

CERTIFICATE OF CONFORMITY

Certificate number: **ESL-25-11818**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:

RAK Glazed and Unglazed Porcelain tile.

RAK Glazed /Unglazed Porcelain tiles with Rockany Undercut System in External Wall System/Assembly (ESL system designation: FPTN-0313-11818)

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

RAK Ceramics PJSC
P.O. Box: 4714,
Ras Al Khaimah, United Arab Emirates (UAE)

Manufactured in the following location(s):


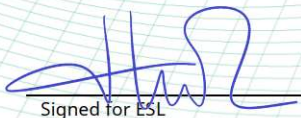
RAK Ceramics PJSC
P.O. Box: 4714,
Ras Al Khaimah, United Arab Emirates (UAE)

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.

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 **28 April 2025** and remains valid under the condition that the Certificate Holder fulfils the requirements of the agreement on certification supervision no. **0414/SA/25**



Tomasz Kielbasa
Certification Manager

28 April 2025
Date of issue

27 April 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This Certificate remains valid till date stated above, unless suspended, withdrawn or terminated.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 ESLdirectory

Appendix to Certificate of Conformity

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CERTIFIED PRODUCT:

Product / System Description:

External Wall System/Assembly including RAK Glazed /Unglazed porcelain tiles with Rockany Undercut System is a non-loadbearing external wall system/assembly comprised of RAK Glazed /Unglazed porcelain tiles installed on aluminium vertical profiles using aluminium wall brackets on the base wall (substrate). Mineral wool insulation is installed on the exterior face of the base wall (substrate). Cavity barriers are installed between the base wall (substrate) and the inner face of the porcelain tile.

Reaction to Fire Classification for RAK Glazed and Unglazed porcelain tiles:

Product Description	Test Standards	Classification
RAK Glazed and Unglazed porcelain tiles Density: $2,200 \pm 100 \text{ kg/m}^3$	EN 13501-1:2018	Reaction to fire classification: A1

RAK Glazed /Unglazed porcelain tiles with Rockany Undercut System in External Wall System/Assembly Fire Propagation Performance Evaluation Summary:

System Description	Test Standards	Test Result
RAK Glazed /Unglazed porcelain tiles with Rockany Undercut System in External Wall System/Assembly Thickness of the porcelain tile: 14 mm to 20 mm	NFPA 285 – 2025	Pass


Signed for ESLTomasz Kielbasa
Certification Manager28 April 2025
Date of issue27 April 2028
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No: **ESL-25-11818**Issue: **01**Details of external façade wall assembly/system components specifications covered in this certificate.

Design no (reference drawings by manufacturer): Rockany® Undercut Railing System- RKY-2024-PD-067-01, RKY-2024-PD-067-02, RKY-2024-PD-067-03, RKY-2024-PD-067-04, RKY-2024-PD-067-05, RKY-2024-PD-067-06, RKY-2024-PD-067-07, RKY-2024-PD-067-08 & RKY-2024-PD-067-09.

a. Exterior cladding

RAK glazed/unglazed porcelain tiles shall be fixed onto the undercut railing profiles using aluminium (Alloy 6061-T6) clips (levelling and non-levelling) fixed on the tile using SS316 M6 undercut anchors. The gaps allowed in the horizontal and vertical joints of the tiles are 10 mm. The maximum permitted air cavity between the cavity insulation's exterior face and the tiles' interior face is 70 mm.
Product Manufacturer: RAK Ceramics PJSC

b. Fixing components

1. L- Wall brackets

Aluminium (Alloy 6063-T6) wall brackets shall be fixed into the base wall (substrate) using M8 x150 mm hexagonal self-drilling screws with nut and washer.

- 120 mm x 50 mm x 70 mm x 5 mm (length x leg x leg x thickness).
- 50 mm x 50 mm x 70 mm x 5 mm (length x leg x leg x thickness).

2. Vertical T- runners

Aluminium (Alloy 6063-T6) profiles shall be fixed into the wall bracket using Ø6.3 x 25 mm self-drilling screws.

- 100 mm x 50 mm x 2 mm (length x width x thickness).

3. Vertical L- runners

Aluminium (Alloy 6063-T6) profiles shall be fixed into the wall bracket adjacent to the window opening and vertical perimeter using Ø6.3 x 25 mm self-drilling screws.

- 50 mm x 50 mm x 2 mm (length x width x thickness).

4. Undercut Railing

Aluminium (Alloy 6063-T6) railing shall be fixed on the runner using Ø4.8 x 32 mm self-drilling screws.

c. Cavity insulation

A single layer of 50mm thick stone wool insulation with a density of 50 kg/m³ (ref. S2XX) shall be installed on the exterior of the base wall (substrate) except for the locations of the cavity fire barriers using M8 x 110 mm stainless steel insulation pins.

