EGR DECOR

StyleLex®

HPL Carcass Panel

Technical Data Sheet

Luxury Covered Outdoor & Wet Are Panels

Australia & New Zealand

February 2026

TECHNICAL DATA SHEET

StyleLex HPL Carcass Panel

StyleLex is a high-performance panel system designed for covered exterior and interior wet-area applications. The construction integrates a weather-resistant composite core (WCC) with a high-quality HPL backing surface using advanced PUR reactive hot-melt technology, delivering advanced water and moisture resistance in cabinetry structures. Typical uses include cabinet carcass, support structures, kickboards, drawer bottoms used in alfresco kitchens, outdoor entertainment spaces, laundry areas, mudrooms, and similar high-moisture applications.

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FACE SURFACE	BACK SURFACE	CORE MATERIAL	BONDING SYSTEM
Premium HPL Backing Sheet	Premium HPL Backing Sheet	Weatherproof Composite Core (WCC)	Advanced PUR Reactive Hot-Melt Adhesive System

PROPERTY	SPECIFICATION	TEST METHOD
Physical & Dimensions		
Density	685 kg/m^3	EN 323
Board Length	2400mm	EN 324-1
Board Width	1200mm	EN 324-1
Board Thickness	16mm Nominal	EN 324-1
Board Weight	11 kg/m^2	EN 323
Mechanical		
MOR	≥ 30 MPa	EN 310
MOE	≥ 800 MPa	EN 310
Screw Retention - Face	≥ 800 N	ISO 13894-1
Screw Retention - Edge	≥ 700 N	ISO 13894-1
Surface		
Colour Tolerance	Solid Colours, dE ≤ 2	ASTM D 2244
Gloss Level	≤ 10 GU	ASTM D 523 (60°)
Resistance to surface wear	≥150 Rev	EN 438-2
Resistance to impact	≥ 20N	EN 438-2
Resistance to scratching	≥ Rating 3	EN 438-2
Resistance to wet heat at 100°C	≥ Rating 4	EN 438-2
Resistance to dry heat at 160°C	≥ Rating 4	EN 438-2
Resistance to stains	Rating 5 Group I & II Rating 5 Group III	EN 438-2
Resistance to water vapour	≥ Rating 5	EN 438-2
Resistance to boiling water	≥ Rating 4	EN 438-2
Resistance to light fastening (Xenon-arc)	≥ Gray Scale Rating 4 - Contrast	EN 438-2

Quality		
Surface defects	≤ 1mm²/m² – Spots ≤ 10mm/m² – Liner	EN 438-2
Surface bond strength	≥ Rating 4	ISO 13894-1
Deviation to flatness	≤ 3 mm/meter any direction	ISO 13894-1
Resistance to water (edge swell 24 hrs.)	≤ 1%	ISO 13894-1
Resistance to elevated T° (short term)	No visible change after 1 hour at 80°C.	ISO 13894-1
Resistance to elevated T° (long term)	No visible change after 16 hours at 80°C.	ISO 13894-1
Resistance to water vapor	No visible change after 1 hour exposure	ISO 13894-1
Resistance to elevated T° (short term)	No noticeable change	ISO 13894-1
Resistance to climate shock	No visible change after 6 cycles of 4 hours at 80°C followed by 4 hours at -10°C.	EGR Internal Method
Resistance to submersion in water	Withstands full submersion up to 30 days under ambient conditions	EGR Internal Method

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