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
  - Manufactured using patented 7-layer, heat-infused extrusion process to create homogenous flooring product with high-density and superior dimensional stability.
    - Guaranteed not to delaminate.
    - Superior joint-holding strength; joint locking strength (ISO 24334): > 500 kg/lfm - kg/m.
  - Total Weight (EN 430): ca. 6.000 g/m<sup>2</sup>.
  - Thermal resistance (EN 12524): 0.088 m<sup>2</sup> K/W.
  - Dimensionally stable; 60% reduction in linear thermal expansion when compared to other flooring constructed using wood-polymer or stone-polymer composites or fibreboard.
    - Dimensional stability (EN 434): < 0.10%.
  - De-constructible without damage; interlocking edge designed for tool free installation and removal.
- 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 instructions when installing over heated subfloors.

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- 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 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.
  - 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.

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- ASTM D4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.
- 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.
- BS EN 13501-1:2007+A1:2009 - Fire classification of construction products and building elements - Classification using test data from reaction to fire tests.
- 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 ( $\Delta$ IIC); minimum 26.
    - Impact Sound Transmission (Flooring-Concrete Floor-No Ceiling) to ASTM E492: Impact Insulation Class (IIC); 59.
  - Sound Transmission Classification:

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- - Sound Transmission Loss (Flooring-Concrete Floor-No Ceiling) to ASTM E90: STC 56.
- Fire Classification
  - EN 13501-1:
    - Fire Behavior: Class B.
    - Smoke Development: Class S1.
- 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**
  - Our flooring products are rated for surface burning characteristics, flame spread and smoke development.
  - Certification from independent testing agencies for product's environmental characteristics such as CE and IAQ A+ Rating is available; Consult the manufacturer.
- **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 15 years.
  - Domestic/Residential Warranty: Manufacturer's limited lifetime warranty.
- **LIMITATIONS**
  - Comply with substrate flatness tolerances.

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- 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: (22 mil) wear layer over high-definition digital printing.
  - Core: Waterproof, high-density, PVC-based extrusion; less than 0.1% plasticizer content.
  - Factory Underlayment: 1.4 mm thick extruded polystyrene acoustic underlay.
- SIZES
  - Thickness: 5.5 mm
  - Sizes:
    - 228.6 mm (9 inches) W x 1520 mm (60 inches) L, 7 planks per carton 26.27 s.f.
- FINISH, COLOURS AND TEXTURES
  - Texture: Embossed.
  - Available simulated wood veneers:
    - Bush Oak
    - White Oak Polar
    - Walnut
    - Bush Oak Smoked
    - Oak Trentino
    - White Oak Sand
    - Rio Palisander

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- Altholz Macchiato Stripe
- Altholz Mocca Stripe
- Kastanie Living Acacia
- Larche Zermatt
- Oak Emmen
- Oak Locarno
- Oak Tennessee
- Oak Hudson
- Oak Meramec
- Oak Yukon
- Oak Sacramento
- Oak Missouri
- Oak Noblesse
- Oak Müstair
- Oak St. Gallen
- Honey Oak
- Oak Autumn

**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.
  - Maximum moisture emission rate (MVER) of substrate: 8 lbs. per 1,000 sq. ft. (3,63 kg per 92,9 m<sup>2</sup>) 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**
  - 7 planks 9" x 60" (26.27 sq. ft.) per box.
- **WASTE RECYCLING**
  - Plastic fabrication is 100% recyclable.
- **MAINTENANCE INSTRUCTIONS AND PROCEDURES**
  - Lico flooring features a 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

PO Box 1581, Appleton, Wisconsin, 54912-1581

Tel: 1 (800) 434-3750

Fax: 1 (800) 434-3751

[www.lico-us.com](http://www.lico-us.com)**Technical Services Available**

Customer Service Center is available from 7 am - 4:30 pm Monday through Friday CST

TEL: 1 (800) 434-3750 or FAX 1 (800) 434-3751

**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**

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UniFormat 2010

B1010.90 - Floor Construction Supplementary Components

C2030.30 - Specialty Flooring

**END**