



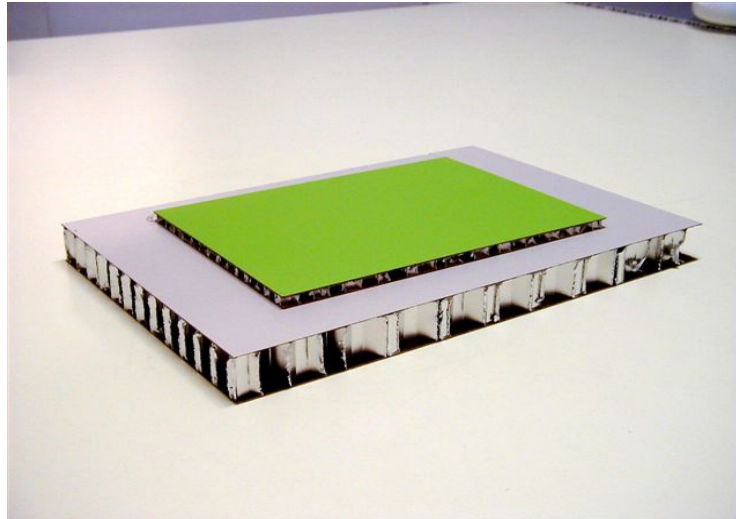
STARCELL S.p.A. - Honeycomb & Composite Panels

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XILOCELL® LM Panel



LM Panel

PANEL THICKNESS: from 4 to 150 mm.

EXTERNAL COATINGS: Decorative High pressure laminate HPL or CPL.

ADHESIVE: Thermoplastic film or polyurethane adhesive system.

CORE: Aluminium honeycomb (cell sizes: 6.35mm; 10mm ;18mm).

Technical Specifications

XILOCELL® LM panel is made with an aluminium honeycomb core manufactured by STARCELL Spa. The **LM** panel has the following distinguishing features: lightweight, a high level of rigidity and flatness, excellent mechanical performance, fire resistance, absence of toxic fumes emissions, dimensional stability over time. This performance permits a widespread use of the **LM** panel in differing markets and application typologies.

The **LM** panel has the following configuration:

- External skins realized with plastic laminates (HPL or CPL) with thickness ranging from 0.7 up to 2 mm for both final decorative surface and to be used for different final surface and machinery.
- Internal core is made by an aluminium honeycomb sheet, manufactured directly by STARCELL Spa in its plants; this honeycomb is manufactured according with the most important international specifications regarding material safety and durability.



- A gluing system based on the use foreseen by the client: two different types of gluing can be used to meet the needs of most applications (thermoplastic or thermosetting, both STARCELL Spa formulations). All panel components are assembled and glued using particular manufacturing processes which can use both 'hot' and 'cold' processes.

XILOCELL® LM Panel can be produced in many different finishing to satisfy needing of interiors design, where **LM** is strongly used in furniture and contract production ; it's also widely used in transport market (ships, trains, yachts) where high stiffness, wide finishing range and low cost are the 'key points'.

Features

- Excellent resistance to bending and to cutting and traction stress.
- Excellent dimensional stability, particularly regarding flatness.
- Excellent resistance to compression loads (honeycomb).
- Excellent ratio between mechanical performance (high) / weight (light).
- Excellent resistance over time to both atmospheric (moisture) and chemical agents.
- Easy to work: Most normal finishing operations can be carried out using conventional manual equipment or any CNC machine provided for wood.
- High interval of operating temperatures (from -40°C to + 70°C).

Physical Characteristics

Wide (mm)*	1220 - 1300
Length (mm)*	2440 - 3050
Dimension tolerances (mm)	+/- 1
Thickness tolerances (mm)	+ /- 0,3
Skins	HPL laminate thickness 0,7 - 2 mm (0,9 std.)
Honeycomb	Aluminium 3003 (60 µ); Cell: 6,35 - 10 - 18 mm; Density: 29 - 55 - 65 Kg/m ³ ;

* *Untrimmed quotes – Others available upon request*

LM Panel



Mechanical Characteristics

Feature	Result	Reference
Peeling strength (N)	Not applicable	DIN 53295
Max load (N)	1.000	UNI EN 14125; DIN 53293
Bending at max load (mm)	4,89	UNI EN 14125; DIN 53293
E modulus (N/mm ²)	13.800	UNI EN 14125; DIN 53293
Rigidity R (Nm ²)	93	UNI EN 14125; DIN 53293

* Tests carried out in internal laboratory. Values referred to LM 7010/15 0909

Product Codes

The **LM** panel code uses the following standard:

LM 6006/20 0909K

LM: Type of panel.

60: Thickness of the aluminium foil used for the honeycomb (micron).

06: Cell size (6,35 mm).

20: Thickness of the panel (mm).

09: Thickness of the lower skin (1/10 mm).

09: Thickness of upper skin (1/10 mm).

Storage

The **LM** panel is a semi-worked product and therefore subject to further working. Should the panels be stored in a warehouse, we suggest to store them horizontally and supported along their perimeter.

Safety Data Sheets

The product safety details are available in either Italian or English upon request. For further information please go to www.starcellspa.com.

N.B. – The information herein is believed to be correct to the best of Starcell S.p.A's knowledge; we do not warrant the accuracy and completeness of the property features and their particular applications. Starcell S.p.A reserves the right to make any modifications.

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