# **TECHNICAL SPECIFICATIONS**

Overall Thickness Wear Layer Finish Installation Bevel GridTech Backing Type And Thickness Residential Warranty Commercial Warranty

(R)

The Sound Choice in Waterproof Floors

7.5mm
22mil (0.55mm)
Scratch Shield Max
Floating (Tight Lock)
Painted Bevel On 4 Sides
Yes
1mm Cork
Lifetime Limited
15 Year Limited

asabella

## **PROPERTIES**

ASTM D6007 - Emissions ISO 16000 - Emissions Spectrometry, Chromatography - Emissions CPSC-CH-C-1001-09.4 - Ortho-Phthalates ASTM F963 - Heavy Metal ASTM F1914 - Surface Integrity ASTM F2199/ISO 23999 - Dimensional Stability ISO 24337 - Length ISO 24337 - Width ASTM F387 - Total Thickness ISO 24337 - Openings ISO 24337 - Height Difference Planks: ASTM F2055 - Squareness Tiles: ASTM F2421 - Squareness ISO 24337 - Flatness ASTM F1914 - Residual Indentation ASTM F970 - Residual Indentation ASTM F925 - Resistance To Chemicals ASTM F1515 - Resistance To Light ASTM F1514 - Resistance To Heat ASTM F3261 - Thickness Swell ASTM F1914 - Residual Indentation ASTM E413-16 - Airborne Sound Transmission ASTM E989-6 - Impact Sound Transmission ASTM E2190-16 - Reducing Impact Sound - Transmission ASTM C1028 - Slip Resistance (SCOF) ASTM E648 - Critical Radiantflux

Compliant 69\* 69\* 25\* Compliant Compliant



## www.casabellafloors.com



Version: USA

**Specification Sheet** 

NCQ



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#### TECHNICAL SPECIFICATIONS

Bevel Lock	Painted bevel Tight lock		Class of use (ISO 10582) Installation	Commercial Floating		
Layer	Thickness (mm)	Thickness (mil)	Туре			
Top layer	1.8	1.8 71		Wear layer with a slip-resistant, anti-microbial ceramic bead enhanced UV finish		
Middle layer	0.8	31	Acoustic layer			
Core	3.9	154	Waterproof thermoplastic composite			
Backing layer	1.0	39	Cork			
Total	7.5	295				

### **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
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
ASTM F3261	Surface integrity	ASTM F1914	No puncture	Compliant
	Dimensional stability	ASTM F2199/ISO 23999	$\Delta W/\Delta L \le 0.2\%$ (commercial)	Compliant
	Curling	ASTM F2199/ISO 23999	≤2mm	Compliant
	Length tolerance	ISO 24337	±2 mm	Compliant
	Width tolerance	ISO 24337	± 0.4mm	Compliant
	Thickness tolerance ASTM F387 ±0.13mm (no backing);		Compliant	
			±0.20mm (with backing)	Compliant
	Squareness	ISO 24337	0.25mm	Compliant
	Flatness	ISO 24337	Length: $\leq$ 0.50% (concave) $\leq$ 1.0% (convex)	
			Width: ≤ 0.15%(concave) ≤ 0.15% (convex)	Compliant
	Residual indentation	ASTM F1914	≤0.18mm (70lbs/34kg)	Compliant
	Resistance to chemicals	ASTM F925	Slight change only	Compliant
	Resistance to heat	ASTM F1515	∆E ≤8	Compliant
	Resistance to light	ASTM F1514	∆E ≤8	Compliant
	Thickness swelling	ASTM F3261	≤2 % swell – no attached back	
			≤5 % swell – with attached back	Compliant
ASTM F1700*	Residual indentation	ASTM F1914	≤ 8% (140 lbs/63.5kg)	Compliant
	Dimensional stability	ASTM F2199	ΔW/ΔL ≤ 0.16%	Compliant
ISO 10582	Residual indentation	150 24343-1	≤ 0.1mm	Compliant
	Resistance to light	ISO 105-B02:2014	≥ Grade 6	Compliant
	Locking strength	ISO 10582 Appendix D	≥1.5KN/m(only for commercial )	Compliant
	Castor chair	ISO 4918	Only slight change	Compliant
NALFA LF 01-2011	Resistance to chemicals	NALFA LF 01-2011 3.4	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	Compliant
	Slipperiness	EN 13893	≥ 0.3	Compliant
	Reaction to fire	EN 13501-1	NA	Class Bfl –S1
Others	Density	ISO 23996	NA	Around 1550kg/m3
	Airborne sound transmission	ASTM E413-16	≥50	69
	Impact sound transmission	ASTM E989-6	≥50	69
	Reducing impact sound transmission	ASTM E2190-16	NA	25
	Slipperiness	DIN 51130	NA	R10
	Fire resistance (CHF)	ASTM E648/NFPA 253	≥0.45	Class 1

