Building Science Summit New Zealand

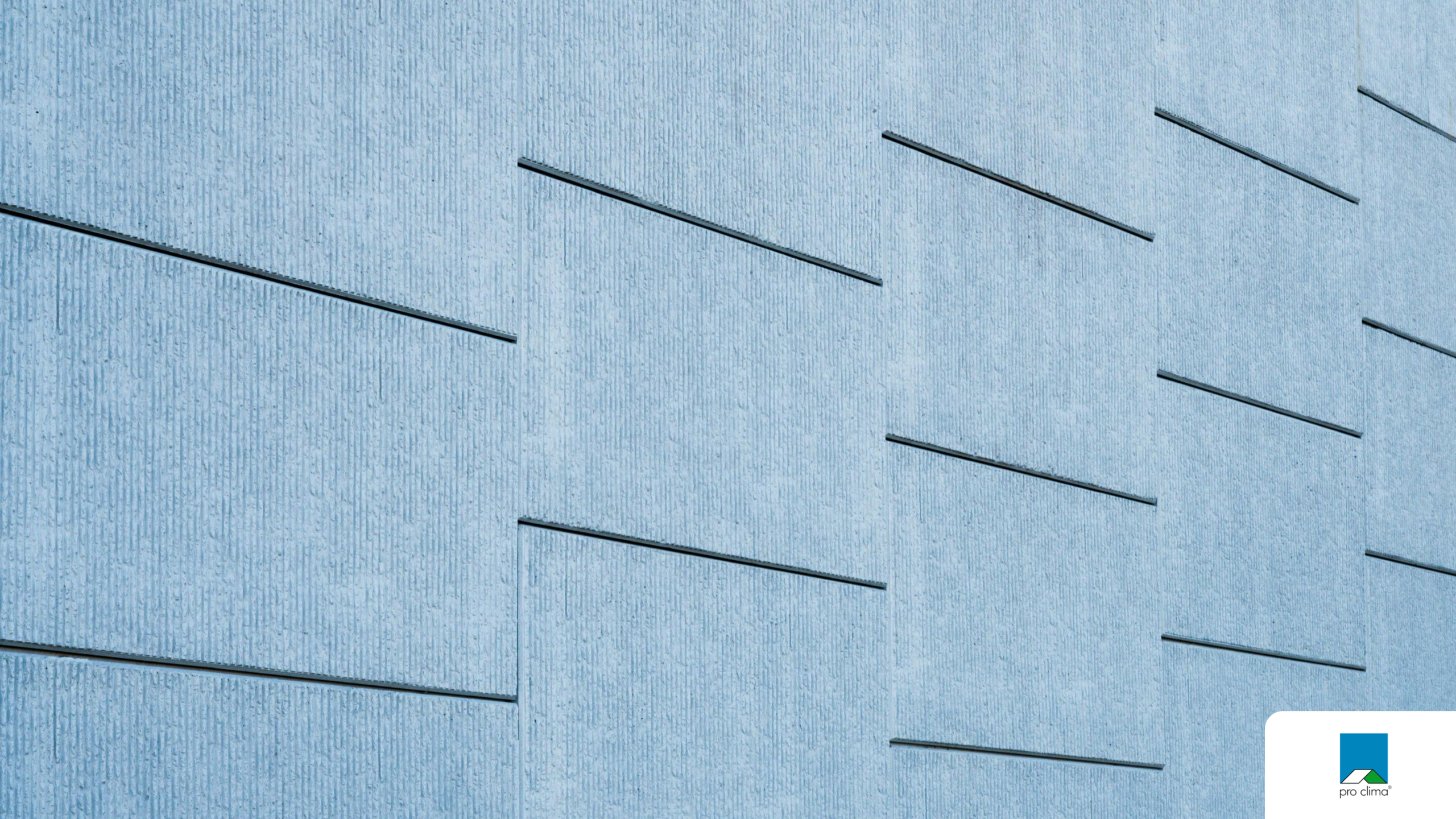
Jesse Clarke

It’s all a Façade

Pro Clima

It’s All a Facade

Jesse Clarke



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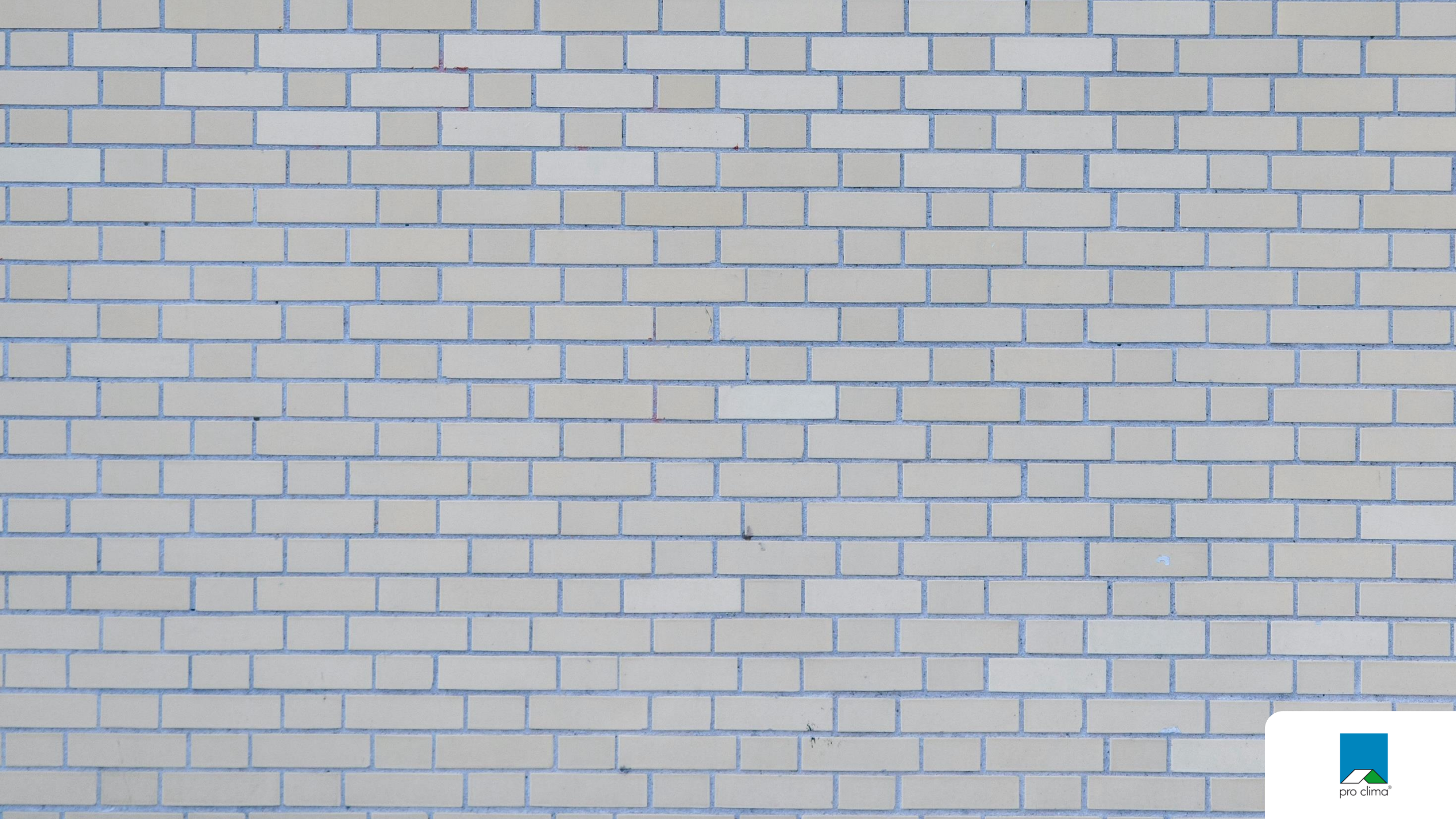

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Facades 1

The risks

New Zealand Experience
External moisture and internal moisture

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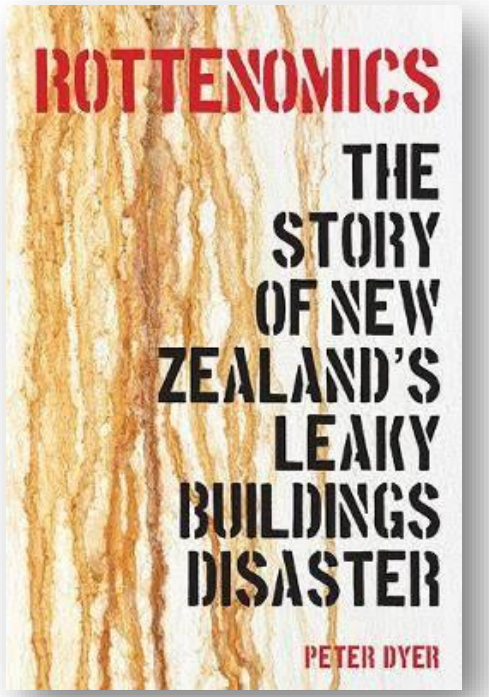
The School of Hard Knocks (New Zealand University of Life)



Rottenomics: The Story of New Zealand's Leaky Buildings Disaster, Peter Dyer, 2019

$47b

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From: [redacted]
To: "welcome" <welcome@proclima.com.au>
Cc: [redacted]
Sent: Friday, 2 May, 2025 12:25:20 PM
Subject: Condensation modelling and expert witness request [CU-L.FID4214125]

Hi ProClima AU

I am a construction lawyer at [redacted] assisting with a stalled major project affected by water ingress. As part of the causal analysis, we are investigating the façade design and construction, and the possible condensation buildup therein. We understand that within your company, Jesse Clarke has experience performing WUFI condensation modelling. Is that correct?

We need an expert witness to perform condensation modelling, prepare an expert report and give evidence on the results in an arbitral hearing late next year. If Jesse is interested in the role, can you please provide us with his rates and CV?

If you require further information or have any questions, please let me know.

Kind regards

[redacted]
Graduate at Law
[redacted]

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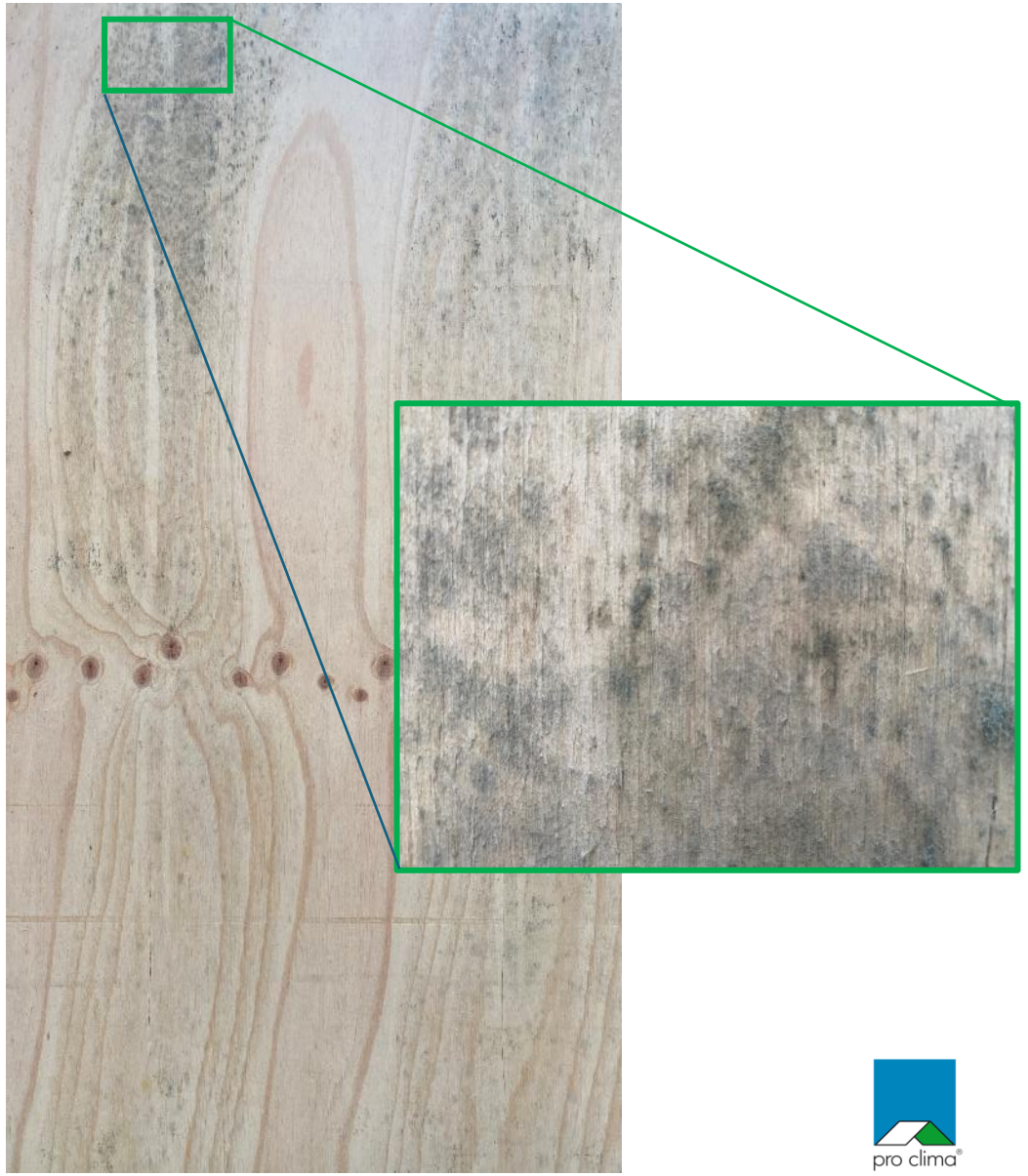
Design is more than just R Values



MI = 0 No growth

Descriptions of Mould Index as described in AIRAH DA07. Originally derived from experimental results by Finnish research institute VTT and the Fraunhofer Institute for Building Physics.

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MI = 2 Several local mould growth colonies on surface (microscope)

Descriptions of Mould Index as described in AIRAH DA07. Originally derived from experimental results by Finnish research institute VTT and the Fraunhofer Institute for Building Physics.

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MI = 3 Visual findings of mould on surface, < 10 % coverage, or < 50 % coverage of mould (microscope)

Descriptions of Mould Index as described in AIRAH DA07. Originally derived from experimental results by Finnish research institute VTT and the Fraunhofer Institute for Building Physics.

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MI = 6 Heavy and tight growth, coverage about 100 %

Descriptions of Mould Index as described in AIRAH DA07. Originally derived from experimental results by Finnish research institute VTT and the Fraunhofer Institute for Building Physics.

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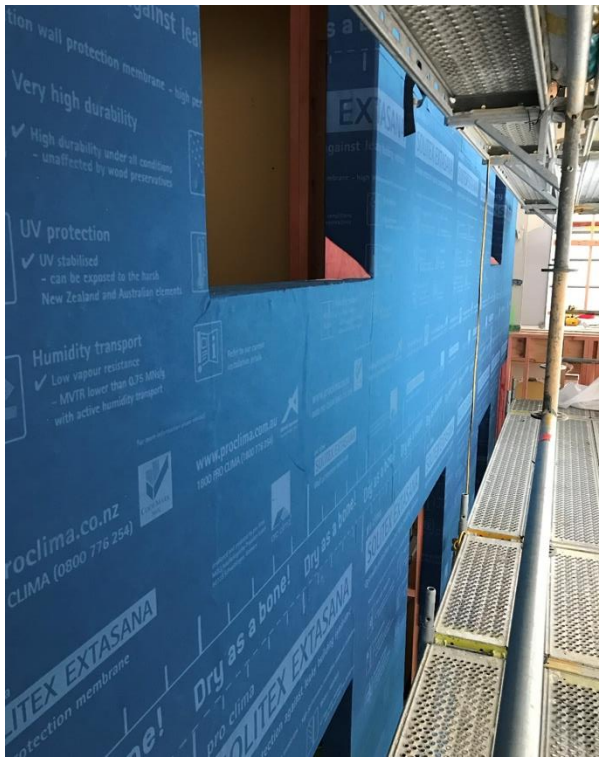
Weather Resistive Barriers (WRB)



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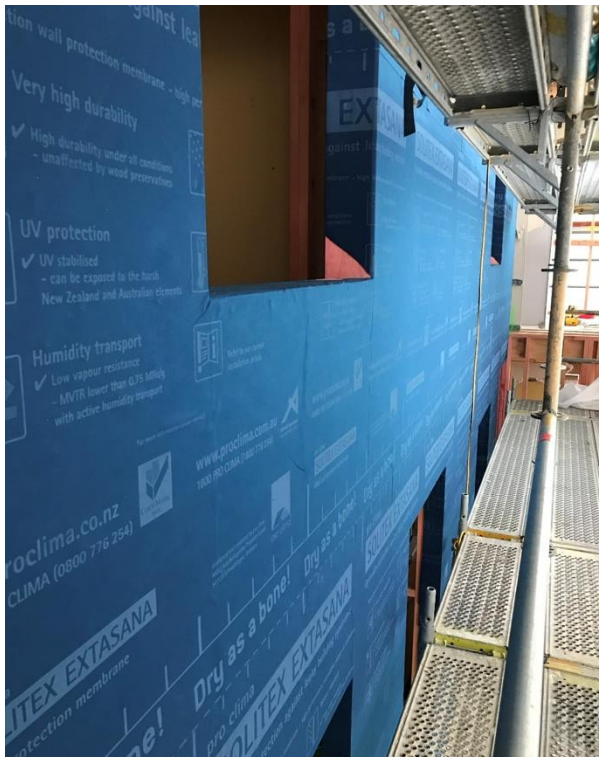
Rain & Water Vapour



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Facades 2

What are the building code requirements?

The building code requires suitable weatherproofing but requirements around prevention of entrapment of water vapour cannot be ignored.

Clause E2—External moisture

Provisions

Objective

E2.1 The objective of this provision is to safeguard people from illness or injury that could result from external moisture entering the *building*.

Functional requirement

E2.2 *Buildings* must be constructed to provide *adequate* resistance to penetration by, and the accumulation of, moisture from the outside.

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External Moisture NZBC – E2

Performance

E2.3.1 Roofs must shed precipitated moisture. In locations subject to snowfalls, roofs must also shed melted snow.

E2.3.2 Roofs and exterior walls must prevent the penetration of water that could cause undue dampness, damage to *building elements*, or both.

E2.3.3 Walls, floors, and structural elements in contact with, or in close proximity to, the ground must not absorb or transmit moisture in quantities that could cause undue dampness, damage to *building elements*, or both.

E2.3.4 *Building elements* susceptible to damage must be protected from the adverse effects of moisture entering the space below suspended floors.

E2.3.5 *Concealed spaces* and cavities in *buildings* must be constructed in a way that prevents external moisture being accumulated or transferred and causing condensation, fungal growth, or the degradation of *building elements*.

E2.3.6 Excess moisture present at the completion of *construction* must be capable of being dissipated without permanent damage to *building elements*.

E2.3.7 *Building elements* must be constructed in a way that makes due allowance for the following:

(a) the consequences of failure:

(b) the effects of uncertainties resulting from *construction* or from the sequence in which different aspects of *construction* occur:

(c) variation in the properties of materials and in the characteristics of the site.

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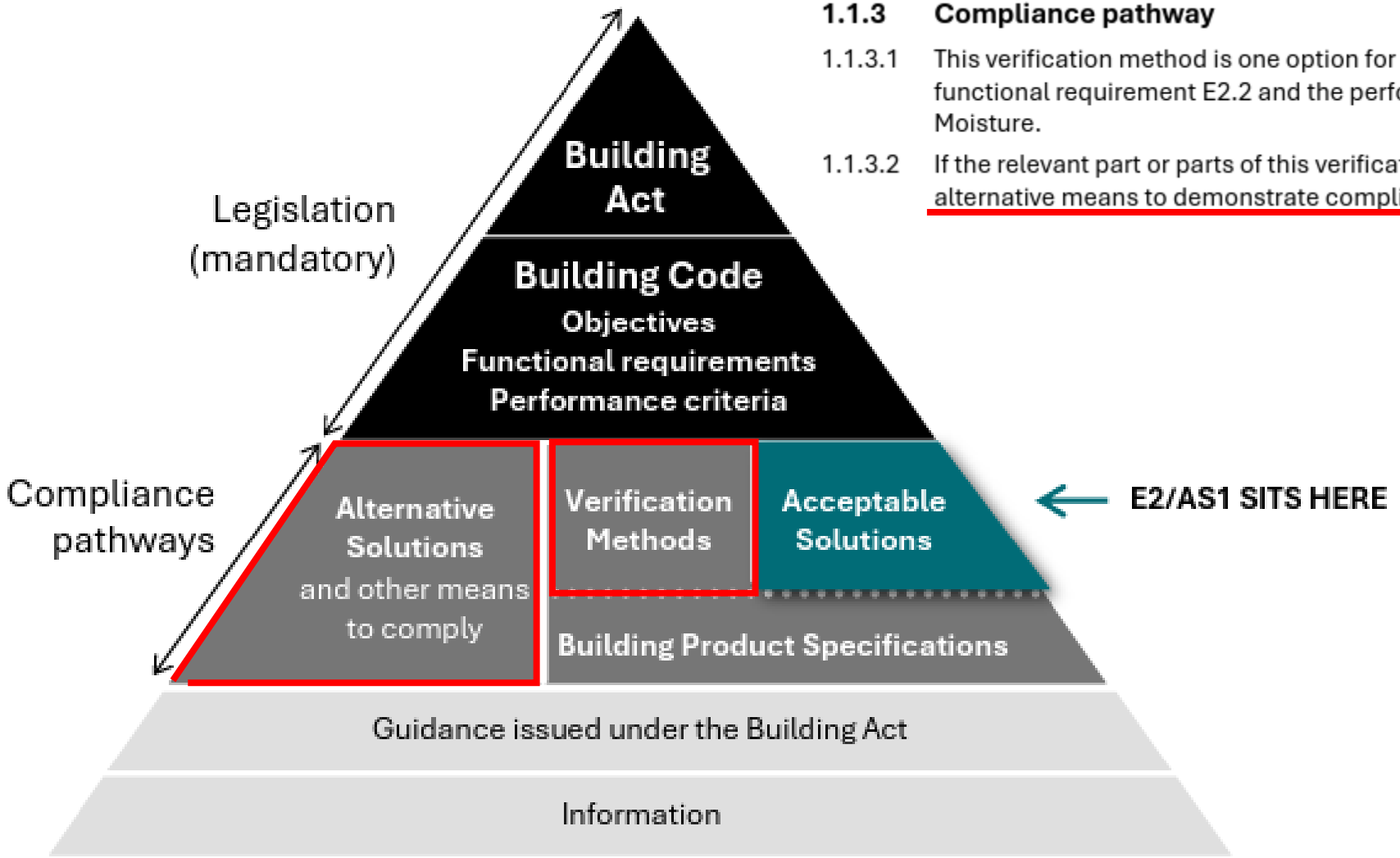
External Moisture NZBC – E2

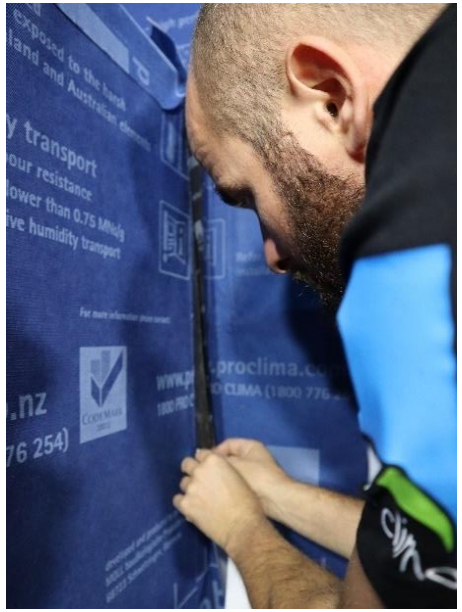


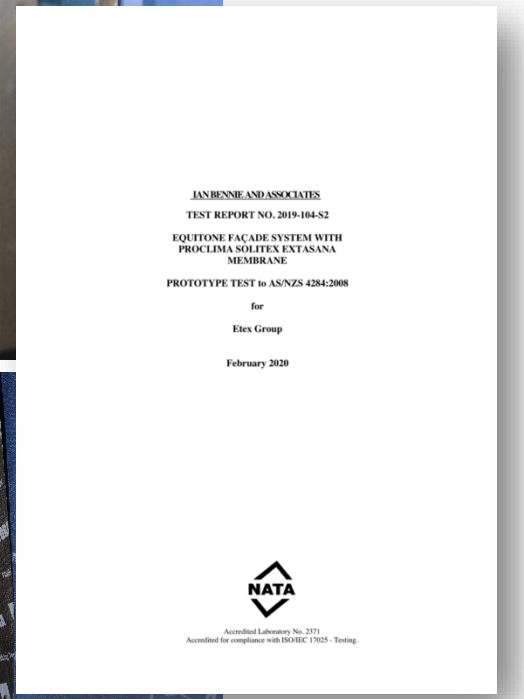
1.1.3 Compliance pathway

1.1.3.1 This verification method is one option for establishing compliance with the Building Code functional requirement E2.2 and the performance criterion in E2.3.2 in clause E2 External Moisture.

1.1.3.2 If the relevant part or parts of this verification method solution cannot be followed in full, use an alternative means to demonstrate compliance.

Full Scale Test Required




IAN BENNIE AND ASSOCIATES

TEST REPORT NO. 2019-104-S2

EQUITONE FAÇADE SYSTEM WITH PROCLIMA SOLITEX EXTASANA MEMBRANE

PROTOTYPE TEST to AS/NZS 4284:2008

for

Etex Group

February 2020

NATA

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

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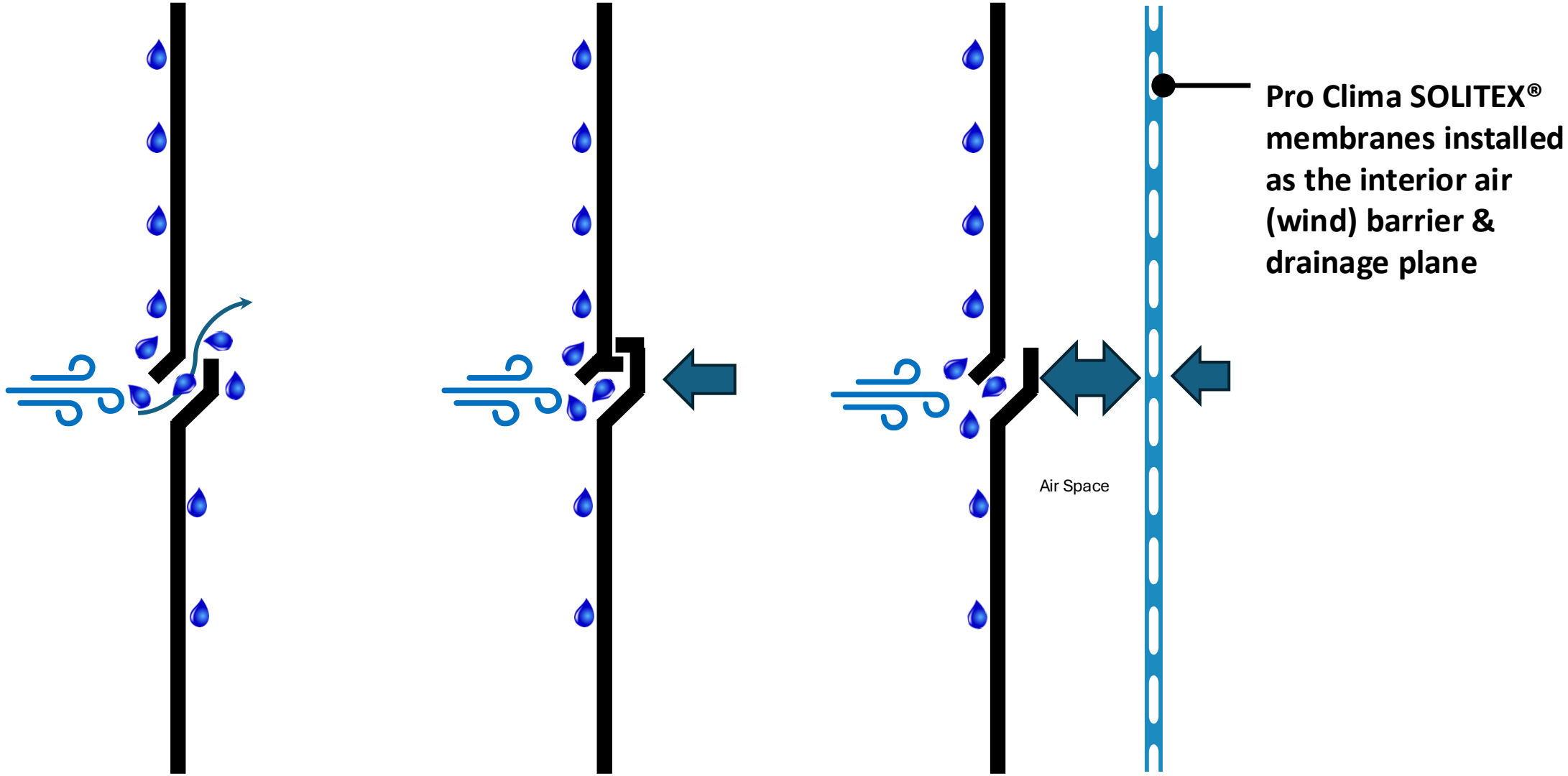
Facades 3

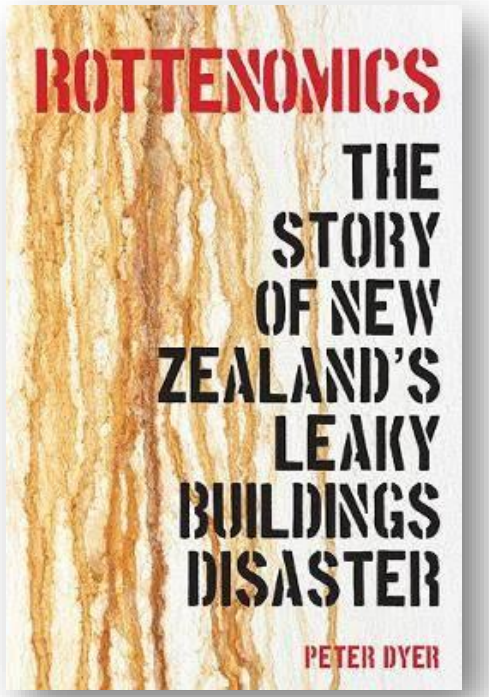
Cladding

Wind pressure cannot be underestimated.



Essential features of the rain screen and pressure equalized wall construction
(based on American Architectural Manufacturers Association, AAMA, 1971)

The School of Hard Knocks (New Zealand University of Life)



Rottenomics: The Story of New Zealand's Leaky Buildings Disaster, Peter Dyer, 2019

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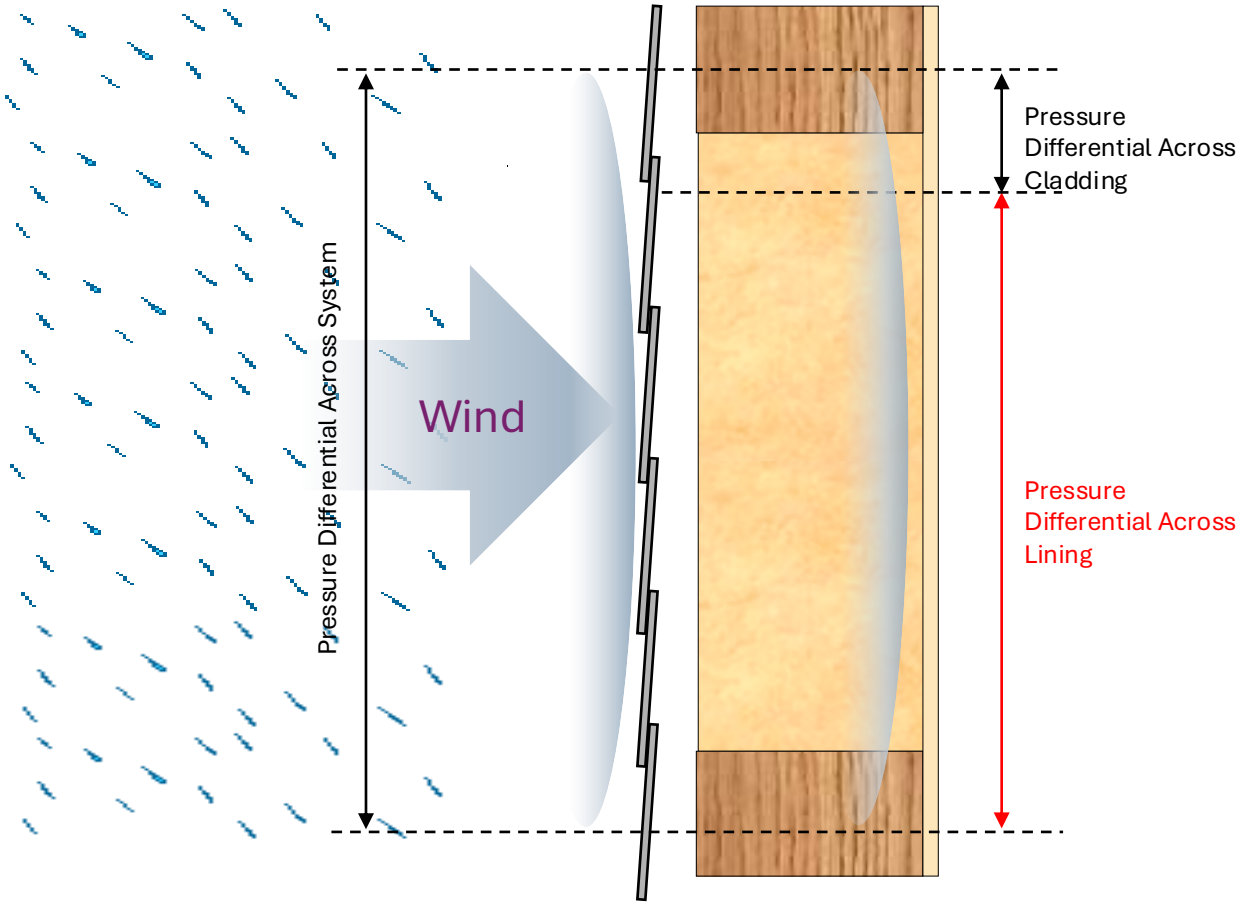
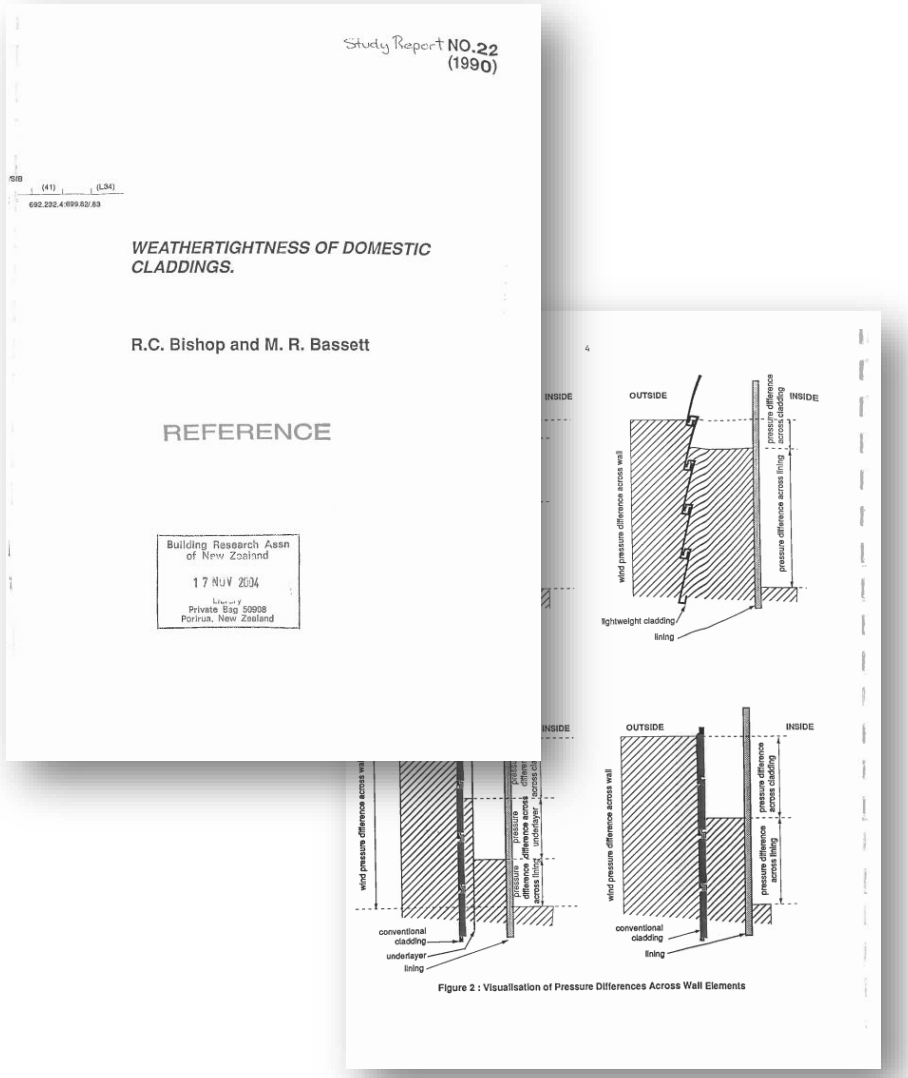
BRANZ 1990 – Weathertightness of Domestic Claddings



Only small pressure drop across the cladding. Plasterboard will need to take the wind load.


