

**Ian Bennie & Associates**

**Test Report No. 2022-031-S1**

**VALMOND & GIBSON INTERLOQ RAINSCREEN  
CLADDING PANELS - Cavity wall system**

**Specimen tests by the methods of AS/NZS4284**

**To the requirements of NCC 2019 verification  
methods FV1 & V2.2.1**

**For**

**VALMOND & GIBSON**

**May 2022**



Accredited Laboratory No. 2371  
Accredited for compliance with ISO/IEC 17025 - Testing



**Conclusions:**

The Interloq Rainscreen cladding panels cavity wall system test specimen passed all the compliance requirements of the NCC-2019 Weatherproofing Verification Methods FV1 & V2.2.1 at the nominated test parameters. Complete detail of all tests conducted are given in the body of this report

**Disclaimer:**

Sample information including material properties and detailing was supplied by the client and no verification of actual construction details or sampling of production stock could be performed. The test results contained herein apply to the sample as tested. Ian Bennie & associates accept no liability for claims of losses, expenses, damages and costs arising as a result of the use of product(s) referred to in this report.

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Ian Bennie & Associates

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Ian Bennie 6<sup>th</sup> May 2022

Valmond & Gibson

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Authorised Signatory

## **Water Penetration Test Results**

Nominated Serviceability limit state pressures:

### **Static pressure water test: 450 Pa**

No leakage through the cladding system was observed during the test.

### **Cyclic pressure water test: 450 Pa - 900 Pa**

No leakage through the cladding system was observed during the test.

### **Static pressure water test with 6mm penetrations in cladding: 450 Pa**

No leakage through the cladding system was observed during the test.

### **Cyclic pressure water test with 6mm penetrations in cladding: 450 Pa - 900 Pa**

No leakage through the cladding system was observed during the test.

### **Static pressure water test with internal lining removed: 50 Pa**

No leakage through the cladding system was observed during the test. After the test the building wrap was cut away and there was evidence of water having penetrated cladding boards however there was no pooling of water on horizontal surfaces.

**APPENDIX A TEST PROCEDURES & METHODS FOR AS/NZS:4284-  
2008  
& NCC-2019 FV2.2.1**

**Test Sequence**

NCC- 2019 Weatherproofing test procedures were conducted in accordance with Australian Standard AS/NZS 4284:2008, Testing of building facades, as detailed in Appendix A in the following sequence:

**Static pressure Pre loading.**

Positive and negative serviceability limit state pressures were applied to the external face of the specimen for periods of 1 minute each.

**Static pressure water test.**

A water penetration test was then carried out in accordance with Clause 8.5 of AS/NZS 4284:2008 at a static pressure of 30% of  $W_s$  for a period of 15 minutes.

**Cyclic pressure water test.**

A water penetration test was then carried out in accordance with Clause 8.6 of AS/NZS 4284:2008 at the cyclic pressures of: 30% -60% of  $W_s$  for 5 minutes.

**Cyclic pressure water test with 6mm penetrations in cladding.**

6mm diameter holes were inserted in the external face of the specimen at the following locations:

- Wall/window joint at 3/4 height of the window
- Immediately above the window
- Through the external sealing of the vertical and horizontal control joints
- Above the meter box and the downpipe penetrations.

Water penetration tests were then carried out in accordance with Clause 8.6 of AS/NZS 4284:2008 at the Static and Cyclic pressures as detailed above.

**Static pressure water test with internal lining removed.**

The internal acrylic lining of the sample was removed and a static water penetration test was then carried out in accordance with Clause 8.5 of AS/NZS 4284:2008 at a static pressure of 50 Pa for a period of 15 minutes.

*Test Equipment*

Water was applied via sprays located 300 mm away from the outdoor face of the test specimen. Water flow rate to the sprays was measured with a calibrated pressure gauge to an accuracy of 2% and was maintained at a level of 0.05 l/s.m<sup>2</sup> over the test area throughout the test. Water application was maintained continuously and water was

observed to evenly cover the exterior face of the test specimen. All pressure transducers are calibrated against NATA certified manometers and may be taken to have a measurement accuracy of 1%.

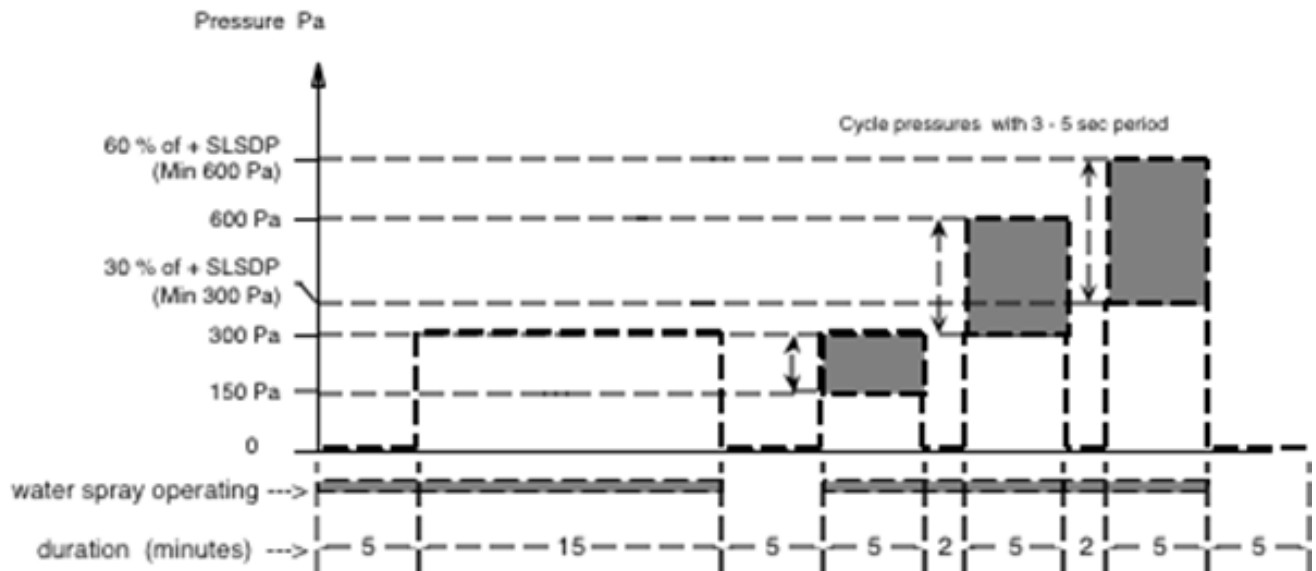
### Water Penetration Test Parameters as stated in AS/NZS:2484-2008

#### Test pressures:

Static 30% of  $W_s$  (at least 300 Pa) duration = 15 minutes  
Cyclic 15% - 30% of  $W_s$  duration = 5 minutes  
          20% - 40% of  $W_s$  duration = 5 minutes  
          30% - 60% of  $W_s$  duration = 5 minutes

**Water application rate:** 0.05 L/m<sup>2</sup>.s

#### Water penetration test sequence



#### Test Requirement:

As per the Compliance requirements of NCC-2019 Weatherproofing Verification Methods V2.2.1 and FV1 that are given in Appendix B.

## **APPENDIX B – COMPLIANCE REQUIREMENTS**

### **Applicability to be verified with specifier**

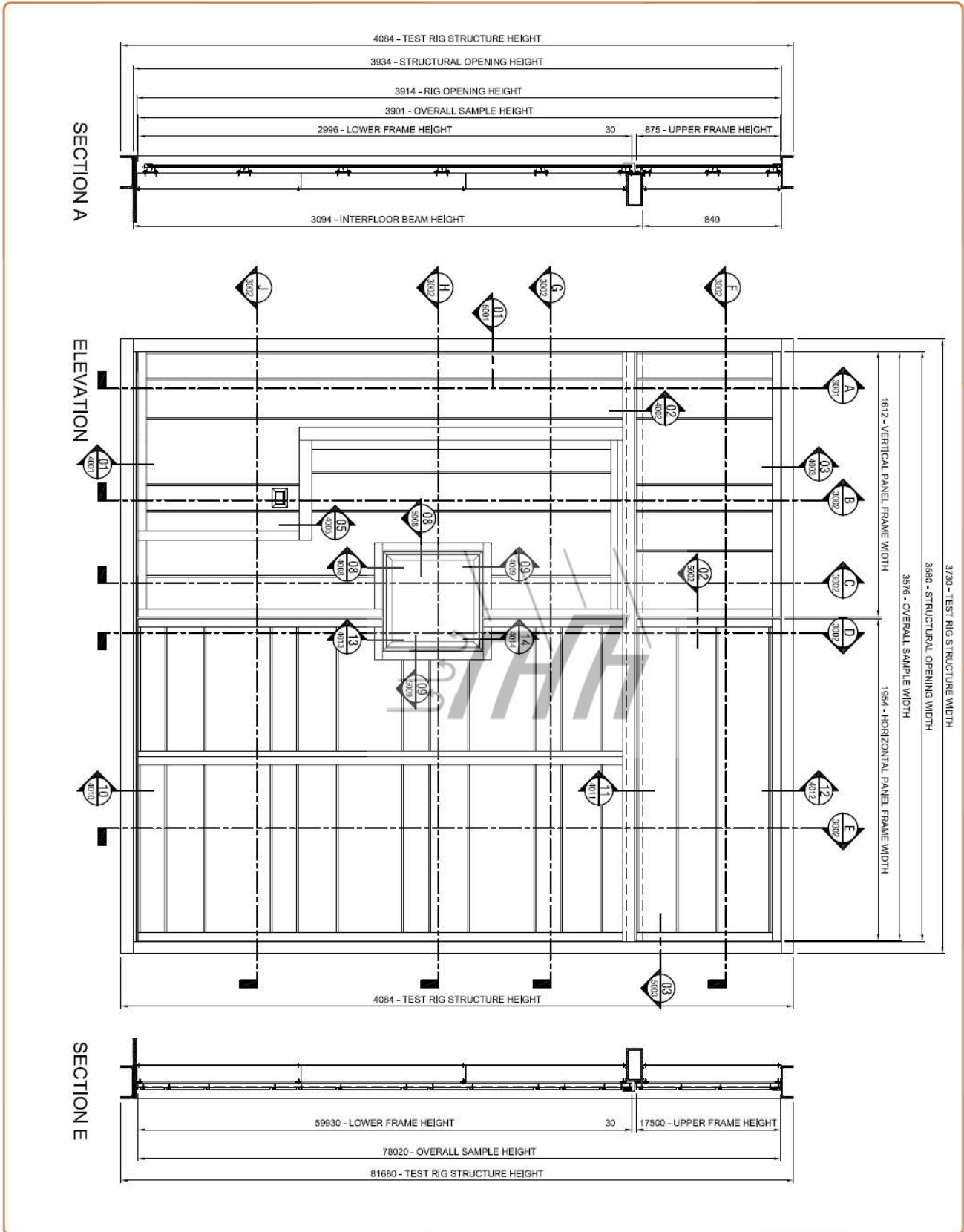
**These results are applicable for the weather proofing of an *external wall* that;**

- i.) Has a risk score of 20 or less (tables FV1 & V2.2.1 a)
- ii.) Is not subjected to a ULS of more than 2.5kPa
- iii.) Includes only windows that comply with 2047

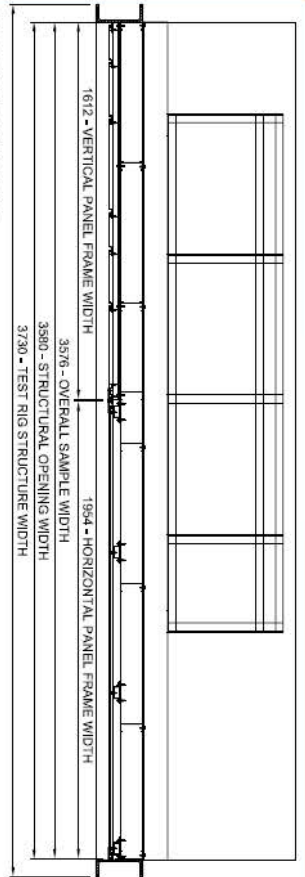
#### **Compliance requirements:**

- (i) A direct fix cladding wall and unique wall are verified for compliance with FP1.4 if there is no presence of water on the inside surface of the facade.
- (ii) A cavity wall is verified for compliance with FP1.4 if there is no presence of water on the removed surface of the cavity, except that during the simulation of the failure of the primary weather-defense or sealing, water may—
  - (A) transfer to the removed surface of the cavity due to the introduced defects (6 mm holes); and
  - (B) contact, but not pool on, battens and other cavity surfaces.

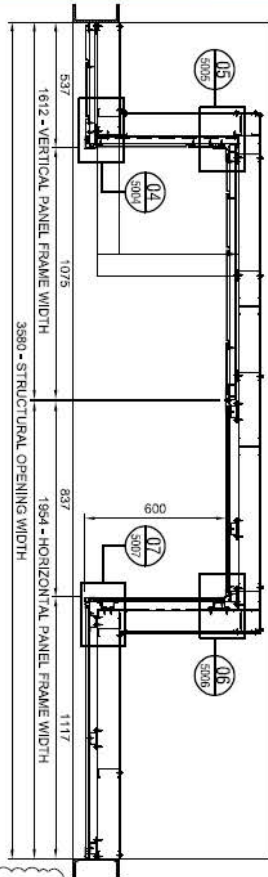
# APPENDIX C – DETAILS OF THE TEST SPECIMEN



