

lightweight panels

ISOLSTREAM ™ PET

Sandwich panel consisting of a core made of recycled PET foam and outer layers of Cl3-grade okoumé plywood

*No fire rating available

Finishes	Brute, Re-veneering available upon request: natural wood veneer, HP laminate
Advantages	Good mechanical and thermal strength, excellent screw retention—particularly in the 18-mm version—and compatibility with all standard joining methods (dowels, tongue-and-groove joints, Clamex™, Tenso™, Cabinéo™), good moisture resistance
Gross thickness before veneering	18 mm / 26 mm / 38 mm (+ or - 0.5) / Pre-sanded B/B (to be painted)
Size	18 mm - 2500 x 1200 / foam 150 kg/m³ “approx. 6.3 kg/m²” K2.90 26 mm - 2420x980 / foam 50 kg/m³ “approx. 5.7 kg/m²” K1.41 38mm - 2500x1200 / foam 50 kg/m³ “approx. 6.3 kg/m²” K0.88 4mm CL3 okoumé plywood facings for all thicknesses
Applications	18 mm: Lightweight furniture, partitions, doors, suspended ceilings, floors, sliding doors, window frame trim, bathroom-compatible access panels
All Isolstream versions can be worked on using all standard carpentry tools	26 mm / 38 mm: Used for vertical bookcase posts, lightweight shelves, infill panels for wide-frame doors, etc.

1. APPLICATIONS



Hotel, Restaurant
Interior materials for commercial or office premises



Door, molding



Kitchen, Bathroom, Interior wall panels



Exhibition stand, stage, sign



Furniture, Interior Decoration



Jouet, educational tool

2. TECHNICAL DETAILS

CLASSIFICATION OF ATTRIBUTES			standard figures				
properties	STANDARD	UNIT	5	8/9	12	15/16	18/19
THICKNESS	EN 324-1	mm	5	8/9	12	15/ 16	18/19
DENSITY	EN3 2 3	KG/M3	820	780	760	760	740
MOISTURE CONTENT	EN3 2 2	%	7 +/- 2.0				
THICKNESS SWELLING (24H)	EN3 1 7	%	18	12	10	8	8
INTERNAL OBLIGATION	EN3 19	N/ mm2	≥ 1.00	≥ 0,80	≥ 0,80	≥ 0,75	≥ 0,75
BENDING STRENGH	EN3 10	N/ mm2	≥ 34	≥ 34	≥ 32	≥ 30	≥ 30
ELASTICITY ODULE	EN3 10	N/ mm2	≥ 3000	≥ 3000	≥ 2800	≥ 2700	≥ 2700
THICKNESS SWELLING AFTER CYCLIC TEST	EN3 2 1	%	25	19	16	15	15
INTERNAL BOND AFTER CYCLIC TEST	EN3 2 1	N/ mm2	0,35	0,30	0,25	0,20	0,20

3. GENERAL ACCURACY

CLASSIFICATION OF ATTRIBUTES			STANDARD FIGURES				
PROPRIÉTÉS	STANDARD	UNIT	5	8/9	12	15/16	18/19
TOLERANCES (THICKNESS)	EN 324-1	mm	+ / - 0,2	+ / - 0,2	+ / - 0,2	+ / - 0,2	+ / - 0,2
TOLERANCES (LENGTH AND WIDTH)	EN 324-1	mm/ M	+ / - 3.0	+ / - 3.0	+ / - 3.0	+ / - 3.0	+ / - 3.0
TOLERANCES (PERPENDICULARITY)	EN 324-2	mm/ M	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2
TOLERANCES (STRAIGHTNESS OF THE EDGES, LENGTH AND WIDTH)	EN 324-2	mm/ M	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
TOLERANCES (DENSITY)	EN3 2 3	%	+ / - 7	+ / - 7	+ / - 7	+ / - 7	+ / - 7
TOLERANCES (DENSITY) FORMALDEHYDE EMISSION (CLASS E0)	EN120		Class E1 / Class E0 in the desiccator method				

4. ADVANTAGE

Has a high resistance to moisture thanks to the high melamine content of the resin used. It can be used in places where moisture is a problem.

Such as kitchens, bathrooms with appropriate finishes.

Uniform distribution of color from the surface to the core of the product

The formaldehyde emissions from FORESCOLOR are classified as E0 (according to the desiccator method)
Non-toxic and excellent solidification of colors thanks to the use of a special resin and an organic dye

Thanks to its excellent density profile and the high melamine content of the resin used, sanding after machining is minimal or even unnecessary.

ON REQUEST

A fire retardant is also available (class Bs2, d0)

NAF — No formaldehyde resin is used during the manufacturing process.

5. CERTIFICATION

KSA ISO 9001 CERTIFIED · Korea Eco-Label · CARB ULEF COMPLIANT N-14-180 · FSC · JIS · CE