



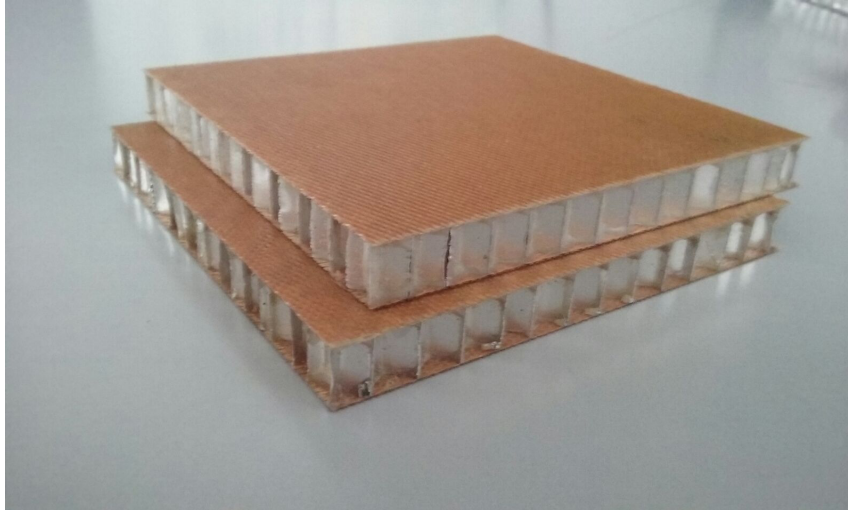
STARCELL S.p.A. - Honeycomb & Composite Panels

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RAWCELL® PGF Panel



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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

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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 ³

* 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 ²)	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 ²)	35.000	UNI EN 14125; DIN 53293
Rigidity** R (Nm ²)	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.

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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