Study Report NO.22 (1990)

WEATHERTIGHTNESS OF DOMESTIC CLADDINGS.

R.C. Bishop and M. R. Bassett

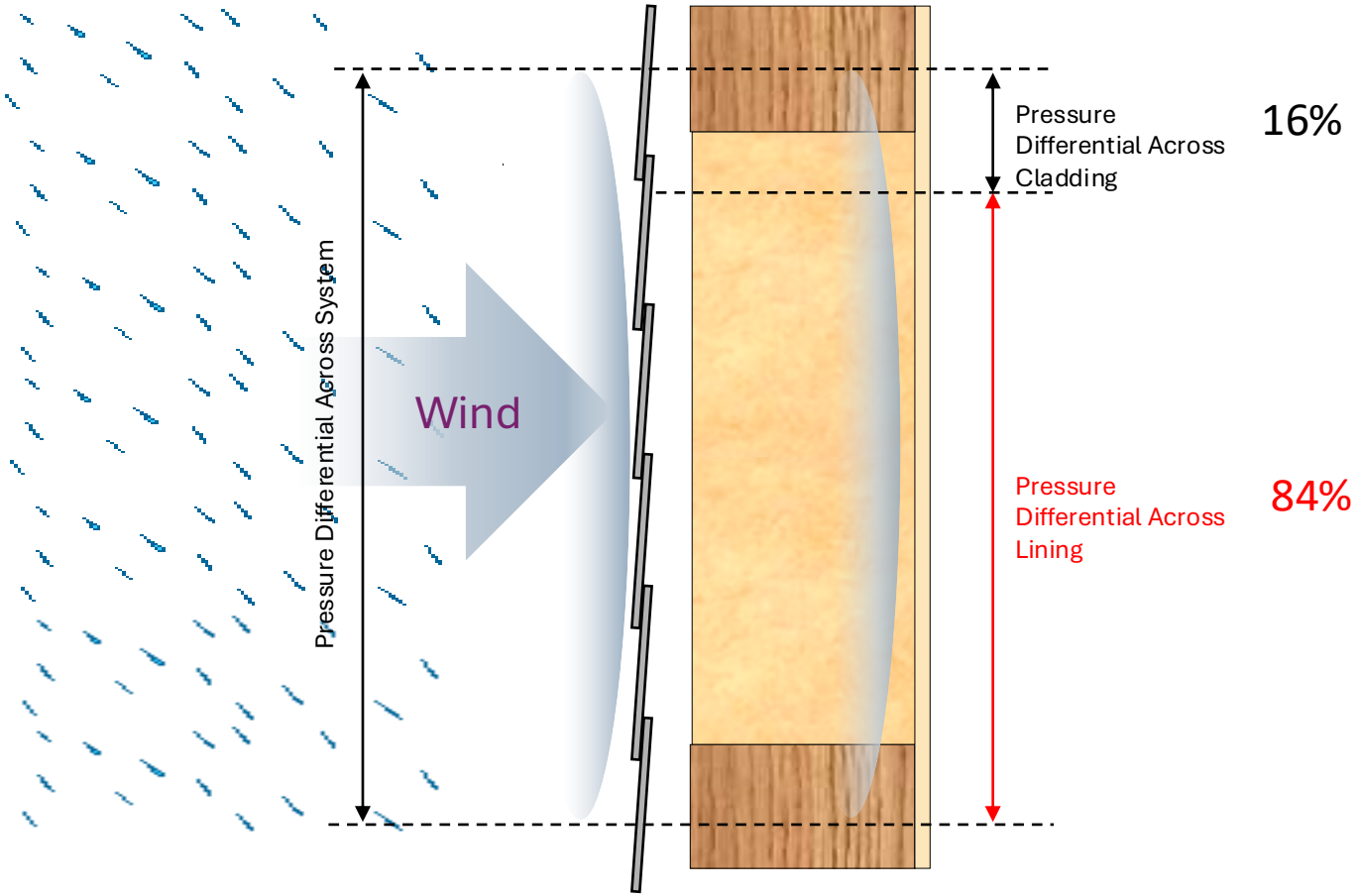
REFERENCE

Building Research Assn of New Zealand
17 NOV 2004
Private Bag 50908 Porirua, New Zealand

Figure 2 : Visualisation of Pressure Differences Across Wall Elements

Weathertightness of Domestic Claddings.
R.C Bishop and M. R. Bassett, 1990

BRANZ 1990 – Weathertightness of Domestic Claddings



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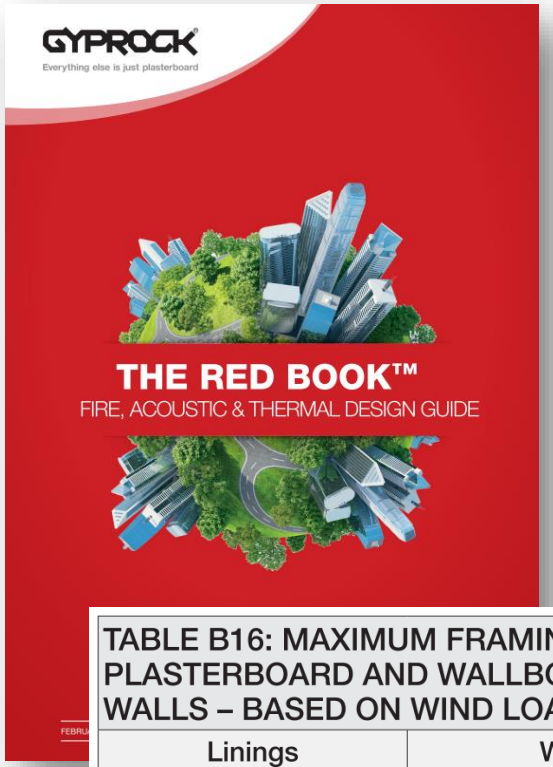
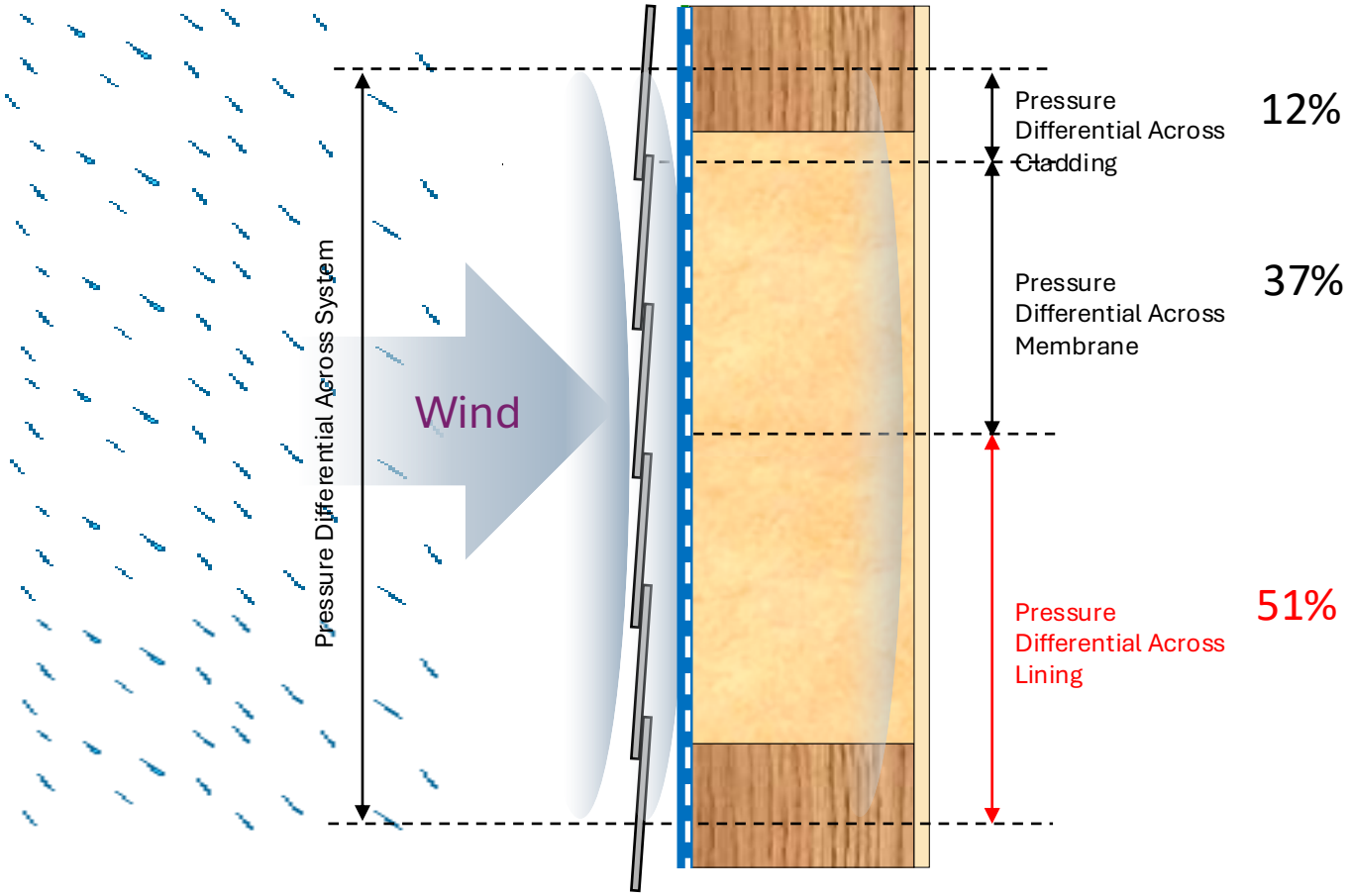


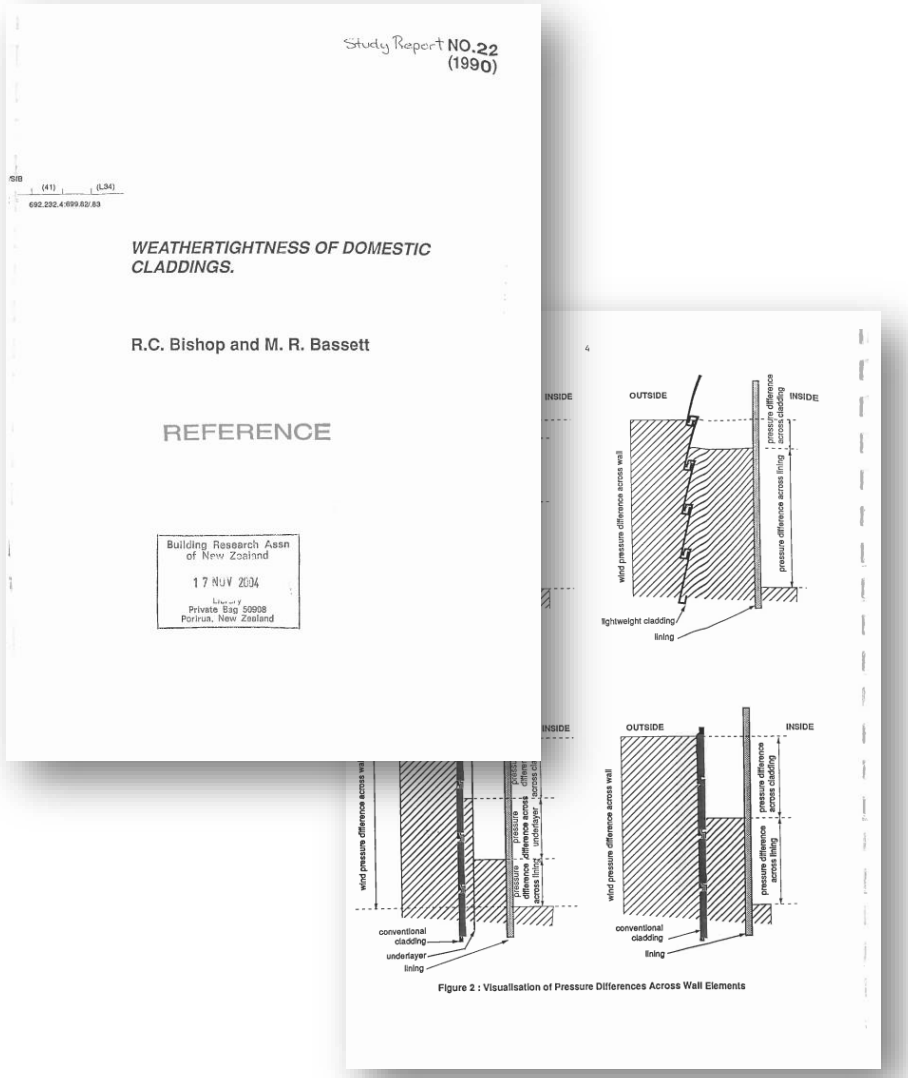
TABLE B16: MAXIMUM FRAMING CENTRES FOR PLASTERBOARD AND WALLBOARD LININGS ON WALLS – BASED ON WIND LOADS

Linings (horizontal or vertical sheet orientation)	Wind Load (kPa) Ult.		
	0.25	0.50	0.75
10mm Gyprock Plus	600	600	450
Other 10mm Gyprock plasterboards	600	600	600
13 and 16mm Gyprock plasterboards	600	600	600
6 and 9mm CeminSeal Wallboard	600	600	600

BRANZ 1990 – Weathertightness of Domestic Claddings



Add air Leakage Resistance to the system.
Membrane takes some of the wind load.
Cladding has smaller pressure drop.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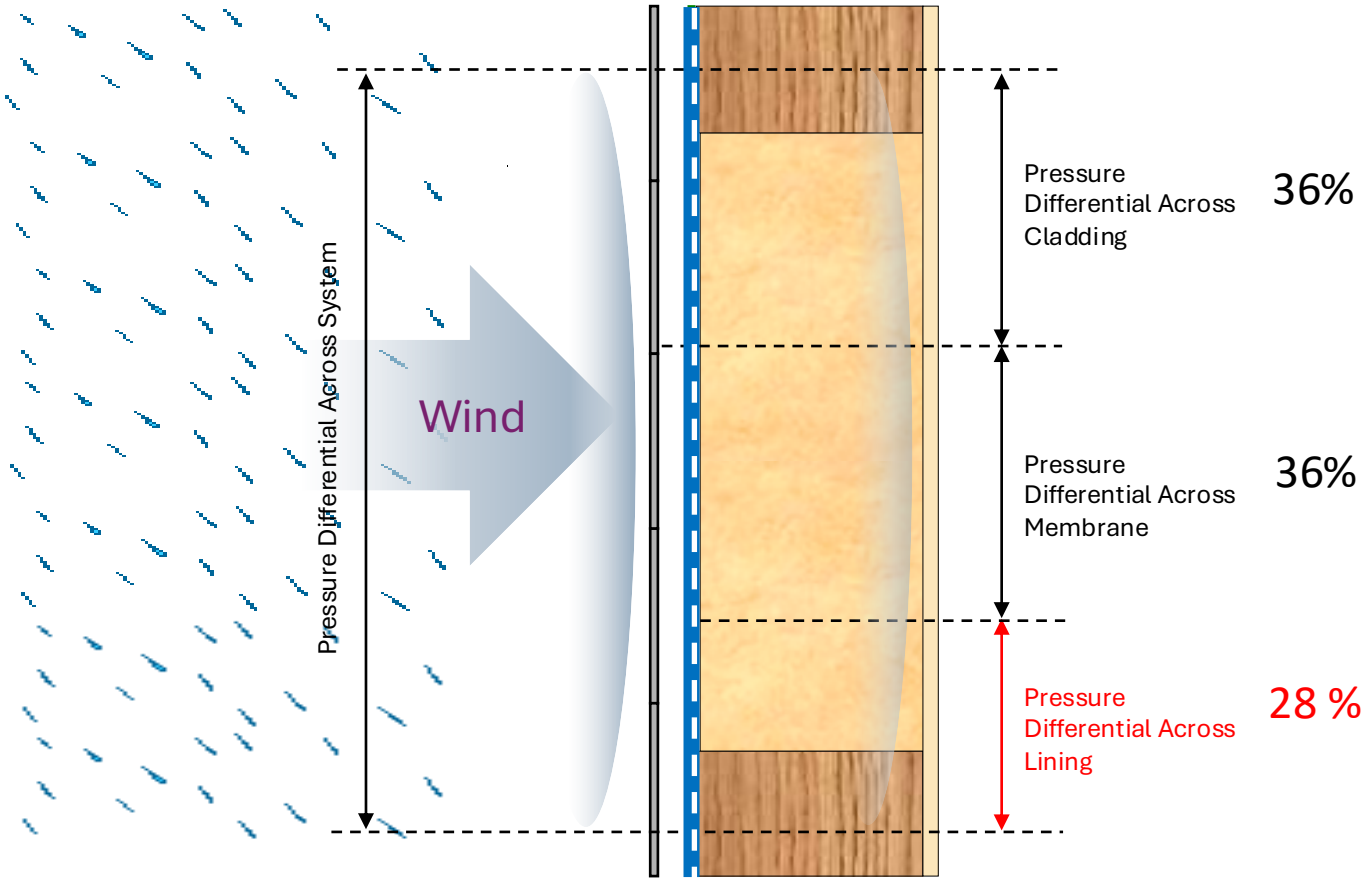

Membranes will reduce the pressure drop across the cladding. The more perfect the air seal on the membrane the lower the pressure drop across the cladding.

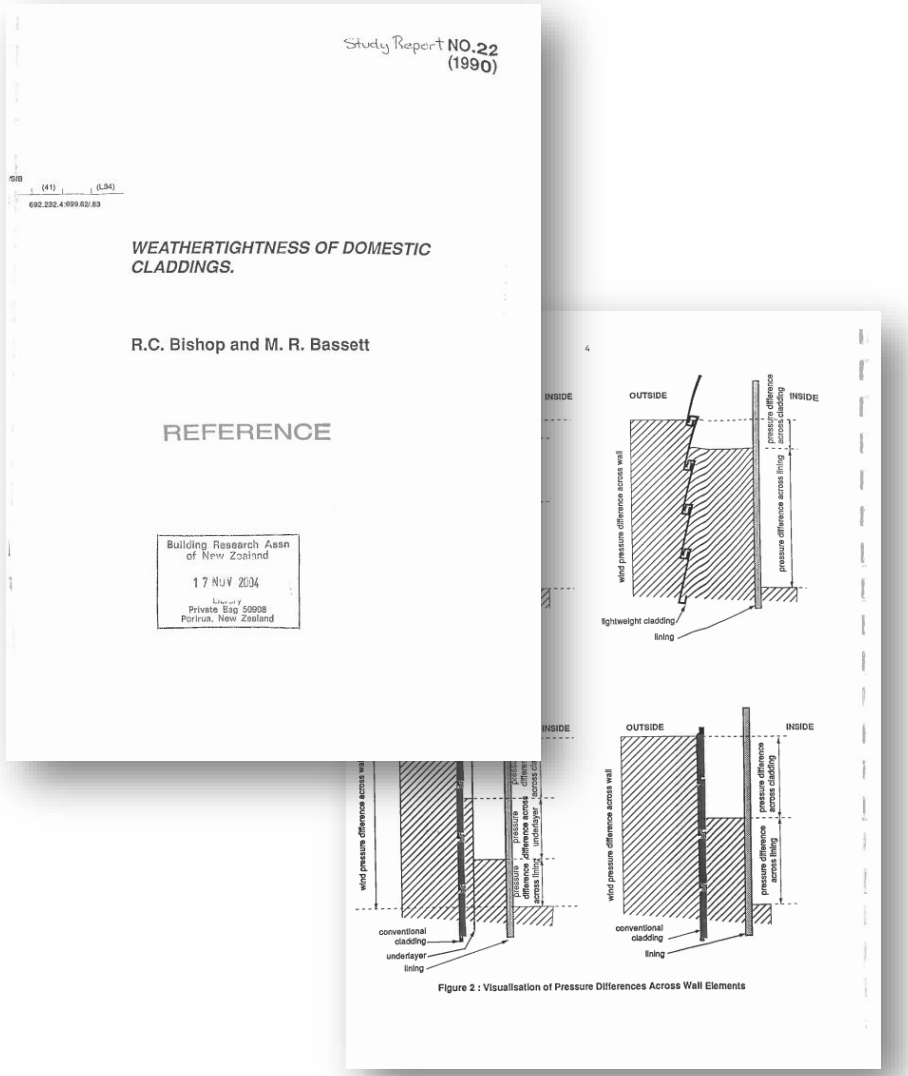
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Figure 2 : Visualisation of Pressure Differences Across Wall Elements

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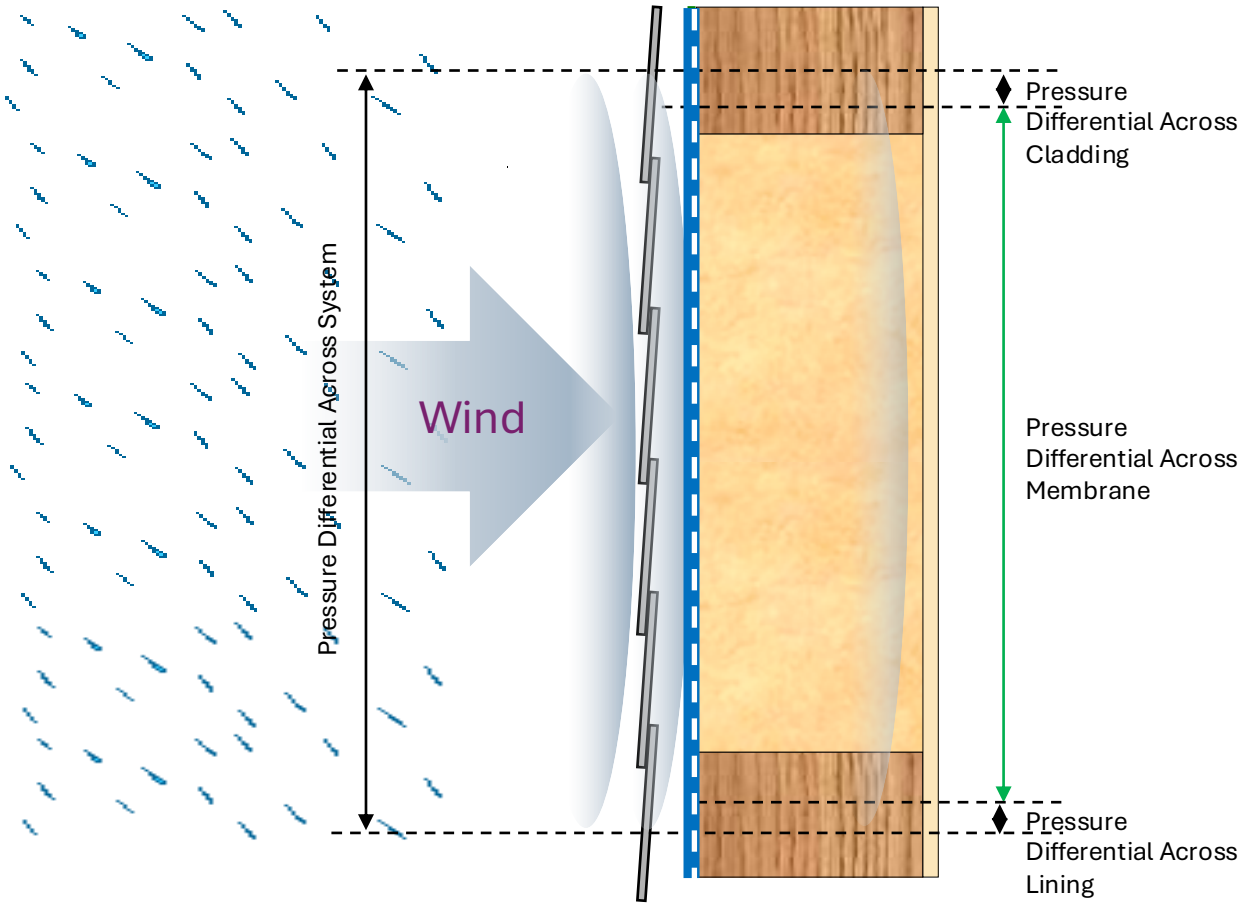
Drained Wall Systems – The Objective



Objective is to have zero pressure drop across the cladding. Membrane takes the wind load. Plasterboard takes small load.

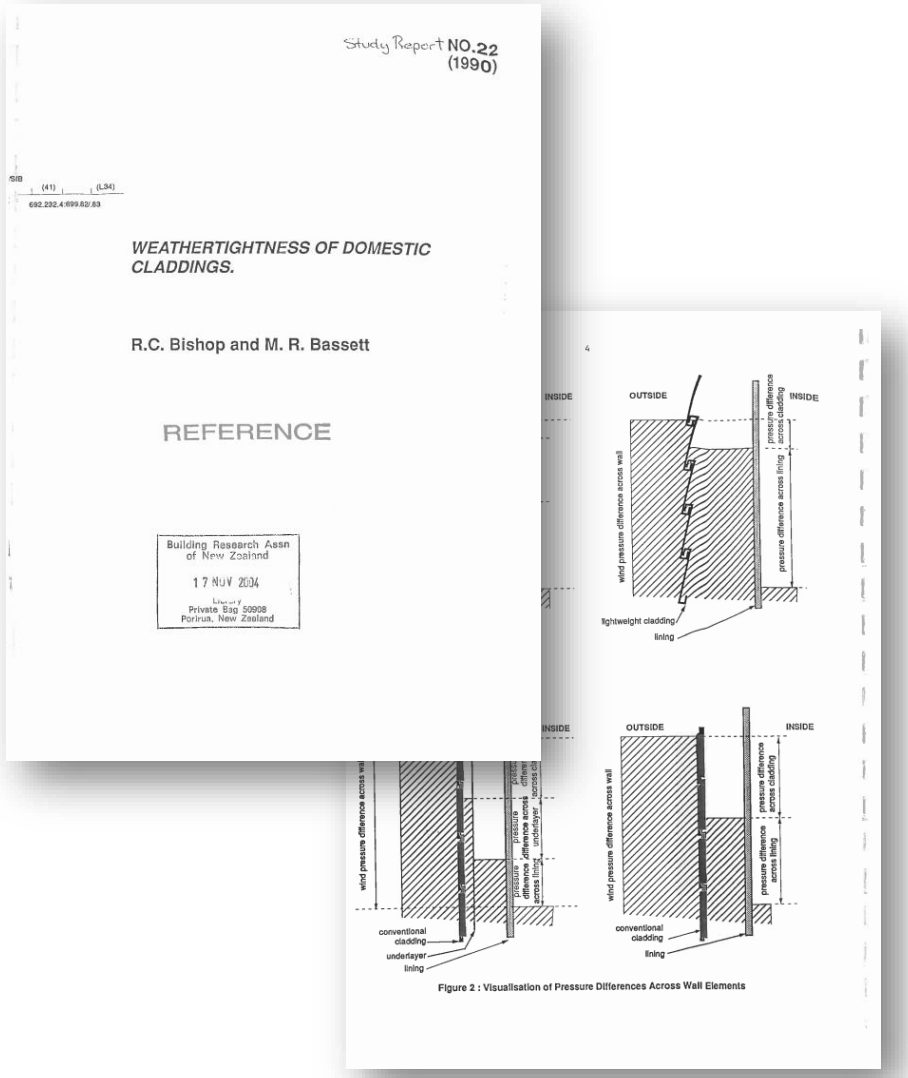

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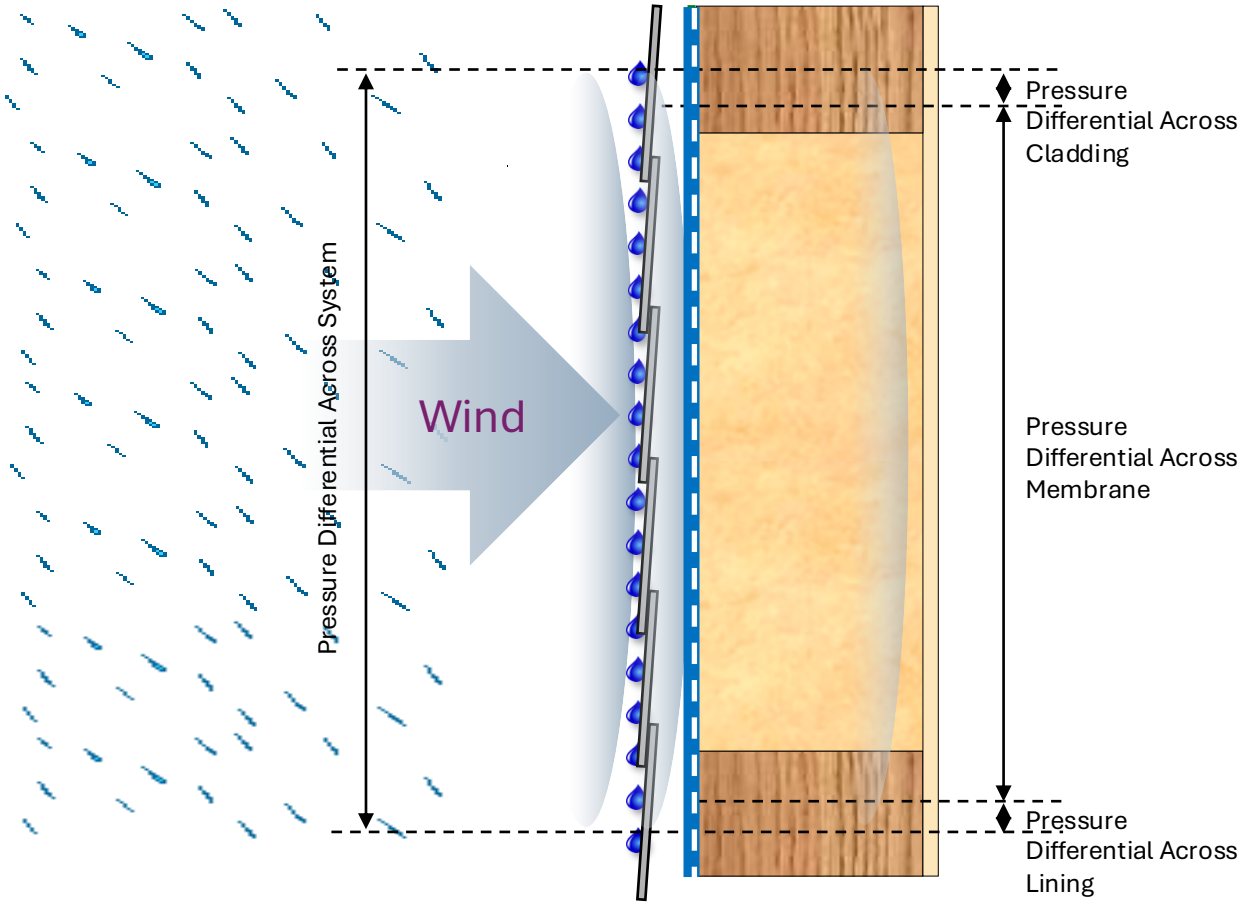
Figure 2 : Visualisation of Pressure Differences Across Wall Elements

