

Lariphon ECO, Lariphon ECO S

Revision Nr:
09

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BELLOTTI
L'EVOLUZIONE DEL LEGNO



The Right choice for durability and mechanical performances beyond acoustic insulation:

Lariphon ECO

Lariphon ECO S

the composite panel formed by an elastomeric core embedded into birch plywood, with faces coated by thermosetting resin.

Because of their production process, **Lariphon ECO** and **ECO S** offers excellent mechanical strength. The resin coated surfaces give higher hardness, durability and improves fire performance, while the elastomeric core improves the acoustic performance.

APPLICATIONS

Lariphon ECO and **ECO S** application fields are on High-Speed Trains, Trains, Subways, Trams, Trucks and Buses.

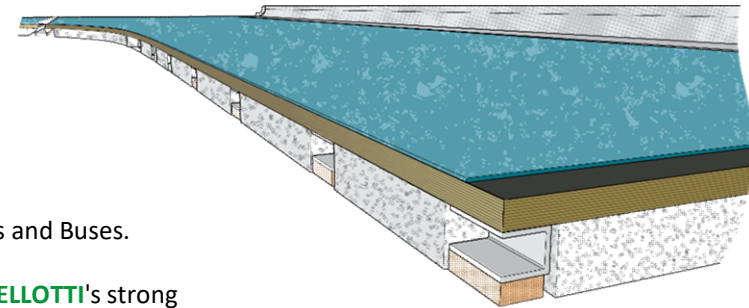
Designed according to the **RAILWAY SECTOR** specifications and requirements, thanks to the solid **BELLOTTI**'s strong expertise in design, testing and supply integrated systems, our Customer can take profit of Bellotti's know-how and **co-design** with us the complete floor system.

Thickness	Ref.	mm	15	16	(a)18	19	20
Weight	EN 323	ECO	10,9	11,7	--	--	--
		ECO S	--	--	13,8	14,3	15,5
RW index	UNI EN 10140 EN ISO 717-1	ECO	32	34	--	--	--
		ECO S	--	--	33	33	34
Fire Reaction	EN 45545-2	R10 IN15	Class	HL2*	HL3**	HL3*	HL3*
STANDARD SIZES							
(1230 X 2480, 1500 X 2480, 1500 X 3000) mm							
Special dimensions to be confirmed on demand							

* = with ^{RL}/_{RZ} and ^{RL}/_{RL} finishing

** = with ^{RL}/_., ^{RL}/_{RZ} and ^{RL}/_{RL} finishing

(a) = Measure subject to a minimum batch order to be confirmed by Sales Dept



RAILWAY
COMPOSITE PANELS

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Note: The data shown in the following technical data sheet are to be considered indicative and subject to change without prior notice. It is the responsibility of the purchaser to determine that Bellotti products are suitable for the desired applications and to ensure that the places and methods of use comply with the provisions of the supplier and the normatives in force.



Lariphon ECO and **ECO S** are composite panels, combining rubber-cork and birch plywoods. The rubber-cork core is adopted to improve acoustic performance.

The thermosetting resin applied on surfaces gives higher hardness, durability and assures improved fire performances.

STANDARD SIZES

(1230 X 2480, 1500 X 2480, 1500 X 3000) mm

Special dimensions to be confirmed on demand

Because of its particular production process, **Lariphon ECO** and **ECO S** offers excellent mechanical performances, offering additional **CONFIGURATION OPTIONS**, such as:

S = heavier rubber-cork core, to increase sound insulation

F15 = Preservative Treatment for Durability Improvement

RL = surface **smooth** resined

RZ = surface **knurled** resined

- = surface without resin (i.e: **RL/-** means one smooth resined face and one raw wood face)

+B = Edges moisture ingress protected by non-hygroscopic paint

		Properties	Standard	Unit	Values				
G E N E R A L	Nominal Thickness	[]	mm	15	16	18 S	19 S	20 S	
	Thickness Tolerance	[]	mm	+0,2/-0,5	+0,2/-0,8	+0,2/-0,8	+0,2/-0,8	+0,2/-0,8	
	Edge Straightness and Panel Squareness Tolerances	EN 315	mm/m	1	1	1	1	1	
	Length and Width Tolerances	[]	mm	±2	±2	±2	±2	±2	
	Surface weight	[]	kg/m ²	10,9	11,7	13,8	14,3	15,5	
M E C H A N I C A L	Bonding Quality	EN 314-2	Class	3	3	3	3	3	
	Bending Strength: Long Grain	EN 310	MPa	≥52	≥52	≥34	≥40	≥45	
	Bending Strength: Cross Grain	EN 310	MPa	≥40	≥40	≥40	≥34	≥40	
	E-Modulus: Long grain	EN 310	MPa	≥4300	≥4300	≥3000	≥3500	≥4000	
	E-Modulus: Cross grain	EN 310	MPa	≥3500	≥3500	≥3500	≥3000	≥3500	
	Screw withdrawal axial resistance	EN 320	daN	≥150	≥200	≥200	≥200	≥250	
	Airborne Sound Insulation	UNI EN 10140 EN ISO 717-1	dB	32	34	33	33	34	
	Thermal Transmittance (by Calculation)	UNI EN ISO 6946	W/(m ² ·K)	9,9	10,7	8,5	8,3	7,5	
	Fire reaction	EN 45545-2 for R10 IN15	Class	HL2*	HL3**	HL3*	HL3*	HL3*	
Notes:		* = with ^{RL} / _{RZ} and ^{RL} / _{RL} finishing ** = with ^{RL} / _{./} , ^{RL} / _{RZ} and ^{RL} / _{RL} finishing (a) = Measure subject to a minimum batch order to be confirmed by Sales Dept							

Designation Example: **Lariphon ECO S 18 F15 RL/RZ +B** meaning: Lariphon ECO 18 mm thick, with heavy core, treated for durability increase, bottom face smooth resined, top face knurled resined, edges protected against moisture

ATTENTION: in case of cuts and millings the carved parts have to be protected with appropriate varnish in order to keep unchanged the waterproof characteristics on the panel edge

The information contained in this technical data sheet is given as a pure indication and can be modified without prior notice. The purchaser is responsible for verifying the product's adequacy to the end uses and for making sure that the use's place and criteria comply with the Manufacturer's prescriptions and with the laws in force