

RAWCELL® Wood - OKU (10/19)(3,0-3,0)S(6)

Description of the product

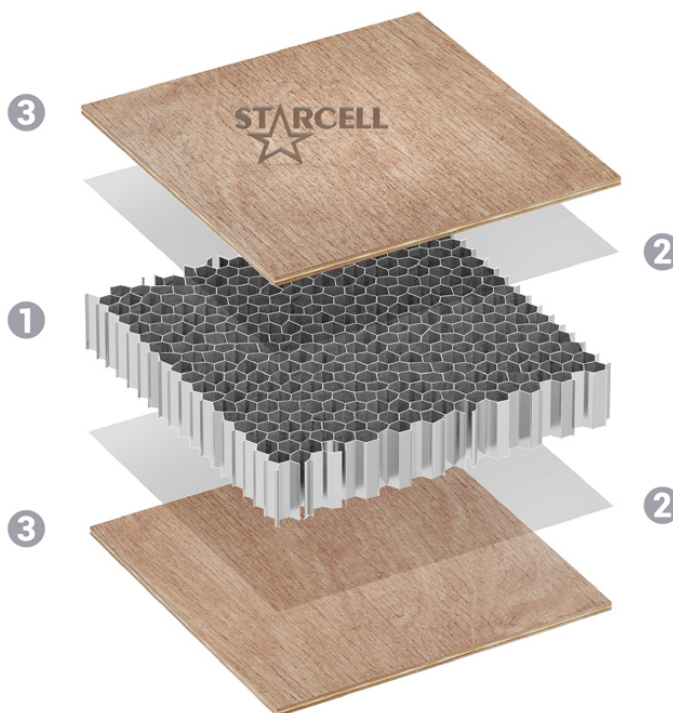
OKU is a sandwich panel without a cosmetic finish, with an aluminium honeycomb core and skins made of an Okoumé plywood sheet. Main fields of application: furniture, shipbuilding, railway, road.

Layers

1) INTERNAL CORE
aluminium honeycomb
(Starcell production)
aluminium alloy: 3000 series
density: 29 - 40 - 56 kg/m³
cell diameter:
10 - 12.7 - 19 mm

2) ADHESIVE
thermosetting
(Starcell formula)

3) EXTERNAL SKIN
Okoumé plywood sheet
skin thickness:
3 mm (standard)
2 mm (on request)



Technical sheet of the panel

PRODUCT ID CODE

Code structure	Value in this sheet	Meaning
RAWCELL®		family to which the product belongs
Wood		subfamily to which the product belongs
OKU (n/n)(n-n)		panel type
OKU (n/)()	10/ =	size (mm) of the hexagonal honeycomb cell
OKU (/n)()	/19 =	panel thickness (mm)
OKU (/)(n-n)	3,0-3,0	thickness (mm) of the two skins
S(n)	6=	standard dimensions (mm) - S(6) = 1.250 X 2.500

CHARACTERISTICS OF MATERIALS AND COMPONENTS

Structural skins

material:	multilayer plywood sheeting
type:	Okoumé
standard thicknesses (mm):	3,0 - (on request: 2)
surface appearance:	natural
standard adhesive:	thermosetting system (Starcell formula)

Hexagonal cell honeycomb

material:	aluminium foil
type:	3000 series alloy
foil thicknesses (µm):	50 - 60 - 70
density (kg/m³):	29 - 40 - 56
standard cell sizes (mm):	10 - 12,7 - 19

PHYSICAL AND DIMENSIONAL CHARACTERISTICS OF THE PANEL

Dimensions

standard (mm):	S(6) = 1.250 X 2.500
special (mm):	1.240 - maximum length: 2.520
tolerance (mm):	± 1 (squared panels)

Thicknesses

standard (mm):	13	19	22	25	30	40	50
special (mm):	other thicknesses on request						
tolerance (mm):	± 0,3						

Weights*

weights referred to standard thicknesses (kg/m²):	4,18	4,50	4,66	4,83	5,10	5,64	6,18
tolerance (kg/m²):	± 0,2						

*The weights refer to panels with the following characteristics:

cell size (mm): 10
foil thickness (µm): 70
thickness of the skins (mm): 3,0

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

Type	Standard	Characteristic value						
standard thicknesses	-	13	19	22	25	30	40	50
maximum load* (N):	DIN 53293; EN 14125		1.715					
deflection at Max* load (mm):	DIN 53293; EN 14125		12,20					
resistance to peeling* (N):	DIN 53295	> 100 (min.) - >80 (after ageing)						
elasticity modulus (E)* (N/mm²):	DIN 53293		3.290					
stiffness modulus (R)* (N/m²):	DIN 53293	120						
operating temperature (°C):		from -15 °C to +75 °C						

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

CERTIFICATIONS

Type	Standard	Sector	Class
fire behaviour of the honeycomb	ISO 1182		M1 F0

PROPERTIES

- High rigidity combined with a very low overall weight.
- Excellent dimensional stability, also in terms of flatness over time.
- Very good compressive strength (due to aluminium honeycomb).
- 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.

FIELDS OF APPLICATION

The RAWCELL® Wood - OKU panel is used in the field of interior fittings, transportation (motor homes) and design (furniture, doors, wings); it is often used as a cladding material (walls, ceilings).

STORAGE

The RAWCELL® Wood - OKU 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.

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.

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