

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)

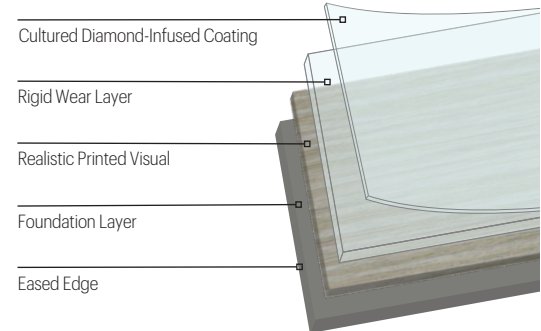
Wear Layer Thickness - 0.020 in. (0.5 mm)

Factory Finish - Diamond 10® Technology

Installation - Adhesives: S-995, S-319 Roll Strong™, S-1000 ,
S-730 **REQUIRED** for wall application+

Maintenance Options - No Polish - No Buff, Polish Optional

+LVT Wall Installation: S-730 Wall and Wall Base Adhesive 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 m²	39 lbs. (17.73 kg)
Coalesce, Duo, Terra, Mixtera, Tandem	18 in. x 36 in. (457 mm x 914 mm)	12 / (54 sq. ft.) 5.02 m²	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 m²	39 lbs. (17.73 kg)
Biome	6 in. x 48 in. (152 mm x 1219 mm)	18 / (36 sq. ft.) 3.34 m²	39 lbs. (17.73 kg)
Biome	9 in. x 48 in. (228 mm x 1219 mm)	12 / (36 sq. ft.) 3.34 m²	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	ΔE < 8 avg., max	Meets
Resistance to Light	ASTM F1515	ΔE < 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
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/cm² 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	IIC ≥ 50 (International Building Code)	Exceeds - IIC 53
	ASTM E90	STC ≥ 50 (International Building Code)	Exceeds- STC 51
	ASTM E2179	Sound Transmission Reduction	ΔIIC - 22 6 in. concrete, no ceiling with S-1840 Quiet Comfort Luxury Flooring Underlayment

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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.		S-319 Roll Strong – 0 g/L	
Adhesives meet <50 g/L requirement		S-995 - 0 g/L	
		S-1000 – 0.1 g/L	
		S-730 - 5 g/L	
Carbon Footprint		2.5 mm LVT	
Global Warming Potential, excluding Biogenic Carbon		0.56 Kg CO ₂ eq. / square foot	
Raw Materials (A1) through Production (A3)		(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](https://www.ArmstrongFlooring.com) for full warranty details.

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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 routinely 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.