

Reference: Ignis Labs Bushfire Compliance Assessment IGNL-8252-99-01R I01R01

Standard: AS 3959:2018 Section 8 (BAL-40)

Subject: TECHNICAL ADVISORY NOTE- BAL-40

Limitation of Liability: This document is for informational purposes only and does not constitute a warranty. The assessment relates exclusively to the prototype test specimens described in Report IGNL-8194. This assessment specifically utilized a steel frame. Use of these products with alternative construction materials, such as timber frames, has not been specifically evaluated in the referenced report. Any such application requires an independent Performance Solution determined by a qualified building surveyor or fire engineer. Knotwood Pty Ltd assumes no liability for installations that deviate from the tested prototype.

The information provided herein is a technical summary for clarifying system assembly. For comprehensive details including all regulatory limitations and material specifications the recipient must refer to the full Ignis Labs report which is required to be attached to this document.

TECHNICAL DIAGRAM REFERENCE

Please refer to Figure 1 (Knotwood Aluminium Clad Wall System) on page 6 of the attached Ignis Labs Report IGNL-8194 for the detailed cross-section of the tested prototype.

[IGNIS-LAB-REPORT](#)

Installation Sequence for BAL-40 Compliance

The following assembly steps were evaluated in the referenced assessment to achieve performance equivalence for bushfire attack levels up to BAL-40:

- The internal face is lined with 10 mm plasterboard fixed to a steel frame.
- Non-combustible insulation is installed within the cavity between the internal lining and the external barrier.
- A wall membrane is applied over the primary framework.
- A continuous 9 mm fibre cement backing sheet is fixed to the exterior face of the framework to serve as the primary fire barrier for wall applications.
- For eave and soffit linings a minimum thickness of 6 mm fibre cement sheeting is required.
- Aluminium top hats are fixed over the fibre cement backing to provide support for cladding panels.
- Aluminium cladding is installed ensuring all junctions and joints are covered, sealed, overlapped or butt-jointed.
- All vents and weep holes must be protected with corrosion-resistant mesh to prevent ember penetration.