Weathertightness of Domestic Claddings.
R.C Bishop and M. R. Bassett, 1990

Drained Wall Systems – Where we want to be



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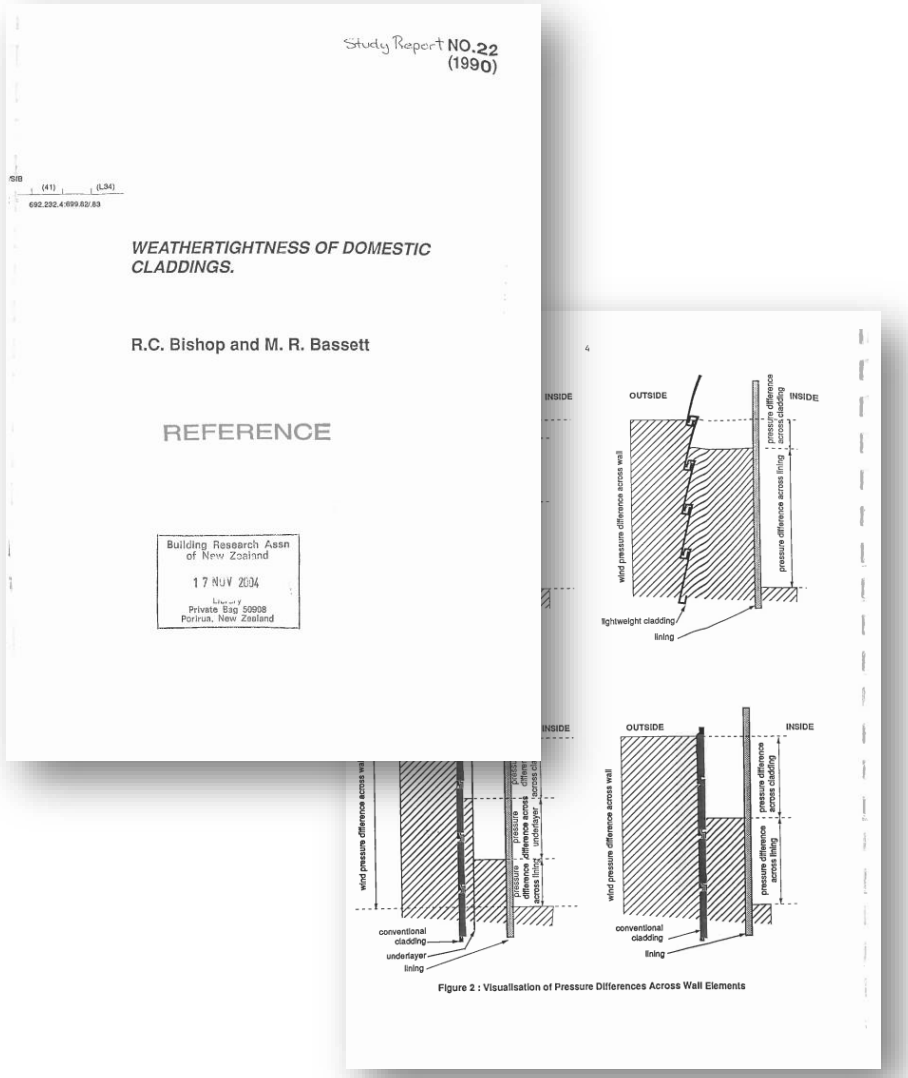
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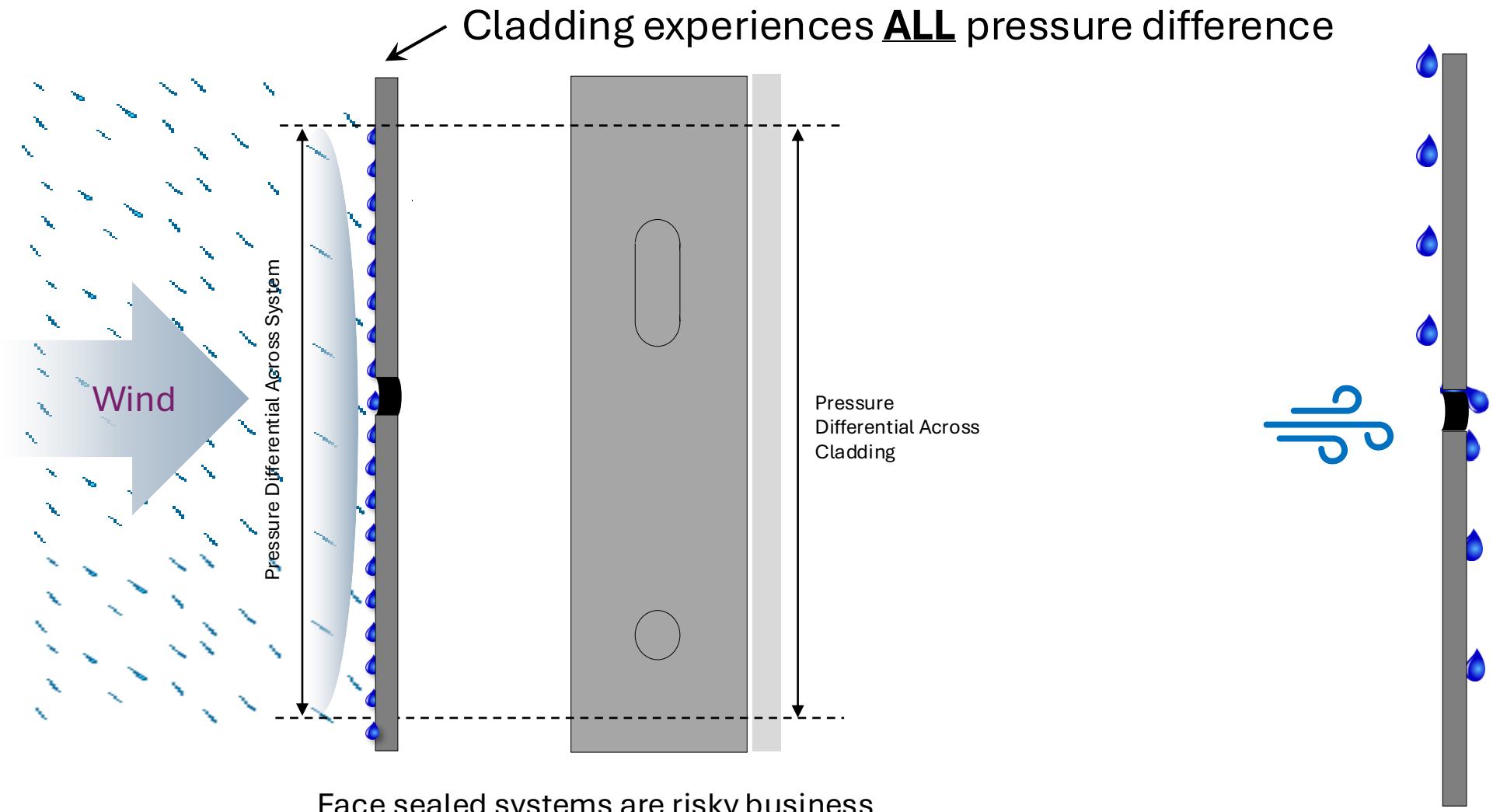
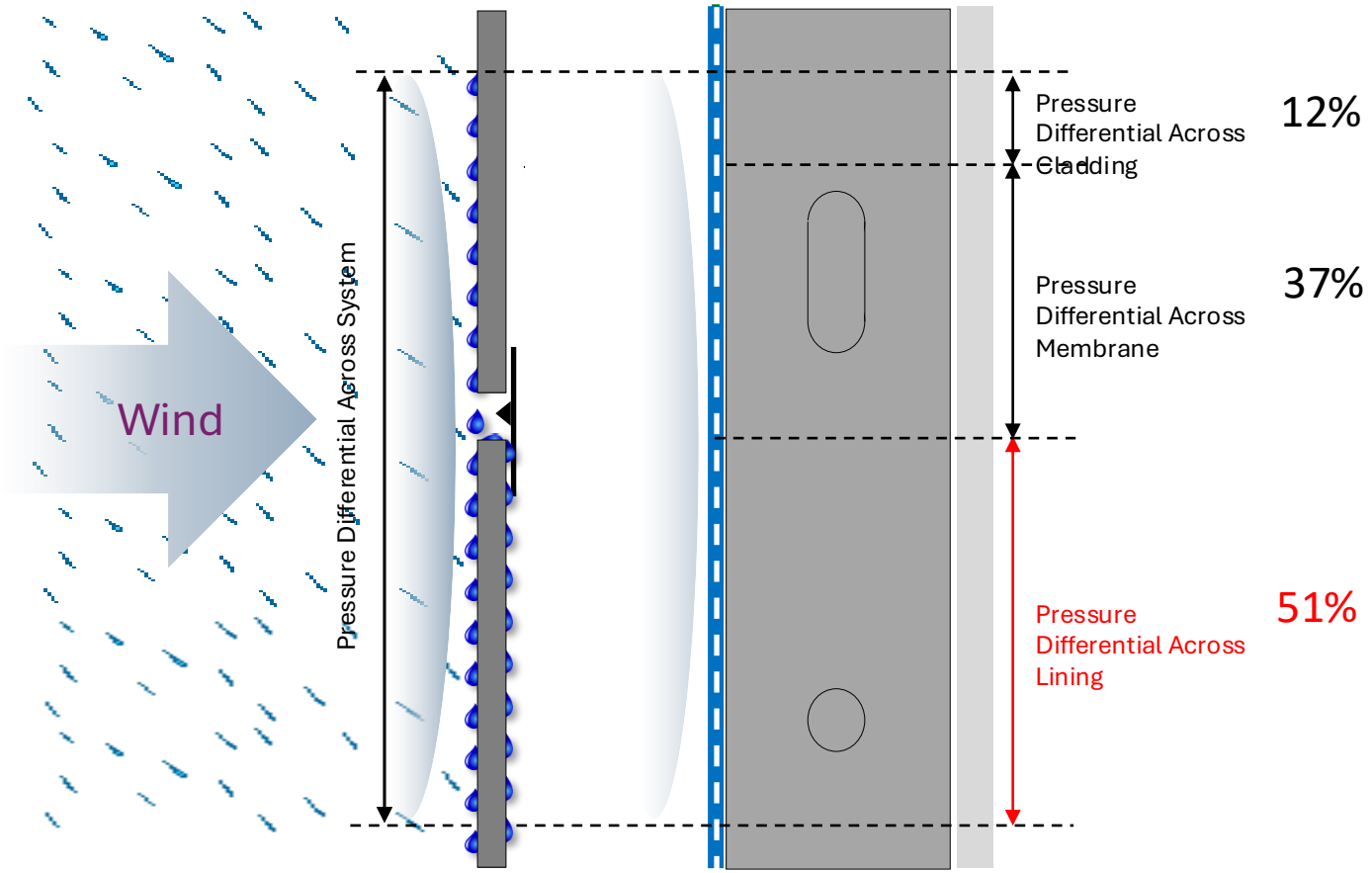
R.C Bishop and M. R. Bassett, 1990

Barrier System



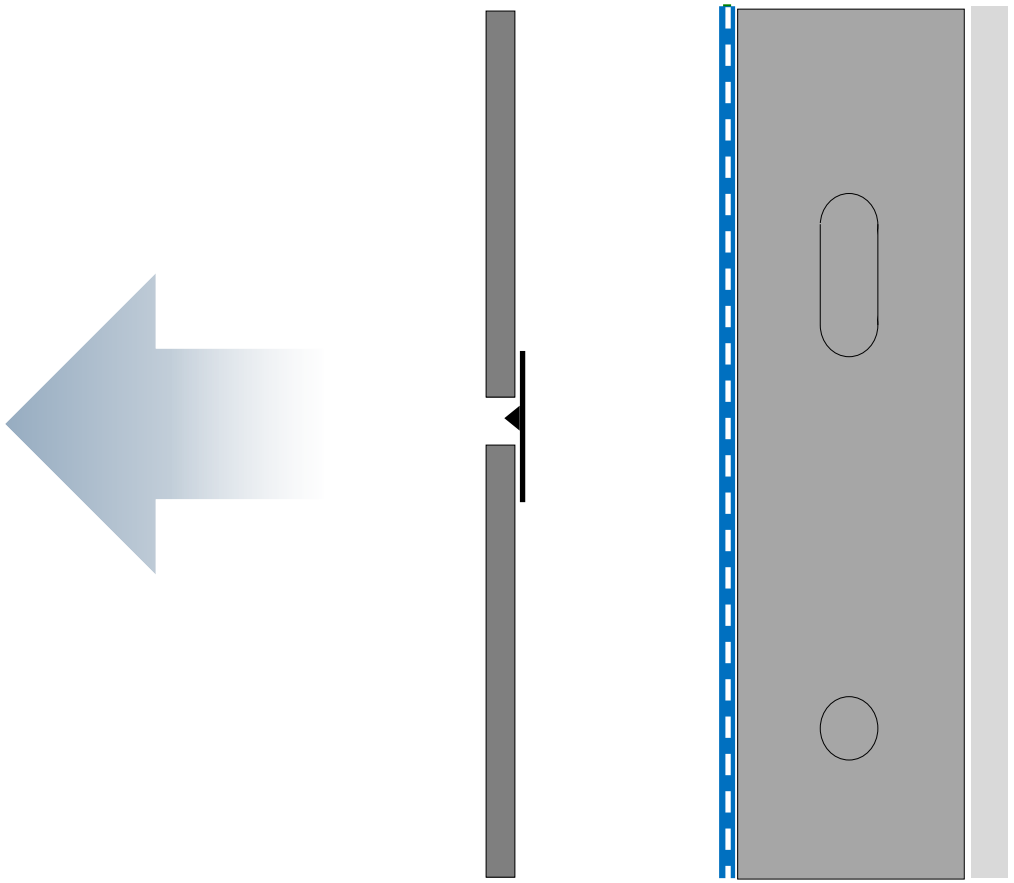
Face sealed systems are risky business

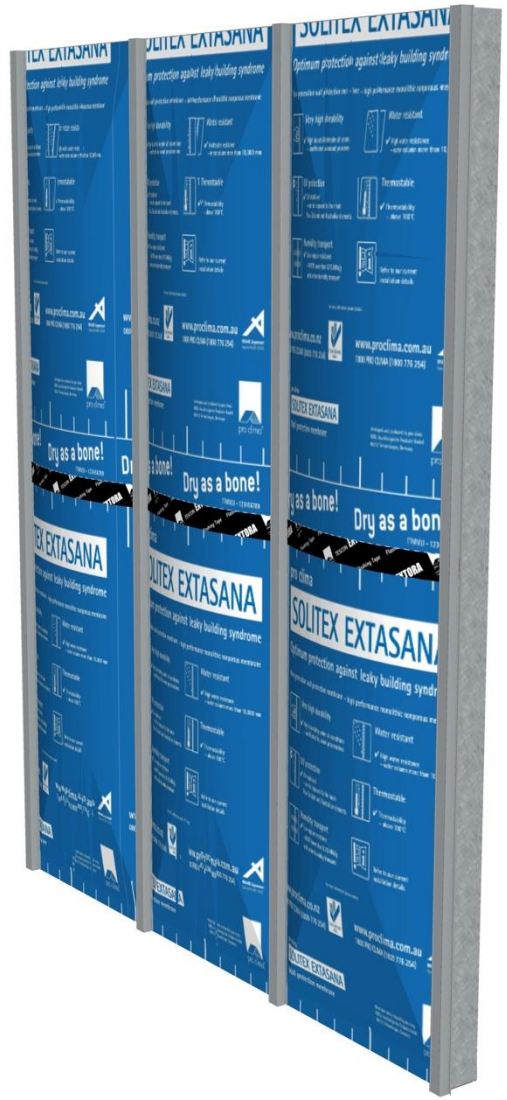
Baffled Joints



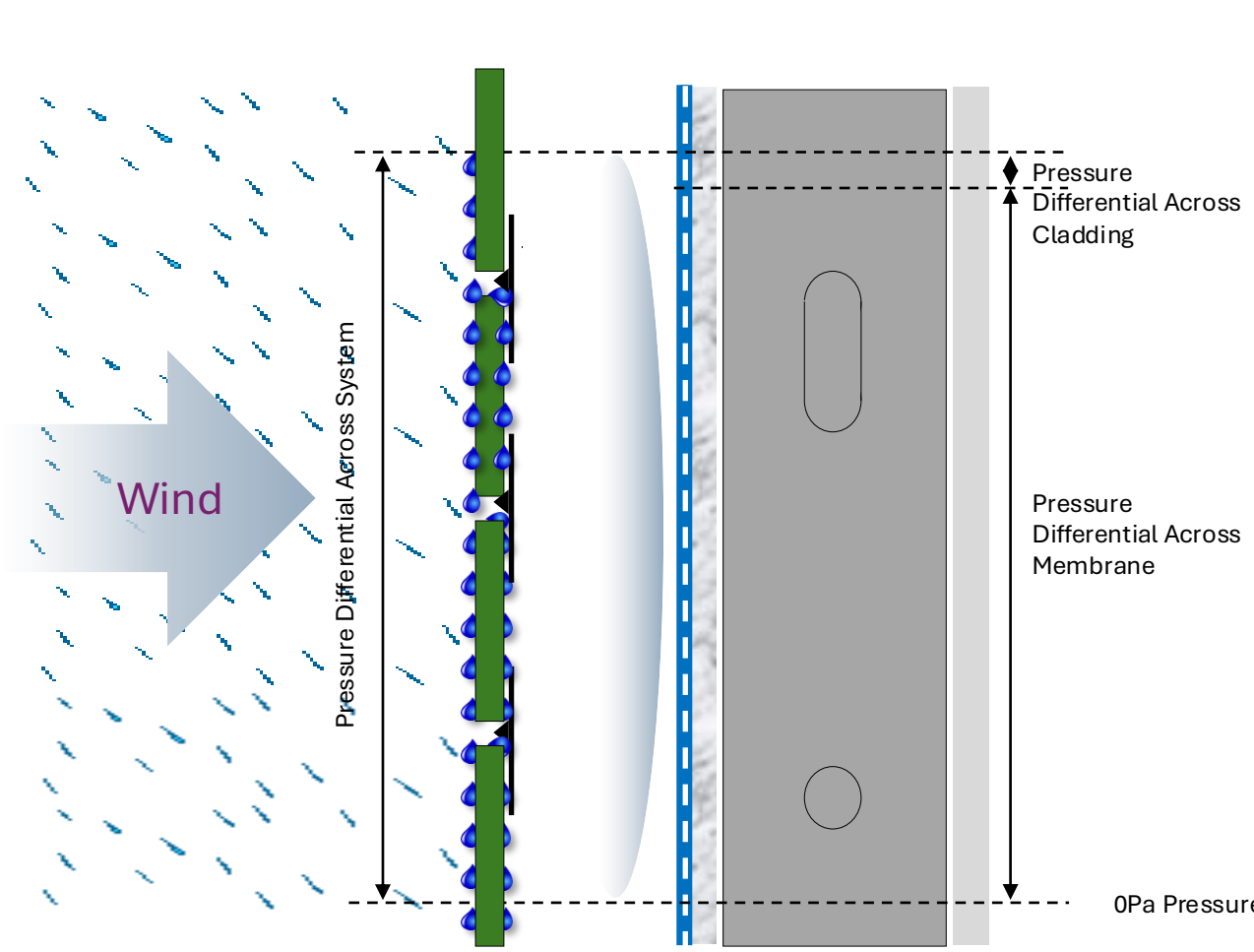
Meanwhile in Australia a heavy reliance on flexible membranes

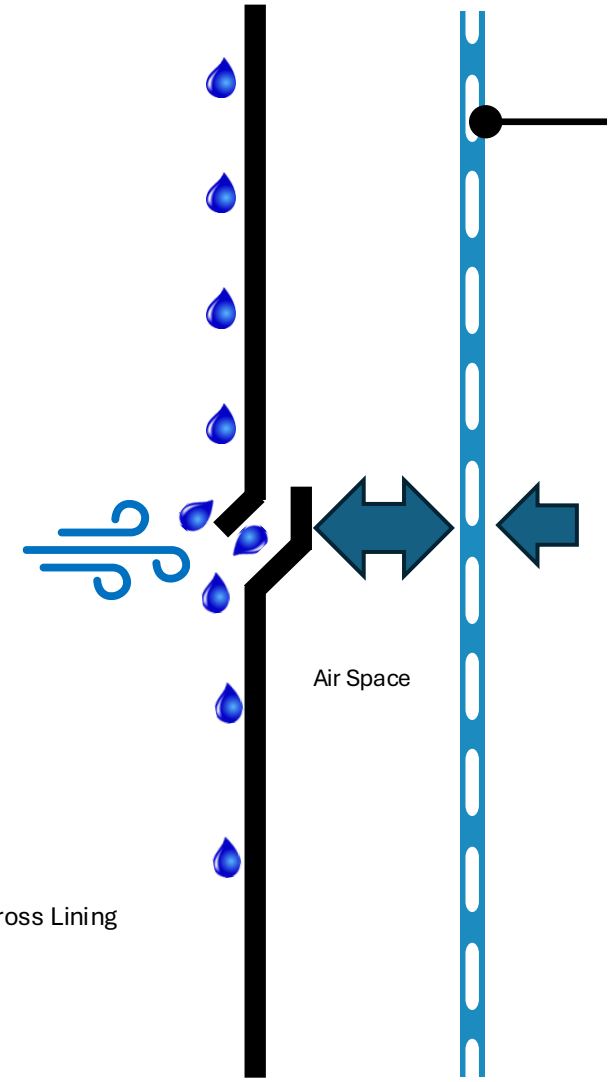
Baffled Joints





Pressure Equalised





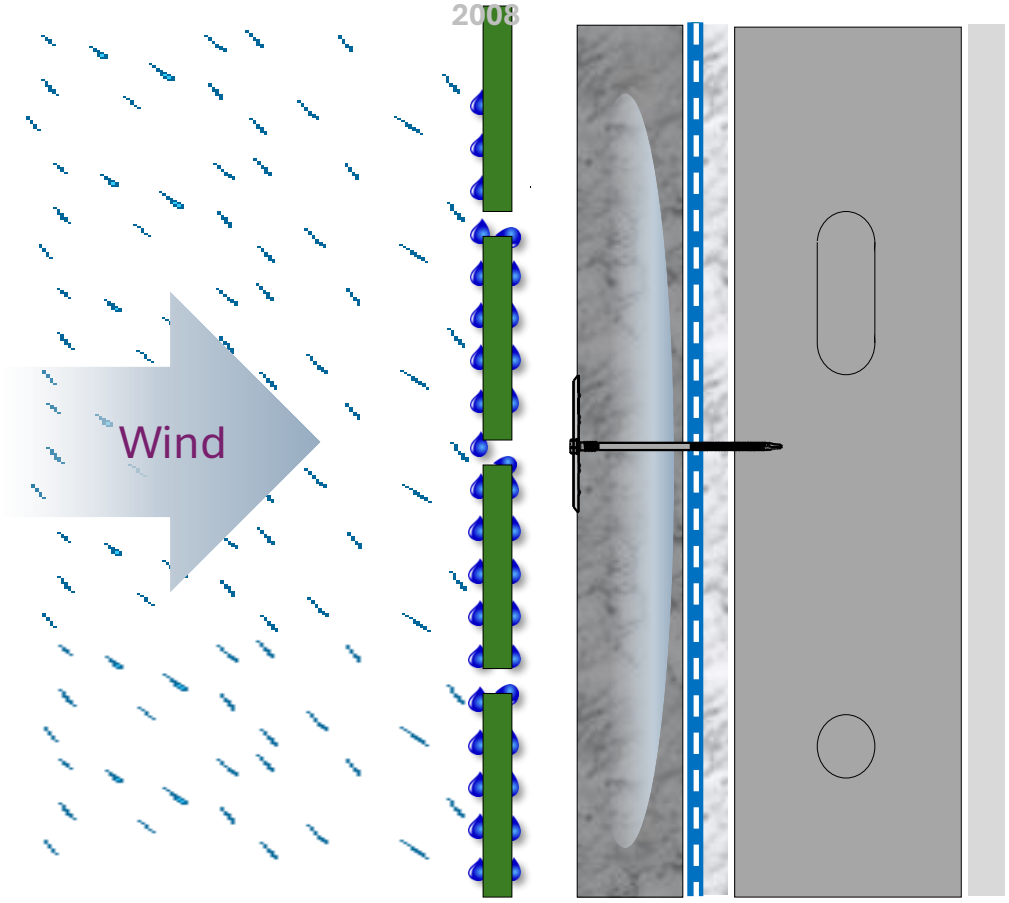
Pro Clima SOLITEX® membranes installed as the interior air (wind) barrier & drainage plane

Rain screen

John Straube, Diagram of the "Perfect" Wall
Associate Professor, University of Waterloo

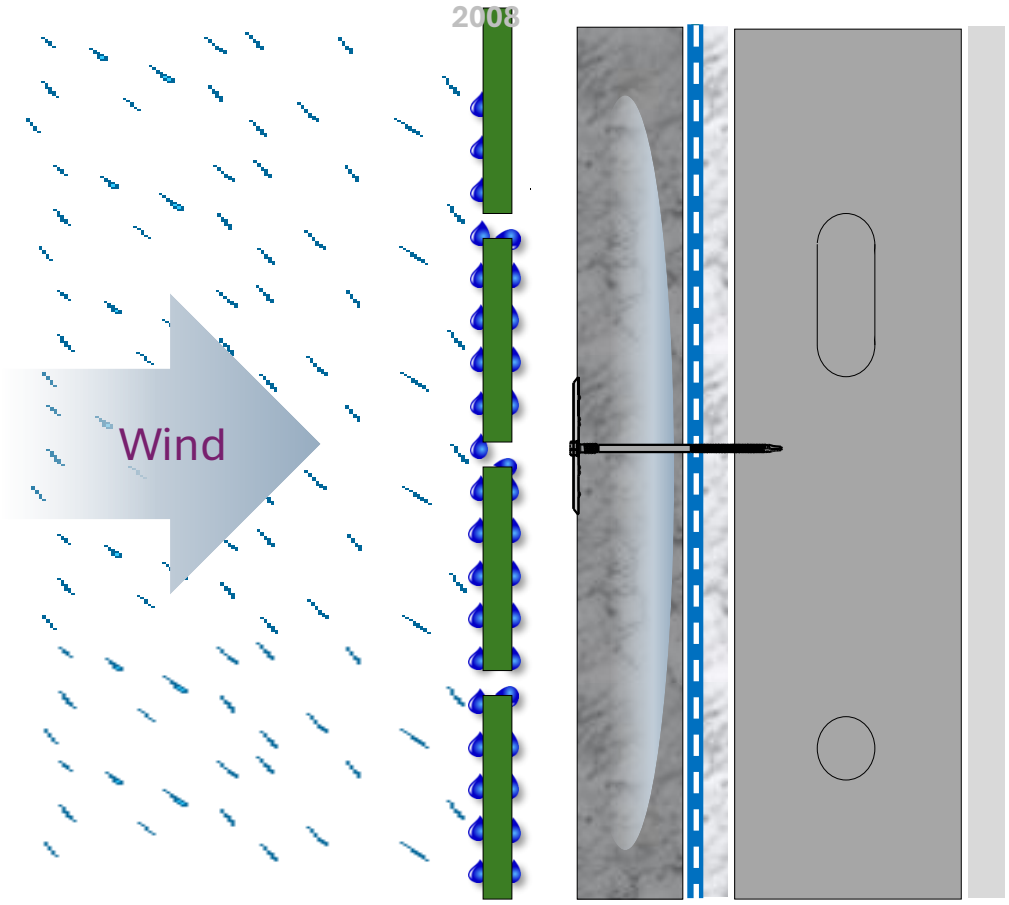
2008 – The Perfect Wall

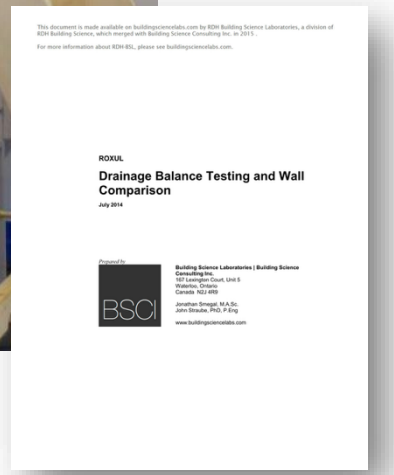
Lstiburek, J. Building Science Insight-001: The perfect Wall, www.building science.com, 2008



2014 – The Perfect Wall

Lstiburek, J. Building Science Insight-001: The perfect Wall, www.building science.com, 2008





Jonathan Smegal & John Straube, BSCI, ROXUL Drainage Balance Testing and Wall Comparison, July 2014

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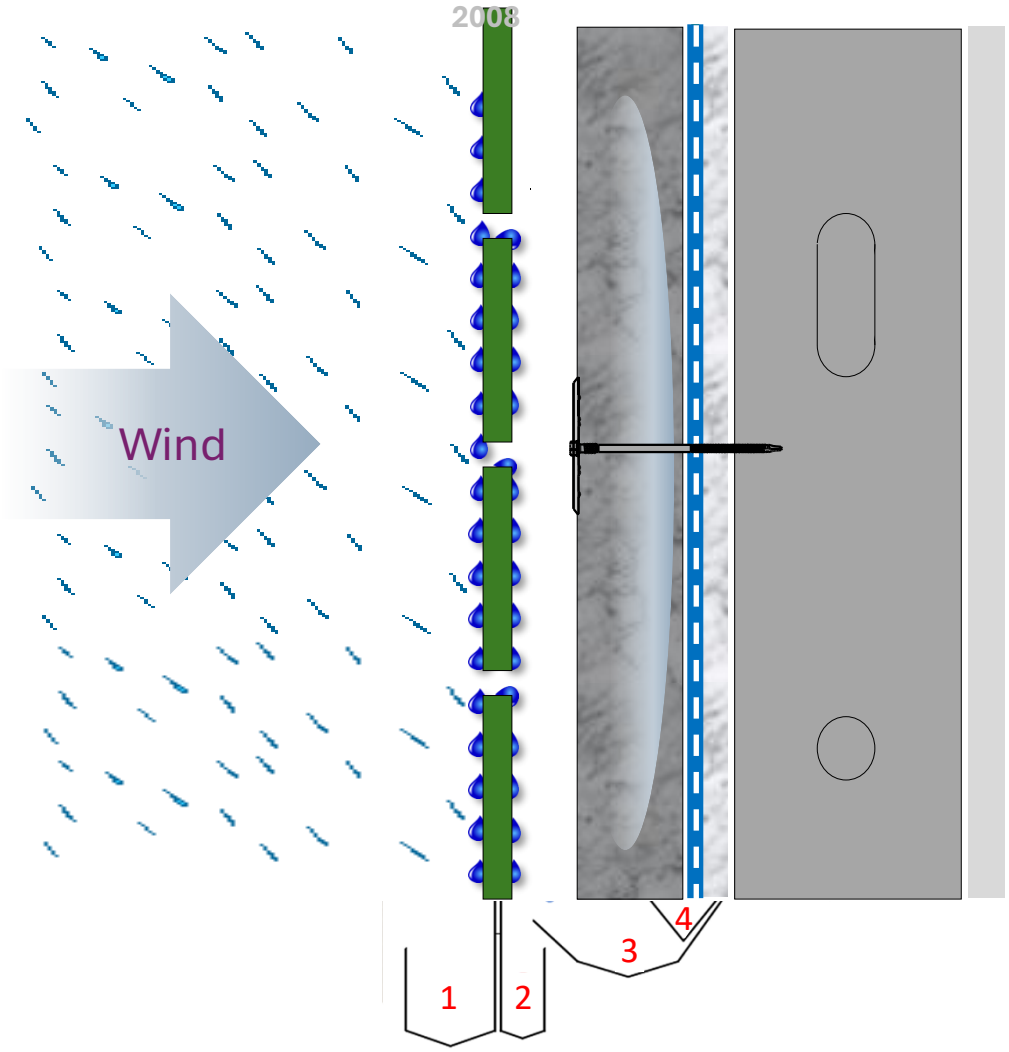

