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## **Vipac Engineers & Scientists**

FVA Group Pty Ltd

**Fairview - AS 4284 testing on facades**

**Test Report - Vitracore G2 with Rigid Membrane**

30B-19-0059-TRP-6774696-1

11 November 2020

<b>Job Title:</b>	Fairview - AS 4284 testing on facades
<b>Report Title:</b>	Test Report - Vitracore G2 with Rigid Membrane
<b>Document Reference:</b>	30B-19-0059-TRP-6774696-1

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<b>REVISION HISTORY:</b>			
Rev. #	Comments / Details of change(s) made	Date	Revised by:
Rev. 00	Original issue	02/04/2020	R.Dyck
Rev. 01	Updated company name and pipe penetration detail	11/11/2020	R.Dyck
Rev. 02			

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**EXECUTIVE SUMMARY**

Vipac Engineers and Scientists were commissioned by Fairview Pty Ltd / FVA Group Pty Ltd (the client) to perform AS/NZS 4284:2008 and NZBC E2/VM1 testing for their cladding system.

The sample was installed by the client at the Vipac test laboratory in Port Melbourne, and the sample was tested by Vipac Engineers and Scientists during February of 2020.

The test sample was found to have the below results for AS/NZS 4284:2008 compliance:

Test Date	AS/NZS4284:2008 Test	Result
04/02/2020	Clause 8.2 Preliminary tests	Complies +3500Pa, -4000Pa SLS Preload
04/02/2020	Clause 8.3 Structural test at serviceability limit state	Complies with Span deflection requirements at +3000Pa, -3500Pa
05/02/2020	Clause 8.5 Static water test	Complies 1050Pa
05/02/2020	Clause 8.6 Cyclic water test	Complies Stage 1: 525Pa – 1050Pa Stage 2: 700Pa – 1400Pa Stage 3: 1050Pa – 2100Pa
05/02/2020	Clause 8.8 Structural test at ultimate limit state	Complies +5000, -6000

*Table 1: Test results summary*

The test sample complied with test conditions of E2/VM1.

Full details are contained within this report.

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## 1 INTRODUCTION

<b>Document Type:</b>	Test Report
<b>Company:</b>	Fairview Pty Ltd / FVA Group Pty Ltd
<b>Product:</b>	Vitracore G2 with Siniat Board membrane
<b>Test Date:</b>	February 2020
<b>Testing Authority:</b>	Vipac Engineers & Scientists

## 2 TEST REFERENCE & APPLICATION STANDARD

<b>AS/NZS 4284:2008</b>	Testing of Building Facades
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## 3 TEST SPECIMEN



*Figure 1: Test sample prior to testing*

Details of the test sample can be found in Appendix B and C of this report.

#### 4 TEST EQUIPMENT

Measurement	Instrument Type/Make	Model	Vipac Serial Number
Deflection	Dial gauges/ Mitutoyo	3058S-19	000034597
			000033756
			000034596
			000033758
			000034598
Distance	Tape Measure / Stanley	8m	000033666
Pressure	Digital Manometer / PCE	PCE-PDA-10L	000033540
Water flow rate	Flow meter/ Siemens	Mag 6000	000031229
Time	Stopwatch/ Dick Smith	Y1299	000033567

*Table 2: Instruments used throughout testing*

## 5 TEST RESULTS AS/NZS 4284

### 5.1 CLAUSE 8.2 – PRELIMINARY TESTS

**Test Standard:** AS/NZS 4284:2008 – Testing of Building Facades

**Test Date:** 04/02/2020

#### 5.1.1 CRITERIA: STATIC PRESSURE

Test sample shall withstand the Serviceability Limit State pressure with no structural damage or distortion.

**Applied Load:** Nominated Serviceability Pressure: +3.5 kPa, -4.0 kPa

Duration: 10 seconds

#### 5.1.2 CRITERIA: STATIC AND CYCLIC WATER TESTS

Under static and cyclic water tests there shall be no leaks. A leak is considered to occur when one or more of the following occur:

- Water appears on any inside surface of the façade, visible from an occupied space.
- Uncontrolled water appears on any inside surface of the façade (uncontrolled water is defined as any leakage not contained and drained away after 5 minutes).
- Water appears that is likely to wet insulation, fixtures and finishes.
- Water appears in other locations specified as unacceptable by the Specifier

**Static water test:** **Applied Load:** Nominated pressure: +1.050 kPa

Duration: water spray operated for 5 minutes at 0 kPa chamber pressure, followed by water spray and pressure at the test pressure for 15 minutes. Observe for 5 minutes after removal of both water and air pressure.

**Cyclic water test:** **Applied Load:** Nominated pressures:

Stage	Lower pressure	Upper pressure	Cycle Duration
Stage 1	0.525 kPa	1.050 kPa	5 minutes
	0 kPa		2 minutes
Stage 2	0.700 kPa	1.400 kPa	5 minutes
	0 kPa		2 minutes
Stage 3	1.050 kPa	2.100 kPa	5 minutes
Observation	0 kPa		5 minutes

Table 3: Cyclic pressure lower and upper limits, cycle time of 3 seconds to 5 seconds

**Applied Water:** Water spray rate: 3.0 L/m<sup>2</sup>min

Measured spray area: 8.6 m<sup>2</sup>

Resulting spray flow rate: 25.9 l/min

**Results:** The preliminary static and cyclic water tests were completed successfully.

**Conclusion:** The preliminary test of the façade complies with the requirements of AS/NZS 4284:2008

**5.2 CAUSE 8.3 – STRUCTURAL TEST AT SERVICEABILITY LIMIT STATE (SLS)**

**Test Standard:** AS/NZS 4284:2008 – Testing of Building Facades

**Test Date:** 04/02/2020

**Formulae:** The net mid-span deflection ( $d$ ) of each member is given by the following:

$$d = D_m - D_e$$

where:

$D_m$  = Mid span displacement

$D_e$  = Average of end displacements

**Criteria:** According to AS/NZS4284:2008 no framing member shall deflect by an amount greater than span/250mm. Successive member displacement shall not exceed 3.0mm. The maximum displacement of a framing member shall not exceed 20mm. All components of the sample are required to remain structurally intact as detailed on test sample drawings with no signs of visible damage or distortion.

**Applied Load:** +3.0kPa, -3.5kPa

**Results:**

Span Detail	Span [mm]	Pressure direction	Measured pressure [Pa]	Measured Span Deflection [mm]	Span deflection Ratio
<b>Span 1</b> (Node 1,2,3)	1150	Positive	3021	1.19	966
		Negative	-3518	-1.58	730
<b>Span 2</b> (Node 3,4,5)	1150	Positive	3021	1.07	1080
		Negative	-3518	2.39	481
<b>Span 3</b> (Node 1,3,5)	2300	Positive	3021	7.30	315
		Negative	-3518	6.25	368

Table 4: Span deflection results - +3.0kPa, -3.5kPa

Zero Stage	Node 1 [mm]	Node 2 [mm]	Node 3 [mm]	Node 4 [mm]	Node 5 [mm]
<b>Z1</b>	0.00	0.00	0.00	0.00	0.00
<b>Z2</b>	0.13	0.21	0.21	0.17	0.06
<b>Z4</b>	-1.22	-1.89	-2.12	-1.81	-0.71
<b>Z5</b>	-1.37	-2.05	-2.29	-1.95	-0.76
<b>Z7</b>	0.01	0.01	-0.03	-0.05	-0.02

Table 5: Residual deflection result - +3.0kPa, -3.5kPa



*Figure 2: Node locations (1-5 from bottom to top)*

**Conclusion:** The test sampled complied with the structural span deflections limits of  $\text{Span}/250$ .

### 5.3 CLAUSE 8.5 – STATIC WATER TEST

**Test Standard:** AS/NZS 4284:2008 – Testing of Building Facades

**Test Date:** 05/02/2020

**Criteria:** Under static water test there shall be no leaks. A leak is considered to occur when one or more of the following occur:

- a) Water appears on any inside surface of the façade and is visible from an occupied space.
- b) Uncontrolled water appears on any inside surface of the façade.
- c) Water appears that is likely to wet insulation, fixtures and finishes.
- d) Water appears in other locations specified as unacceptable by the Specifier

**Applied Load:** Nominated Pressure: +1.050 kPa

Duration: water spray operated for 5 minutes at 0 kPa chamber pressure, followed by water spray and pressure at the test pressure for 15 minutes. Observe for 5 minutes after removal of both water and air pressure.

