



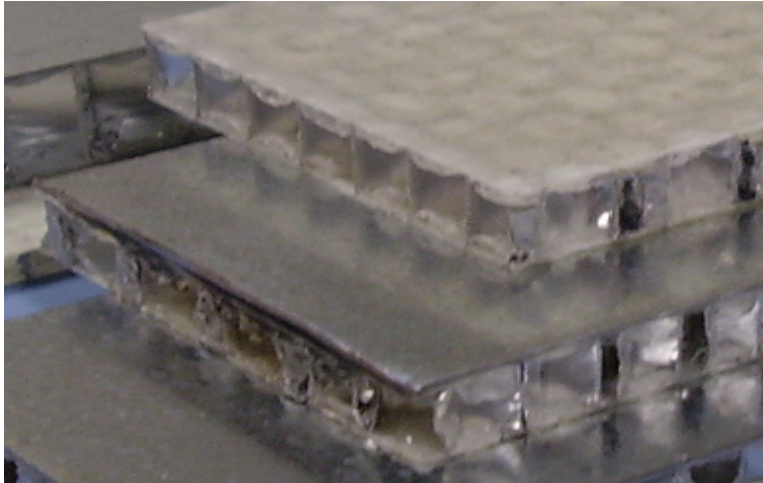
**STARCELL S.p.A. - Honeycomb & Composite Panels**

Via Sebenico 22 - 20124 Milano

Tel: +39 026883537 - Fax : +39 0269008152

E Mail: [info@starcellspa.com](mailto:info@starcellspa.com) Website: [www.starcellspa.com](http://www.starcellspa.com)

## RAWCELL® PGAL+LZ Panel



PGAL+LZ Panel

PANEL THICKNESS: 5 – 10 – 15 – 20 mm + thickness of the zinc-coated sheet (0,35 – 0,5 mm ).

EXTERNAL COATINGS: Fibreglass impregnated with epoxy resin. Reinforced one side with a zinc-coated sheet.

ADHESIVE: Thermoplastic film adhesive.

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

### Technical Specifications

**RAWCELL® PGAL+LZ** is a structural composite panel with an aluminium, born specifically for the lightweight marble and granite market with the following configuration:

- Face sheets in fibreglass (dry material weight: 300 gr/m<sup>2</sup> per side) impregnated by STARCELL Spa with its own formulation of self-extinguishing epoxy resin.
- Additional one-sided zinc-coated sheet both to increase mechanical properties of the panel itself and to give a valid fixing of the wall main frame structure.
- Bonding process is based over a high temperature and pressure adhesive with cooling control (STARCELL Spa formula).



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

APPLICATIONS: The unique assembling process with an additional zinc-coated sheet gives very high properties to this panel and also really strong resistance and an easier fixing system; it is particularly indicated in external civil applications (vertical facades) where marble or ceramic have been selected.

### Features

- Excellent resistance to cutting and bending stress.
- Excellent dimensional stability, including flatness.
- Excellent resistance to compression ( aluminium honeycomb).
- Highest mechanical performance in relation to considerable panel light weight.
- Excellent resistance to atmospheric agents.
- Extremely easier installation compared to standard methods, with a high volume/day.
- The PGAL+LZ panel has a range of operating temperatures from -40°C to + 70°C.

### Physical Characteristics

Wide (mm)*	1.220 / 1.460 (Std)
Length (mm)*	2.100 / 3.000 /4.200 (Std)
Dimension tolerances (mm)	+/- 1
Thickness tolerances (mm)	+ /- 0,3
Skins	E-glass woven roving 300 gr/sqm epoxy prepreg
Honeycomb	Aluminum 3003 (60 µ) Cell 6,35 mm. Density: 65 Kg/m3
Additional sheet	Zinc-coated steel "Aluzinc" against corrosion

NOTE: 1.220 wide uses a 0,35mm zinc-coated steel sheet, while for 1.460mm wide, the sheet used is 0,5mm thickness.

### Mechanical Characteristics

Feature	Result	Notes
Peeling strength (N)	288	DIN 53295
Compression strength (Kg/mm <sup>2</sup> )	1.84	UNI 4913
Max load (N)	607	UNI EN 14125; DIN 53293
Bending at max load (mm)	10,4	UNI EN 14125; DIN 53293
E modulus (N/mm <sup>2</sup> )	5.300	UNI EN 14125; DIN 53293
Rigidity R (Nm <sup>2</sup> )	13	UNI EN 14125; DIN 53293

\* Tests carried out in internal laboratory. Values referred to PGAL 6006/13+Zn0.5



## Product codes

The **PGAL+LZ** panel code uses the following standard:

**PGAL06/05 + LZ0,35**

**PGAL+LZ:** Type of panel (**PGAL panel + LZ skin**)

06: Cell size (6,35 mm)

05: Thickness of the panel (mm)

035: Thickness of the rear LZ skin ( 0,35 mm)

## Storage

The **PGAL+LZ** 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 and supported along their perimeter.

## 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).

**PGAL+LZ Panel**

*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.*

**Rev. 3 - 19\_09\_2017**

