

DL400 Commercial 0.55

TECHNICAL DATA SHEET

DROPLOCK400

ELEMENTAL

LVT MULTILAYER FLOORING

BY ASPECTA®

PHYSICAL PROPERTIES & PACKAGING (FLOATING MULTILAYER MODULAR FLOORING – 7.0MM/0.55MM)

Series & Collections	Herringbone Collection (Emboss)	Square Tile (Rough Concrete Emboss)
	Woods • Limed Oak Grey (In-Register) • Scandinavian Oak Washed (In-Register) • Scandinavian Oak Treated (In-Register) • Scandinavian Oak Stained (In-Register) • Classic Oak Natural (Natural Timber)	Stone • Modern Concrete Camden (Textured Concrete) • Modern Concrete Sutton (Textured Concrete) • Modern Concrete Bexley (Textured Concrete) • Worn Screed Onyx (Coral) • Worn Screed Achat (Coral) • Classic Marble (Textured Concrete)
Construction: Extruded Vinyl Core Top Layer Pre-Attached Underlayment	4.0mm (0.157") ISOCORE Technology™ 2.0mm (0.079") Luxury Vinyl Tile (LVT) 1.0mm (0.039") Honeycomb HDPE with Ultra-Fresh	4.0mm (0.157") ISOCORE Technology™ 2.0mm (0.079") Luxury Vinyl Tile (LVT) 1.0mm (0.039") Honeycomb HDPE with Ultra-Fresh
Use	Commercial & Residential	Commercial & Residential
Size	120mm x 720mm (4.724" x 28.347")	600mm x 600mm (23.62" x 23.62")
Wear Layer	0.55mm (22mil)	0.55mm (22mil)
Edge Detail	Micro-Bevel Edge	Micro-Bevel Edge
Finish	Duraspect™ Extreme Surface Protectant	Duraspect™ Extreme Surface Protectant
Gauge	7.0mm (0,276")	7.0mm (0,276")
Mass per Unit Area	7.973kg/m ²	7.973kg/m ²
Pieces/Carton	24	5
Coverage/Piece	0.086 m ² (0.93 ft ²)	0.36 m ² (3.88 ft ²)
Coverage/Carton	2.07 m ² (22.28 ft ²)	1.8 m ² (19.38 ft ²)
Coverage/Pallet	36 Cartons/Pallet (74.60 m ² / 802.98 ft ²)	40 Cartons/Pallet (72 m ² / 775.6 ft ²)
Coverage/Container	28 Pallets/Container (2,090.19, m ² / 22,498.62 ft ²)	26 Pallets/Container (1,672 m ² / 20,165.6 ft ²)
Limited Warranty	10-Year Commercial 15-Year Residential	10-Year Commercial 15-Year Residential

EUROPEAN / INTERNATIONAL STANDARDS – CE CERTIFICATION / TESTING

Description	Standard	Symbol	Requirements	Results
CE Certification	EN 14041		Refer to Standards Below	Passes Requirements (Refer to Results Below)
Reaction to Fire (and Smoke Production)	EN 13501-1 EN ISO 9239-1 EN ISO 11925-2		B_{fl} - s1 Classification Critical Flux: ≥8.0kW/m ² Flame Spread: ≤150mm within 20s Smoke Value as % x min: ≤750	Passes Requirements
Content of PCP (Pentachlorophenol)	EN 14041		<5ppm	Passes Requirements
Formaldehyde Emission	EN 717-1		Class E1: Release ≤0.124mg/m ³	Passes Requirements
Slip Resistance (Dry)	EN 13893		Class DS: Coefficient of Friction ≥0.3	Surpasses Requirements

EUROPEAN / INTERNATIONAL STANDARDS – MANUFACTURING & USAGE (EN ISO 16511)

