

CERTIFICATE OF CONFORMITY

Certificate number: **ESL-25-11883**Issue: **01**

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:

Exterior Wall Cladding System with ALUCOPANEL® A2, 4 mm thick Aluminium Composite Panel
(ESL system designation: FSAN-0352-11883)

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

ALUCOPANEL MIDDLE EAST LLC
Plot No. TP010105 B, National Industries Park
Dubai, United Arab Emirates

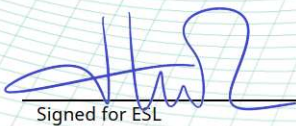
Manufactured in the following location(s):

ALUCOPANEL MIDDLE EAST LLC
Plot No. TP010105 B, National Industries Park
Dubai, United Arab Emirates

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 **11 July 2025** and remains valid under the condition that the Certificate Holder fulfils the requirements of the agreement on certification supervision no. **0476/SA/25**.


Signed for ESLTomasz Kielbasa
Certification Manager11 July 2025
Date of issue10 July 2028
Expiry date

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CERTIFIED PRODUCT:

Product / System Description:

Exterior Wall Cladding System with ALUCOPANEL® A2, 4 mm thick Aluminium Composite Panel is a non-loadbearing external façade wall system/assembly design with a maximum 996 mm cavity (insulation plus air gap), where the ACP is fabricated to form a tray-type panel fixed into the aluminium runners, which is bolted to an extended galvanized iron wall bracketing. Mineral wool insulation slabs are installed onto the base wall (substrate) using a GI insulation pin. Cavity barriers are installed vertically & horizontally between the base wall and ACP's inner face where the mineral wool insulation slab is interrupted perpendicularly. The window header, jambs & sill are closed with the return bend of the same ACP panels. The ACP panel joints are infilled with silicone sealant applied over the initially inserted aluminium U-channel to close the gaps.

System testing according to NFPA 285 – 2025 edition:

- NFPA 285 standard provides a test method for determining the fire propagation characteristics (on post-flashover fires of interior origin) of exterior wall assemblies and panels used as components of curtain wall assemblies that are constructed using combustible material or that incorporate combustible components.
- Overall test result: **PASSED**

Test Performance Evaluation Summary Table			
No.	Tested Requirements	Test Observation	Pass / Fail
1	Flame propagation: Exterior face of the test specimen Flames emitting from the surface of the exterior face of the test specimen shall not reach a height of 10 ft or greater above the top of the window opening.	Flames did not reach 10 ft above the window opening.	Pass
2	Flame propagation: Exterior face of the test specimen Flames emitting from the surface of the exterior face of the test specimen shall not reach a horizontal distance of 5 ft or greater from the vertical centerline of the window opening.	Flames did not reach a lateral distance of 5 ft from the vertical centerline.	Pass
3	Flame propagation to adjacent horizontal spaces Flames shall not occur beyond the intersection of the test specimen and the side walls of the test apparatus.	There was no visible flaming beyond the intersection of the side walls and test apparatus.	Pass
4	Flames in second-story test room Flames shall not occur in the second-story test room.	There was no visible flaming in the second-story test room.	Pass
5	Flame propagation: Exterior face of the test specimen Temperatures measured at specified locations shall not exceed 1000 °F.	Temperatures did not exceed the 1000 °F limit.	Pass
6	Horizontal Flame propagation: Combustible components and insulation Temperatures measured at specified locations in the wall cavity air space shall not exceed 1000 °F.	Temperatures did not exceed the 1000 °F limit.	Pass
7	Vertical Flame propagation: Combustible components and insulation Temperatures measured at specified locations in the wall cavity air space shall not exceed 1000 °F.	Temperatures did not exceed the 1000 °F limit.	Pass
8	Temperatures in second-story test room Temperatures measured 1 in. (25 mm) from the interior surface of the test specimen within the second-story test room shall not exceed 500 °F above the ambient air temperature of the test facility at the start of the fire test.	Temperatures did not exceed 500 °F above the ambient air temperature.	Pass



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3. Details of external façade wall assembly/system components specifications covered in this certificate.

a. Design no. (reference drawings by sponsor):

