SPC Flooring Spec Sheet

Version: ROW *Country of Origin:* Made in China *Last update:* 30.05.2023

TECHNICAL SPECIFICATIONS

Product type	SPC (Rigid LVT)	**Installation**	Floating (Tight Lock)
Overall thickness	5.0mm	**Bevel**	Painted bevel on 4 sides
Wear layer	0.55mm	**Backing type and thickness**	1mm IXPE
Finish	Anti-microbial NaturTrend Finish		

CLASS OF USE AND WARRANTY

Domestic	23 Heavy	**Commercial**	31 Moderate
Domestic Warranty	Lifetime Limited	**Commercial Warranty**	15 Years Limited

ENVIRONMENTAL IMPACT

Life Cycle Assesment	Oct 2022	**Environmental Product Declaration**	Oct 2022 - Oct 2027

CERTIFICATIONS

CE Marking	Certified	**GreenGuard Gold**	Certified
UKCA Marking	Certified	**Product Health Declaration**	Platinum level
IAC Gold	Certified	**Assure**	Certified

CHEMICAL PROPERTIES

Norm	Item	Test Method	Requirement	Result
EN 14041	Emissions	EN 717-1	≤0.124mg/m3	Compliant
Decret No.2011-321	Emissions	ISO 16000	VOC A+ (TVOC<1000μg/m3)	Compliant
CDPH	Emissions	Spectrometry, chromatography	TVOC ≤220μg/m3	Compliant
CPSIA & Prop 65	Ortho-Phthalates	CPSC-CH-C-1001-09.4	N.D.	Compliant
REACH	SVHC	Spectrometry, chromatography	≤0.1%	Compliant

PHYSICAL PROPERTIES

Norm	Item	Test Method	Requirement	Result
ISO 10582	Dimensional stability (6hrs at 80℃)	ISO 23999	ΔW/ΔL ≤0.15%	Compliant
		ISO 23999	Curling: ≤1mm	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
	Castor chair	ISO 4918	Moderate Commercial 15,000R	Compliant
	Light fastness (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	≥4000 cycles (AC4)	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 staining	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	NA	Compliant
	thermal Conductivity	EN 12664/ASTM C518	NA	Compliant
	Slipperiness	EN 13893	≥0.3	Compliant
	Reaction to fire	EN 13501-1	Class Bfl -s1	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	42 dB*
	Impact sound transmission - Reduction	ISO 10140-1	N/A	18 dB*
	Resistance to staining	EN423	Not affected	Compliant

**Acoustic performance results are provided for reference only.*

LEED SCORECARD

How our products fit into LEED v4:

	Credit Type	Points	Criteria	Product Contribution
LEED BD+C and ID+C	**EQ Credit: Low-Emitting Materials**	**1-3 points**	Option 1. Product has been tested according to California Department of Public Health (CDPH) Standard Method v1.2–2017 and complies with the VOC limits in Table 4-1 of the method. Additionally, the range of total VOCs after 14 days (336 hours) was measured as specified in the CDPH Standard Method v1.2 and is reported (TVOC ranges: 0.5 mg/m3 or less, between 0.5 and 5 mg/m3, or 5 mg/m3 or more).	CFL Rigid Core products are GreenGuard Gold and/or FloorScore certified.

		Option 2. Product has been tested according to EN 16516:2017 and complies with the LCI values from Table 1 of the German AgBB Testing and Evaluation Scheme (2015) and a formaldehyde limit of 10 micrograms per cubic meter. Additionally, the range of total VOCs after 28 days was measured as specified in EN 16516 and reported (TVOC ranges: 0.5 mg/m3 or less, between 0.5 and 5 mg/m3, or 5 mg/m3 or more).	CFL Rigid Core products are IAC Gold certiifed, including compliance with German AgBB testing.
MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations	1 point	Option 1. Environmental Product Declaration (EPD) Environmental Product Declarations which conform to ISO 14025 and EN 15804 or ISO 21930 and have at least a cradle to gate scope. Product-specific Type III EPD -- Products with third-party certification (Type III), including external verification and external critical review are valued as 1.5 products for the purposes of credit achievement calculation.	CFL SPC (Made in China) LCA - Oct 2022; CFL SPC (Made in China) EPD - Oct 2022 - Oct 2027.
MR Credit: Building Product Disclosure and Optimization – Material Ingredients	**1 point**	Option 1. Material Ingredient Reporting Health Product Declaration. The end use product has a published and complete Health Product Declaration with full disclosure of known hazards in compliance with the Health Product Declaration open Standard.	CFL SPC (Made in China) Health Product Declaration - HealthRate Platinum (by GreenTag).
		Option 2: Material Ingredient Optimization International Alternative Compliance Path – REACH Optimization (value at 100% of cost or 1 product). End use products and materials have fully inventoried chemical ingredients to 100 ppm and assess each substance against the Authorization List – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list, (the version in effect June 2013,) proving that no such substance is included in the product. If the product contains no ingredients listed on the REACH Authorization, Restriction, and Candidate list.	CFL products are 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) 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: 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. At minimum 90%, by volume, meet the California Department of Public Health (CDPH) Standard Method v1.1-2010 for VOC emissions	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/m3 (in compliance with CDPH/EHLB Standard Method v1.1-2010). The product is GreenGuard Gold certified
		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 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	**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 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 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	1. The product has Lnw = 42dB according to the standard ISO 10140-3 2. The product has Rw = 67dB according to the standard ISO 10140-2
	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	1. The product has Lnw = 42dB according to the standard ISO 10140-3 2. The product has Rw = 67dB according to the standard ISO 10140-2

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