



Aro®

Recessed Windows and Doors

Version 1.0 | July 2026



PREMIUM ARCHITECTURAL
& BUILDING SOLUTIONS

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INTRODUCTION

The Aro® Recessed Flashing System delivers a refined architectural finish for aluminium windows and doors, recessing joinery back to the framing line to create a clean, continuous shadow line from the outer cladding face. Engineered for use with JSC's 18.5mm VertiClad and RustiClad timber weatherboard systems, the Aro® system combines extruded aluminium flashings, thermoplastic stop ends, and precision adhesives into a complete, code-compliant solution. Designed to meet New Zealand Building Code requirements across structure, durability, and external moisture performance, it offers specifiers and builders a system they can trust, from design stage through to installation.

GENERAL

This guide covers the scope of use, product selection, compliance requirements, and design detailing for the Aro® Recessed Flashing System for aluminium windows and doors. The Aro® System enables aluminium window and door joinery to be recessed back to the framing line, creating a consistent shadow line from the outer cladding face.

The Aro® Recessed Flashing System is designed to be used with 18.5mm thick JSC timber weatherboards either in VertiClad or RustiClad systems. The system comprises of:

- JSC extruded aluminium flashings
- Thermoplastic stop ends
- Adhesives and sealants

Aro® Recessed Flashing System is designed to be installed with 45mm structural cavity battens: JSC-H 45mm x 45mm; JSC-V 45mm x 45mm; and JSC 70mm x 45mm.

RELATED DOCUMENTS

- Aro® Recessed Flashing System [Installation Guide](#)
- Aro® Recessed Flashing System [BPIR](#)
- Aro® Recessed Flashing System [Technical Drawings](#)

BUILDING CODE REGULATIONS

If designed and installed as per JSC technical documents, the Aro® Recessed Flashing System will meet the following provisions of the New Zealand Building Code (NZBC):

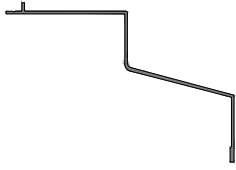
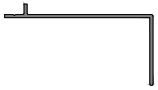
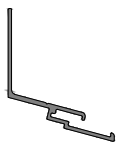
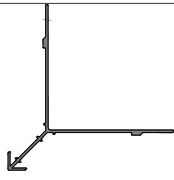
- **Clause B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.4 for the relevant physical conditions of B1.3.3 (a), (f), (h), (j), and (m)
- **Clause B2 Durability:** Performance B2.3.1(b) and B2.3.2(b)
- **Clause E2 External Moisture:** Performance E2.3.2, E2.3.5 (contributes to), E2.3.6 (contributes to), and E2.3.7
- **Clause F2 Hazardous Building Materials:** Performance F2.3.1

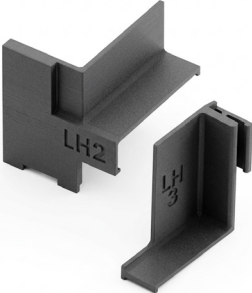
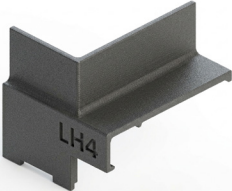
SCOPE AND LIMITATION OF USE

The Aro® Recessed Flashing System has been tested to E2/VM1 and is suitable for use in all New Zealand wind zones as defined in NZS3604/2011, including Very High wind zone. It is the specifier's responsibility to confirm that the cladding system, including wall underlay, flashings, and joinery, is specified appropriately for the project's wind zone and exposure classification in accordance with E2/AS1. It is the specifier's responsibility to ensure that the details in this specification are appropriate for the intended application.

Aro® Recessed Flashing System must be installed by a suitably qualified and experienced trade person. Where Restricted Building Work (RBW) applies, the installer shall be a Licensed Building Practitioner (LBP) or supervised by an LBP.

SYSTEM COMPONENTS

FLASHING CODE	PROFILE	DESCRIPTION
JSCFL-19		- Window Sill Flashing 5.85m long - Mill finish or powder coated black
JSCFL-23		- Door Sill Flashing 5.85m long - Mill finish or powder coated black
JSCFL-20		- Head Flashing - Part 1 5.85m long - Mill finish or powder coated black
JSCFL-12		- Head Flashing - Extension 5.85m long - Mill finish or powder coated black
JSCFL-21		- Inner Jamb Flashing 5.85m long - Mill finish or powder coated black
JSCFL-22		- Jamb Flashing - J42/TMT42 moulding 5.85m long - Mill finish or powder coated black
JSCFL-14		- Cavity closer - Head details 5.85m long - Mill finish or powder coated black
JSCFL-31		- Corner Flashing / Jamb Flashing 5.85m long - Mill finish or powder coated black
JSCFL-32		- Jamb Trim Flashing 5.85m long - Mill finish or powder coated black

