



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

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XILOCELL ® PANEL LMW-MDF



THICKNESSES: 18 - 20 – 25 -30 – 40 -50 mm (standard) - Other on request.

SKINS: MDF (3 mm).

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-MDF’ panel is a sandwich panel manufactured according to the following configurations:

SKIN: MDF (standard thickness: 3 mm - on customer request: 4 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 high temperature and high pressure adhesive (STARCELL formulation); adhesive polymerisation is obtained with automatic control of pressure and temperature.



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

Cap.Soc. € 3.755.960,00 - Isc.N. 1689 Trib.Melfi (PZ) - fasc.67 C.C.I.A.A 75469 -C.F. 07946310153 - P.IVA 01041320761

Pag. 1/3

LMW-MDF Panel

APPLICATIONS: **LMW-MDF** panel is manufactured with standard thickness of 18-20-25-30 and 40 mm, other thicknesses are available on customer requests for specific programs. Typical application is for 'interiors' market, in particular for furnishing and doors production, it is also widely used in many 'contract' 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

WIDTH (mm)	1.550 (MDF)
LENGTH (mm)	3.050 (MDF)
DIMENSIONAL TOLERANCES	+/- 1 mm
THICKNESS TOLERANCE	+ /- 0,3 mm
SKINS	MDF (standard thickness: 3 mm)
HONEYCOMB TYPE	Aluminum Alloy: 3003 - 3105 Cell Dim. (mm): 10 (3/8") – 12,7 (1/2") - 18 (3/4") Density: 54 – 40 - 29 Kg/m ³

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 MDF = 1949 N LMW 5012/19 3030 MDF = 1333 N
Bending (UNI EN 14125; Din 53293)	LMW 7010/19 3030 MDF (E= 2191 N/mm ² ; R= 80 Nm ²) LMW 5012/19 3030 MDF (E= 2471 N/mm ² ; R= 90 Nm ²)

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-MDF panel is identified with the following code:

LMW-MDF 5012/13 3030

LMW: Panel Type.

MDF: Skin Material.

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-MDF 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.

LMW-MDF 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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