



Performance Criteria	Test Method	Requirement	Harbinger Result
Classification	ASTM F1700-04	ASTM F1700 Standard Specification for Solid Vinyl Floor Tile	Class III Type B Embossed Surfaces
FloorScore	Scientific Certification Systems (SCS)	FloorScore Indoor Air Quality (IAQ)	Meets IAQ of LEED, CHPS and Green Guide for Health Care
FloorScore - Phenol	(SCS)	Allowable concentration 100 (µg/m ³)	Phenol free wear layer
VOC	State of California DOHS R-174	Volatile Organic Compound and Aldehyde Emissions test. Allowable: 500 mg/m ³ .h	44 µg/m ³ .h Less than 10% of allowable level
Critical Radiant Flux	ASTM E648-10	Class 1, 0.45w/cm ² or higher	Pass; Class 1
Smoke Density (flaming)	ASTM E662-09	Specific optical density max. 450	Pass; < 357
Smoke Density (non-flaming)	ASTM E662 -09	Specific optical density max. 450	Pass; < 339
Slip Resistance	ASTM D2047	Static coefficient of friction: OSHA min. 0.5; ADA (guideline) min. 0.6	Pass 0.90 (wet); compliance varies with surface texture
Heavy Metal Content	ASTM F963	Best = no detectable heavy metals	No detectable heavy metals <1.5mg/kg
Phthalate	CPSC-C1001-09.3	Meet CPSA Guideline	Exceeds CPSA guideline. Harbinger is phthalate free.
Static load limit	ASTM F970	Specified load 250lbs	Residual compression 0.004 inch
Flexibility	ASTM F137	No cracks/breaks	Pass; 6mm Mandrel
Color Fastness (heat)	ASTM F1514	Max. average delta E of 8	Pass
Color Fastness (light)	ASTM F1515	Max. average delta E of 8	Pass
Quality Control Management	ISO 9001 achieved	Environmental Management	ISO 14001 achieved
Heat Stability	ASTM F1514	Less than 8.0 Delta E	Pass
Residual Indentation	ASTM F1914-98	Specified load 140lbs	0.006 inch (3.5%)
Stain and Chemical Resistance	ASTM F925-2	Best = no change	No change
Dimensional Stability	ASTM F2199	< 0.10%	Pass, < 0.08%
IIC (Impact Insulation Class)	ASTM E492	Recommended IIC of 50 for commercial buildings	IIC 73* tested on 6" concrete (Varies by product)
STC (Sound Transmission Coefficient)	ASTM E90-09 ASTM E413-10	Recommended STC of 50 for commercial buildings	STC 68* tested on 6" concrete (Varies by product)
Radiant Heat Suitability	-	Suitable for under floor heating	Up to 28°C (82°F)

LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN LEED v4		
Building Design and Construction: New Construction LEED v4	Building product disclosure and optimization – Environmental Product Declarations (EPD) (up to 2 points)	Harbinger Environmental Product Declaration (EPD) accredited by SCS Global Services
Building Design and Construction: New Construction LEED v4	Building product disclosure and optimization – material ingredients (up to 2 points)	Harbinger Health Product Declaration (HPD) accredited by SCS Global Services
Building Design and Construction: New Construction LEED v4	Certified Multi-Attribute Products and Material (possible 1 point)	Harbinger NSF/ANSI 332 Platinum Certification The highest level of performance recognized.
Building Design and Construction: New Construction LEED v4	Low emitting materials (up to 3 points)	Harbinger Flooring is FloorScore certified. Uzin KE2000S and KE66 adhesive are VOC compliant
Building Design and Construction: New Construction LEED v4	Verified Construction and Demolition Recycling Rates (possible 1 point)	Harbinger is fully recyclable

www.HarbingerFloors.com
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