

# ultralight

## ULTRALIGHT, INSULATING, HIGH-PERFORMANCE SANDWICH PANELS



### Excellent insulation

Both thermal and acoustic, accredited according to UNE-EN ISO 10140-2:2011.



### Dimensional stability

Excellent results in terms of modulus of elasticity and rupture.



### Easily machinable

Very easy to machine and sand using all sorts of tools: traditional, CNC and wood shapers.



### Quality XPS core

High mechanical resistances, water tolerance, uniform seal and cellular structure.



### Ultra-lightweight

Specially designed for lightweight applications.



### HPL Laminated finish

Available with laminated finish in different colours and wood textures.

*Lightness that challenges  
the impossible*

# garnica

Challenge the ordinary



# ultralight

## ULTRALIGHT, INSULATING, HIGH-PERFORMANCE SANDWICH PANELS

Ultralight sandwich panels comprise an insulating XPS –extruded polystyrene– core, plywood panel made from European poplar sourced from sustainable plantations and a wide range of finishes of exceptional surface quality.

Combining the excellent mechanical properties of Garnica plywood –lightness, stability and machinability– with an insulating and ultralight material such as extruded polystyrene, produces a panel with superior performance.

Plywood  
+  
XPS  
+  
Plywood



### Formats (mm)

Total thickness		12	15	18	22	24	25	26	28	30	32	38	40	48	50	58	60	68	78
Composition	Plywood	3.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	XPS	5	6	9	13	15	16	17	19	21	23	29	31	39	41	49	51	59	69
	Plywood	3.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Ultralight Duraply			✓ 296 kg/m <sup>3</sup>	✓ 253 kg/m <sup>3</sup>	✓ 213 kg/m <sup>3</sup>					✓ 175 kg/m <sup>3</sup>	✓ 166 kg/m <sup>3</sup>		✓ 138 kg/m <sup>3</sup>	✓ 133 kg/m <sup>3</sup>	✓ 117 kg/m <sup>3</sup>		✓ 103 kg/m <sup>3</sup>	✓ 93 kg/m <sup>3</sup>	✓ 85 kg/m <sup>3</sup>
Ultralight E-wood*	2500 x 1220	✓ 277 kg/m <sup>3</sup>	✓ 284 kg/m <sup>3</sup>	✓ 243 kg/m <sup>3</sup>	✓ 205 kg/m <sup>3</sup>	✓ 191 kg/m <sup>3</sup>	✓ 184 kg/m <sup>3</sup>	✓ 179 kg/m <sup>3</sup>	✓ 168 kg/m <sup>3</sup>	✓ 160 kg/m <sup>3</sup>	✓ 152 kg/m <sup>3</sup>	✓ 133 kg/m <sup>3</sup>	✓ 128 kg/m <sup>3</sup>		✓ 110 kg/m <sup>3</sup>		✓ 97 kg/m <sup>3</sup>		
Ultralight Poplar			✓ 284 kg/m <sup>3</sup>	✓ 243 kg/m <sup>3</sup>	✓ 205 kg/m <sup>3</sup>	✓ 191 kg/m <sup>3</sup>	✓ 184 kg/m <sup>3</sup>	✓ 179 kg/m <sup>3</sup>	✓ 168 kg/m <sup>3</sup>	✓ 160 kg/m <sup>3</sup>	✓ 152 kg/m <sup>3</sup>	✓ 133 kg/m <sup>3</sup>	✓ 128 kg/m <sup>3</sup>		✓ 110 kg/m <sup>3</sup>		✓ 97 kg/m <sup>3</sup>		
	3050 x 1300		✓ 284 kg/m <sup>3</sup>	✓ 243 kg/m <sup>3</sup>	✓ 205 kg/m <sup>3</sup>	✓ 191 kg/m <sup>3</sup>	✓ 184 kg/m <sup>3</sup>	✓ 179 kg/m <sup>3</sup>	✓ 168 kg/m <sup>3</sup>	✓ 160 kg/m <sup>3</sup>	✓ 152 kg/m <sup>3</sup>	✓ 133 kg/m <sup>3</sup>	✓ 128 kg/m <sup>3</sup>		✓ 110 kg/m <sup>3</sup>		✓ 97 kg/m <sup>3</sup>		
	3100 x 1530		✓ 284 kg/m <sup>3</sup>	✓ 243 kg/m <sup>3</sup>	✓ 205 kg/m <sup>3</sup>	✓ 191 kg/m <sup>3</sup>	✓ 184 kg/m <sup>3</sup>	✓ 179 kg/m <sup>3</sup>	✓ 168 kg/m <sup>3</sup>	✓ 160 kg/m <sup>3</sup>	✓ 152 kg/m <sup>3</sup>	✓ 133 kg/m <sup>3</sup>	✓ 128 kg/m <sup>3</sup>		✓ 110 kg/m <sup>3</sup>		✓ 97 kg/m <sup>3</sup>		