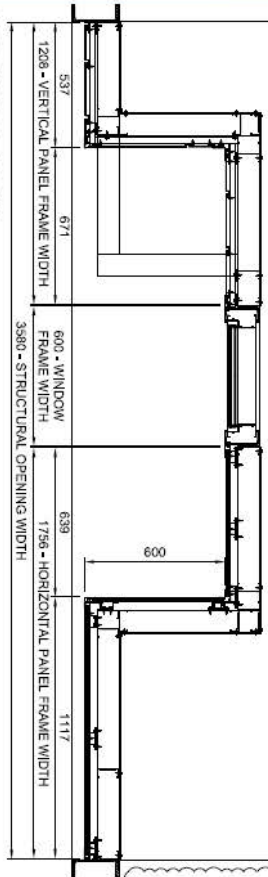
<p><b>AS TESTED</b></p>	<p>TEST RIG TEST PRESSURES: SLS (1) = -1800 Pa SLS (2) = -500 Pa</p> <p>CLADDING SYSTEM: INTERFLOOR PANELS: 100% ISOGLASS 81040 EXTENSIONAL ALUMINUM EXTRUSION: INTERFLOOR CLADDING TEST</p> <p>INTERFLOOR ALUM EXTRUSION: POWDERCOAT</p> <p>WALKHOLD &amp; GIBSON 1300 097 898</p> <p>TEST SPECIMEN ELEVATION</p> <p>1:30 TR-6-3001 01</p>
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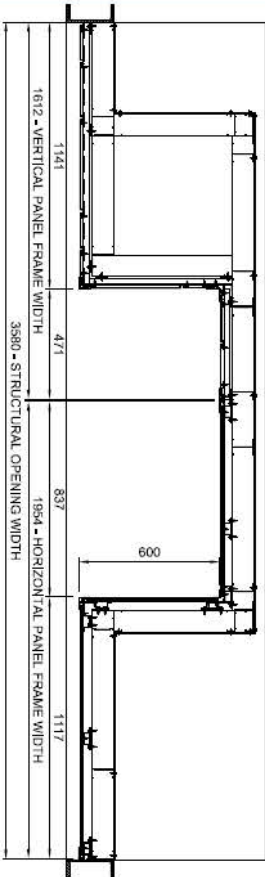
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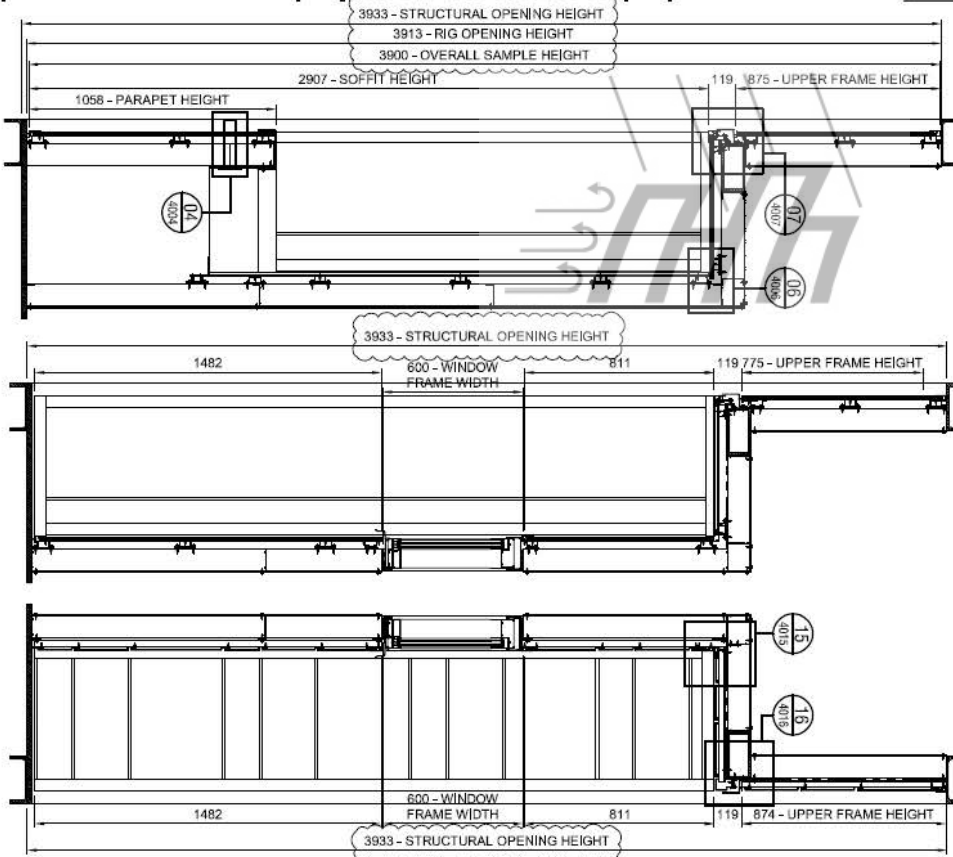
PLAN SECTION G



PLAN SECTION H



PLAN SECTION J

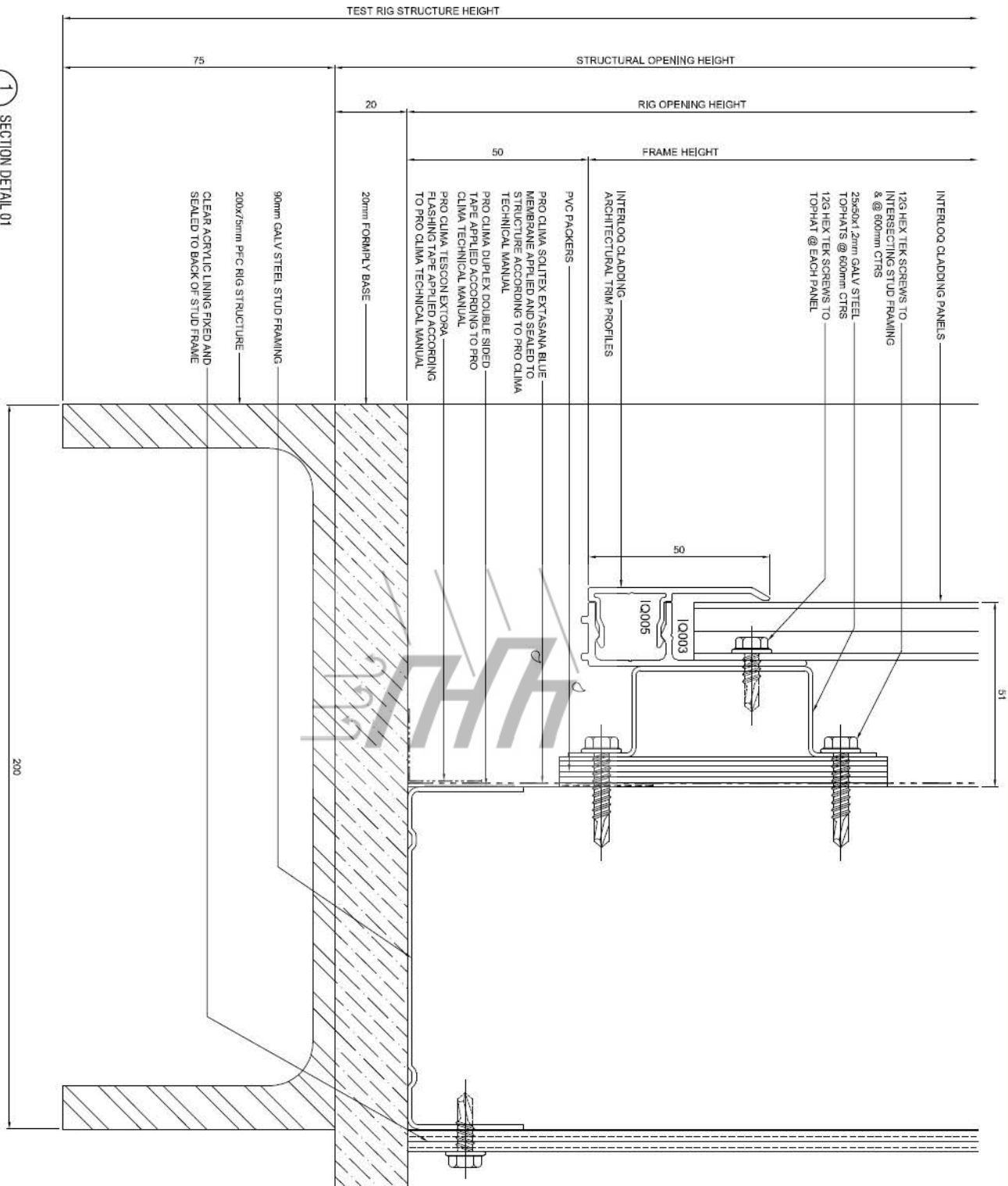


SECTION B

SECTION C

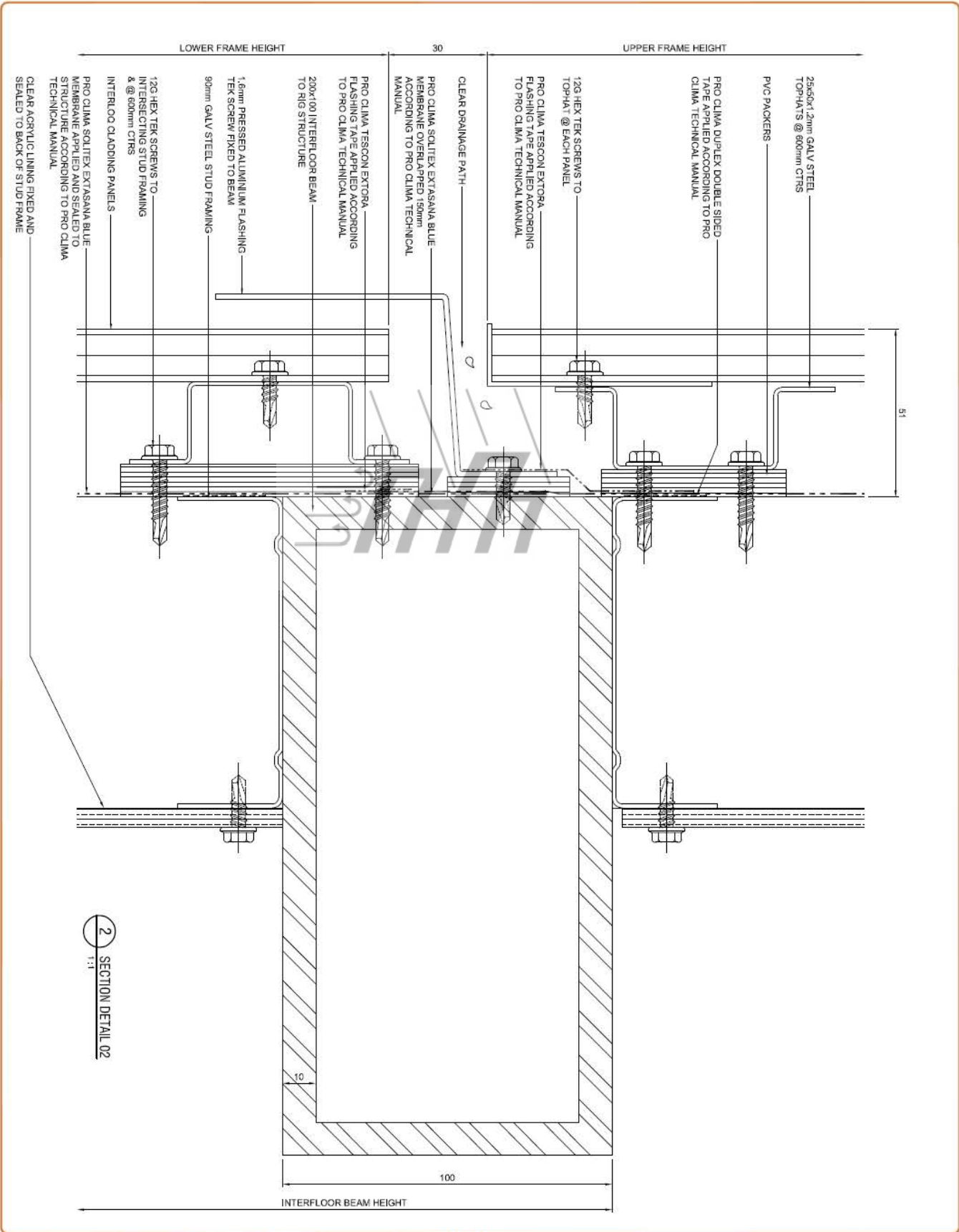
SECTION D

<p><b>AS TESTED</b></p>		<p><b>VALHOND &amp; GIBSON</b> 1800 877 788</p>	
<p>INTERLOG ALUM EXTRUSION POWDERCOAT</p>		<p>INTERLOG CLADDING TEST</p>	
<p>TEST SPECIMEN PLAN &amp; SECTION VIEWS</p>		<p>1720 TR-3-3002 01</p>	

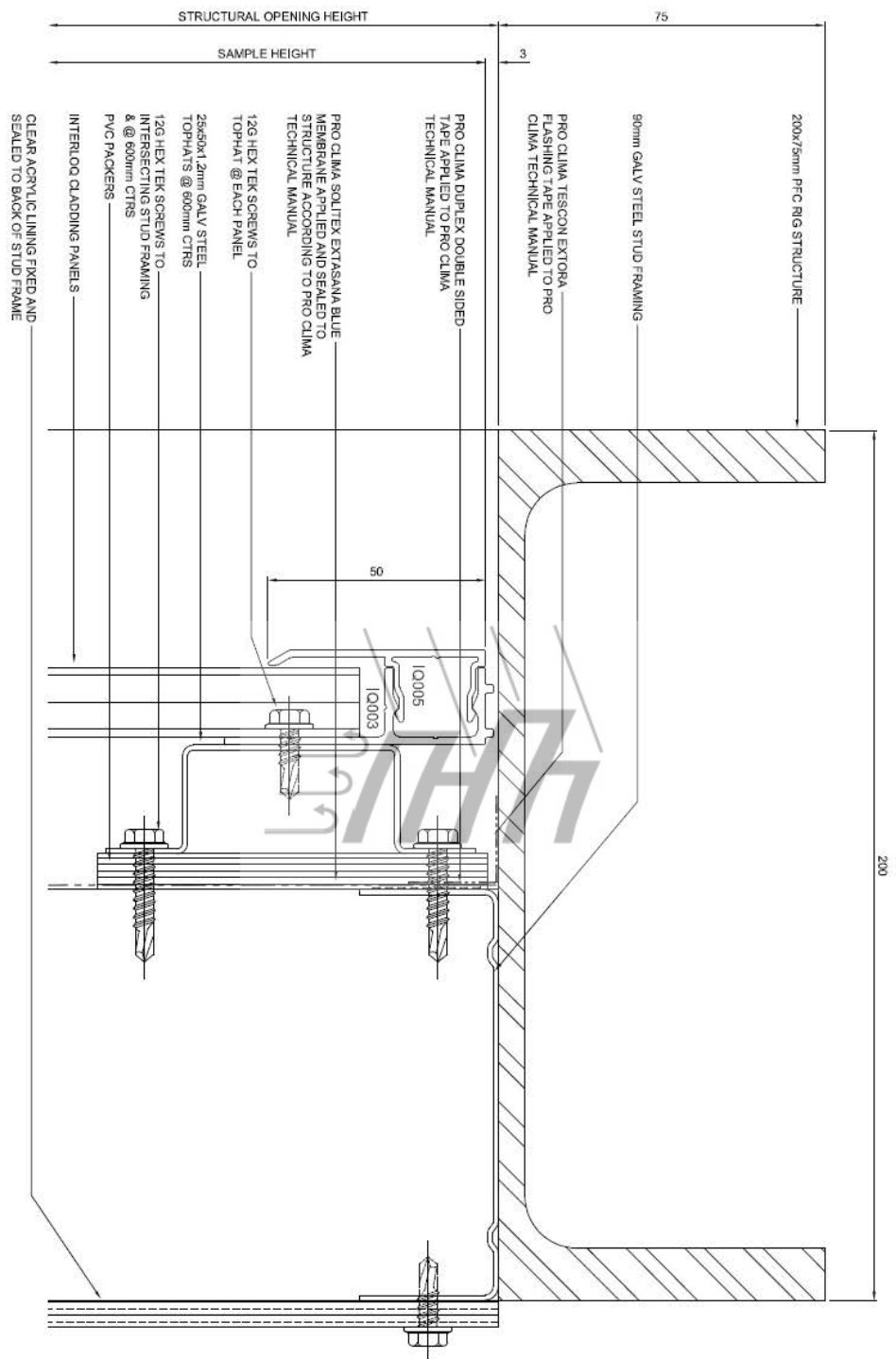


1 SECTION DETAIL 01  
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<p>POWDERCOAT</p>	
<p>VALHORN &amp; GIBSON</p>	
<p>INTERLOQ CLADDING TEST</p>	
<p>TEST SPECIMEN DETAILS</p>	
<p>TR-6-401</p>	
<p>01</p>	