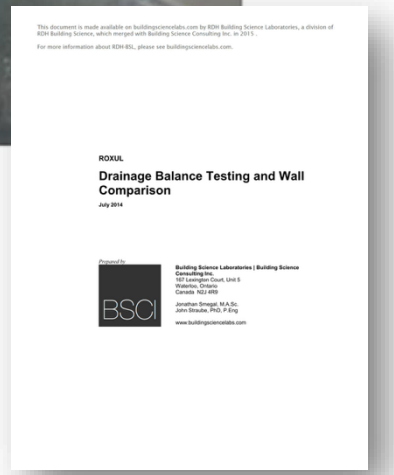

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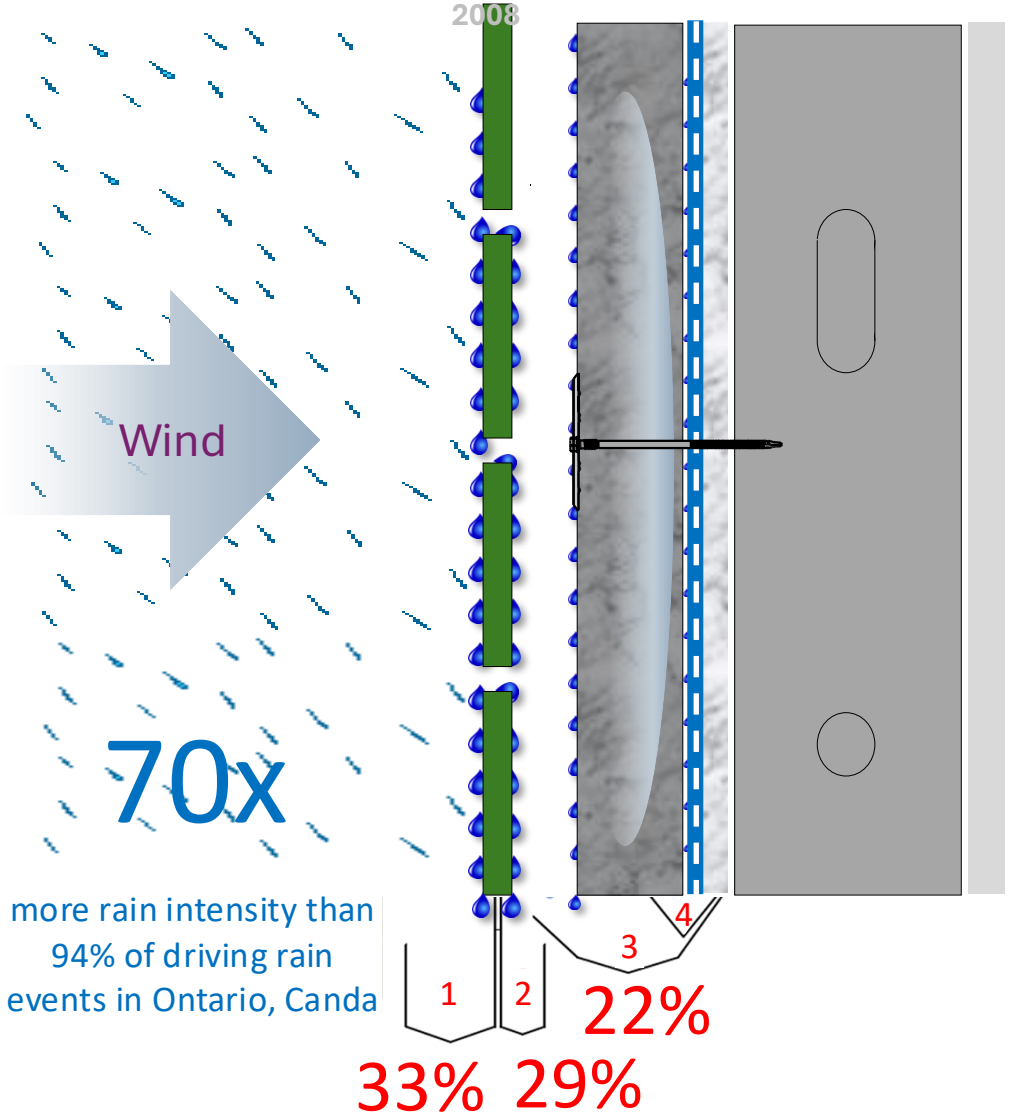
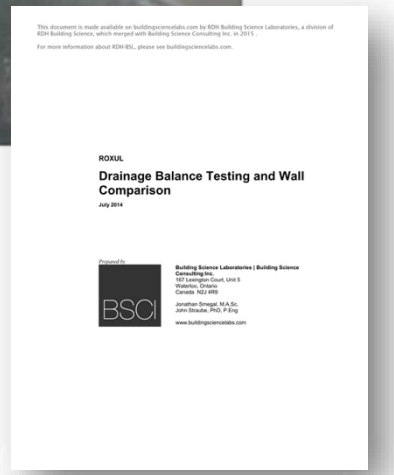
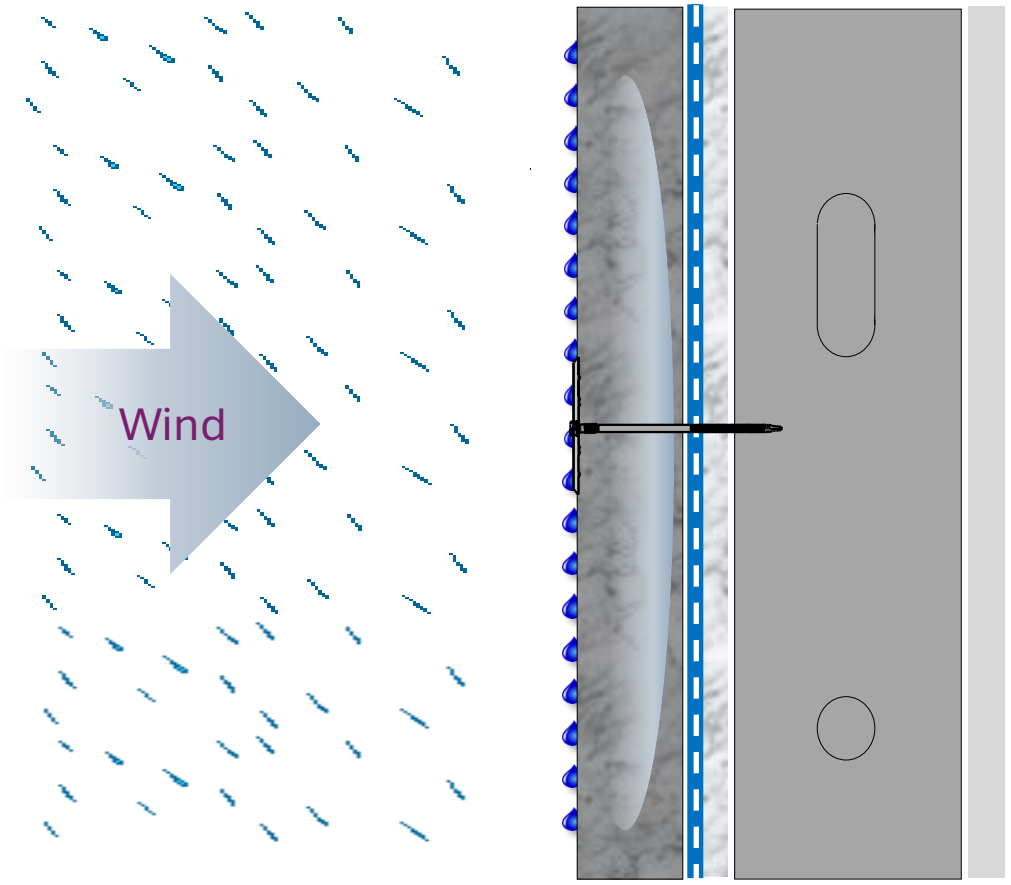




Jonathan Smegal & John Straube, BSCI, ROXUL Drainage Balance Testing and Wall Comparison, July 2014

What if…



IAN BENNIE & ASSOCIATES

Testing of Building Facades

By the Methods of AS/NZS4284:2008

For:
pro clima Adhesive Weather Resistive Barriers over rigid substrate with continuous external ROCKWOOL insualtion

Test Report No. 2025-016-S2
Date: October 2025
Revision: 0
Client: Pro Clima Australia Pty Ltd

NATA

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

Ian Bennie and Associates, January 2025

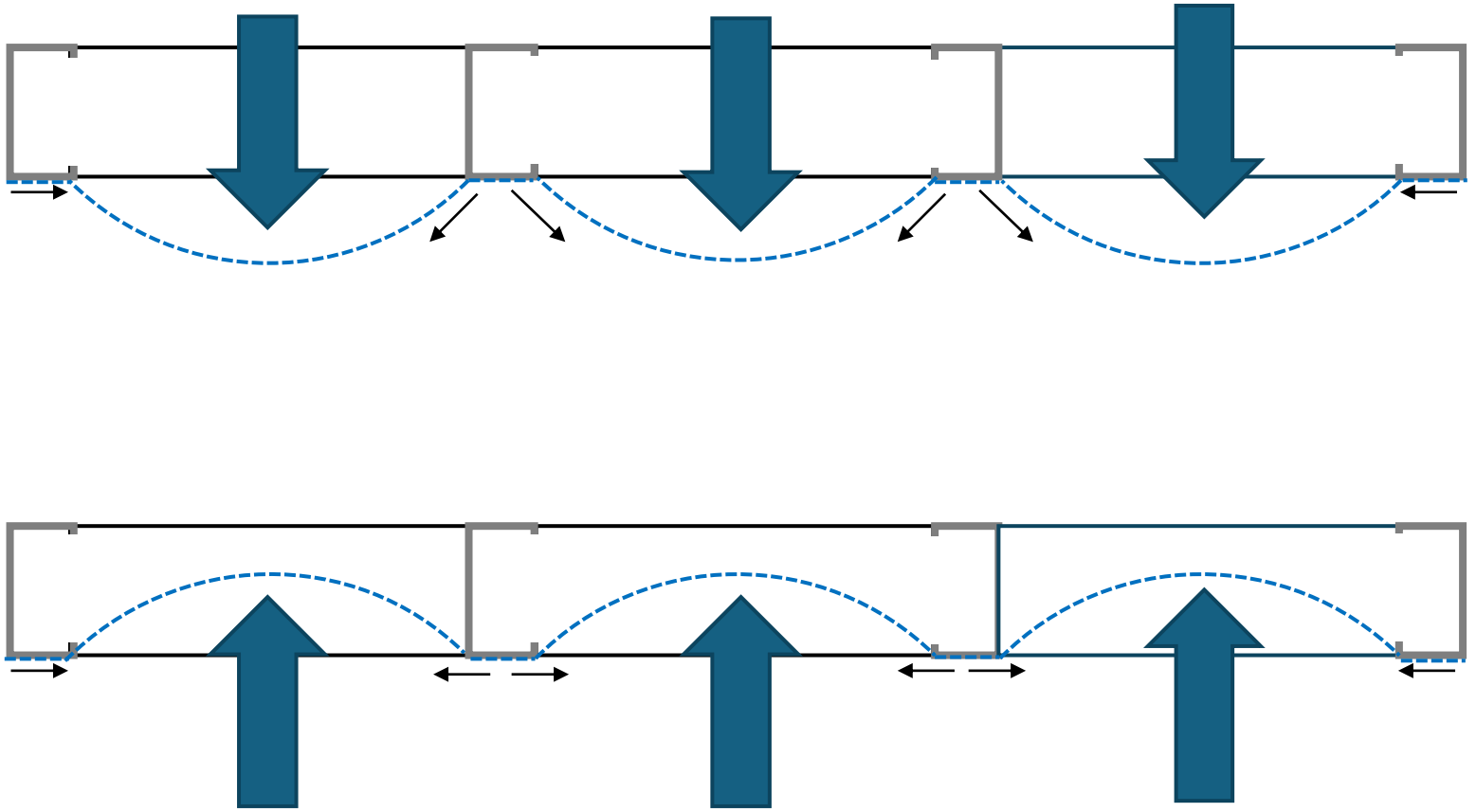
Facades 4

Wind Pressure

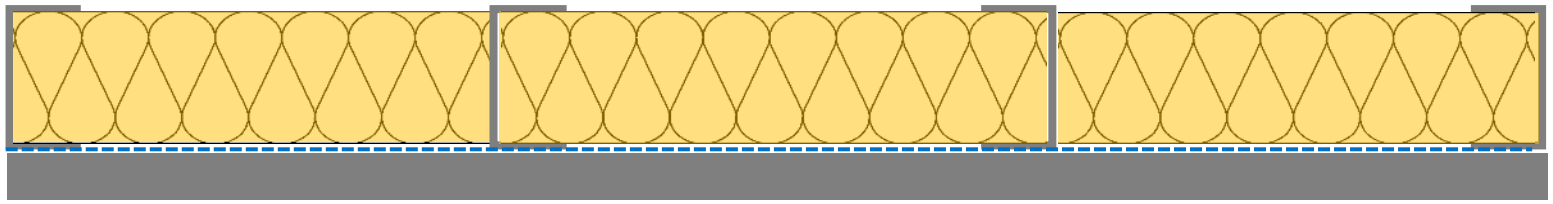
The most well sealed layer takes the wind pressure

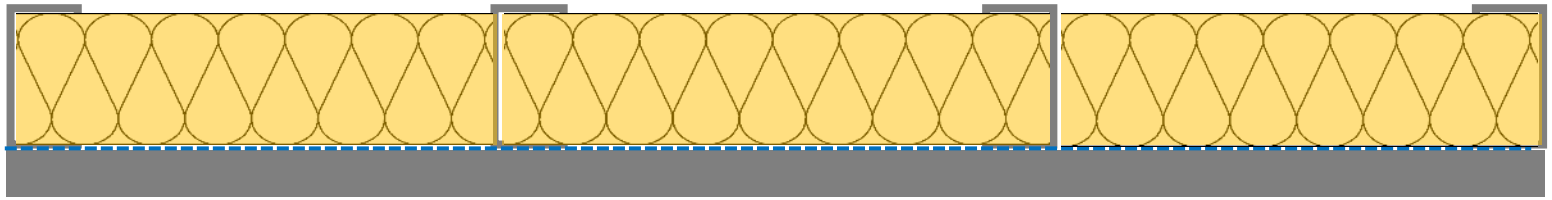
pro clima®

Pliable Building Membranes and Underlays

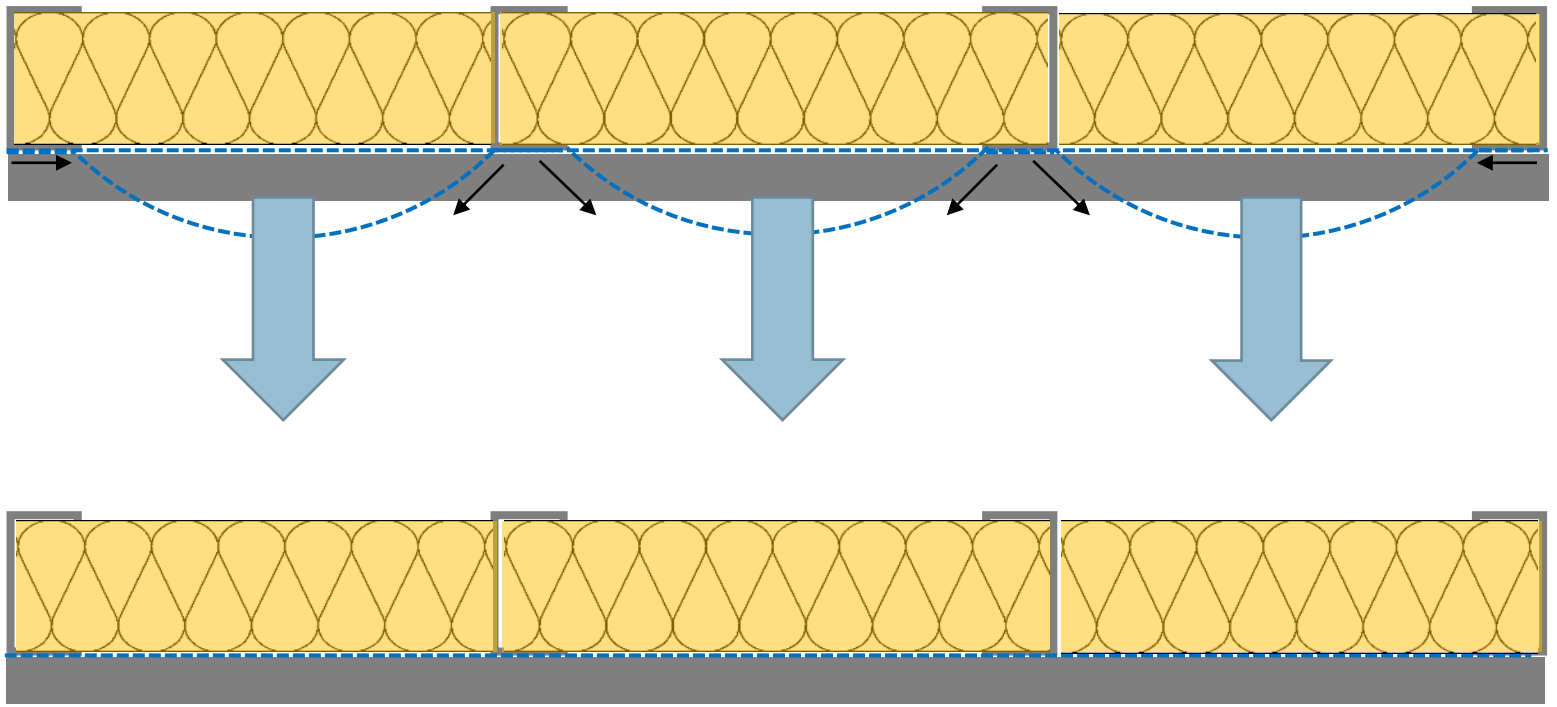


Pressure & Performance

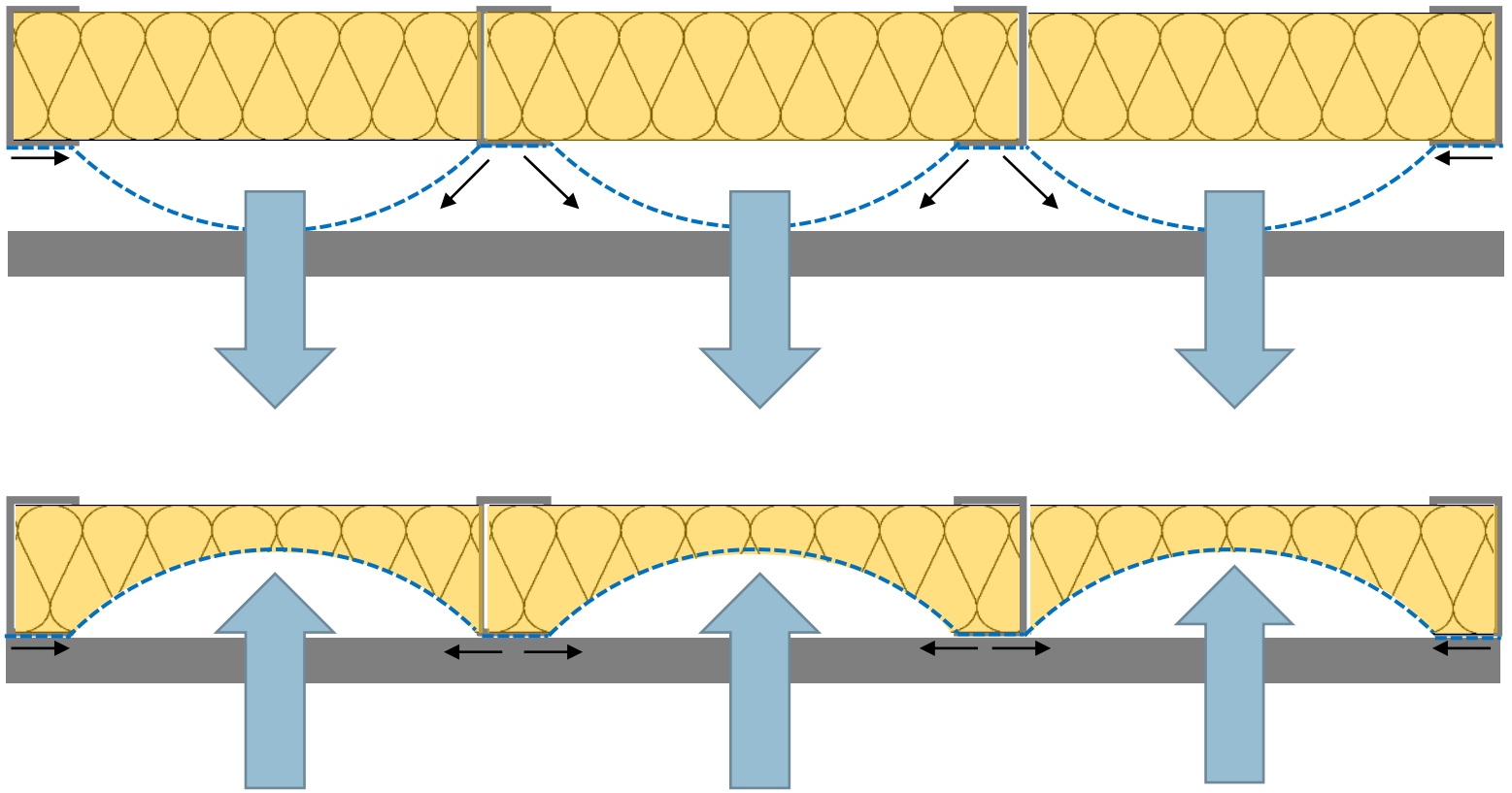




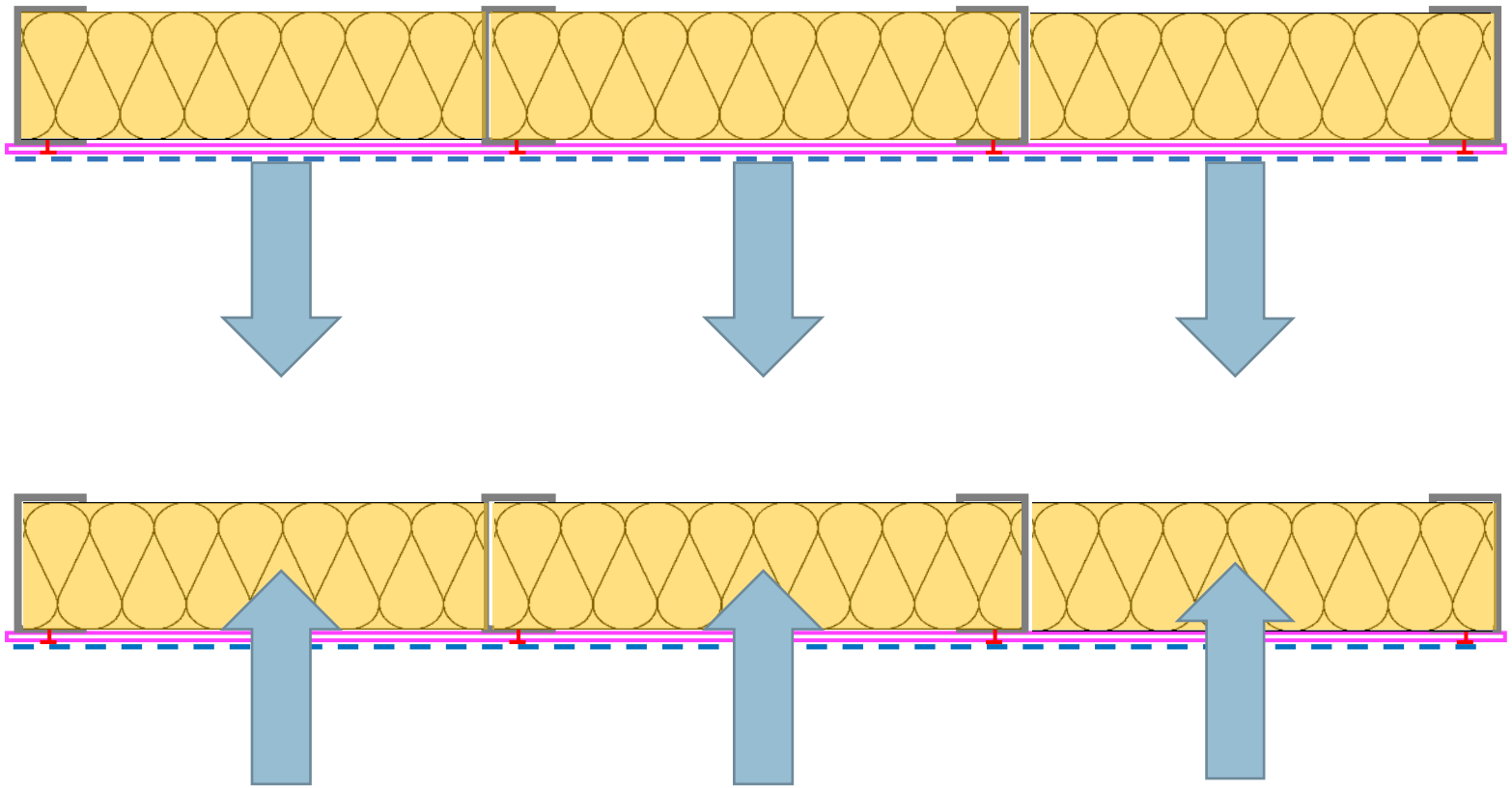
Pressure & Performance

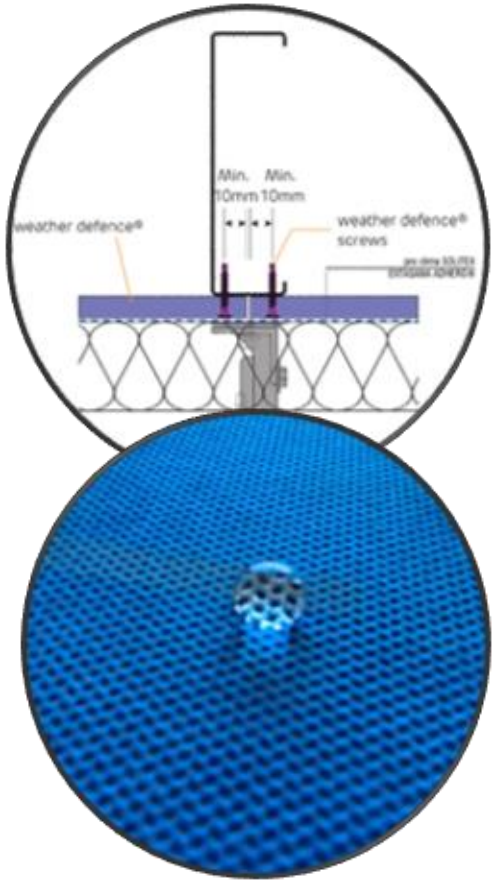


Pressure & Performance



Pressure & Performance





Building movement cracking
Wind pressure cracking
Screw head leaks

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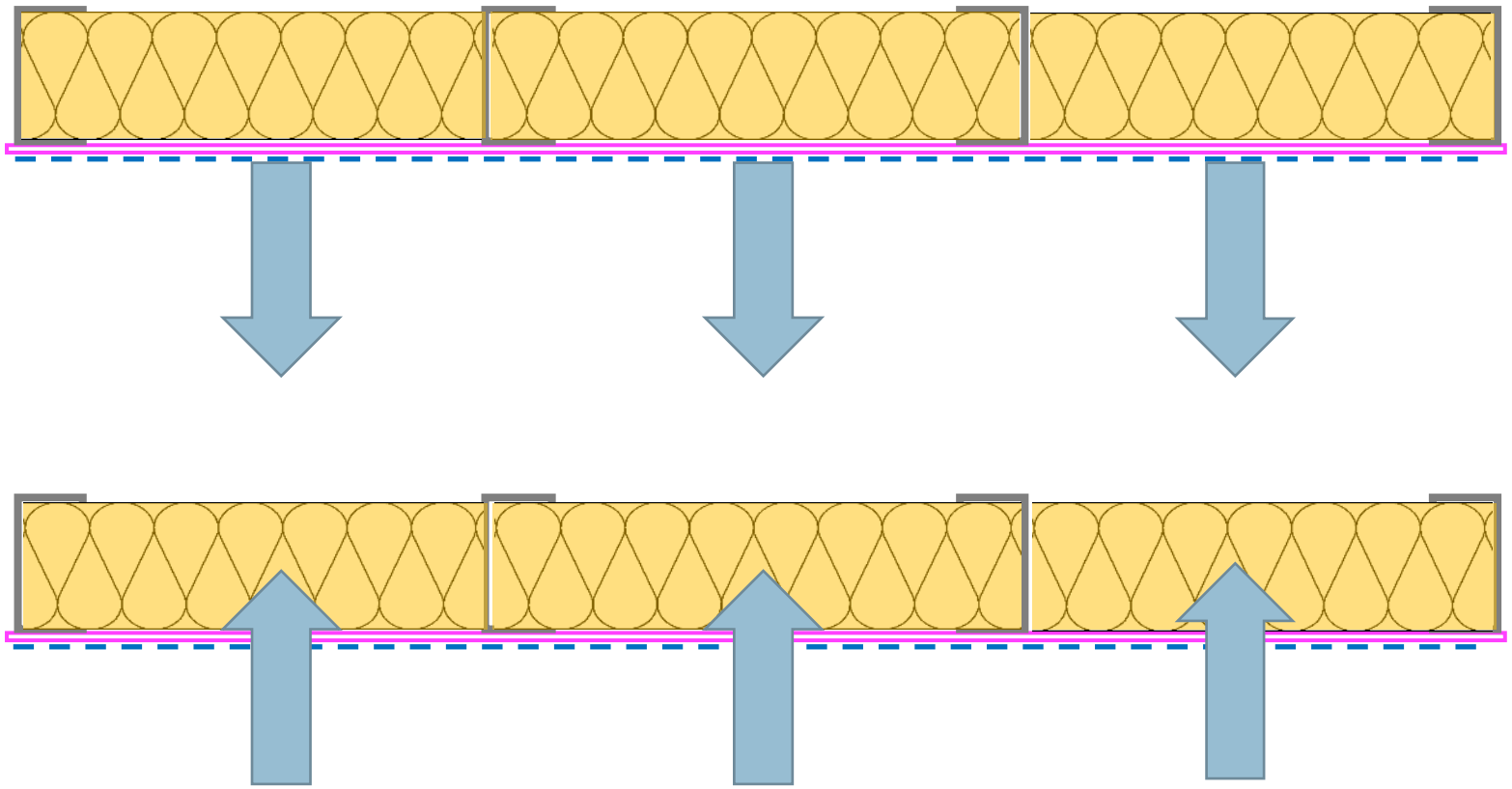
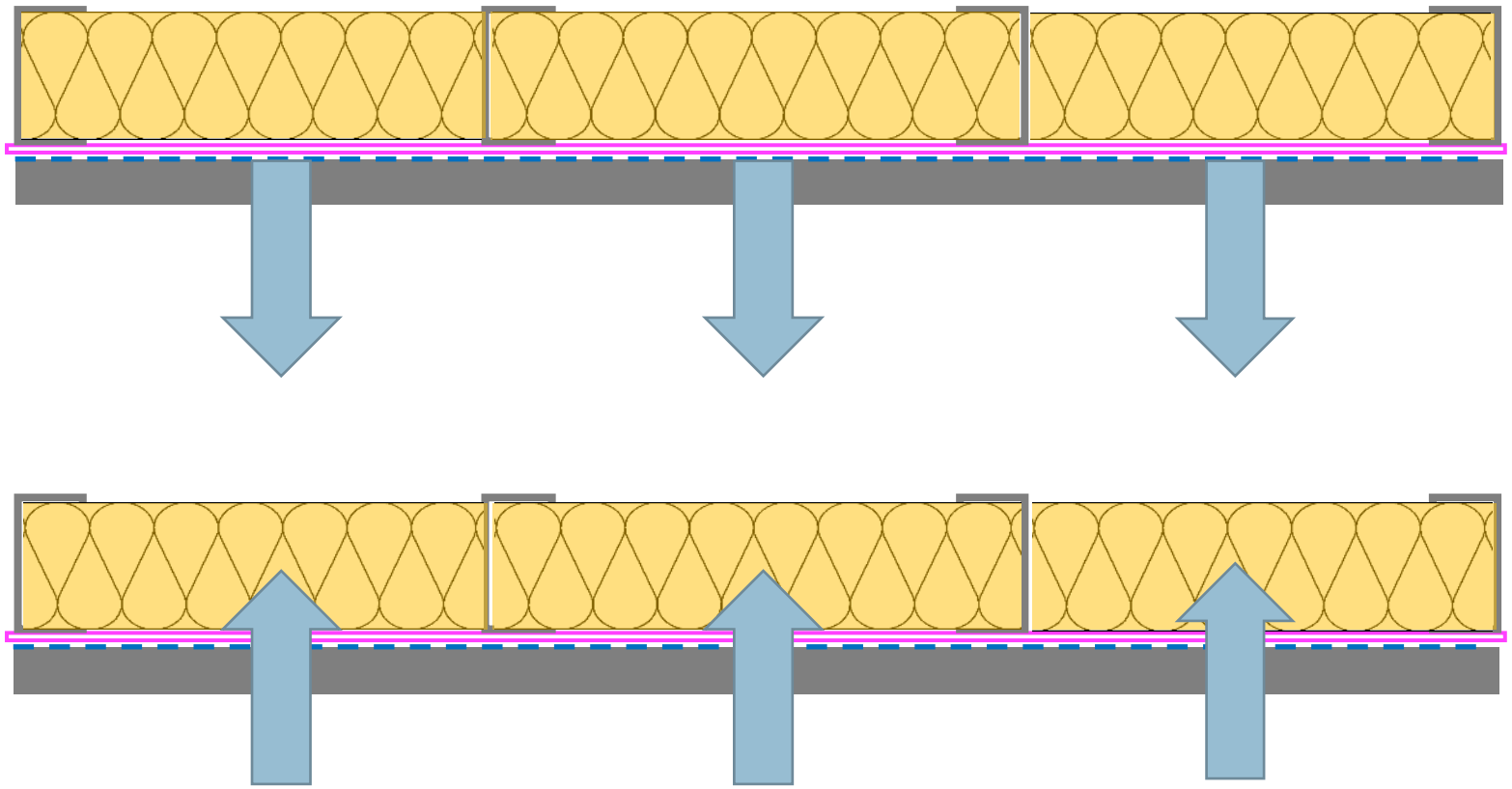
Hairline crack

Pressure & Performance



Pressure & Performance



Facades 5

Flexible Membranes

Details Drive the outcome

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ROCKWOOL® Safe n Silent
Non-combustible Mineral Wool

PRESSFIX
Pressing Tool

SOLITEX EXTASANA
Class 4
Weather Resistive Barrier

TESCON EXTOSEAL®
Sill Tape

DUPLEX
Double Sided
Adhesive Tape

TESCON NAIDECK Patch
Self Sealing Patches

TESCON NAIDECK
Self Sealing Strip

TESCON EXTORA®
Weathertight
Sealing Tape

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In all life, when a thing works better, usually it is more beautiful to the eye.
Enzo Ferrari

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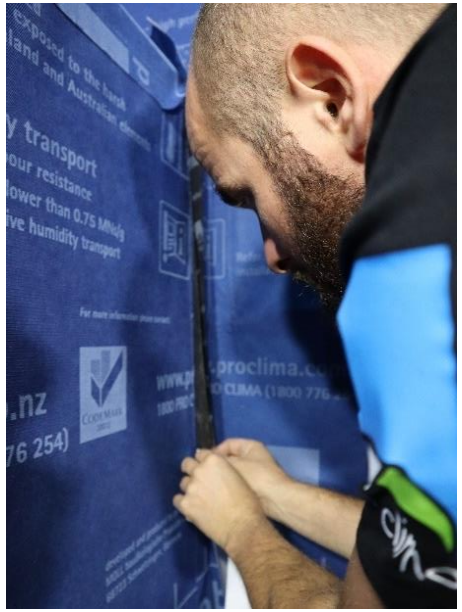
Full Scale Test with Cladding



