

Ultralight

Ultralight, high-performance sandwich panel

Ultralight sandwich panel with an insulating XPS (extruded polystyrene) core combined with plywood made entirely of European poplar from sustainable tree farms.

The lightly colored poplar faces, and premium quality inner veneers make this panel ideal for painting, laminating/films, and digital or screen printing.

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

Also available with a decorative HPL/CPL laminate finish of exceptional beauty, very resistant to impact and scratching, in a wide variety of uniform colors and wood textures.

PART 1 - GENERAL

1. Abbreviation and acronyms

- a) CARB: California Air Resources Board
- b) TSCA: Toxic Substances Control Act
- c) PEFC: Programme for the Endorsement of Forest Certification
- d) FSC®: Forest Stewardship Council®
- e) LEED®: Leadership in Energy and Environmental Design
- f) EN: European Norms

2. References Standards

- a) USGBC LEED – Green Building Rating System™

3. Submittals Procedures

- a) Product Data: Ultralight plywood
- b) Informational
 - i. Material Certificates and Tests available for the product:
 - i. CARB Compliance: Phase 2 formaldehyde emissions certifications
 - ii. US EPA TSCA Title VI certification
 - iii. FSC® certification (available as FSC Mix. FSC-C116880).
 - iv. PEFC certification (available as PEFC certified. AEN-PEFC-COC-0016)

PART 2 - PRODUCT

1. Description

Ultralight sandwich panels consist of an insulating XPS (extruded polystyrene) core, a plywood panel made from sustainably sourced European poplar, and a variety of high-quality surface finishes. By combining the superb mechanical properties of Garnica plywood, including lightness, stability, and machinability, with the insulating and lightweight qualities of extruded polystyrene, these panels offer superior performance.

Exceptional qualities:

- a) Exceptionally lightweight. 29.2 Lb kg/m³ (Density: thickness 3/4"; ± 5% tolerance)
- b) Excellent heat insulation and soundproofing.
- c) Dimensional stability. Excellent results in terms of modulus of elasticity and rupture.
- d) Easy to machine. Very easy to cut and sand.
- e) HPL/CPL. Available with a laminated finish.
- f) Responsibility. CARB Phase 2, TSCA Title VI.
- g) Sustainability. Certified fast-growing European tree farms.

2. Properties

- a) Glue Type: Interior – Exterior
- b) Emissions: CARB Phase 2 / US EPA TSCA Title VI certified
- c) Face Grade: BB/BB

3. Technical features

- a) Density – 14.42 Lb/ft³ (EN 323)
- b) MOE – 1500-2500 N/mm² (EN 310)
- c) Face screw holding - 92 Lbf (EN 320)
- d) Moisture content - 6-14 % (EN 322)

4. Available sizes

- a) Length and width: 48.5" x 96.5", 60.5" x 120.5", 48.5" x 120.5"
- b) Thicknesses: 5/8", 3/4", 1", 1 1/2", 2"

5. Materials:

- a) Composition:
 - i. Face: poplar
 - ii. Core: poplar
 - iii. Back face: poplar

6. Storage, usage, and handling

Check the most updated information about [Ultralight Good Practice here](#).