



PRODUCT SPECIFICATIONS

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|-----------------------------------|--|--|---------|-----------|
| Product Dimensions | Overall Thickness | 5.0 mm | | |
| | Width and Length | 7" W x 48" L, 12" W x 24" L | | |
| Packaging (Per Carton) | | 10 Planks | 23.3 SF | 41.7 Lbs. |
| Construction | Top Layers | High-Definition Decor Film – Wood or Stone (EIR) | | |
| | | Ceramic Quartz-Enhanced Acrylic Coating— EPA Reg. Bacteriostatic | | |
| | | 28 Mil Wear Layer | | |
| | Core | Fiberglass Reinforced Core (FRC) - 100% Virgin Material | | |
| | Density | ≥ 8.75 Kg/m3 | | |
| | Pad | No Pad | | |
| | Bevel | No Bevel | | |
| Installation | Glue-Down | | | |
| Under Floor Heating | Approved - See installation manual for details. | | | |
| Warranty | 30 Years Residential/25 Years Light Commercial/20 Years Commercial | | | |
| Test Data | | | | |
| Static Load | NALFA ANSILF-01-2011 | 250psi Class 4, Heavy Commercial | | |
| Heat Exposure Resistance F1700 | ASTM F2199 EN16511 | 0.03% Class 34, Heavy Commercial | | |
| Swelling after submersion | NALFA LF 01-2011 | 0% Class 4, Heavy Commercial | | |
| Fire Rating | ASTM E648/ 662 | Class I | | |
| Wear Resistance | NALFA LF 01-2011 | Class 4, Heavy Commercial | | |
| Residual Indentation F1700 | ASTM F1914 EN 16511 | Pass Class 34, Heavy Commercial | | |
| Impact Resistance (Big Ball) | NALFA LF01-2011 EN 16511 | Class 4, Heavy Commercial IC3, Class 34, Heavy Commercial | | |
| Impact Resistance (Small Ball) | NALFA LF01-2011 EN 16511 | Class 4, Heavy Commercial IC3, Class 34, Heavy Commercial | | |
| Slip Resistance | ASTM D2047 | >0.5, Meets ADA | | |
| Resistance to staining F1700 | ASTM F925 NALFA LF01-2011 | Pass Class 4, Heavy Commercial | | |
| Chemical Composition | | | | |
| VOC | FloorScore™ | Pass California 01350 | | |

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| Ortho-phthalates | Prop 65 | Not Detected / In Compliance |
| Lead | CPSIA | None Detected |
| Substances of Very High Concern (SVHC) (Mercury, Chromium VI, Cadmium, SCCp, Benzene, Xylene, Tributyltin, etc.) | | Not Detected / REACH Compliant |

