larcore®
by Alucoil®

Aluminium Honeycomb Panels for Architectural Wall Cladding

Alucoil®
Australia

larcore®
by Alucoil®

1. Protective film
2. **Aluminium**
3. Bonding layer
4. **Aluminium Honeycomb Core**
3. Bonding layer
5. **Aluminium**
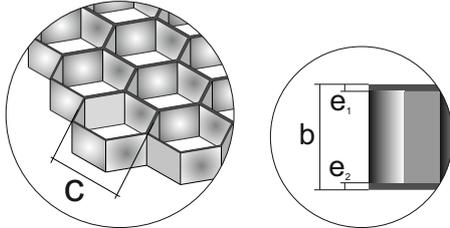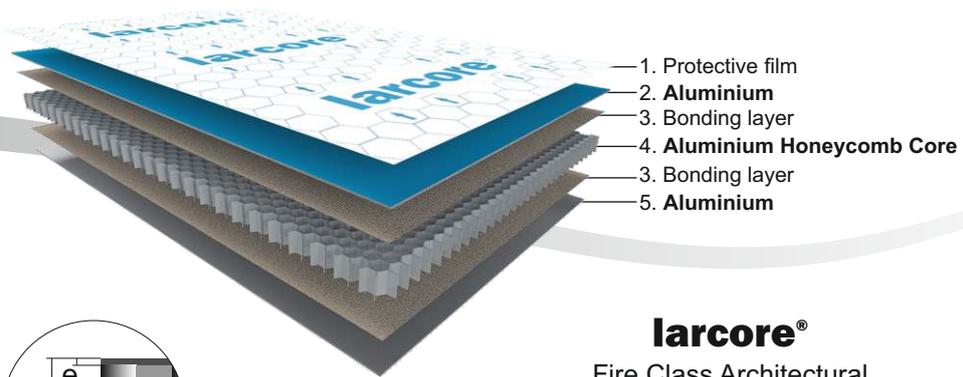
larcore®
Fire Class Architectural
NON-COMBUSTIBLE - AS 1530.1

Composition

Through a proprietary continuous manufacturing process, **Alucoil®** manufactures its structural aluminum honeycomb panel **larcore®** to fit perfectly in numerous sectors such as architectural, marine, railway and industrial applications. It is an extremely lightweight and rigid panel which is fire proof, non-toxic, recyclable, insulating, and energy efficient.

Achieved through an intensive R&D development, **larcore®** is the perfect panel for large modulation projects with a restricted supports number due to specific structural conditions. All these **larcore®** features are completed by the possibility of choosing among an infinite range of finishes.

Panel features

Total thickness "b"	6 [mm]
Metal thickness "e_1"	0,7 [mm]
Metal thickness "e_2"	0,5 [mm]
Alloy	5005 EN 573-3
Panel weight	4,19 [kg/m^2]
Moment of inertia "I"	0,85[(*)] [cm^4/m]
Rigidity "EI"	5967[(*)] [kNcm^2/m]
Section modulus "W"	2,53[(*)] [cm^3/m]

Sound reduction "R_w"	18,85[(**)] [dB]
Acoustic isolation "R_A"	19,54[(**)] [dBA]
Thermal resistance "R"	0,0067[(**)] [m^{2}K/W]
Standard width	1000-1250-1500-2000 [mm]
Min / max length	2000/14000 [mm]
Cell size "C"	1/4" / 6,35mm
Thickness foil	50 [μ]

