Avorox™
REGENTIA
PREMIUM WPC FLOORING

Avolis
FLOORING YOU'LL LOVE

Technical Data Sheet

GENERAL CHARACTERISTIC

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Dimension	ASTM F2055		**9" × 72"** 228 × 1829 mm
Overall Thickness	ASTM F387		12.0 mm (with 2 mm cork) 2 mm vinyl top layer + 8 mm WPC core
Beveled Edge			Pressed Bevel – RegentContour™ *Pressed bevel technology with continuous wood-grain detailing*
Finish			Matte
Texture			EIR (Embossed-in-Register)
Design			Single, AB, or ABC
Thickness of Wear Layer	ASTM F410		22 Mil 0.55mm
Attached Underlayment			2 mm attached cork
Net Weight			22.5 kg
Package			5 pcs/carton 40 cartons/pallet 28 pallets per 40 ft container

TOLERANCE

CHARACTERISTICS	NORM	REQUIREMENT
Thickness Tolerance	ISO 24346	±0.13 mm (without underlay)
Dimension Tolerance	ISO 24342	Length ±2.0 mm / Width ±0.40 mm
Dimensional Stability	ASTM F2199-20(70°C, 6h)	Residential, (avg, max) ≤0.25% Commercial, (avg, max) ≤0.2%
Curling	ASTM F2199-20 (70°C, 6h)	≤ 0.080 in
Squareness	ISO 24342	≤ 0.25mm
Width Flatness	ISO10582 Annex B	± 0.2mm
Length Flatness	ISO10582 Annex B	fl, concave ≤ 0.15% fl, convex ≤ 0.20%
Openings / Assembling	ISO 10582 Annex C	Oavg ≤ 0.1 mm Omax ≤ 0.2 mm
Ledging	ISO10582 Annex C	Havg ≤ 0.1 mm Hmax ≤ 0.15 mm

SPECIFICATION

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Abrasion Resistance(0.15/0.3/0.5MM)	ASTM D4060		≥4000 cycles

Resistance to Staining	EN 423		No visible staining, discoloration or surface degradation
Castor Chair	ISO 4918		No visible damage after 25,000 cycles
Heat Stability	ASTM F1514		ΔE ≤ 8*
Light Stability	ASTM F1515		ΔE ≤8.0
Gloss Level			Ultra Matte 3–5 GU
Locking Strength	ISO 10582		Longitudinal 3.4 kN/m; Trans 3.6 kN/m
Micro Scratch Resistance	EN 16094		MSR-A1, MSR-B1
Heavy Metal content	ASTM F963		(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 puncture through wear layer/décor into rigid core
Residual Indentation	ASTM F1700/ASTM F1914		Average ≤ 0.18 mm
Chemical Resistance	ASTM F925		No more than a slight change in surface dulling, surface attack or staining

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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		≤5 ppm
Thermal Resistance	ASTM C518		0.03 to 0.05 m²·K/W (or 0.1 to 0.3 ft²·h·°F/BTU)
Slip Resistance	DN51130		Dry COF ≥0.50 Wet COF ≥0.42
Optical Smoke Density	ASTM E662		N/A

UNDERFLOOR HEATING

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
Floor Heating System			Max. 32°C

ENVIRONMENTAL CERTIFICATION

CHARACTERISTICS	NORM	SYMBOL	REQUIREMENT
FloorScore			confirm
TVOC	CA01350		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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