

Specification Sheet LVT

TECHNICAL SPECIFICATIONS	Version: EU	Last upd	ate: 11/23/2020
Bevel Lock	Painted N/A	Class of use (ISO 10582) Installation	Class 34 Glue down
Layer	Thickness (mm)	Туре	
Top Layer	0.7	Ceramic bead enhanced UV coating	
Core	2.3	Waterproof thermoplastic composite	
Total	3.0		

CERTIFICATIONS & CHEMICAL PROPERTIES

Norm	Item	Test method	Requirement	Result
EN 14041	Emissions	EN 717-1	≤ 0.124 mg/m3	E1
Decret No2011-321	Emissions	ISO 16000	TVOC<1000µg/m3	VOC A+
GreenGuard Gold	Emissions	Spectrometry, chromatography	TVOC≪220µg	Certified, requests private label application
Prop 65	Orthophthalates	Spectrometry	ND	Compliant
CPSIA	Lead	CPSC-CH-E-1002-08	≤ 90ppm	Compliant
EU REACH Regulation	PAHs	Spectrometry, chromatography	<1mg/kg	Compliant
	SVHC	Spectrometry, chromatography	≤ 0.1% (w/w)	Compliant
EN 14041	CE Certification	Multiple	Multiple	Compliant

PHYSICAL PROPERTIES

orm	Item	Test Method	Requirement	Result
10582	Dimensional stability	ISO 23999	≪ 0.15%	Compliant
	Curling	ISO 23999	≤1mm	Compliant
	Length tolerance	ISO 24342	\leqslant 0.15% of nominal length up to 0.5 mm max.	Compliant
	Width tolerance	ISO 24342	\leqslant 0.10% of nominal width up to 0.5 mm max.	Compliant
	Thickness tolerance	ISO 24346	+0.13mm	Compliant
			-0.10mm	compliant
	Squareness	ISO 24342	≪0.25mm/≪400mm	Compliant
			≪0.35mm/>400mm	compliant
	Flatness	ISO 10582 Appendix B	Length: ≤ 0.50% (concave) ≤ 1.0% (convex)	Compliant
			Width: \leqslant 0.10%(concave) \leqslant 0.15% (convex)	compilant
	Openings between tiles/planks	ISO 10582 Appendix C	0.20mm	Compliant
	Height difference between tiles/planks	ISO 10582 Appendix C	0.15mm	Compliant
	Residual indentation	ISO 24343-1	≤0.1mm	Compliant
	Castor chair	ISO 4918	Slight change only	Compliant
	Resistance to heat	ISO 105-B02:2014	≥ Grade 6	Compliant
		ASTM F1515	∆E ≤8	Compliant
16511	Wear resistance	EN 13329	≥4000R	Compliant
	Impact resistance	EN 13329	≥1600mm	Compliant
	Micro scratch	EN 16094	≤ MSR-A3	Compliant
	Resistance to staining	EN 438-2	Group 1 and 2: grade 5,	
			group3: grade 4	Compliant
M F1700	Residual indentation	ASTM F1914	Ave≤8% (140lbs/63.5kg);max ≤10%	Compliant
	Resistance to chemicals	ASTM F925	Slight change only	Compliant
	Resistance to light	ASTM F1514	∆E ≤8	Compliant
14041	Thermal resistance (R)	EN 12667/ASTM C518	NA	Suitable for underfloor heating systems
	Slipperiness	EN 13893	≥ 0.3	Compliant
	Reaction to fire	EN 13051-1	NA	Class Bfl -S1
ers	Density	ISO 23996	NA	Around 1950 kg/m3
	Resistance to light	ISO 105-B02:1994,	≥ Grade 6	Compliant
	Slipperiness	DIN 51130	≥R9	R9
	Fire resistance (CHF)	ASTM E648/NFPA 253	≥0.45	Class 1

LEED SCORECARD

LEED was developed to address all buildings everywhere, regardless of where they are in their life cycle. From hospitals to data centers, from historical buildings to those still in the design phase, there is a LEED certification programm for every building. Our products will contribute value to a building's LEED v4 Scorecard in the following LEED certification programm categories recognized by the USGBC as per following