**Applied Water:** Water spray rate: 3.0 L/m<sup>2</sup>min

Measured spray area (inside pressure chamber): 8.64 m<sup>2</sup>

Resulting spray flow rate: 25.9 l/min

**Results:** The Static water test was completed with no uncontrolled water penetration occurring.

**Conclusion:** The Static water results of the test sample comply with the specified limits set out in AS/NZS 4284:2008.

**5.4 CLAUSE 8.6 – CYCLIC WATER TEST**

**Test Standard:** AS/NZS 4284:2008 – Testing of Building Facades

**Test Date:** 05/02/2020

**Criteria:** Under cyclic water test there shall be no leaks. A leak is considered to occur when one or more of the following occur:

- a) Water appears on any inside surface of the façade and is visible from an occupied space.
- b) Uncontrolled water appears on any inside surface of the façade.
- c) Water appears that is likely to wet insulation, fixtures and finishes.
- d) Water appears in other locations specified as unacceptable by the Specifier

**Applied Load:** Nominated Pressures:

Stage	Lower pressure	Upper pressure	Cycle Duration
Stage 1	0.525 kPa	1.050 kPa	5 minutes
	0 kPa		2 minutes
Stage 2	0.700 kPa	1.400 kPa	5 minutes
	0 kPa		2 minutes
Stage 3	1.050 kPa	2.100 kPa	5 minutes
Observation	0 kPa		5 minutes

*Table 8: Cyclic pressure lower and upper limits, cycle time of 3 seconds to 5 seconds*

**Applied Water:** Water spray rate: 3.0 L/m<sup>2</sup>min

Measured spray area (inside pressure chamber): 8.64 m<sup>2</sup>

Resulting spray flow rate: 25.9 l/min

**Results:** The Cyclic water test was completed with the test was completed with no uncontrolled water penetration occurring.

**Conclusion:** The Cyclic water results of the test sample comply with the specified limits set out in AS/NZS 4284:2008.

**5.5 CLAUSE 8.8 – STRUCTURAL TEST AT THE ULTIMATE LIMIT STATE**

**Test Standard:** AS/NZS 4284:2008 – Testing of Building Facades

**Test Date:** 05/02/2020

**Criteria:** There shall be no disengagement or partial disengagement of any framing member or panel, no failure of fixings, stops or locking devices. No repeated glass breakage or cracking of glass.

**Applied Load:** Ultimate Limit State Pressures: +5.0 kPa, -6.0kPa  
Apply the pressure from zero to ultimate limit state in 50-60 seconds, apply ultimate limit state for 10 seconds.

**Results:**

Test Pressure [kPa]	Results
+ 5.1	All criteria met
- 6.1	All criteria met

*Table 9: Results, Ultimate Limit State*

**Conclusion:** The Ultimate limit state results of the test sample comply with the requirements of AS/NZS 4284:2008.

## 6 TEST RESULTS NZBC E2/VM1

Test	Result
<b>Series 1: Static Water Penetration</b> Test pressure 455 Pa Duration 15 minutes	<b>Compliant</b>
<b>Series 1: Cyclic Water Penetration</b> Test pressure 455 – 910 Pa Duration 5 minutes	<b>Compliant</b>
<b>Series 2: Water Management Tests</b> <b>Static Water Penetration</b> Test pressure 455 Pa Duration 15 minutes	<b>Compliant</b> *Appendix A has images of the locations of the water management holes introduced to the sample
<b>Series 2: Water Management Tests</b> <b>Cyclic Water Penetration</b> Test pressure 455 – 910 Pa Duration 5 minutes	<b>Compliant</b> *Appendix A has images of the locations of the water management holes introduced to the sample
<b>Series 3: Wetwall Test</b> <b>Static Water Penetration</b> Test pressure 50 Pa Duration 15 minutes	<b>Compliant</b>
<b>Additional water penetration requirements</b>	<b>N/A</b>
<b>Comments</b>	A leak was observed in the top left corner of the test sample during testing. This leak was observed to be between the perimeter of the sample and the test rig. As this was not representative of a typical install, this leak did not affect the compliance of the sample.

