

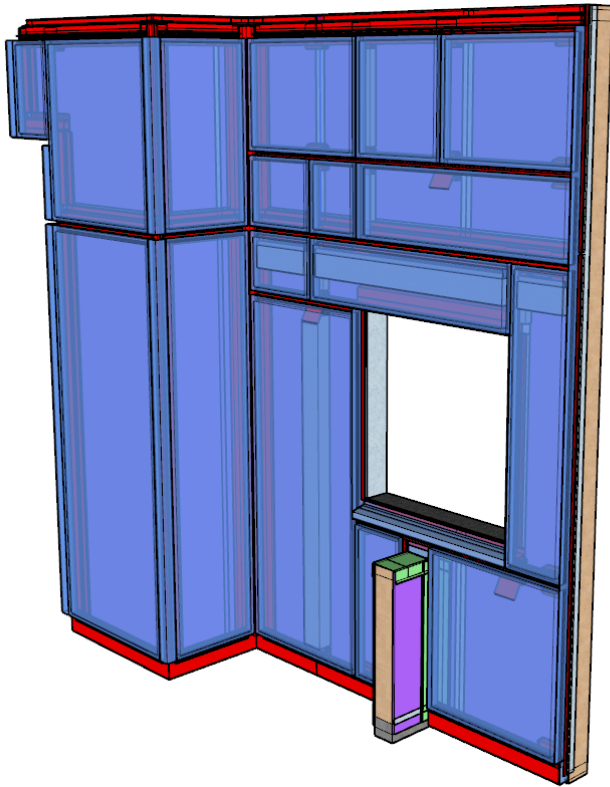
Cassette System suitable for:

- Multistorey or single level buildings
- Landscape of portrait orientation panels
- Cassette panels up to 5m long
- Large colour range in small quantities available
- Dryseal

‘Cassetting’ halves traditional cladding installation time:

- Eliminates time consuming and complex panel designs
- Automated fabrication accelerates factory panel production
- Simple ‘slot-into-place’ desing renders specialized panel installers optional

System Components



The cassette system consists of 'first fix' rail and 'second fix' panel components designed to simplify and accelerate installation.

Detailed Cassette Cladding guides are available from www.kaneba.co.nz:

- L Series Design Guide
- L Series Details
- L Series Installation Guide

- D Series Design Guide
- D Series Details
- D Series Installation Guide

- Maintenance
- Warranty

Variants of the L Series system:

- L-4ACP for aluminium composite materials
- L-3AL for solid aluminium

Variants of the D Series system:

- D-4ACP for aluminium composite materials
- D-3AL for solid aluminium

Series L	Series D	Series F
First fix components mounted to structure with minimum offset to create cladding of nominally 50mm thickness.	First fix components mounted to structure with offset to create cladding of minimum 87mm thickness. Incorporates more detailing options.	First fix components mounted to structure with offset to create cladding of minimum 87mm thickness. Incorporates specific fire separation features in the cladding cavity.

Series L – Suitable for buildings of all height.

<p>L01: Vertical Joint</p>	<p>L02: Horizontal Joint (midfloor)</p>	<p>L02A: Horizontal Joint (at floor)</p>
<p>L03: Internal Corner (vertical)</p>	<p>L04: External Corner (vertical)</p>	<p>L05: Window Head (horizontal)</p>
<p>L06: Window Jamb (vertical)</p>	<p>L07: Window Sill (horizontal)</p>	<p>L10: Wall / Fascia suspended bottom (horizontal)</p>
<p>L13: Coping (horizontal)</p>	<p>L13: Cladding termination (vertical)</p>	<p>L14: Bottom of wall (horizontal)</p>

Series D – Suitable for buildings of all height. Provision of additional water management features and the ability to incorporate thermal insulation and services in the cladding cavity.

<p>D01: Vertical Joint</p>	<p>D02: Horizontal Joint (midfloor)</p>	<p>D02A: Horizontal Joint (at floor)</p>
<p>D03: Internal Corner (vertical)</p>	<p>D04: External Corner (vertical)</p>	<p>D05: Window Head (horizontal)</p>
<p>D06: Window Jamb (vertical)</p>	<p>D07: Window Sill (horizontal)</p>	<p>D10: Wall / Fascia suspended bottom (horizontal)</p>
<p>D13: Coping (horizontal)</p>	<p>D13C: Cladding termination (vertical)</p>	<p>D14: Bottom of wall (horizontal)</p>

Product Description: Cassette Cladding 4ACP is a drained and ventilated cladding system for buildings. The system comprises 4mm ACP¹ cladding panels framed with proprietary extruded aluminium. These panel units are attached to the building structure with a proprietary extruded aluminium support frame. The functioning of the system is reliant on other building elements and the system is non-load bearing.

Product use: Cassette Cladding 4ACP is suitable to clad external walls and ceilings on buildings:

- Of importance levels 1 to 5^{2 10}.
- Constructed of timber framing, steel framing, reinforced concrete, or concrete block.
- Where the external wall structure is separated from the cladding with a building underlay¹¹.
- Approved building consent details are consistent with those approved by Kaneba.
- Window and door installations joining to the Cassette Cladding system are subject to specific weathertightness design and verification by the building designer.