**Alucopanel-SAUDI-SRW-SD01 to
Alucopanel-SAUDI-SRW-SD07 Rev.0 and Wall Bracket
Type B1, B2 & B3**

b. Base Wall Assembly:

The base wall, made of the 15.9 mm thick Type X (GW-TX) Knauf gypsum board material is constructed to a galvanized steel framing via 92 x 32 x 1.2 mm (w x h x t) studs using Knauf TB 3.5 ϕ x 35 mm self-tapping screws. A single strip of 50 mm wide Knauf joint tape & Knauf ready gips jointing compound is applied along all exterior meeting edges of the boards, including all exposed screw heads.

c. Framing System:

i. Wall brackets:

"B1" - Galvanized steel (S275 Grade by Alucopanel Middle East LLC);

Dimensions: 970 x 200 x 80 x 6 mm (l x w x h x t)

"B2" (for horizontal cavity barrier) - Galvanized steel (S275 Grade by Alucopanel Middle East LLC);

Dimensions: 750 x 80 x 300 x 4 mm (l x w x h x t)

"B3" - Galvanized steel (S275 Grade by Alucopanel Middle East LLC); Dimensions: 970 x 200 x 80 x 6 mm (l x w x h x t)

Fasteners: Zinc plated screws - ϕ 6 x 64 mm ref. SDSHWZ14x212 by TUF-FIX

ii. Runner profiles: "C3" Aluminium L Angle (Alloy: 6063-T6, by Alucopanel Middle East LLC); Dimensions: 40 x 40 x 3 mm (l x w x t).

Fastener screw + bolt: Stainless steel, ϕ 8 x 25 mm.

d. Cavity Insulation & Cavity Fire Barrier System:

i. Single layer of 50 mm thick insulation installed on the entire exterior face of base wall: Insulation made of a mineral wool with aluminium facing in one side, with density - 40 kg/m³ & dimensions, 1200 x 600 x 50 mm (h x w x t) by Saudi Rockwool Factory ref. SRW Saudi Rockwool Board Alu. FSK (+) Zinc plated carbon steel "Metal Insulation Holder TMD by TORQ (+) Joint tape made of aluminium foil tape, 120 mm wide.ii. Cavity Fire Barrier System - Fixed horizontally & vertically, made of a pre-compressed stone mineral wool insulation with facing on both sides, density - 75 kg/m³ & pre-cut dimensions (1020-uncompressed x 120 mm: d x t) by Siderise Insulation Limited ref. CH-120/120 (+) "B3" wall bracket for horizontal (+) Galvanized steel support, 25 x 505 x 1 mm (w x x t), ref. B355G by Siderise Insulation Limited (+) Siderise RFT120 aluminium joint tape.

e. Exterior Cladding & Support Hardware:

i. Panels are comprised of an Aluminium Composite Panel (ACP) by Alucopanel Middle East LLC, ref. as ALUCOPANEL® A2, 4 mm thick Aluminium Composite Panel, fabricated and pre-bended tray profile with a nominal bend of 20 mm on the edges. Aluminium Angle Cleat 20 x 20 x 2 mm (w x h x t) (alloy: AA 6063/T6); fixed into the panels using two rivets of size ϕ 4 x 21 mm. Panels were fastened to the runner profile with ϕ 4.6 x 38 mm hex head self-drilling screws.

ii. Return bend of the ACP fastened on the interior face of the base wall are to be used as a window flashing around the window openings - header, jambs & sill and the side perimeter edges.

iii. Total of 25 nos. panels with a maximum dimension of 1450 x 2824 mm (w x h) and a minimum dimension of 197.3 x 200 (w x h). The panels are fixed to the base wall by screwing on the extended galvanized iron wall brackets.

iv. Total gap = 1000 mm between panel exterior face & base wall,
Total gap = 996 mm between panel interior face & base wall,
Total air cavity = 946 mm between panel interior face and insulation.

f. Panel Gap Sealant & Termination Details:

Horizontal and vertical joint gap (20 mm nominal) are filled with fire stop silicone sealant (Ref - Dowsil 813C Weather Proof Sealant by Dow Corning) applied over initially inserted 15 mm width aluminium U - channel.

