



BALECO LP

Preliminary Version

The BALECO LP is the perfect combination of a lightweight balsa core with thin MDF faces for interior architecture designs and applications. The clever combination of a lightweight core and stiff surface layers provides excellent stiffness and rigidity at an extremely low weight combined with ease of processing, fastening and surface finishing.

Applications

- Shelving boards, tabletops and desktops
- Furniture and components in shop fittings and point of sale displays
- Furniture and shelves for exhibition booths
- Airport, hotel and restaurant interiors
- Bars and countertops
- Components for interior fittings
- Interior cabinetry and furniture for mobile applications (recreational vehicles, yachts, trains etc.)

Ecologic

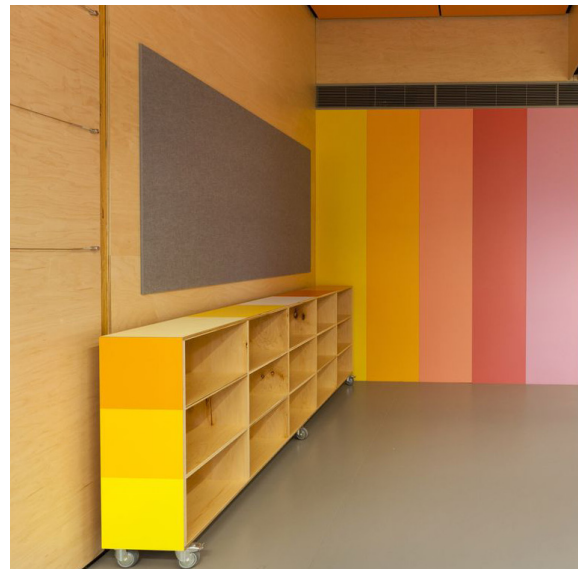
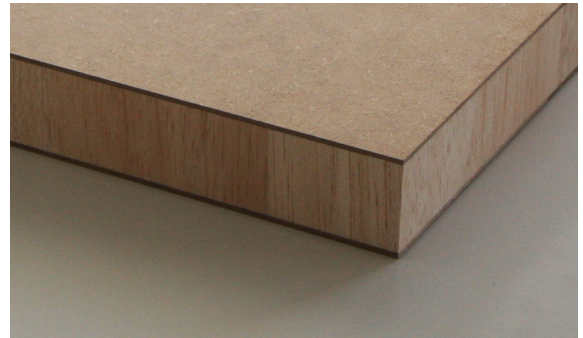
BALECO LP is made with material from renewable resources to maintain the ecologic balance, but also to ensure the continuous supply to the customer. Ask for our 100% FSC™-certified products.

High performance

The end grain configuration of the balsa core – meaning fiber direction perpendicular to the panel plane – provides high compression properties, perfect dimensional stability and best stiffness to weight ratio to the BALECO LP.

Easy processing

The dense and homogeneous MDF surface layers provide excellent rigidity but also easy machining, fastening and finishing properties. It also provides a good base for gluing, lamination, painting and coating.



The mark of
responsible forestry

3A Composites owns and manages around 10'000 ha of FSC™-certified balsa plantations in Ecuador (Plantaciones de Balsa Plantabal S.A.). Its own cultivation of seedlings and local mills ensure sustainable forest management and continuous supply to industrial customers.



Standard Product Configurations and Tolerances

Property	Standard	Unit	Nominal values			
Panel size	-	mm	2440x1220			
Panel thickness	-	mm	25	35	38	50
Thickness of surface layers	-	mm	3			
Moisture content (MC)	EN 322	%	9 ±3			
Thickness tolerance	EN 324	mm	±0.6			
Length and width tolerance	EN 324	mm	±3			
Squareness	EN 324	mm/m ¹	≤2.0			
Edge straightness	EN 324	mm/m ¹	≤2.0			

Mechanical Properties

Property	Standard	Unit	Nominal values			
Panel thickness	-	mm	25	35	38	50
Panel weight	-	kg/m ²	6.8	7.9	8.2	10
Volume weight	-	kg/m ³	270	225	215	200
Face thickness	-	mm	3	3	3	3
Bending modulus (MOE)	EN 310	N/mm ²	1450	1100	950	900
Bending strength (MOR)	EN 310	N/mm ²	9.5	7.3	5.8	5.2
Thermal conductivity	-	W/m.K	0.076	0.073	0.072	0.070
Screw holding face	EN 320	N	300			
Adhesive type to bond of surface layers	DIN EN 204	-	D4, no added formaldehyde (NAF)			
Formaldehyde Emissions	EN 120	-	MDF faces certified CARB, Phase 2 and E1 (<3mg/100g). The balsa core is a no added formaldehyde product (NAF).			