(*) Estimated or theorical value measured in the transversal axis while lab results arrive
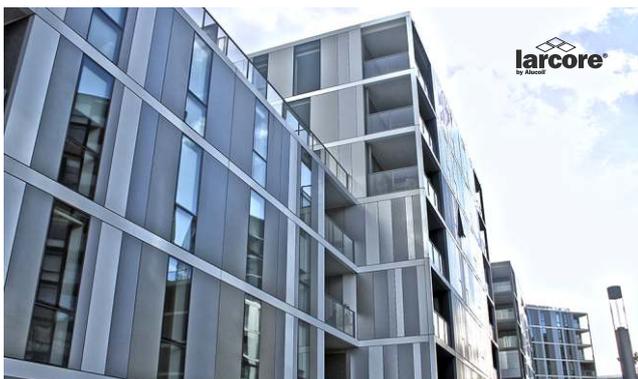(**) Estimated or theorical value while lab results arrive

Core characteristics

Aluminium alloy	3003 EN 573-3
Compression resistance	2,20 [MPa]
Core density	56 [kg/m^3]
Protective primer	OK

Finishes

Coated surface

a) PVdF 70% kynar 500 2 layers with **PRIMER COASTAL** 31μ
b) PVdF 70% kynar 500 3 layers 37μ

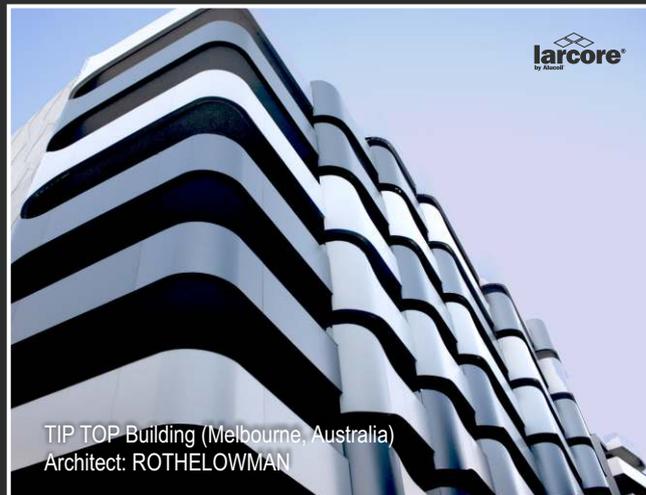- Extended technical data sheet under request -

Toorak Park (Armadale, Australia)
Architect: Denton Corker Marshall

larcore® for use on outdoor façades must be installed with the **HideTech® Plus** system certified with ETE / ETA (double edging and perimeter riveting) or with system for watertight panel solution.
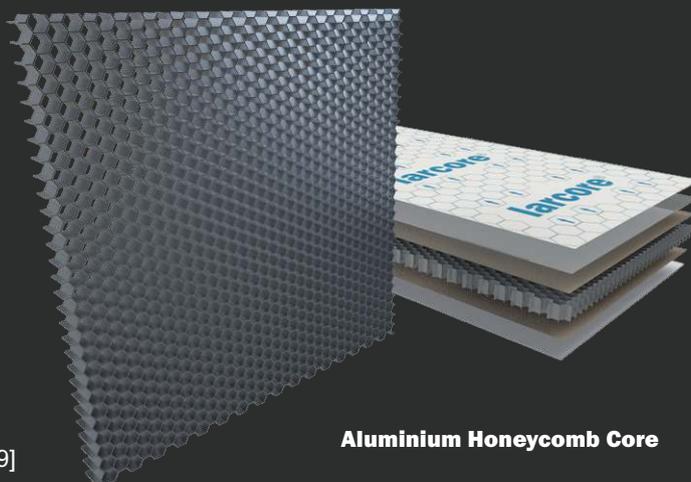