Description	Standard	Symbol	Requirements	Results
Classification (Level of Use)	EN 16511 EN ISO 10874		Commercial - Heavy (Class 33) Refer to Standard Below	Passes Requirements (Refer to Standard Below)
Wear Resistance IP, Method A	EN 13329, Annex E		≥2,000 Cycles	Surpasses Requirements
Impact Resistance (Big Ball)	EN 13329+A1, Annex F		≥1600mm	Surpasses Requirements
Micro-Scratch Resistance [Class]	EN 16094, Method B	N/A	≤MSR-B2	Passes Requirements (MSR-B2)
Castor Chair Resistance	EN 425		After 25,000 Cycles: No Disturbance to the Surface; No Delamination, Cracks, or Disruptions	Passes Requirements
Effect of Furniture Leg	EN 424		No Visible Damage	Passes Requirements
Residual Indentation	EN ISO 24343-1		≤0.2mm	Surpasses Requirements
Resistance to Staining [Grade, per Group]	EN 438-2 (Group 1 – Only 10 Minutes)		Groups 1 and 2: Grade 5 Group 3: Grade 4	Passes Requirements
Locking Strength	ISO 24334		Long Side ≥1.0kN/m Short Side ≥1.5kN/m	Surpasses Requirements
Length (l)	ISO 24337		$l \leq 1500\text{mm}$; $\Delta l \leq 0.5\text{mm}$ (Versus Nominal)	Passes Requirements
Width (w)			$\Delta w_{\text{avg}} \leq 0.10\text{mm}$ (Versus Nominal) $w_{\text{max}} - w_{\text{min}} \leq 0.20\text{mm}$	Passes Requirements
Squareness (q)			$q_{\text{max}} \leq 0.20\text{mm}$	Passes Requirements
Straightness (s)			$s_{\text{max}} \leq 0.30\text{mm/m}$	Passes Requirements
Thickness (f)	ISO 24337		$\Delta t_{\text{avg}} \leq 0.50\text{mm}$ (Versus Nominal) $t_{\text{max}} - t_{\text{min}} \leq 0.50\text{mm}$	Passes Requirements
Dimensional Stability Due to Variation of Temperature	EN ISO 23999		≤0.25%	Surpasses Requirements
Flatness (f)	ISO 24337	N/A	Maximum Single Values: $f_{w,\text{concave}} \leq 0.15\%$, $f_{w,\text{convex}} \leq 0.20\%$ $f_{l,\text{concave}} \leq 0.50\%$, $f_{l,\text{convex}} \leq 1.00\%$	Passes Requirements
Height Difference (h)	ISO 24337	N/A	$h_{\text{avg}} \leq 0.10\text{mm}$ $h_{\text{max}} \leq 0.15\text{mm}$	Passes Requirements
Openings (o)	ISO 24337	N/A	Measured from the Surface Between Vertical, Contacting Edges: $o_{\text{avg}} \leq 0.15\text{mm}$, $o_{\text{max}} \leq 0.20\text{mm}$	Passes Requirements

EUROPEAN / INTERNATIONAL STANDARDS – AUXILIARY PERFORMANCE & SAFETY

Description	Standard	Symbol	Requirements	Results
Slip Resistance (Wet)	DIN 51130	N/A	Grade R10: $\geq 10^\circ$ and $< 19^\circ$	Passes/ Surpasses Requirements
Slip Resistance (Australia / New Zealand)	AS 4586	N/A	Wet Pendulum (Slider 96) P3: 35-44 SRV (Square Tile) P4: 45-54 SRV (Herringbone) Oil-Wet Inclining Platform Grade R10: $\geq 10^\circ$ and $< 19^\circ$	Passes / Surpasses Requirements
Cooling Phase - Shrinkage (23°C to 5°C)	N/A	N/A	N/A	Dimensional Stability: $\leq 0.03\%$ Curling: $\leq 0.3\text{mm}$
Heating Phase - Expansion (23°C to 40°C)	N/A	N/A	N/A	Dimensional Stability: $\leq 0.03\%$ Curling: $\leq 0.3\text{mm}$
Thermal Resistance	EN 12664		N/A	$0.08800\text{m}^2\text{K/W}$ at 10°C
Static Electrical Propensity	EN 1815, Method A		N/A	$< 2\text{kV}$
Impact Sound Insulation ¹	EN ISO 10140-3 ISO 717-2 EN ISO 140-8		N/A	$\Delta L_W = 19\text{dB}$
A-weighted walking sound pressure level	EN 16205:2013		N/A	$L_{n,walk,A} = 84\text{dB(A)}$
Product-Content Safety	REACH SVHC 169	N/A	Refer to Standard	Passes Requirements

Footnotes

1) **Impact Sound Insulation (EN ISO 10140-3, ISO 717-2, EN ISO 140-8):** ΔL_W = Weighted Reduction of Impact Sound Pressure Level

The manufacturing facility is ISO 9001 (Quality Management System) and ISO 14001 (Environmental Management System) certified.