Facades 6

Windows

The critical Failure Point

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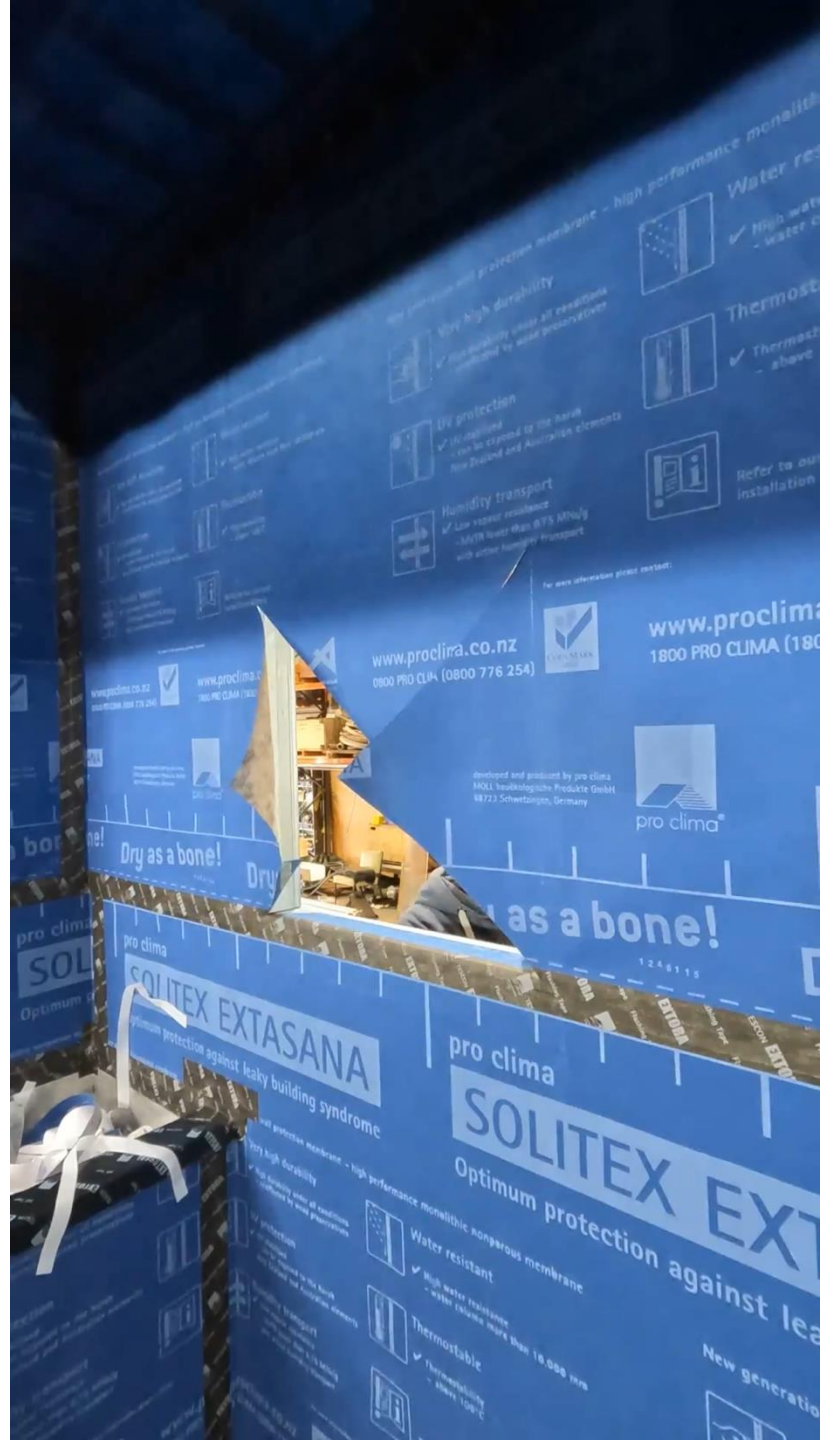
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as a bone!
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SOLITEX EXTASANA
Optimum protection against leaky building syndrome
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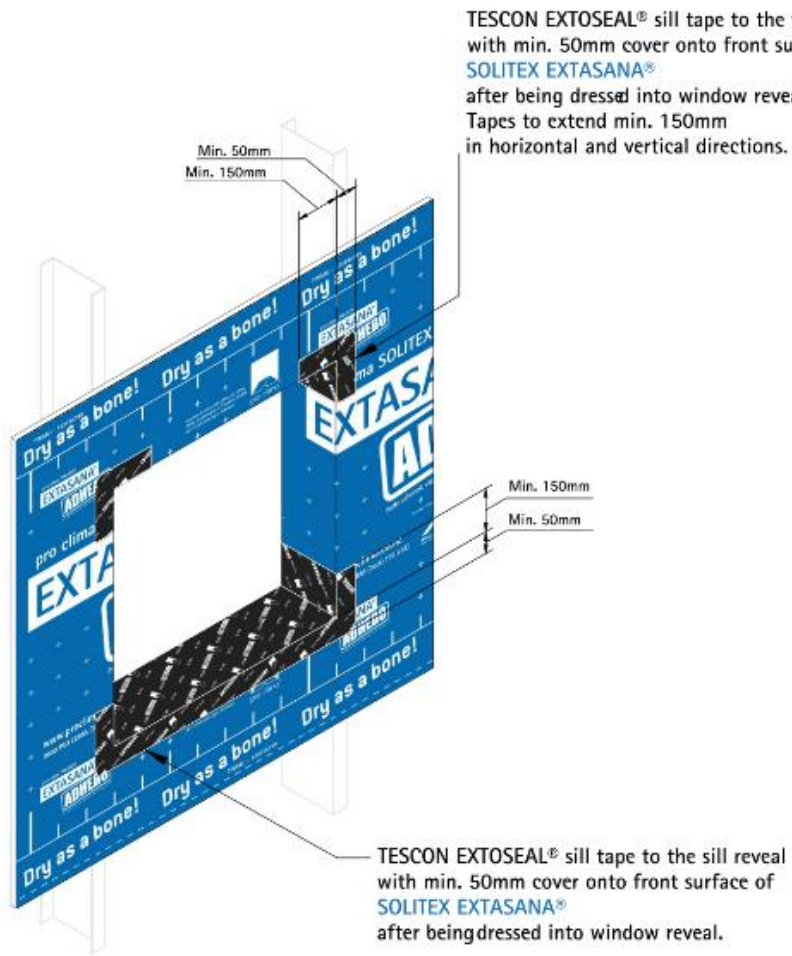
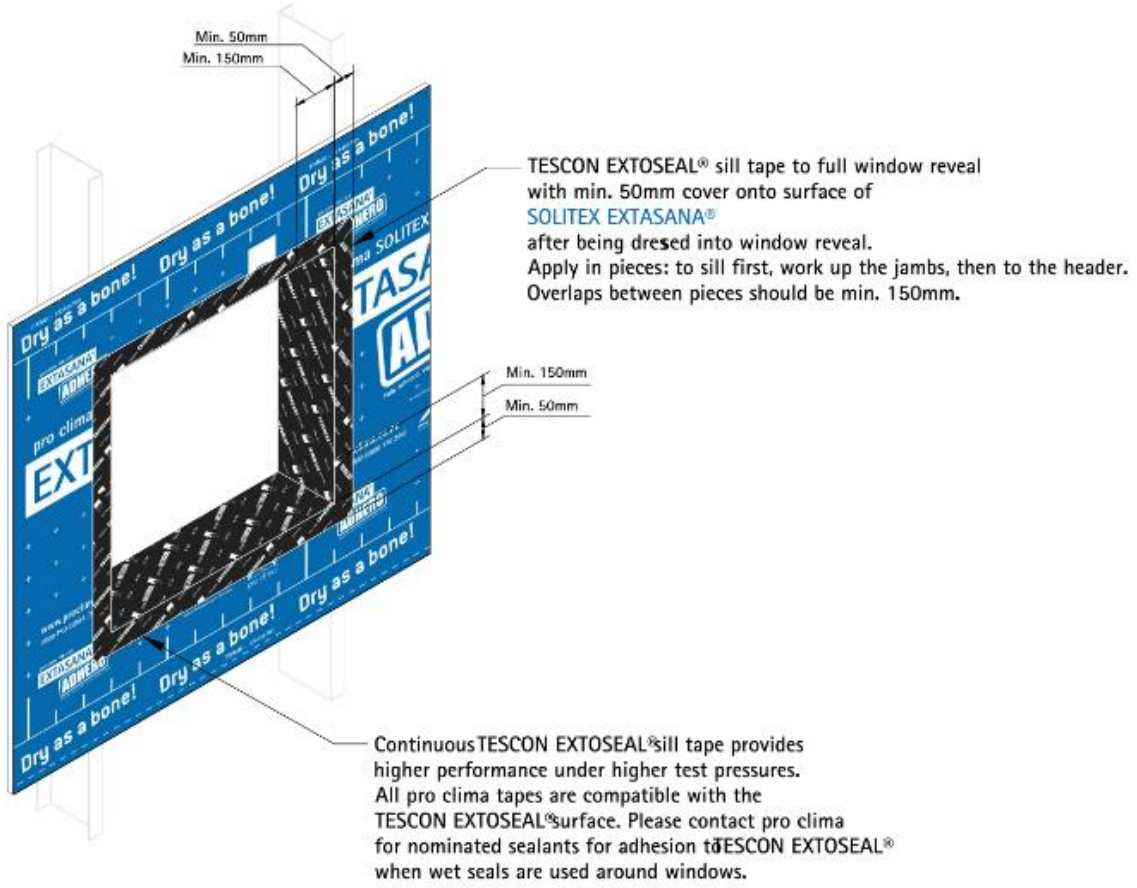
SOLITEX EXT
Optimum protection against lea
Water resistant
Thermostable
New generatio

AS/NZS 4284 Tested Window Details – TESCON EXTOSEAL®



1. Window Reveal – Using TESCON EXTOSEAL® Type 1 – Sill & Corners



2. Window Reveal – Using TESCON EXTOSEAL® Type 2 – Continuous

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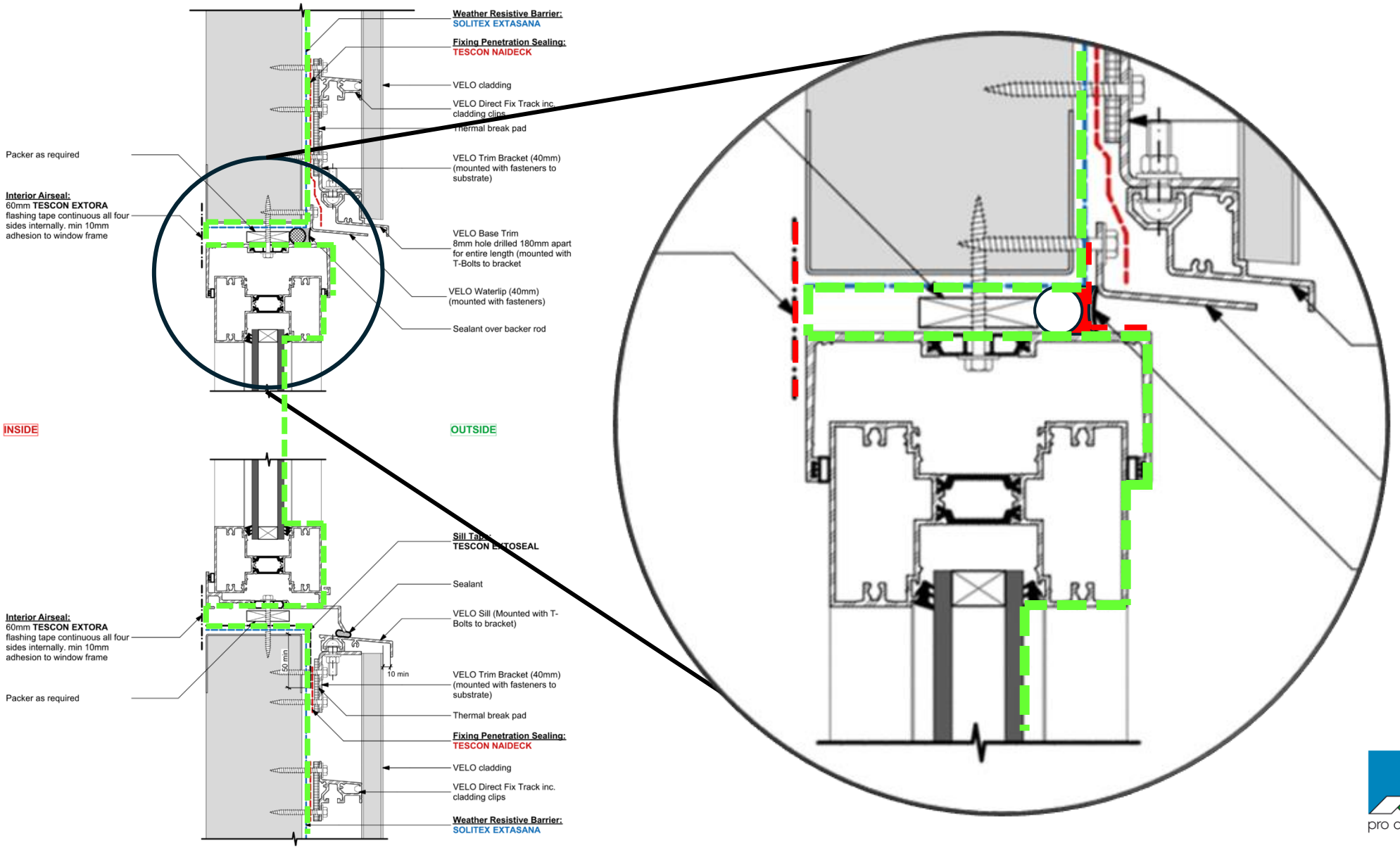
TESCO

AS 4284 Tested Window Details – TESCON EXTORA®



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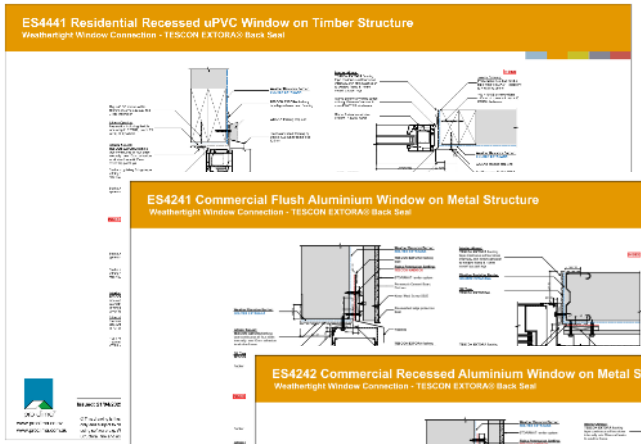
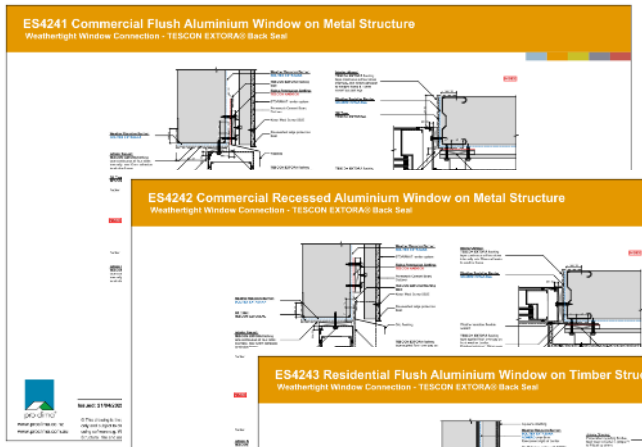
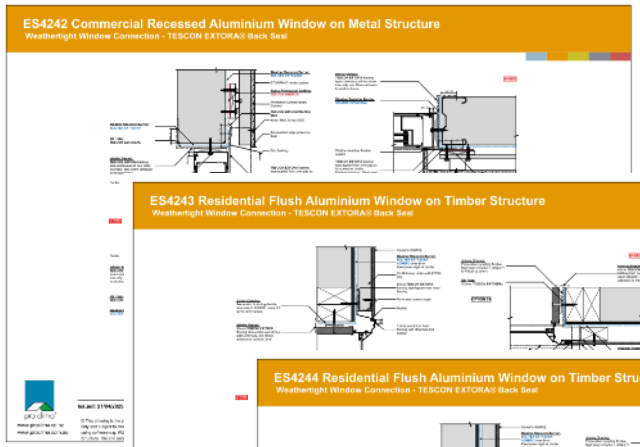
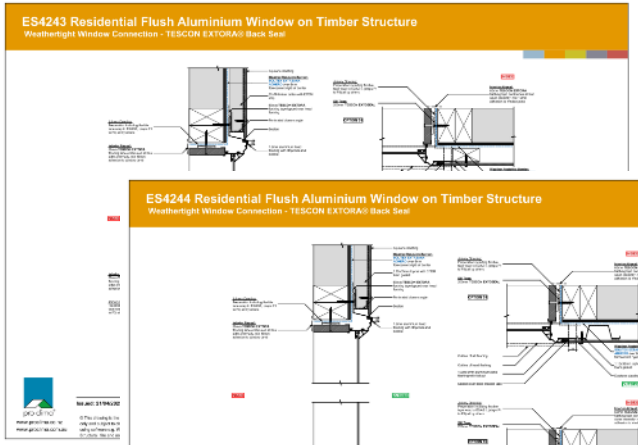
TESCON
EXTORA
Flashing Tape

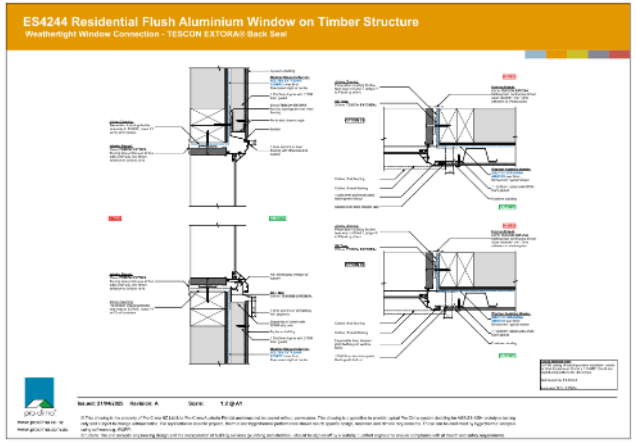
AS/NZS 4284 Tested Window Details – TESCON EXTORA®

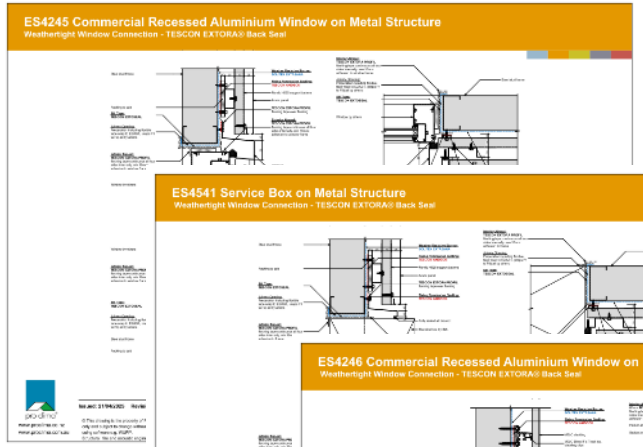


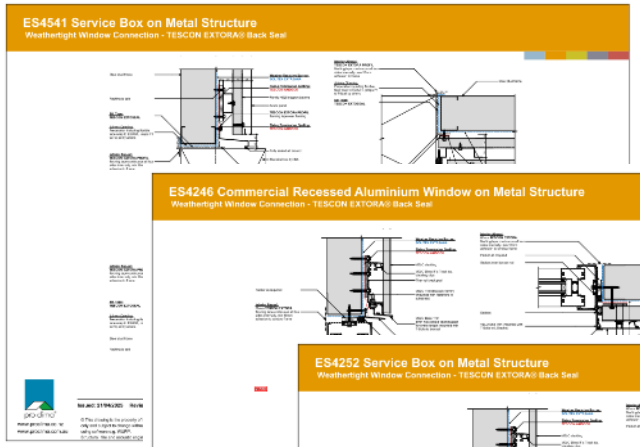


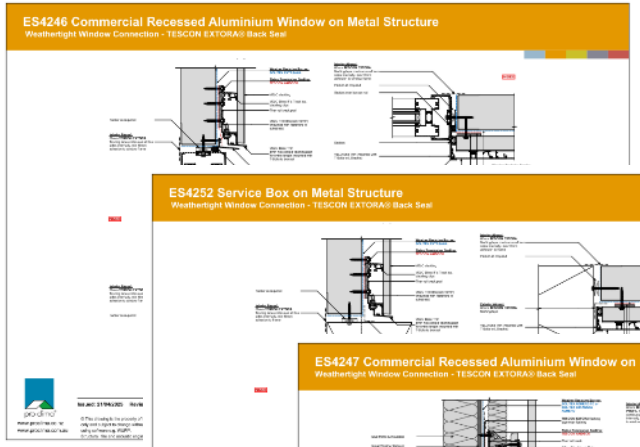


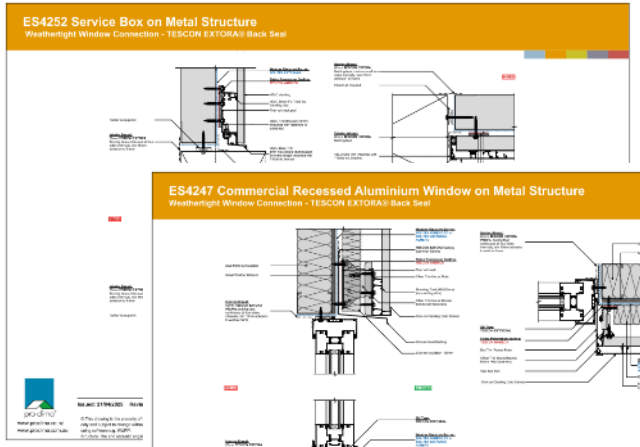


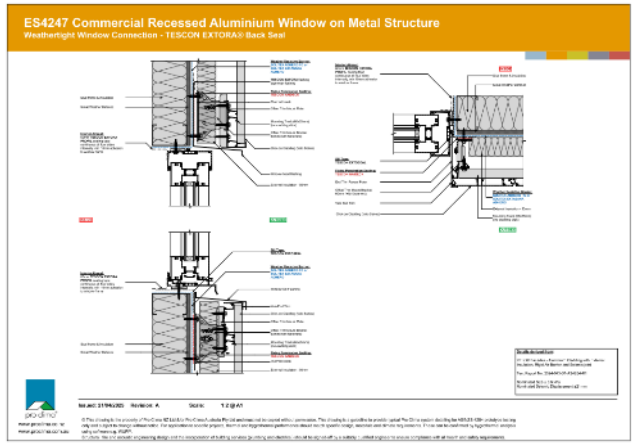












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KNAUF PERMAROCK®

BlueScope

EQUITONE

SCULPTFORM

Facades 7

Rigid Boards

Can handle the pressure

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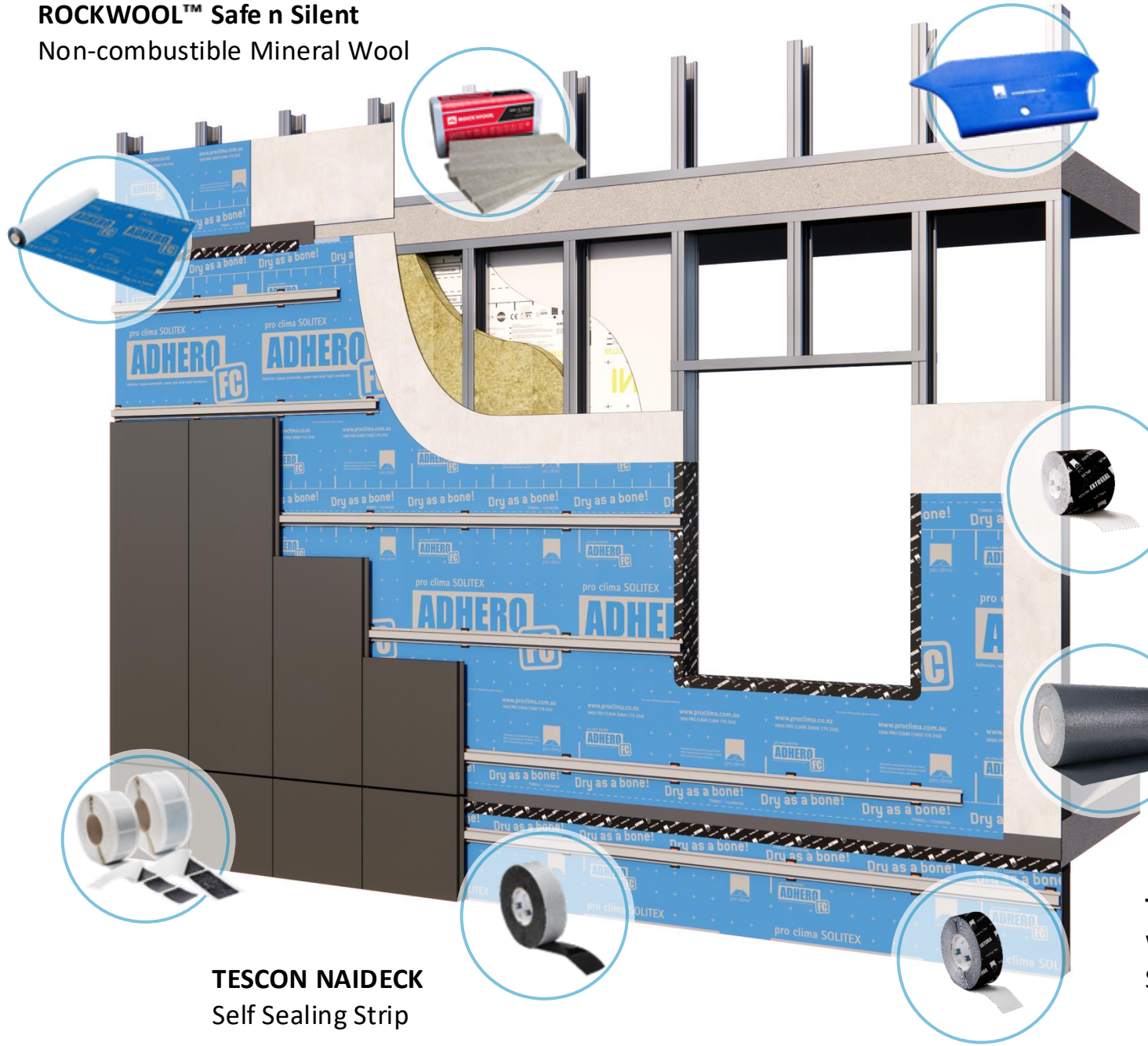
ROCKWOOL™ Safe n Silent
Non-combustible Mineral Wool

SOLITEX ADHERO® FC
SOLITEX EXTASANA ADHERO®
Adhesive WRB Membrane



PRESSFIX XL
Pressing Tool

TESCON EXTOSEAL®
Sill Tape

TFLEX
Façade Control
Joint Material

TESCON EXTORA®
Weathertight
Sealing Tape

TESCON NAIDECK Patch
Self Sealing Patches

TESCON NAIDECK
Self Sealing Strip

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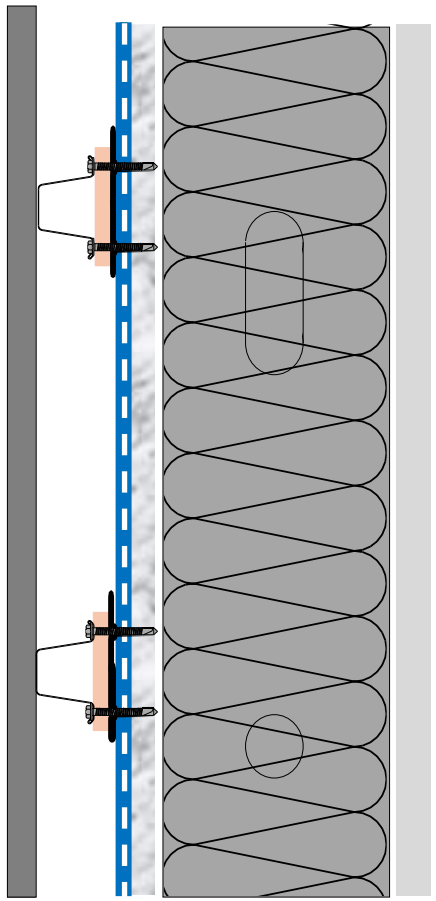

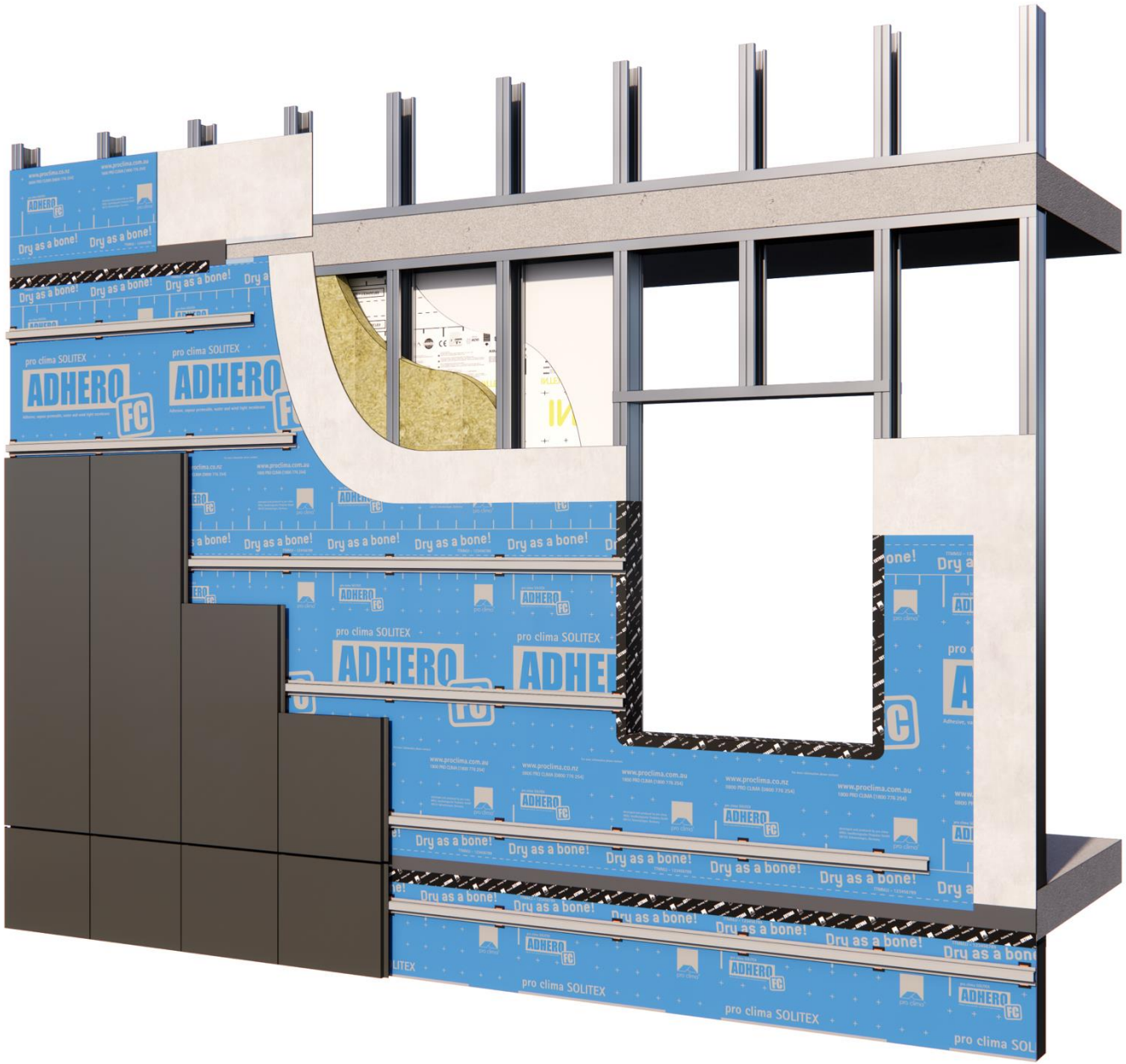

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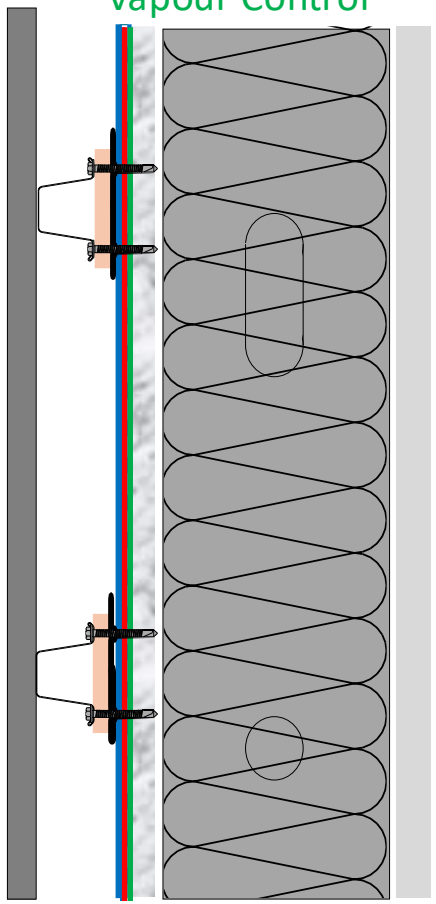
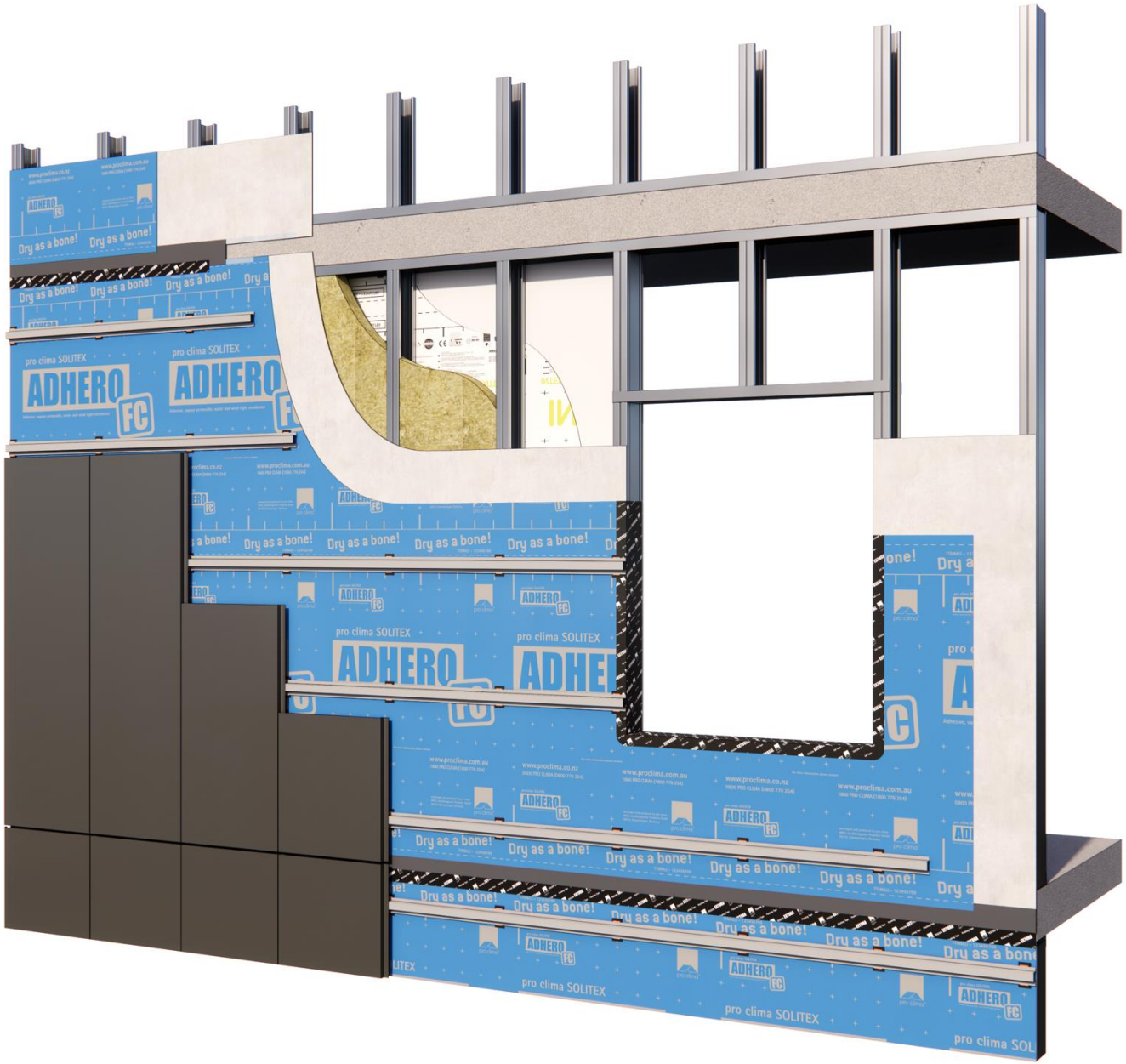
Water Barrier
Air Barrier
Vapour Control

