

# Specification +

Architects, Engineers & Interior  
Designers

## PaneLux® A1 Solid Aluminium Cladding System

Version Details: 10072025  
Version: V1 – 072025  
Version Date: 10/07/2025



[www.mulford.co.nz](http://www.mulford.co.nz)

Mulford New Zealand confirms that this product is not subject to any warning or ban under Section 26 of the Building Act and will provide product information required under Section 14G (3) of the Building Act. This Specification + may only be reproduced in its entirety. Uncontrolled in printed format.

## Specification +

*This Specification + has been produced with the understanding that the product will be utilised in accordance with the manufacturer's details in the application described below.*

### 1. General:

This Specification + relates to the installation of the PaneLux 3 mm Solid Aluminium Cladding System supplied by Mulford New Zealand.

### 2. Related Work:

The installation of the PaneLux 3 mm Solid Aluminium Cladding System relies on the following:

- In accordance with NZS 3604:2011 for timber-framed buildings; or
- In accordance with NZS 3404:2009 Part 1 and the NASH Standard Part 2: May 2019 for light steel-framed buildings.
- Or by specific engineering design (SED) in accordance with B1/VM1 Amendment 21 (2 November 2023), prepared by a suitably qualified chartered professional engineer.
- Inter-storey drained joints must be installed to limit continuous cavities to a maximum of two storeys or 7 metres in height, whichever is less, as required by NZBC Acceptable Solution E2/AS1.

### 3. Documents:

Refer to the following documents that are referenced in this Specification +

- PaneLux® A1 Solid Aluminium Cladding System Product Technical Statement V1 – 072025.
- PaneLux® A1 Solid Aluminium Cladding System BPIR Version V1 - 2024.
- PaneLux® A1 Solid Aluminium Cladding System Design Guide V1 – 072025.
- PaneLux® A1 Solid Aluminium LAB System Typical Details 25<sup>th</sup> July 2025
- PaneLux® A1 Solid Aluminium Cladding System Cleaning and Maintenance Guide V1-072025.
- PaneLux® A1 Solid Aluminium Panel Processing and Technical Data Guide.
- PaneLux® A1 Solid Aluminium Panel – Visual Specification and Quality Plan V1 -072025.

Refer to the following related documents:

- NZS 3604:2011 for timber-framed buildings.
- NZS 3404:2009 Part 1 and the NASH Standard Part 2: May 2019 for light steel-framed buildings.

### 4. General Design Considerations:

PaneLux must be specified in the requirements of the PaneLux® A1 Solid Aluminium Cladding System documents refer section 3, or in accordance with a specifically engineered design by a suitable qualified chartered professional engineer.

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### 5. Description of Product:

PaneLux is a 3 mm thick solid aluminium panel, pre-finished which is coil coated using an in-line, 3-coat fluorocarbon PVDF system. The rear aluminium sheet face has a mill finish or polyester-based service coat. Product identification including the product name, colour and production date can be located on the rear of the panel.

Length (mm): 3200 & 4000 (standard), up to 6000 (indent) Width (mm): 1550 (standard), 1250 (indent). Weight 8.1 kg/m2.

### 6. Substitutions:

PaneLux® A1 Solid Aluminium panel substitutions are not permitted. PaneLux® A1 Solid Aluminium panels can be fabricated and fixed using the LAB Extrusion System to the installation guides and supplementary details, additionally, the PaneLux® A1 Solid Aluminium panels may also be used in conjunction with other propriety cassettes systems that meet the projects performance matrix prepared by a suitable qualified chartered professional engineer.

### 7. Assembly Components:

The following components were installed and met the criteria of the AS/NZS4284:2008 “Testing of Building Facades” – refer Facadelab test report 23-02 dated 24<sup>th</sup> July 2023 - PaneLux® A1 fixed on the LAB Extrusion System.

Supplied by Mulford New Zealand:

- PaneLux A1 Solid Aluminium Panel – 3 mm thickness.
- LAB Extrusion System – Aluminium fixing bracket system.

Supplied by fabricators/installers deemed “others” stated in the typical details:

- 10G Stainless Steel Screws.
- 15 mm PEF Backing Rod.
- Dow Corning 791 Silicon Sealant or equivalent product with identical performance attributes.
- Bostic Paneltac Bonding Glue or equivalent product with identical performance attributes.
- Extruded aluminium angle, box section, brackets, and flashings.
- Aluminium window still trays and head flashing.

Note:

1. Hatched areas are indicative only and fall outside the scope of the PaneLux A1 Solid Aluminium Cladding System.
2. Commercial detailing includes a rigid air barrier (RAB), in line with standard industry practice.
3. Residential detailing includes building wrap, consistent with common residential construction methods.

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### 8. Execution:

Delivery, Storage, Inspection and Handling:

- Refer to the PaneLux® A1 Solid Aluminium Panel Processing Technical Guide and Visual Specification Quality Plan [PaneLux® Solid Aluminium Panel - Mulford New Zealand](#)

Qualifications:

- PaneLux® A1 Solid Aluminium Cladding System must be installed by a Mulford New Zealand approved building professional, in accordance with the relevant PaneLux® A1 Solid Aluminium Technical Literature or project specific design.

Restricted Building Work:

- The installer must be a Licensed Building Practitioner (LBP) or work under the supervision of an LBP with the appropriate licensing class.

Check Related Work:

- Timber or lightweight steel framing must be constructed in accordance with the building consent and approved construction drawings. For existing buildings, the designer and installer must confirm that the structure is suitable for the proposed building work.

### 9. Application:

General:

- All conditions specified in the building consent documentation shall be strictly adhered to throughout the duration of the works.

### 10. Completion:

Quality Check:

- Check to ensure that the PaneLux® A1 Solid Aluminium Cladding System has been installed to the projects building consented design.

Warranties:

- A PaneLux A1 Solid Aluminium Panel warranty is available, contact Mulford New Zealand directly [Contact Our Expert Team - Mulford New Zealand](#)

Information for Care and Maintenance:

- Refer to the PaneLux A1 Solid Aluminium Cladding System Care and Maintenance Guide [PaneLux® Solid Aluminium Panel - Mulford New Zealand](#)

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## 11. Project Specific Selections

### Project Details

Project address:

Lot/DP number:

Purpose of plans:

Description of building work and reference to drawing numbers:

### Documents Supplied (check which applies)

- PaneLux® A1 Solid Aluminium Cladding System Product Technical Statement V1 – 072025.
- PaneLux® A1 Solid Aluminium Cladding System BPIR Version V1 - 2024.
- PaneLux® A1 Solid Aluminium Cladding System – Specification + Guide V1 – 072025.
- PaneLux® A1 Solid Aluminium Cladding System Design Guide V1 – 072025.
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### Designer Confirmation (check which applies)

#### Location - Wind zone or design pressure (ULS)

Low      Medium      High      Very High      Extra High      Design Pressure (ULS)

#### Exposure zone as per NZS 3604:2011

A, B, C, D, or E

#### Distance to Boundary

Greater than 1 m

Less than 1 m

#### Building - Framing

Timber – Existing building assessed at equivalent stiffness to NZS3604:2011

Light Weight Steel - Other (state what was used e.g., SIPs panel)