

Certification Body:



ABN: 81 663 250 815

JASANZ Accreditation

No. Z4450210AK

PO Box 273,
Palmwoods Qld 4555
Australia

P: +61 7 5445 2199

www.cmicert.com.au

office@cmicert.com.au

Certificate Holder:



Lotus Folding Walls
& Doors Pty Ltd

ABN: 61 007 087 523

20-24 National Drive
Dandenong

South Melbourne,
VIC 3175

Ph: +613 9771 8200

W: www.lotusdoors.com.au

Certificate number: CM40171

THIS IS TO CERTIFY THAT

Lotus Glas-Stax Fineframe Bi-Fold Doors

Type and/or use of product:

Glazed Bi-Fold doors.

Description of product:

The Fineframe Bi-Fold Doors is a range of Aluminium framed glazing products with the FF65 stiles providing single glazing and the FF75 both single and double glazing. The frames are suitable for single glass thickness up to 19mm or Insulating Glass Unit (IGU) up to 25mm.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2022 (Amdt. 2)

	Volume One	Volume Two
Performance Requirement(s):	B1P1(1)&(2)(c) Structural reliability	H1P1(1)&(2)(c) Structural reliability
Deemed-to-Satisfy Provision(s):	F3D4(1)(b) Damp and Weatherproofing – Glazed assemblies	H1D8(1)(a)(ii) Glazing
	J4D6 Energy Efficiency – Walls and glazing – as applicable	H6D2(b)(ii) Energy Efficiency – External glazing – as applicable
State or territory variation(s):	J4D6 (NSW)	Not Applicable

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

- The Fineframe Bi-Fold Doors must be installed in accordance with the Lotus technical installation manuals [GS-FF65-AS2047](#), [GS-FF75-AS2047](#) and the document [Reinstate Waterproofing - Membrane Penetration Drawing V2.4](#).
- Fineframe Bi-Fold Doors must be manufactured with Grade A Safety Glass that is compliant with AS/NZS 2208.
- In Class 1 & 10 buildings, glazing must be determined in accordance with Part 8.4 of the ABCB Housing Provisions.
- Site specific compliance for Bushfire Construction must be provided to the relevant authority where required.
- The Lotus Fineframe Bi-Fold Doors are suitable for use up to and including N4 Wind speed regions only.
- Lotus Fineframe Bi-Fold Doors must only be designed, constructed and installed in compliant applications, and in accordance with AS 2047-2014 & AS 1288:2021.
- This Certificate of Conformity is applicable to products in the range that are representative in both maximum size and shape of the 2815mm height x 3630mm width assemblies tested with 100mm perimeter (refer A3).
- It is a requirement that installation shall be carried out by a suitably licenced trades person approved by Lotus Folding Walls and Doors Pty Ltd.
- The use of the certified product/system is subject to these Limitations and Conditions and must be read in conjunction with the Scope of Certification below.

Building classification/s:

Class 1,2,3,4,5,6,7,8,9 & 10


Glen Gugliotti – CMI



Don Grehan – Unrestricted Building Certifier

Date of issue: 15/10/2025

Date of expiry: 14/10/2028





Certificate of Conformity

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the Certificate Holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Only criteria as identified within this Certificate of Conformity can be used for CodeMark certification claims. Where other claims are made in a client's Installation Manual, Website or other documents that are outside the criteria on this Certificate of Conformity, such criteria cannot be used or claimed to meet the requirements of this CodeMark certification.

The NCC defines a Performance Solution as one that complies with the Performance Requirements by means other than a Deemed-to-Satisfy Solution. A Building Solution that relies on a CodeMark Certificate of Conformity that certifies a product against the Performance Requirements cannot be considered as Deemed-to-Satisfy Solution.

This Certificate of Conformity may only relate to a part of a Performance Solution. In these circumstances other evidence of suitability is needed to demonstrate that the relevant Performance Requirements have been met. The relevant provisions of the Governing Requirements in Part A of the NCC will also need to be satisfied.