<p><b>AS TESTED</b></p>	
<p>VALMOND &amp; GIBSON 1580 097 898</p>	
<p>INTERLOQ CLADDING TEST</p>	
<p>TEST SPECIMEN DETAILS</p>	
<p>1:1</p>	<p>TR-4-4002</p>
<p>01</p>	<p>01</p>



3 SECTION DETAIL 03  
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**AS TESTED**

TEST SPECIMEN DETAILS

INTERLOQ CLADDING TEST

VALMOND & GIBSON

1810 697 998

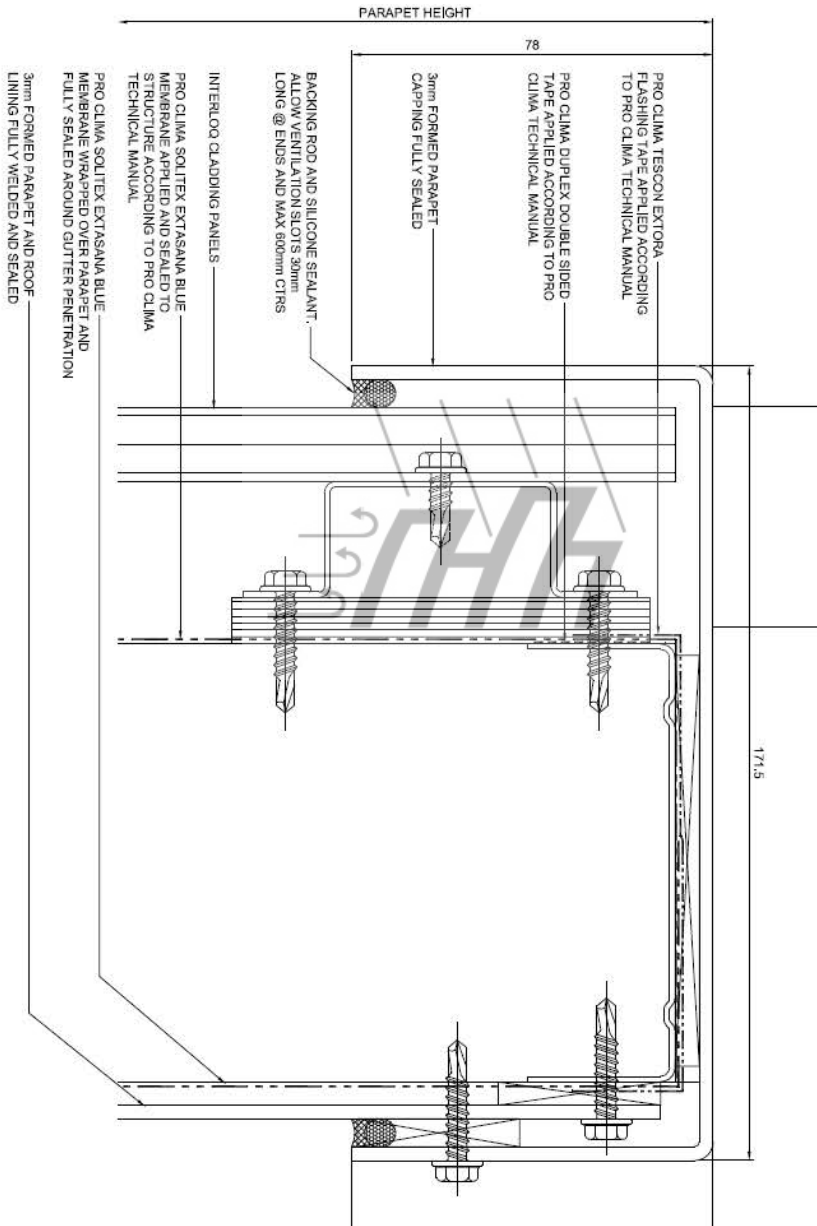
POWDERCOAT

INTERLOQ ALUM EXTRUSION

TEST REPORT: TR-6-4003

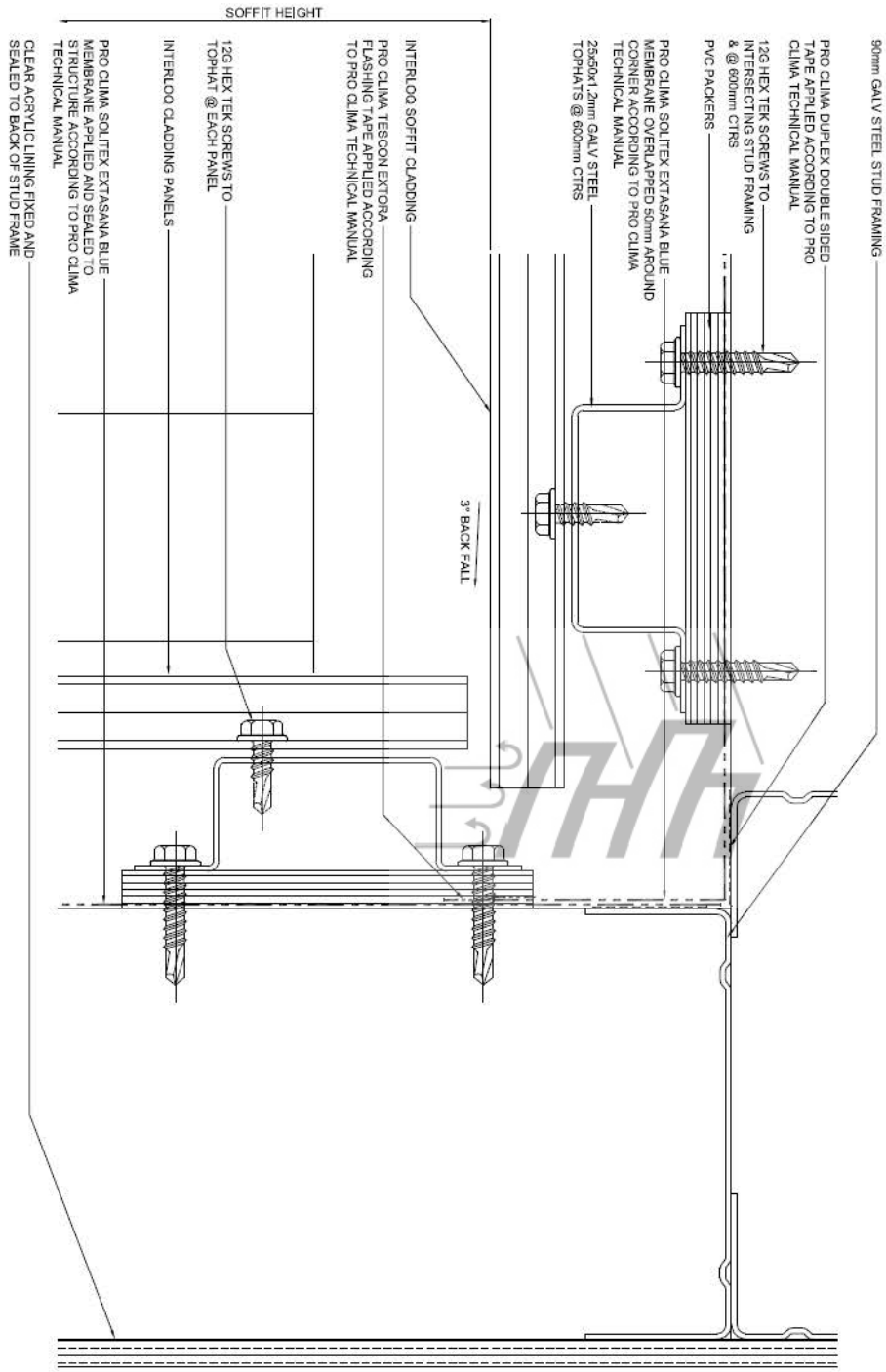
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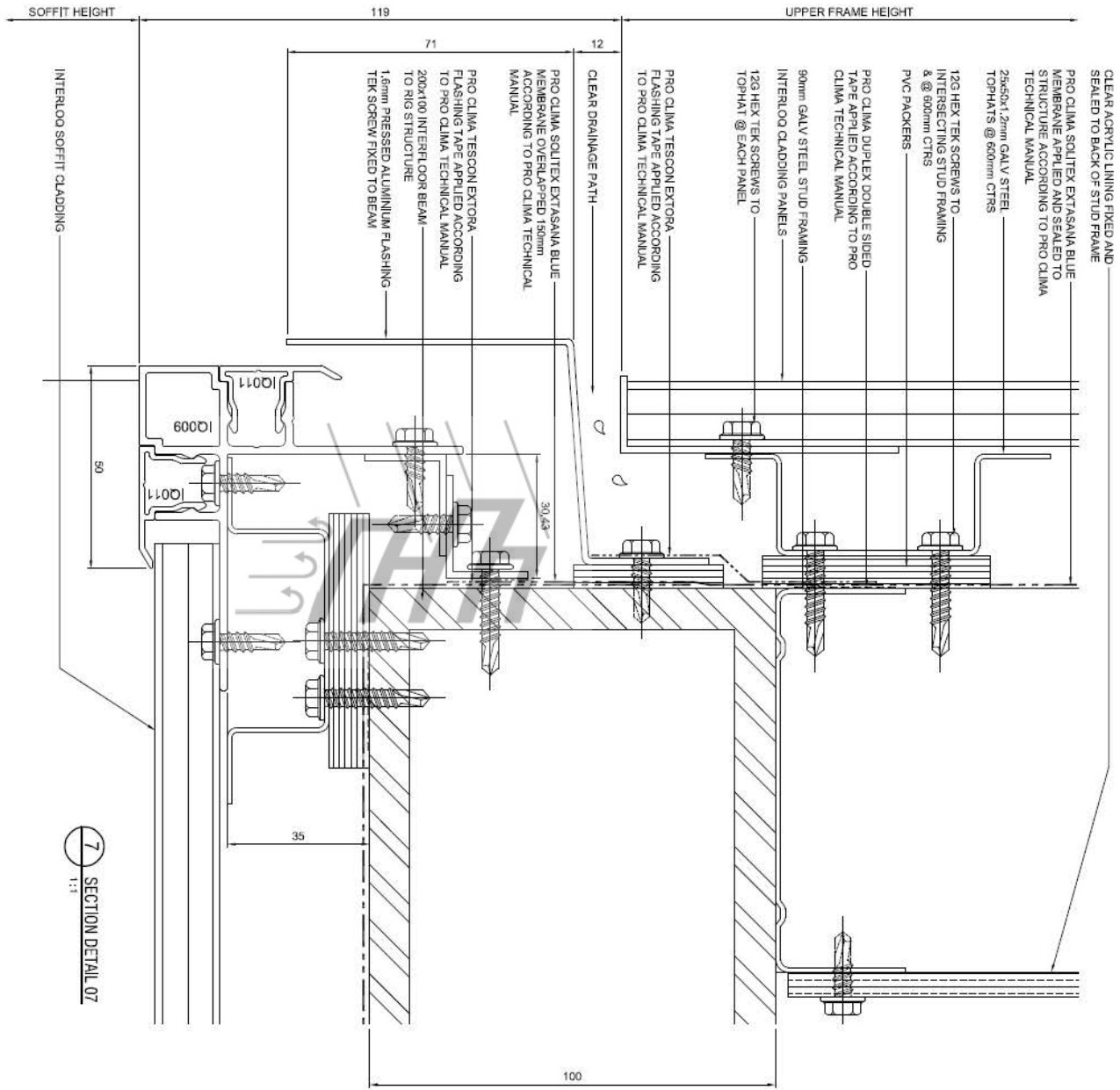
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<p>VALMOND &amp; GIBSON 1380 897 788 info@valmond.com.au www.valmond.com.au</p>	
<p>INTERLOQ ALUM EXTRUSION POWDERCOAT</p>	
<p>TEST SPECIMEN DETAILS</p>	
<p>1:1 TR-6-4005 01</p>	



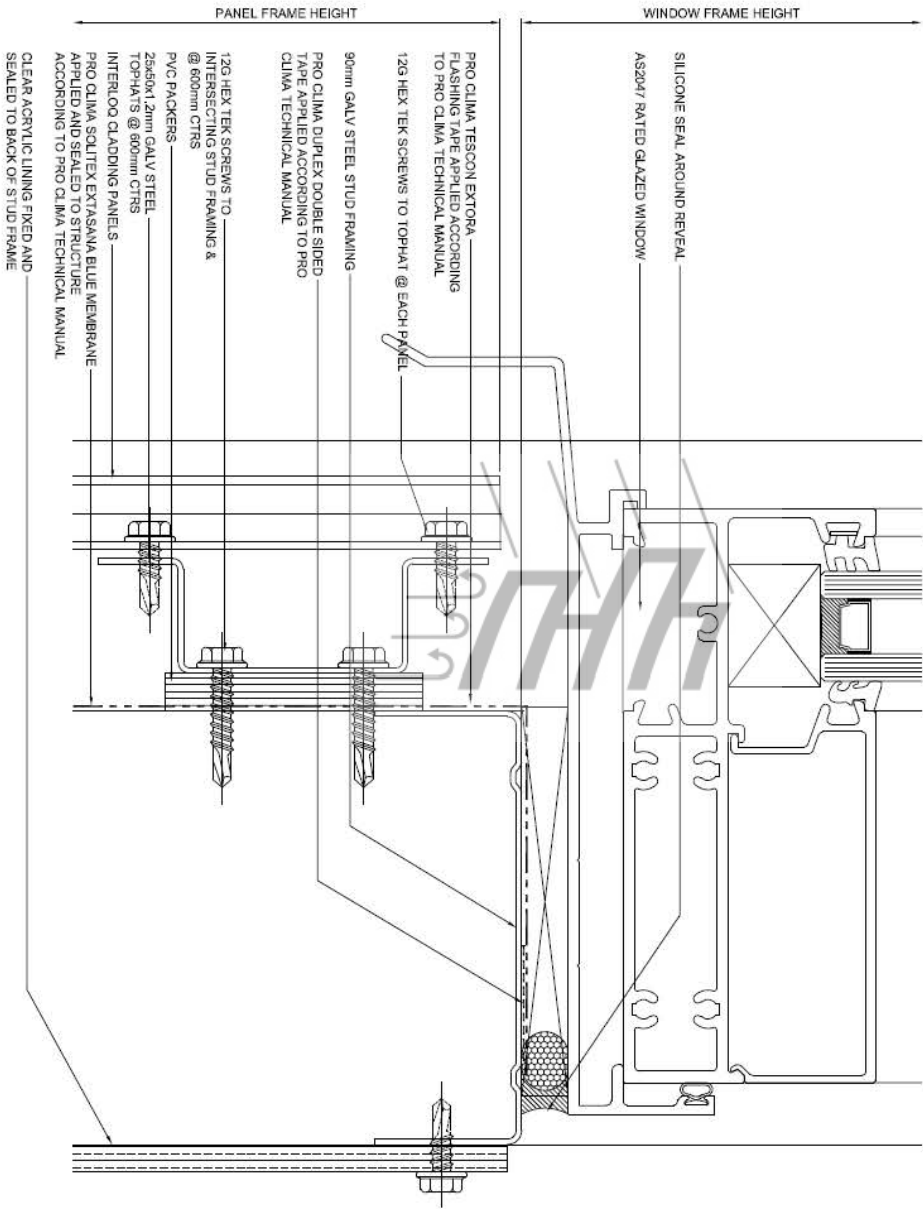
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<p><b>AS TESTED</b></p>	
<p><b>INTERLOO ALUM EXTRUSION POWDERCOAT</b></p>	
<p><b>VALMOND &amp; GIBSON</b> 1300 097 899 valmond@gibson.com</p>	
<p><b>INTERLOO CLADDING TEST</b></p>	
<p><b>TEST SPECIMEN DETAILS</b></p>	
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<p>01</p>	<p>01</p>



