



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

Via Sebenico 22 - 20124 Milano

Tel: +39 026883537 - Fax : +39 0269008152

E Mail: info@starcellspa.com Website: www.starcellspa.com

RAWCELL® PGA Panel



PANEL THICKNESS: from 4 to 80mm.

EXTERNAL COATINGS: Fibreglass impregnated with epoxy resin.

ADHESIVE: thermoplastic film adhesive.

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

Technical Specifications

RAWCELL® PGA is a structural composite panel with an aluminium, manufactured in the following way:

- Face sheets in fibreglass (dry material weight: 490 gr/m² per side) impregnated with epoxy resin (STARCELL formulation).
- Internal core is an aluminium honeycomb manufactured by STARCELL in its manufacturing plants. Honeycomb manufactured by STARCELL is in full compliance with all requisites of the current legislations.
- Gluing by means of a thermoplastic adhesive film (STARCELL formulation); the individual components are assembled and glued using a particular high temperature gluing process followed by a phase of controlled cooling.

PGA panel applications are typically those of stone/marble market where high mechanical performances and low weight are requested; it's used both for internal and external applications (including vertical facades); the product is supplied both in standard and 'customized' dimensions to satisfy all the requests.



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

PGA Panel

Features

- Excellent resistance to cutting and bending stress.
- Excellent dimensional stability, including that regarding flatness.
- Excellent resistance to compression (aluminium honeycomb).
- Highest mechanical performance in relation to considerable panel light weight.
- Excellent resistance to atmospheric agents.
- No interstices in the panel weave in order to guarantee it excellent manoeuvrability using vacuum systems.
- The **PGA** panel has a range of operating temperatures from -40°C to + 80°C.

Physical Characteristic

Width (mm)	1.250 – 1.500 (Std)
Length (mm)	2.150 – 2.550 – 3.050– 4.250 (Std)
Dimension tolerances (mm)	+/- 1
Thickness tolerances (mm)	+ /- 0,3
Skins	E-glass woven roving 490 gr/sqm epoxy prepreg
Honeycomb	Aluminium 3003 (60 µ); Cell: 6,35 mm Density: 65 Kg/m ³

Mechanical Characteristics

Feature	Result	Reference
Fire properties	Class 1	CSE RF 3/77 e CSE RF 2/75 A
Peeling (N)	>130 (min) medium 300	DIN 53295
Compression* (Kg/cm ²)	23	DIN 53295
Max load* (N)	1.390	UNI 4913
Bending at max load* (mm)	6,53	UNI EN 14125; DIN 53293
E modulus* (N/mm ²)	25.900	UNI EN 14125; DIN 53293
Rigidity* R (Nm ²)	88	UNI EN 14125; DIN 53293
Aging	Istituto Giordano	Certificate n°85086

* Tests carried out in internal laboratory. Values referred to PGA 6006/15



Product Code

PGA is identified with the following code:

PGA 6006/20

PGA: Panel Type.

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

06 : Cell dimension (6,35 mm).

20: Panel thickness (mm).

Product Codes

Code	Thickness (mm)	Weight (Kg/m ²)
PGA 6006/05	5	3,06
PGA 6006/07	7	3,19
PGA 6006/10	10	3,38
PGA 6006/13	12,7	3,58
PGA 6006/15	15	3,71
PGA 6006/20	20	4,03
PGA 6006/25	25	4,36
PGA 6006/30	30	4,68

Storage

The **PGA** panel is a semi-worked product and therefore subject to further working. Should the panels be stored in a warehouse, we suggest to store them 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.

StarcellS.p.A reserves the right to make any modification.

Rev.03 - 19_09_2017

