

CERTIFICATE OF CONFORMITY

Issue: 02

Certificate number: ESL-25-11831

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 in External Wall System / Assembly
(ESL system designation: FACN-0328-11831)

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:

NFPA 285 – 2025 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components

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. **0427/SA/25**.



Tomasz Kielbasa
Certification Manager

29 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This Certificate remains valid till date stated above, unless suspended, withdrawn or terminated.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-25-11831**

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CERTIFIED PRODUCT:

Product / System Description:

Aluminium Composite Panel, Alstrong A2 in External Wall System/Assembly is a non-loadbearing external wall system/assembly comprised of tray profile 4 mm thick aluminium composite panel, Alstrong A2 installed on aluminium profiles on the base wall (substrate). Mineral wool insulation is installed on the exterior face of the base wall (substrate). Cavity barriers are installed vertically & horizontally between the base wall (substrate) and the inner face of the aluminium composite panel. The ACP panel joints are filled with aluminium U-channel and sealant to close the gaps.

Aluminium Composite Panel, Alstrong A2 in External Wall System / Assembly fire propagation performance evaluation summary:

System Description	Test Standards	Test Result
Aluminium Composite Panel, Alstrong A2 in External Wall System / Assembly <u>Alstrong A2 details</u> <u>Panel thickness:</u> 4 ± 0.2 mm <u>Panel weight per unit area:</u> 8.3 ± 0.5 kg/m² <u>Top coil:</u> Mill finish aluminium coil (AA 3003-H16) with PVDF topcoat & PU primer. Coil thickness: 0.5 ± 0.05 mm Coating thickness: 23 to 33 microns <u>Bottom Coil:</u> Mill finish aluminium coil (AA 3003-H16) with PE Coating Coil thickness: 0.5 ± 0.05 mm Maximum coating thickness: 10 microns <u>Adhesive:</u> 60 microns polymer-based adhesive film <u>Core:</u> Thickness: 3 ± 0.02 mm Density: 1,700 to 1,850 kg/m³	NFPA 285 - 2025	Pass




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No: **ESL-25-11831**Issue: **02**Detailed specification of the components used in the external façade wall assembly/system:**Design no (reference drawings by manufacturer): ALSTRONG-SD01, ALSTRONG-SD02, ALSTRONG-SD03, ALSTRONG-SD04, ALSTRONG-SD05 & ALSTRONG-SD04.**

- a. Exterior cladding:
Tray profile 4 mm thick aluminium composite panel, Alstrong A2, shall be fixed onto the vertical profile using aluminium cleats and $\varnothing 2.5 \times 25$ mm pan head self drilling screws. The maximum gaps allowed for the panel to panel joints are 20 mm; the joint shall be fitted with a 10 mm $\times$ 10 mm $\times$ 1.5 mm (web x flange x thickness) aluminium U channel (AW 6063 T6) using self-drilling screws, and Everbuild fire sealant 400 shall be applied over the U channel at a total nominal depth of 6 mm.
The maximum permitted air cavity between the cavity insulation's exterior face and the panel's interior face is 196 mm.
- b. Fixing components:
1. Wall brackets
Mild steel brackets shall be anchored onto the base wall (substrate) using a $\varnothing 6 \times 38$ mm self-drilling screws with washers.
• 215 mm $\times$ 75 mm $\times$ 95 mm $\times$ 4 mm (leg x leg x width x thickness).
2. Vertical runner
Aluminium (Alloy 6063 T6) profiles shall be fixed into wall bracket using $\varnothing 8 \times 25$ mm stainless steel hex head bolts.
• 40 mm $\times$ 40 mm $\times$ 3 mm (leg x leg x thickness).
3. Panel holding cleat
Aluminium (Alloy 6063) cleats shall be fixed on flanges of tray profile aluminium composite panel using $\varnothing 4 \times 14$ mm aluminium blind rivets.
• 20 mm $\times$ 20 mm $\times$ 70 mm $\times$ 1.5 mm (leg x leg x width x thickness).
- c. Cavity insulation:
A single layer of 50mm thick stone wool insulation with a density of 50 kg/m³ (ref. Façade 250) shall be installed on the exterior of the base wall (substrate) except for the locations of the cavity fire barriers using $\varnothing 8 \times 90$ mm G.I Steel insulation pins.
Products manufacturer: Saudi Rockwool Factory
- d. Cavity barrier (Vertical & Horizontal):
Cavity fire barriers (ref. CH-CB barrier manufactured from CW-FS120) with 120 mm $\times$ 75 kg/m³ (thickness x density) shall be installed at every floor termination, and along the full height of the specimen at each vertical edge of the window opening using B195 fixing brackets. The fixing brackets shall be fixed to the base wall (substrate) using size $\varnothing 4.2 \times 32$ mm metal self-drilling screws and metal plugs.
Products manufacturer: Siderise Insulation Ltd
- e. Window flashing:
4 mm thick Alstrong A2 aluminium composite panel shall be fixed along the window opening using $\varnothing 4.2 \times 32$ mm self-drilling screws.
- f. Base wall:
15.9 mm thick Type X (GW-TX) gypsum board material (interior & exterior) installed on a galvanised steel framing consisting of 92 x 32 x 1.2 mm (web x flange x thickness) studs and 95 x 25 x 1.2 mm (web x flange x thickness) tracks.