STOP END CODE	PROFILE	DESCRIPTION
JSCHS-01	 A black, L-shaped profile with a flange on one side and a vertical lip on the other. The letters 'LH' are embossed on the vertical lip.	Head stop end set (2 pieces in total: 1 piece left-hand side and 1 piece right-hand side)
JSCSS-02	 Two black profiles. The first is an L-shaped profile with 'LH2' embossed on it. The second is a U-shaped profile with 'LH3' embossed on it.	Window sill stop end set (4 pieces in total: 2 pieces left-hand side and 2 pieces right-hand side)
JSCDSS-04	 A black, L-shaped profile with a flange on one side and a vertical lip on the other. The letters 'LH4' are embossed on the vertical lip.	Door sill stop end set (2 pieces in total: 1 piece left-hand side and 1 piece right-hand side)

SURFACE FINISH

Aro® Recessed Flashings are available powder coated in black as a standard stocked option, or mill finished, allowing flashings to be matched to window and door joinery or other design elements. Mill finish flashings are available for projects where the specifier intends to apply a custom powder coat after fabrication. All installed flashings must be in a finished, powder coated condition prior to installation. JSC recommends Dulux Duratec® powder coating for durability and corrosion resistance.

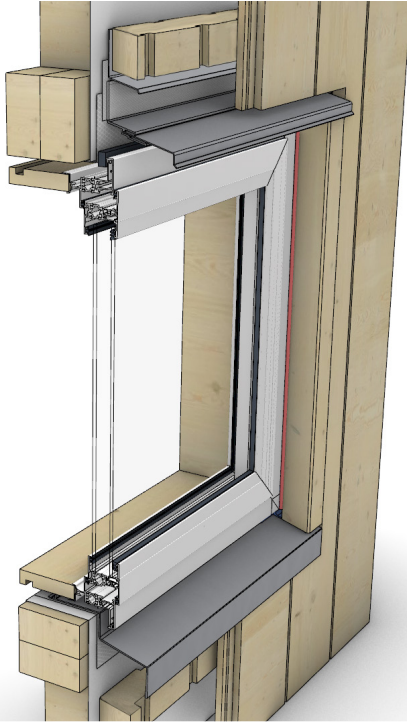
Duratec powder coating is not suitable for use within 10 metres of the high tide mark or in strongly acidic or caustic environments (pH outside 5–9), or where flashings may be exposed to chemically treated water such as pool or spa environments.

For more information visit www.dulux.co.nz

JAMB FINISH OPTIONS

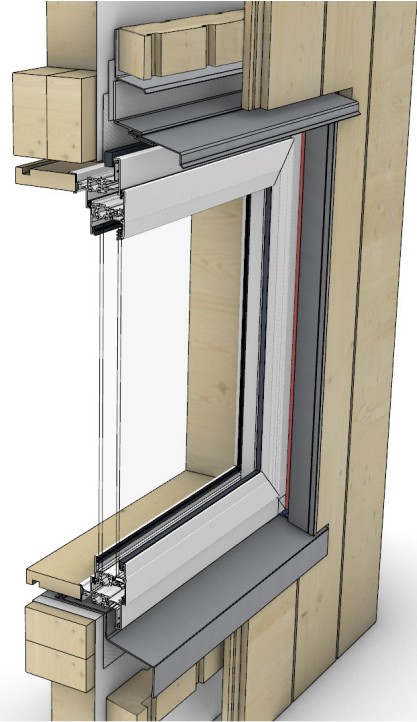
The Aro® Recessed Flashing System offers two jamb finish options. The appropriate option should be selected at design stage as it determines the flashing components required.

TIMBER JAMB



Timber Jamb: JSCFL-22 Jamb Flashing used in conjunction with J42/TMT42 timber moulding.

ALUMINIUM JAMB



Aluminium Jamb: JSCFL-31 Arrow Mitre Corner Flashing and JSCFL-32 Jamb Trim Flashing, fixed with 1mm UHB tape.

DESIGN REQUIREMENTS

STRUCTURE AND FRAMING

The performance and easy installation of the flashing system rely on the substrate. Aro® Recessed Flashing system is designed for timber wall framing compliant with [NZS 3604:2011](#). It may also be suitable for other substrates - please contact JSC to discuss your specific project requirements.

The Aro® flashing system was developed to be used in conjunction with JSC 45mm Structural Cavity Battens. [JSC Structural Cavity Batten Fixing Guide](#).

Timber framing must be within the framing tolerances of [NZS 3604:2011](#) Section 2.2 and Table 2.1. For specific requirements relating to support for timber weatherboard cladding, refer to Sections 8 and 11 of [NZS 3604:2011](#).

If it is an existing building, the primary structure must be suitable for the intended building work.

WALL UNDERLAY

Wall underlay must comply with [E2/AS1 Table C.2.1.1](#) and [E2/AS1 9.1.6](#). Alternatively, a wall underlay with a Product Certificate (CodeMark) or a BRANZ Appraisal is acceptable provided the conditions of use and scope comply.

Wall underlays (flexible or rigid) shall have a compliant and compatible flexible flashing tape applied to head and sill framing and opening reveals in accordance with [E2/AS1 4.2.12](#) and [9.1.4](#).

