



Recyclable PVC-free Flooring

PVC-FREE, RECYCLABLE INDOOR FLOORING

TECHNICAL DATA SHEET SUMMARY

VERSION: C1.0 - 2024-08-17

	TIER Element Premier	TIER Element Prime
Warranty	 LIMITED LIFETIME RESIDENTIAL 15 YEARS - HEAVY COMMERCIAL	 LIMITED LIFETIME RESIDENTIAL 10 YEARS - LIGHT COMMERCIAL
Installation	5G Valinge click system	2G Valinge click system
Size and packaging	9" x 72" x 7 mm boards: 27 sq.ft/carton, 6 boards/carton, 44 cartons/pallet, 17 pallets/20ft container, 2,527 lbs/pallet, 42,965 lbs/20ft container (G.W.).	7.2" x 60" x 5.5 mm boards: 29.86 sq.ft/carton, 10 boards/carton, 40 cartons/pallet, 21 pallets/20ft container, 2,086 lbs/pallet, 43,785 lbs/20ft container (G.W.).
Construction	5.5 mm high density PP resin-based core with 1.5 mm IXPE underlay	4.5 mm high density PP resin-based core with 1.0 mm IXPE underlay
Wear finish	AC6	AC4
Gloss level	4% to 6%	4% to 6%

Test results	TIER Element Premier	TIER Element Prime
Thickness Swell [NALFA LF 01-2019, Section 3.2]	Class 4 - Heavy commercial	Class 4 - Heavy commercial
Light Resistance [ASTM F1515-21]	Class 4 - Heavy commercial	Class 4 - Heavy commercial
Cleanability/Stain Resistance [NALFA LF 01-2019, Section 3.4]	Class 4 - Heavy commercial	Class 4 - Heavy commercial
Large Ball Impact Resistance [NALFA LF 01-2019, Section 3.5]	Class 4 - Heavy commercial	Class 4 - Heavy commercial
Small Ball Impact Resistance [NALFA LF 01-2019, Section 3.6]	Class 4 - Heavy commercial	Class 4 - Heavy commercial
Wear Resistance [NALFA LF 01-2019, Section 3.7]	Class 4 - Heavy commercial	Class 3 - Commercial
Dimensional Tolerances [ASTM F2199-20]	Class 4 - Heavy commercial	Class 4 - Heavy commercial
Castor Chair Resistance [NALFA LF 01-2019, Section 3.9]	Class 4 - Heavy commercial	Class 4 - Heavy commercial
Formaldehyde [ASTM D6007-22]	Class 4 - Heavy commercial	Class 4 - Heavy commercial
Critical radiant flux [ASTM E648]	Class 1	Class 1
Impact sound conduction E492-22 [ASTM E492-22]	IIC 56	IIC 56
IIC with Drop ceiling* [ASTM 492-22 modified]	IIC 72*	IIC 72*
Sound Transmission Reduction E90-23 [ASTM E90-23]	STC 53	STC 53
STC with Drop ceiling* [ASTM E90 - 23 modified]	STC 69*	STC 69*
Static coefficient of friction (Dry) [ASTM C1028-07e1]	1.02	0.93
Static coefficient of friction (Wet) [ASTM C1028-07e1]	0.66	0.67

*Calculated based on the IIC (Per E492) and STC (Per E90) and laboratory test

Certifications: GREENGUARD GOLD Certified, ISO

Property	9.0 mm Product Result*	5.5 mm Product Result
Total Volatile Organic Compounds (TVOC)	12.0 Qg/m ² •hr (0.003 mg/m ³) (2.99x10 ⁻⁹ oz/ft ³)	5.5 Qg/m ² •hr (0.01 mg/m ³) (2.99x10 ⁻⁹ oz/ft ³)
Formaldehyde	BQL	BQL
Total Aldehydes	BQL	BQL



*The tests were performed on a thicker profile than typical to provide the most conservative result.
 - BQL denotes below quantifiable level of 0.04 Qg (1.4 x 10⁻⁹) based on a standard 18 L (4.8 gal US) air collection volume for TVOC and individual VOCs and 0.1 Qg (3.52 x 10⁻⁹) based on a standard 45 L (11.9 gal US) air collection volume for formaldehyde and total aldehydes.

Hazardous Substance Testing Summary - Soluble 8 Elements (ASTM F963-23)

Element	Result	Detection Limit (ppm)	Limit in ASTM F963 (ppm)	Information
Soluble Barium (Ba)	Not Detected	5	1000	TIER Element Premier was tested.
Soluble Lead (Pb)	Not Detected	5	90	
Soluble Cadmium (Cd)	Not Detected	5	75	
Soluble Antimony (Sb)	Not Detected	5	60	
Soluble Selenium (Se)	Not Detected	5	500	
Soluble Mercury (Hg)	Not Detected	5	60	
Soluble Arsenic (As)	Not Detected	2.5	25	
Soluble Chromium (Cr)	Not Detected	5	60	

Cleanability and stain resistance per NALFA Section 3.4

Property	Premier 7.0 mm Result	Prime 5.5 mm Result	NAFLA Classification
Reagent: Coffee	No effect	No effect	Class 4 Heavy commercial
Reagent: Red Wine	No effect	No effect	
Reagent: Tea	No effect	No effect	
Reagent: Mustard	No effect	No effect	
Reagent: Vegetable Oil	No effect	No effect	
Reagent: 10% Povidone Iodine	Slight effect, removable	Slight effect, removable	
Reagent: Black Permanent Marker	Slight effect, removable	Slight effect, removable	
Reagent: Black Paste Shoe Polish	Slight effect, removable	Slight effect, removable	
Cleaning Resistance	No residual marks	No residual marks	