Signed for ESLTomasz Kielbasa
Certification Manager29 May 2025
Date of issue18 May 2028
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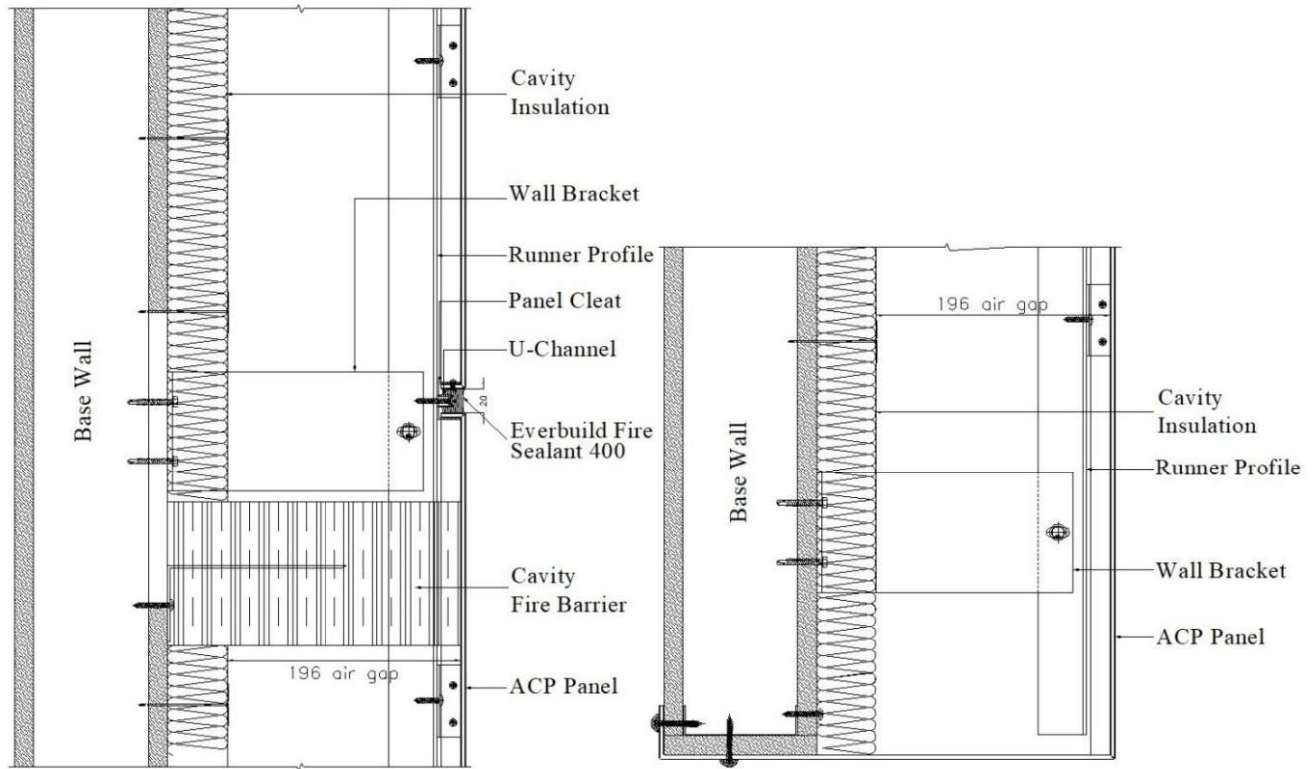
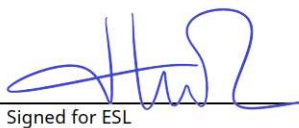
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Fig 1: Vertical section – fixing details & window details

