

Allegro X - 2mm 0.3mm Wear Layer/Micro bevel #Surfaces



Version: EU Last update: 2/21/2019

TECHNICAL SPECIFICATIONS

Bevel	4s micro bevel	UFH	See IM			
Lock	NA	Installation	Glue down			
Layer	Thickness (mm)	Туре				
Top Layer	0.30	Quartz enhanced UV cured coating				
Core	1.70	Waterproof thermoplastic composite	Waterproof thermoplastic composite			
Backing Layer	/					
Total	2.0					

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	GreenGuard Gold 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
ISO 16511	Length tolerance	ISO 24337	≤0.5mm if L≤1500mm; ≤0.3mm/m if L≥1500mm	Pass
	Width tolerance	ISO 24337	≤0.1mm	pass
	Thickness	ISO 24337	≤0.5mm	pass
	Length and width of squared element	ISO 24337	≤0.1mm	pass
	Squareness	ISO 24337	≤0.2mm	pass
	Straightness	ISO 24337	≤0.3mm/m	pass
	Flatness	ISO 24337	Length: ≤ 0.50% (concave) ≤ 1.0% (convex)	Pass
			Width: \leq 0.15%(concave) \leq 0.2% (convex)	
	Opening	ISO 24337	O _{ave} ≤0.15	Pass
	Height difference	ISO 24337	H _{ave} ≤0.10	Pass
	Wear Resistance	EN 13329	≥2000R	Pass Pass
	Impact Resistance	EN 13329	≥1600mm	
	Micro Scratch	EN 16094	NA	Pass
	Castor chair	EN 425	Only slight change	Pass
	Furniture leg	EN 424	No visible change	Pass
	Residual Indentation	ISO 24343-1	≤ 0.15mm Group I aliu 2. graue 5,	Pass
	Resistance to staining	EN 438-2	Group 1 and 2: grade 5,	Pass
	Dimensional Stability	ISO 23999	≤0.25%	Pass
ASTM F1700	Residual Indentation	ASTM F1914	Ave≤8% (140lbs/63.5kg);max ≤10%	Pass
	Flexibility	ASTM F137	No cracks or breaks	Pass
	Resistance to Chemicals	ASTM F925	Slight change only	Pass
	Resistance to Heat	ASTM F1515	∆E ≤8	Pass
	Resistance to light	ASTM F1514	∆E ≤8	Pass
NALFA LF 01-2011	Resistance to Chemicals	NALFA LF 01-2011	Slight change only	Pass
	Impact Resistance	NALFA LF 01-2011 3.5	≥ 1400mm	Pass
	Impact Resistance	NALFA LF 01-2011 3.6	≥ 500mm	Pass
EN 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
Others	Density	ISO 23996	NA	Around 1900 kg/m3
	Resistance to light	ISO 105-B02:1994,	≥ Grade 6	Pass
	Airborne sound transmission	ISO 10140-2	NA	NA
	Impact sound transmission	ISO 10140-3	NA	NA
	Impact sound transmission - Reduction	n ISO 10140-1	NA	NA
	Slipperiness	ANSI A137-1	≥ 0.42	Pass
	Slipperiness	DIN 51130	NA	R9
	Rolling Load	ASTM F2753	NA	NA

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		- II			How our product contributes
Certifcation	Category	Credit Title	LEED Points Attainable	Credit Description	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	Formaldehyde emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. The product is GreenGuard Gold certified.
		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. 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.	Formaldehyde emission are less than O.05mg/m3, TVOCs are less than 0.5mg/m3. The product is GreenGuard Gold certified.
Interior Design		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.
	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.

acet	Feature	Part	Requirements	Concept score	How our product contribute to obtain WELL level certification
AIK	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	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/EHL)
			CARIB) 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.		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		
		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 Meth v1.1-2010 (California Section 01350), effectiv 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.		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		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 an 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. c. Thermal insulation.	OPTIMIZATION	The product contains urea-formaldehyde less than 100ppm.