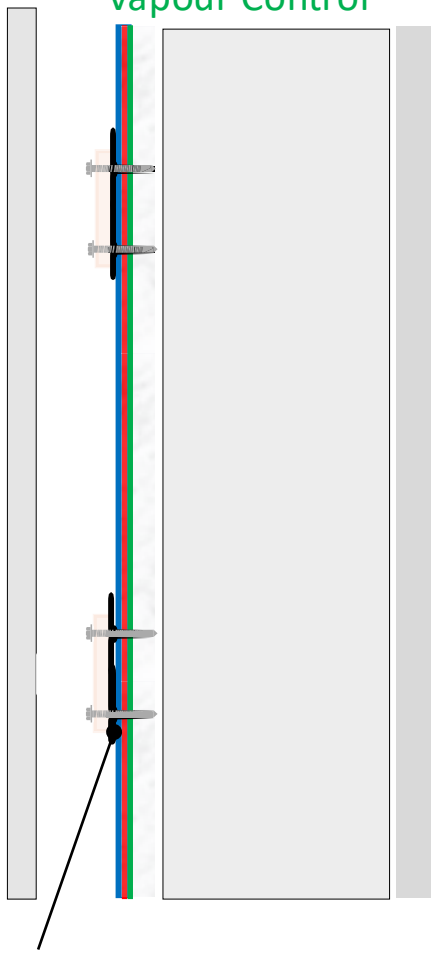




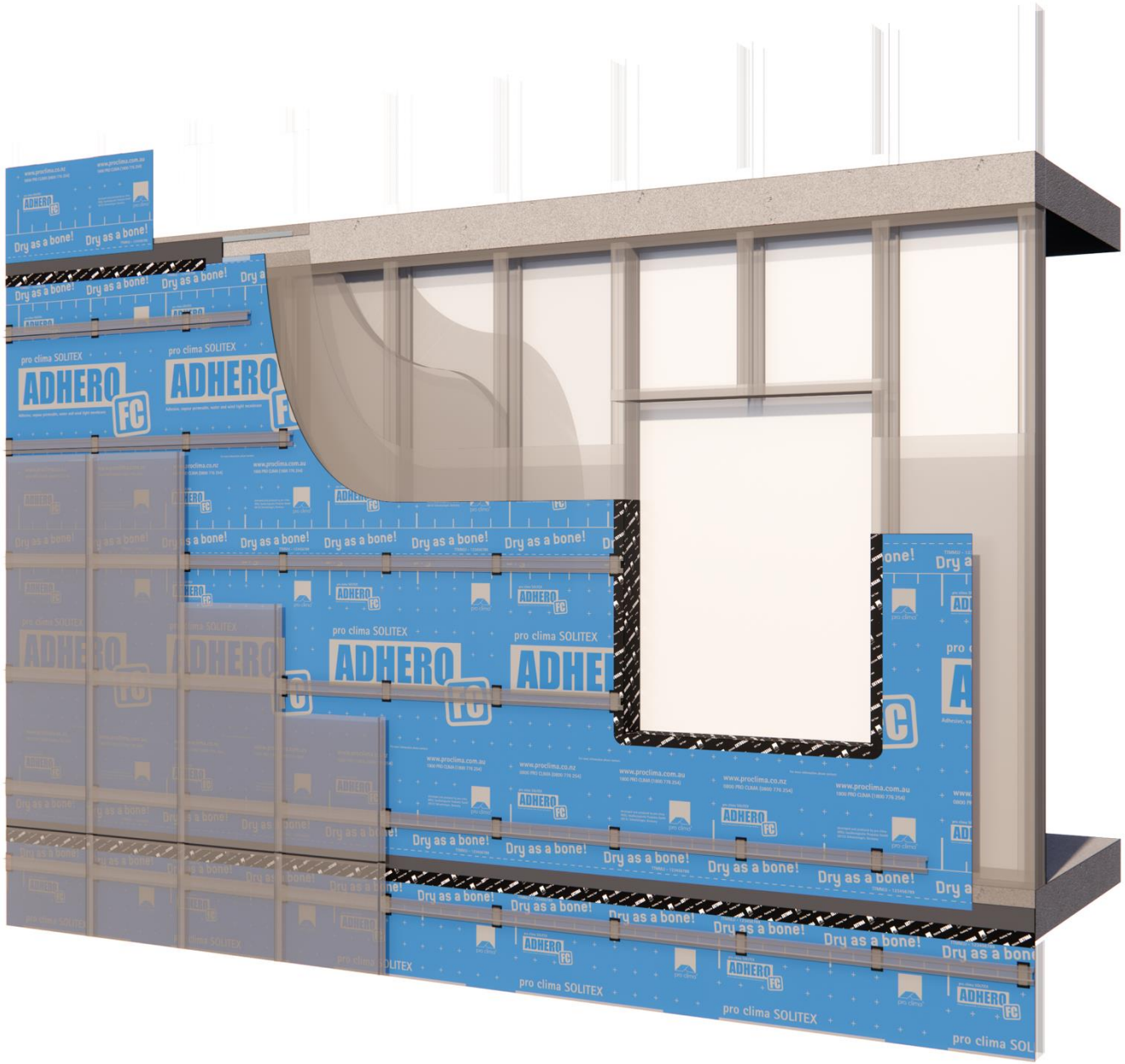
pro clima

FORTX

Water Barrier
Air Barrier
Vapour Control



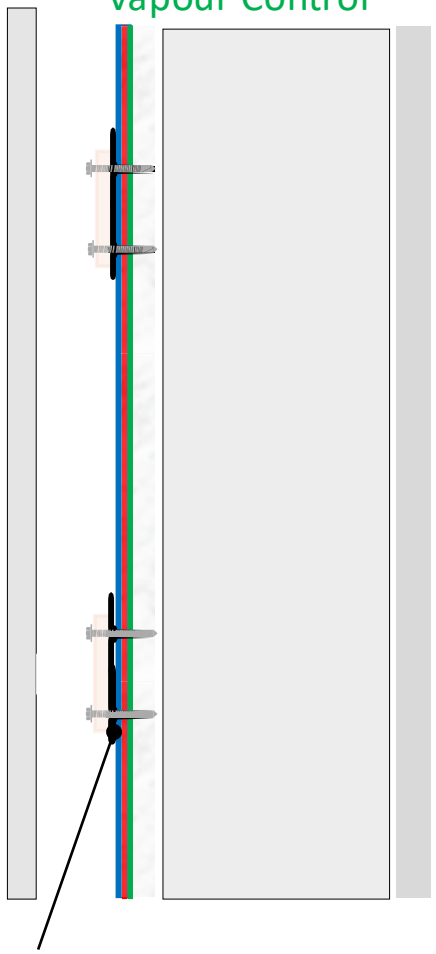
Attachments



pro clima

FORTX

Water Barrier
Air Barrier
Vapour Control



Attachments

Table 4. Air Infiltration observations and results.

File: 2025-016-S1-AI1		**Date: 03/03/2025**
Chamber Pressure (Pa)	**Sample Leakage (L/S)**	**Sample Leakage (L/S/m²)**
+150	0.3	Less than 0.1¶
-150	0.1	Less than 0.1¶
+50*	0.2	Less than 0.1¶
-50*	0.2	Less than 0.1¶
+75*	0.4	Less than 0.1¶
-75*	0.1	Less than 0.1¶
+300*	0.2	Less than 0.1¶
-300*	0.1	Less than 0.1¶

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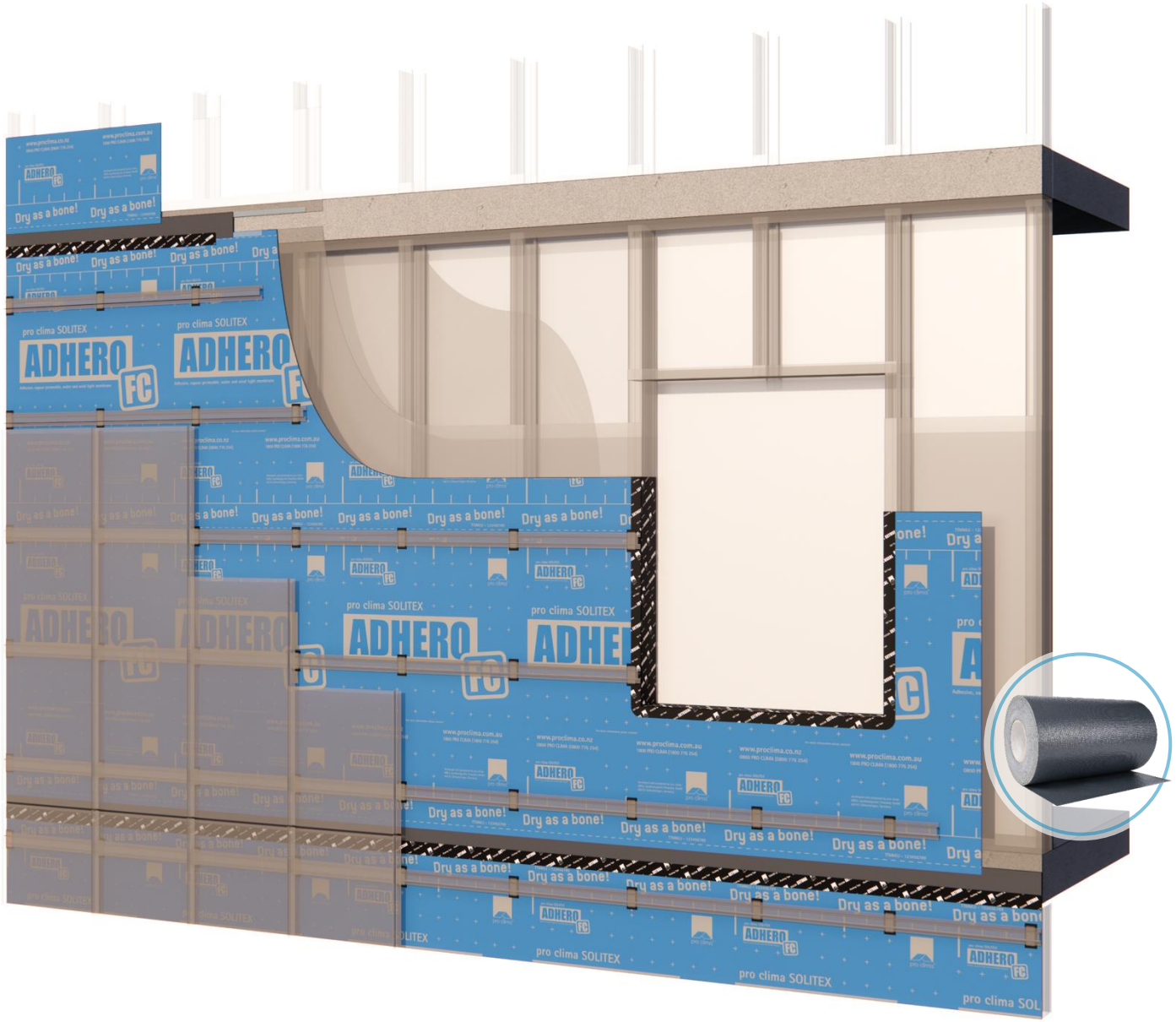
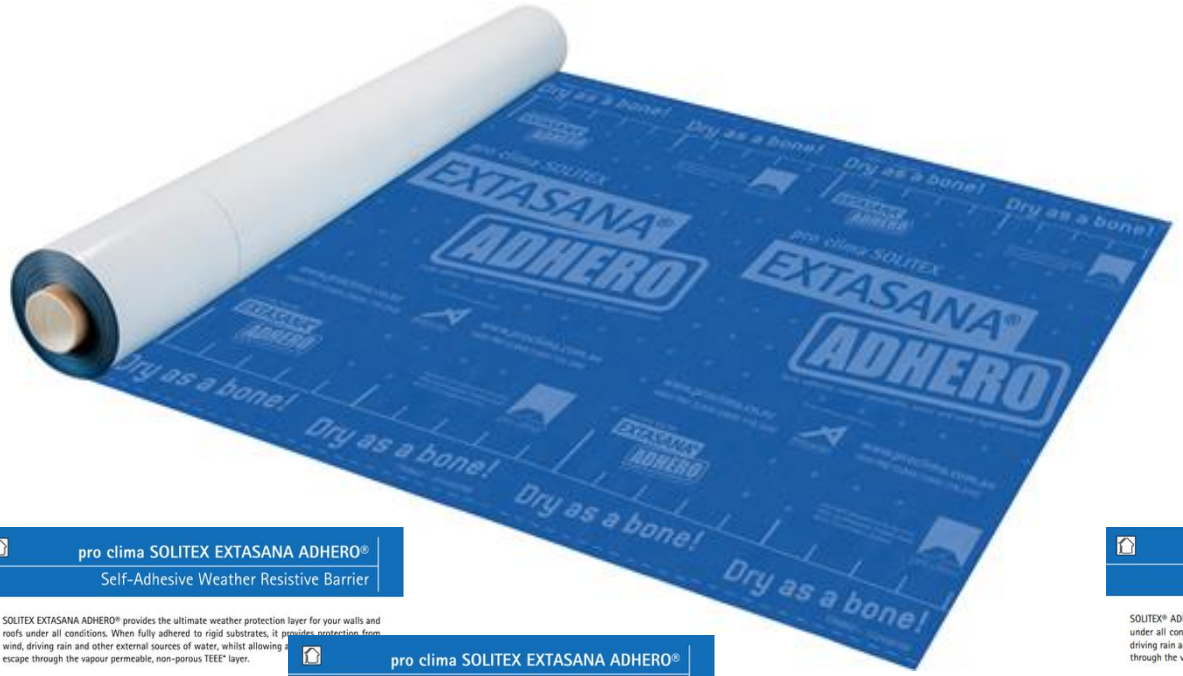
siniat
Weather Defence



TFLEX
Façade Control
Joint Material



pro clima SOLITEX EXTASANA ADHERO®

Self-Adhesive Weather Resistive Barrier

SOLITEX EXTASANA ADHERO® provides the ultimate weather protection layer for your walls and roofs under all conditions. When fully adhered to rigid substrates, it provides protection from wind, driving rain and other external sources of water, whilst allowing any moisture to escape through the vapour permeable, non-porous TEEE* layer.

- Superior UV resistance (180 days exposure)
- Isolates leaks caused by accidental damage or penetrations
- Outstanding long-term durability
- Ultimate resistance against extreme wind gusts
- Ideal for pre-fab systems

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Self-Adhesive Weather Resistive Barrier

Technical Data

Cover fleece + protective layer:		Polypropylene microfibre		
Membrane:		Monolithic TEEE* film		
Adhesive:		Water-resistant SOLID adhesive		
Release film:		Silicone-coated PE film		
UV stability and outdoor exposure:		180 Days		ASTM G154
Duty classification:		Depends on substrate**		
Vapour classification:		Depends on substrate**		
Thickness:		0.70 mm ± 0.05 mm		EN 1849-2
Flammability index:		≤ 5		AS 1530.2
Temperature resistance:		-40 °C to +100 °C		
Heat shrinkage @ 70°C:	MD / LD	0.0% / 0.0%		ASTM D1204
Edge tear:	MD / LD	Depends on substrate**		
Tensile strength:	MD / LD	Depends on substrate**		
Burst strength:		Depends on substrate**		
Vapour permeance:		Depends on substrate**		
		10,000 mm		EN ISO 811
Water control:		Pass (< 100 mm)		AS/NZS 4201.4
		Water barrier		AS/NZS 4200.1
Emittance:	Front / Back	0.9 / 0.9		AS/NZS 4200.1
	Classification	NN		AS/NZS 4200.1
Surface water absorbency:		> 150 g/m²		AS/NZS 4201.6
		High (> 100 g/m²)		AS/NZS 4200.1
Air control:		≥ 0.1 MN/m²		ISO 5636-5, BS 6538-3
		Air barrier		AS/NZS 4200.1
Moisture shrinkage:		N/A (fully adhered membrane)		AS/NZS 4201.3
Surface weight:		240 g/m² ± 5 g/m²		EN 1849-2
Electrical conductivity:		Electrically non-conductive		AS/NZS 4200.1

*TEEE: Thermoplastic Elastomer Ether Ester, **Performance characteristics will be modified by the rigid substrate

IMPORTANT INFORMATION

- This product is deemed non-combustible* as it is less than 1mm thick and has flammability index less than 5.
- This product is designed to withstand up to 180 days UV exposure before cladding is installed.
- This product can withstand exposure to temperatures of up to 100°C and down to -40°C behind external claddings.

*According to NCC 2019 Vol 1 C1.9 (e)(vi), NCC 2019 Vol 2 3.7.1.1(f) , NCC 2022 Vol 1 C2D10 (6)(f) & NCC 2022 Vol 2 H2D2 (1)(f)

PRODUCT DESCRIPTION

SOLITEX EXTASANA ADHERO® is a UV stabilised and tear resistant self-adhesive weather resistive barrier (WRB). A non-porous water resistant TEEE film is laminated at high temperature between two layers of spun bonded polypropylene with a full layer of water-resistant SOLID adhesive and siliconised release paper.

WEATHER EXPOSURE

This product is a weather resistive barrier (WRB) designed to withstand up to 180 days direct exposure to UV and still fulfil the intended use for air and water control. Exterior cladding should be detailed to prevent direct sunlight onto the membrane in service.

APPLICATION NOTES

This product is suitable for use in BAL regions up to and including BAL FZ in accordance with AS 3959

Delivery Form

ID CODE	LENGTH	WIDTH	AREA	KG/ROLL	QTY
1AR01968	30.0 m	1.5 m	45 m²	12	1

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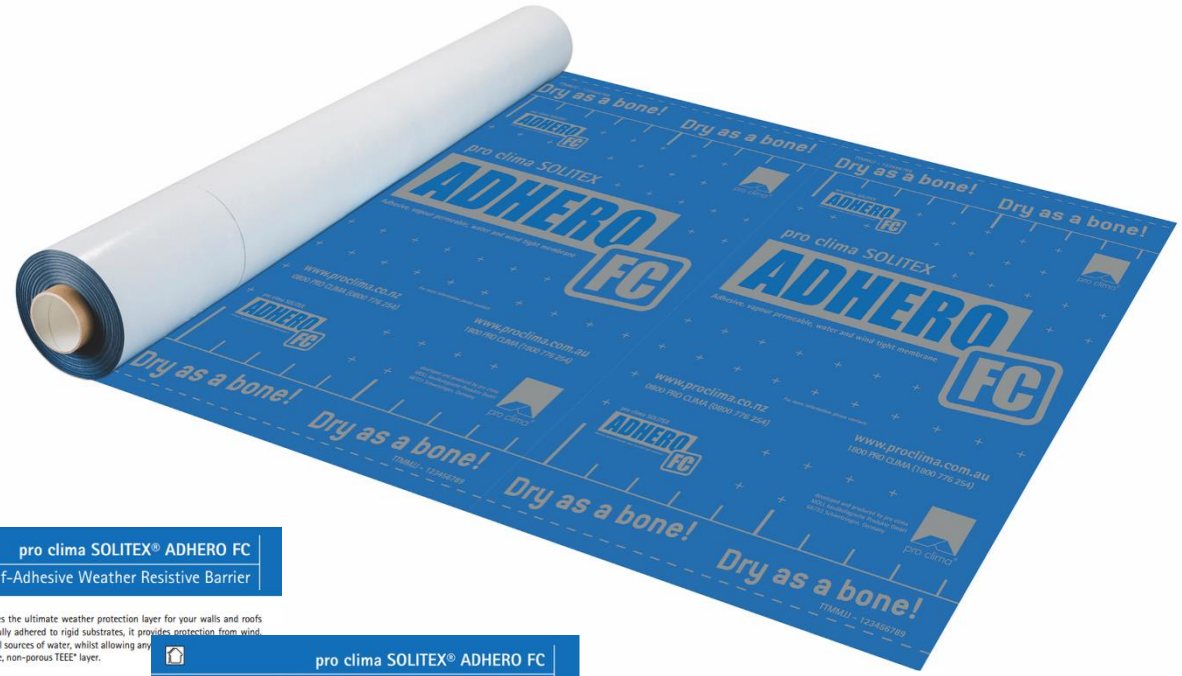
2.1 MN.s/g



pro clima SOLITEX® ADHERO FC

Self-Adhesive Weather Resistive Barrier

SOLITEX® ADHERO FC provides the ultimate weather protection layer for your walls and roofs under all conditions. When fully adhered to rigid substrates, it provides protection from wind, driving rain and other external sources of water, whilst allowing any moisture to escape through the vapour permeable, non-porous TEEE* layer.

- Superior UV resistance (180 days exposure)
- Isolates leaks caused by accidental damage or penetrations
- Outstanding long-term durability
- Ultimate resistance against extreme wind gusts

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pro clima SOLITEX® ADHERO FC

Self-Adhesive Weather Resistive Barrier

Technical Data

Cover fleece + protective layer:		Polypropylene microfibre		
Membrane:		Monolithic TEEE* film		
Adhesive:		Water-resistant SOLID adhesive		
Release film:		Silicone-coated PE film		
UV stability and outdoor exposure:		180 Days		ASTM G154
Duty classification:		Depends on substrate**		
Vapour classification:		Class 4 (Vapour permeable)		AS/NZS 4200.1
Thickness:		0.70 mm ± 0.05 mm		EN 1849-2
Flammability index:		≤ 5		AS 1530.2
Temperature resistance:		-40 °C to +100 °C		
Heat shrinkage @ 70°C:	MD / LD	0.2% / 0.0%		ASTM D1204
Edge tear:	MD / LD	Depends on substrate**		
Tensile strength:	MD / LD	Depends on substrate**		
Burst strength:		Depends on substrate**		
Vapour permeance:		1.69 µg/Ns		ASTM E96 Method B
		10,000 mm		EN ISO 811
Water control:		Pass (< 100 mm)		AS/NZS 4201.4
		Water barrier		AS/NZS 4200.1
Emittance:	Front / Back	0.9 / 0.9		AS/NZS 4200.1
	Classification	NN		AS/NZS 4200.1
Surface water absorbency:		> 150 g/m²		AS/NZS 4201.6
		High (> 100 g/m²)		AS/NZS 4200.1
Air control:		≥ 0.1 MN/m²		ISO 5636-5, BS 6538-3
		Air barrier		AS/NZS 4200.1
Moisture shrinkage:		0.2 %		AS/NZS 4201.3
Surface weight:		240 g/m² ± 5 g/m²		EN 1849-2
Electrical conductivity:		Electrically non-conductive		AS/NZS 4200.1

*TEEE: Thermoplastic Elastomer Ether Ester, **Performance characteristics will be modified by the rigid substrate

IMPORTANT INFORMATION

- This product is deemed non-combustible* as it is less than 1mm thick and has flammability index less than 5.
- This product is designed to withstand up to 180 days UV exposure before cladding is installed.
- This product can withstand exposure to temperatures of up to 100°C and down to -40°C behind external claddings.

*According to NCC 2019 Vol 1 C1.9 (e)(vi), NCC 2019 Vol 2 3.7.1.1(f) , NCC 2022 Vol 1 C2D10 (6)(f) & NCC 2022 Vol 2 H2D2 (1)(f)

PRODUCT DESCRIPTION

SOLITEX® ADHERO FC is a UV stabilised and tear resistant self-adhesive weather resistive barrier (WRB). A non-porous water resistant TEEE film is laminated at high temperature between two layers of spun bonded polypropylene with water-resistant SOLID adhesive and siliconised release paper.

WEATHER EXPOSURE

This product is a weather resistive barrier (WRB) designed to withstand up to 180 days direct exposure to UV and still fulfil the intended use for air and water control. Exterior cladding should be detailed to prevent direct sunlight onto the membrane in service.

APPLICATION NOTES

This product is suitable for use in BAL regions up to and including BAL FZ in accordance with AS 3959

Delivery Form

ID CODE	LENGTH	WIDTH	AREA	KG/ROLL	QTY
1AR04475	30.0 m	1.5 m	45 m²	12	1

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0.59 MN.s/g

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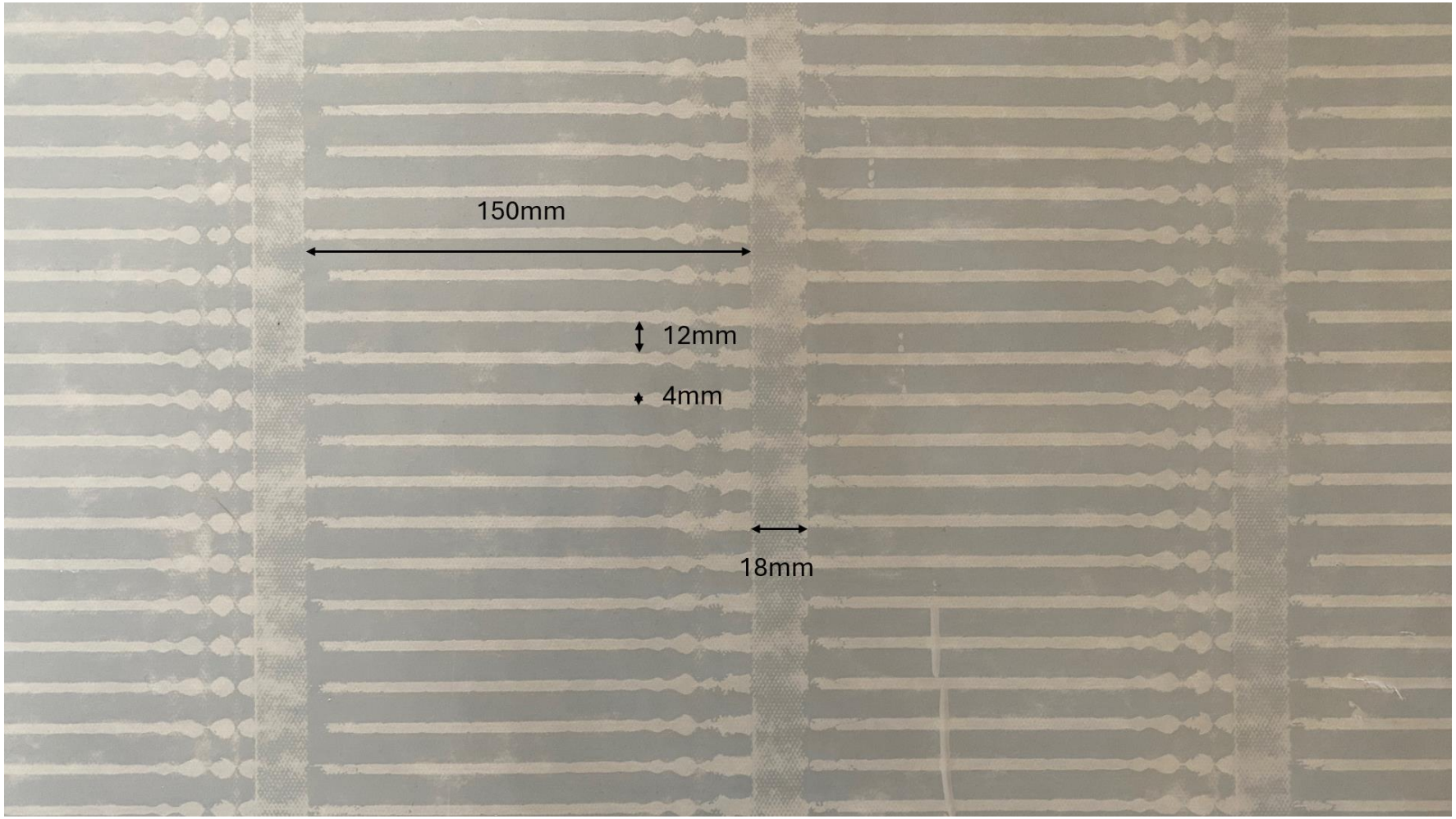
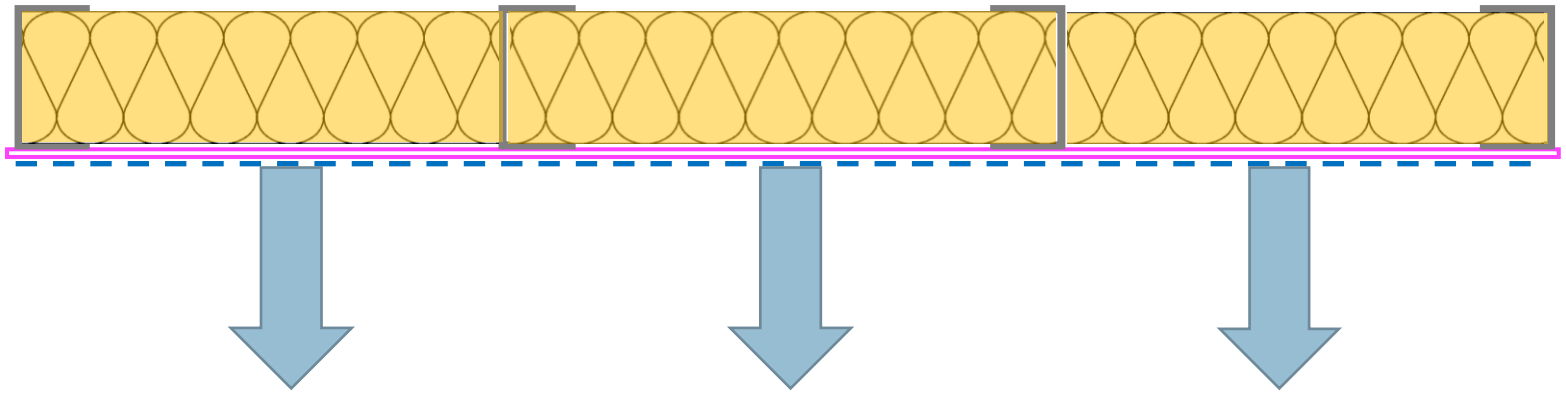
Why SOLITEX ADHERO® FC?

