

CALLISTO SPC

DECOR

Last update: 4/2/2020

Version: EU

TECHNICAL SPECIFICATIONS

Painted UFH See IM

Devei	Paliteu	OFF See IIVI			
Lock	Tight lock	Installation Floating			
Layer	Thickness (mm)	Туре			
Top Layer	0.50	Ceramic bead enhanced UV coating			
Core	3.50	Waterproof thermoplastic composite			
Backing Layer	1.50	IXPE			
T. 1.1					

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

Norm	Item	Test Method	Requirement	Result
ISO 10582	Dimensional Stability	ISO 23999	$\Delta W/\Delta L \leqslant 0.15\%$	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 -0.10mm	Compliant
	Squareness and Straightness	ISO 24342	≤0.25mm/≤400mm ≤0.35mm/≥400mm	Compliant
	Flatness	ISO 10582 Appendix B	Length: \leqslant 0.50% (concave) \leqslant 1.0% (convex) Width: \leqslant 0.10%(concave) \leqslant 0.15% (convex)	Compliant
	Openings between tiles/planks	ISO 10582 Appendix C	0.15mm	Compliant
	Height difference between tiles/planks	ISO 10582 Appendix C	0.1mm	Compliant
	Residual Indentation	ISO 24343-1	≤0.1mm	NA
	Castor chair	ISO 4918	Slight change only	NA
	Resistance to Light	ISO 105-B02:2014	≥ Grade 6	Compliant
		ASTM F1515	∆E ≤8	Compliant
	Locking strength	ISO 10582 Appendix D	1.5 KN/m	Meet commercial requirements
N 16511	Wear resistance	EN 13329	≥4000 cycles	Compliant
	Impact resistance	EN 13329 Annex A	≥1600mm	Compliant
	Micro scratch	EN 16094	≤ MSR-A2, ≤ MSR-B2	Compliant
	Furniture leg	EN 424	No visible damage	Compliant
	Resistance to staning	EN 438-2	Groups 1 and 2: grade 5; Group 3: grade 4	Compliant
	Swelling	ISO 24336	≤12%	Compliant
STM F3261	Surface Integrity	ASTM F1914	No puncture	Meets commercial requirements
	Residual Indentation	ASTM F1914	≤0.18mm (70lbs/34kg)	Meets commercial requirements
	Static load	ASTM F970/ASTM F387	≤0.13mm	NA
	Resistance to light	ASTM F1514	∆E ≤8	Meets commercial requirements
IALFA LF 01-2011	Resistance to Chemicals	NALFA LF 01-2011	Slight change only	Class 4, meets commercial requirement
	Impact Resistance	NALFA LF 01-2011 3.5	≥ 1400mm	Class 4, meets commercial requirement
	Impact Resistance	NALFA LF 01-2011 3.6	≥ 500mm	Class 4, meets commercial requirement
N 14041	Thermal Resistance (R)	EN 12667/ASTM C518	NA	Suitable for underfloor heating systems
	Slipperiness	EN 13893	≥ 0.3	Pass
	Reaction To fire	EN 13051-1	NA	Class Bfl -S1
	Static Electrical Propensity((voluntary))	EN 1815	≤ 2.0kV	NA
thers	Density	ISO 23996	NA	1500kg/m3
	Airborne sound transmission	ISO 10140-2	NA	68db
	Impact sound transmission	ISO 10140-3	NA	42db
	Impact sound transmission - Reduction	ISO 10140-1	NA	20db
	Slipperiness	DIN 51130	NA	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	Category	Credit Title	LEED Points Attainable	Credit Description	How our product contributes
Certifcation	· ,			·	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 0.5 mg/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

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Material & Resource

Credit 3: Purchasing - Facility maintenance and renovation

To reduce the environmental harm from materials used in building renovations

1. The product is 100% REACH compliant 2. 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.

3. The product is GreenGuard Gold certified.

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Credit 2: Contaminant Control – Option 4 Air 1 point Quality Testing

Flooring

Option 2 Air Testing

Demonstrate that contaminants do not exceed concentration levels listed

The products is GreenGuard Gold certified.

Credit 7: Low-Emitting Materials

To reduce occupants' exposure to airborne chemical contaminants

To promote durability and performance of the

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



Indoor Environmental

Material & Resource

Material & Resource

Credit 1: Enhanced Indoor Air Quality Strategies – Option 2 Additional Enhanced IAQ Strategies - option D

Credit 2: Low-Emitting Materials - Option1

Credit 4: Indoor Air Quality Assessment -

Prerequiste – Durability management

1 point ID&C. 2 points Retail CI

0 point (Prerequiste)

To reduce concentrations of chemical contaminants that can damage air quality, huma 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 Goldcertified.

The product is water resistant

1. VOC emission are less than 0.5mg/m3.

2. The products is GreenGuard Gold certified.

building

1. Formaldehyde emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3.

To establish better quality indoor air in the building

2. The product is GreenGuard Goldcertified. The product has a high acoustic performance.

To provide workspaces and classrooms effective Credit 9: Acoustic Performance 2 points acoustic design

Rw and Ln,w test report are available on request

Credit 4: Material ingredient- Option 2

1 point

2 points

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 organiccompounds less than 500ug/m3 (0.5mg/m3)		b. The total volatile organic compounds are less than 0.5 mg/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		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
			Management District (SCAQMD) Rule 1113, effective June 3, 2011 for VOC content.		,
			b. At minimum 90%, by volume, meet the California Department of Public Health (CDPH) Standard Method v1.1-2010 for VOCemissions		
		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	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.
			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.		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	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. e. Upholstered furniture and furnishings, textiles andfabrics.	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 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	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 Ln,w =42db according to the standard ISO 10140-3 The product has Rw=68db according to the standard ISO 14140-2
	79. Internally Generated Noise	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	The product has Ln,w =42db according to the standard ISO 10140-3 The product has Rw=68db according to the standard ISO 14140-2

END OF DOCUMENT