LEED Programme Certifcation	Category	Credit Title	LEED Points Attainable	Credit Description	How our product contributes to obtaining LEED points
BD+C	Indoor Environmental Quality	Credit 1: Enhanced Indoor Air Quality Strategies – Option 2 Additional Enhanced IAQ Strategie – option D	1 point ID&C, 2 points Retail Cl	To reduce concentrations of chemical that can damage air quality, human health, productivity, and the environment.	 Formaldehyde emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. The product is GreenGuard Gold certified.
Building Design and Construction		Credit 2: Low-Emitting Materials – Option1 Flooring	1 point		1. VOC emission are less than 0.5mg/m3. 2. The products is GreenGuard Gold certified.
		Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing	2 points	To establish better quality indoor air in the building	 Formaldehyde emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. The product is GreenGuard Gold certified.
		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	 The product is 100% REACH compliant Formaldehyde emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. 3. Test repost according to ISO 16000 is available on request. The product is GreenGuard Gold certified.
HOMES	Indoor Environmental Quality	Credit 2: Contaminant Control – Option 4 Air Testing	1 point	Demonstrate that contaminants do not exceed concentration levels listed	The products is GreenGuard Gold certified.
Homes		Credit 7: Low-Emitting Materials	0.5 point	To reduce occupants' exposure to airborne chemical contaminants	The product is GreenGuard Gold certified and meet the requirements of CA Section 01350. The product is made with ULEF or non-added formaldehyde material
	Material & Resource	Prerequiste – Durability management	0 point (Prerequiste)	To promote durability and performance of the building	The product is water resistant

ID+C	Indoor Environmental Quality	Credit 1: Enhanced Indoor Air Quality Strategies – Option 2 Additional Enhanced IAQ Strategies – option D		To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.	 Formaldehyde emission are less than 0.05mg/m3, TVDCs are less than 0.5mg/m3. The product is GreenGuard Gold certified.
		Credit 2: Low-Emitting Materials – Option1 Flooring	1 point		 VOC emission are less than 0.5mg/m3. The products is GreenGuard Gold certified.
Interior Design and Construction		Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing	2 points	To establish better quality indoor air in the building	 Formaldehyde emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. The product is GreenGuard Gold certified.
	Material & Resource	Credit 4: Material ingredient- Option 2	1 point	Minimize the use and generation of harmful substances	The product is 100% REACH compliant

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.

acet	Feature	Part	Requirements	Concept score	How our product contribute to obtain WELL level certification
01. Air quality standards	1. Standards For Volatile Substances	The following conditions are met: a. Formaldehyde levels less than 27ppb (0.027ppm)	PRECONDITION	a. Formaldehyde emission are less than 0.05mg/m3. b. The total volatile organic compounds are less than	
			b. Total volatile organic compounds less than 500ug/m3 (0.5mg/m3)		0.5mg/m3.
04. VOC Reduction	04. VOC Reduction	1. Interior Paints and Coatings	The VOC limits of newly applied paints and coating meet one of the following requirements:	PRECONDITION	a. The VOC limits for California Air Resources Board (CARB) are less than 0.11ppm.
			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.		 b. Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m3 (in compliance with CDPH/EHLB Standard Method v1.1- 2010). The product is GreenGuard Gold certified
			b. At minimum 90%, by volume, meet the California Department of Public Health (CDPH) Standard Method v1.1- 2010 for VOC emissions		
		3. Flooring	The VOC emissions of all newly installed flooring must meet all limits set by the following, as applicable:	PRECONDITION	Conforms to the CDPH/EHLB Standard Method v1.1-2 (California Section 01350), effective January 1, 2012, f the school classroom and private office parameters w modeled as Flooring.
			a. California Department of Public Health (CDPH) Standard Method v1.1- 2010.	-	The product is GreenGuard Gold certified
11. Fundamental Materia Safety 25. Toxic Material Reduction		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 contain less than 100 ppm.
		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.		The product contain less than 90 ppm.
		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 contain less than 90 ppm.
		2. Flame Retardant Limitation	Halogenated flame retardants are limited in the following components to 0.03% (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. e. Upholstered furniture and furnishings, textiles and fabrics.	OPTIMIZATION	The product don't contain halogenated flame retarda
		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.		In accordance with US Consumer Product Safety Improvement Act 2008 (CPSIA) (H.R.4040) Title I, Sect 108 & California Proposition 65 & Annex XV II item 51 of the REACH Regulation (EC) No. 1907/2006 and amendment No. 552/2009, the product contains less 100ppm.
		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.