

**larson**<sup>®</sup>  
by Alucoil<sup>®</sup>

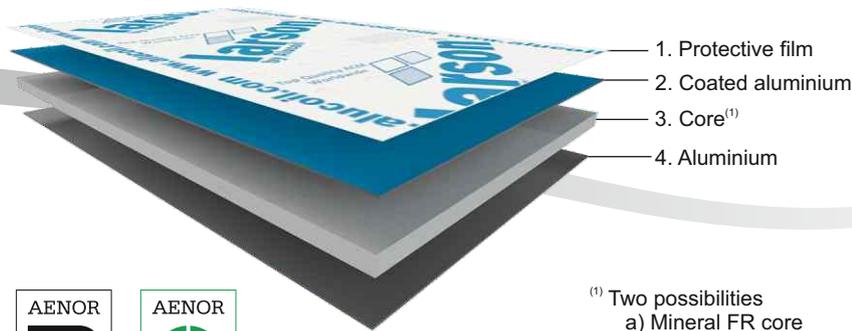
Aluminium Composite Panels  
for Architectural Wall Cladding



Top Quality ACM - Worldwide



**Alucoil**<sup>®</sup>  
Grupo Alibérico



- <sup>(1)</sup> Two possibilities
- a) Mineral FR core  
(**larson® FR** Fire Class Architectural B-s1,d0 according EN 13501-1)<sup>(2)</sup>
  - b) Polyethylene core  
(product for exclusive use in low buildings, canopies, signalization and corporate identity)

## Aluminium composite panels for architectural wall cladding

**larson® FR** aluminium composite panel, is a high-tech product for architectural façade cladding. It is formed by two aluminium sheets, 5005 alloy, bonded by a mineral fire retardant (FR) core. Thanks to internal developments of our R + D department in Miranda de Ebro, Spain, **Alucoil®** has matured a core that delays panel combustion which allows this material to achieve B-s1,d0<sup>(2)</sup> classification, according to UNE-EN 13501-1 standard.

**Alucoil®** also manufactures **larson® PE** composite panel, formed, as well, by two aluminium sheets 5005 alloy but bonded by a thermoplastic resin core (polyethylene PE). This product is meant to be used only in low buildings, canopies, signalization and corporate identity. (**Alucoil®** does not recommend the use of this product in high rise building, limited by specific standards in each country).

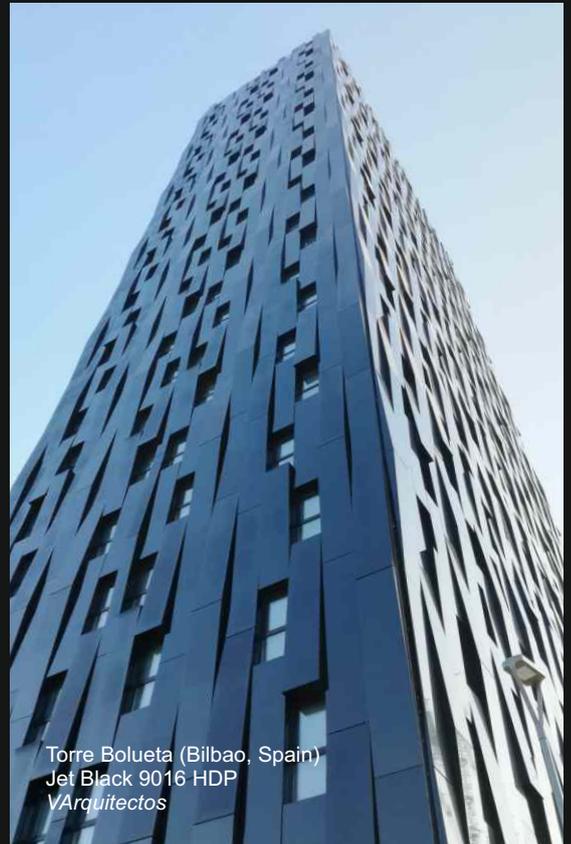
**larson®**, doubles that of the industry standard parameters for any ACM product. It can be easily machined, transformed, drilled, perforated or curved. Its strength by design does not however limit its breadth of design capabilities. For this reason, it has the widest range of coated finishes in the market from the highest quality in liquid PVdF 70% Kynar 500 2 layers with **COASTAL PRIMER** 31µ or 3 layers 37µ.