Products manufacturer: Fujairah Rockwool Factory

d. Cavity barrier

1. Horizontal cavity barrier

RH25-90/30 open state cavity fire barriers with 75 mm x 75 kg/m³ (thickness x density) shall be installed at the head of the window opening, and every floor termination using RS 350 fixing brackets. The fixing brackets shall be fixed to the base wall (substrate) using size Ø6x 38 mm carbon steel self-drilling screws.

2. Vertical cavity barrier

RV-90/30 cavity fire barriers with 75 mm x 75 kg/m³ (thickness x density) shall be installed along the vertical edge of the window opening using B65/110 fixing brackets. The fixing brackets shall be fixed to the base wall (substrate) using size Ø6x 38 mm carbon steel self-drilling screws.

Products manufacturer: Siderise Insulation Ltd.

e. Perimeter and window flashing:

RAK glazed/unglazed porcelain tiles shall be fixed along the window and perimeter opening onto the undercut railing profiles using aluminium (Alloy 6061-T6) clips (levelling and non-levelling) fixed on the tile using SS316 M6 undercut anchors.

f. Base wall:

15.9 mm thick Type X (GW-TX) gypsum board material (interior & exterior) installed on galvanised steel framing consisting of 92 x 32 x 1.2 mm (width x height x thickness) studs and 95 x 25 x 1.2 mm (width x height x thickness) tracks using Ø 3.5 x 35 mm self-tapping screws.



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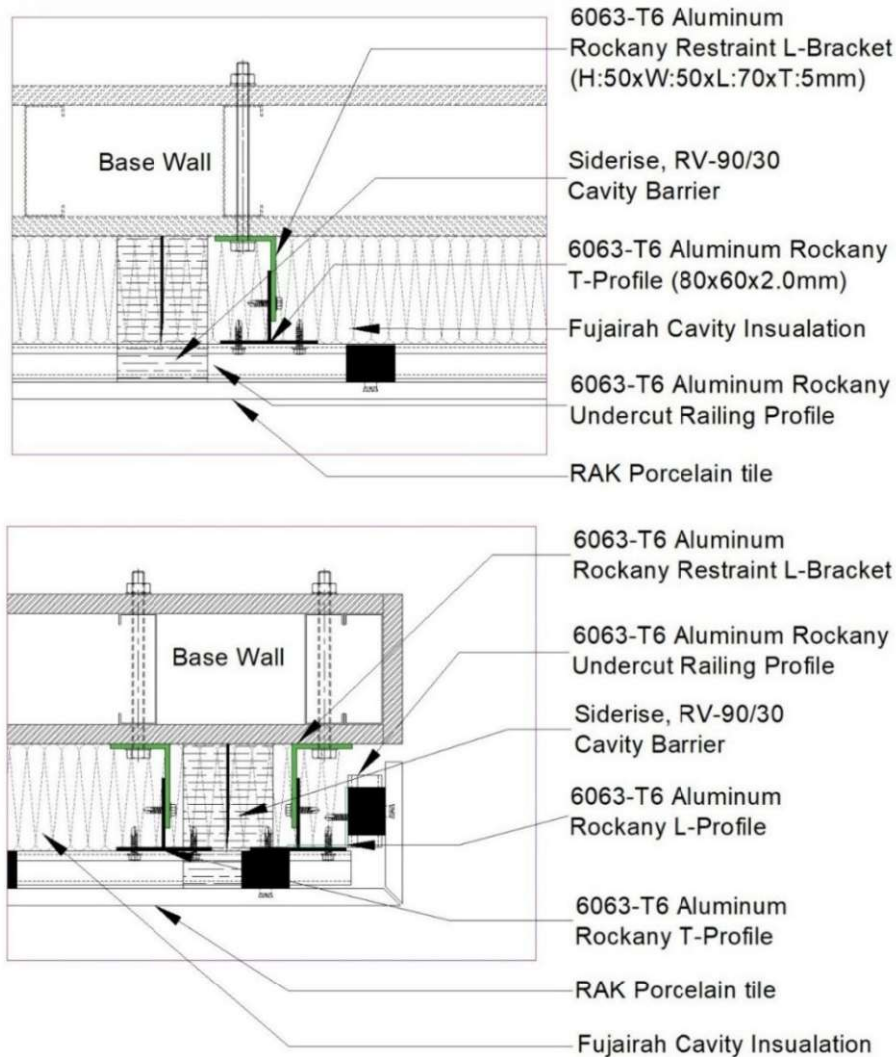
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Fig 1: Horizontal section - fixing details & window details