Table 10: E2/VM1 Results

## Appendix A E2/VM1 WATER MANAGEMENT HOLES



Figure 3: 8mm hole at 3/4 window height



Figure 4: 8mm hole above horizontal control joint

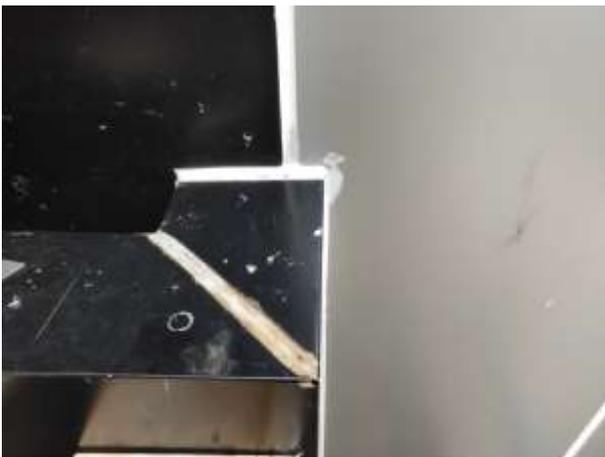


Figure 5: 8mm hole above parapet feature



Figure 6: 8mm hole in panel joint caulking

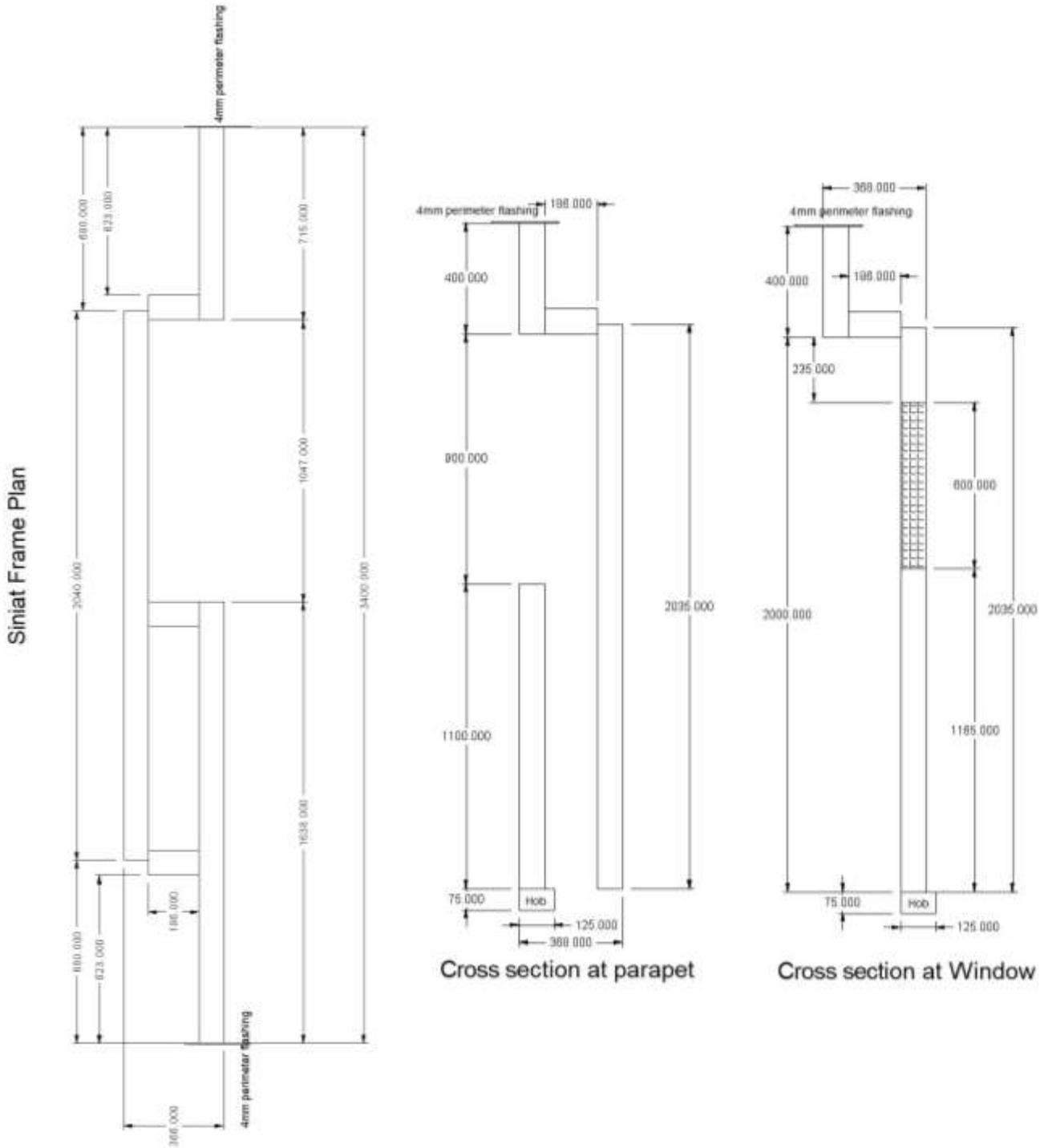


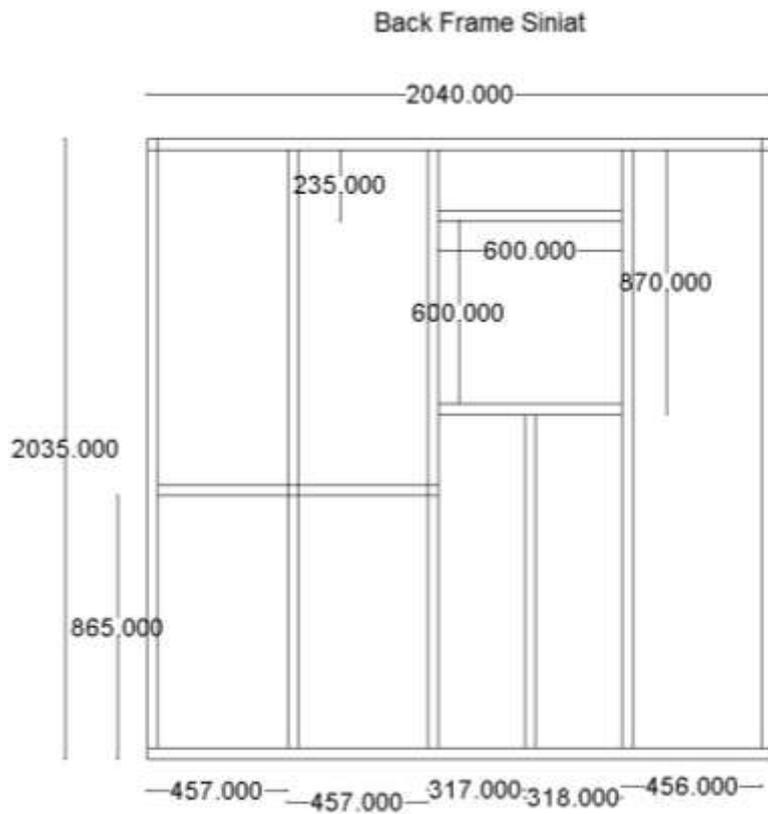
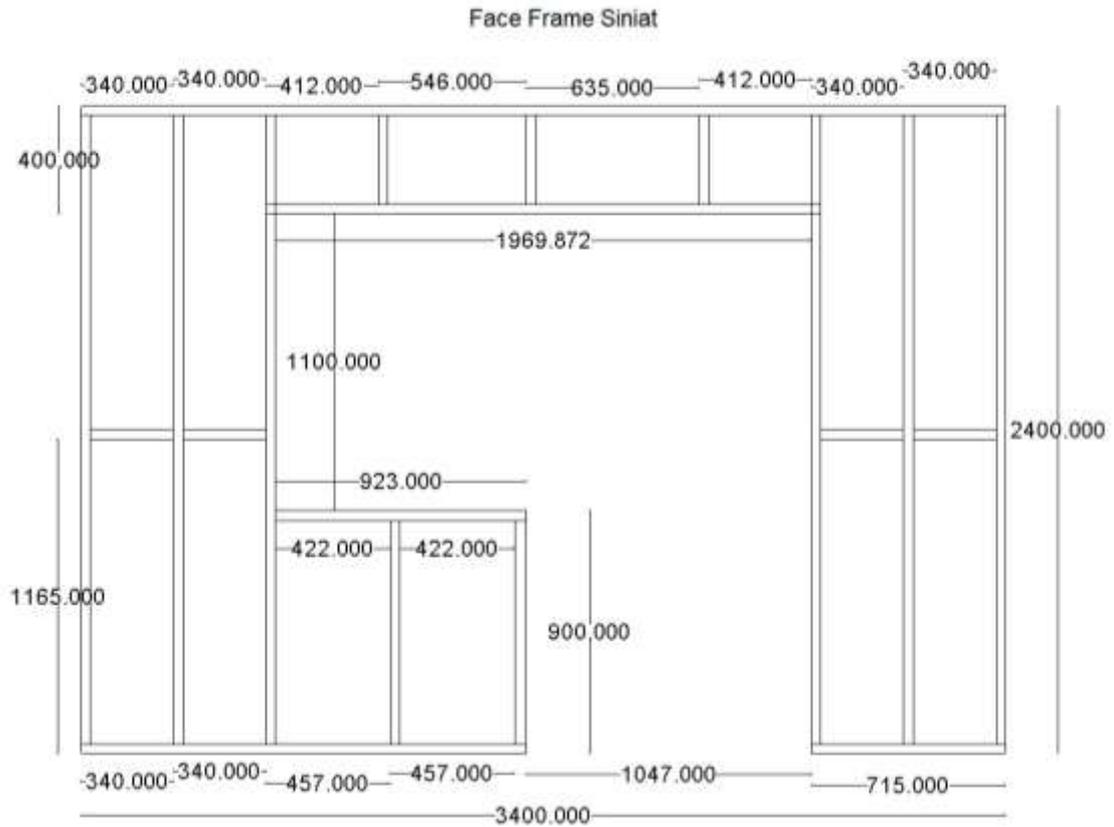
Figure 7: 8mm hole above pipe penetration



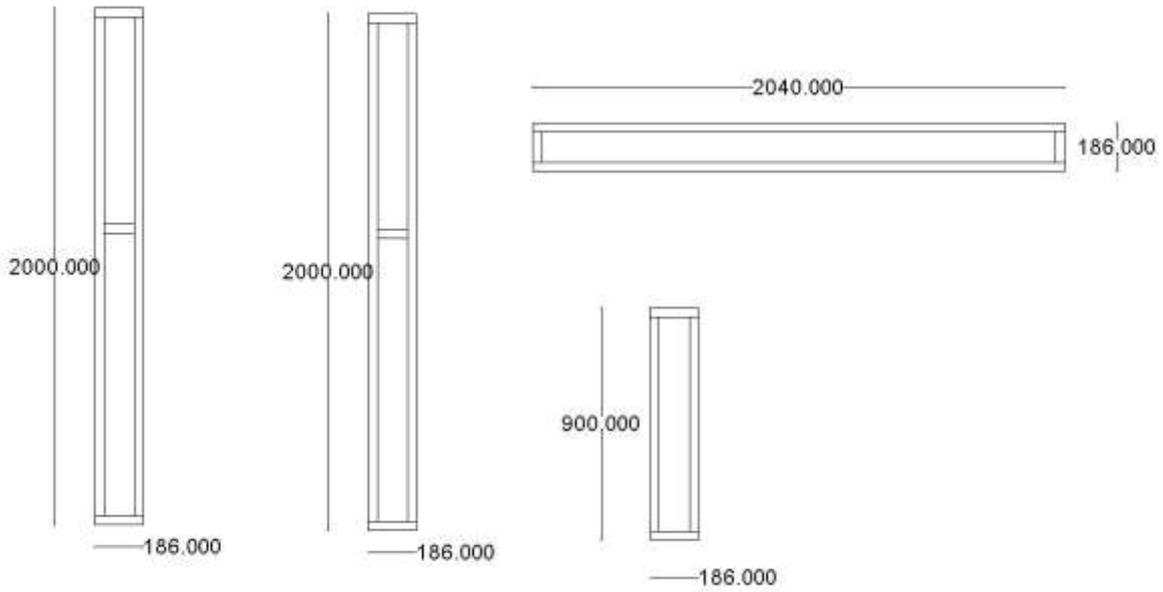
Figure 8: 8mm hole at 3/4 window height in caulking