<b>larson® FR</b>	Aluminium composite panel features	<b>larson® PE</b>
3 / 4 / 6 [mm]	Panel thickness	3 / 4 / 6 [mm]
6,14 / 7,78 / 11,06 [kg/m <sup>2</sup> ]	Panel weight	4,66 / 5,56 / 7,36 [kg/m <sup>2</sup> ]
0,5 [mm]	Aluminium thickness	0,5 [mm]
1583 / 3070 / 8630 [mm <sup>4</sup> /m]	Moment of inertia "I"	1346 / 2637 / 6446 [mm <sup>4</sup> /m]
1108 / 2150 / 6041 [kNcm <sup>2</sup> /m]	Rigidity "EI"	942 / 1846 / 4512 [kNcm <sup>2</sup> /m]
1000 - 1250 - 1500 [mm]	Standard width	1000 - 1250 - 1500 [mm]
2000 - 8000 [mm]	Min / max length	2000 - 8000 [mm]
<b>MINERAL FIRE RESISTANT</b>	<b>Core</b>	<b>POLYETHYLENE</b>
B-s1,d0 <sup>(2)</sup> [EN 13501-1]	Reaction to fire test	<b>M1</b> [UNE 23717 - NF P92-501] <b>CLASS E</b> [EN 13501-1] <b>CLASS 0</b> [BS 476-6 & BS 476-7]
70000 <sup>(1)</sup> [N/mm <sup>2</sup> ]	Modulus of elasticity <sup>(1)</sup> "E"	70000 <sup>(1)</sup> [N/mm <sup>2</sup> ]
125 <sup>(1)</sup> [N/mm <sup>2</sup> ]	Ultimate tensile strength <sup>(1)</sup> "R <sub>m</sub> "	125 <sup>(1)</sup> [N/mm <sup>2</sup> ]
80 <sup>(1)</sup> [N/mm <sup>2</sup> ]	Elasticity limi <sup>(1)</sup> "R <sub>p0,2</sub> "	80 <sup>(1)</sup> [N/mm <sup>2</sup> ]
4 <sup>(1)</sup> [%]	Elongation <sup>(1)</sup> "%"	4 <sup>(1)</sup> [%]
5005	Aluminium alloy	5005
2,3 mm/m Δ100°C	Aluminium thermal expansion	2,3 mm/m Δ100°C
a) PVdF 70% kynar 500 2 layers with <b>COASTAL PRIMER</b> 31µ b) PVdF 70% kynar 500 3 layers 37µ	Coated surface	a) PVdF 70% kynar 500 2 layers with <b>COASTAL PRIMER</b> 31µ b) PVdF 70% kynar 500 3 layers 37µ

<sup>(1)</sup> Aluminium features - Extended technical data sheet under request -  
<sup>(2)</sup> Alucoil's vertical riveted & 45mm cassette installation systems



Marriott Hotel (Portsmouth, UK)  
Anthracite Grey 7016 - Pearl Beige 1035  
Satellite Architects



Torre Bolueta (Bilbao, Spain)  
Jet Black 9016 HDP  
VArquitectos



Erasmus Campus Student Housing (Rotterdam, Holland)  
Holo Gold Silver - Silk Grey 7044  
Mecanoo Architects



Infinity building, La Docouverte (St. Malo, France)  
Holo Gold Silver - Brilliant & Grey Metallic  
Meignan Angasser Peraud Architects

# larson®

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## Installation systems & certifications

**Alucoil®** offers several installation systems for composite panels recognized under the CE marking, being the first company in the world to obtain that designation. Additionally, **Alucoil®** has several certifications worldwide such as ETA (European Technical Assessment – valid in 34 countries), EPD (Environmental Product Declaration), DIT, Avis Technique, LNEC, BBA, DIBt, VKF, Intertek North America.

**European Technical Assessment**  
ETA 14/0010 - **Alucoil® Suspended Cassette & Alucoil® Riveted Boards**

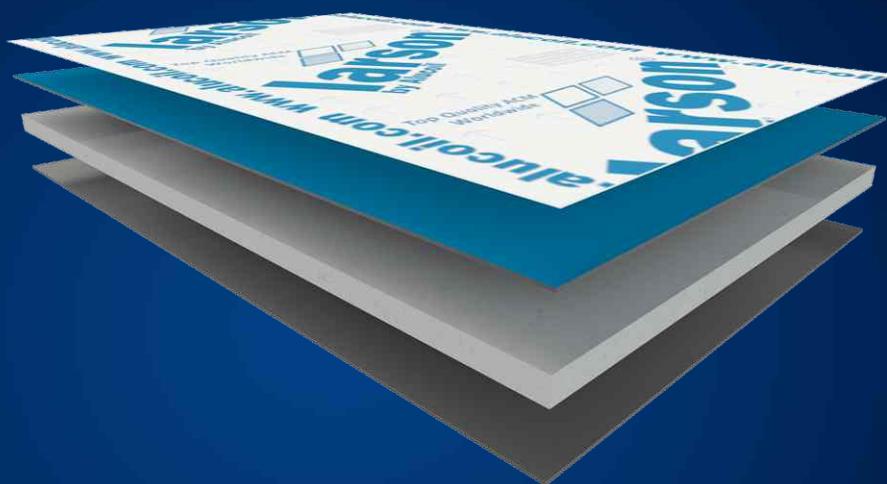


[www.AlucoilDesign.com](http://www.AlucoilDesign.com)



**BIM Objects**  
Revit & Archicad

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by Alucoil<sup>®</sup>



**[www.alucoil.com](http://www.alucoil.com)**

Polígono Industrial de Bayas  
C/ Ircio. Parcelas R72-77  
09200 Miranda de Ebro, Burgos

**SPAIN**

Tel.: +34 947 333 320 Fax: +34 947 324 913  
[info@alucoil.com](mailto:info@alucoil.com)

  
**Alucoil**<sup>®</sup>  
Grupo Alibérico