

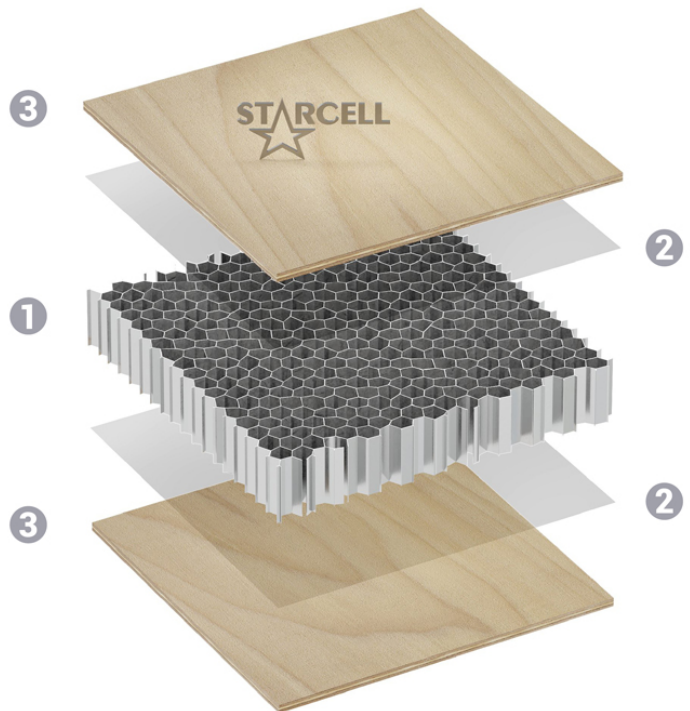
## RAWCELL® Wood - POP (10/19)(3,0-3,0)S(5)

### Description of the product

POP is a sandwich panel without a cosmetic finish, with an aluminium honeycomb core and skins made of a Poplar 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/m<sup>3</sup>  
cell diameter:  
10 - 12.7 - 19 mm
- 2) ADHESIVE  
thermosetting  
(Starcell formula)
- 3) EXTERNAL SKINS  
Poplar 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
POP (n/n)(n-n)		panel type
POP (n/ )( )	10/ =	size (mm) of the hexagonal honeycomb cell
POP ( /n)( )	/19 =	panel thickness (mm)
POP ( / /)(n-n)	3,0-3,0	thickness (mm) of the two skins
S(n)	5=	standard dimensions (mm) - S(5) = 1.240 X 2.520

## CHARACTERISTICS OF MATERIALS AND COMPONENTS

### Structural skins

material:	medium-density wood fibreboard
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/m <sup>3</sup> ):	29 - 40 - 56
standard cell sizes (mm):	10 - 12,7 - 19

## PHYSICAL AND DIMENSIONAL CHARACTERISTICS OF THE PANEL

### Dimensions

standard (mm):	S(5) = 1.240 X 2.520
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/m <sup>2</sup> ):	4,18	4,50	4,66	4,83	5,10	5,64	6,18
tolerance (kg/m <sup>2</sup> ):	± 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:

RAWCELL® Wood - POP (10/19)(3,0-3,0)S(5)

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/mm <sup>2</sup> ):	DIN 53293		3.290					
stiffness modulus (R)* (N/m <sup>2</sup> ):	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 - POP 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 - POP 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](http://www.starcellspa.com).

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