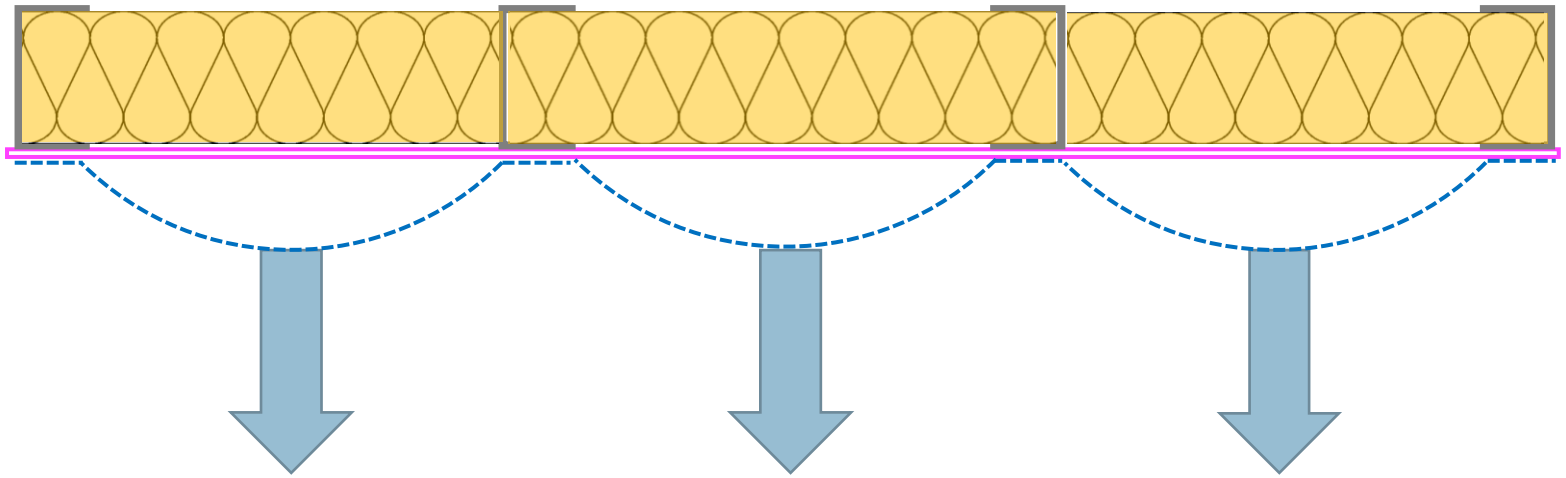


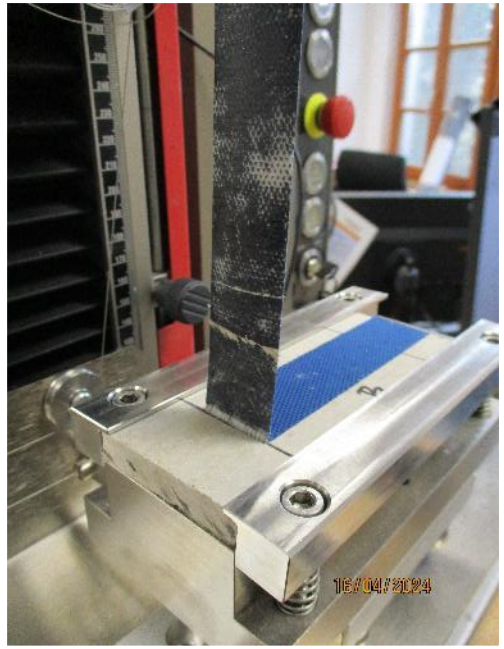
SOLITEX ADHERO® FC utlises pro climas SOLID adhesive with **permavap®** technology to ensure maximum adhesion under strong wind loading and maximise the drying rate of facade and roofing systems.

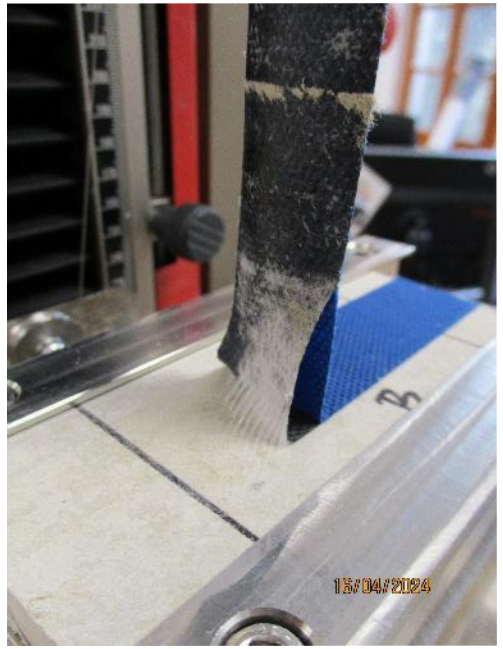
Pressure & Performance

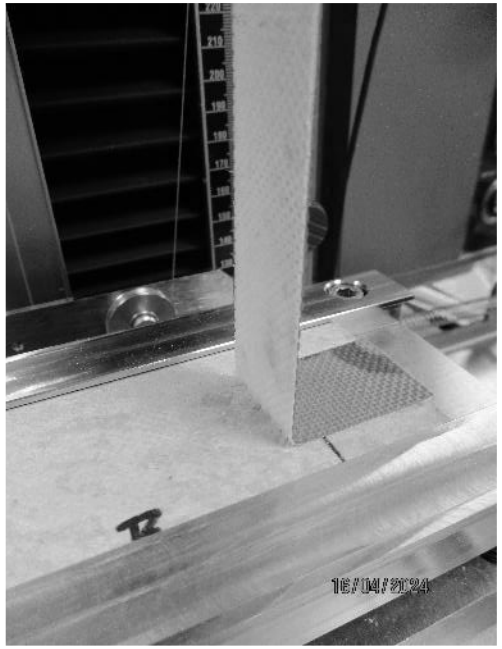


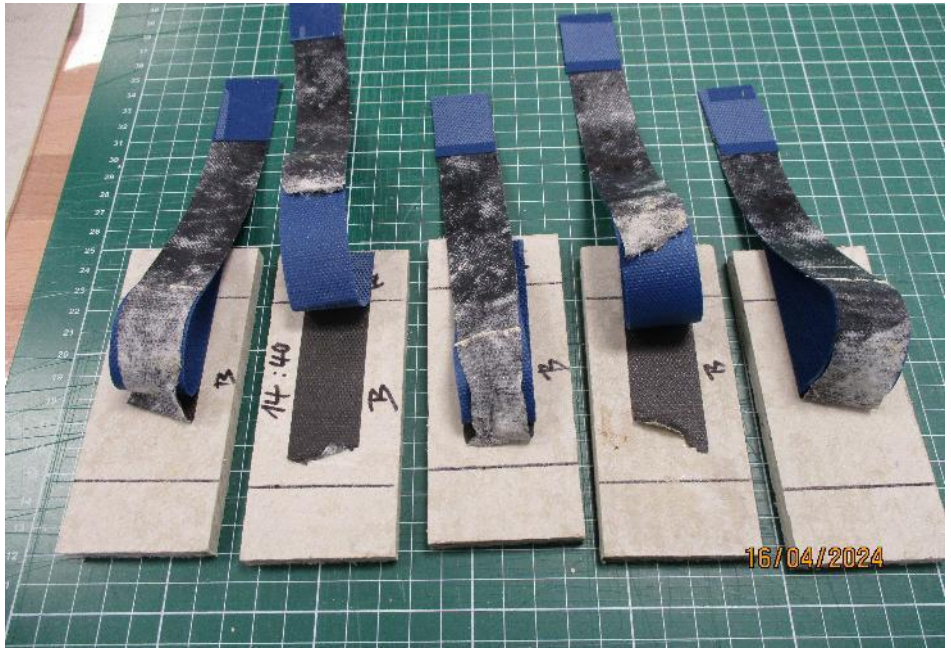
Pressure & Performance

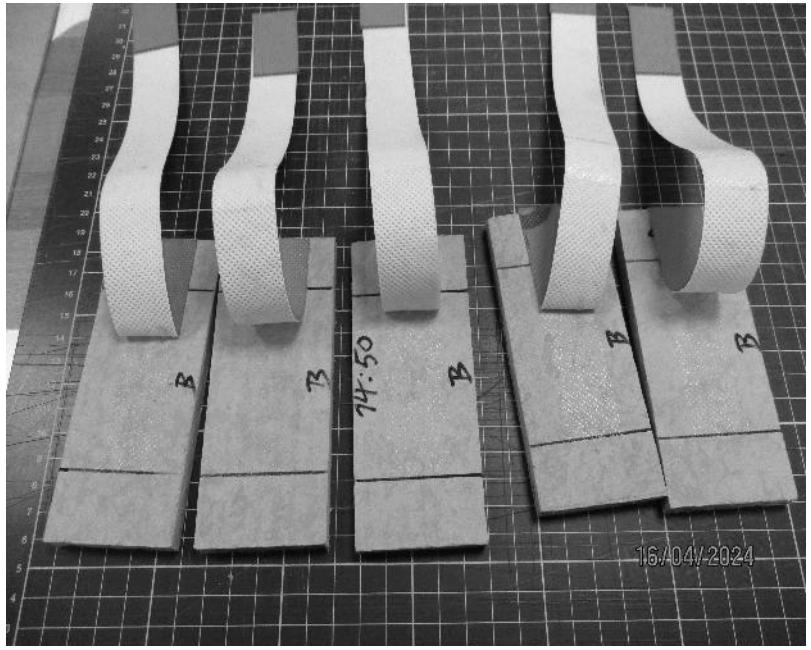


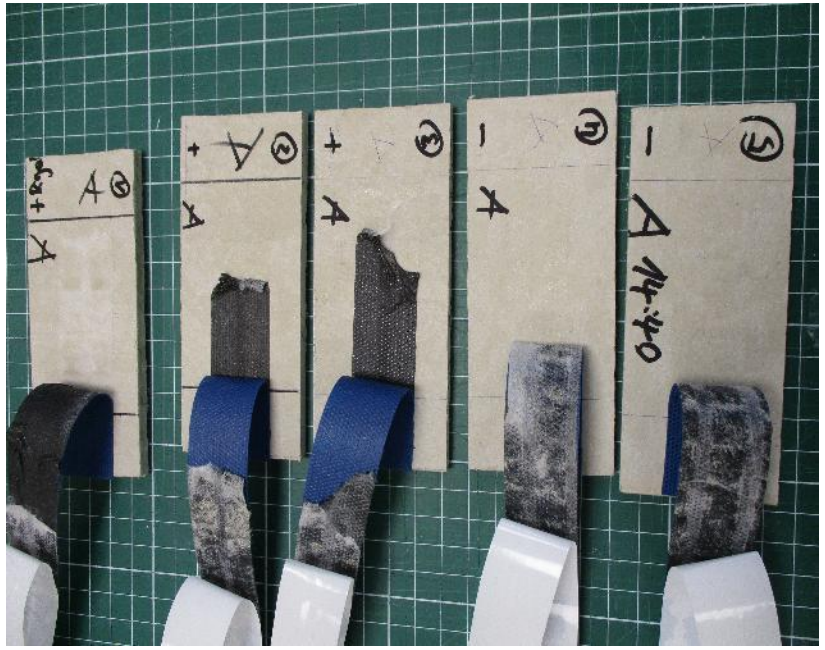




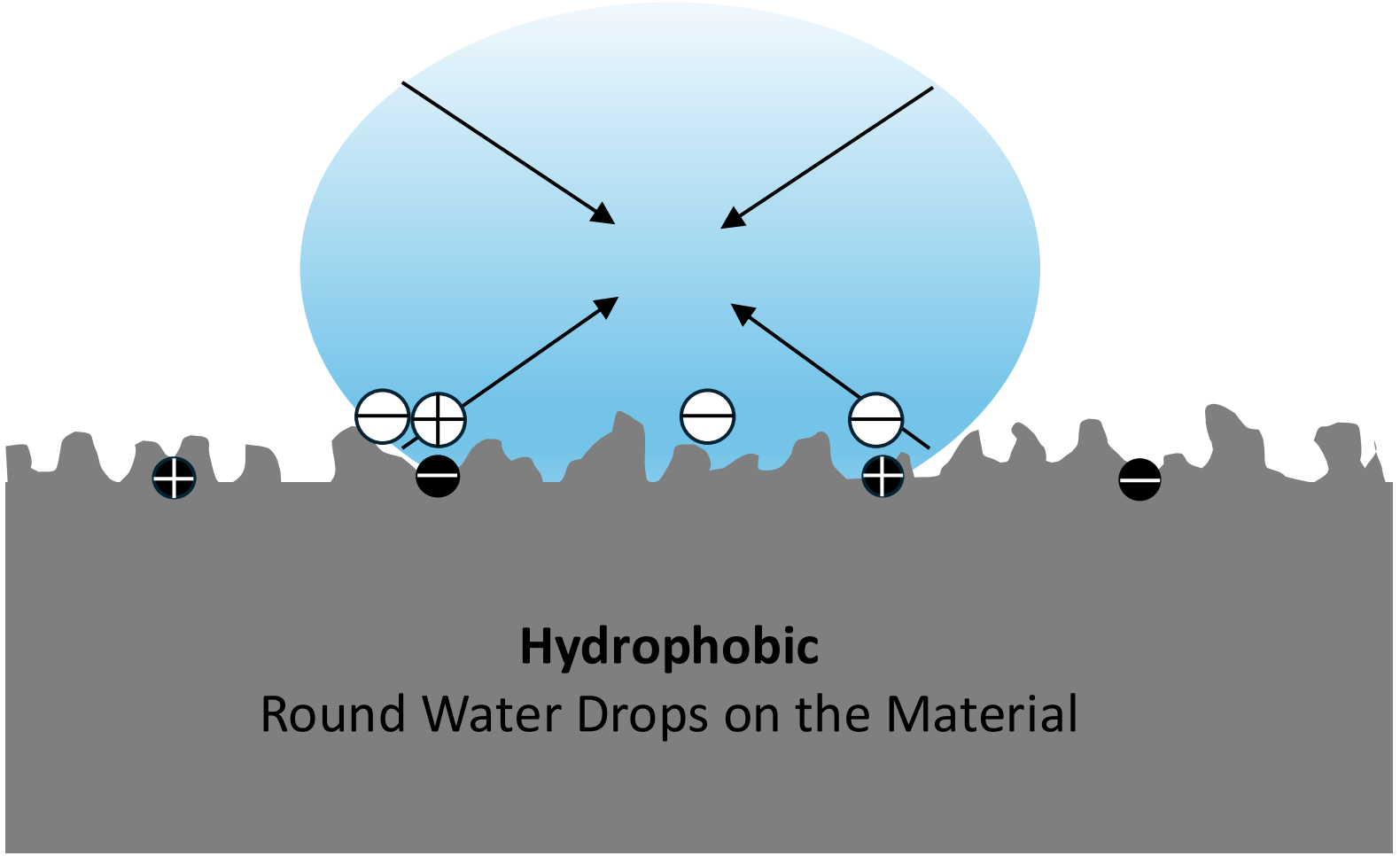






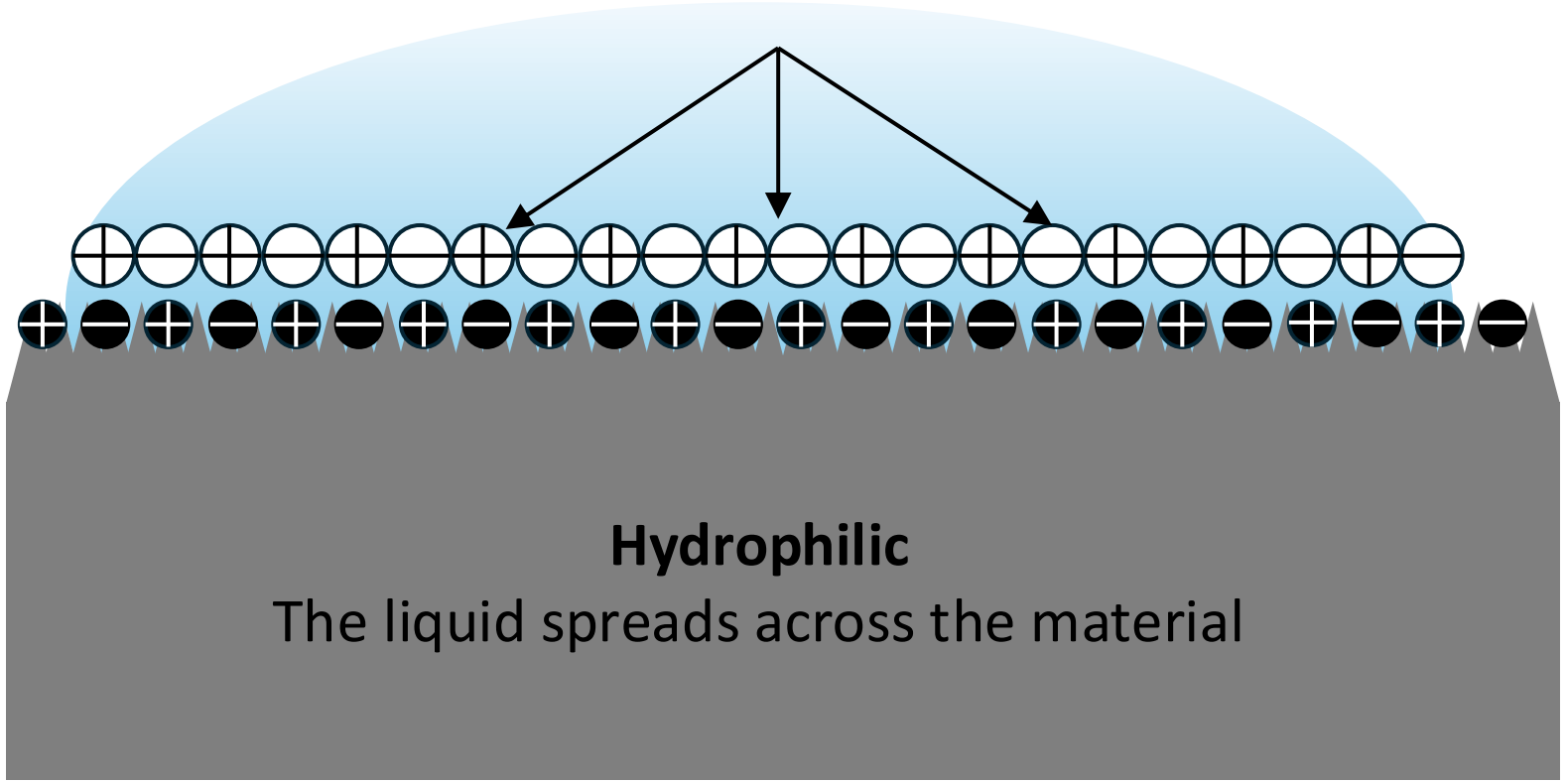


Peel adhesion testing ASTM D 3330 Method F



Hydrophobic
Round Water Drops on the Material

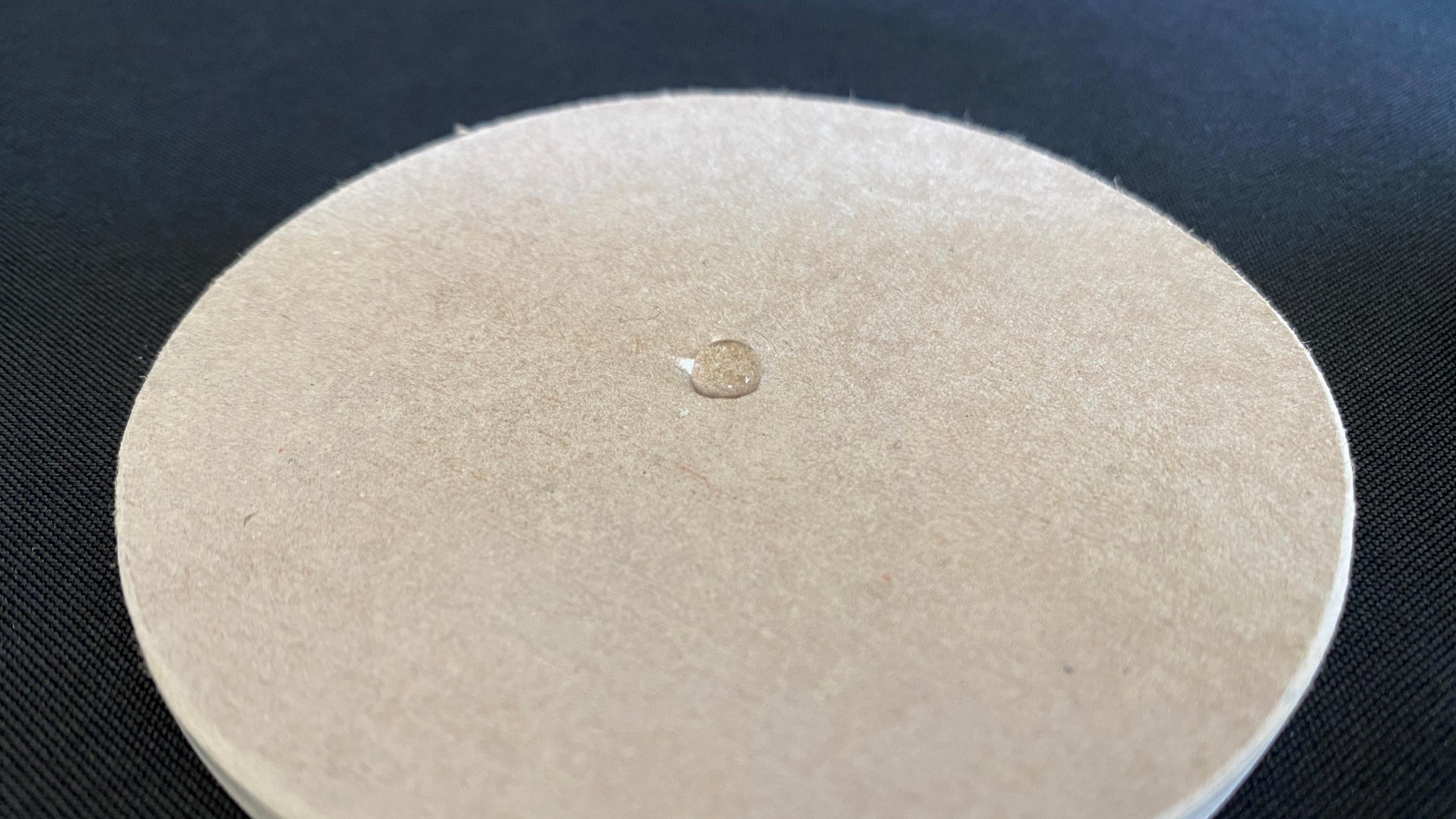
Low-energy surface has few attachment points and a low surface tension.
It cannot pull the water drop out of its shape.

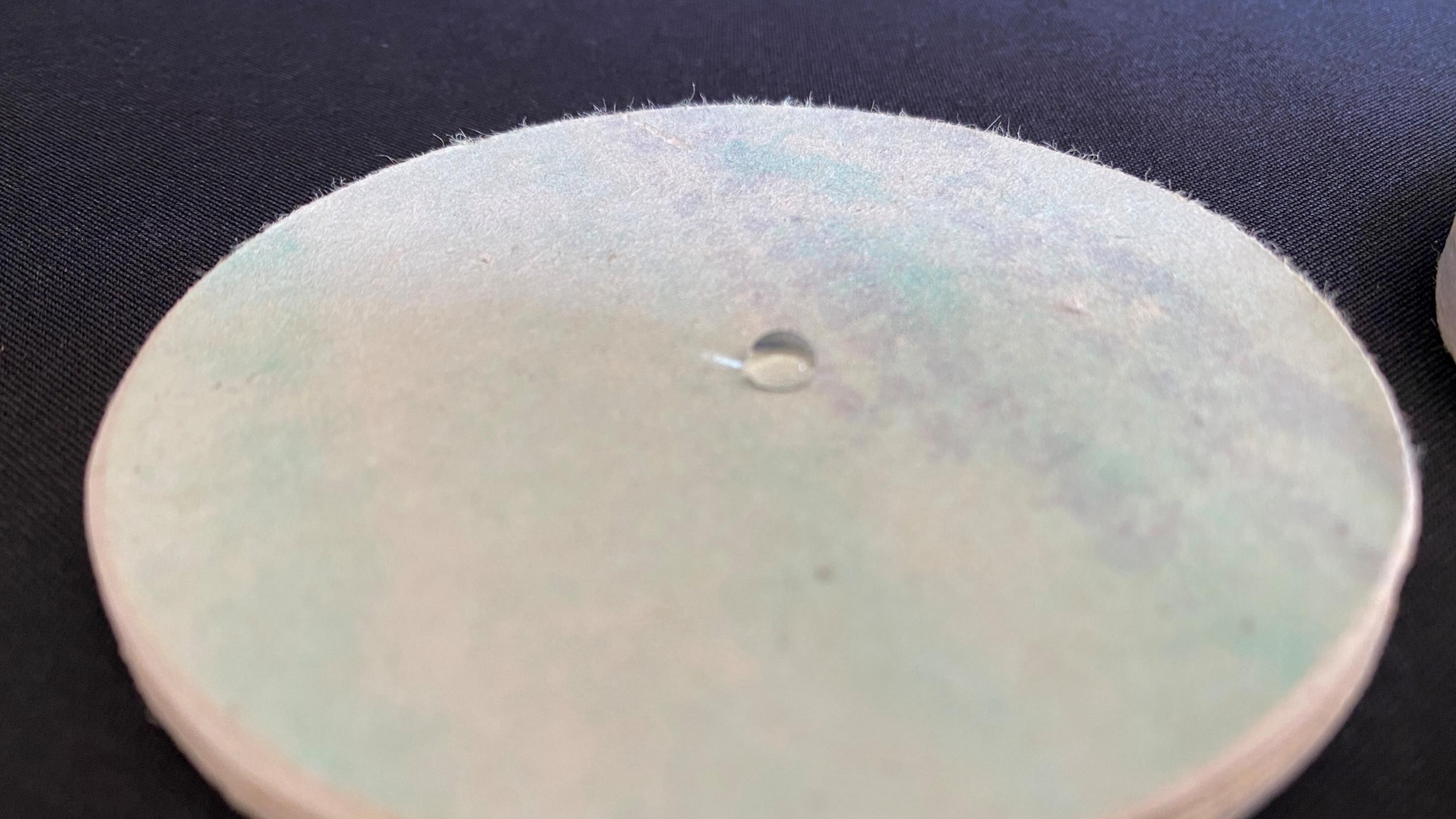


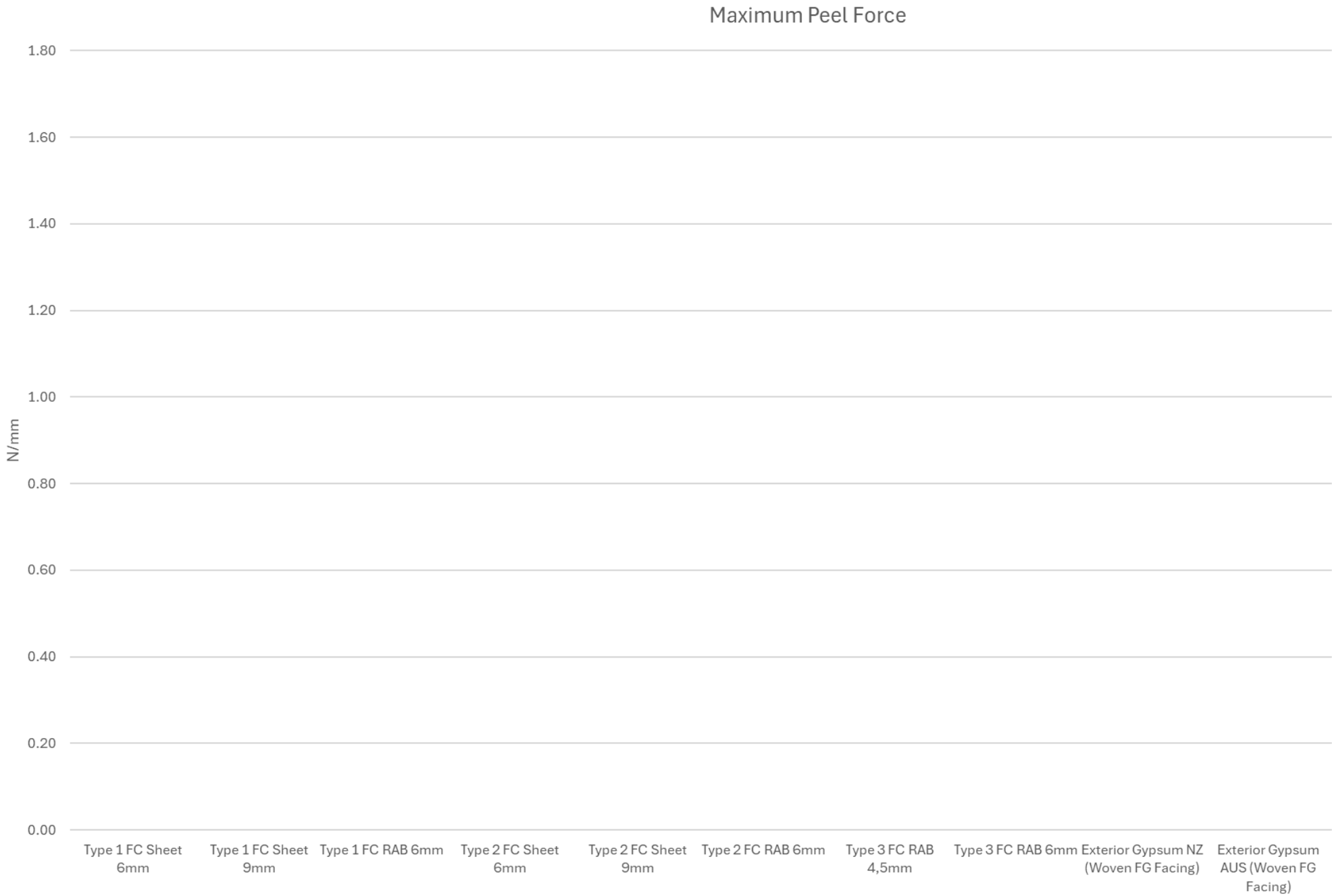
Hydrophilic

The liquid spreads across the material

The more attachment points there are, the more energy the surface has and the more the water drop will be pulled out of its round shape as a result.
The liquid spreads across the material with a high-energy surface.