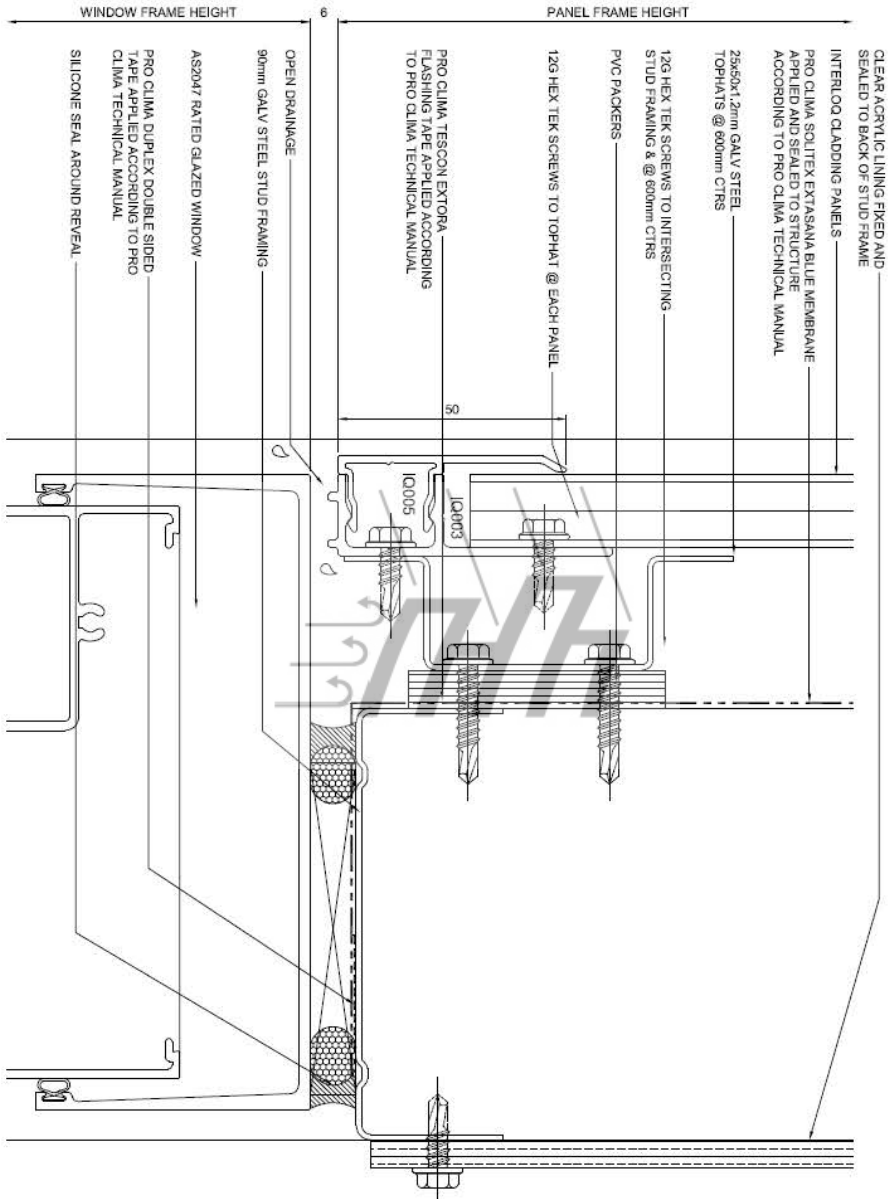
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<p>VALUOND &amp; GIBSON 1310 097 898</p>	
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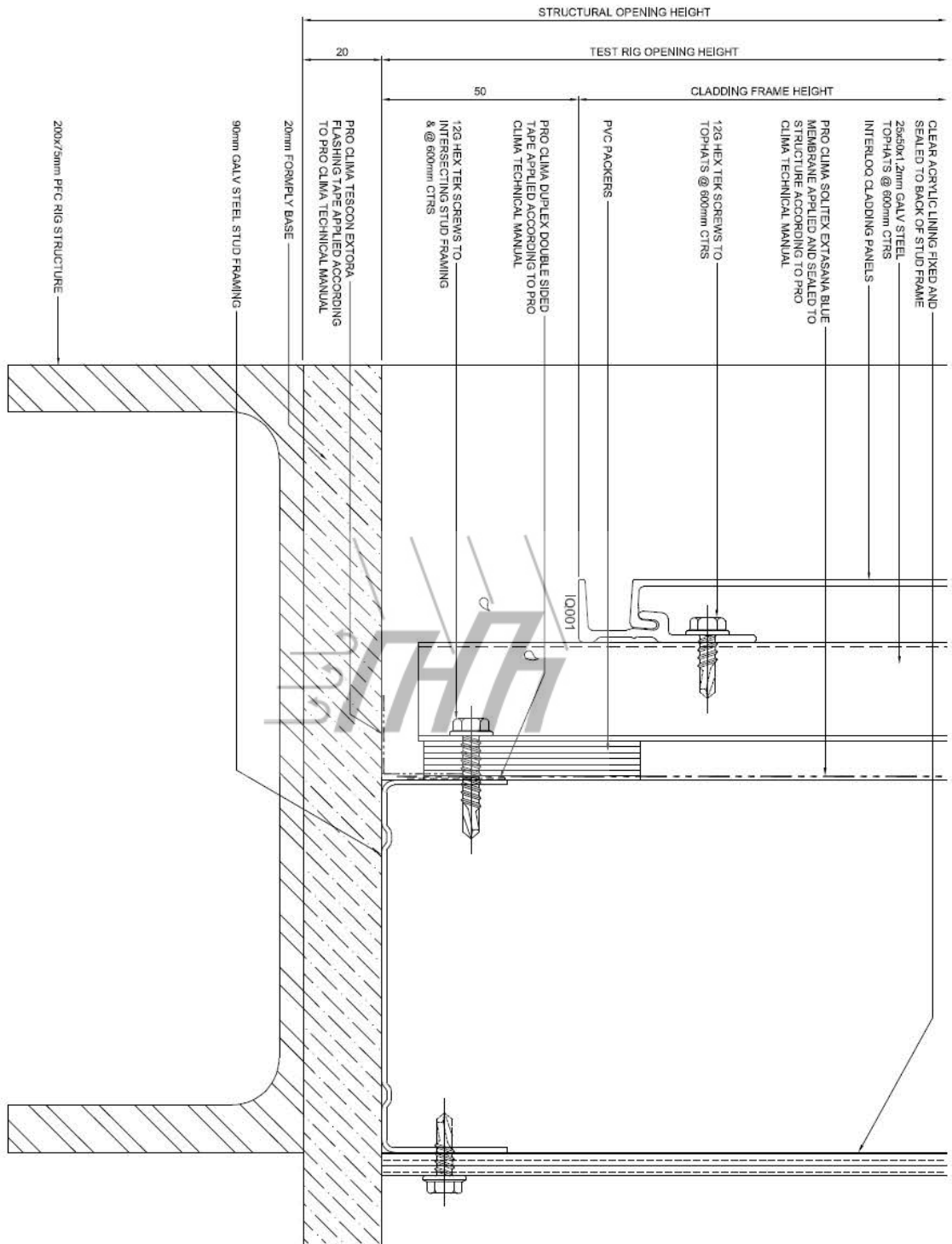
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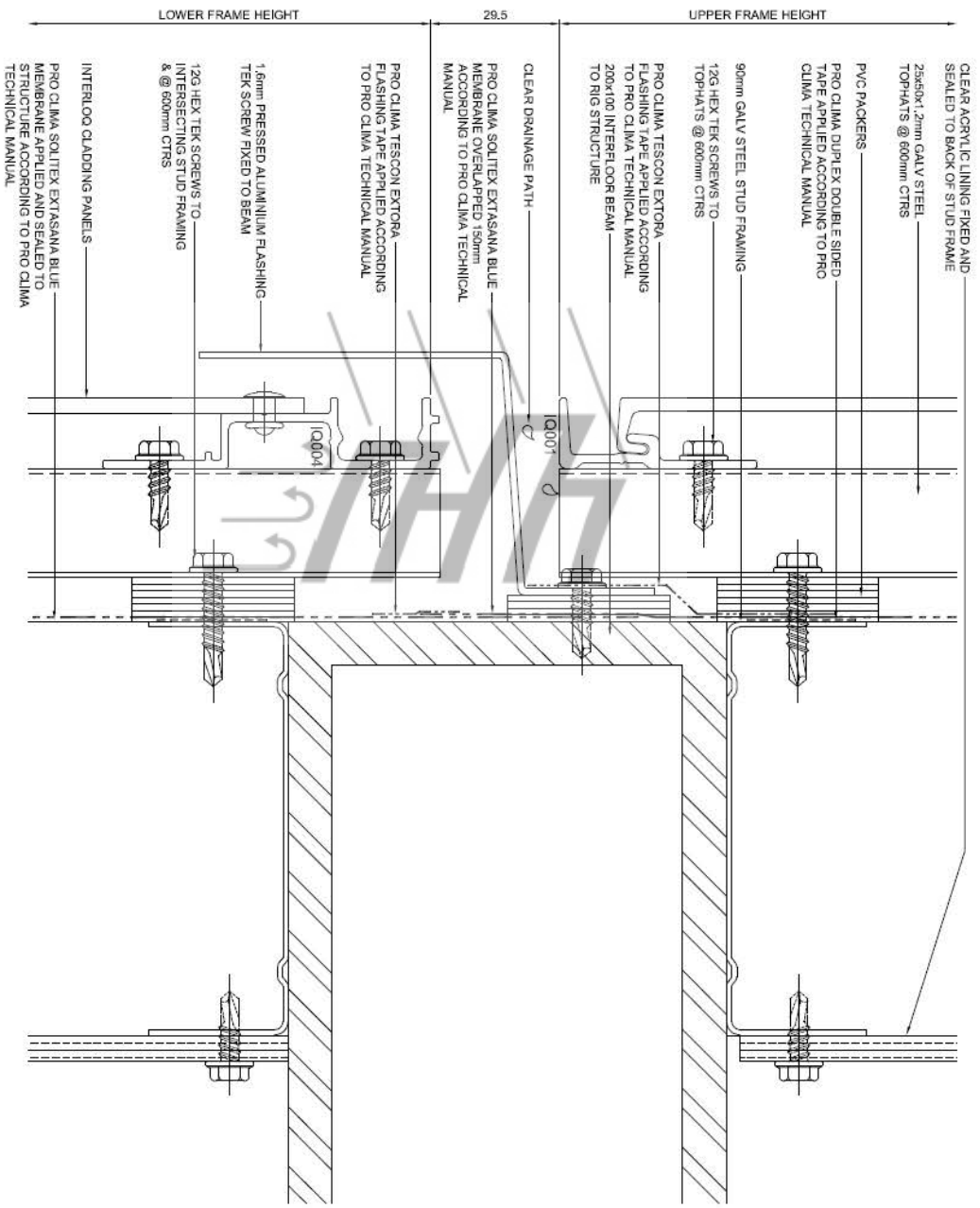
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<p><b>AS TESTED</b></p>	
<p>VALMOND &amp; GIBSON 1500 097 998 valmond@gibson.com.au</p>	
<p><b>INTERLOCK CLADDING TEST</b></p>	
<p><b>POWDERCOAT</b></p>	
<p><b>INTERLOCK ALUM EXTRUSION</b></p>	
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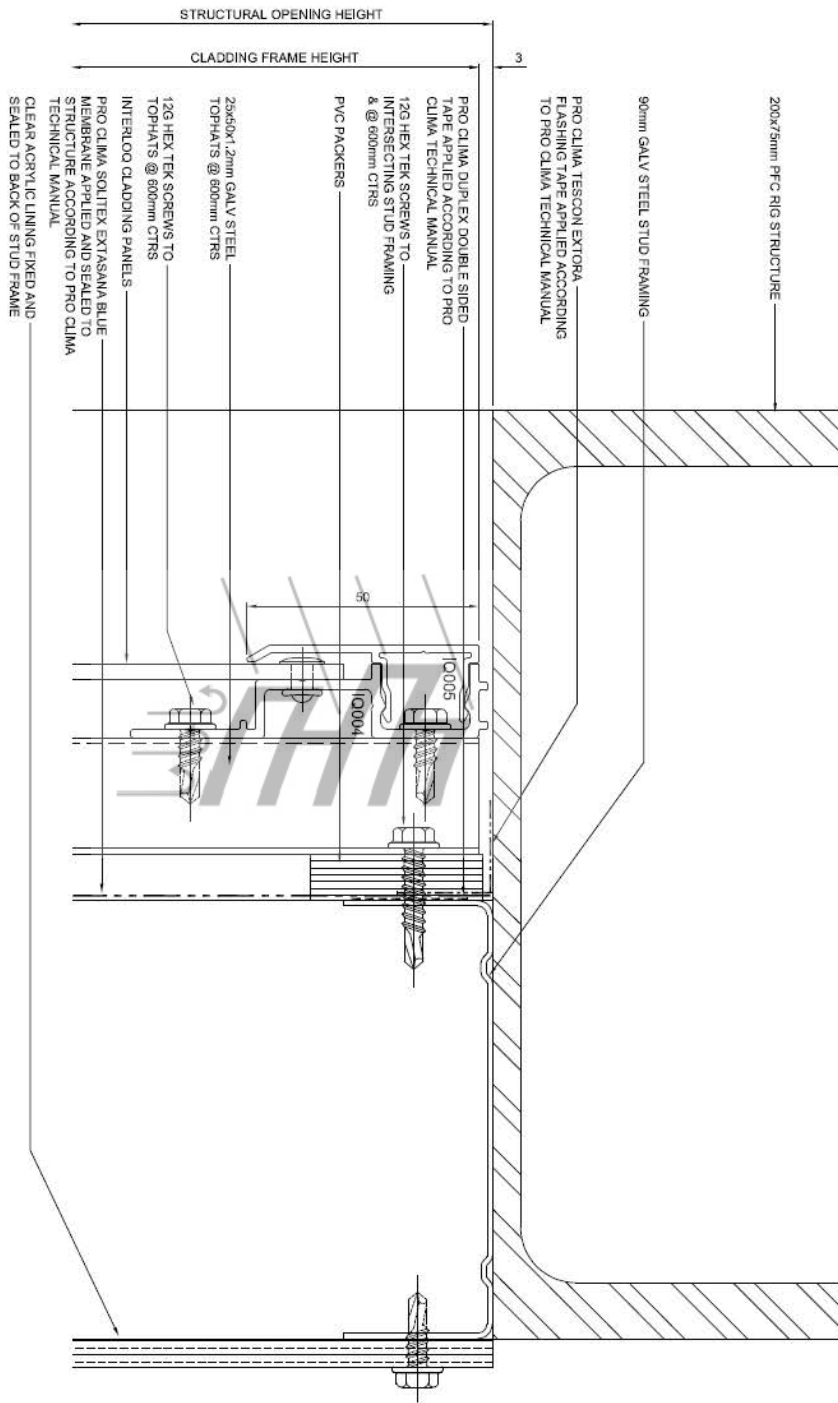
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<p>INTERLOCK ALUM EXTRUSION POWDERCOAT</p>	
<p>INTERLOCK CLADDING TEST</p>	
<p>CONTRACTOR: VALMOND &amp; GIBSON PROJECT: TR-6-400</p>	
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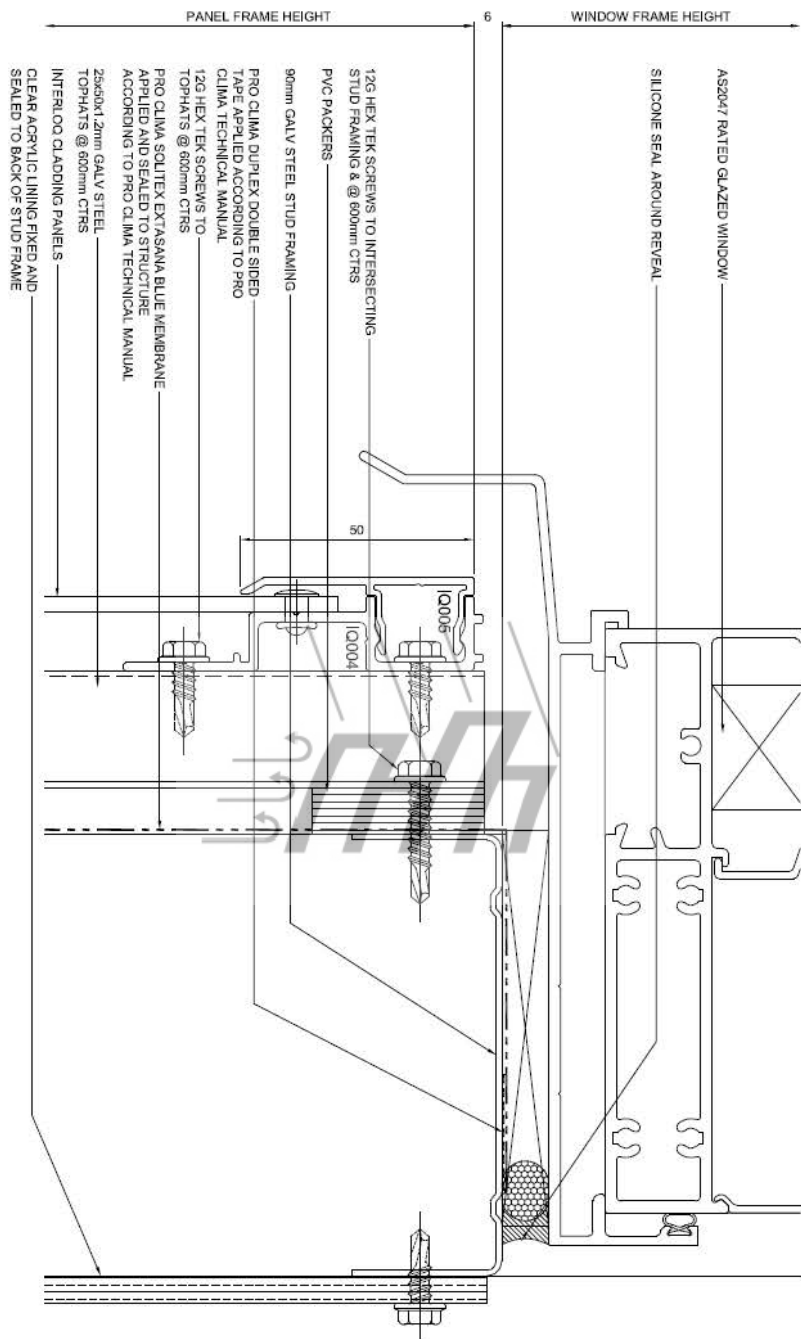
11 SECTION DETAIL 11  
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<p>INTERLOCK CLADDING TEST</p>	
<p>TEST REGIMEN DETAILS</p>	
11	TR-6-401
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12 SECTION DETAIL 12  
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<p>TEST SPECIMEN DETAILS</p>	
<p>DATE: 11/01/2022</p>	<p>TESTER: JA</p>
<p>TEST NO: TR-S-4012</p>	<p>SCALE: 01</p>