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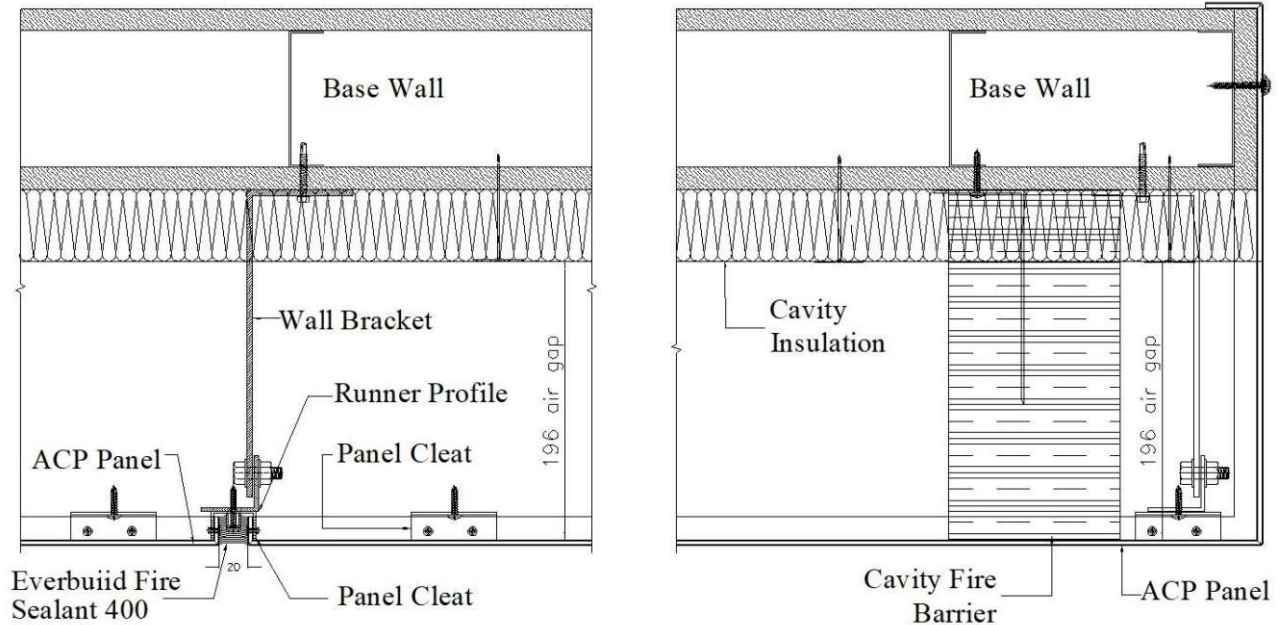
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Fig 2: Horizontal section - fixing details & window details

Notes:

1. The system/assembly, tested on a non-loadbearing steel base wall, is permitted for installation on concrete walls or concrete masonry unit (CMU) walls.

Limitation of use:

1. This certification covers the fire propagation performance of external wall assembly/systems with the above-mentioned component specifications.
2. This certification does not cover the fire resistance performance of the exterior wall assembly.
3. Actual system/assembly construction shall conform to the certified design of the system/assembly.
4. System/Assembly testing and certification in compliance with NFPA 285 - 2025 does not evaluate the performance of individual components (e.g., thermal insulation, cavity fire barriers, etc.) incorporated within the system/assembly.




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