

CERTIFICATE OF CONFORMITY

Issue: 01

Certificate number: ESL-25-11830

Pursuant to provisions of the Certification scheme on Global Conformity Certification of fire and life safety products (CS-GCC, scheme type 5), Emirates Safety Laboratory hereby grants this certificate of conformity to the product described below:

Aluminium Composite Panel, Alstrong A2

Placed on the market under the name or trade mark of:

Aesthetic Metal Insulation Panels Manufacturing LLC
P.O. Box: 18984, Plot No. 61
Saih Shuaib (532-125), Dubai Industrial City
Dubai, United Arab Emirates (UAE)

Manufactured in the following location(s):

Aesthetic Metal Insulation Panels Manufacturing LLC
P.O. Box: 18984, Plot No. 61
Saih Shuaib (532-125), Dubai Industrial City
Dubai, United Arab Emirates (UAE)

Complies with the requirements of the standard(s) as detailed below:

EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests.
ASTM D1929 - 23 Standard Test Method for Determining Ignition Temperature of Plastics

The certificate was first issued on **19 May 2025** and remains valid under the condition that the Certificate Holder fulfils the requirements of the agreement on certification supervision no. **0426/SA/25**.



Tomasz Kielbasa
Certification Manager

19 May 2025
Date of issue

18 May 2028
Expiry date

This Certificate remains valid till date stated above, unless suspended, withdrawn or terminated. This certificate will not be valid if the manufacturer makes any changes affecting product conformity, which have not been notified to, and agreed in writing with ESL. This Certificate is an electronic document and shall not be reproduced (in any form) except in full. Certificate holder is under an obligation to make references to issued certificate only in conjunction with product(s) that conform to evaluated product construction. Prior to use of this certificate, please verify its validity at ESL.directory

Emirates Safety Laboratory (ESL)
240 Al Awir Road, Warsan 3, Mushraif, Dubai, United Arab Emirates
T: +971 4 520 1800, E: ask@eslglobal.com



Appendix to Certificate of Conformity

No: **ESL-25-11830**

Issue: **01**

CERTIFIED PRODUCT:

Product Description:

Alstrong A2 is an aluminium composite material comprised of mineral-filled fire retardant core sandwiched between two layers of the coated aluminium coil (top & bottom) by bonding through heating and cooling processes with an adhesive film.

Reaction to fire classification, Flash ignition temperature (FIT) and Self-ignition temperature (SIT):

Product description	Test standards	Classification / Test Result
Aluminium Composite Panel, Alstrong A2 & Mineral-filled fire-retardant Core of Aluminium Composite Panel, Alstrong A2 <u>Panel thickness:</u> 4 ± 0.2 mm <u>Panel weight per unit area:</u> 8.3 ± 5 kg/m² <u>Core thickness:</u> 3 ± 0.02 mm <u>Core density:</u> 1,700 to 1,850 kg/m³	EN 13501-1 :2018	Reaction to fire classification of panel and core: A2 -s1,d0
	ASTM D1929 - 23	<u>4 mm panel</u> Flash ignition temperature (FIT): 480 °C Self-ignition temperature (SIT): 486 °C
		<u>3 mm core</u> Flash ignition temperature (FIT): 483 °C Self-ignition temperature (SIT): 501 °C

Note 1: The self-ignition temperature (SIT) of the Aluminium Composite Panel, Alstrong A2 & Mineral-filled fire-retardant Core of Aluminium Composite Panel, Alstrong A2 meet the UAE Fire and Life Safety Code of Practice (2018) requirement.




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No: **ESL-25-11830**

Issue: **01**

Product Components Details (Alstrong A2):

S.No.	Component name	Description of components
1	Topcoat	Generic type: Polyvinylidene fluoride (PVDF)
		Manufacturer: <i>Held on ESL file</i>
		Colour variation: Any variation allowed
		Application thickness: 17 to 23 microns
2	Primer	Generic type: PU primer
		Manufacturer: <i>Held on ESL file</i>
		Colour variation for primer: White/Yellow
		Application thickness: 6 to 10 microns
3	Aluminium	Generic type: Mill finish aluminium coil (AA 3003-H16)
		Thickness: 0.5 ± 0.05 mm
		Density: 2,710 kg/m ³
4	Adhesive	Generic type: Polymer based adhesive film
		Manufacturer: <i>Held on ESL file</i>
		Thickness: 60 microns
5	Core	Generic type: Mineral filled fire-retardant core
		Manufacturer: <i>Held on ESL file</i>
		Thickness: 3 ± 0.02 mm
		Density: 1,700 to 1,850 kg/m ³
6	Adhesive	Generic type: Polymer based adhesive film
		Manufacturer: <i>Held on ESL file</i>
		Thickness: 60 microns
7	Aluminium	Generic type: Mill finish aluminium coil (AA 3003-H16)
		Thickness: 0.5 ± 0.05 mm
		Density: 2,710 kg/m ³
8	Service coat	Generic type: Polyester (PE)
		Manufacturer: <i>Held on ESL file</i>
		Application thickness 10 microns

Limitations:

- Variation in the thickness of the aluminium composite material is not allowed.
- This certificate covers the product's performance limited to the reaction to fire classification and does not cover any weather performance, fire-resistance characteristics and large-scale fire-propagation characteristics performance.




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