13 SECTION DETAIL 13  
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AS TESTED

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3	FOR CONTRACT		
4	FOR CONSTRUCTION		
5	FOR AS-BUILT		

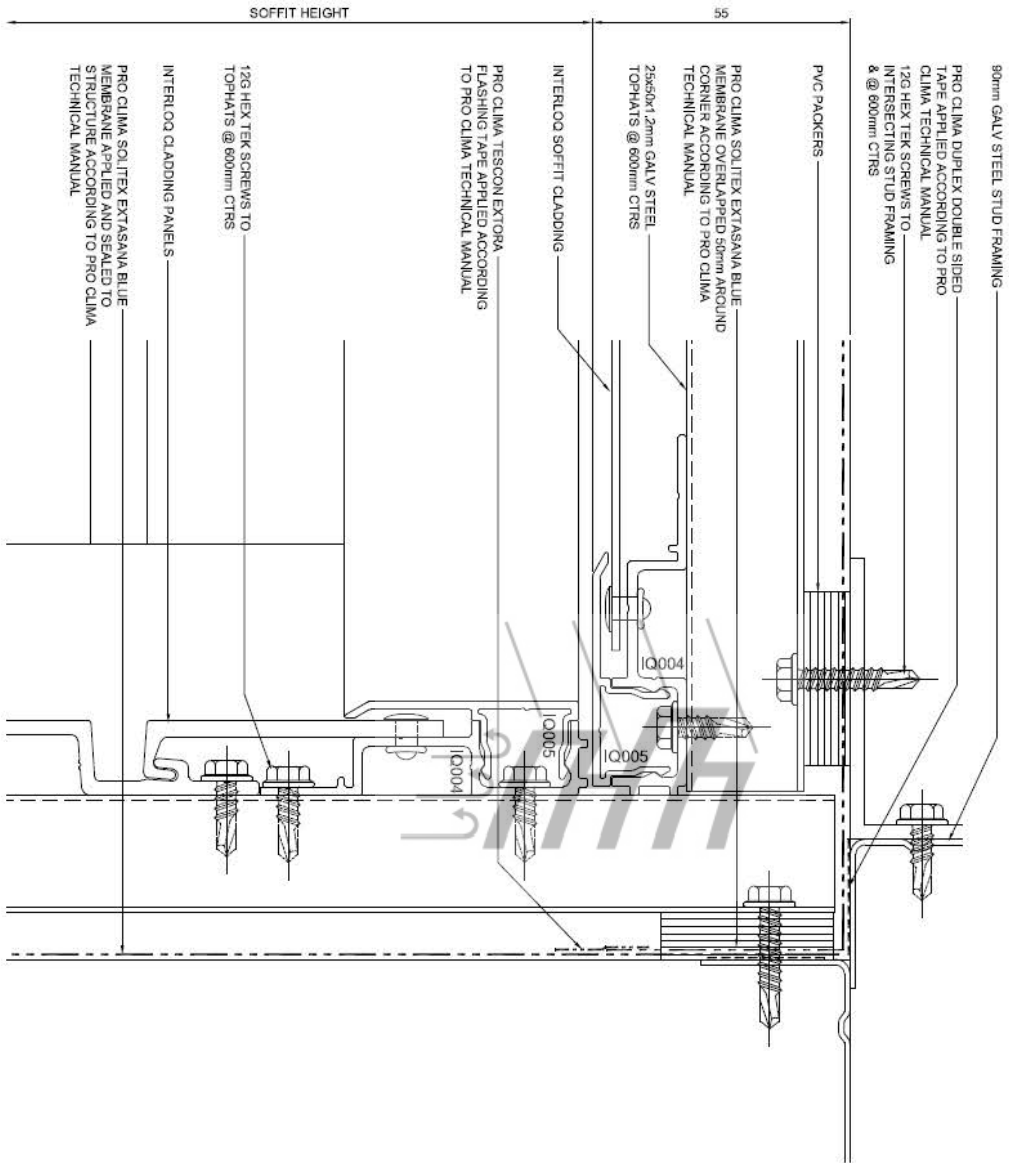
INTERLOQ ALUM EXTRUSION  
 POWDERCOAT  
 INTERLOQ CLADDING TEST  
 TEST SPECIMEN DETAILS  
 VALMOND & GIBSON  
 1300 997 998  
 www.valmondgibson.com.au

VALMOND & GIBSON  
 1300 997 998  
 www.valmondgibson.com.au

INTERLOQ CLADDING TEST  
 TEST SPECIMEN DETAILS  
 VALMOND & GIBSON  
 1300 997 998  
 www.valmondgibson.com.au

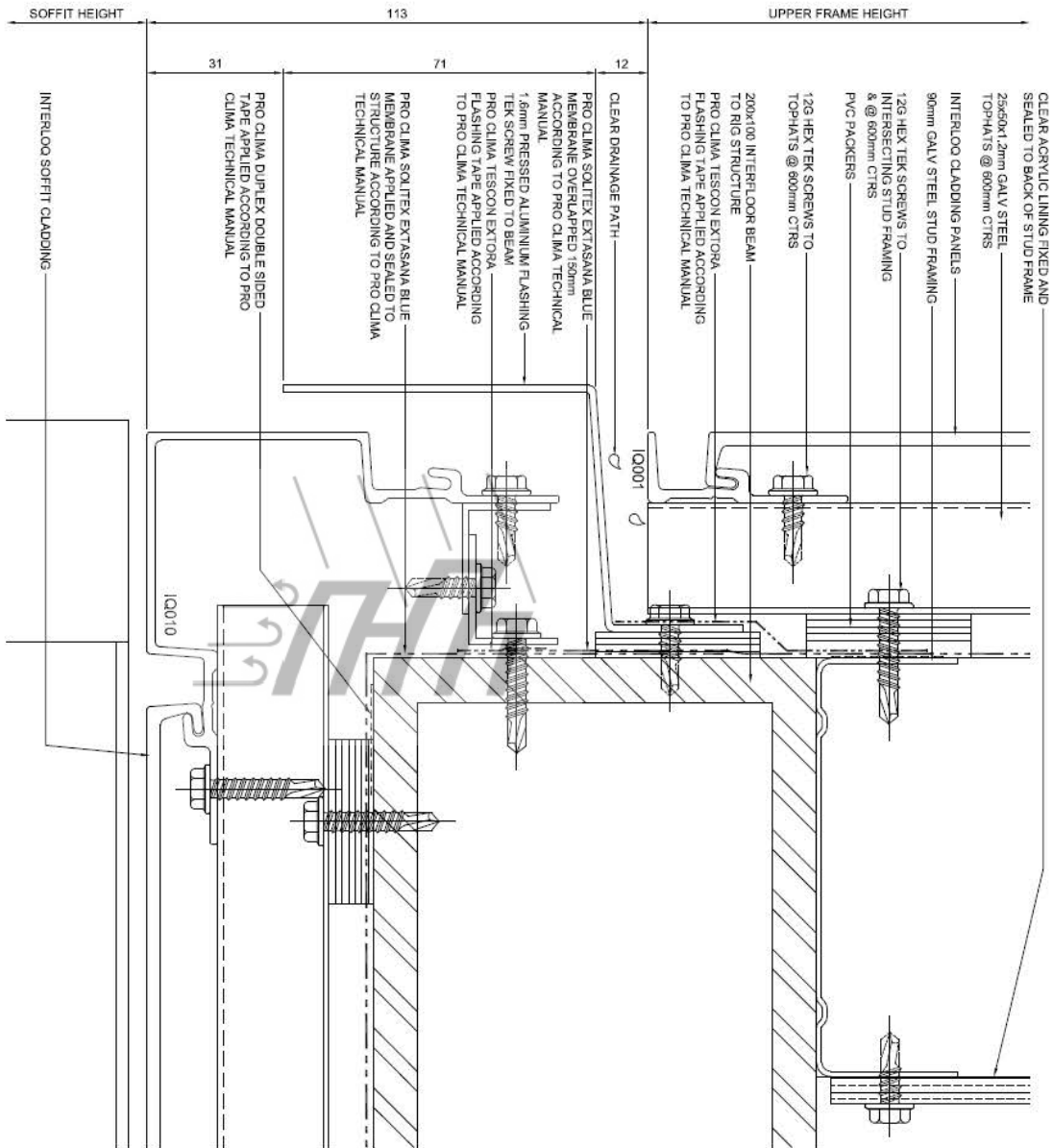
VALMOND & GIBSON  
 1300 997 998  
 www.valmondgibson.com.au