This Certificate of Conformity is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate of Conformity is outside of this document's scope and the installation of the certified product will not be covered by this Certificate of Conformity.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

When using the CodeMark logo in relation to or on the product/system, the Certificate Holder makes a declaration of compliance with the Scope of Certification and confirms that the product is identical to the product certified herein. In issuing this Certificate of Conformity, CertMark International has relied on the experience and expertise of external bodies (laboratories and technical experts).

Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

As per page 1.

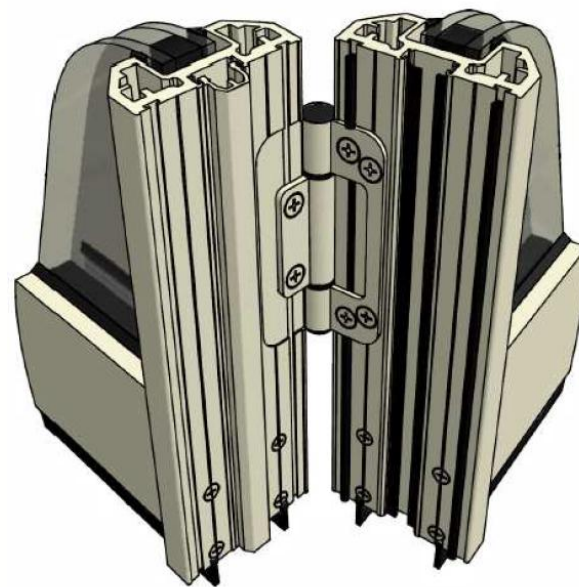
A2 Description of product

The Fineframe Bi-Fold Doors is a range of Aluminium framed glazing products with the FF65 stiles providing single glazing and the FF75 both single and double glazing. The frames are suitable for single glass thickness up to 19mm or Insulating Glass Unit (IGU) up to 25mm.



Glas-Stax FineFrame 65mm Stile

Source: Certificate Holder



Glas-Stax FineFrame 75mm

Source: Certificate Holder

A3 Product specification

Design Wind Pressures The limiting values of SLS and ULS Design Wind Pressures for maximum dimensions of 2815mm height x 3630mm width in 100mm perimeter.

Description	Structural (Deflections)	ULS (Strength)
FF65 – Centre	N4 Corner	
	N5 General	N2 Corner
FF65 – Indoor	C2 Corner	N3 General
	C3 General	Wu 1500 Pa
FF65 – Outdoor	Ws 1500Pa	
FF75 – Centre	N5 Corner	
	N6 General	N3 Corner
FF75 – Outdoor	C3 Corner	N4 General
	C4 General	Wu 2300 PA
FF75 – Indoor	Ws 2250 Pa	

Source: Acronem Consulting Australia Pty Ltd; Rep No: ACA – 180615; Lotus Fine Frame Bi-folding Door System dated 13/11/2020.

Ratings The Fineframe systems achieved the following ratings per AS 2047:1999 and Building Importance level 2 when tested for Structural Deflection, Air Infiltration, Water Penetration Resistance and Ultimate Strength; and have been compared with AS 2047:2014 by Acronem Consulting Australia Report No. ACA 180615 Appraisal dated 13/11/2020.

65mm Stile Bi-fold Door in 100mm Perimeter

House Ratings:

Regions A & B:	N3
Region C:	+640 and -640 Pa
Region D:	+500 and -500 Pa

Residential building ratings:

Region A:			
Straight track	+830 and -910 Pa	Region B	+670 and -670 Pa
Track to Outdoors	+830 and -910 Pa	Region C	+640 and -510 Pa
Track to indoors	+940 and -910 Pa	Region D	+500 and -500 Pa

Commercial building ratings:

Region A	+540 and -530 Pa
Region B	+530 and -530 Pa
Region C	+640 and -510 Pa
Region D	+400 and -400 Pa

Air Infiltration and Water Penetration Resistance Results:

Head track Straight Through:	250 Pa Water Penetration Resistance	Air conditioned & Non-airconditioned
Head track with Stack Inside:	300 Pa Water Penetration Resistance	Air conditioned & Non-airconditioned
Head track with Stack Outside:	250 Pa Water Penetration Resistance	Non-airconditioned only

- Notes:**
1. Ratings have been calculated using the 2002 issue of AS/NZS 1170.2.
 2. Ratings have only been calculated for BCA Building Importance Level 2. The client can re-calculate the ratings for other levels of importance from the test results if required.

