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MIXCELL® Laminate - HPL (6,35/15)(0,9-0,9)S(1)

Description of the product

HPL is a sandwich panel with a cosmetic finish, consisting of an aluminium honeycomb core and decorative plastic laminate (HPL) skins. The panel can also be supplied with undecorated laminates. Main fields of application: furniture, lifts, shipbuilding, rail transport, road transport.

Layers

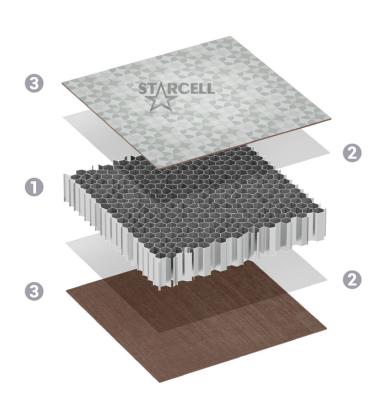
1) INTERNAL CORE aluminium honeycomb (Starcell production) aluminium alloy: 3000 series density: 29 - 40 - 56 - 65 kg/m³

cell diameter:

6.35 - 10 - 12.7 - 19 mm

2) ADHESIVE thermosetting system (Starcell formula)

3) OUTDOOR SKINS laminated decorative plastic (HPL) thickness of the skins: 0.6 - 0.9 - 1.2 - 1.5 - 2.0 mm



Technical sheet of the support panel

PRODUCT ID CODE							
Code structure	Value in this sheet	Meaning					
MIXCELL®		family to which the product belongs					
Laminate		subfamily to which the product belongs					
HPL (n/n)(n-n)		panel type					
HPL (n/)()	6,35/ =	size (mm) of the hexagonal honeycomb cell					
HPL (/n)()	/15 =	panel thickness (mm)					
HPL (/)(n-n)	0,9-0,9	thickness (mm) of the two skins					
S(n)	1=	standard dimensions (mm) - S(1) = 1.000 X 1.000					



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CHARACTERISTICS OF MATERIALS AND COMPONENTS

Front finishing layer

material:	decorative laminate
type:	HPL
standard thicknesses (mm):	0,6 - 0,9 - 1.2 - 1,5 - 2,0
surface appearance:	smooth - coarse - textured
standard adhesive:	thermosetting system (Starcell formula)

Hexagonal cell honeycomb

material:	aluminium foil
type:	3000 series alloy
foil thicknesses (μm):	70
density (kg/m³):	29 - 40 - 56 - 65
standard cell sizes (mm):	6,35 - 10 - 12,7 - 19

Back structural skin

material:	decorative laminate
type:	HPL
standard thicknesses (mm):	0,6 - 0,9 - 1.2 - 1,5 - 2,0
surface appearance:	raw - smooth - coarse - textured
standard adhesive:	thermosetting system (Starcell formula)

PHYSICAL AND DIMENSIONAL CHARACTERISTICS OF THE PANEL

Dimensions

standard (mm):	S(4) = 1.220 X 2.440 - S(11) = 1.300 X 3.050
special (mm):	1.300 - maximum length: 3.050
tolerance (mm):	± 1 (squared panels)

Thicknesses

standard (mm):	6	10	15	20	25	30	50
special (mm):	other thicknesses on request						
tolerance (mm):	± 0,3						

Weights*

weights referred to standard thicknesses (kg/m²):		3,50	3,80	4,00	4,30	4,50	5,70
tolerance (kg/m²):	²): ± 0,2						

^{*}The weights refer to panels with the following characteristics:

cell size (mm): 10

foil thickness (μm): 70

thickness of the skins (mm): 0,9



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MECHANICAL CHARACTERISTICS OF THE PANEL

The characteristics of this sheet refer to the following type of panel:

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Starcell's Technical Department will gladly work with customers to determine the features of other panel configurations

Туре	Standard	Characteristic value						
standard thicknesses	-	6	10	15	20	25	30	50
maximum load* (N):	DIN 53293; EN 14125			700				
deflection at Max* load (mm):	DIN 53293; EN 14125			10,00				
resistance to peeling* (N):	DIN 53295	> 100 (min.) - >80 (after ageing)						
operating temperature (°C):		from -15 °C to +75 °C						

(*) values obtained by Starcell's Internal Laboratory.

CERTIFICATIONS

Туре	Standard	Sector	Class
fire behaviour of the panel	IMO Res. MSC.307(88) - 2010FTP Code	SHIPBUILDING	validation in progress
fire behaviour of the honeycomb	ISO 1182		0

PROPERTIES

- High rigidity combined with a very low overall weight.
- Excellent dimensional stability, also in terms of flatness over time.
- Excellent resistance to shear and bending forces.
- Excellent resistance to peeling.
- Ease of machining with manual or CNC equipment suitable for woodworking.
- Wide operating temperature range.
- Surface particularly suitable for gluing additional finishes (to be applied on non-decorative HPL laminate).

FIELDS OF APPLICATION

Typical applications of the MIXCELL® Laminate - HPL panel are interior design.

STORAGE

The MIXCELL® Laminate - HPL panel is a product in the "semi-finished products" category and therefore is subject to further processing; we recommend storing the panels horizontally in a closed and dry environment, possibly away from heat sources and to support them along their edges.





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SAFETY DATA SHEETS

On request, safety data sheets for this product are available in Italian or English. For more information, please visit: www.starcellspa.com.

Scheda tecnica aggiornata al 20-09-2019