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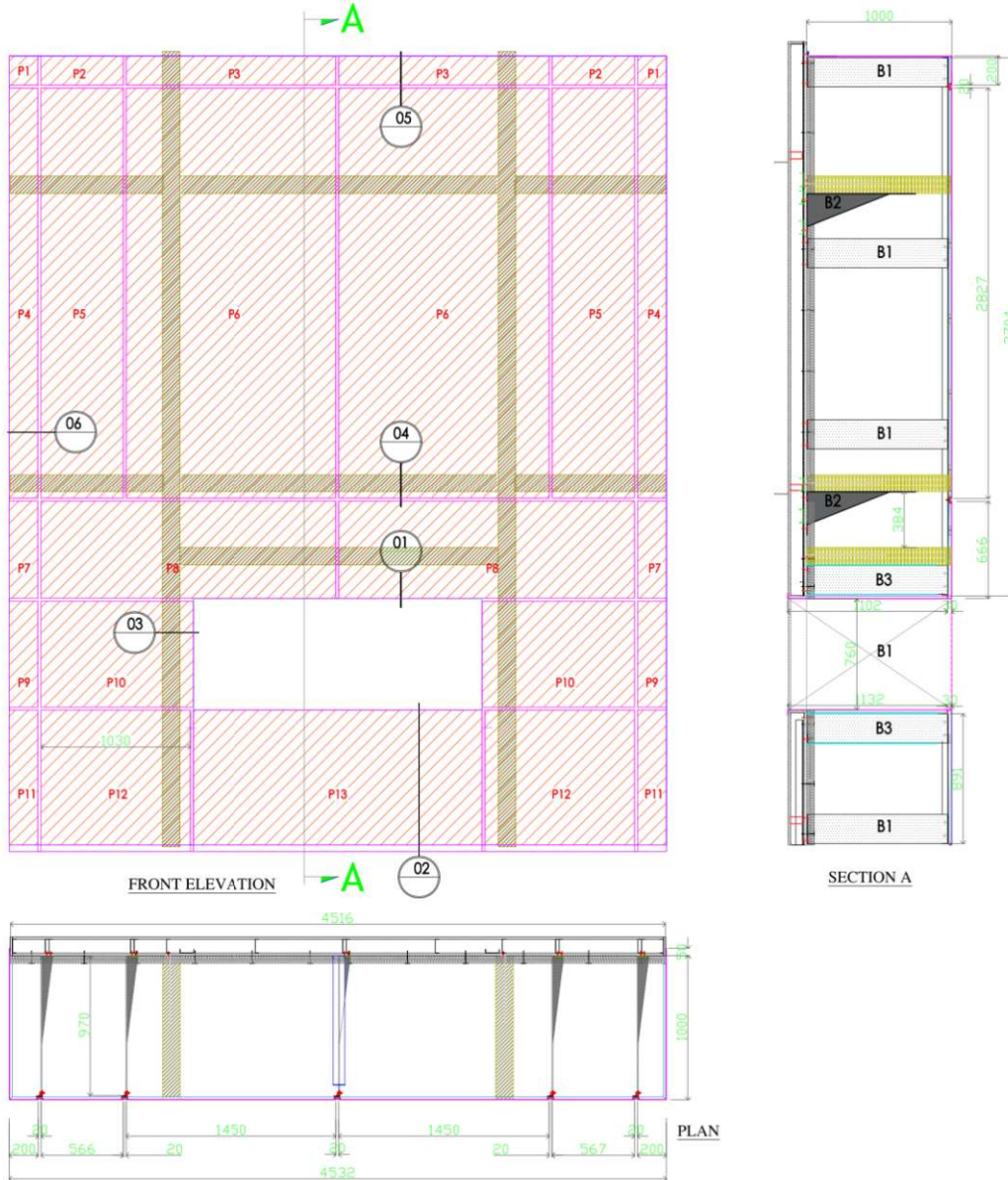
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4. Exterior wall assembly specific section details (see section 3.a. reference design no.):