| LEED SCORECARD | | | | | |
|---|------------------------------|---|------------------------------------|---|---|
| LEED PROGRAM CERTIFICATION | CATEGORY | CREDIT TITLE | LEED POINTS ATTAINABLE | CREDIT DESCRIPTION | HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS |
| BD + C Building Design and Construction Applies to buildings that are being newly constructed or going through a major renovation; includes New Construction, Core & Shell, Schools, Retail, Hospitality, Data Centers, Warehouses & Distribution Centers, and Healthcare | Indoor Environmental Quality | Credit 1: Enhanced Indoor Air Quality Strategies - Option 2 Additional Enhanced IAQ Strategy - Option D | 1 Point ID&C 2 Points Retail CI | To reduce concentrations of chemicals that can damage air quality, human health, productivity, and the environment. | 1. Formaldehyde emissions are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. 2. The product is FloorScore™ certified. |
| | | Credit 2: Low-Emitting Materials - Option 1 Flooring | 1 Point | | 1. VOC emissions are less than 0.5mg/m3. 2. The product is FloorScore™ certified. |
| | | Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing | 2 Points | To establish better quality indoor air in the building | 1. Formaldehyde emissions and TVOCs are less than 0.05mg/m3. 2. The product is FloorScore™ certified. |
| | | Credit 9: Acoustic Performance | 2 Points | To provide effective acoustic design | The product has a high acoustic performance. IIC and STC test reports are available on request. |
| | Material & Resource | Credit 4: Material ingredient - Option 2 | 1 Point | Minimize the use and generation of harmful substances | The product is 100% REACH compliant |
| | | Credit 6 - PBT source reduction: Lead, Cadmium and Copper | 1 Point | To reduce the release of persistent, bioaccumulative, and toxic chemicals | The product is free of lead, cadmium and copper |
| O + M Building Operations and Maintenance | Material & Resource | Credit 3: Purchasing - Facility maintenance and renovation | 1 Point | To reduce the environmental harm from materials used in building renovations | 1. The product is 100% REACH compliant. 2. Formaldehyde emissions and TVOCs are less than 0.05mg/m3. 3. The product is FloorScore™ certified. |
| HOMES Applies to single family homes, low-rise multi-family (one to three stories), or mid-rise multi-family (four to six stories). | Indoor Environmental Quality | Credit 2: Containment Control - Option 4 Air Testing | 1 Point | Demonstrate that contaminants do not exceed concentration levels listed | The product is FloorScore™ certified. |
| | Material & Resource | Credit 7: Low-Emitting Materials | 0.5 Point | To reduce occupant's exposure to airborne chemical contaminants | The product is FloorScore™ certified and meets the requirements of CA Section 01350. The product is made with ULEF or non-added formaldehyde material |
| ID & C Interior Design and Construction Applies to projects that are a complete interior fit-out; includes Commercial Interiors, Retail and Hospitality. | Indoor Environmental Quality | Credit 1: Enhanced Indoor Air Quality Strategies - Option 2 Additional Enhanced IAQ Strategies - Option D | 1 Point ID&C 2 Points Retail CI | To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment. | 1. Formaldehyde emissions and TVOCs are less than 0.05mg/m3. 2. The product is FloorScore™ certified. |
| | | Credit 2: Low-Emitting Materials - Option 1 Flooring | 1 Point | | 1. VOC emissions are less than 0.5mg/m3. 2. The product is FloorScore™ certified. |
| | | Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing | 2 Points | To establish better quality indoor air in the building | 1. Formaldehyde emissions and TVOCs are less than 0.05mg/m3. 2. The product is FloorScore™ certified. |
| | | Credit 9: Acoustic Performance | 2 Points | To provide workspaces and classrooms effective acoustic design | The product has a high acoustic performance. IIC and STC test reports are available on request. |
| | Material & Resource | Credit 4: Material ingredient - Option 2 | 1 Point | Minimize the use and generation of harmful substances | The product is FloorScore™ certified. |

WELL SCORECARD

The WELL Building Standard is founded on the understanding that facets of our environment interact with personal, genetic and behavioral factors to shape our overall health and well-being. By compiling leading practices in building design and management and referencing existing standards and best practice guidelines set by governmental and professional organizations, WELL works to harmonize and clarify existing thresholds and requirements.

AIR

Feature 01. Air Quality Standards

| REQUIREMENT | | CONCEPT SCORE | HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS |
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| Part 1. Standards for Volatile Substances | The following conditions are met: a. Formaldehyde levels less than 27ppb (0.027ppm) b. Total volatile organic compounds less than 500ug/m ³ (0.5mg/m ³) | PRECONDITION | a. Formaldehyde emissions are less than 0.05mg/m ³ b. Total volatile organic compounds less than 500ug/m ³ (0.5mg/m ³) |