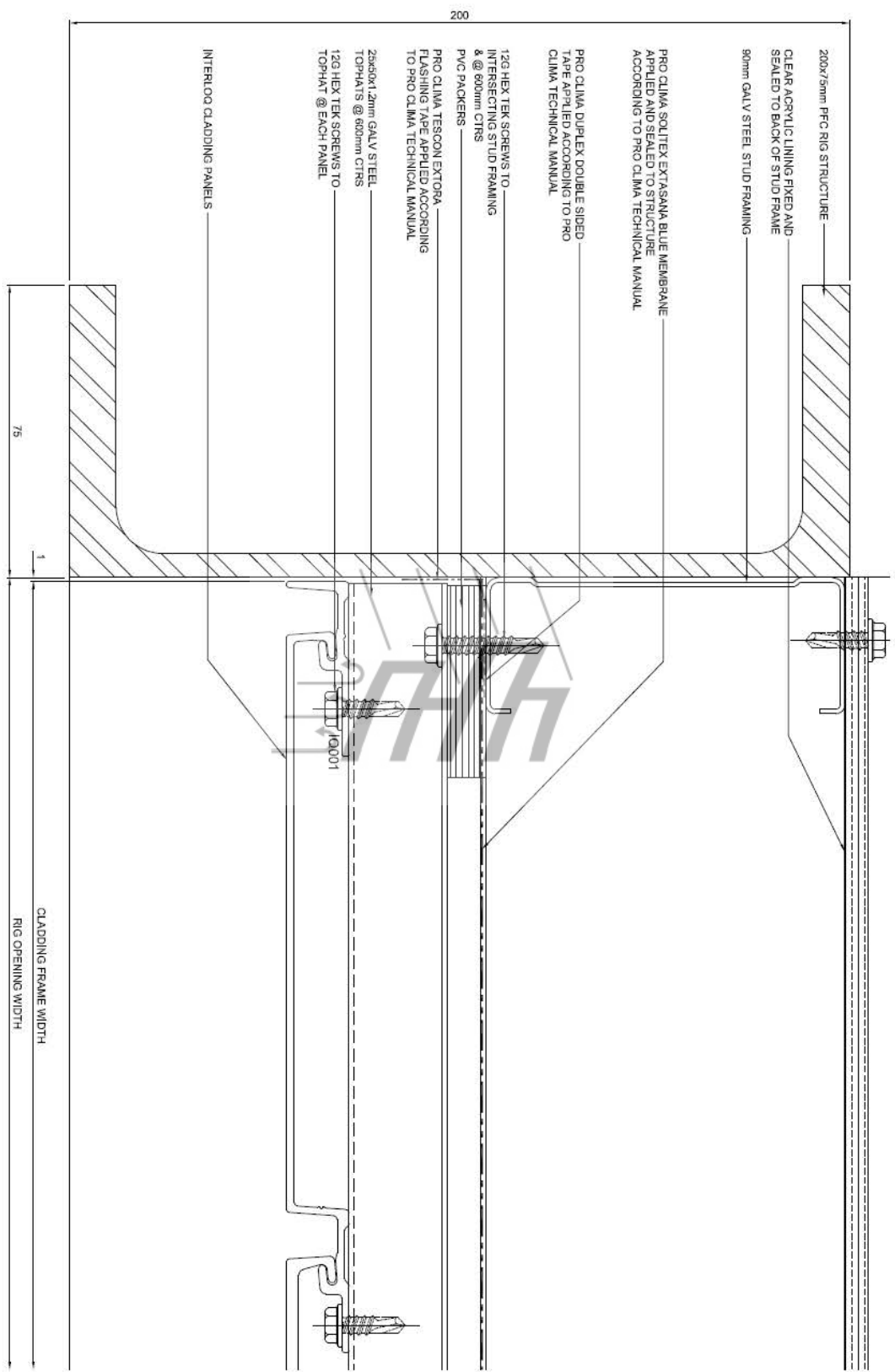
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<p>VALMOND &amp; GIBSON 1300 697 888</p>	
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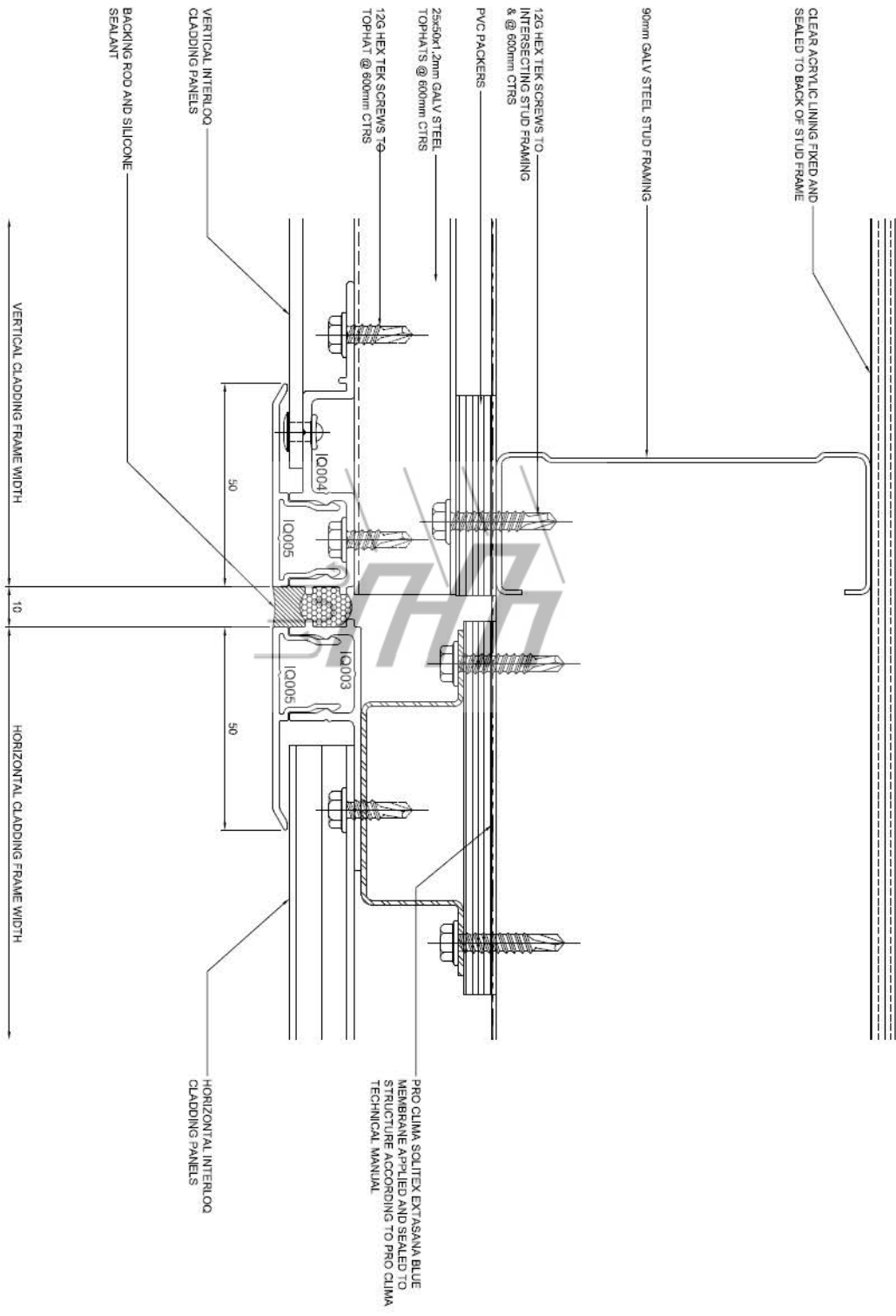
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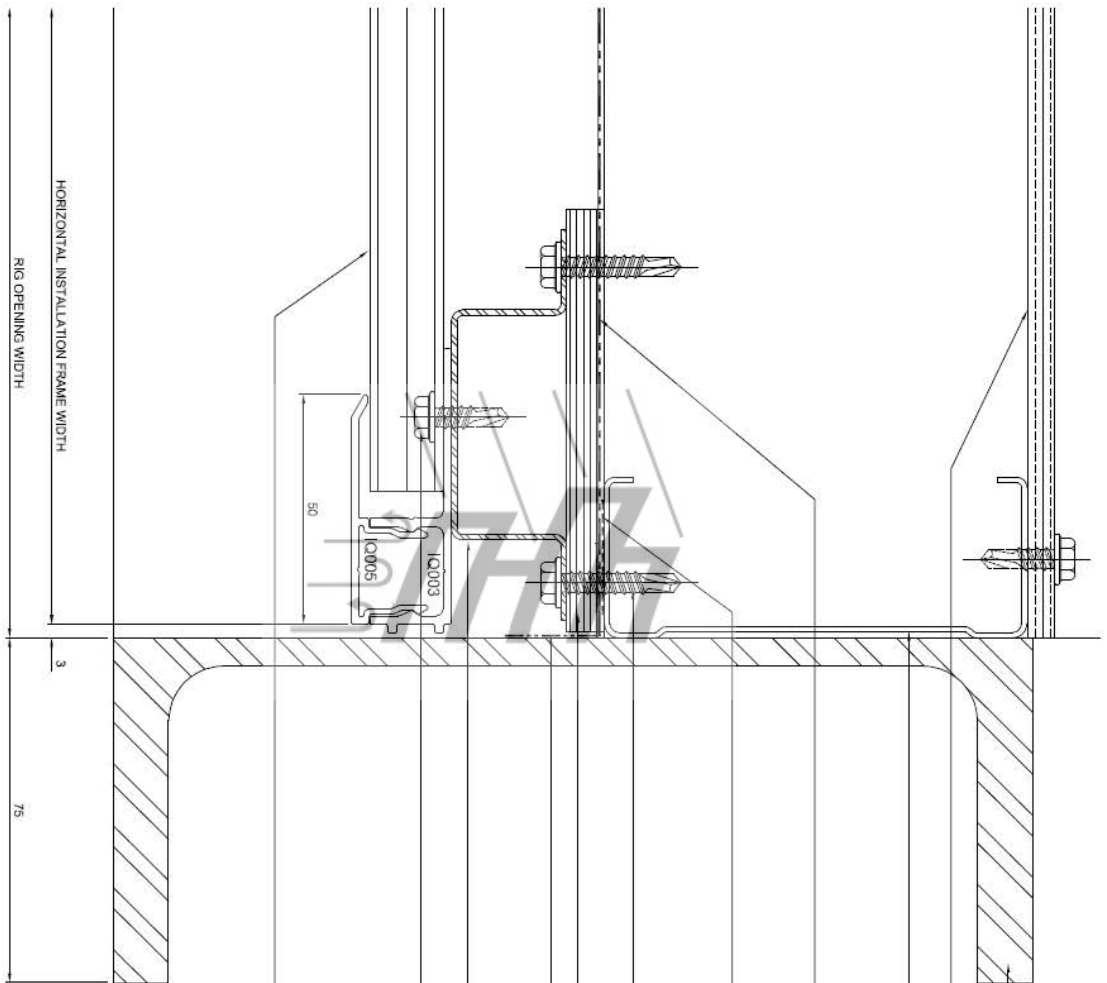
1 PLAN DETAIL 01

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<p>VALMOND &amp; GIBSON</p>	
<p>INTERLOCK ALUM EXTRUSION</p>	
<p>POWDERCOAT</p>	
<p>INTERLOCK CLADDING TEST</p>	
<p>CONTACT THE ENGINEER</p>	
<p>DETAILS</p>	
11	TR-6-5001
01	



2 PLAN DETAIL 02  
1:1

<p><b>AS TESTED</b></p>	
<p>PRO CLIMA SOLITEX EXTRASANA BLUE MEMBRANE APPLIED AND SEALED TO STRUCTURE ACCORDING TO PRO CLIMA TECHNICAL MANUAL</p>	
<p>INTERLOCK ALUM EXTRUSION POWDERCOAT</p>	
<p><b>VALMOND &amp; GIBSON</b> 1310 097 888</p>	
<p>INTERLOCK CLADDING TEST DETAILS SPECIMEN</p>	
<p>TR-4-5002 01</p>	



3 PLAN DETAIL 03  
1:1

- 200x75mm PFC RIG STRUCTURE
- CLEAR ACRYLIC LINING FIXED AND SEALED TO BACK OF STUD FRAME
- 90mm GALV STEEL STUD FRAMING
- PRO CLIMA SOLITEX EXTASANA BLUE MEMBRANE APPLIED AND SEALED TO STRUCTURE ACCORDING TO PRO CLIMA TECHNICAL MANUAL
- PRO CLIMA DUPLEX DOUBLE SIDED TAPE APPLIED ACCORDING TO PRO CLIMA TECHNICAL MANUAL
- 12G HEX TEK SCREWS TO INTERSECTING STUD FRAMING & @ 600mm CTRS
- PVC PACKERS
- PRO CLIMA TESCON EXTORA FLASHING TAPE APPLIED ACCORDING TO PRO CLIMA TECHNICAL MANUAL
- 26x60x1.2mm GALV STEEL TOPHATS @ 600mm CTRS
- 12G HEX TEK SCREWS TO TOPHAT @ 600mm CTRS
- INTERLOQ CLADDING PANELS