Signed for ESL



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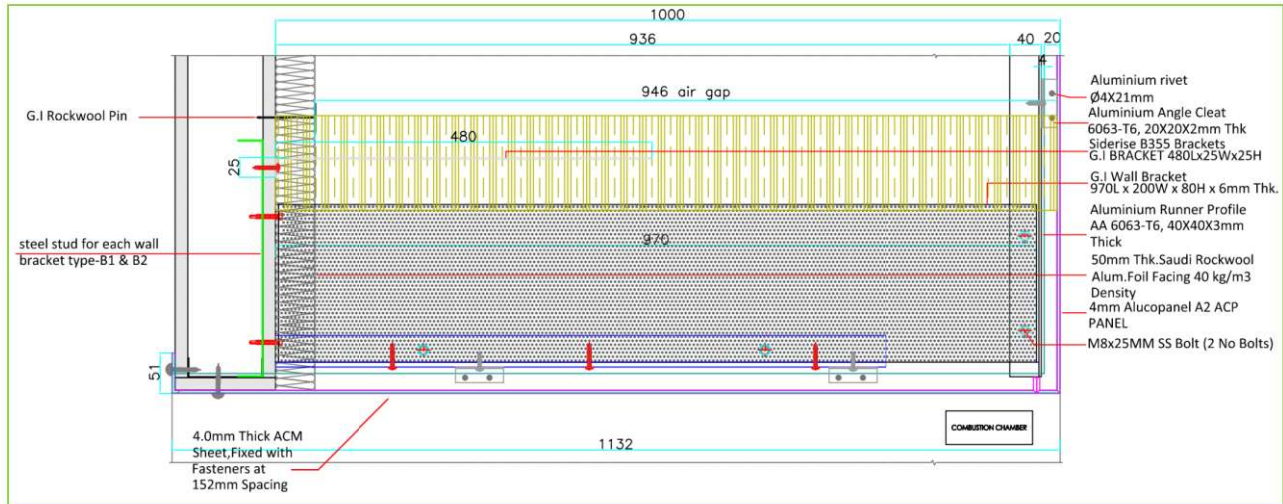
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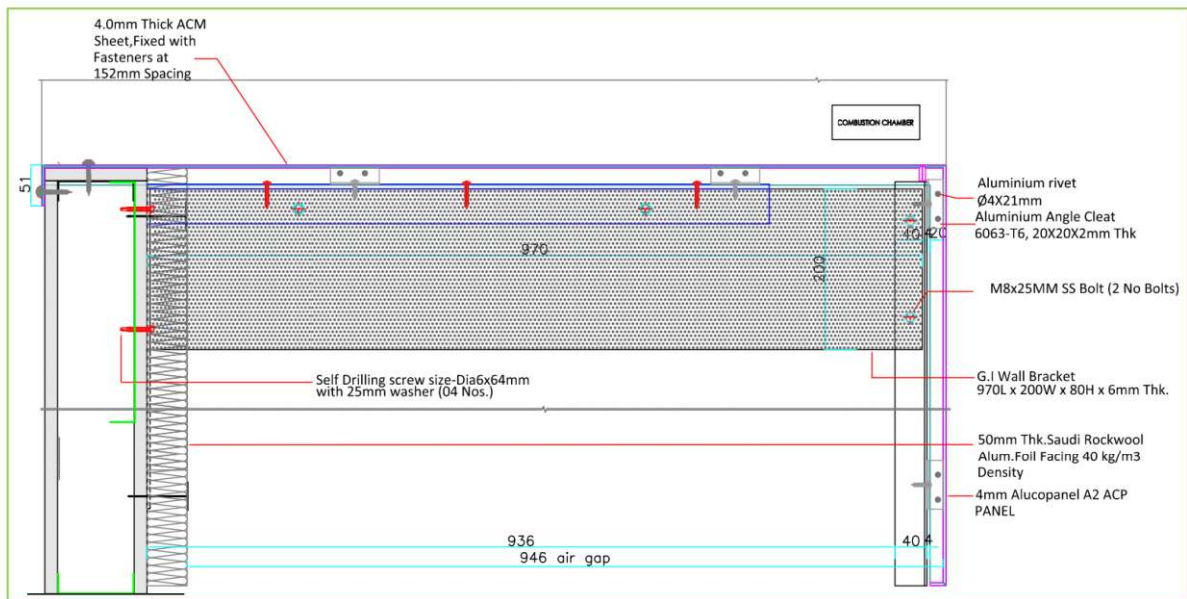
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Detail 1: Window Header