CAVITY BATTENS

JSC-H 45×45, JSC-V 45×45 and JSC 70×45 Structural Cavity Battens are structural cavity battens that allow additional options to create deeper window reveals and other design elements. Refer to [JSC Structural Cavity Batten Fixing Guide](#) for more information on spacings and fixings.

For information about the structural cavity battens installation refer to [JSC VertiClad Installation Guide](#) and [JSC RustiClad Installation Guide](#).

Where required, JSC structural cavity battens may be machined down by up to 5mm to accommodate flashing depth at the opening perimeter.

JOINERY

Windows and door joinery to be aluminium framed and complying with SNZ TS 4211:2022 - Specification for performance of windows.

The joinery flange must provide a minimum 5mm cover over the JSCFL-21 inner jamb flashing. Flange sizes and thicknesses vary between manufacturers. Allow 8–10mm sealant joint width at jambs between the joinery flange and the outer jamb flashing.

FLEXIBLE AIR SEAL

A continuous and flexible air seal must be installed to the interior perimeter of all window and door openings to ensure compliance with Clause [9.1.5 of E2/AS1](#). This is critical to achieving an airtight, and weather-resistant joinery installation.

critical dimensions

All critical dimensions, clearances, and interface details for the Aro® Recessed Flashing System are shown in the JSC technical drawings. These drawings must be read in conjunction with this guide and the Installation Guide. Refer to the Technical Drawing Index in the Specification Information section for the full set of available details.

SPECIFICATION INFORMATION

RECESSED WINDOWS ACCESSORIES (NOT SUPPLIED BY JSC)

Wall Underlay (Flexible or Rigid)

- To comply with [E2/AS1 Table C.2.1.1](#) or
- Wall underlays covered by CodeMark or a BRANZ Appraisal used within the scope
- Installed and handled per manufacturer's specification

Flashing Tape

- To comply with [E2/AS1 Paragraph 4.2.12](#) or
- Product with a CodeMark or a BRANZ Appraisal used within the scope
- To be compatible with wall underlay

Flashing Fixings

- Materials to comply with [E2/AS1 Table C.1.1.1B](#) and [Table C.1.1.1C](#)
- Stainless steel

Other Fixings

- Any other fixing shall comply with [NZS 3604:2011](#) for timber framing

Bonding

- Stop ends are bonded to flashings using Sika Primer-3N, Sika Aktivator-205, and Sikaflex-11FC — refer to the [Installation Guide](#) for the full bonding procedure

DETAIL NUMBER	DETAIL TITLE
VS10-RW	VertiClad Recessed Window Head Detail
VS11-RW	VertiClad Recessed Window Sill Detail
VS12-RW	VertiClad Recessed Door Sill Detail
VS13-RW	VertiClad Recessed Window Jamb Right Hand Detail - Aluminium
VS14-RW	VertiClad Recessed Window Jamb Left Hand Detail - Aluminium
VS15-RW	VertiClad Recessed Window Jamb Right Hand Detail - Timber J42/TMT42
VS16-RW	VertiClad Recessed Window Jamb Left Hand Detail - Timber J42/TMT42
RC10-RW	RustiClad Recessed Window Head Detail
RC11-RW	RustiClad Recessed Window Sill Detail
RC12-RW	RustiClad Recessed Window Right Hand Jamb Detail - Aluminium
RC13-RW	RustiClad Recessed Window Left Hand Jamb Detail - Aluminium
RC14-RW	RustiClad Recessed Window Right Hand Jamb Detail - Timber J42/TMT42
RC15-RW	RustiClad Recessed Window Left Hand Jamb Detail - Timber J42/TMT42

This information is to be read in conjunction with the [Recessed Window Technical Details](#) and the Rusticlad and Verticlad System Installation Guidelines.

Maintenance requirements for powder coated flashings and sealant joints are outlined in the [Aro® Recessed Flashing System Maintenance guide](#).

FOR TECHNICAL DRAWINGS & OTHER CLADDING RELATED DOCUMENTS

See our full set of detailed information.

Visit the related website page using the URL below or scan the QR code to access.

[Recessed Windows webpage](#)



SCAN ME

Disclaimer: JSC provides this design guide to assist specifiers in understanding the Aro® Recessed Flashing System and its intended applications. It is the specifier's responsibility to confirm that the system is appropriate for the specific project conditions, including substrate, joinery selection, environmental exposure, and any third-party accessories or components not supplied by JSC. Where uncertainty exists, contact JSC technical support at TechHelp@jsc.co.nz.



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jsc.co.nz

TechHelp@jsc.co.nz | Sales@jsc.co.nz

FIND JSC ONLINE



AUCKLAND

(09) 412 2800
22 Sawmill Road
Riverhead

HAMILTON

0800 57 26 88
43 McKee Street
Pukete

WELLINGTON

0800 57 26 88
61 Seaview Road
Seaview

CHRISTCHURCH

(03) 348 9726
23 William Lewis Drive
Sockburn