17108

**AS TESTED**

DATE: \_\_\_\_\_

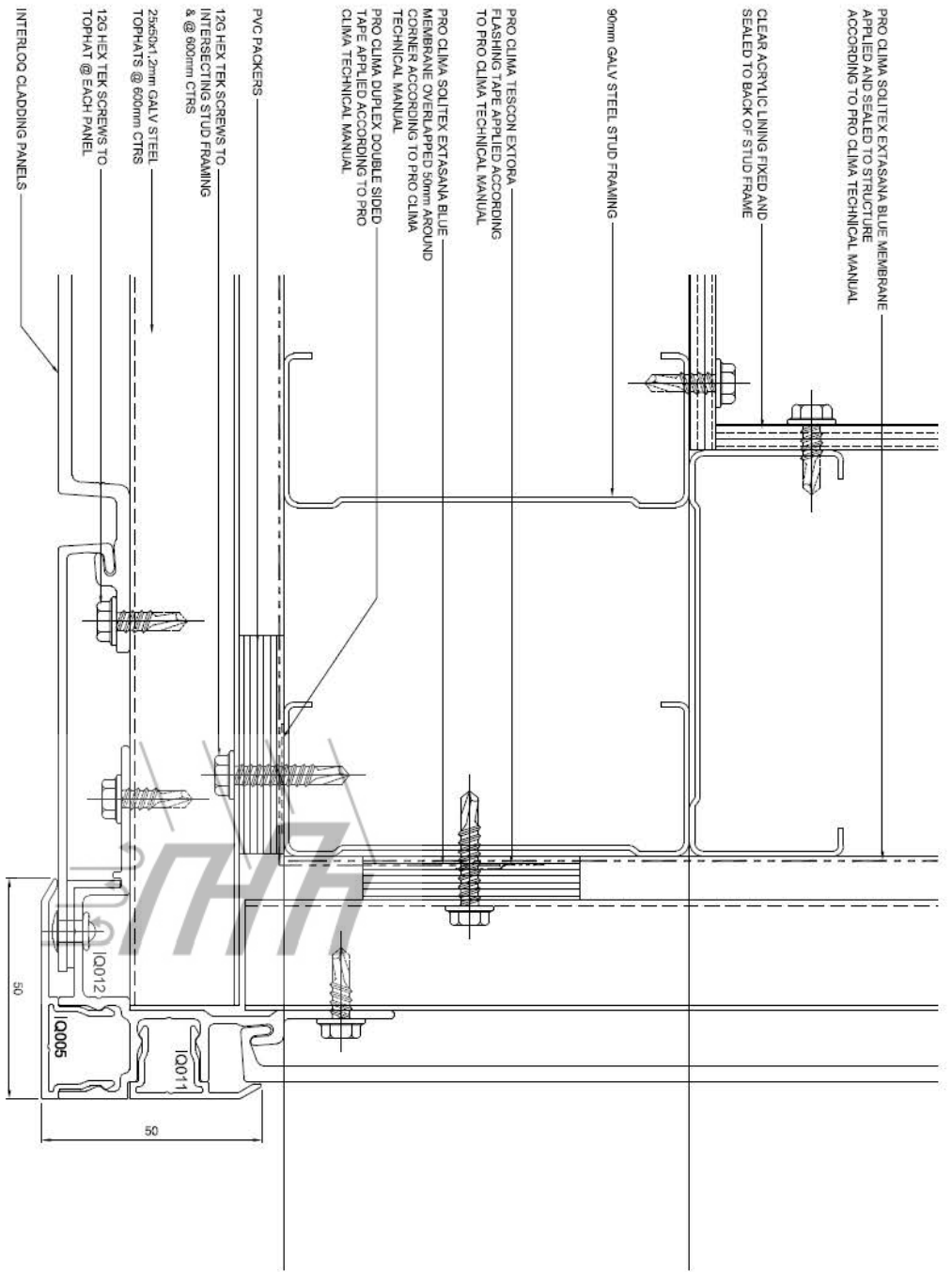
BY: \_\_\_\_\_

FOR: \_\_\_\_\_

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2	POWDERCOAT		

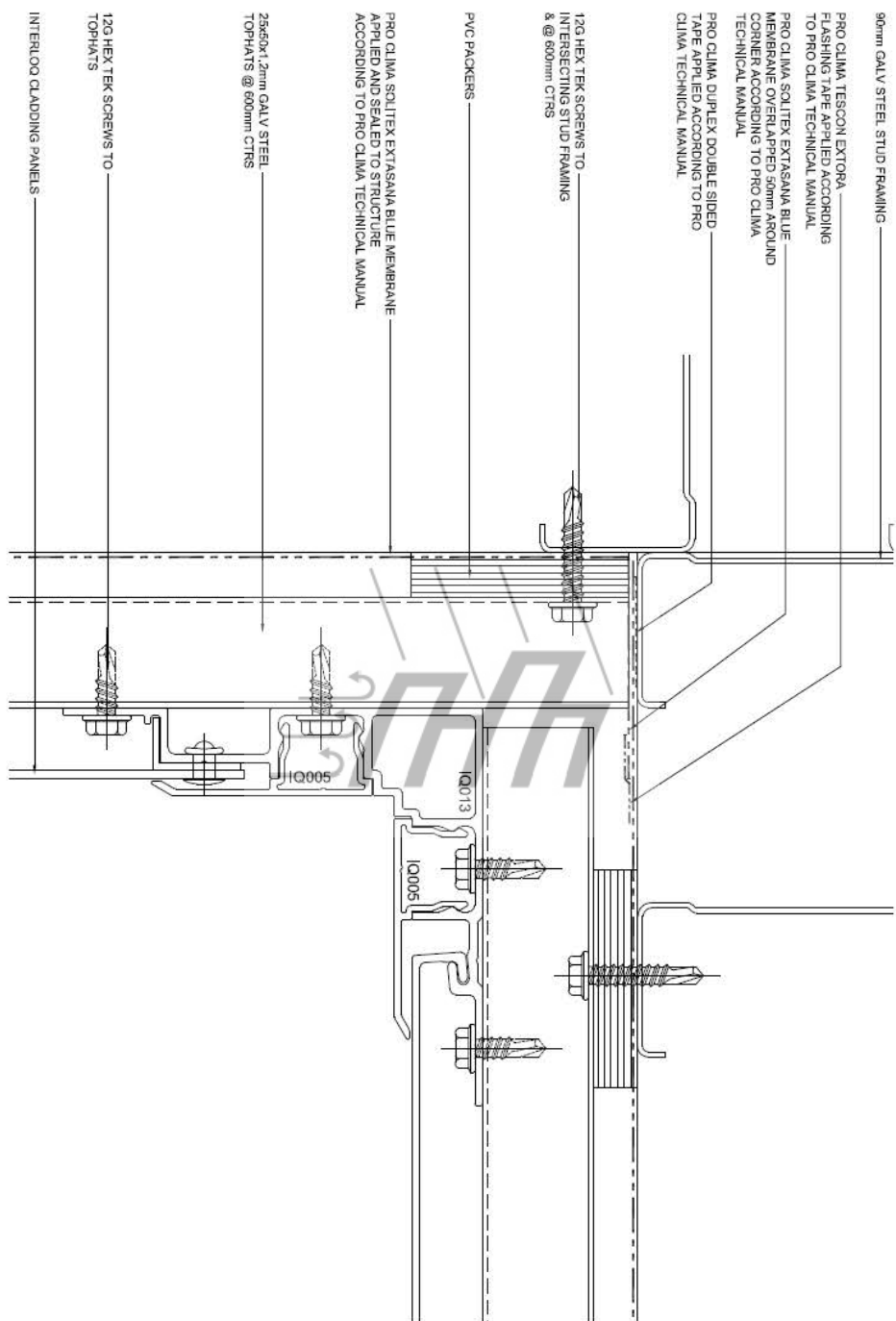
**VALMOND & GIBSON**  
1888 987 898

TEST SPECIMEN	DETAILS
INTERLOQ CLADDING TEST	
TR-6-5003	01



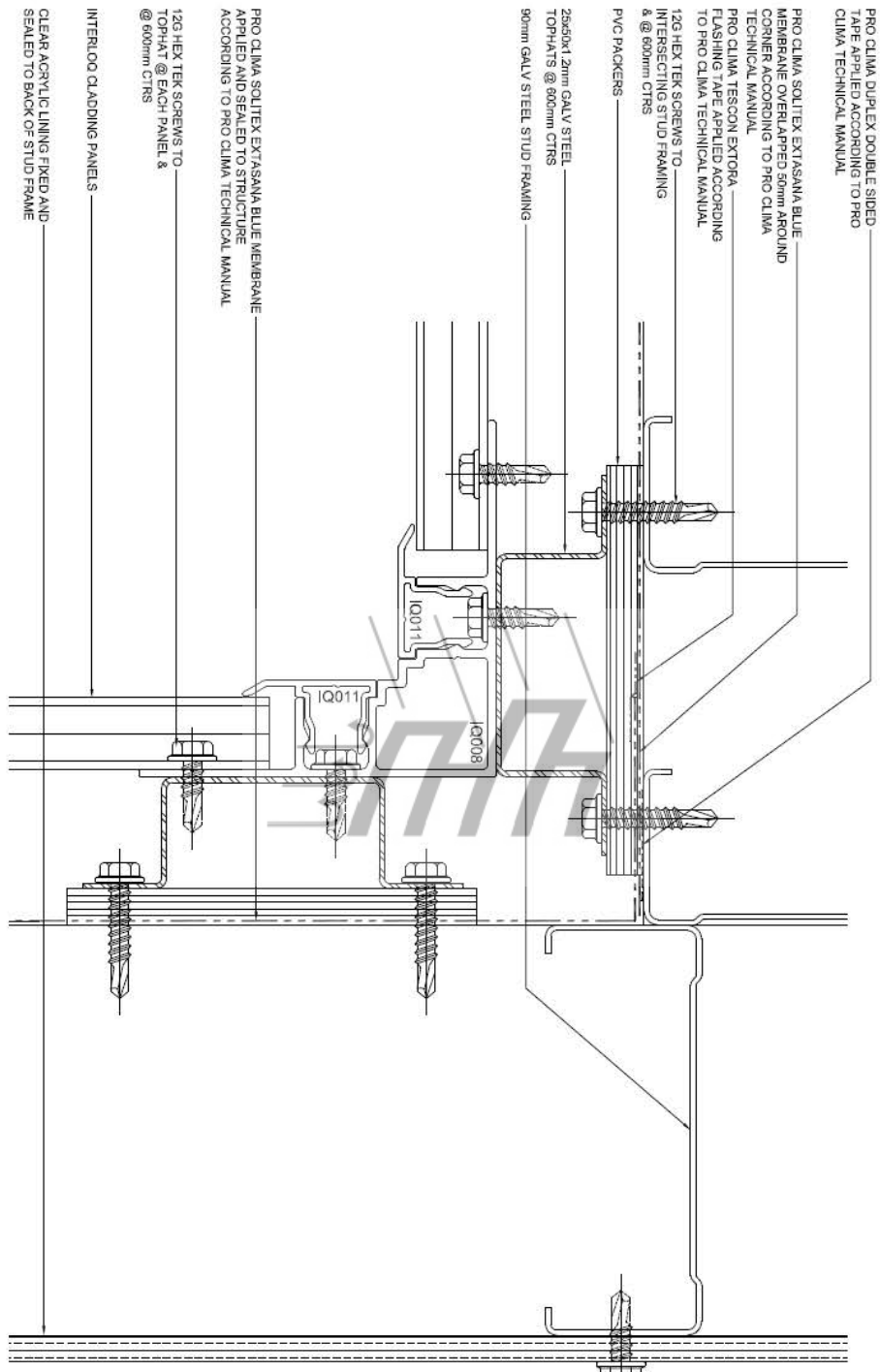
4 PLAN DETAIL 04  
1:1

<p><b>AS TESTED</b></p>	
<p>VALMOND &amp; GIBSON 1800 977 999 www.valmond.com.au</p>	
<p><b>INTERLOQ ALUM EXTRUSION</b></p>	
<p><b>POWERCAT</b></p>	
<p><b>INTERLOQ CLADDING TEST</b></p>	
<p><b>DETAILS</b></p>	
<p>TR-4-5004</p>	
<p>01</p>	



5 PLAN DETAIL 05  
1:1

<p><b>AS TESTED</b></p>	
<p>VALMOND &amp; GIBSON 1580 897 788 valmond@valmond.com</p>	
<p><b>INTERLOCK CLADDING TEST</b></p>	
<p><b>DETAILS</b></p>	
<p>DATE: 13/08/2022</p>	<p>SCALE: 1:1</p>
<p>PROJECT: [REDACTED]</p>	<p>CLIENT: [REDACTED]</p>
<p>DESIGNER: [REDACTED]</p>	<p>DATE: 13/08/2022</p>
<p>1:1</p>	<p>TP-6-5003</p>
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6 PLAN DETAIL 06  
1:1

01/20

DATE:

AS TESTED

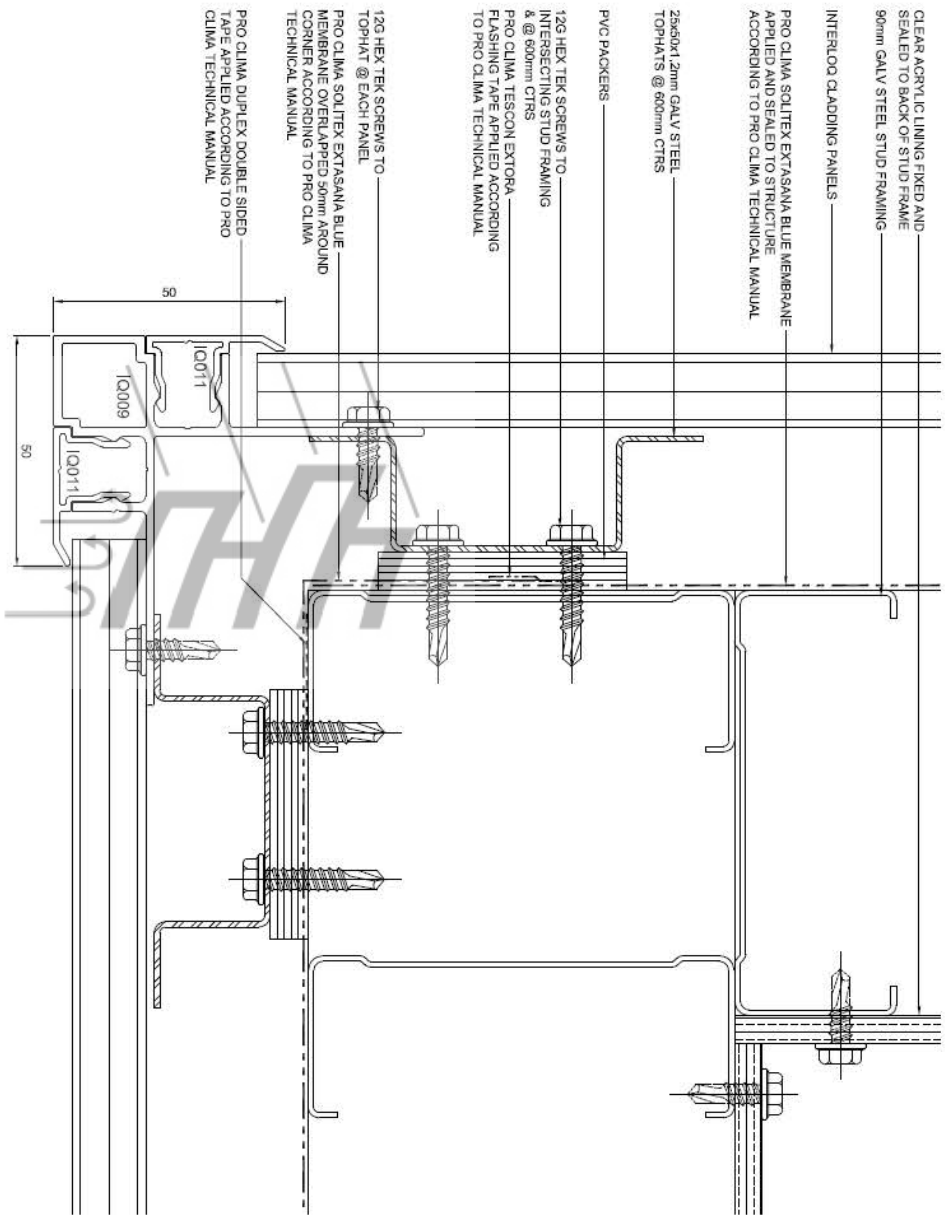
TEST SPECIMEN IDENTIFICATION

NO.	DESCRIPTION	DATE
1	TEST SPECIMEN IDENTIFICATION	
2	TEST SPECIMEN IDENTIFICATION	

VALMOND & GIBSON  
1300 097 998  
www.valmond.com.au

INTERLOQ ALUM EXTRUSION  
POWDERCOAT  
TEST SPECIMEN IDENTIFICATION  
DETAILS

11	TR-4-0008	01
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- CLEAR ACRYLIC LINING FIXED AND SEALED TO BACK OF STUD FRAME
- 90mm GALV STEEL STUD FRAMING
- INTERLOQ CLADDING PANELS
- PRO CLIMA SOLITEX EXTASANKA BLUE MEMBRANE APPLIED AND SEALED TO STRUCTURE ACCORDING TO PRO CLIMA TECHNICAL MANUAL
- 25x50x1 2mm GALV STEEL TOPHATS @ 800mm CTRS
- PVC PACKERS
- 12G HEX TEK SCREWS TO INTERSECTING STUD FRAMING & @ 600mm CTRS
- PRO CLIMA TESSON EXTORA FLASHING TAPE APPLIED ACCORDING TO PRO CLIMA TECHNICAL MANUAL
- 12G HEX TEK SCREWS TO TOPHAT @ EACH PANEL
- PRO CLIMA SOLITEX EXTASANKA BLUE MEMBRANE OVERLAPPED 50mm AROUND CORNER ACCORDING TO PRO CLIMA TECHNICAL MANUAL
- PRO CLIMA DUPLEX DOUBLE SIDED TAPE APPLIED ACCORDING TO PRO CLIMA TECHNICAL MANUAL

