



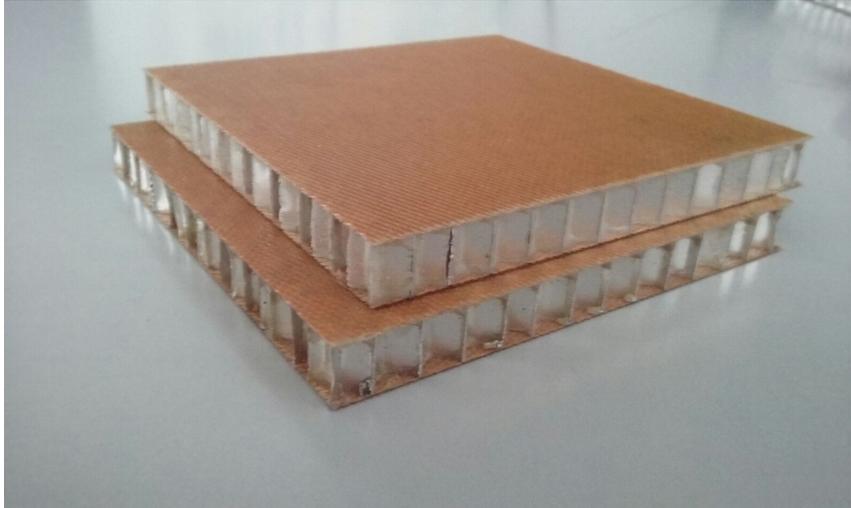
**STARCELL S.p.A. - Honeycomb & Composite Panels**

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## RAWCELL® PGF Panel



RAWCELL® PGF Panel

**PANEL THICKNESS:** from 4 to 100mm.

**EXTERNAL COATINGS:** Fibreglass impregnated with phenolic resin.

**ADHESIVE:** High temperature/Pressure adhesive (MED 96/98 – Starcell formulation).

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

### Technical Specifications

**RAWCELL® PGF** is a really light panel with an aluminium honeycomb core (manufactured by STARCELL SpA ) with fibreglass phenolic surfaces.

This panel is characterized by: extremely low weight ( the lowest in this category ), high mechanical properties, excellent fire resistance, very low fume emission ( for naval and rail market ); the skins are suitable for more finishing machinery, like painting or laminating with other HPL or different skins. PGF panel is configured as follow:

- External skins made with an E-glass 300 gr/sqm woven roving impregnated with phenolic resin .
- Aluminium honeycomb core, made directly by Starcell Spa in its own warehouse, produced according to the International standard requirements.
- Bonding system is based over an adhesive system which satisfy the requirements for the SOLAS IMO MED 96/98 for naval application; it is a STARCELL Spa formulation.



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

**PGF** panel is normally requested for marine applications where certified materials against fire and smoke have to be used; in particular, it is widely requested for internal use in luxury yacht market (furniture, structural bulkheads, stone/marble support) where excellent performances and low weight are always more applied.

### Features

- Fire resistance and low smoke emission.
- Good dimensional stability related to an extremely low weight.
- Good load value due to the honeycomb core.
- Excellent properties vs. weight ratio.
- Good resistance to weather conditions (humidity) and chemical agents.
- Easy machineability (standard machining or CNC system).
- High temperature operative range ( -40 to +70°).

### Physical Characteristics

Wide (mm)*	1.270
Length (mm)*	3.050 (Std.) - 2.550 (on request)
Dimension tolerances (mm)	+/- 1
Thickness tolerances (mm)	+ /- 0,3
Skins	E-glass woving roving 300 gr/sqm phenolic prepreg
Honeycomb	Aluminium 3003 (60 μ); Cell: 6,35 mm Density: 65 Kg/m <sup>3</sup>

\* Untrimmed panel – trimming on request

PGF Panel



## Mechanical Characteristics

Feature	Result	Reference
Fire properties	MED 96/98	Chap.II-2 and X of SOLAS 74 Convention
Peeling (N)	>130 (min) medium 350	DIN 53295
Compression* (Kg/cm <sup>2</sup> )	12	UNI 4913
Max load** (N)	255	UNI EN 14125; DIN 53293
Bending at max load** (mm)	5,70	UNI EN 14125; DIN 53293
E** modulus (N/mm <sup>2</sup> )	35.000	UNI EN 14125; DIN 53293
Rigidity** R (Nm <sup>2</sup> )	8	UNI EN 14125; DIN 53293

\*Tests carried out in Starcell's laboratory. Values referred to PGF 7010/5

\*\*Tests carried out in Starcell's laboratory. Values referred to PGF 6006/8

## Product Code

PGF is identified with the following code:

**PGF 6006/20**

**PGF:** Panel Type.

**60:** Thickness of aluminum foil to be used for honeycomb manufacturing(micron).

**06 :** Cell dimension (6,35 mm).

**20:** Panel thickness (mm).

## Storage

The **PGF** panel is a semi-worked product and therefore subject to further working. Starcell Spa suggest to store the panels horizontally.

## 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](http://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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