





Specification Sheet FirmFit Intown

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TECHNICAL SPECIFICATIONS

Devei	Painted bever		UFF	See IIVI
Lock	Tight lock		Installation	Floating
Layer	Thickness (mm)	Thickness (mil)	Туре	
Top Layer	0.55	22	Wear layer with a slip-resistant, anti-microbial ce	ramic bead enhanced UV finish
Core	4.45	175	Waterproof thermoplastic composite	
Backing Layer	1.0	39	XPO	
Total	6.0	236		

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	Compliant
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

PHYSICAL PROPERTIES

Norm	Item	Test Method	Requirement	Result
ASTM F3261	Surface Integrity	ASTM F1914	No puncture	Compliant
	Dimensional Stability	ASTM F2199/ISO 23999	≤ 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); +/- 0.20mm (with)	Compliant
	Squareness	ISO 24337	0.25mm	Compliant
	Flatness	ISO 24337	Length: \leq 0.50% (concave) \leq 1.0% (convex) Width: \leq 0.10%(concave) \leq 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 Swell	ASTM F3261	max 2 % swell – no attached back max 5 % swell – with attached back	Compliant
ASTM F1700*	Residual Indentation	ASTM F1914	≤ 8% (140 lbs/63.5kg)	Compliant
	Dimensional Stability	ASTM F2199	≤ 0.16%	Compliant
ISO 10582	Residual Indentation	ISO 24343-1	≤ 0.1mm	Compliant
	Resistance to light	ISO 105-B02:2014	≥ Grade 6	Compliant
	Locking strength	ISO 10582 Appendix D	1.5kN/m	Compliant
NALFA LF 01-2011	Resistance to Chemicals	NALFA LF 01-2011	Slight change only	Class 4, meets commercial requirements
	Impact Resistance	NALFA LF 01-2011 3.5	≥ 1400mm	Class 4, meets commercial requirements
	Impact Resistance	NALFA LF 01-2011 3.6	≥ 500mm	Class 4, meets commercial requirements
EN 14041	Thermal Resistance (R)	EN 12667/ASTM C518	NA	Suitable for underfloor heating systems
	Slipperiness	EN 13893	≥ 0.3	Compliant
	Reaction To fire	EN 13051-1	NA	Class BfI -S1
Others	Density	ISO 23996	NA	Around 1700kg/m3
	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 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 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 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 O.5mg/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
	Indoor Environmental Quality	Credit 1: Enhanced Indoor Air Quality Strategies – Option 2 Additional Enhanced IAO 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	Formaldehyde emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. The product is GreenGuard Gold certified.
ID+C		Credit 2: Low-Emitting Materials – Option1 Flooring	1 point		 VOC emission are less than 0.5mg/m3. The products is GreenGuard Gold certified.
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	Formaldehyde emission are less than 0.05mg/m3, TVOCs are less than 0.5mg/m3. 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.

requirements					How our product contribute
	Feature	Part	Requirements	Concept score	to obtain WELL level certification
IR	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 organic compounds less than 500ug/m3 (0.5mg/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		b. Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equa to 0.5 mg/m3 (in compliance with CDPH/EHI Standard Method v1.1-2010).
			Coatings, or South Coast Air Quality Management District (SCAQMD) Rule 1113, effective June 3, 2011 for VOC content.		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:	PRECONDITION	Conforms to the CDPH/EHLB Standard Methi v1.1-2010 (California Section 01350), effectiv January 1, 2012, for the school classroom am private office parameters when modeled as
			a. California Department of Public Health (CDPH) Standard Method v1.1-2010.		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	PRECONDITION	The product contain less than 90 ppm.
		3. Asbestos Abatement	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 ppm) to the extent allowable by local code: a. Window and waterproofing membranes, door and window	OPTIMIZATION	The product don't contain halogenated flam retardants
			frames and siding. b. Flooring, ceiling tiles and wall coverings. c. Piping and electrical cables, conduits and junction boxes. d. Sound and thermal insulation.		
		3. Phthalate (Plasticizers) Limitation	e. Upholstered furniture and furnishings, textiles and fabrics. DEHP, DBP, BBP, DINP, DIDP or DNOP (often found in polyvinyl chloride [PVC]) are limited in the following components to 0.01% (100	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
			ppm): a. Flooring, including resilient and hard surface flooring and carpet. b. Wall coverings, window blinds and shades, shower curtains, furniture and upholstery.		the REACH Regulation (EC) No. 1907/2006 a amendment No. 552/2009, the product contains less than 100ppm.
		5. Urea-Formaldehyde Restriction	c. Plumbing pipes and moisture barriers.	OPTIMIZATION	The product contains urea-formaldehyde le than 100ppm.
			to 100 ppm: a. Furniture or any composite wood products. b. Laminating adhesives and resins. c. Thermal insulation.		





c. Thermal insulation.