Source: Ian Bennie and Associates, Test Report No. 2012-034-S1 dated 18/09/2012 & Acronem Consulting Australia Pty Ltd; Rep No: ACA – 180615; Lotus Fine Frame Bi-folding Door System dated 13/11/2020.

Ratings

75mm Stile Bi-fold Door in 100mm Perimeter – Centre Stack Configuration

House Ratings:

Regions A & B:	N4
Region C:	+830 and -980 Pa
Region D:	+770 and -770 Pa

Residential building ratings:

Region A	+830 and -1310 Pa
Region B	+830 and -1020Pa
Region C	+830 and -980 Pa
Region D	+770 and -770 Pa

Commercial building ratings:

Region A	+830 and -940 Pa
Region B	+830 and -940 Pa
Region C	+830 and -940 Pa
Region D	+770 and -770 Pa

Air Infiltration and Water Penetration Resistance Results:

Head track Straight Through:	250 Pa Water Penetration Resistance	Air conditioned & Non-airconditioned
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- Notes:**
1. Ratings have been calculated using the 2002 issue of AS/NZS 1170.2.
 2. Ratings have only been calculated for BCA Building Importance Level 2. The client can re-calculate the ratings for other levels of importance from the test results if required.

Source: Ian Bennie and Associates, Test Report No. 2012-034-S2C1 dated 29/11/2012 & Acronem Consulting Australia Pty Ltd; Rep No: ACA – 180615; Lotus Fine Frame Bi-folding Door System dated 13/11/2020.

Ratings

75mm Stile Bi-fold Door in 100mm Perimeter – Indoor Stack Configuration

House Ratings:

Regions A & B:	N4
Region C:	+980 and -980 Pa
Region D:	+770 and -770 Pa

Residential building ratings:

Region A	+1000 and -1310 Pa
Region B	+1000 and -1020Pa
Region C	+980 and -980 Pa
Region D	+770 and -770 Pa

Commercial building ratings:

Region A	+930 and -940 Pa
Region B	+930 and -940 Pa
Region C	+930 and -940 Pa
Region D	+770 and -770 Pa

Air Infiltration and Water Penetration Resistance Results:

Head track stacking to indoors:	300 Pa Water Penetration Resistance	Non-airconditioned only
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- Notes:**
1. Ratings have been calculated using the 2002 issue of AS/NZS 1170.2.
 2. Ratings have only been calculated for BCA Building Importance Level 2. The client can re-calculate the ratings for other levels of importance from the test results if required.

Source: Ian Bennie and Associates, Test Report No. 2012-034-S2C2-R1 dated 27/02/2018 & Acronem Consulting Australia Pty Ltd; Rep No: ACA – 180615; Lotus Fine Frame Bi-folding Door System dated 13/11/2020.

AS 2047-1999 Ratings 75mm Stile Bi-fold Door in 100mm Perimeter – Outdoor Stack Configuration

House Ratings:

Regions A & B: N4

Region C: +830 and -980 Pa

Region D: +770 and -770 Pa

Residential building ratings:

Region A +830 and -1310 Pa

Region B +830 and -1020 Pa

Region C +830 and -980 Pa

Region D +770 and -770 Pa

Commercial building ratings:

Region A +830 and -940 Pa

Region B +830 and -940 Pa

Region C +830 and -940 Pa

Region D +770 and -770 Pa

Air Infiltration and Water Penetration Resistance Results:

Head track stacking to outdoors: 250 Pa Water Penetration Resistance Air conditioned & Non-airconditioned

Notes: 1. Ratings have been calculated using the 2002 issue of AS/NZS 1170.2.

2. Ratings have only been calculated for BCA Building Importance Level 2. The client can re-calculate the ratings for other levels of importance from the test results if required.

