

Specification Sheet RLVT

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TECHNICAL	CDECIEICATIONS	

ersion: EU

Last update: 11/23/2020

Bevel	Painted bevel	Class of Use (ISO 10582) Class 31
Lock	Herringbone	Installation Floating
Layer	Thickness (mm)	Туре
Top Layer	0.55	Wear layer with an anti-bacterial ceramic bead enhanced UV finish
Core	3.45	Waterproof thermoplastic composite
Backing Layer	1.00	Cork
Total	5.00	

CERTIFICATIONS & CHEMICAL PROPERTIES

Norm	Item	Test method	Requirement	Result
EN 14041	Formaldehyde emissions	EN 717-1	≤ 0.124 mg/m3	E1
Decret No2011-321	VOC emissions	ISO 16000	TVOC<1000μg/m3	VOC A+
GreenGuard Gold	VOC emissions	Spectrometry, chromatography	TVOC≤220µg	Certified
Prop 65	Ortho-Phthalates	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

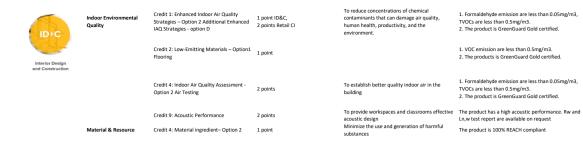
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Norm	Item	Test Method	Requirement	Result
ISO 10582	Dimensional stability	ISO 23999	≤ 0.15%	Compliant
	Curling	ISO 23999	≤1mm	Compliant
	Length tolerance	ISO 24342	≤ 0.15% of nominal length up to 0.5 mm max.	Compliant
	Width tolerance	ISO 24342	≤ 0.10% of nominal width up to 0.5 mm max.	Compliant
	Thickness tolerance	ISO 24346	+0.13mm	Compliant
			-0.10mm	
	Squareness and straightness	ISO 24342	≤0.25mm/≤400mm	Compliant
	-		≤0.35mm/>400mm	·
	Flatness	ISO 10582 Appendix B	Length: ≤ 0.50% (concave) ≤ 1.0% (convex)	Compliant
			Width: ≤ 0.10%(concave) ≤ 0.15% (convex)	•
	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	Suitble for moderate class of use
	Resistance to light	ISO 105-B02:2014	≥ Grade 6	Compliant
EN 16511	Wear resistance	EN 13329	≥4000 cycles	Compliant
	Impact resistance	EN 13329 Annex A	≥1600mm	Compliant
	Micro scratch	EN 16094	≤ MSR-A2	Compliant
	Resistance to staning	EN 438-2	Group 1 and 2: Grade 5	
			Group 3: Grade 4	Compliant
	Swelling	ISO 24336	≤12%	Compliant
ASTM F3261	Surface integrity	ASTM F1914	No puncture	Compliant
	Residual indentation	ASTM F1914	≤0.18mm (70lbs/34kg)	Compliant
	Static load	ASTM F970/ASTM F387	≤0.13mm	Compliant
	Resistance to light	ASTM F1514	∆E ≤8	Compliant
NALFA LF 01-2011	Resistance to chemicals	NALFA LF 01-2011	Slight change only	Compliant
	Impact resistance	NALFA LF 01-2011 3.5	≥ 1400mm	Compliant
	Impact resistance	NALFA LF 01-2011 3.6	≥ 500mm	Compliant
EN 14041	Thermal resistance (R)	EN 12667/ASTM C518	< 0.15m2.K/W	Suitable for underfloor heating systems
	Slipperiness	EN 13893	≥ 0.3	Compliant
	Reaction to fire	EN 13051-1	N/A	Class BfI -S1
Others	Density	ISO 23996	N/A	Around 1650kg/m3
	Airborne sound transmission	ISO 10140-2	N/A	67 dB
	Impact sound transmission	ISO 10140-3	N/A	42 dB
	Impact sound transmission - reduction	ISO 10140-1	N/A	18 dB
	Slipperiness	DIN 51130	≥R9	R10
	Fire resistance (CHF)	ASTM E648/NFPA 253	≥0.45	Class 1
	Rolling Load	ASTM F2753	NA NA	500cvcles(0.005inch)

LEED SCORECARD

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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 Certification	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 9: Acoustic Performance	2 points	To provide effective acoustic design	The product has a high acoustic performance. Rw and Ln,w test report are available on request
		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
		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
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. Text repost according to 150 (15000 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



Credit 4: Material ingredient– Option 2 1 point

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
AIR 01. Air quality standards	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/m3 (0.5mg/m3)	PRECONDITION	 a. Formaldehyde emission are less than 0.05mg/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		 Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m3 (in compliance with COPH/EHLB Standard Method v1.1-2010). The product is GreenGuard Gold certified 	
		3. Flooring	VOC content. 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 Banuary 1, 2012, for the school classroom and private office
			California Department of Public Health (CDPH) Standard Method v1.1-2010.		parameters when modeled as Flooring. 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	No asbestos 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	PRECONDITION	The product contain less than 90 ppm.
	25. Toxic Material Reduction	2. Flame Retardant Limitation	abatement. Halogenated flame retardants are limited in the following components to 0.01% (100 pm) 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 DNDP (often found in pophymy 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		In accordance with US Consumer Product Safety Improvement Act 2008 (CPSIA) (H.R.4040) Title I, Section 108 & California Proposition 58 & Annex XV Item 51&52 of the REACH Regulation (EC) No. 1907/2006 and amendment No. 552/2009, the product contains less than 100ppm.	
		5. Urea-Formaldehyde Restriction	barriers. Urea-formaldehyde presence is limited in the following components to 100 ppm: a. Furniture or any composite wood products. b. Laminating adhesives and resins.	OPTIMIZATION	The product contains urea-formaldehyde less than 100ppm.
Comfort	74. Exterior Noise Intrusion	n Part 1. Sound Pressure Level	c. Thermal insulation. 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		The product has Ln,w =42db according to the standard ISO 10140-3 The product has Rw=67db according to the standard ISO 14140-2
	79. Internally Generated Noise	Part 1. Sound Masking Limits	outside noise intrusion does not exceed 50 dBA. 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.		1. The product has Ln, w =42db according to the standard ISO $1040-3$ 2. The product has Rw=67db according to the standard ISO $14140-2$

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