Limitations: Cassette Cladding 4ACP was tested and must not be used where:

- Wind pressure (positive or negative) exceed 3kPa (ULS)³.
- Sideways seismic movement exceed 30mm in both directions.
- Walls are not vertical.

An alternative Cassette Cladding option may be required where the building use do not suit ACP⁴.

Cassette Cladding 4ACP must not be installed in contact with CCA-treated timber, uncoated cement plaster, ceramic tile mortar or grout, clay brick cement mortar, unpainted concrete, copper, brass, or lead⁵.

Cassette Cladding 4ACP must not be installed subject to water run-off from zinc or unpainted steel⁶.

Please refer to the current Cassette Cladding Installation Guides published on www.kaneba.co.nz for handling, installation, and maintenance information.

Compliance with the NZBC: Cassette Cladding 4ACP is an alternative solution and will meet or contribute to meeting the following New Zealand Building Code requirements when designed, installed, and maintained in accordance with the provisions of this statement:

¹ Suitable options are 4mm Alcopanel FR (manufactured by IKT Corporation Co., Ltd, Seoul, Korea), 4mm Alucobond PLUS or 4mm Alucobond A2 (manufactured by 3A Composites, Germany). All 4mm ACP options consist of a 3mm core containing non-combustible fillers and two outer layers of 0.5mm aluminium. The visible surface of at least one of the outer layers of aluminium are factory applied and baked paint approximately 25 µm thick.

¹⁰ Building Regulations 1992 Clause A3 – Building importance levels.

¹¹ Acceptable Solution E2/AS1 table 22 up to 2.5kPa (ULS) and 3kPa (ULS) specific design. Wind loads above 1.55kPa ULS require a rigid building underlay. Where a wall structure (like concrete) is suitable as an air barrier a building underlay is not required.

³ The cladding system were tested to 3kPa / NZS4284 and will require verification testing under NZS4284 for pressures above 3kPa. [Link](#)

⁴ Alternative options available are Cassette Cladding 3AL system featuring solid aluminium (powder coated) or prefinished solid aluminium (like Mondoclad).

⁵ Acceptable Solution E2/AS1 table 21.

⁶ Acceptable Solution E2/AS1 table 22.

B1 Structure B1.3.1, B1.3.2, B1.3.3 (a) (c) (f) (h) (q): When installed as per the technical specifications will withstand wind pressures up to 3kPa (ULS)⁷ positive or negative to meet the requirements of B1.3.1, B1.3.2. and remain intact under seismic loads causing 30mm racking from vertical⁷ to meet the requirements of B1.3.3 (a) self-weight, (c) temperature, (f) earthquake, (h) wind and (q) creep.

B2 Durability B2.3.1 (b): Cassette Cladding aluminium extrusions are manufactured from 6060/T5 aluminium with all wall thicknesses exceeding 1.5mm. All cladding components therefore satisfy durability for exposure zones B, C, D & E⁷ to meet clause B2.3.1 (b) of 15 years.

Where coatings are applied anodizing is AA25 (25 microns) and powder coating to AAMA 2605 to satisfy requirements for exposure zones B, C, D & E⁶ of 15 years.

The ACP options¹ for cladding satisfy the 15 year durability requirement⁸.

E2 External Moisture E2.3.2, E2.3.3, E2.3.5: Cassette Cladding 4ACP through testing in accordance with AS/NZS4284:2008 verified compliance⁷.

C3 Fire affecting areas beyond the source C3.5: The ACP options¹ for Cassette Cladding 4ACP pass intermediate scale NFPA285 testing as cladding materials and assessments⁹. Suitability of any of the ACP options require review of the project specific fire engineering design by a suitably qualified person.

F2 Hazardous building materials F2.3.1: Cassette Cladding 4ACP complies with the requirements of the clause and will not present a health hazard when handled as described in the installation guide.

Design and installation instructions: Cassette Cladding 4ACP must be designed and installed in accordance with the relevant Cassette Cladding design and installation guidance documents.

- Cassette Cladding L Series design guide.
- Cassette Cladding L Series installation guide.
- Cassette Cladding D Series design guide. [Link](#)
- Cassette Cladding D Series installation guide. [Link](#)

Maintenance: Cassette Cladding 4ACP must be maintained in accordance with the relevant maintenance document.

- ACM maintenance guide. [Link](#)

Quality assurance: All Cassette Cladding components are sourced from manufacturers and suppliers with a proven track record that meets the required Kaneba purchasing protocols for quality and safety.

Product support: Cassette Cladding product support in New Zealand can be obtained from Kaneba at www.kaneba.co.nz.

Warranty: Cassette Cladding 4ACP has a product warranty of 15 years when designed, installed, and maintained in accordance with the information contained in this document.

- Cassette Cladding 4ACP warranty.

⁷ Facadelab Report No. 19-13 titled *Testing of multiple variants of cassette cladding system in accordance with AS/NZS 4284:2008 'Testing of Building Facades'* [Link](#)

⁷ Acceptable Solution E2/AS1 table 20.

⁸ In service history. Verification Report. [Link](#)

⁹ **Alcopanel FR:** BRANZ report FSR642 [Link](#). **NFPA 285** [Link](#) **Alucobond PLUS:** Omega Point Laboratories Project No. 15632-105515 [Link](#). **Alucobond A2:** NFPA285 [Link](#) BRANZ report FH10913-1 [Link](#)