

SPC Flooring Spec Sheet

TECHNICAL SPECIFICATIONS

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	Product type Overall thickness Wear layer Finish	SPC (Rigid LVT) 7.5mm 0.7mm Anti-microbial NaturTrend Finish		Installation Bevel Backing type and thickness	Floating (Tight Lock) Painted bevel 1mm IXPE		
CLASS OF USE		ſY					
	Domestic Domestic Warranty	23 Heavy Lifetime Limited		Commercial Commercial Warranty	34 Heavy 15 Years Limited		
CERTIFICATIONS							
	CE Mark UKCA Mark IAC Gold	Compliant Compliant Compliant		GreenGuard Gold Product Health Declaration Assure	Compliant Compliant Compliant		
CHEMICAL PROPERTIES							
	Norm EN 14041 Decret No.2011-321 CDPH CPSIA & Prop 65	Item Emissions Emissions Emissions Ortho-Phthalates	Test Method EN 717-1 ISO 16000 Spectrometry, chromatography CPSC-CH-C-1001-09.4	Requirement ≤0.124mg/m3 VOC A+ (TVOC<1000µg/m3) TVOC ≤220µg/m3 N.D.	Result Compliant Compliant Compliant Compliant Compliant		
REACH SVHC Spectrometry, chromatography ≤0.1% Compliant PHYSICAL PROPERTIES <							
	Norm	Item	Test Method	Requirement	Result		
	ISO 10582	Dimensional stability (6hrs at 80°C)	ISO 23999 ISO 23999	∆W/∆L ≤0.15% Curling: ≤1mm	Compliant Compliant		
		Length	ISO 24342	≤0.15% of nominal L up to max 0.5mm	Compliant		
		Width	ISO 24342	≤0.1% of nominal L up to max 0.5mm	Compliant		
		Total thickness (with backing)	ISO 24346	+0.13mm/-0.1mm	Compliant		
		Squareness	ISO 24342	≤0.25mm/≤400mm ≤0.35mm/≥400mm	Compliant		
		Flatness	ISO 10582 Appendix B	Length: ≤0.50% (concave) / ≤1.0% (convex) Width: ≤0.10%(concave) / ≤0.15% (convex)	Compliant		
		Openings	ISO 10582 Appendix C	Average ≤0.15mm / Max ≤0.2mm	Compliant		
		Height difference	ISO 10582 Appendix C	Average ≤0.1mm / Max ≤0.15mm	Compliant		
		Residual indentation	ISO 24343-1	≤0.1mm	Compliant		

	Flatness	ISO 10582 Appendix B	Width: ≤0.10%(concave) / ≤0.15% (convex)	Compliant
	Openings	ISO 10582 Appendix C	Average ≤0.15mm / Max ≤0.2mm	Compliant
	Height difference	ISO 10582 Appendix C	Average ≤0.1mm / Max ≤0.15mm	Compliant
	Residual indentation	ISO 24343-1	≤0.1mm	Compliant
	Castor chair	ISO 4918	Heavy Commercial 25,000R	Compliant
	Light fatness (Blue wool)	ISO 105-B02:2014 Method 3A	≥Grade 6	Compliant
	Locking strength	ISO 10582 Appendix D	≥1.5 KN/m	Compliant
EN 16511	Wear resistance	EN 13329	≥6000 cycles (AC5)	Compliant
	Impact resistance	EN 13329 Annex A	≥1600mm	Compliant
	Martindale (Gloss retantion)	EN 16094	≤MSR-A2	Compliant
	Martindale (Micro-scratch)	EN 16094	≤MSR-B2	Compliant
	Furniture leg	EN 424	No visible damage	Compliant
	Resistance to staning	EN 438-2	Group 1 and 2: Grade 5 Group 3: Grade 4	Compliant
	Swelling	ISO 24336	≤12%	Compliant
EN 14041	Thermal Resistance (R)	EN 12664/ASTM C518	N/A	0.047 (m2.K)/W
	Slipperiness	EN 13893	≥0.3	Compliant
	Reaction to fire	EN 13501-1	Class Bfl -S1	Compliant
	Electrical behavior	ISO 1815	≪2kV	Compliant
OTHERS	Slipperiness	DIN 51130	≥R9	Compliant
	Airborne sound transmission	ISO 10140-2	N/A	67 dB
	Impact sound transmission	ISO 10140-3	N/A	43 dB
	Impact sound transmission - Reduction	ISO 10140-1	N/A	19 dB
	Resistance to staning	EN423	Not affected	Compliant

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 CI	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		 VOC emission are less than 0.5mg/m3. 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	1. Formaldehyde emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. 2. The product is GreenGuard Gold certified.
		Credit 9: Acoustic Performance	2 points	To provide effective acoustic design	The product has a high acoustic performance. Rw and Lnw test report 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	 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	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 emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. 2. The product is GreenGuard Gold certified.
Interior Design and Construction		Credit 2: Low-Emitting Materials – Option1 Flooring	1 point		 VOC emission are less than 0.5mg/m3. 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 9: Acoustic Performance	2 points	To provide workspaces and classrooms effective acoustic design	The product has a high acoustic performance. Rw and Lnw test report 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

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.

Facet	Feature	Part	Requirements	Concept score	How our product contribute to obtain WELL level certification
AIR	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. Total volatile organic compounds less than 500ug/m3 (0.5mg/m3)		b. The total volatile organic compounds are less than 0.5mg/m3.

	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		
			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 v1.1-2010 (California Section 01350), effective January 1, 2012, for the school classroom and private office parameters when modeled as Flooring.
			a. California Department of Public Health (CDPH) Standard Method v1.1-2010.		The product is GreenGuard Gold certified
	11. Fundamental Material Safety	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.	PRECONDITION	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.
	25. Toxic Material Reduction		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. e. Upholstered furniture and furnishings, textiles and fabrics.	OPTIMIZATION	The product don't contain halogenated flame retardants
		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 51852 of the REACH Regulation (EC) No. 1907/2006 and amendment No. 552/2009, the product contains less than 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.
Comfort	74. Exterior Noise Intrusion	Part 1. Sound Pressure Level	Each regularly occupied space meets the following sound pressure level as mesured 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	 The product has Lnw = 43dB according to the standard ISO 10140-3 The product has Rw = 67dB according to the standard ISO 10140-2



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 1. The product has Lnw = 43dB according to the standard ISO 10140-3 2. The product has Rw = 67dB according to the standard ISO 10140-2

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