

AliBat ® Specification and Installation Guide

1. Introduction

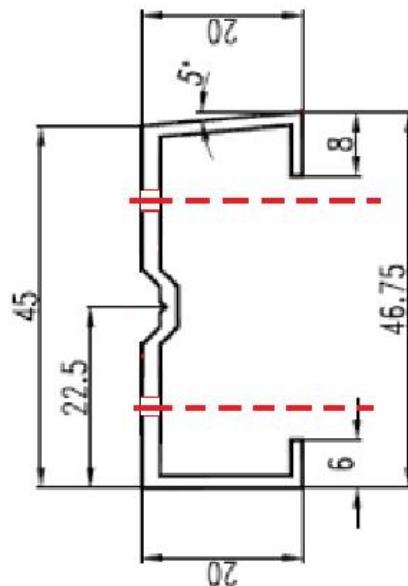
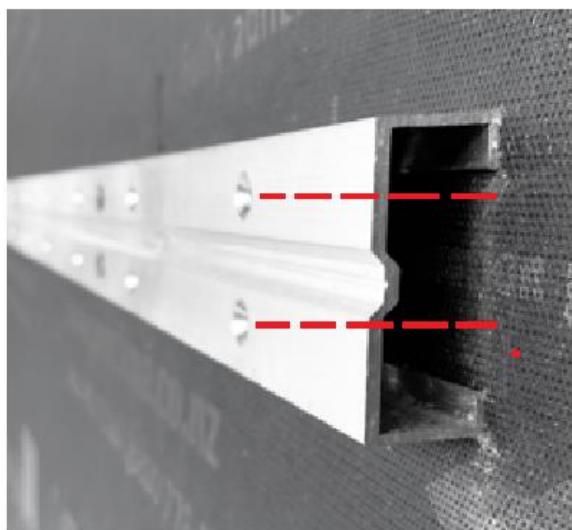
This document is published as an aid to Specifiers when selecting AliBat as a preferred cavity batten option. When used in conjunction with Nu-Wall cladding it should be used in conjunction with published BRANZ appraised system drawings and documentation, copies of which are available on <https://nuwall.co.nz/technical-resources/>

2. Product description

AliBat is an extruded non-ventilated aluminium profile which is designed to meet the requirements for a non-combustible structural cavity batten. AliBat is extruded from 6061-T6 aluminium alloy with a general wall thickness of 1.50mm with the main face increasing to 2.25mm for fixing of cladding clips.

AliBat weighs approximately 0.47Kg /metre and is supplied in 5.80m lengths in mill finish. Powder coated finish is available on request. (POA)

The batten is fabricated with a pair of 10-gauge countersunk holes @ 100mm centres over the full length (5.8m) as well as a full-length swage line down the centre to facilitate fixing into the structure.



3. Performance

AliBat is non-ventilated, but when used with Nu-Wall cladding it can be used to form a 20mm drained and vented cavity. AliBat is categorised as a class 1 non-combustible building product which can be specified for use as part of a non-combustible exterior cladding system as defined by NZBC Clause C3.

AliBat has been subject to face-load testing by BRANZ and has been structurally rated up to an ULS of 4.52Kpa (fixed @600c) and 6.09Kpa (fixed @300C) – Refer BRANZ report ST1234-00101

The structural strength of AliBat allows it to be fixed horizontally at 600mm centres into studs with no requirement for supporting noggs.

Cladding is fixed directly to AliBat using suitable self-drilling TEK screws.

4. AliBat behind non-Nu-Wall boards

As a non-ventilated structural batten, AliBat is ideally suited for use with Nu-Wall's proprietary self-ventilating aluminium boards. The batten can also be used behind various non-Nu-Wall profiled and non-profiled cladding products.

***Design and specification of the cladding fastening to the AliBat will need to be provided by the respective cladding manufacturer.*

5. Installation

Timber framing must comply with NZS 3604 for buildings or parts of buildings within the scope limitations of NZS 3604. Buildings or parts of buildings outside the scope of NZS 3604 must be to a specific design in accordance with NZS 3603 and AS/NZS 1170.

***Refer Thermal Expansion & Wall Framing Requirements guidance doc*

Where specific design is required, the framing must be of at least equivalent stiffness to the framing provisions of NZS 3604. In all cases, studs must be at a maximum 600 mm centres.

a) Vertical cladding:

For vertical cladding, AliBat is fitted horizontally across the studs with 2 x 10G screws (max span 600C) using the predrilled holes. Due to its superior spanning capability, noggs can be spaced at 800C or even removed if bracing design allows.

***For further installation guidelines consult AliBat Fastening Bulletin (May 2024)*

b) Horizontal cladding

For horizontal cladding, AliBat is fitted vertically down the studs and fixed with supplied 10G screws at 300mmC down the centre of the batten in the slotted channel provided. A single screw down the centre of the AliBat is to ensure adequate stud edge clearance is maintained. (engineering requirement)

***For further installation guidelines consult AliBat Fastening Bulletin (May 2024)*

c) Cavity packing, spacers and shims

For alignment of irregular surfaces and build up, Nu Wall supplies 1mm aluminium shims with the AliBat. Various non-Nu-Wall supplied packers (H-packers) can also be used if they comply with any fire engineering requirements.

***Refer to AliBat Maximum Cavity Packing Engineering report P127.2025.10.1 for maximum packing behind AliBat.*



d) Cantilever

As a rigid extrusion, AliBat may be cantilevered to bridge control joints etc. A general guide is a 75% back span to a 25% cantilever ratio, with a max cantilever of 200mm. Depending on the installation, fastening centres to the back span may be required to be closed to 200mmC. Please consult Nu-Wall technical team for clarification.

6. Design responsibility

The Specifier on the project must ensure that the information provided in this and all referenced literature is suitable for the intended application. Specific design and detailing falls outside the scope and specifications of this document.

In such cases the specifier must ensure that the design meets the relevant performance requirements of the NZBC.

Assistance is available from the Nu-Wall technical team in development and reviewing of non-standard detailing.

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7. Warranty

As a solid aluminium product, AliBat is covered by a 50yr Nu-Wall warranty.

8. Additional resources for Specifiers

Nu-Wall offers additional supporting technical documentation for AliBat which are available on www.nuwall.co.nz

- AliBat Framing and Batten Layout Guide.
- AliBat Fastening Bulletin (May 2024)
- AliBat Maximum Cavity Packing Engineering report P127.2025.10.1
- Thermal Expansion & Wall Framing Requirements