



**STARCELL S.p.A. - Honeycomb & Composite Panels**

Via Sebenico 22 - 20124 Milano

Tel: +39 026883537 - Fax : +39 0269008152

E Mail: [info@starcellspa.com](mailto:info@starcellspa.com) Website: [www.starcellspa.com](http://www.starcellspa.com)

## XILOCELL® PANEL LMW-CMP



**THICKNESSES:** 13-15-20-22-25 mm (standard) – Poplar Plywood  
13-19-22 mm (standard) – Okoumè Plywood.  
Other thicknesses on request (minimum quantity).

**SKINS:** POPLAR (3 mm) - OKOUME' (3 mm - 2 mm on request).

**ADHESIVE:** High temperature and pressure adhesive (STARCELL SpA formulation).

**CORE:** Aluminum Honeycomb Core (cell dim: 10 mm - 12,7 mm - 18 mm).

### TECHNICAL SPECIFICATION

**XILOCELL® LMW-CMP** panel is a sandwich panel manufactured according to the following configurations:

**SKIN:** POPLAR PLYWOOD (3 mm) – OKOUME' PLYWOOD (2 mm or 3 mm).

**CORE:** Aluminum honeycomb (produced directly by STARCELL SpA), honeycomb core produced by STARCELL SpA meets all the International requirements both for material durability and fire resistant/low toxic fumes emission.

**BONDING:** Bonding process is performed using thermosetting adhesives (STARCELL formulation); polymerization is obtained using production systems with automatic control of pressure and temperature parameters.



STARCELL SpA - Sede Legale: Zona Industriale Nerico – 85020 Pescopagano (PZ)

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LMW-CMP Panel

APPLICATIONS: **LMW-CMP** panel is manufactured with standard thicknesses defined according to the plywood material used as skin; for specific productions the panel is supplied in the requested thicknesses starting from 8,5 mm (poplar/okoumè). Typical applications are in 'interiors' market (in particular for furnishing and doors production), but it is also applied as coating material for wall and ceilings; okoumé is widely used in marine applications while poplar is typical for civil applications.

### FEATURES

- Very low total weight and high stiffness.
- Excellent dimensional stability (flatness).
- Constancy of characteristics over time.
- Excellent compression strength (aluminum honeycomb core).
- Excellent 'peeling' strength.
- Easy of processing with normal machine tools for carpenters.
- Operative Temperature Field: -15°C / +70°C.

### DIMENSIONAL CHARACTERISTICS

Dimensions (mm) POPLAR	1.240 x 2.520 (standard)
Dimensions (mm) OKOUME'	1.250 x 2.500 (standard)
DIMENSIONAL TOLERANCES	+/- 1 mm
THICKNESS TOLERANCE	+ /- 0,3 mm
SKINS	POPLAR/OKOUME' (standard thickness: 3 mm)
HONEYCOMB TYPE	Aluminum Alloy: 3003 - 3105 Cell Dim. (mm): 10 (3/8") – 12,7 ( 1/2") Honeycomb Density: 56-40 Kg/m <sup>3</sup>

### MECHANICAL CHARACTERISTICS

Peeling strength (DIN 53295)	>100 Newton (minimum) >80 Newton (after aging cycles)
Max load (UNI EN 14125; Din 53293)	LMW 7010/19 3030 OKU = 1715 N LMW 7010/19 3030 MDF = 1949 N LMW 5012/19 3030 MDF = 1333 N
Bending (UNI EN 14125; Din 53293)	LMW 7010/19 3030 OKU (E= 3290 N/mm <sup>2</sup> ; R= 120 Nm <sup>2</sup> ) LMW 7010/19 3030 MDF (E= 2191 N/mm <sup>2</sup> ; R= 80 Nm <sup>2</sup> ) LMW 5012/19 3030 MDF (E= 2471 N/mm <sup>2</sup> ; R= 90 Nm <sup>2</sup> )

Tests have been performed in Starcell laboratory, considering the high number of variable/parameters they have to be considered only for guidance.



**PRODUCT CODES**

LMW-CMP panel is identified with the following code:

**LMW-CMPP 12/13 3030**

**LMW-CMPO 12/13 3030**

**LMW:** Panel Type.

**CMPP:** Poplar Plywood.

**CMPO:** Okoume' Plywood.

**12:** Cell Dimension (12,7 mm).

**13:** Panel Thickness (mm).

**30:** Outside skin thickness (tenths of mm).

**30:** Inside skin thickness (tenths of mm).

**STORAGE**

The **LMW-CMP** panel is a semi-worked product and therefore subject to further working. It should be stored horizontally with a support along the perimeter; places with high humidity should be avoided.

**SAFETY DATA SHEET**

The product safety details are available in either Italian or English upon request. For further information please go to [www.starcellspa.com](http://www.starcellspa.com).

**LMW-CMP Panel**

*N.B. – The information given is correct to the best of knowledge of Starcell SpA; no guarantee is given in relation to product properties or their applications, Starcell SpA reserves the right to make changes.*

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