## Appendix B TEST SAMPLE STRUCTURE





Infills Siniat

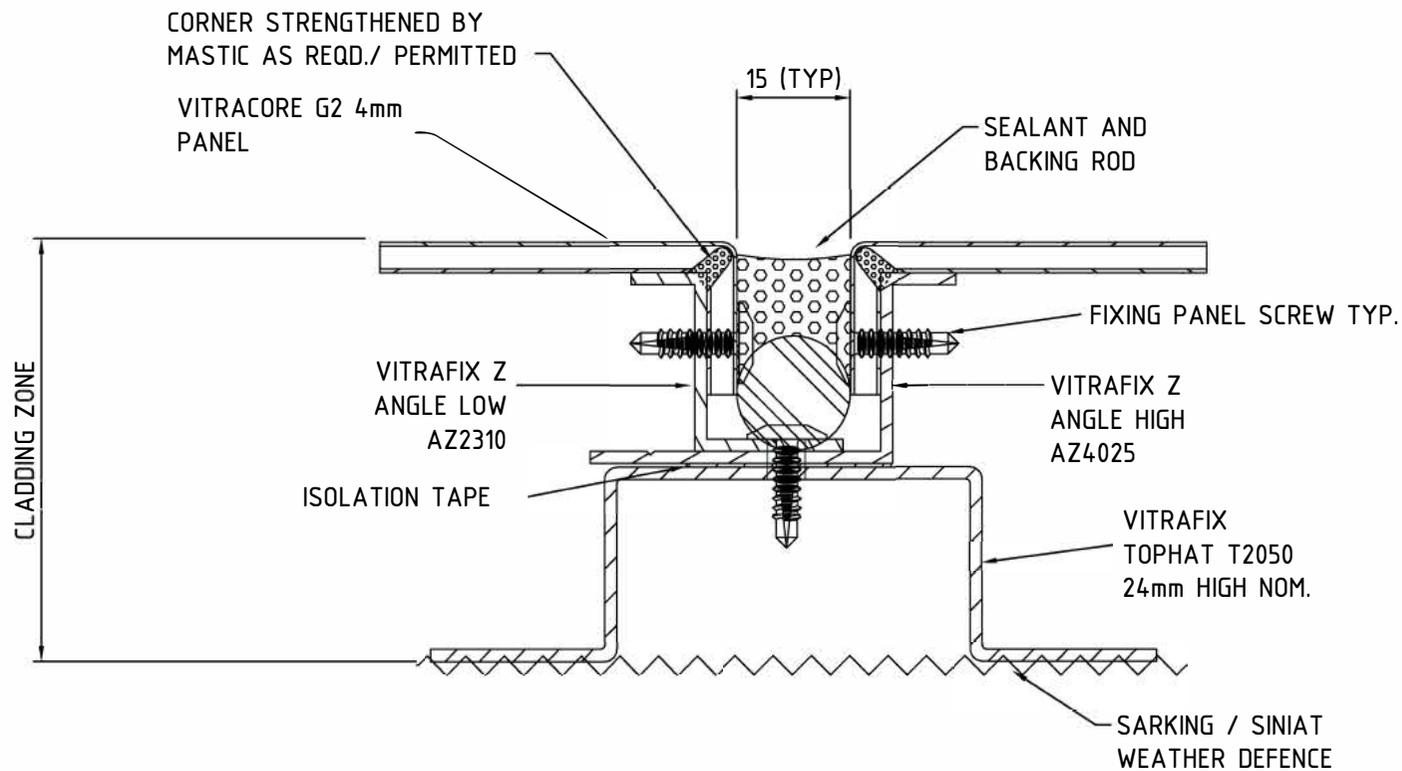




## **Appendix C TEST SAMPLE DETAILS**

This page is blank and the details are attached in the following pages.

# **VITRACORE G2 AS4284 INSTALLATION DETAILS**



## 1. TYPICAL VERTICAL PANEL JOINT DETAIL



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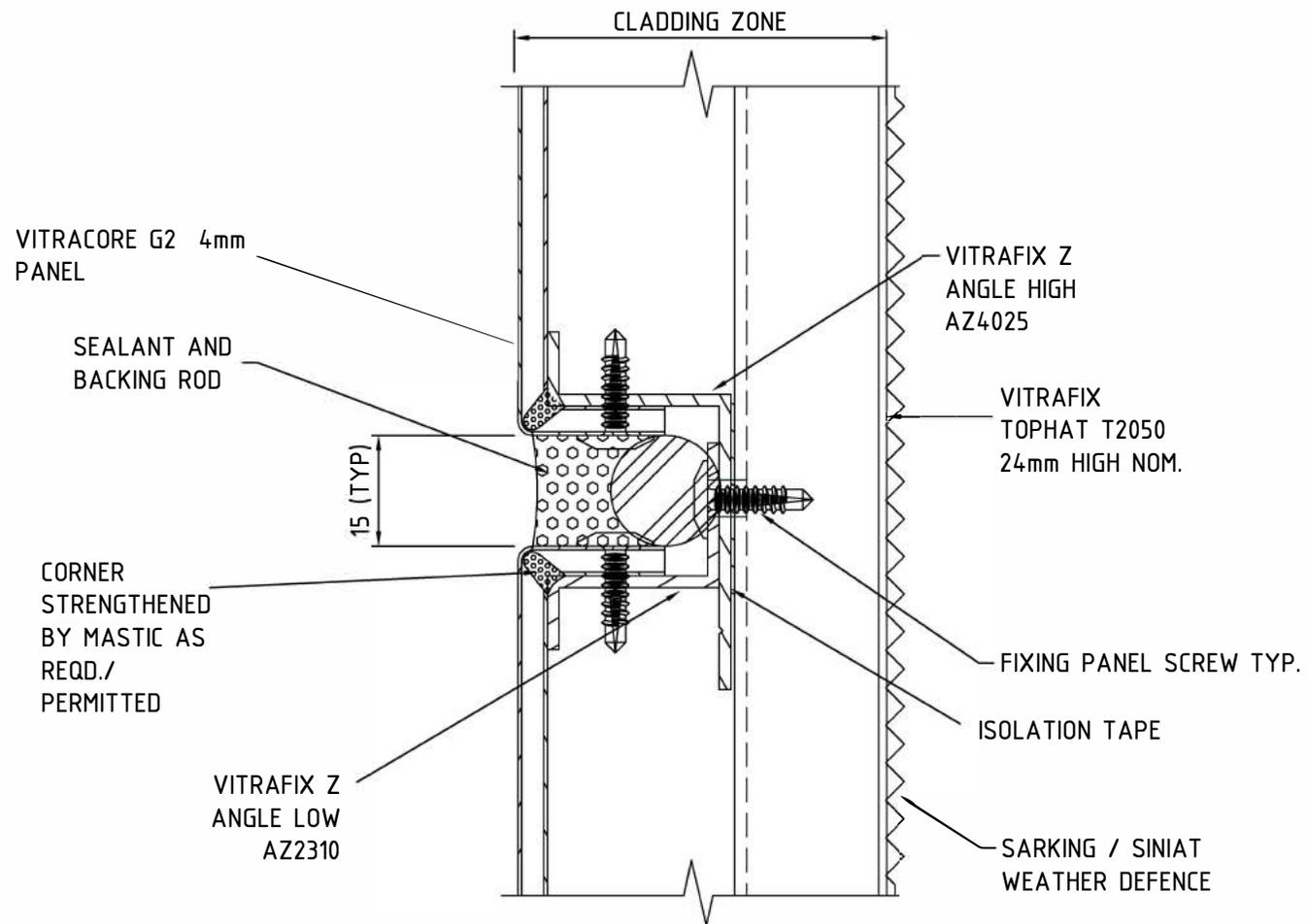
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## 2. HORIZONTAL JOINT DETAIL

