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Avolis®
FLOORING YOU'LL LOVE

Technical Data Sheet

GENERAL CHARACTERISTIC

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Dimension	ASTM F2055		**7.17" × 48"** 1220 × 182 mm Length 0/+0.3, Width 0/+0.1
Overall Thickness	ASTM F387		7 mm (5.5 mm SPC + 1.5 mm IXPE)
Click systems		UNICLIC Patented Technology	Uniclic Patented
Beveled Edge		MICRO BEVEL EDGE	Micro Bevel
Finish			2-pass UV cured urethane
Texture			EIR & BP
Thickness of Wear Layer	ASTM F410		20 Mil 0.5 mm
Total Weight			2.6 kg/plank (±3%), 46.3 lbs (21 kg)/box, 2315 lbs/pallet
Package			8 pcs/box (1.77632 m² / 19.12 sqft) 50 boxes/pallet 20 pallets/container
Recommended Use	ASTM F3261		Class 32
ASTM Specification Classification	ASTM F3261		Class 1, Type B, Grade 1, Class B

TOLERANCE

CHARACTERISTICS	NORM	REQUIREMENT
Thickness Tolerance	ASTM F387	+0.13 / −0.10 mm
Dimension Tolerance	ASTM F2055	Length 0/+0.3 mm, Width 0/+0.1 mm
Dimensional Stability	ASTM F2199	≤0.20%
Curling	ISO 23999	≤1.5 mm
Squareness	ASTM F2055	≤0.25 mm (0.010 in)
Width Flatness	ISO 24337	fw ≤0.15%
Length Flatness	ISO 24337	≤0.20%
Cupping flatness	ISO 24337	≤0.10 mm
Openings / Assembling	ISO 24337	≤0.20 mm
Ledging	ISO 24337	≤0.1 mm

SPECIFICATION

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Abrasion Resistance	ASTM D4060		≥4000 cycles
Resistance to Staining	ASTM D1308		No visible staining, discoloration, or surface degradation
Furniture leg	ASTM F2753		No visible damage

Castor Chair	ASTM F2753		No visible damage after 25,000 cycles
Heat Stability	ASTM F1514		<8.0
Light Stability	ASTM F1515		ΔE ≤8.0
Gloss Level	ASTM D523		Ultra Matte 3-5GU
Micro Scratch Resistance	EN 16094:2012, Procedure A&B		MSR-A1, MSR-B
Heavy Metal content	ASTM F963-17		(Pb) ≤ 90 ppm; (Cd) ≤ 75 ppm; (Hg) ≤ 60 ppm; (As) ≤ 25 ppm; (Sb) ≤ 60 ppm; (Ba) ≤ 1000 ppm; (Cr VI) ≤ 60 ppm; (Se) ≤ 500 ppm
Surface Treatment (UV)			2-pass UV cured urethane
Surface Integrity	ASTM F1914		No visible changes or only minor indentation
Residual Indentation	ASTM F1914		≤0.007 in (0.18 mm)
Chemical Resistance	ASTM F925		No effect
Static Load (Residual Indentation)	ASTM F970		≤0.005 in / 0.13 mm
Impact resistance	NALFA LF-01 2019		≥ 1400 mm (55.1 in.)
Locking strength	ASTM F2823		Longitudinal joint: 3.4 kN/m, Trans joint 3.6 kN/m
Static Electrical Loading	ASTM F150		≤ 2.0 kV (2000V)

ESSENTIAL CHARACTERISTIC

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Reaction to Fire	ASTM E648		Class I (≥ 0.45 W/cm²)
Formaldehyde	ASTM E1333		CARB P2
Pentachlorophenol PCP	CP 491510-01		PCP levels ≤ 5 ppm
Thermal Resistance	ASTM C518		0.02 to 0.05 m²·K/W (or 0.1 to 0.3 ft²·h·°F/BTU)
Slip Resistance	ASTM D2394		dry COF ≥0.50, wet COF ≥0.42
Impact Sound Reduction	ASTM E492/E989		IIC 55-60
STC Sound Testing	ASTM 492-09		STC 52-55
IIC Sound Testing	ASTM E 989-18		IIC 55-58

UNDERFLOOR HEATING

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Floor Heating System	Yes suitable, see separate installation instructions		Max 32 °C

ENVIRONMENTAL CERTIFICATION

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
FloorScore	Indoor Air Quality Certified to SCS-EC10.3-2014 v4.0		confirm
TVOC	EN 16516 , ISO 16000		A+

Attention: The provided specifications represent typical values and may be subject to slight variations across production batches. Certain performance characteristics may naturally evolve over time with usage. Custom orders are available upon request.

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