



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

## Lariphon ECO Light

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

<b>Thickness</b>	<b>Ref.</b>	<b>mm</b>	<b>16,5</b>
<b>Surface Weight</b>	EN 323	<b>kg/m<sup>2</sup></b>	<b>10,6</b>
<b>RW index</b>	UNI EN 10140 EN ISO 717-1	<b>dB</b>	<b>32</b>
<b>Fire Reaction</b>	EN 45545-2 R10 IN15	<b>Class</b>	<b>HL2*</b>
<b>STANDARD SIZES</b>			
( 1230 X 2480, 1500 X 2480, 1500 X 3000 ) mm			
Special dimensions to be confirmed on demand			

\* = with <sup>RL</sup>/<sub>RZ</sub> finishing

\*\* = with <sup>RL</sup>/<sub>RZ</sub> and <sup>RL</sup>/<sub>RZ</sub> finishing

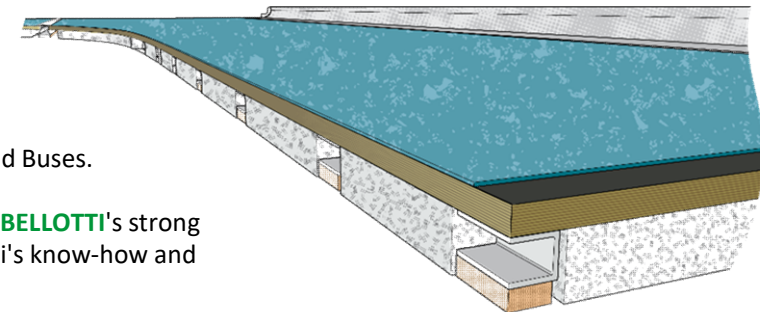
(a) = Measure subject to a minimum batch order to be confirmed by Sales Dept

Because of his production process, **Lariphon ECO Light** 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 Light** 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.



# 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 Light** is a composite panel, combining cork and birch plywoods.  
The 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 Light** offer excellent mechanical performances, offering additional **CONFIGURATION OPTIONS**, such as:

**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	<b>16,5</b>
	Thickness Tolerance	[]	mm	<sup>+0,2</sup> / <sub>-0,8</sub>
	Edge Straightness and Panel Squareness Tolerances	EN 315	mm/m	1
	Lenght and Width Tolerances	[]	mm	±2
	Density	EN 323	kg/m <sup>2</sup>	645
	Surface Weight	[]	kg/m <sup>2</sup>	10,6
	M E C H A N I C A L	Bonding Quality	EN 314-2	Class
Bending Strenght: Long Grain		EN 310	MPa	≥56
Bending Strenght: Cross Grain		EN 310	MPa	≥46
E-Modulus: Long grain		EN 310	MPa	≥4800
E-Modulus: Cross grain		EN 310	MPa	≥4100
Screw withdrawal axial resistance		EN 320	daN	≥155
	Airborne Sound Insulation	UNI EN 10140 EN ISO 717-1	dB	32
	Thermal Trasmittance (by Calculation)	UNI EN ISO 6946	W/(m <sup>2</sup> .K)	5,8
	Fire reaction	EN 45545-2 for R10 IN15	Class	HL2*
Notes:				
* = with <sup>RL</sup> / <sub>RZ</sub> finishing				
** = with <sup>RL</sup> / <sub>.</sub> and <sup>RL</sup> / <sub>RZ</sub> finishing				
(a) = Measure subject to a minimum batch order to be confirmed by Sales Dept				

Designation Example: **Lariphon ECO Light 16,5 F15 RL/RZ +B** meaning: Lariphon ECO Light 16,5 mm thick, 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

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