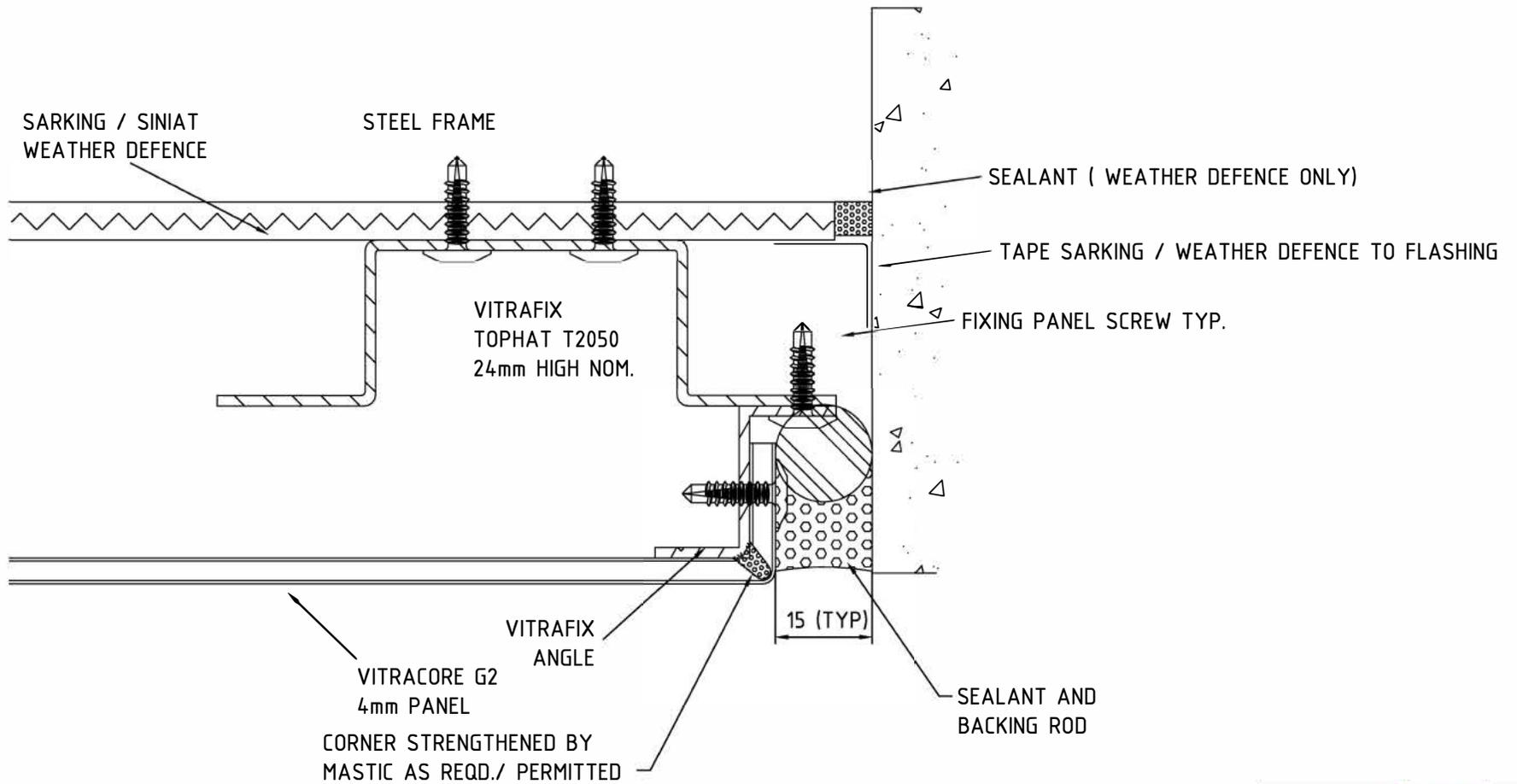


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### 3. WALL JUNCTION DETAIL



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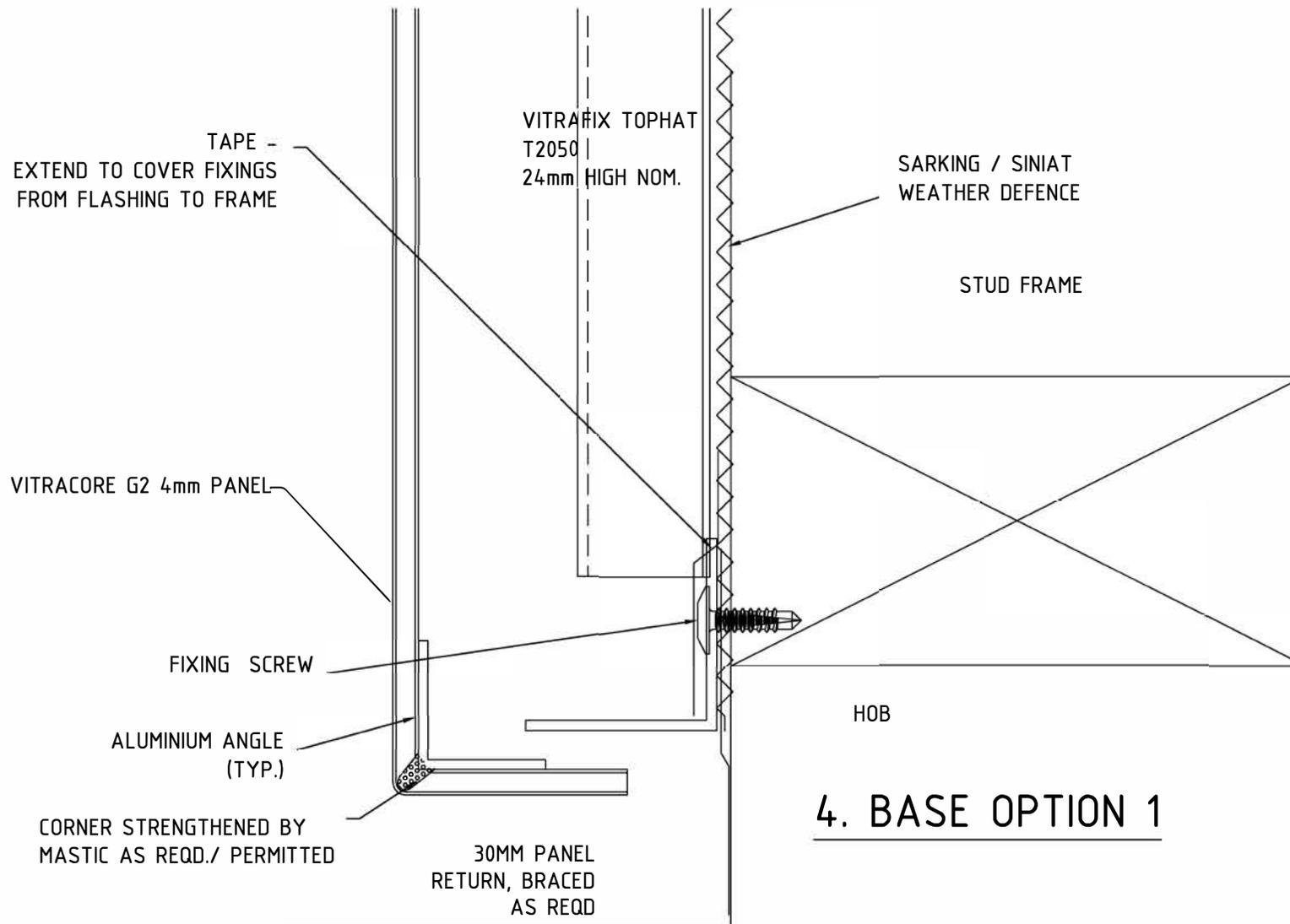
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FIXING SCREW TYP.

VITRACORE G2 4mm  
PANEL

LINE OF CASSETTE  
SYSTEM BELOW

BRACING ANGLE  
ADHERED AS REQD./  
PERMITTED

CORNER STRENGTHENED BY  
MASTIC AS REQD./ PERMITTED

FIXING TO  
STRUCTURE  
TO ENGINEERS  
DETAIL

SARKING / SINIAT  
WEATHER DEFENCE

STEEL STRUCTURE

PACKING AS REQD

VITRAFIX  
TOPHAT T2050  
24mm HIGH NOM.