Detail 2: Window Sill




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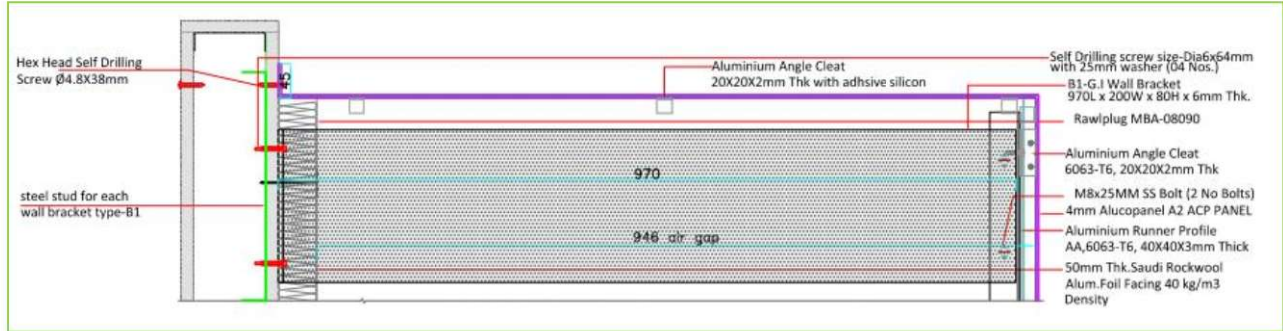
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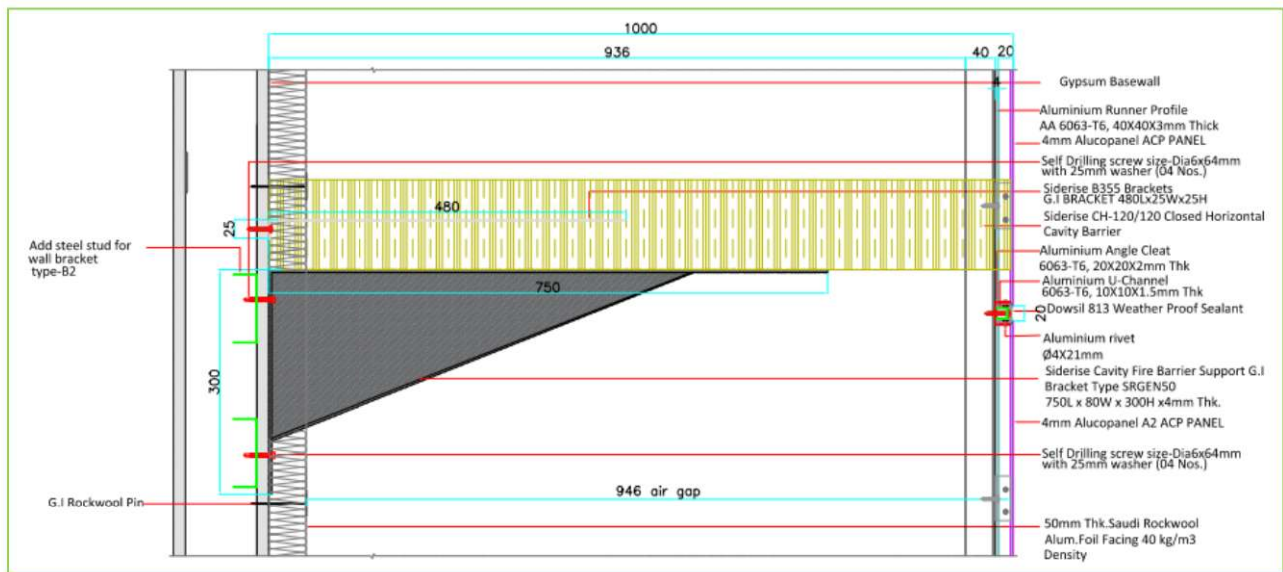


