

RIGID CORE FLOORING

Empower™

Product Information

Construction - Rigid Core

International Specifications - ASTM F 3261, Class I, Type B, Grade 1, Backing Class B

Overall Thickness - 7.0 mm (0.28 in.)

Wear Layer Thickness - 20 mil (0.5 mm)

Factory Finish - Diamond 10® Technology

Installation - Floating

Maintenance Options - No Polish - No Buff, Spray Buff, Polish

20 mil Wear Layer
with Diamond 10® Technology

Design layer

Resilient layer

Fiberglass reinforced mineral core

Resilient layer

Acoustic pad

Packaging

Size

9.0 in. x 72 in. (228 mm x 1850 mm)

Multi-Width - 4.3 in., 5.9 in., 7.1 in. x 72 in. (109, 149, 181 mm x 1850 mm)

Tiles per Carton/Coverage

4 (18.2 sq. ft.) 1.69 m²

6 - 2 of each width (17.4 sq. ft.) 1.62 m²

Shipping Weight per Cartc..

38.0 lbs. (17.2 kg)

37.4 lbs. (17.0 kg)

Testing

ASTM F3261			
Performance	Test Method	Requirement	Performance vs. Requirement
Thickness	ASTM F 387	As specified ±0.008 in. (0.20 mm)	Meets
Wear Layer Thickness	ASTM F 410	0.020 in. (0.5 mm) minimum for Commercial Use	Meets
Width	ASTM F 2055	± 0.016 in. (0.040 mm)	Meets
Length	ISO 24337	± 0.020 in.	Meets
Squareness	ASTM F 2055	0.010 in. maximum	Meets
Openings, Avg / Max	ISO 24337	Oavg ≤ 0.004 in. (0.1 mm) / OM ≤ 0.008 in. (0.2 mm)	Meets
Ledging, Avg / Max	ISO 24337	Havg ≤ 0.004 in. (0.1 mm) / HM ≤ 0.006 in. (0.15 mm)	Meets
Residual Indentation	ASTM F1914	Avg. ≤ 0.007 in. (0.18 mm)	Meets
Surface Integrity	ASTM F1914	No puncture thru wear layer/décor in to rigid core	Meets
Dimensional Stability	ASTM F2199 ISO 23999	0.2% per lin. ft (305 mm)	Meets
Curl	ASTM F2199 ISO 239999	Max 0.080 in. (2 mm)	Meets
Chemical Resistance	ASTM F 925	No more than slight change in surface dulling, attack or staining	Meets
Resistance to Heat	ASTM F 1514	ΔE < 8 avg., max	Meets
Resistance to Light	ASTM F 1515	ΔE < 8 avg., max	Meets
Static Load Resistance @ 250	ASTM F970	≤ 0.005 in.	Meets
Additional Testing			
Static Coefficient of Friction*	ASTM D2047/UL 410	≥ 0.5	Meets
Static Load Resistance	ASTM F970** ASTM F387	≤ 0.005 in.	2000 psi
Castor Wheel	EN 425	25,000 cycles - No effect	Meets
Fire Test Data – Flame Spread	ASTM E648	0.45 W/cm ² or more Class 1	Meets
Fire Test Data – Smoke Evolution	ASTM E662	450 or less	Meets
Fire Test Data – Canada	CAN/ULC S-102.2	Use dependent	Flame Spread - 5 Smoke Developed - 45
Acoustics	ASTM E492	IIC ≥ 50 (International Building Code)	Exceeds - 6 in. concrete, no ceiling - IIC 56 Exceeds - 8 in. concrete, no ceiling - IIC 57
	ASTM E90	STC ≥ 50 (International Building Code)	Exceeds - 6 in. concrete, no ceiling - STC 51 Exceeds - 8 in. concrete, no ceiling - STC 53
	ASTM E2179	Sound Transmission Reduction	ΔIIC - 25

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Sustainability

WELL v1 Feature

	WELL v1 Feature	Empower	Contribution
Air	Feature 04 - VOC Reduction	✓	Tested and third party certified by FloorScore as complying with CDPH v1.2
	Feature 11 - Fundamental Material Safety	✓	Product is free of asbestos and added lead (Part 1)
	Feature 25 - Toxic Material Reduction	✓	Free of flame retardants (Part 2) and phthalates (Part 3)
Mind	Feature 97 - Material Transparency	✓	Readily available Health Product Declaration (HPD) to 1000 ppm
	Feature 88 (Part 2) Biophilia I - Qualitative	✓	Products available that incorporate nature patterns
	Feature 99 - Beauty and Design II	✓	Provided patterns and colors to aid in wayfinding and spatial familiarity (Part 3)

WELL v2 Feature

	WELL v2 Feature	Empower	Contribution
Air	Feature X11 Long-Term Emission Control	✓	Flooring is tested and third party certified by FloorScore as complying with CDPH v1.3
	Feature X01 Fundamental Material Precautions	✓	Product is free of asbestos
	Materials	Feature X10 Volatile Organic Compound	✓
Feature X14 Material Transparency		✓	Readily available Health Product Declaration (HPD) to 1000 ppm
Mind	Feature M02 Access to Nature	✓	Products available that incorporate nature patterns
Community	Feature C13 (Part 2) Accessibility and Universal Design	✓	Provided patterns and colors to aid in wayfinding and spatial familiarity

LEED™ v4.1

	LEED™ v4.1	Empower
	BPDO - EPD	Industry Average
	BPDO - Material Ingredient	HPD
	Location of Manufacturer	China
	Low Emitting Flooring	Tested and third party certified by FloorScore as complying with CDPH v1.2

Limited Warranty

15-year Commercial Warranty when installed in strict accordance with the detailed instructions.

Visit ArmstrongFlooring.com

for complete Product, Technical, Adhesives, Installation & Maintenance recommendations.

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* Using the James Machine as described in D2047 and as directed in UL 410 for floor covering materials (FCM) using a leather foot under dry conditions. The application of site-applied floor sealers, polishes and other types of finishes routinely used to maintain resilient flooring materials will change the walking surface and consequently the SCOF value. ** Testing at loads above 250 psi is outside the scope of the test method. Since testing is conducted on uninstalled flooring, results do not consider the performance of the adhesive, underlayment, or subfloor. These test results are not an indicator of the installed flooring system performance.

