

# Lariphon F

Revision Nr:  
05

**BELLOTTI**  
L'EVOLUZIONE DEL LEGNO



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

## Lariphon F

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

Because of its production process, **Lariphon F** 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 F** 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	12	15	19	20	22	27
<b>Weight</b>	EN 323	kg/m <sup>2</sup>	9,5	11,8	14,8	15,5	17,0	20,8
<b>RW index</b>	UNI EN 10140 EN ISO 717-1	dB	29	31	32	32	34	36
<b>Fire Reaction</b>	EN 45545-2	R10 IN15	Class	<b>HL3*</b>	<b>HL3*</b>	<b>HL3*</b>	<b>HL3*</b>	<b>HL3*</b>

### STANDARD SIZES

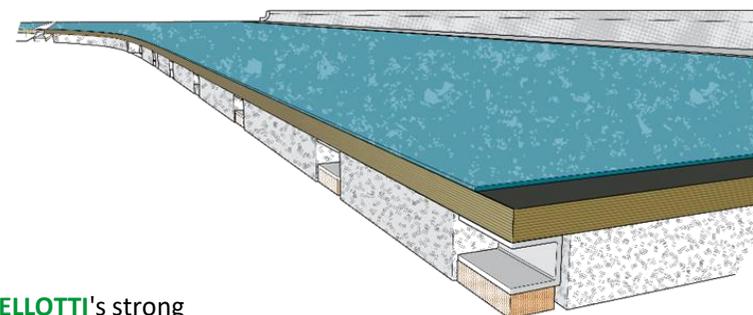
( 2500X1250 ) mm

Special dimensions to be confirmed on demand

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

\*\* = with <sup>RL</sup>/<sub>L</sub> and <sup>RL</sup>/<sub>RZ</sub> 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 F** is a composite panel, combining rubber-cork and beech plywood. 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.

Properties	Standard	Unit	Values						
GENERAL	Nominal Thickness	[ ]	mm	<b>12</b>	<b>15</b>	<b>19</b>	<b>20</b>	<b>22</b>	<b>27</b>
	Thickness Tolerance	[ ]	mm	<sup>+0,2</sup> / <sub>-0,5</sub>	<sup>+0,2</sup> / <sub>-0,8</sub>	<sup>+0,2</sup> / <sub>-0,8</sub>	<sup>+0,2</sup> / <sub>-0,8</sub>	<sup>+0,2</sup> / <sub>-1</sub>	<sup>+0,2</sup> / <sub>-1,2</sub>
	Edge Straightness and Panel Squareness Tolerances	EN 315	mm/m	1	1	1	1	1	1
	Length and Width Tolerances	[ ]	mm	±2	±2	±2	±2	±2	±2
	Surface weight	[ ]	kg/m <sup>2</sup>	9,5	11,8	14,8	15,5	17,0	20,8
	MECHANICAL	Bonding Quality	EN 314-2	Class	3	3	3	3	3
Bending Strength: Long Grain		EN 310	MPa	≥55	≥55	≥55	≥50	≥50	≥50
Bending Strength: Cross Grain		EN 310	MPa	≥40	≥40	≥40	≥40	≥40	≥40
E-Modulus: Long grain		EN 310	MPa	≥4500	≥4500	≥4500	≥4500	≥4500	≥4500
E-Modulus: Cross grain		EN 310	MPa	≥2000	≥2300	≥2500	≥2500	≥2500	≥3500
Screw withdrawal axial resistance		EN 320	daN	≥200	≥245	≥260	≥260	≥260	≥300
ACOUSTIC	Airborne Sound Insulation	EN ISO 717-1	dB	29	31	32	32	34	36
	Thermal Trasmittance (by Calculation)	UNI EN ISO 6946	W/(m <sup>2</sup> ·K)	11,6	9,7	8,0	7,7	7,1	5,9
	Fire reaction	EN 45545-2 for R10 IN15	Class	HL3*	HL3*	HL3*	HL3*	HL3*	HL3*
Notes:	* = with <sup>RL</sup> / <sub>RZ</sub> finishing ** = with <sup>RL</sup> / <sub>RZ</sub> and <sup>RL</sup> / <sub>RZ</sub> finishing								

**STANDARD SIZES**

( 2500X1250 ) mm

Special dimensions to be confirmed on demand

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

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

**RL** = surface **smooth** resined

**RZ** = surface **knurled** resined

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

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

Designation  
Example:

**Lariphon F 18 RL/RZ +B**

meaning:

Lariphon F 18 mm thick, 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 purchases 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

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