Source: Ian Bennie and Associates, Test Report No. 2012-034-S2C3 dated 29/11/2012 & Acronem Consulting Australia Pty Ltd; Rep No: ACA – 180615; Lotus Fine Frame Bi-folding Door System dated 13/11/2020.

Window Energy Ratings

Fineframe 65mm Bi Folding Doors with 100mm Sill – Single Glazed

Window ID	Glazing ID	Glazing Description	Uw	Total Window - AFRC		
				SHGC	Tvw	Air Inf
LOT-001-01	6EA	6mm Energy Advantage	4.4	0.55	0.63	5.00
LOT-001-02	6EcAAB	6mm Eclipse Advantage Arctic Blue	4.5	0.29	0.30	5.00
LOT-001-03	6.38CPGy	6.38mm Comfort Plus Grey	4.3	0.39	0.30	5.00
LOT-001-04	6.38DLam	6.38mm Clear Dupont Laminate	6.2	0.63	0.68	5.00
LOT-001-05	6.38SxClr	6.38mm Saflex Clear Laminate	6.2	0.63	0.68	5.00

Source: Acronem Consulting Australia Pty Ltd; Rep No: ACA – 180615; Lotus Fine Frame Bi-folding Door System dated 13/11/2020.

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Window Energy Ratings

Glas-Stax Suite Fineframe 75mm Bi Fold Doors with 100mm Perimeter – Double Glazed

Window ID	Glazing ID	Glazing Description	Uw	Total Window - AFRC		
				SHGC	Tvw	Air Inf
LOT-009-01	6Clr/12/6Clr	6mm Clear / 12mm Air Gap / 6mm Clear	3.9	0.56	0.60	5.00
LOT-009-02	6Gy/12/6Clr	6mm Grey / 12mm Air Gap / 6mm Clear	3.9	0.36	0.28	5.00
LOT-009-03	6SpGy/12/6Clr	6mm SuperGrey / 12mm Air Gap / 6mm Clear	3.9	0.18	0.06	5.00
LOT-009-04	6SS08/12/6Clr	6mm SolarE Grey / 12mm Air Gap / 6mm Clear	3.6	0.12	0.06	5.00
LOT-009-05	6SoLEGy/12/6Clr	6mm SolTech / 12mm Air Gap / 6mm Clear	3.3	0.23	0.20	5.00
LOT-009-06	6SoIT/12/6Clr	6mm EnergyTech / 12mm Air Gap / 6mm Clear	3.3	0.37	0.43	5.00
LOT-009-07	6ET/12/6Clr	6mm Evantage Grey / 12mm Air Gap / 6mm Clear	3.3	0.49	0.55	5.00
LOT-009-08	6EVGy/12/6Clr	6mm EnergyTech SuperGreen / 12mm Air Gap / 6mm Clear	3.4	0.27	0.22	5.00
LOT-009-09	6ETSpGn/12/6Clr	6mm Evantage Clear / 12mm Air Gap / 6mm Clear	3.3	0.27	0.41	5.00
LOT-009-10	6EV/12/6Clr	6mm Sunergy Clear / 12mm Air Gap / 6mm Clear	3.4	0.44	0.47	5.00
LOT-009-11	6Sn/12/6Clr	6mm Sunergy Green / 12mm Air Gap / 6mm Clear	3.5	0.41	0.46	5.00
LOT-009-12	6SnGn/12/6Clr	6mm COOL-LITE SKN 163 II / 12mm Air Gap / 6mm Clear	3.5	0.27	0.38	5.00
LOT-009-13	6CLSKN163 II/12/6Clr	6mm Clear / 12mm Air Gap / 6mm EnergyTech	3.1	0.26	0.44	5.00
LOT-009-14	6Clr/12/6ET	6mm Solarplus TS21 on Clear / 12mm Air Gap / 6mm EnergyTech	3.3	0.53	0.55	5.00
LOT-009-15	6TS21/12/6ET	6mm Sunergy Clear / 12mm Air Gap / 6mm EnergyTech	3.3	0.16	0.13	5.00
LOT-009-16	6Sn/12/6ET	6mm Sunergy Green / 12mm Air Gap / 6mm EnergyTech	3.3	0.39	0.43	5.00
LOT-009-17	6SnGn/12/6ET	6mm Grey / 12mm Air Gap / 6mm EnergyTech	3.3	0.25	0.35	5.00
LOT-009-18	6Gy/12/6ET	6mm SuperGrey / 12mm Air Gap / 6mm EnergyTech	3.3	0.32	0.26	5.00
LOT-009-19	6SpGy/12/6ET	6mm SolTech / 12mm Air Gap / 6mm EnergyTech	3.3	0.14	0.05	5.00
LOT-009-20	6SoIT/12/6ET	6mm SolarE Grey / 12mm Air Gap / 6mm EnergyTech	3.2	0.35	0.40	5.00
LOT-009-21	6SoLEGy/12/6ET	6mm EnergyTech / 12mm Air Gap / 6mm EnergyTech	3.2	0.22	0.19	5.00
LOT-009-22	6ET/12/6ET	6mm Evantage Clear / 12mm Air Gap / 6mm EnergyTech	3.2	0.47	0.51	5.00
LOT-009-23	6EV/12/6ET	6.38mm Laminate Clear / 10mm Air Gap / 6mm clear	3.2	0.42	0.44	5.00
LOT-009-24	6.38VLamClr/10/6Clr	6.38mm ComfortPlus Clear / 10mm Air Gap / 6.38mm Saflex	3.9	0.53	0.59	5.00
LOT-009-25	6.38CPClr/10/6.38Sx	6mm Clear / 12mm Air Gap / 6mm Clear	3.4	0.48	0.56	5.00

