

Villa Barcelona Rigid Core Luxury Vinyl Plank Flooring (Specification Data)

FLOORING PROPERTIES & PACKAGING

Construction Extruded Core with Pre-Attached Underlayment:	Rigid Core 4mm Thick + 1mm IXPE Pad
Collection:	Villa Barcelona Designer Series
Use:	Commercial & Residential
Size:	7.17" WIDE X 60" LENGTH (182mm X 1524mm)
Installation Method:	I4FE Drop & Lock
Certification:	FloorScore certified by SCS Global Services
Wear Layer:	20mil (0.5mm)
Edge Detail:	Micro-Bevel
Emboss:	Natural Hardwood Embossing
Gauge:	4mm Rigid Core + 1mm IXPE attached Pad = 5mm Total Thickness
Planks/Case:	8
Coverage/Each Plank:	2.98 Sq. Ft (0.277 Sq. Meters)
Coverage/Case:	23.88 Sq. Ft.(2.218 Sq. Meters)
Coverage/Pallet:	45 Cases/Pallet (1,074.6 Sq. Ft. / 99.833 Sq. Meters)
Limited Warranty:	Lifetime Residential / 10-Year Light Commercial

STANDARDS – SAFETY & PERFORMANCE

Standard	Description	Requirements	Results
ASTM E648	Critical Radiant Flux (Radiant Panel)	Class I: ≥ 0.45 W/cm ²	Surpasses Requirements ¹
ASTM E662	Smoke Density	Flaming & Non-Flaming ≤ 450	Surpasses Requirements ²

CDPH/EHLB, Standard Method v1.2	VOCs/TVOCs, Formaldehyde	Refer to Standard	Surpasses Requirements
ASTM F963	Heavy Metals	Refer to Standard	Surpasses Requirements
ASTM D7823 /CP-SC-CH-C1001-09.3	Phthalates	Refer to CPSIA3	Surpasses Requirements
ASTM D2047	Coefficient of Friction / Slip Resistance	N/A (No Official Requirements)	≥0.6 (Dry)

STANDARDS – SOUND

Standard	Description	Requirements		Results
ASTM E90 & ASTM E413	Airborne Sound Transmission Loss of Building Partitions and Elements (STC / Sound Transmission Class)	6" Concrete Slab	STC ≥ 50	STC 56 (Surpasses Requirements)
		6" Concrete Slab + Drop-Ceiling	STC ≥ 50	STC 59 (Surpasses Requirements)
ASTM E492 & ASTM E989	Impact Sound Transmission Through Floor-Ceiling Assemblies (IIC / Impact Insulation Class)	6" Concrete Slab	IIC ≥ 50	IIC 57 (Surpasses Requirements)

STANDARDS – MANUFACTURING & USAGE (ASTM F3261)

Standard	Description	Requirements	Results
ISO 24337	Size	Tolerance - Width of 7.08" (180mm) ±0.016" (0.40mm) Tolerance - Length of 47.64" (1210mm) ±0.060" (1.5mm)	Surpasses Requirements
ASTM F2421	Squareness	≤0.010" (0.25mm)	Surpasses Requirements
ASTM F387	Thickness	With Foam Back Layer Tolerance: ±0.008" (0.2mm) vs. Specified Minimum: 0.080" (2.0mm)	Surpasses Requirements
ISO 24337	Flatness	Max. Values - Width of 7.08" (180mm) Fw ±0.008" (0.2mm) Fl concave ≤ 0.15%; Fl convex ≤ 0.20%	Surpasses Requirements

Curling	Openings	Average (OAvg) \leq 0.004" (0.1mm) Maximum (OM) \leq 0.008" (0.2mm)	Surpasses Requirements
ISO 24337	Ledging	Average (HAvg) \leq 0.004" (0.1mm) Maximum (HM) \leq 0.006" (0.15mm)	Surpasses Requirements
ASTM F1914	Residual Indentation	Average: \leq 0.007" (0.18mm)	Surpasses Requirements
ASTM F1914	Surface Integrity	No puncture through wear layer / décor into rigid core	Surpasses Requirements
ISO 23999	Dimensional Stability	\leq 0.25% / lineal ft. (305 mm)	Surpasses Requirements
ISO 23999	Curling	\leq 0.080" (2.0mm)	Surpasses Requirements
ASTM F925	Chemical Resistance	No more than "Slight Change"	Surpasses Requirements
ASTM F1514	Resistance to Heat	Average $\Delta E < 8.0$	Surpasses Requirements
ASTM F1515	Resistance to Light	Average $\Delta E < 8.0$	Surpasses Requirements
ASTM F970	Static Load	No Official Requirements (Wear Layer < 20mil)	\leq 0.005" (0.13mm), 250psi

Footnotes

- ASTM E648 - Critical Radiant Flux (Radiant Panel): Passes Requirements for Class I per International Building Code (IBC) 2018 & NFPA 101 Life Safety Code.
- ASTM E662 - Smoke Density: 450 is the limit established by many state, county, and/or local building and/or fire codes, but is not set as a limit for (resilient) flooring products nationwide. Thus, Smoke Density requirements for flooring products may vary from jurisdiction to jurisdiction. Consult your building inspector / fire marshal to learn more.
- CPSIA = Consumer Product Safety Improvement Act.

Recommended installation method

