

PRODUCT SPEC PAGE

Parallel® 20 | Parallel® 12

Luxury Flooring

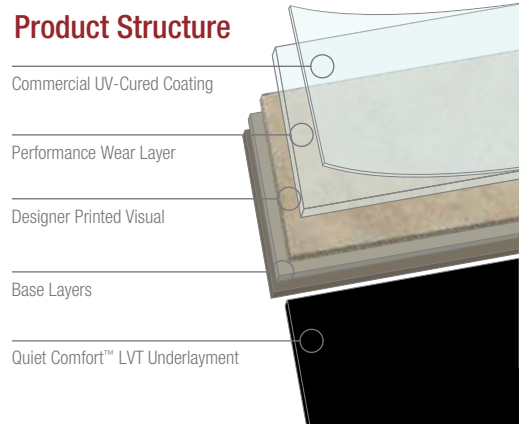
Performance

Construction	Product Line	International Product Specifications	Overall Thickness	Wear Layer Thickness	Factory Finish	Installation	Maintenance Options
Solid Vinyl Tile (a.k.a. Luxury Flooring - LVT)	Parallel® 20 Parallel® 12	ASTM F 1700, Class III, Type B embossed surface	0.100 in. (2.5 mm) 0.080 in. (2.0 mm)	0.020 in. (0.5 mm) 0.012 in. (0.3 mm)	UV-cured Polyurethane	Full Spread Adhesives: S-288 Premium, S-543 High-Moisture, S-240 Epoxy, S-310 Roll Strong™	Polish No Polish – No Buff No Polish– Spray Buff

Packaging

Sizes	Tiles per Carton/ Coverage	Shipping Weight per Carton
Parallel® 20 6 in. x 48 in. (152.4 mm x 1219.2 mm) 12 in. x 24 in. (304.8 mm x 610 mm)	18 – 36 ft ² (3.34 m ²) 18 – 36 ft ² (3.34 m ²)	32.5 lbs./carton (14.76 kg) 32.4 lbs./carton (14.69 kg)
Parallel® 12 6 in. x 48 in. (152.4 mm x 1219.2 mm) 12 in. x 24 in. (304.8 mm x 610 mm)	18 – 36 ft ² (3.34 m ²) 18 – 36 ft ² (3.34 m ²)	25.8 lbs./carton (11.70 kg) 26.2 lbs./carton (11.86 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
	Flexibility	ASTM F 137	≤ 1.0 in. diameter, no cracks or breaks	Meets
	Dimensional Stability	ASTM F 2199	≤ 0.020 in. per linear foot	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
	Light Resistance	ASTM F 1515	ΔE < 8	Meets
Additional Testing	Static Load Limit	ASTM F 970	≤ 0.005 in.	250 psi
	Fire Test Data – Flame Spread	ASTM E 648	0.45 w/cm ² 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	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
	Static Coefficient of Friction*	ASTM D2047 UL 410	≥0.5	Meets

* 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	Yes/ASTM International
Low Emitting Material - Adhesive (S-288, S-310, S-543, S-240)	CDPH v1.2 (2017) a.k.a. CHPS 01350	FloorScore/SCS
Plant Certifications	ISO 14001 and ISO 9001	Environmental Management System

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 S-240 S-310 Roll Strong™ S-543	FloorScore®/SCAQMD	Less than 50 g/L	S-288 Exceeds - 14 g/L S-240 Exceeds - 10 g/L S-310 Roll Strong™ Exceeds - 0 g/L S-543 Exceeds - 0 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

Limited Warranty

Parallel 20:

15 year Commercial Warranty when installed in strict accordance with the Armstrong Flooring Guaranteed Installations Systems manual (F-5061)

Parallel 12:

7 year Commercial Warranty when installed in strict accordance with the Armstrong Flooring Guaranteed Installations Systems manual (F-5061)

Links

Product Transparency	www.ArmstrongFlooring.com/transparency
Email Techline	www.ArmstrongFlooring.com/flooring-techline
Visit Floor Expert	www.floorexpert.com
Installation Instructions	www.ArmstrongFlooring.com/flooring-downloads
Maintenance Instructions	www.ArmstrongFlooring.com/flooring-downloads
View Full Line	www.ArmstrongFlooring.com/lvt
Product Recyclability	www.ArmstrongFlooring.com/reclaim

ArmstrongFlooring.com/commercial | 1 888 276 7876



*Refer to the 2016 Product Guide (FP7440F4249) for a quick reference on the product performance, design and sustainability icons.

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