

# Specification Guide

Architects, Engineers & Interior  
Designers

## PaneLux® A1

### Solid Aluminium Cladding System

Version: V1.1 – 042026

Version Date: 01/04/2026



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# Specification Guide

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

## 1. General:

This Specification Guide relates to the installation of the PaneLux® A1 Solid Aluminium Cladding System supplied by Mulford New Zealand. PaneLux® A1 panels are manufactured from solid aluminium and contain no composite or polymer core.

## 2. Related work:

The installation of the PaneLux A1 Solid Aluminium Cladding System relies on the following supporting structure and design provisions:

- 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 Guide

- PaneLux® A1 Solid Aluminium Cladding System Product Technical Statement V2 122025.
- PaneLux® A1 Solid Aluminium Cladding System BPIR Version V1.1 April 2026.
- PaneLux® A1 Solid Aluminium Cladding System Design Guide V1.1 042026.
- PaneLux® A1 Solid Aluminium LAB System Typical Details July 2025
- PaneLux® A1 Solid Aluminium Cladding System Cleaning and Maintenance Guide V1.1 042026.
- PaneLux® A1 Solid Aluminium Panel Processing and Technical Data Guide V1.1 032026.
- PaneLux® A1 Solid Aluminium Panel – Visual Specification and Quality Plan V1.1 032026.

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® A1 must be specified in accordance with the requirements set out in the PaneLux® A1 Solid Aluminium Cladding System technical documentation listed in Section 3, or in accordance with a project specific engineered design prepared by a suitably qualified chartered professional engineer. PaneLux® A1 panels are non-structural façade panels and must be installed over a compliant subframe or carrier system designed to transfer structural loads to the primary building structure.

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#### 5. Carrier system substitution

Where alternative carrier systems or fixing systems are proposed in place of the PaneLux® LAB Extrusion System, the proposed system must be supported by project specific engineering design and confirmed as suitable by the project engineer and relevant consent authority prior to installation.

#### 6. Fabrication and installation requirements

Fabrication and installation of PaneLux® A1 panels must be carried out in accordance with the PaneLux® A1 Processing and Technical Data Guide and all relevant Mulford New Zealand technical documentation. Failure to follow the manufacturer's fabrication and installation recommendations may result in reduced panel performance and will void any applicable product warranties.

#### 7. Description of product:

PaneLux is a 3 mm thick solid aluminium panel, pre-finished and coil coated using an in-line three 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/m<sup>2</sup>.

#### 8. Substitutions:

PaneLux® A1 panel substitutions are not permitted. PaneLux® A1 panels may be fabricated and installed using the PaneLux LAB Extrusion System in accordance with the installation guides and supplementary details. Alternative proprietary cassette systems may be used where supported by project specific engineering design prepared by a suitably qualified chartered professional engineer.

#### 9. 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, flashings and window still trays and head flashings.

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#### 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.

#### 10. 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.

#### 11. Application:

##### General:

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

#### 12. 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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### 13. 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 V2 122025
- PaneLux® A1 Solid Aluminium Cladding System BPIR Version V1.1 April 2026.
- PaneLux® A1 Solid Aluminium Cladding System – Specification Guide V1.1 042026
- PaneLux® A1 Solid Aluminium Cladding System Design Guide V1.1 042026.
- PaneLux® A1 Solid Aluminium LAB System Typical Details 072025.
- PaneLux® A1 Solid Aluminium Cladding System Cleaning and Maintenance Guide V1.1 March 2026.
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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)

### 14. System performance

The PaneLux® A1 Solid Aluminium Cladding System has been tested as part of a façade assembly in accordance with AS/NZS 4284:2008 Testing of Building Facades. The tested assembly included PaneLux® A1 solid aluminium panels installed on the PaneLux® LAB Extrusion System. PaneLux® A1 panels are manufactured from solid aluminium and contain no composite or polymer core. Fire performance is supported by testing to AS/NZS 1530.1 and classification to EN 13501-1 achieving an A1 classification. The system must be designed and installed in accordance with the PaneLux® A1 technical documentation and project specific engineering where required.