Feature 04. VOC Reduction

| REQUIREMENT | | CONCEPT SCORE | HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS |
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| Part 1. Interior Paints and Coatings | The VOC limits of newly applied paints and coatings meet one of the following requirements: a. 100 % of installed products meet California Air Resources Board (CARB) 2007, Suggested Control Measure (SCM) for Architectural Coatings, or South Coast Air Quality Management District (SCAQMD) Rule 1113, effective June 3, 2011, for VOC content. | PRECONDITION | a. The VOC limits for California Air Resources Board (CARB) are less than 0.11ppm. b. Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m ³ (in compliance with CDPH/EHLB Standard Method v1. 1-2010). The product is FloorScore™ certified. |
| Part 3. Flooring | The VOC emissions of all newly installed flooring must meet all limits set by the following, as applicable: a. California Department of Public Health (CDPH) Standard Method v1. 1-2010. | PRECONDITION | Conforms to the CDPH/EHLB Standard Method v1. 1-2010 (California Section 01350), effective January 1, 2012, for the school classroom and private office parameters when modeled as Flooring. The product is FloorScore™ certified. |

Feature 11. Fundamental Material Safety

| REQUIREMENT | | CONCEPT SCORE | HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS |
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| Part 1. Asbestos and Lead Restriction | All newly installed building materials meet the following materials composition requirements: a. No asbestos. b. Not more than 100 ppm (by weight) added lead. | PRECONDITION | a. No asbestos. b. The product contains less than 100 ppm. |
| Part 2. Lead Abatement | For repair, renovation or painting on buildings constructed prior to any applicable laws banning or restricting lead paint, lead evaluation and abatement. | PRECONDITION | The product contains less than 90 ppm. |
| Part 3. Asbestos Abatement | To reduce hazards in buildings constructed prior to any applicable laws banning or restricting asbestos, the following testing evaluation and abatement. | PRECONDITION | The product contains less than 90 ppm. |

Feature 25. Toxic Material Reduction

| REQUIREMENT | | CONCEPT SCORE | HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS |
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| Part 2. Flame Retardant Limitation | Halogenated flame retardants are limited in the following components to 0.01% (100 ppm) to the extent allowable by local code: a. Window and waterproofing membranes, door and window frames and siding. b. Flooring, ceiling tiles and wall coverings. c. Piping and electrical cables, conduits and junction boxes. d. Sound and thermal insulation. | OPTIMIZATION | The product does not contain halogenated flame retardants |

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| Part 3. Phthalate (Plasticizers) Limitation | DEHP, DBP, BBP, DINP, DIDP or DNOP (often found in polyvinyl chloride [PVC]) are limited in the following components to 0.01% (100 ppm): a. Flooring, including resilient and hard surface flooring and carpet. b. Wall coverings, window blinds and shades, shower curtains, furniture, and upholstery. c. Plumbing pipes and moisture barriers. | OPTIMIZATION | In accordance with US Consumer Product Safety Improvement Act 2008 (CPSIA) (H.R.4040) Title I, Section 108 & California Proposition 65 & Annex XV II item 51 & 52 of the REACH Regulation (EC) No. 1907/2006 and amendment No. 552/2009, the product contains less than 100ppm. |
| Part 5. Urea-Formaldehyde Restriction | Urea-formaldehyde presence is limited in the following components to 100 ppm: a. Furniture or any composite wood products. b. Laminating adhesives and resins. c. Thermal insulation. | OPTIMIZATION | The product contains urea-formaldehyde less than 100ppm. |
| COMFORT | | | |
| Feature 74. Exterior Noise Intrusion | | | |
| REQUIREMENT | | CONCEPT SCORE | HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS |
| Part 1. Sound Pressure Level | Each regularly occupied space meets the following sound pressure level as measured when the space and adjacent spaces are unoccupied, but within 1 hour of normal business hours: a. Average sound pressure level from outside noise intrusion does not exceed 50 dBA. | PRECONDITION | 1. The product has IIC = 66 according to the standard ASTM E492-09 |
| Feature 79. Internally Generated Noise | | | |
| REQUIREMENT | | CONCEPT SCORE | HOW OUR PRODUCTS CONTRIBUTE TO OBTAIN LEED POINTS |
| Part 1. Sound Masking Limits | If sound masking systems are used, sound levels fall within the following range, when measured from the nearest workspace: a. Open workspaces: 45 - 48 dBA. b. Enclosed offices: 40 - 42 dBA | OPTIMIZATION | 1. The product has IIC = 66 according to the standard ASTM E492-09 |