



SUMMERMORE Pty Ltd ABN 42 108 898 433
PO Box 1671,
Browns Plains BC,
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Tel: 07 3800 0973 Fax: 07 3800 1860

Wednesday, 4 November 2020

Mr Greg Meyer
Modinex
150 Toongarra Road
Ipswich
Queensland 4305

Dear Greg

RE: Report on Viroc Cladding Fixing Requirements

We have pleasure in presenting the enclosed report and certification to you.

Should you have any queries with regard to the contents of the report, please do not hesitate to contact us.

Yours Faithfully

Ron Bell
Summermore Pty Ltd



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RE: Report on Viroc Cladding Fixing Requirements

The purpose of this letter is to certify the capacity of the Viroc Cladding Fixing Requirements.

1.0 Description

The Viroc Cladding is a composite cladding material. The manufacturers recommended fixing is via 30 millimetre long 10 or 12 gauge stainless steel screws.

Certification

We, **Summermore Pty Ltd**, being Registered Structural and Civil Engineers, hereby confirm that the Viroc Cladding Fixing Requirements, as shown in the Appendix to this report have been designed in accordance with widely accepted engineering principles and the referenced codes of practice.

Building Code of Australia 2019

AS/NZS 1170.0:2002	Structural Design Actions Part 0—General Principles
AS/NZS 1170.1:2002	Structural Design Actions Part 1—Permanent, Imposed & Other Actions
AS/NZS 1170.2:2011	Structural Design Actions Part 2—Wind Actions
AS1720.1:2010	Timber Structures—Part 1: Design Methods
AS1684:2010	Residential Timber Framed Construction
AS4600:2018	Cold Formed Steel Structures

Summermore Pty Ltd accepts no responsibility for information that has not been expressly identified as part of this certification.

If we can be of any further assistance in this matter, please do not hesitate to contact this office.

Certified by

Ronald Bell
FIEAust (891940), CMEngNZ (1027605), CPEng, NER, APEC Engineer, IntPE(Aus).
Director
Summermore Pty Ltd



REGISTERED
Building Practitioner



Viroc Cladding Fixing Requirements

COMPILED FOR

Modinex

BY SUMMMERMORE PTY LTD

04NOV2020

1.0 Introduction:

The Viroc Cladding is a composite cladding material. The aim of this report is to determine the capacity of the Viroc Cladding Fixing Requirements as it relates to the requirements of the Building Code of Australia 2019.

2.0 Analysis Method:

The Viroc Cladding Fixing Requirements were analysed in accordance with the relevant Australian Standards. The capacity of the Viroc Cladding Fixing Requirements is shown in the capacity tables contained in the Appendix to this report.

3.0 Conclusion:

The Viroc Cladding is a composite cladding material. The capacities are provided in the appendix and are summarized here.

The fixings rows or columns (depending on the direction of the substrate battens) are to be spaced at not greater than 600 millimetres.

The analysis results show that the Viroc Cladding has a maximum fixing spacing within the line of fixings of 600 millimetres for general cladding areas and 300 millimetres for areas within 1200 millimetres of corners for wind classifications up to and including $V_{st, \beta} = 74 \text{ m/s}$.

The analysis does not consider impact resistance as required for cyclonic areas under AS/NZS1170.2. It is recommended that this is tested.

APPENDIX A

Fixing Requirements Capacity Table

A1 Test Data Line Load

The following table summarises the fixing requirements.

Maximum Spacing of Fasteners (mm)										
Substrate Batten	$V_{st,\delta} = 34^{m/s}$		$V_{st,\delta} = 40^{m/s}$		$V_{st,\delta} = 50^{m/s}$		$V_{st,\delta} = 61^{m/s}$		$V_{st,\delta} = 74^{m/s}$	
	General	Corners	General	Corners	General	Corners	General	Corners	General	Corners
JD3	600	300	600	300	600	300	600	300	600	300
JD4	600	300	600	300	600	300	600	300	600	300
JD5	600	300	600	300	600	300	600	300	600	300
J3	600	300	600	300	600	300	600	300	600	300
J4	600	300	600	300	600	300	600	300	600	300
0.55mm BMT LGS	600	300	600	300	600	300	600	300	600	300
0.75mm BMT LGS	600	300	600	300	600	300	600	300	600	300
0.95mm BMT LGS	600	300	600	300	600	300	600	300	600	300