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Detail 3: Top Side Edge



Detail 4: Typical horizontal joint & cavity barrier



[Signature]
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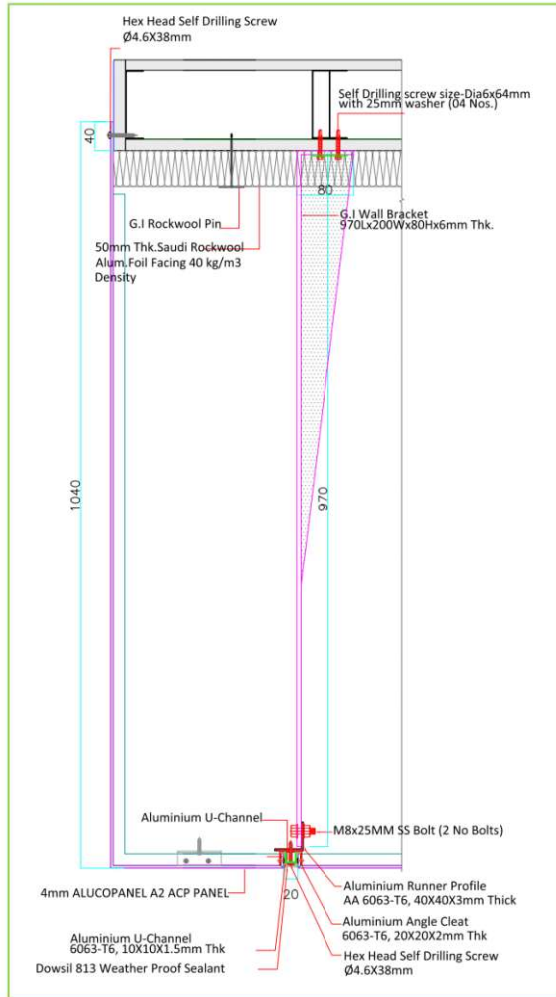
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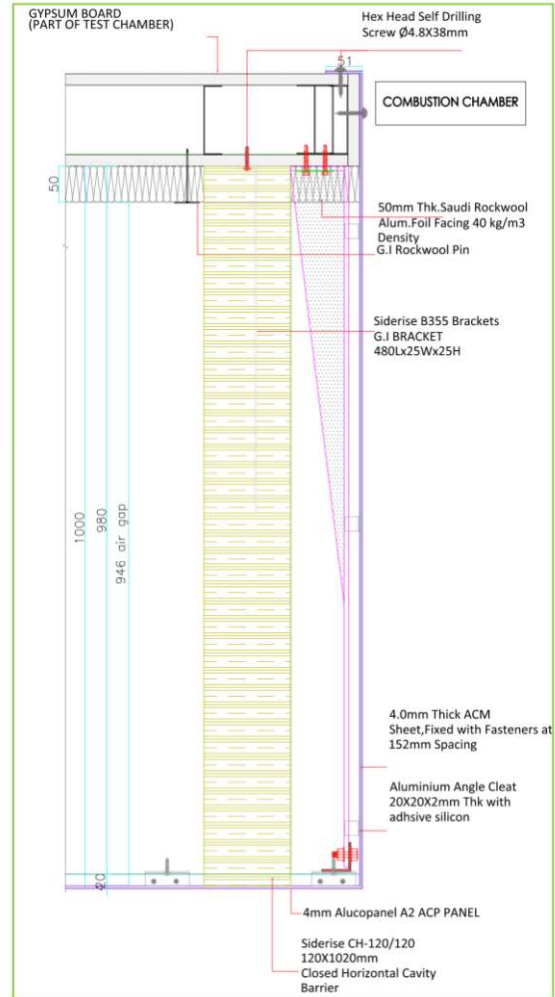
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Detail 5: Side Edge



Detail 6: Window Jamb



[Signature]
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Limitation of use:

1. This certification covers only those exterior wall assembly/system components specifications described in section 3 above.
2. This certification does not cover the fire resistance performance of the exterior wall assembly.
3. Actual construction referred to the system/assembly in this certificate shall conform to the design of the tested system/assembly.

Additional notes:

1. System/Assembly testing and certification in compliance with NFPA 285 (2025) covers the evaluation of the performance of the exterior wall assembly and panels used as a component of the curtain wall assembly. It does not provide an evaluation of individual components (e.g. thermal insulation, cavity fire barriers, fire-stop silicon as a joint sealant, etc.) incorporated within the wall assembly.


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