

PRODUCT SPEC PAGE

Parallel® USA 20 | Parallel® USA 12

Luxury Flooring

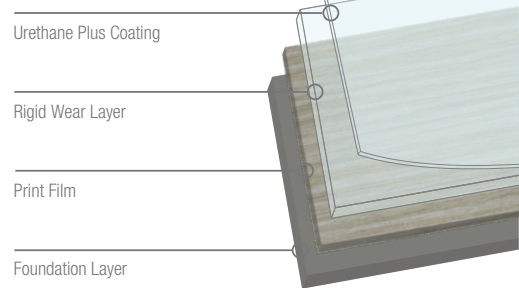
Performance

Construction	Product Line	International Product Specifications	Overall Thickness Wear Layer Thickness	Finish	Installation	Maintenance Options
Solid Vinyl Tile (a.k.a. Luxury Flooring - LVT)	Parallel® USA 20 Parallel® USA 12	ASTM F 1700, Class III, Type B embossed surface	20 mil: 0.100 in. (2.5 mm) 0.020 in. (0.5 mm) 12 mil: 0.080 in. (2.0 mm) 0.012 in. (0.3 mm)	Urethane Plus	Full Spread Adhesives: S-288 Premium, S-315 Roll Strong™, S-980, S-1000 High-Moisture, S-240 Epoxy	No Polish – No Buff Polish – optional

Packaging

Sizes	Tiles per Carton/ Coverage	Shipping Weight per Carton
Parallel® USA 20 6 in. x 48 in. (152.4 mm x 1219.2 mm) 18 in. x 18 in. (457.2 mm x 457.2 mm)	18 – 36 ft² (3.34 m²) 16 – 36 ft² (3.34 m²)	34 lbs./carton (15.42 kg) 34 lbs./carton (15.42 kg)
Parallel® USA 12 6 in. x 48 in. (152.4 mm x 1219.2 mm) 18 in. x 18 in. (457.2 mm x 457.2 mm)	18 – 36 ft² (3.34 m²) 16 – 36 ft² (3.34 m²)	29 lbs./carton (13.15 kg) 29 lbs./carton (13.15 kg)

Product Structure



Testing

	Performance	Test Method	Requirement	Performance vs. Requirement
ASTM F 1700	Thickness	ASTM F 386	Nominal ± 0.005 in.	Meets
	Wear Layer Thickness	ASTM F 410	0.020 in. (0.5 mm) minimum for Commercial Use	Meets
	Size	ASTM F 2421	± 0.016 in. per linear foot	Meets
	Squareness	ASTM F 2421	0.010 in. maximum	Meets
	Residual Indentation	ASTM F 1914	Average less than 8%.	Meets
	Chemical Resistance	ASTM F 925	No more than slight change in surface dulling, attack or staining	Meets
	Heat Resistance	ASTM F 1514	ΔE < 8	Meets
Additional Testing	Light Resistance	ASTM F 1515	ΔE < 8	Meets
	Static Load Limit	ASTM F 970	≤ 0.005 in.	2000 psi*
	Dimensional Stability	Internal	≤ 0.018 in. per linear foot MD ≤ 0.012 in. per linear foot AMD	Meets
	Fire Test Data – Flame Spread	ASTM E 648	0.45 w/cm² or more Class I	Meets
	Fire Test Data – Smoke Evolution	ASTM E 662	450 or less	Meets
	Fire Test Data – Canada	CAN/ULC S102.2	Use dependent	Parallel 20: Flame Spread - 5; Smoke Developed - 75 Parallel 12: Flame Spread - 0; Smoke Developed - 50
	ADA Standards for Accessible Design	Chapter 3 Section 302.1	Floor surfaces shall be stable, firm and slip resistant	Meets
Static Coefficient of Friction**	ASTM D2047 UL 410	≥ 0.5	Meets	

* 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.

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Sustainability

Certification Attribute	Standard	3rd party Certification/Certifier
Low Emitting Material	CDPH v1.2 (2017) a.k.a CHPS 01350	FloorScore/SCS
Environmental Product Declaration (Product Specific EPD)	ISO 14025 and ISO 14040	Yes/ULE

Performance	Standard	Requirements	Performance vs. Requirements
TVOC Range	CDPH v1.2 (2017) a.k.a CHPS 01350	<0.5 mg/m ³	Meets
Low Emitting Adhesives S-288 Premium S-240 Epoxy S-315 Roll Strong™ S-543 High Moisture S-980 High Moisture S-1000 High Moisture	FloorScore®/SCAQMD	Less than 50 g/L	S-288 Exceeds - 14 g/L S-240 Exceeds - 10 g/L S-315 Roll Strong™ Exceeds - 0 g/L S-543 Exceeds - 0 g/L S-980 Exceeds - 0.1 g/L S-1000 Exceeds - 14 g/L
Material Ingredients/Transparency	LEED v4 (Option 1) WELL™ Feature 97	Content disclosure to 1000 ppm	Meets (See Armstrong Flooring Product Declaration)
Fundamental Material Safety Toxic Materials Reduction	WELL™ Feature 11 and 25	No asbestos, free of lead and phthalates (DEHP, DBP, BBP, DIDP, DNOP)	Meets
Sourcing of Raw Materials	LEED v4	Extended Producer Responsibility	Meets - See Armstrong On & On® Floor Recycling Program
Recycled Content	ISO 14021	Contains recycled content	29% pre-consumer recycled content
Local Materials	LEED v4	Manufactured within 100 miles of job site	Made in Lancaster, PA, with global and domestic content
Acoustics	ASTM E492 ASTM E90 ASTM E2179	Impact Insulation Class Sound Transmission Class Sound Transmission Reduction	IIC – Parallel USA 20 – 53* Parallel USA 12 – 54* (6" concrete - no ceiling) STC – Parallel USA 20 – 51* Parallel USA 12 – 50* (6" concrete - no ceiling) Delta IIC (ΔIIC) – Parallel USA 20 – 22* Parallel USA 12 – 24* *Tested with S-1840 Quite Comfort Luxury Flooring Underlayment.

Limited Warranty

Parallel® USA 20:

15-year Commercial Warranty / 30-year Residential Warranty when installed in strict accordance with installation instructions on ArmstrongFlooring.com.

Parallel® USA 12:

7-year Commercial Warranty / 15-year Residential Warranty when installed in strict accordance with installation instructions on ArmstrongFlooring.com.

ArmstrongFlooring.com/commercial | 1 888 276 7876



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