ISOLATION  
TAPE

## 5. EXTERNAL CORNER DETAIL

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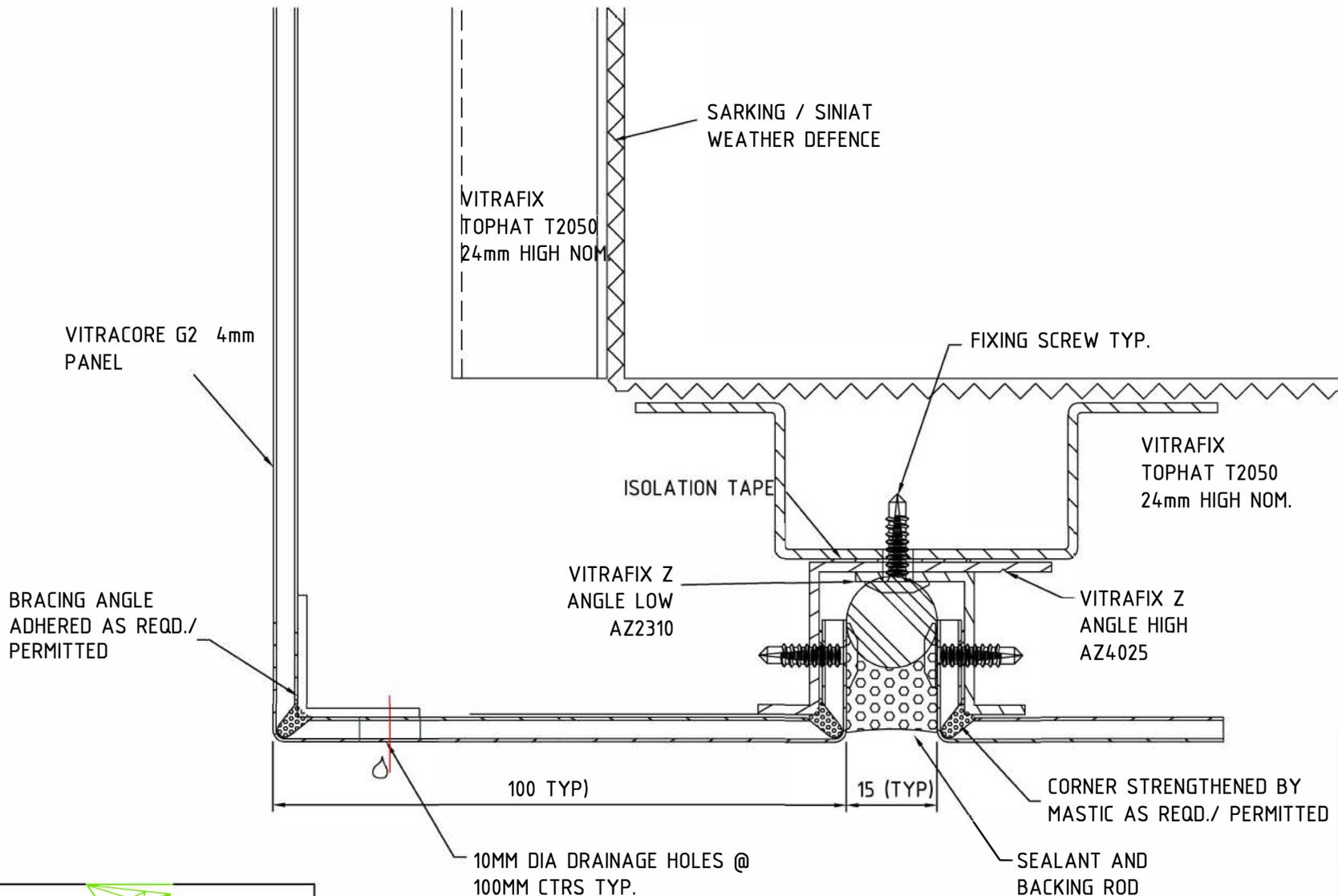
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## 6. DETAIL AT SOFFIT JUNCTION

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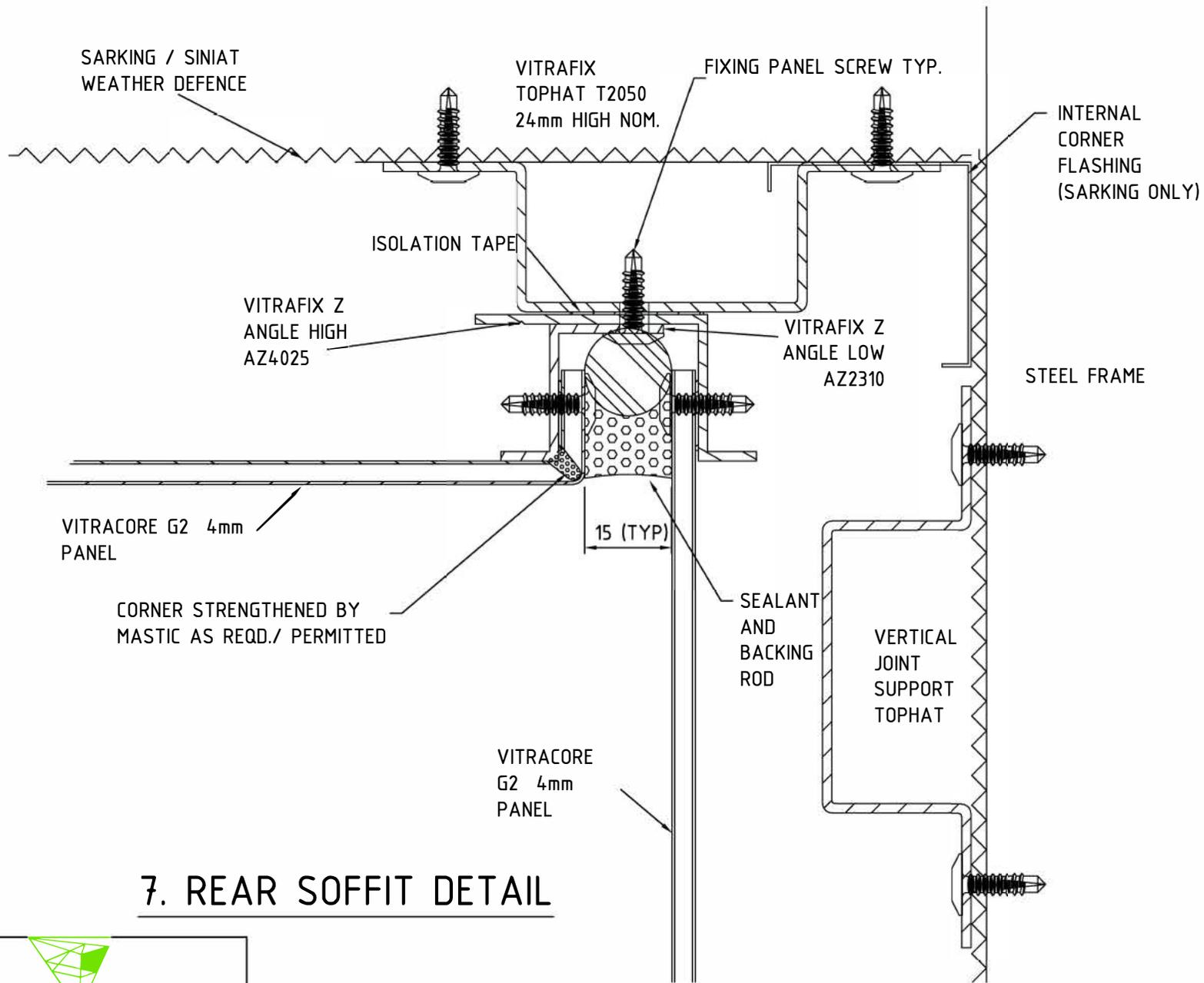
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## 7. REAR SOFFIT DETAIL