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Emirates Safety Laboratory (ESL)
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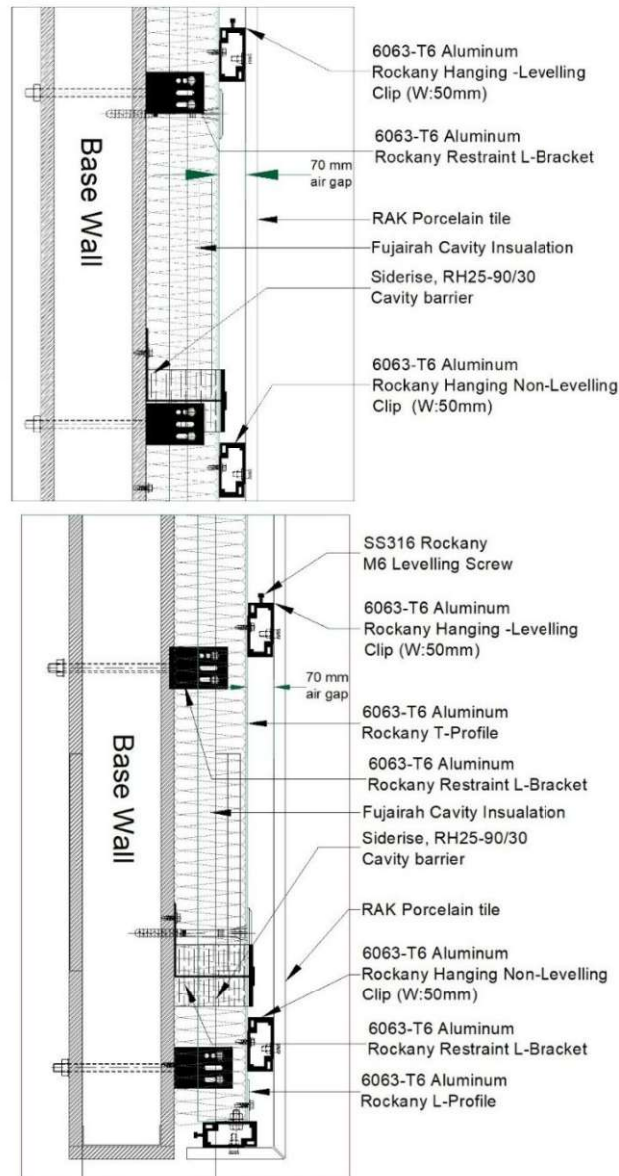

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Fig 2: Vertical section - fixing details & window details




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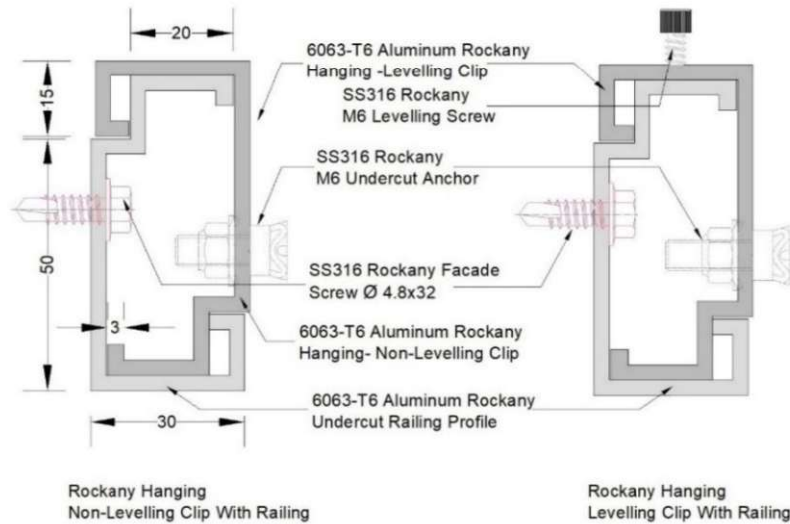
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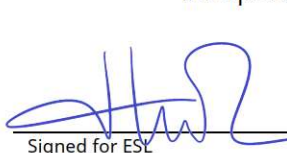

Fig 3: Porcelain tiles fixing clip details

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:

- A. For the RAK Glazed and Unglazed porcelain tile as a product
 1. This certification covers the reaction to fire classification of the RAK Glazed & Unglazed porcelain tiles as a product.
- B. For RAK Glazed /Unglazed porcelain tiles with Rockany Undercut System in External Wall System/Assembly
 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. Variation in the thickness of the RAK Glazed and Unglazed porcelain tile is not allowed, except for the variation(s) specified herein.
 4. Actual system/assembly construction shall conform to the certified design of the system/assembly.
 5. 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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