



MINERALITE

Flexible Stone for Wall Surfaces

Fire Performance Data Sheet - Internal

Product Classification: Group 1 (AS 5637.1:2015)

Test Method: AS/NZS 3837:1998 (Cone Calorimeter)

1. Product Description

Mineralite is a flexible, mineral-based wall and ceiling lining system designed for architectural interiors requiring high fire performance, durability and refined natural finishes. Its mineral composition and low-emission binder enable compliance in the most demanding fire-safety zones across Australia and New Zealand. The product is supplied as a thin tiles and slabs, suitable for use over compliant substrates.

2. Fire Test Summary

2.1 Fire Hazard Properties (Australia)

Standard: AS 5637.1:2015 **Test Method:** AS/NZS 3837:1998 (Cone Calorimeter) **Result:**

- **Group Number: Group 1**
- **Average Specific Extinction Area (ASEA):** *Within limits for Group 1 classification*
- **Smoke Growth Rate Index (SMOGR):** *Within limits for Group 1 classification*

Interpretation: Mineralite meets the highest performance classification for internal wall and ceiling linings under the NCC (National Construction Code). Group 1 materials are permitted in the most fire-sensitive internal environments, including exitways, corridors, fire-isolated stairs, and public assembly spaces, subject to substrate compliance.

3. Application Conditions for Compliance

Mineralite is a **finish**, not a standalone lining. Its fire performance is dependent on the substrate or lining system it is applied to.

Suitable Substrates Include:

- Non-combustible sheathing (e.g., fibre-cement, magnesium oxide board)
- Masonry or concrete
- Plasterboard systems with compliant Group Number or FRL
- Tested wall and ceiling systems meeting NCC requirements

Installation Notes:

- Apply Mineralite strictly in accordance with manufacturer instructions.
- Do not apply over non-compliant or untested combustible substrates where Group 1 performance is required.

4. New Zealand Use Suitability

4.1 Internal Surface Finish Requirements (NZBC C/VM2 & C/AS2–C/AS7)

New Zealand can use **Group Numbers** derived from AS/NZS 3837 small-scale tests as follows.

Acceptance:

- New Zealand accepts **AS/NZS 3837:1998 results** for determining Group Numbers when tested in accordance with **AS 5637.1:2015**, provided the product is used as a **surface finish over a compliant substrate**.
- A **Group 1** classification is recognised as **Group 1-S** when smoke production is within limits (which AS 5637.1 requires for Group 1).

4.2 Suitability Statement for New Zealand

Mineralite, when applied as a finish over a compliant substrate, is **suitable for use in New Zealand** as an internal surface finish in areas requiring **Group 1-S** performance, including:

- Exitways and corridors
- Sleeping occupancies (e.g., apartments, hotels, care facilities)
- Education and healthcare buildings
- General occupied spaces

Important: As in Australia, Mineralite’s compliance in New Zealand is tied to the **tested wall or ceiling system**. It should be specified as a **finish applied over a substrate that already meets the required Group Number or FRR**.

5. Limitations

- Mineralite does **not** provide structural fire resistance (FRR).
- Not suitable as a standalone fire barrier or fire-rated system.
- External wall use in New Zealand or Australia require system-level façade testing
- Performance claims apply only to the tested formulation and installation method.

6. Specification Note

Mineralite is treated as a **finish over a non-combustible wall**, and must be used as a “surface finish over compliant substrate”.

Fire Performance: Group 1 classification to AS 5637.1:2015 (tested to AS/NZS 3837:1998). Suitable for use in New Zealand as a Group 1-S internal surface finish when installed over a compliant lining system.

7. Compliance Summary Table

Region	Standard	Test Method	Classification	Notes
Australia	AS 5637.1:2015	AS/NZS 3837:1998	Group 1	Highest NCC internal lining classification
New Zealand	NZBC C/VM2	AS/NZS 3837:1998 (via AS 5637.1)	Group 1-S (accepted)	Must be applied over compliant substrate