\*Note: Only tests specific to ASTM F1700 are listed here; for tests and requirements similar to ASTM F3261, please refer to the tests under that standard

#### 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.	<ol> <li>Formaldehyde emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3.</li> <li>The product is GreenGuard Gold certified.</li> </ol>
Building Design and Construction		Credit 2: Low-Emitting Materials – Option1 Flooring	1 point		<ol> <li>VOC emission are less than 0.5mg/m3.</li> <li>The products is GreenGuard Gold certified.</li> </ol>
		Credit 4: Indoor Air Quality Assessment - Option 2 Air Testing	2 points	To establish better quality indoor air in the building	<ol> <li>Formaldehyde emission are less than</li> <li>OSmg/m3, TVOCs are less than 0.5mg/m3.</li> <li>The product is GreenGuard Gold certified.</li> </ol>
		Credit 9: Acoustic Performance	2 points	To provide effective acoustic design	The product has a high acoustic performance. IIC and STC test report are available on request
	Material & Resource	Credit 3: sourcing of raw material - Recycled Content – Option 2	1 point	Increase demand for building products that incorporate recycled content materials	The products has a Natural Cork Underlay pre attached. Natural cork underlay contains at least 95% pre-consumer content
		Credit 4: Material ingredient– Option 2 Credit 6 – PBT source reduction: lead, cadmium and copper	1 point 1 point	Minimize the use and generation of harmful substances To reduce the release of persistent, bioaccumulative, and toxic chemicals	The product is 100% REACH compliant 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     Tormaldehyde emission are less than     O.Smg/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 formaldehvde material
	Material & Resource	Prerequiste – Durability management	0 point (Prerequiste)	To promote durability and performance of the building	The product is water resistant
(D+C	Indoor Environmental Quality	Creant 1: Ennancea Indoor Air Quality Strategies – Option 2 Additional Echapach IAO Scratteria and D Credit 2: Low-Emitting Materials – Option1 Floorine	1 point ID&C, 2 points Retail Cl 1 point	health anodustivity and the equirement	Formaldenyde emission are less than     0.05mg/m3, TVOCs are less than 0.5mg/m3.     Tho product is Conclusional Cold actified     VOC emission are less than 0.5mg/m3.     The products is GreenGuard Gold certified.     Formaldenyde emission are less than
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	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 workspaces and classrooms effective acoustic design	The product has a high acoustic performance. IIC and STC 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.

et	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. The total volatile organic compounds are let
	04. VOC Reduction	1. Interior Paints and Coatings	b. Total volatile organic compounds The VOC limits of newly applied paints and coating meet one of the following requirements:	PRECONDITION	than 0.5mg/m3. 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 t 0.5 mg/m3 (in compliance with CDPH/EHB Standard Method v1.1-2010). The product is GreenGuard Gold certified
		3. Flooring	b. At minimum 90%, by volume, meet 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 Methor v1.1-2010 (California Section 01350), effective January 1, 2012, for the school classroom and private office parameters when modeled as
			a. California Department of Public Health (CDPH) Standard Method v1.1-		Flooring.
s	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	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	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	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 0.015 (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.	OPTIMIZATION	The product don't contain halogenated flame retardants
		3. Phthalate (Plasticizers) Limitation	b Ubbeltscott distinguished DEHP, DEP, BEP, BEP, 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.	OPTIMIZATION	In accordance with US Consumer Product Safe Improvement Act 2008 (CPSIA) (H.R.4040) Titl I, Section 108 & California Proposition 65 & Annex XVI II item 51&52 of the REACH Regulation (EC) No. 1907/2006 and amendme No. 552/2009, the product contains less than 100ppm.
		5. Urea-Formaldehyde Restriction	<ul> <li>c. Plumbing pipes and moisture</li> <li>Urea-formaldehyde presence is</li> <li>limited in the following components</li> <li>to 100 ppm:</li> <li>a. Furniture or any composite wood</li> <li>products</li> </ul>	OPTIMIZATION	The product contains urea-formaldehyde less than 100ppm.
Comfort	74. Exterior Noise Intrusion	Part 1. Sound Pressure Level	products. b. Laminating adhesives and resins. 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:	PRECONDITION	<ol> <li>The product has IIC = 69 according to the standard ASTM E492-09</li> <li>The product has STC = 69 according to the standard ASTM E90-09</li> </ol>
	79. Internally Generated Noise	Part 1. Sound Masking Limits	a. Average sound pressure level from	OPTIMIZATION	<ol> <li>The product has IIC = 69 according to the standard ASTM E492-09</li> <li>The product has STC = 69 according to the standard ASTM E90-09</li> </ol>