ArmstrongFlooring®

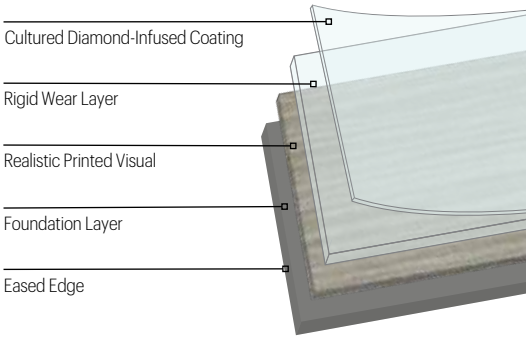
Diamond 10® Technology

LUXURY FLOORING
FLOOR & WALL APPLICATIONS

Biome™ | Coalesce™ | Duo™ | Exchange™ Terra™ | Theorem™ | Mixtera™ | Tandem

Product Information

Construction - Solid Vinyl Tile (Luxury Vinyl Tile / LVT)
International Specifications - ASTM F 1700, Class III, Type B embossed surface
Overall Thickness - 0.100 in. (2.5 mm)
Wear Layer Thickness - 0.020 in. (0.5 mm)
Factory Finish - Diamond 10® Technology
Installation - Adhesives: Work Strong™ (S-995), Roll Strong™ (S-319), Moisture Ready™ (S-1000), StrongLink™ (ARM-STRONGLK)
Wall Strong™ (S-730) REQUIRED for wall application+
Subfloor Prep - Level Strong™ (S-463), Patch Strong™ (S-466)
Underlayment - Quiet Comfort Flex Pro™ (QC-FLEXPRO-ROL)
Maintenance Options - Clean Strong™ (S-485), Polish Strong™ (S-480) - polish optional



+LVT Wall Installation: Wall Strong™ (S-730) is **REQUIRED** to meet Class A performance. This also provides an enhanced warranty.

Packaging

Product	Size	Pieces per Carton/Coverage	Shipping Weight per Carton
Coalesce, Duo, Exchange, Theorem, Mixtera, Tandem	6 in. x 36 in. (152 mm x 914 mm)	24 / (36 sq. ft.) 5.02 m^2	39 lbs. (17.73 kg)
Coalesce, Duo, Terram Mixtera, Tandem	18 in. x 36 in. (457 mm x 914 mm)	12 / (54 sq. ft.) 5.02 m^2	55.80 lbs. (25.31 kg)
Coalesce, Terra, Mixtera, Tandem	18 in. x 18 in. (457 mm x 457 mm)	16 / (36 sq. ft.) 3.35 m^2	39 lbs. (17.73 kg)
Biome	6 in. x 48 in. (152 mm x 1219 mm)	18 / (36 sq. ft.) 3.34 m^2	39 lbs. (17.73 kg)
Biome	9 in. x 48 in. (228 mm x 1219 mm)	12 / (36 sq. ft.) 3.34 m^2	39 lbs. (17.73 kg)

Testing

ASTM F1700			
Performance	**Test Method**	**Requirement**	**Performance vs. Requirement**
Thickness	ASTM F386	Nominal ±0.005 in.	Meets
Wear Layer Thickness	ASTM F410	0.020 in. (0.5 mm) minimum for Commercial Use	Meets
Size	ASTM F2421	± 0.016 in. per linear foot	Meets
Squareness	ASTM F2421	0.010 in. maximum	Meets
Residual Indentation	ASTM F1914	Average less than 8%	Meets
Chemical Resistance	ASTM F925	No more than slight change in surface dulling, attack or staining	Meets
Resistance to Heat	ASTM F1514	$\Delta E < 8$ avg., max	Meets
Resistance to Light	ASTM F1515	$\Delta E < 8$ avg., max	Meets
Static Coefficient of Friction**	ASTM D2047/UL 410	≥ 0.5	Meets
Additional Testing			
Static Load Resistance	ASTM F970*	≤ 0.005 in.	3000 psi
Micro-Scratch Resistance	EN 16094	Use Dependent	MSR-A1/MSR-B1
Dimensional Stability	Internal	≤ 0.018 in. per linear ft. MD ≤ 0.012 in. per lin. ft. AMD	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 - Steiner Tunnel+	ASTM E84	Use Dependent	Class A
Fire Test Data – Canada	CAN/ULC S-102.2	Use dependent	Flame Spread - 5 | Smoke Developed - 75
ADA Standards for Accessible Design	Chapter 3, Section 302.1	Floor surfaces shall be stable, firm and slip resistant	Meets
Acoustics	ASTM E492 ASTM E90 ASTM E2179	IIC ≥ 50 (International Building Code) STC ≥ 50 (International Building Code) Sound Transmission Reduction	Exceeds - IIC 62 Exceeds- STC 61 HIIC - 65 On 6" concrete with ceiling and Quiet Comfort Flex Pro™ (QC-FLEXPRO-ROL)

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Sustainability

WELL v2 Feature		2.5 mm LVT	Contribution
Materials	Feature X01.1 Material Restrictions	✓	Product is free of asbestos
	Feature X05.1 Enhanced Material Restrictions	✓	Free of flame retardants (Part 2) and phthalates (Part 3)
	Feature X06.1 VOC Restrictions	✓	Adhesives associated with product are tested and third party certified by FloorScore as complying with CDPH v1.2
	Feature X06.2 VOC Restrictions	✓	Flooring is tested and third party certified by FloorScore as complying with CDPH v1.2
	Feature X07.1 Material Transparency	✓	Readily available Health Product Declaration (HPD) to 1000 ppm
Mind	Feature M02.1 Nature and Place	✓	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	2.5 mm LVT
BPDO - EPD	Third party certified Product Specific
BPDO - Material Ingredient	HPD
BPDO - Sourcing	5% pre-consumer recycled content
Location of Manufacturer	USA
Low Emitting Flooring	Tested and third party certified by FloorScore as complying with CDPH v1.2
Low Emitting Adhesives	Tested and compliant to CDPH v1.2; Methylene Chloride and Perchloroethylene not intentionally added; FloorScore Certified
SCAQMD #1168 Compliant. Adhesives meet <50 g/L requirement	Roll Strong™ (S-319) 0 g/L Work Strong™ (S-995)- 0 g/L Moisture Ready™ (S-1000) 0.1 g/L StrongLink™ (ARM-STRONGLK) - 11 g/L Wall Strong™ (S-730) - 5 g/L

Carbon Footprint	2.5 mm LVT
Global Warming Potential, excluding Biogenic Carbon Raw Materials (A1) through Production (A3)	0.56 Kg CO^2 eq. / square foot (6.01 Kg CO^2 eq. / square meter)



Limited Warranty

Full 30-year warranty coverage requires the use of Armstrong Flooring® recommended adhesive

If recommended Armstrong Flooring adhesive is not used, the commercial warranty is reduced to one year from purchase and covers flooring material only.

Visit ArmstrongFlooring.com for full warranty details.

Visit ArmstrongFlooring.com
for complete Product, Technical, Adhesives, Installation & Maintenance recommendations.

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*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.
**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 routinel used to maintain resilient flooring materials will change the walking surface and consequently the SCOF value.

Made in USA
with U.S. and global content.