Source: Acronem Consulting Australia Pty Ltd; Rep No: ACA – 180615; Lotus Fine Frame Bi-folding Door System dated 13/11/2020

A4 Manufacturer and manufacturing plant(s)

Lotus Folding Walls & Doors Pty Ltd
20-24 National Drive, Dandenong South,
Melbourne VIC 3175.

A5 Installation requirements

To be installed in accordance with the Lotus technical installation manuals [GS-FF65-AS2047](#); [GS-FF75-AS2047](#); [Reinstate Waterproofing - Membrane Penetration Drawing V2.4](#).

A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Structural Provisions A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
2. Thermal Provisions A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.
3. Weatherproofing Provision A5G3(1)(d)&(e). Reports from Accredited Testing Laboratories and a professional engineer.

B2 Reports

1. Acronem Consulting Australia Pty Ltd; Rep No: ACA – 180615; Lotus Fine Frame Bi-folding Door System, NCC 2019(Amdt. 1) Appraisal 201113; Dated 13/11/2020. This report provides compliance with B1P1(1)(2)(c), F3D4(1)(b), J4D6, H1P1(1)(2)(c), H1D8(1)(a)(ii), & H6D2(b)(ii) and validate the following reports:
 - a. Ian Bennie and Associates, Test Report No. 2012-034-S1; FineFrame 65 Stile Bi-Fold Door in 100mm perimeter prototype test to AS2047-1999; Dated 18/09/2012.
 - b. Ian Bennie and Associates, Test Report No. 2012-034-S2C1; FineFrame 75 Stile Bi-Fold Door in 100mm perimeter – Configuration 1 Centre Stack prototype test to AS2047-1999; Dated 29/11/2012.
 - c. Ian Bennie and Associates, Test Report No. 2012-034-S2C2-R1; FineFrame 75 Stile Bi-Fold Door in 100mm perimeter – Configuration 2 – Indoor Stack prototype test to AS2047-1999; Dated 27/02/2018.
 - d. Ian Bennie and Associates, Test Report No. 2012-034-S2C3; FineFrame 75 Stile Bi-Fold Door in 100mm perimeter – Configuration 3 – Outdoor Stack prototype test to AS2047-1999; Dated 29/11/2012.
2. Acronem Consulting Australia Pty Ltd; Acronem Lotus FineFrame CMI-CAR-2506-06 Letter 191010; Dated 10/10/2019 This report provides compliance with H1D8(1)(a)(ii).

The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.