7 PLAN DETAIL 07  
1:1

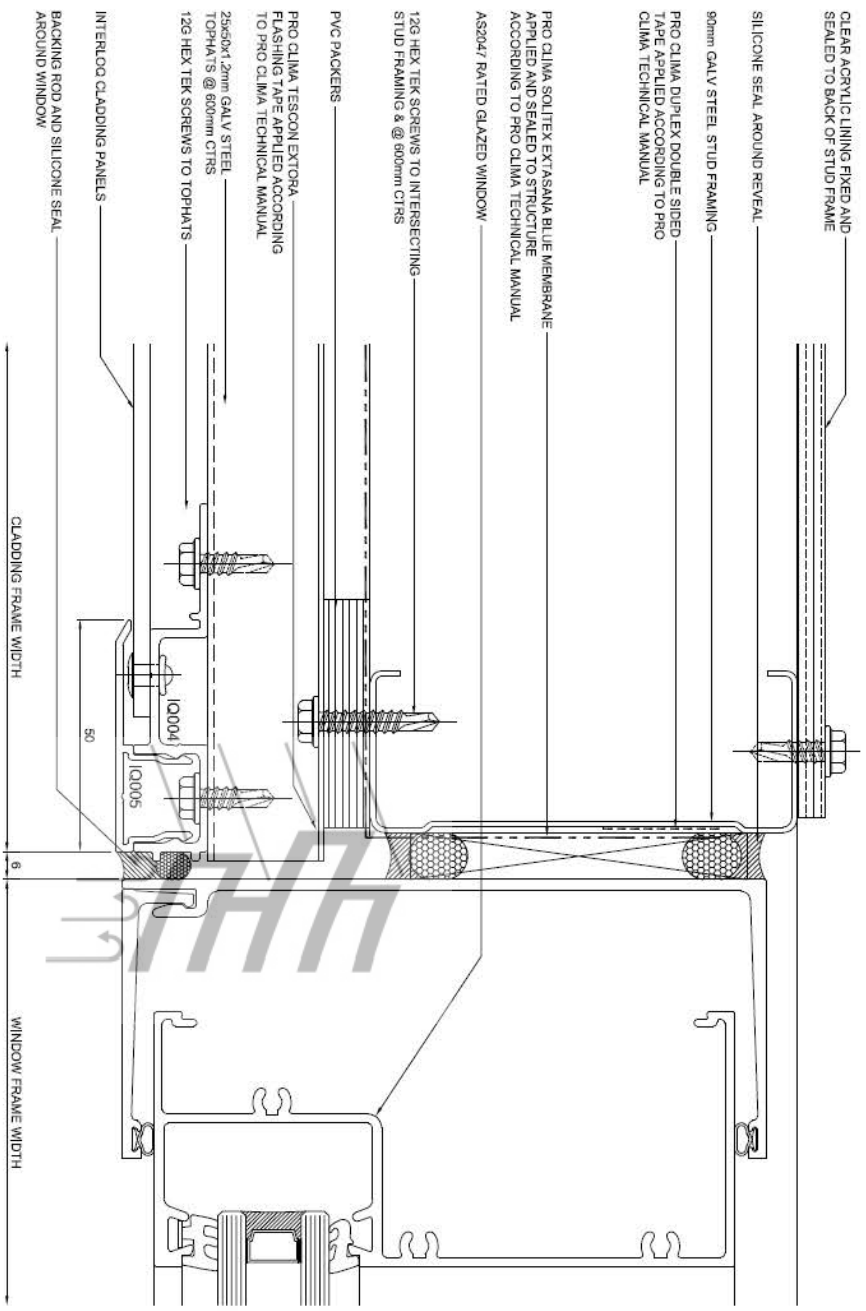
**AS TESTED**

VALMOND & GIBSON 1310 097 298

INTERLOQ CLADDING TEST DETAILS

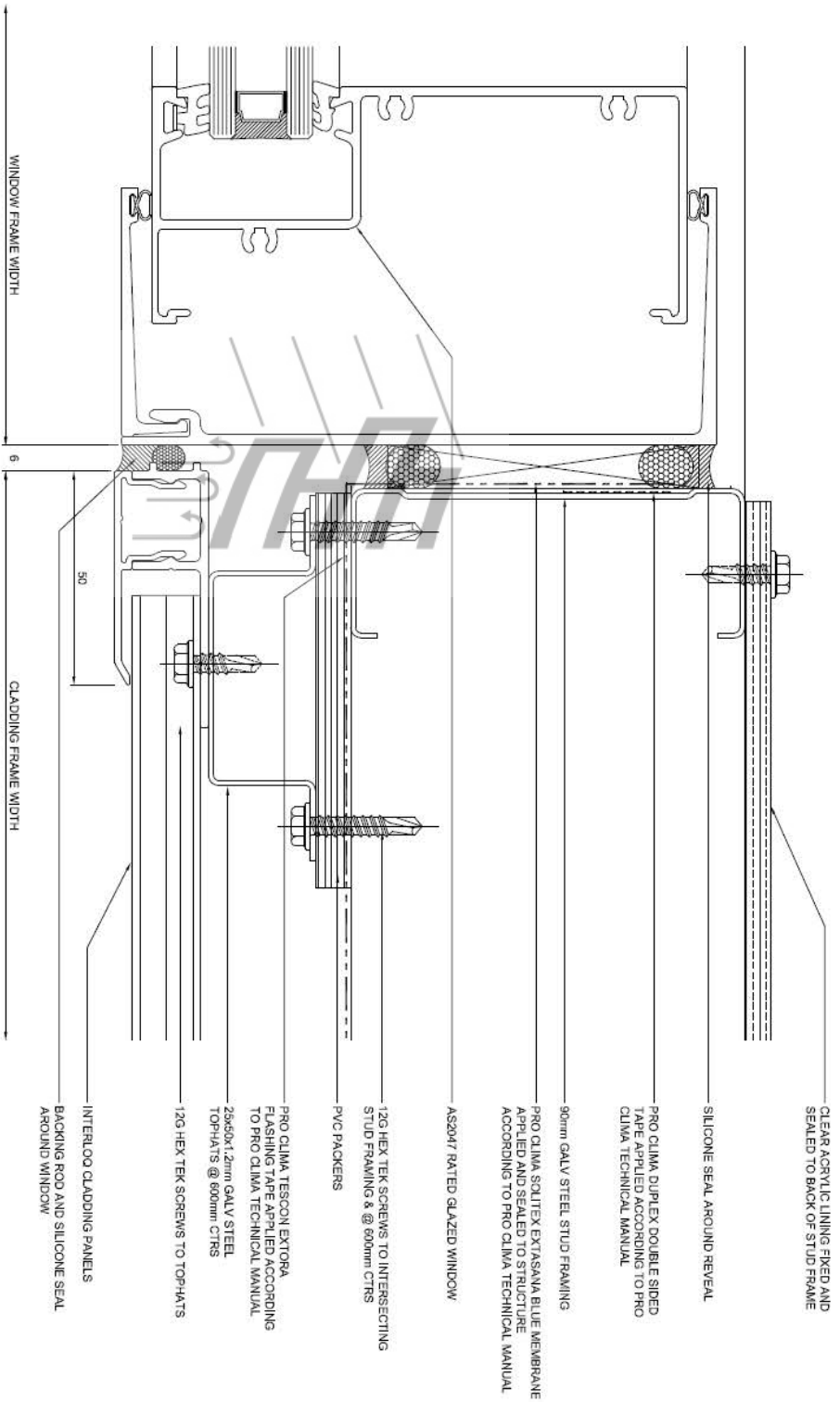
TR-4-5007

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8 PLAN DETAIL 08  
1:1

<b>AS TESTED</b>	
<p>VALMOND &amp; GIBSON 15100 097 898</p>	
<p>INTERLOQ CLADDING TEST</p>	
<p>DETAILS</p>	
1:1	TR-8-5008
02	



9 PLAN DETAIL 09  
1:1

**AS TESTED**

**VALMOND & GIBSON**  
1310 097 938  
info@valmond.com

**INTERLOQ ALUM EXTRUSION**

**POWDERCOAT**

**INTERLOQ CLADDING TEST**

**TEST SPECIMEN DETAILS**

TEST NO.	TR-6-5009
DATE	02

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

**Client :** Akzo Nobel Pty Ltd  
51 McIntyre Road  
Sunshine VIC 3020

**Test Number :** 16-005953  
**Issue Date :** 5/12/2016  
**Print Date :** 8/04/2019

### Replacement of Initial Report dated :27/01/2017

**Sample Description** Clients Ref : "D2525"  
Powder coating applied to aluminium street  
Colour : White  
End Use : Architectural Aluminium Coating  
Nominal Composition : Polyester resin powder coating  
Nominal Mass per Unit Area/Density : 1.2-1.7 g/m2  
Nominal Thickness : 60-80um

AS/NZS 1530.3-1999

### Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

Face tested:	Face		
Date tested:	02/12/2016		
	Standard Error		Mean
Ignition time	0.10		7.98 min
Flame propagation time	Nil		Nil sec
Heat release integral	2.0		16.9 kJ/m <sup>2</sup>
Smoke release, log d	0.0170		-1.4856
Optical density, d			0.0328 / metre
Number of specimens ignited:			6
Number of specimens tested:			6
Regulatory Indices:			
Ignitability Index			12 Range 0-20
Spread of Flame Index			0 Range 0-10
Heat Evolved Index			0 Range 0-10

162024

16016

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- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356



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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc. (Hons)  
MANAGING DIRECTOR

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Smoke Developed Index

3 Range 0-10

These results only apply to the specimen mounted, as described in this report. The result of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

Specimens tended to flash before ignition. Ignition was based on the occurrence of a single flash of flame which lasted longer than 10 seconds.

Each test specimen was clamped in four places.

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16016

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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

# Certificate of Test

QUOTE No.: NC8376

REPORT No.: FNC12595

## COMBUSTIBILITY TEST FOR MATERIALS IN ACCORDANCE WITH AS 1530.1-1994

**SPONSOR:** Valmond & Gibson Pty Ltd  
88 Phillip Street  
Level 25 Aurora Place  
SYDNEY NSW 2000  
AUSTRALIA

**DESCRIPTION OF TEST SAMPLE:**

The sponsor described the tested specimen as an aluminium material representative of the aluminium used in the InterloQ cladding panel.

Nominal thickness: 3 mm (50 mm for the test)  
Nominal density: 2700 kg/m<sup>3</sup>  
Colour: silver

**TEST PROCEDURE:**

Five (5) samples were tested in accordance with Australian Standard 1530 Methods for fire tests on building materials, components and structures, Part 1- 1994: Combustibility Test for Materials.

An alternative suitable insulating material was used to fill the annular space between the furnace tubes, as specified in Clause 4.2 of ISO 1182:2010.

**RESULTS:**

The following calculated results were obtained, refer also to Summary of measurements:

Arithmetic mean	$= \frac{\Sigma \text{results}}{5}$
Mean furnace thermocouple temperature rise (°C)	8.63
Mean specimen centre thermocouple temperature rise (°C)	12.56
Mean specimen surface thermocouple temperature rise (°C)	8.22
Mean duration of sustained flaming (s)	0
Mean mass loss (%)	0.06

**DESIGNATION:**

The material is NOT deemed combustible according to the test criteria specified in Clause 3.4 of AS 1530.1-1994.

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

DATE OF TEST: 23 June 2020

Issued on the 21<sup>st</sup> day of July 2020 without alterations or additions.



Faustin Molina  
Testing Officer



Stephen Smith  
Team Leader, Reaction to Fire & Façade Fire Laboratory

**End of Report**

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Number: 165  
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CSIRO INFRASTRUCTURE TECHNOLOGIES

14 Julius Avenue, Riverside Corporate Park, North Ryde NSW 2113 AUSTRALIA  
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**SUMMARY OF MEASUREMENTS AND OBSERVATIONS OF SAMPLES UNDER TEST C12595**

Parameters	Symbol or expression	Unit symbol	Sample Number				
			1	2	3	4	5
Initial specimen mass	$m_{si}$	g	178.26	178.29	178.35	178.05	178.22
Final specimen mass	$m_{sf}$	g	178.22	178.23	178.34	177.70	178.18
Mass loss	$\Delta m = \frac{M_{si} - M_{sf}}{M_{si}} \times 100$	%	0.02	0.03	0.01	0.20	0.02
Total duration of sustained flaming	Cumulative total of duration of flaming*	s	0	0	0	0	0
Initial furnace thermocouple temperature	$T_{fi}$	°C	750	751	747	753	747
Maximum furnace thermocouple temperature	$T_{fm}$	°C	795	786	794	782	797
Final furnace thermocouple temperature	$T_{ff}$	°C	790	780	784	770	786
Furnace thermocouple temperature rise	$\Delta T_f = T_{fm} - T_{ff}$	°C	5	6	10	12	11
Maximum specimen centre thermocouple temperature	$T_{cm}$	°C	743	722	729	730	706
Final specimen centre thermocouple temperature	$T_{cf}$	°C	735	709	711	718	695
Specimen centre thermocouple temperature rise	$\Delta T_c = T_{cm} - T_{cf}$	°C	8	13	18	12	11
Maximum specimen surface thermocouple temperature	$T_{cm}$	°C	790	780	783	787	792
Final specimen surface thermocouple temperature	$T_{sf}$	°C	783	776	775	775	783
Specimen surface thermocouple temperature rise	$\Delta T_s = T_{cm} - T_{sf}$	°C	7	4	8	12	9
Test duration	-	min	125	110	115	80	110

- Any individual duration flaming less than 5 seconds was discarded

**End of Test Certificate**