TIP TOP Building (Melbourne, Australia)
Architect: ROTHELOWMAN

BBVA BANK Headquarters (Madrid, Spain)
Architect: Herzog & de Meuron
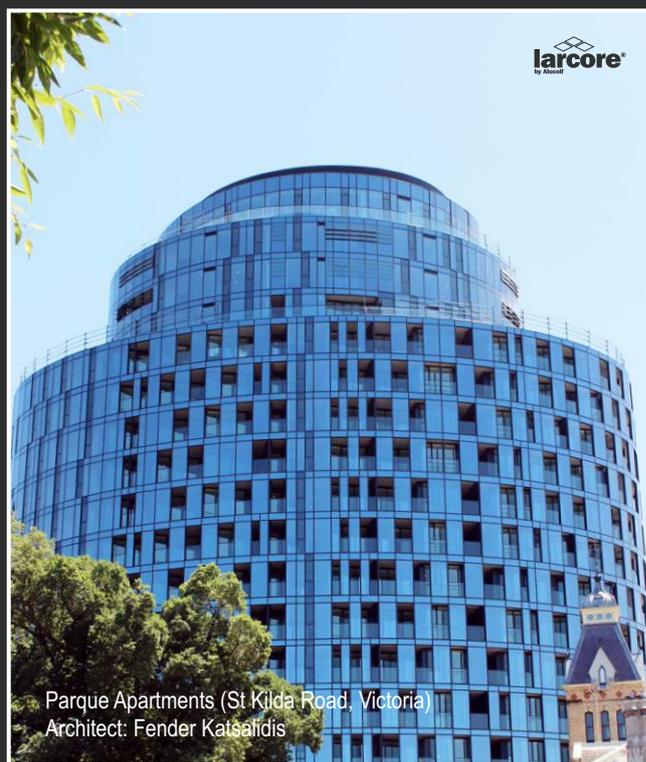
Parque Apartments (St Kilda Road, Victoria)
Architect: Fender Katsalidis

CODEMARK™
CM40198
CertMark International

Aluminium Honeycomb Core

Fire class architectural

AUSTRALIA NON-COMBUSTIBLE [AS/NZS 1530.1-1999]
EUROPE [EN 13501-1:2007] **A2-s1,d0**
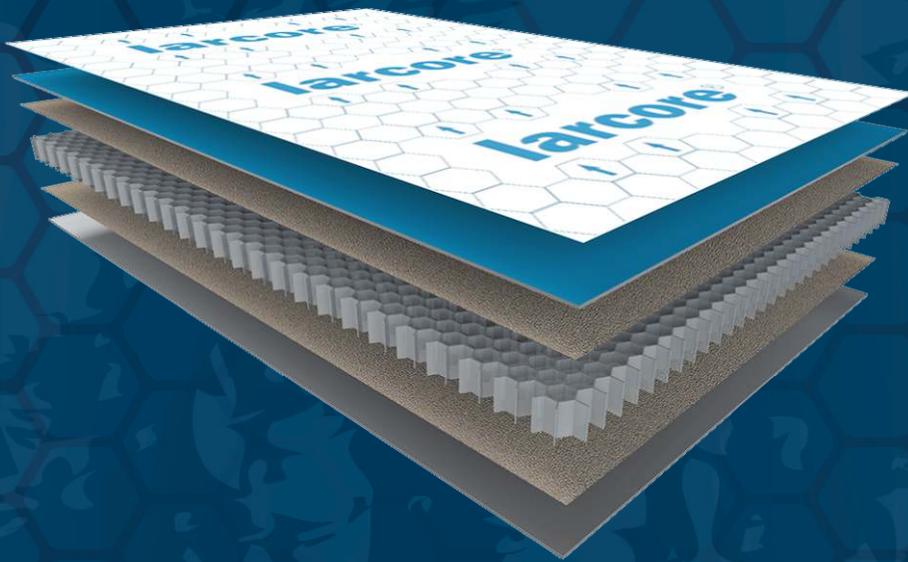**FRANCE** [NF P 92501] **M0 -** [NF F 16-101] **F1**
CANADA ULC S135
USA [ASTM E84] Flame-Spread Index: 0 - Smoke-Developed Index:0

HideTech® & **HideTech® PLUS** system developed by **Alucoil®** is the perfect complement for all kind of projects, providing every element required for an installation with **Alucoil®** guarantee and supporting specific loads and requirements for each case.

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