\* Ultralight E-wood composition with 3.5 mm plywood.

HPL finish is available on request. Check dimensions and thicknesses with your local sales manager.

### Technical features

Products	Total thickness (mm)	Composition (mm)	Weight per m <sup>2</sup>	Density (Kg/m <sup>3</sup> )	Face Screw Holding (N)	Plywood Moisture Content (%)	MOE (N/mm <sup>2</sup> )		MOR (N/mm <sup>2</sup> )		Thermal performance	
							Long.	Perp.	Long.	Perp.	"R" thermal resistance (m <sup>2</sup> •K/W)	Thermal transmittance "u" (W/m <sup>2</sup> K)
Ultralight Poplar, Ultralight E-wood	18	4.5 + 9 + 4.5	4.09	227	410	6-14	1500	2500	17	14	0.496	2.01
Ultralight Duraply	18	4.5 + 9 + 4.5	4.37	243	410	6-14	1500	2500	17	14	0.339	2.95

### ultralight poplar

Ultralight sandwich panel with XPS core and poplar plywood. Its light-coloured poplar faces and premium-quality inner sheets make it ideal for painting, laminating/filming and for digital and screen printing.

**Glue Type:** Class I - E1 (interior)

**Quality faces:** BB/BB. BB faces with natural colouring of the poplar heartwood, typical number of knots. Both faces repaired. Ideal for coatings.

CE + Certificates on request: PEFC\*, FSC®\*\*



### ultralight duraply

Ultralight sandwich panel with XPS core and durable plywood. The wood is modified using an innovative treatment that makes 100% of the plywood exceptionally durable and immune to fungal and insect attacks in outdoor use.

**Glue Type:** Class III - E1 (exterior)

**Quality faces:** BB/BB

CE + Certificates on request: PEFC\*, FSC®\*\*



**5 YEAR WARRANTY**

5-year guarantee against delamination and fungal and xylophage insect attack  
+ Info [www.duraply.one](http://www.duraply.one)

### HPL

Ultralight Poplar and Ultralight Duraply also available in a laminated decorative finish (HPL) –in a variety of uniform colours and wood textures– for an attractive appearance and exceptional resistance to impact and scratching.



HPL

### ultralight e-wood

Ultralight panel with XPS core, poplar plywood and e-wood faces. The main characteristics of this engineered wood or e-wood are its significant surface uniformity that is ideal for covering and its outstanding surface toughness with excellent scratch and splitting resistance.

**Glue Type:** Class I - E1 (interior)

CE + Certificates on request: PEFC\*



*Other decorative finishes in natural wood available on request.*

\* Applicable to the plywood panels

The figures included in this commercial datasheet are for information purposes only and have no contractual value. The formats, combinations of species and technical characteristics may vary with no prior notification based on new developments, technological advancements or market needs. The buyer is responsible for deciding whether the Garnica product is suitable for the desired application, and will be required to ensure that the location and way in which it is used are suitable according to the manufacturer's instructions and suggestions, as well as its compliance with current regulations.

# ultralight

The Ultralight product range is perfect for countless applications, especially for lightweight applications or where thermal insulation and soundproofing are particularly important, including for outdoor use.

**Mobility and transportation:**  
converting vans to campers,  
interior furnishings for caravans  
and the marine industry



**Interior decoration:**  
panelling, roofing, doors,  
mouldings and all types  
of decorative panelling



**Interior furnishings  
and DIY projects:**  
wardrobes, shelves, tables,  
chairs and all types of  
kitchen furniture



**Advertising:**  
posters, signs, stands,  
commercial establishments  
and advertising hoardings



**Outdoor use:**  
prefabricated houses  
or garden cabins,  
exterior soundproofed  
doors and fences



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