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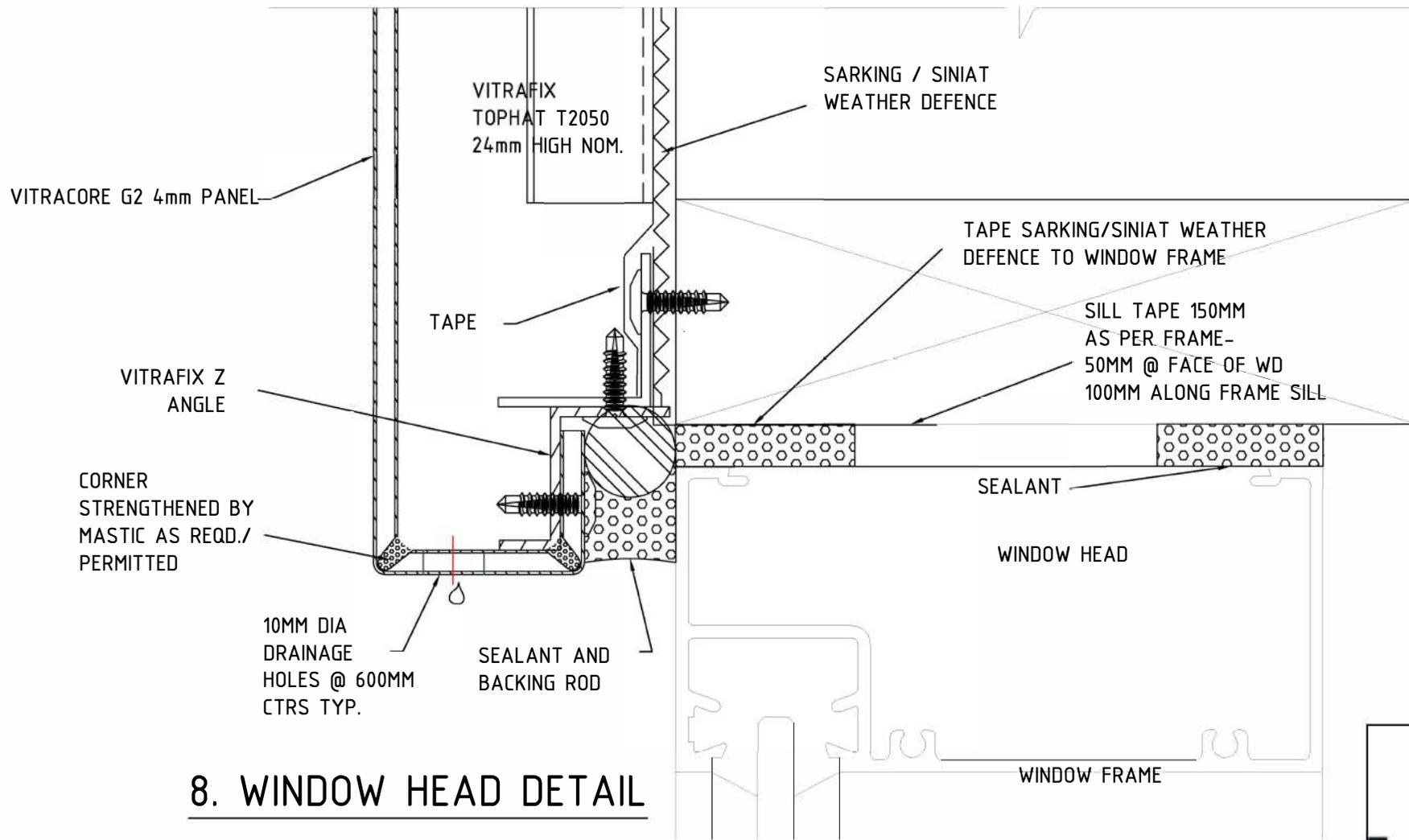
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## 8. WINDOW HEAD DETAIL

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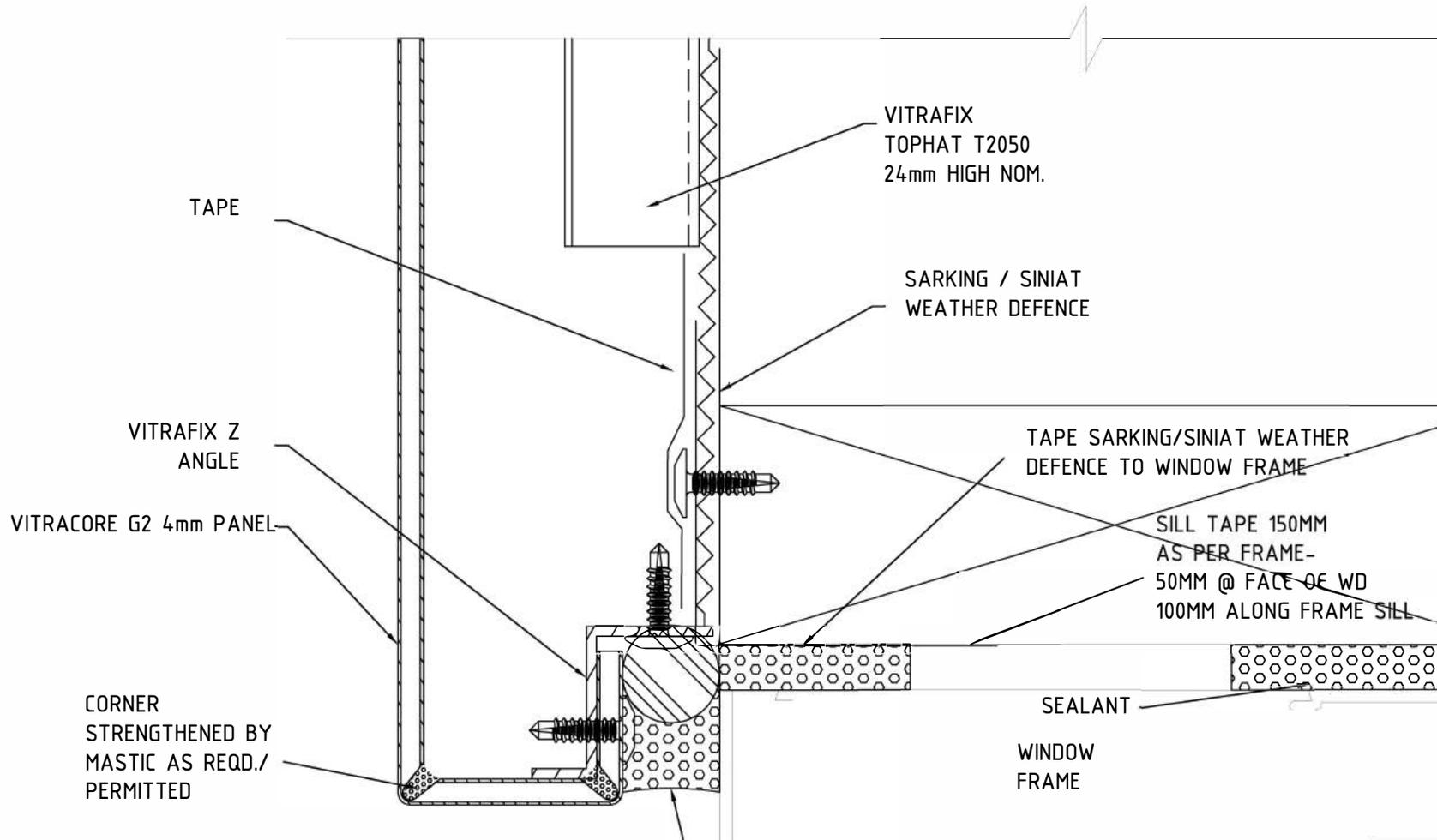
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## 9. WINDOW JAMB DETAIL



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FULL SEAL AT LHS AND  
RHS OF SILL TO PREVENT  
WATER TRACKING  
LATERALLY INTO CAVITY

WINDOW SILL

SILL TAPE 150MM  
AS PER FRAME-  
50MM @ FACE OF WD  
100MM ALONG FRAME SILL

TAPE

FIXING PANEL SCREW TYP.  
SEALANT

STEEL FRAME

CORNER  
STRENGTHENED BY  
MASTIC AS REQD./  
PERMITTED

SARKING / SINIAT  
WEATHER DEFENCE

VITRACORE G2 4mm PANEL

VITRAFIX TOPHAT T2050  
24mm HIGH NOM.

## 10. WINDOW SILL DETAIL

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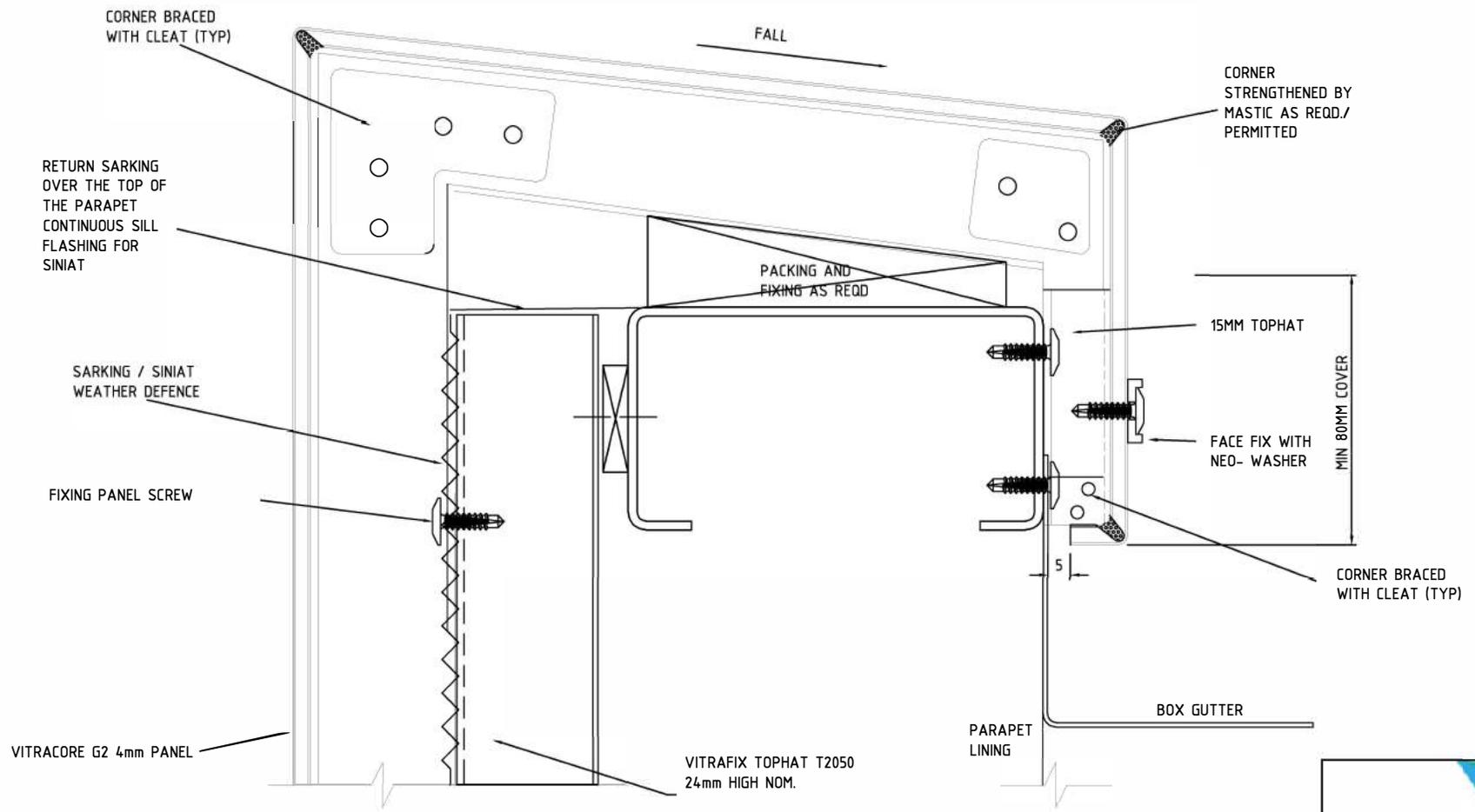


**FAIRVIEW**

DEFINING ARCHITECTURE SINCE 1988

18-20 Donald St  
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P: 02 6352 2355

E: [helpdesk@fairviewarch.com](mailto:helpdesk@fairviewarch.com)  
W: [www.fairviewarchitectural.com](http://www.fairviewarchitectural.com)



**11. PARAPET CAPPING DETAIL**



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as deemed by the BCA

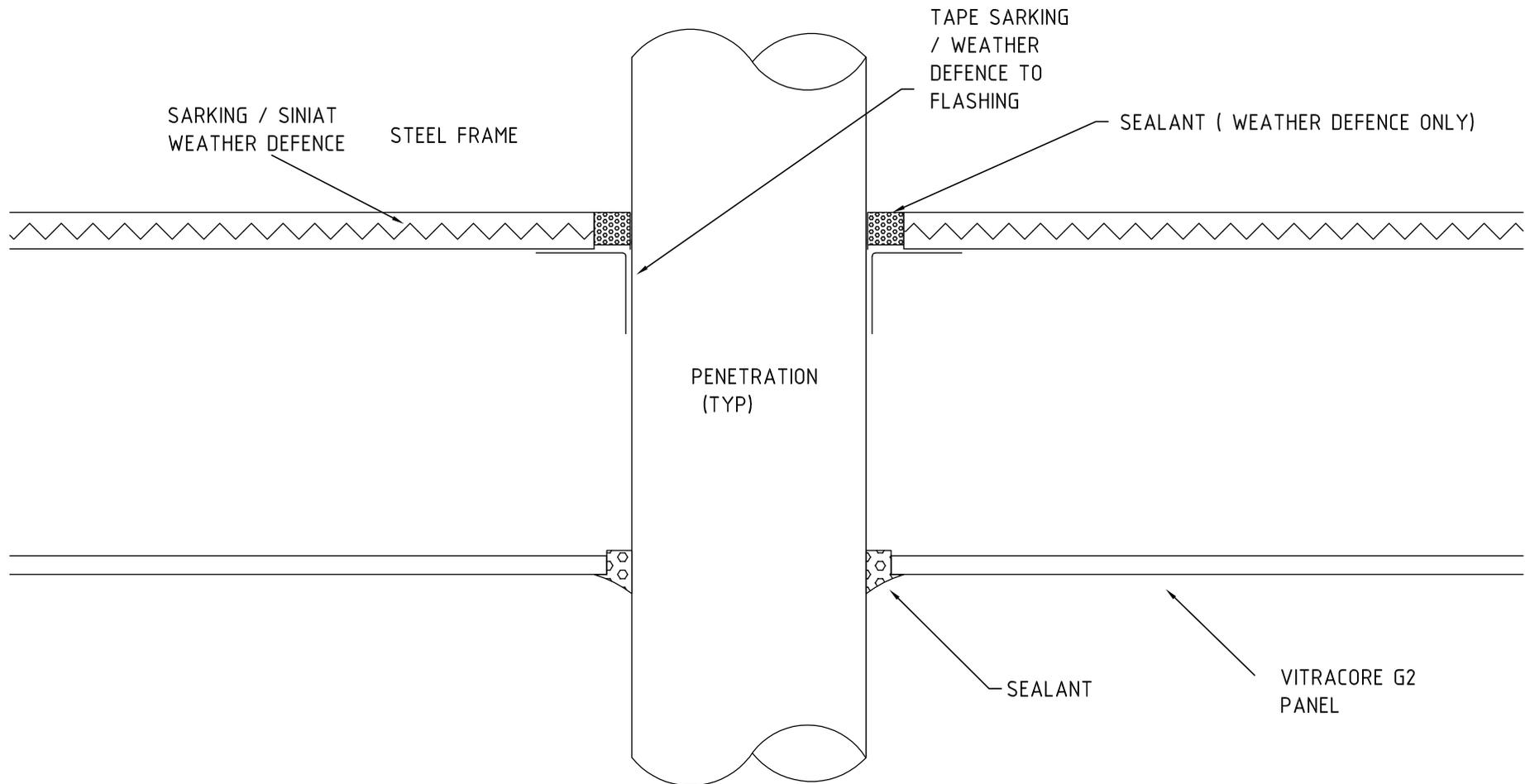
**Disclaimer:**  
These details are limited to the generalised design specification for VITRACORE G2, and are intended for use by a technically skilled person only. Any use of the same is at their own discretion and risk



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## 12. TYPICAL PENETRATION DETAIL



**vitracore G2**

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**END OF REPORT**