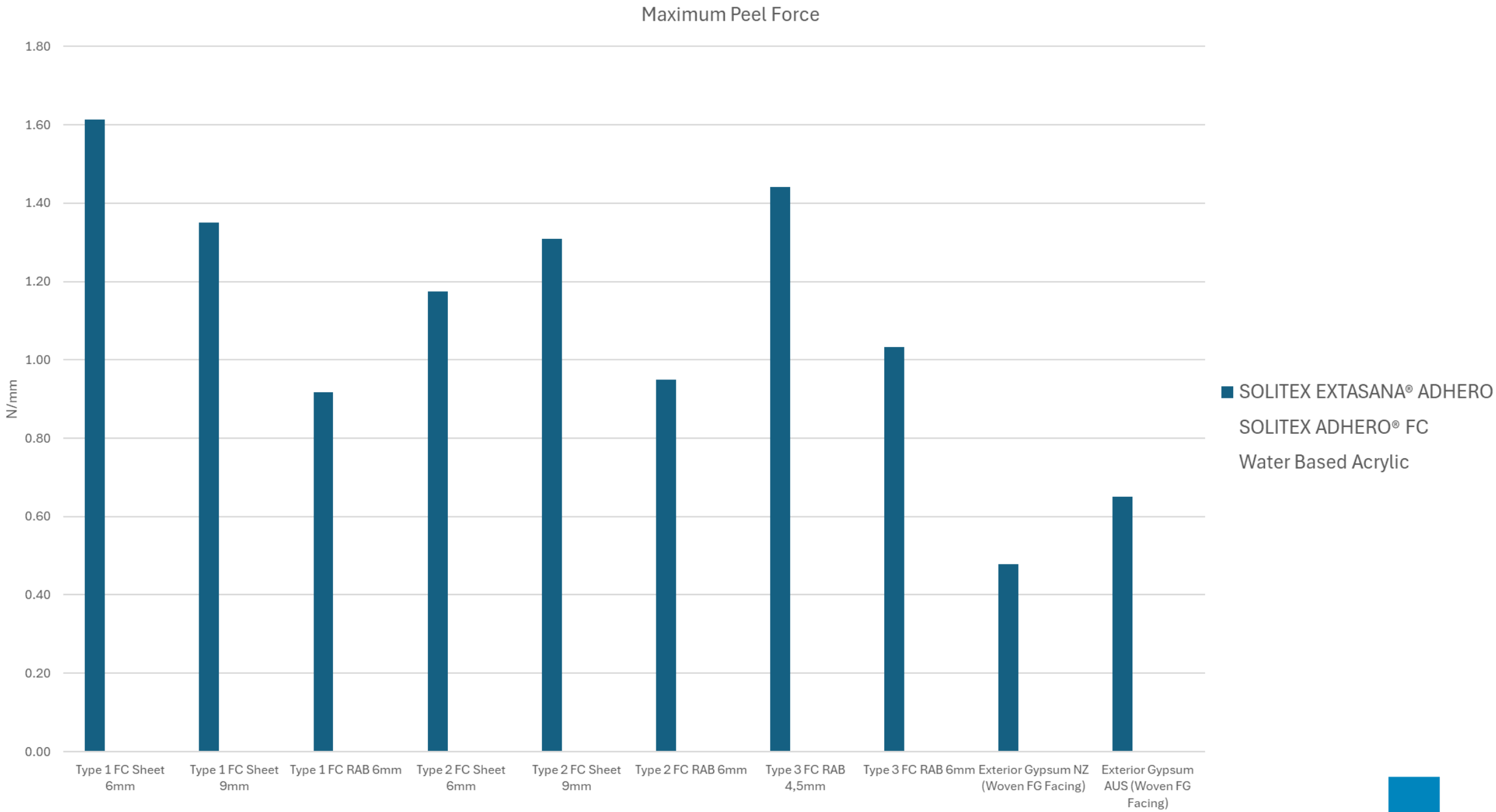


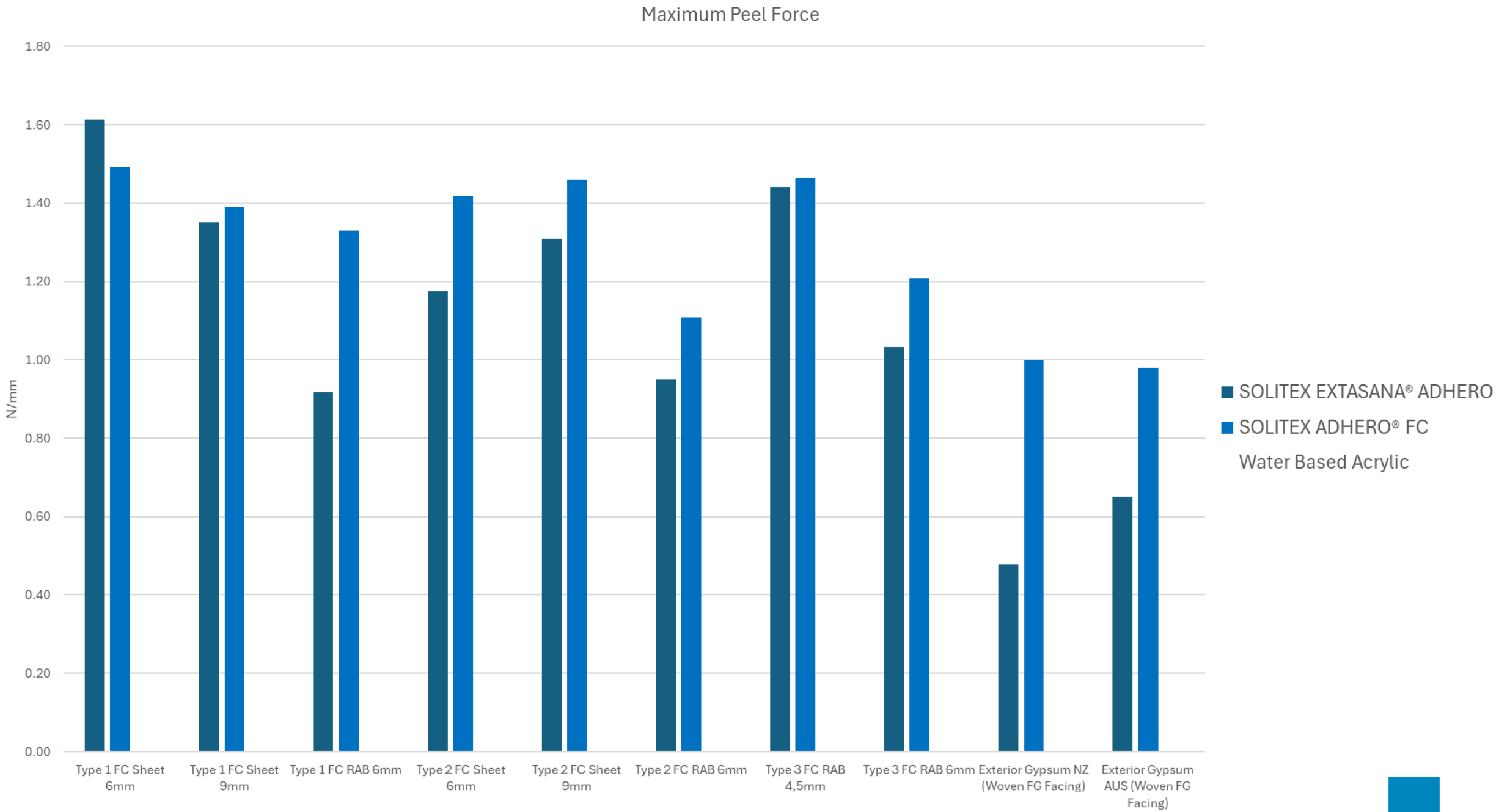
SOLITEX EXTASANA® ADHERO

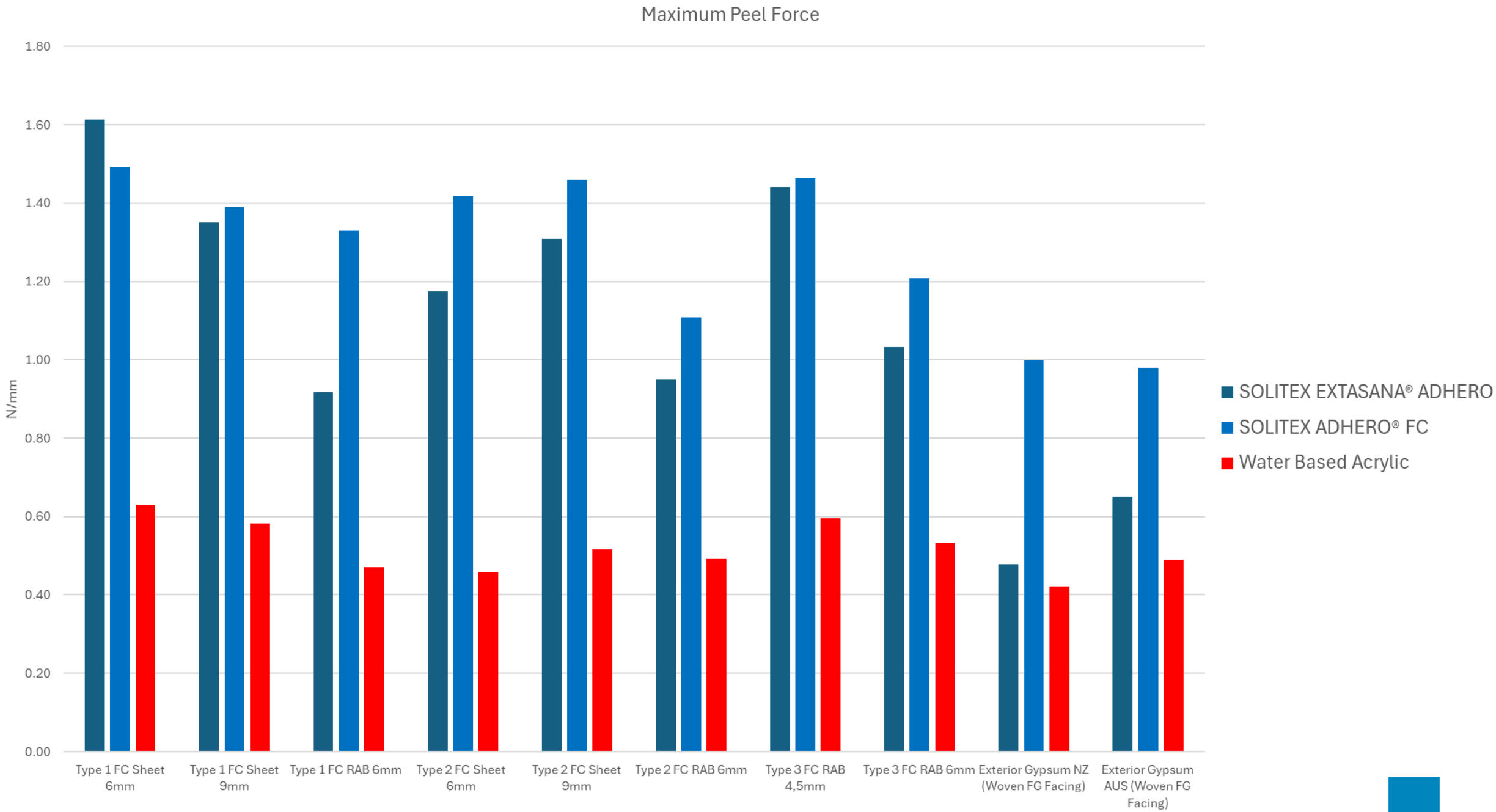
SOLITEX ADHERO® FC

Water Based Acrylic

pro clima®


Maximum Peel Force
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
N/mm
Type 1 FC Sheet 6mm
Type 1 FC Sheet 9mm
Type 1 FC RAB 6mm
Type 2 FC Sheet 6mm
Type 2 FC Sheet 9mm
Type 2 FC RAB 6mm
Type 3 FC RAB 4,5mm
Type 3 FC RAB 6mm
Exterior Gypsum NZ (Woven FG Facing)
Exterior Gypsum AUS (Woven FG Facing)
SOLITEX EXTASANA® ADHERO
SOLITEX ADHERO® FC
Water Based Acrylic


Maximum Peel Force
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
N/mm
Type 1 FC Sheet 6mm
Type 1 FC Sheet 9mm
Type 1 FC RAB 6mm
Type 2 FC Sheet 6mm
Type 2 FC Sheet 9mm
Type 2 FC RAB 6mm
Type 3 FC RAB 4,5mm
Type 3 FC RAB 6mm
Exterior Gypsum NZ (Woven FG Facing)
Exterior Gypsum AUS (Woven FG Facing)
SOLITEX EXTASANA® ADHERO
SOLITEX ADHERO® FC
Water Based Acrylic


Maximum Peel Force
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Type 1 FC Sheet 6mm
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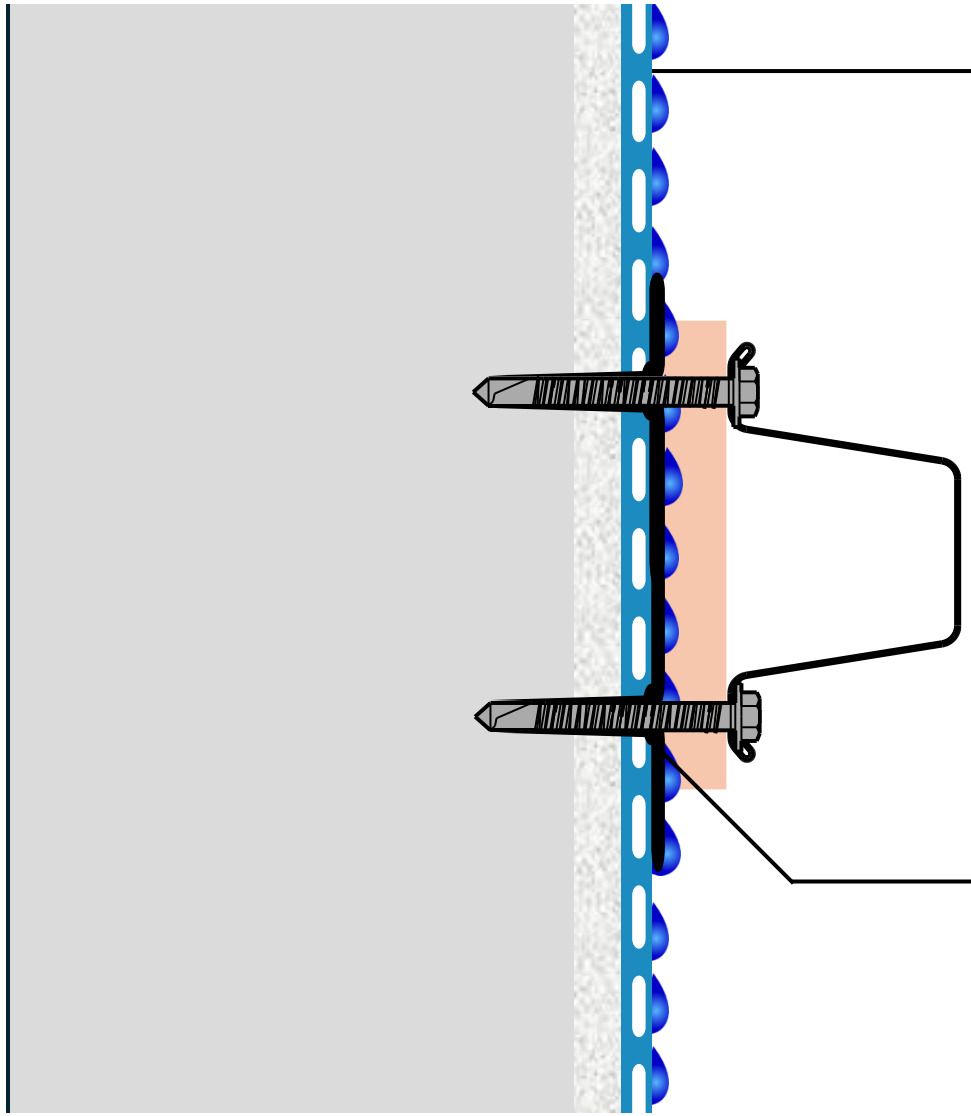
Type 2 FC Sheet 9mm
Type 2 FC RAB 6mm
Type 3 FC RAB 4,5mm
Type 3 FC RAB 6mm
Exterior Gypsum NZ (Woven FG Facing)
Exterior Gypsum AUS (Woven FG Facing)
SOLITEX EXTASANA® ADHERO
SOLITEX ADHERO® FC
Water Based Acrylic

Facades 8

Screw It
It doesn’t even matter

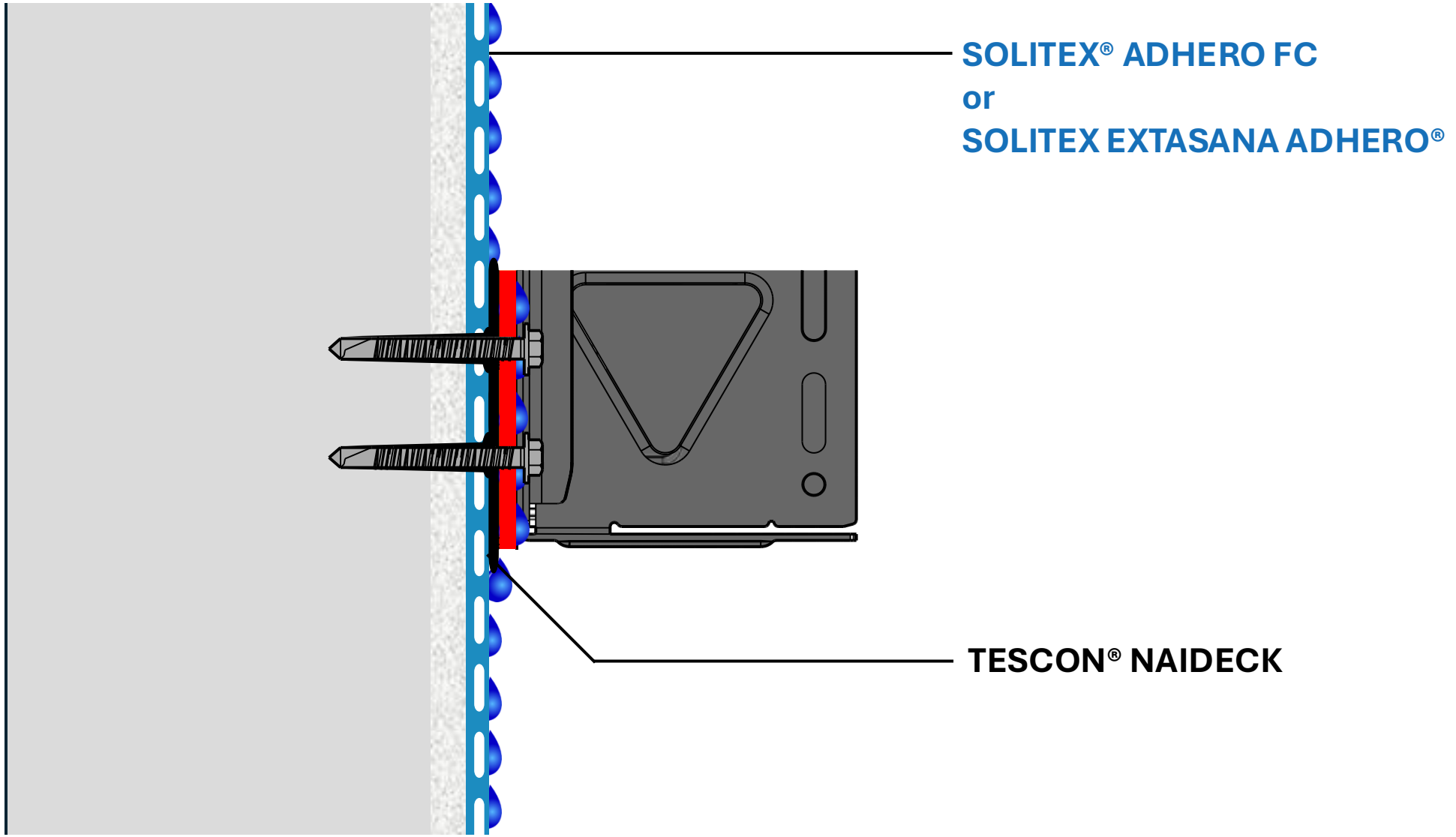
Fixings sealing is critical

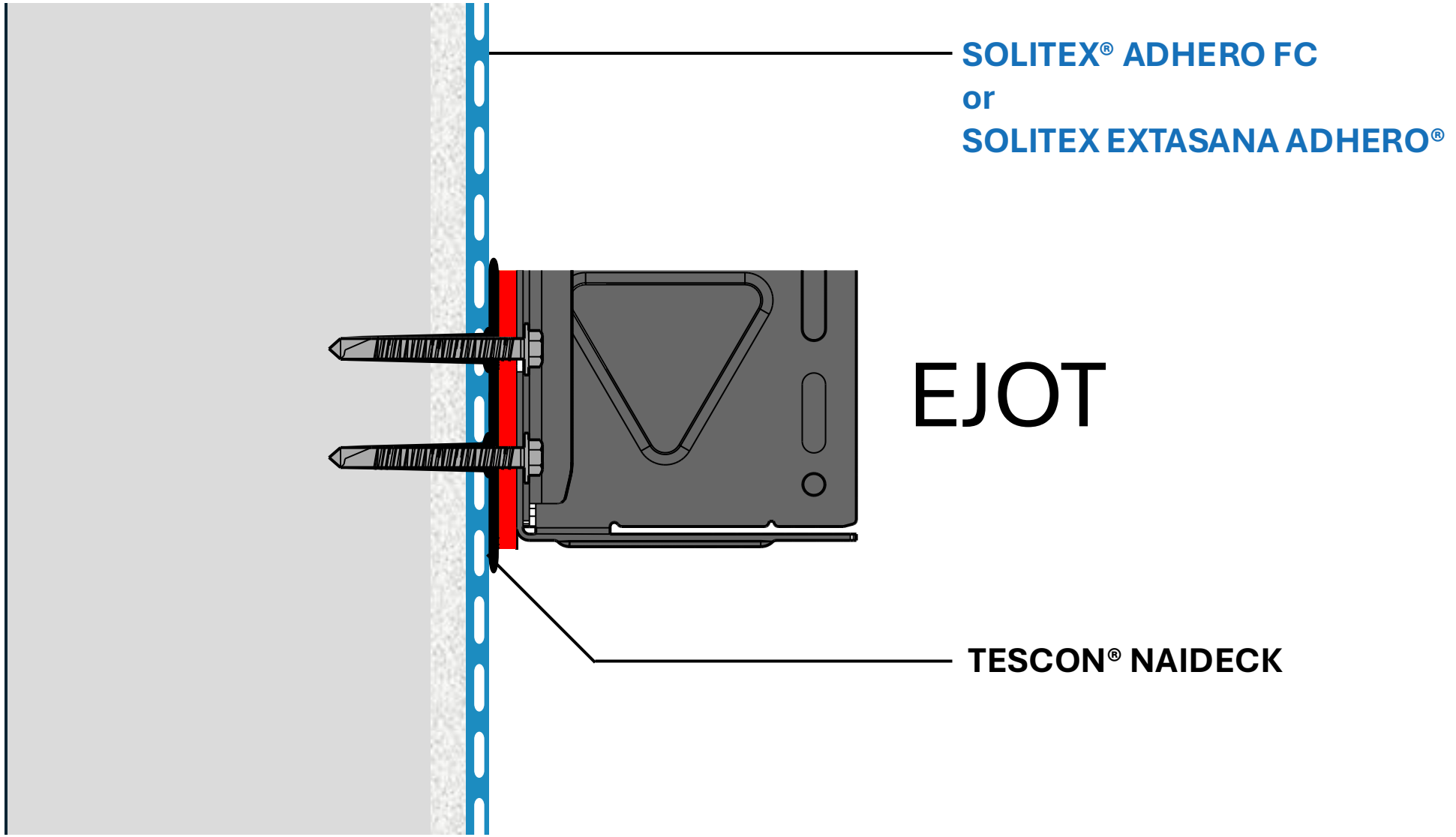
pro clima®

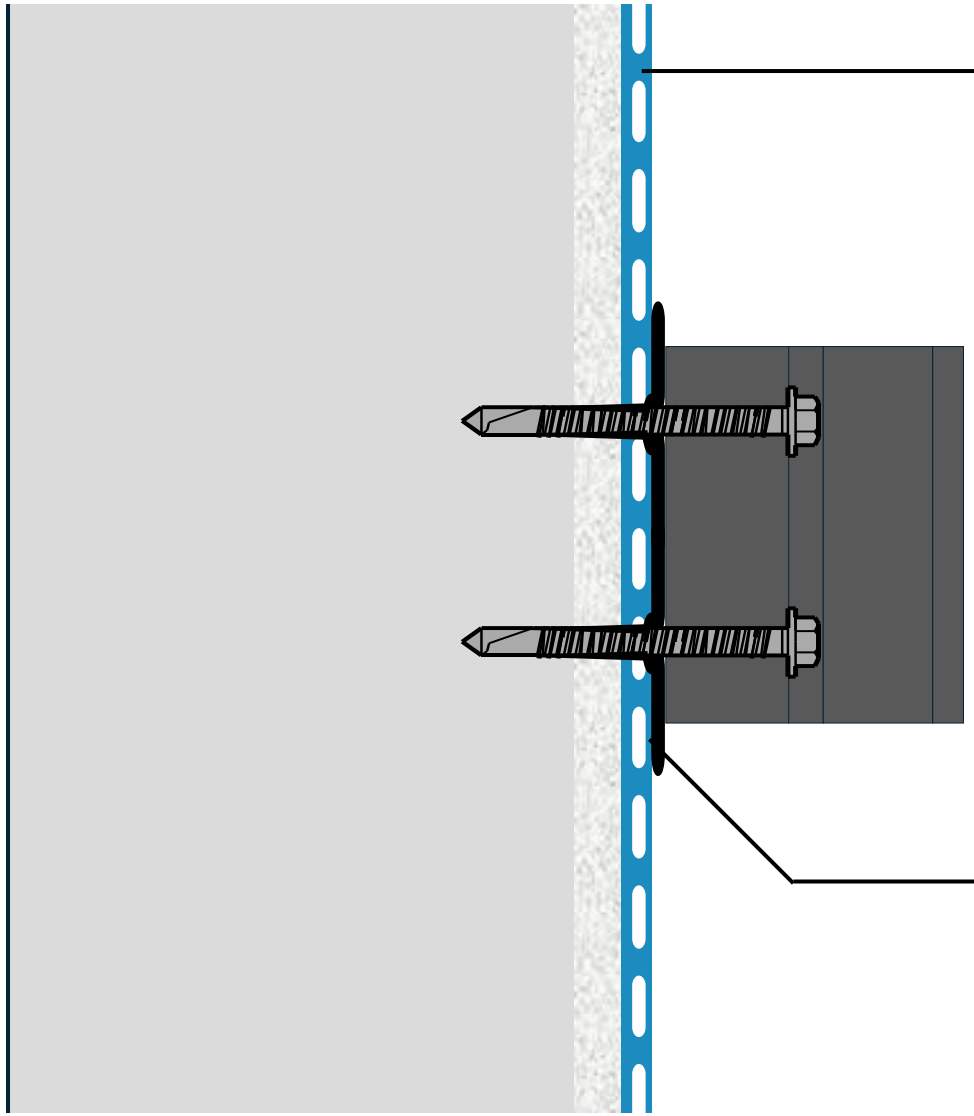


SOLITEX® ADHERO FC
or
SOLITEX EXTASANA ADHERO®

TESCON® NAIDECK


SOLITEX® ADHERO FC
or
SOLITEX EXTASANA ADHERO®
TESCON® NAIDECK


SOLITEX® ADHERO FC
or
SOLITEX EXTASANA ADHERO®
EJOT
TESCON® NAIDECK

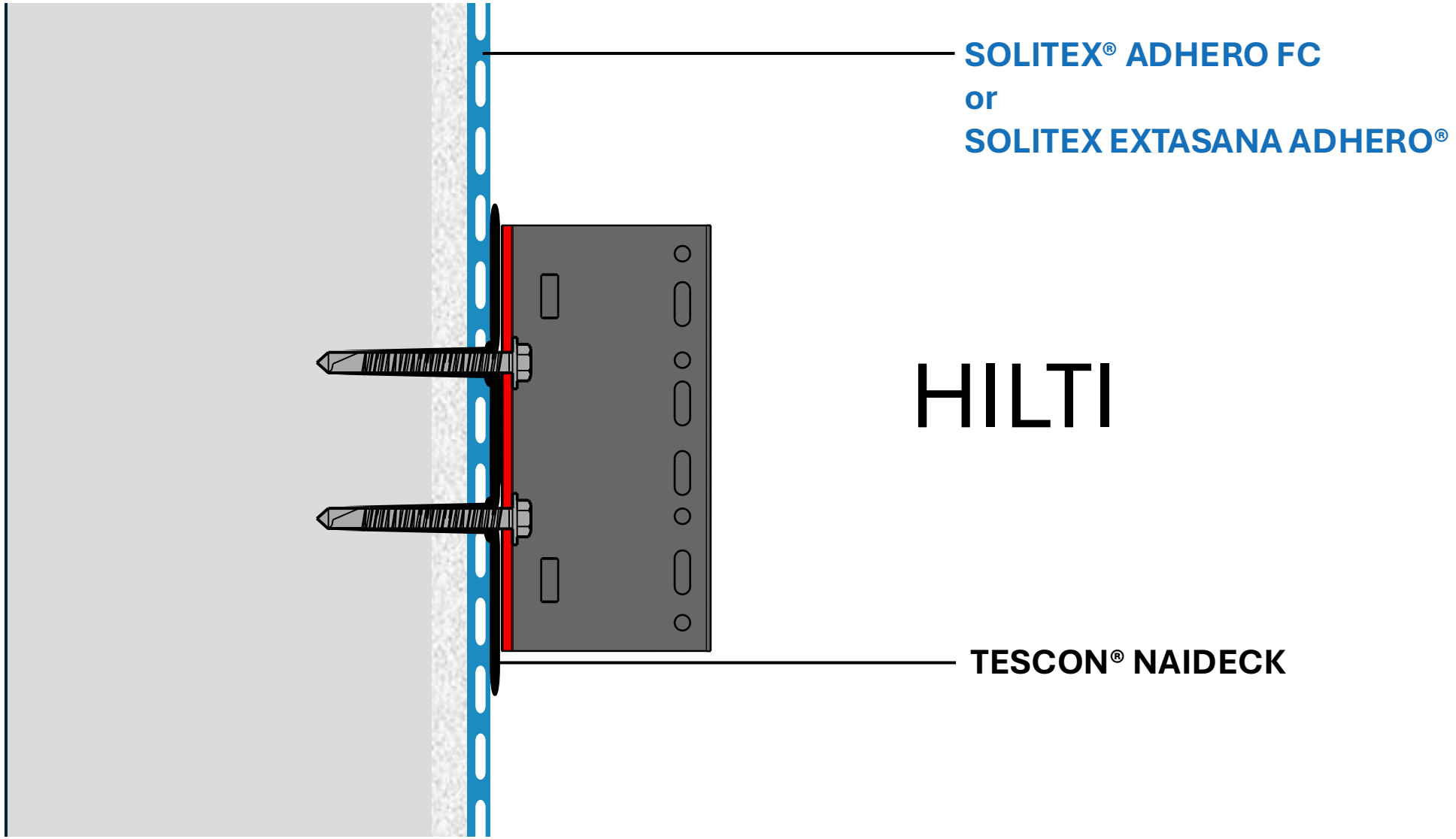


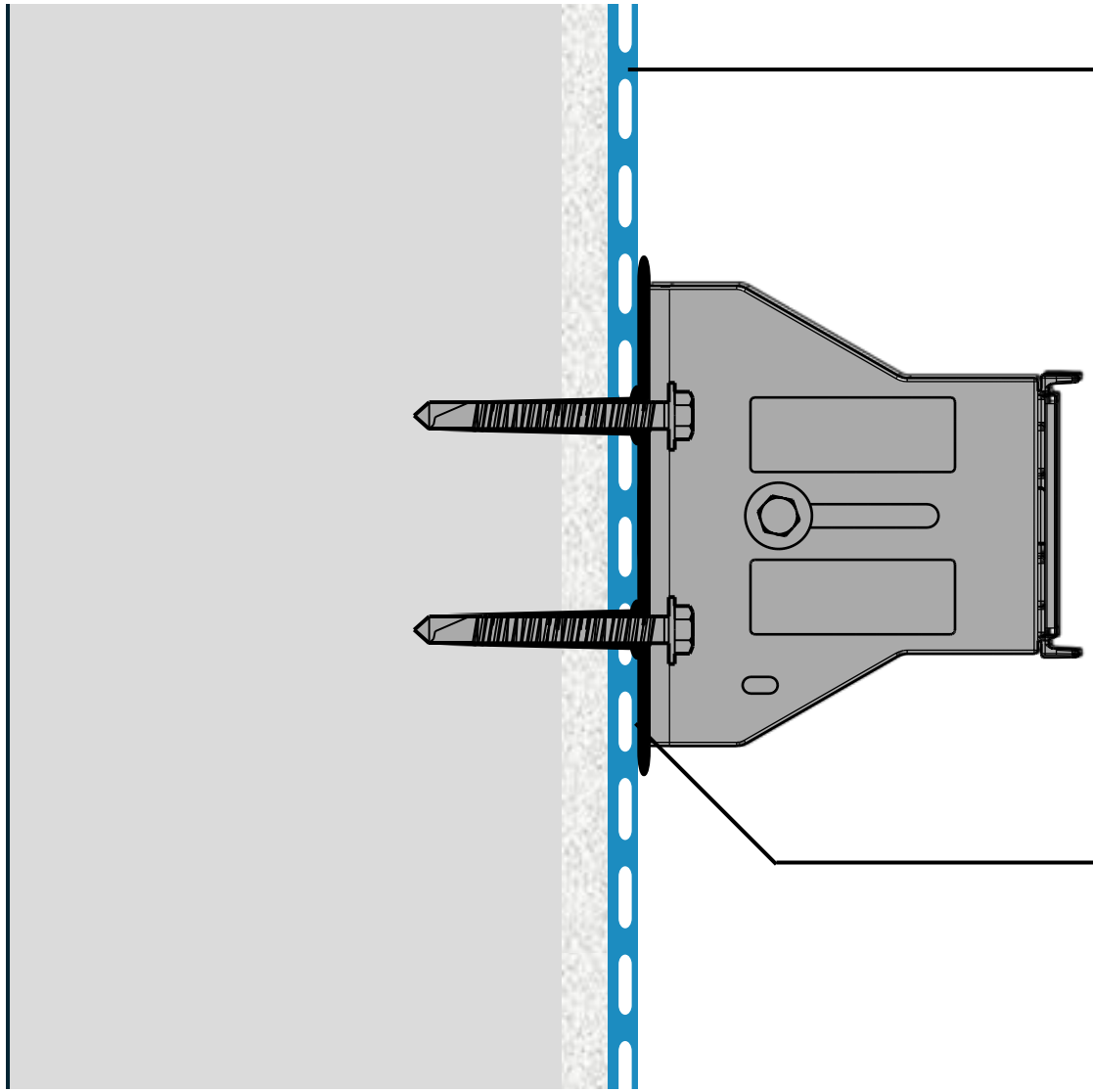
SOLITEX® ADHERO FC
or
SOLITEX EXTASANA ADHERO®

TECHNOFORM

TESCON® NAIDECK

pro clima®


SOLITEX® ADHERO FC
or
SOLITEX EXTASANA ADHERO®
HILTI
TESCON® NAIDECK

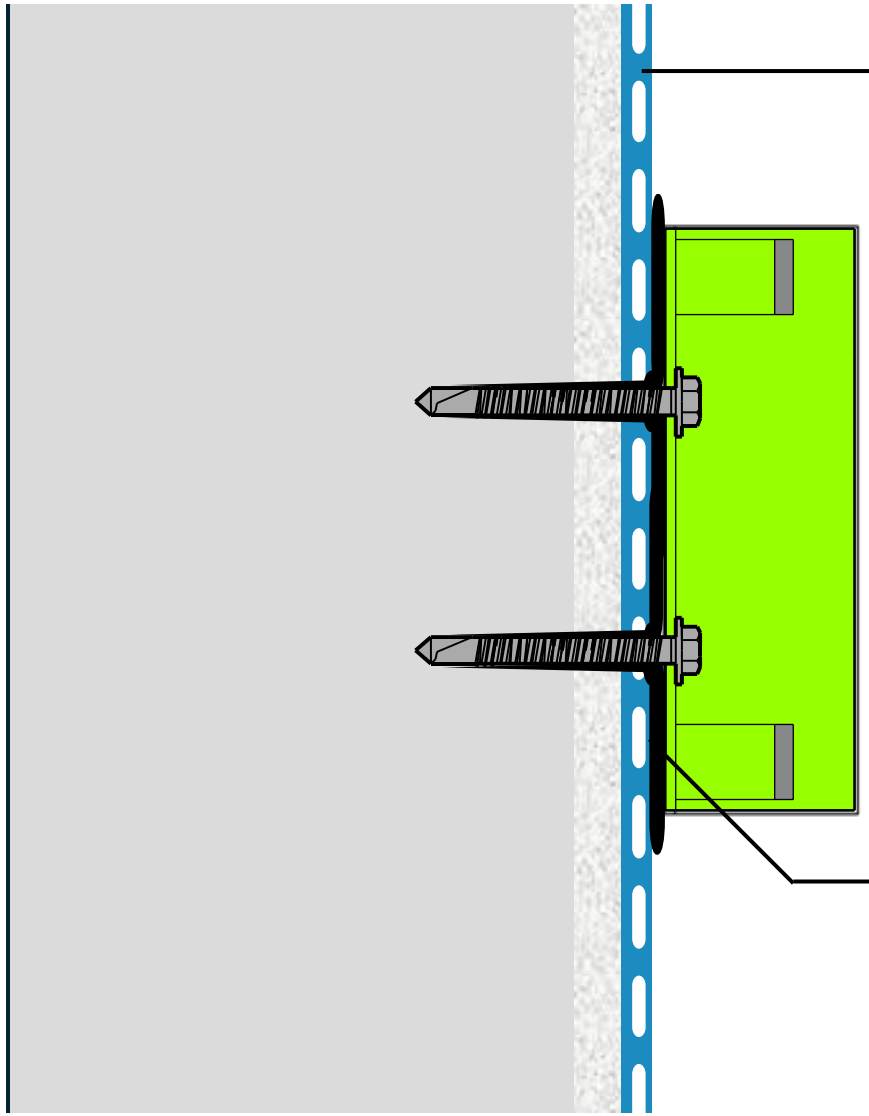


SOLITEX® ADHERO FC
or
SOLITEX EXTASANA ADHERO®

SCULPTFORM

TESCON® NAIDECK

pro clima®

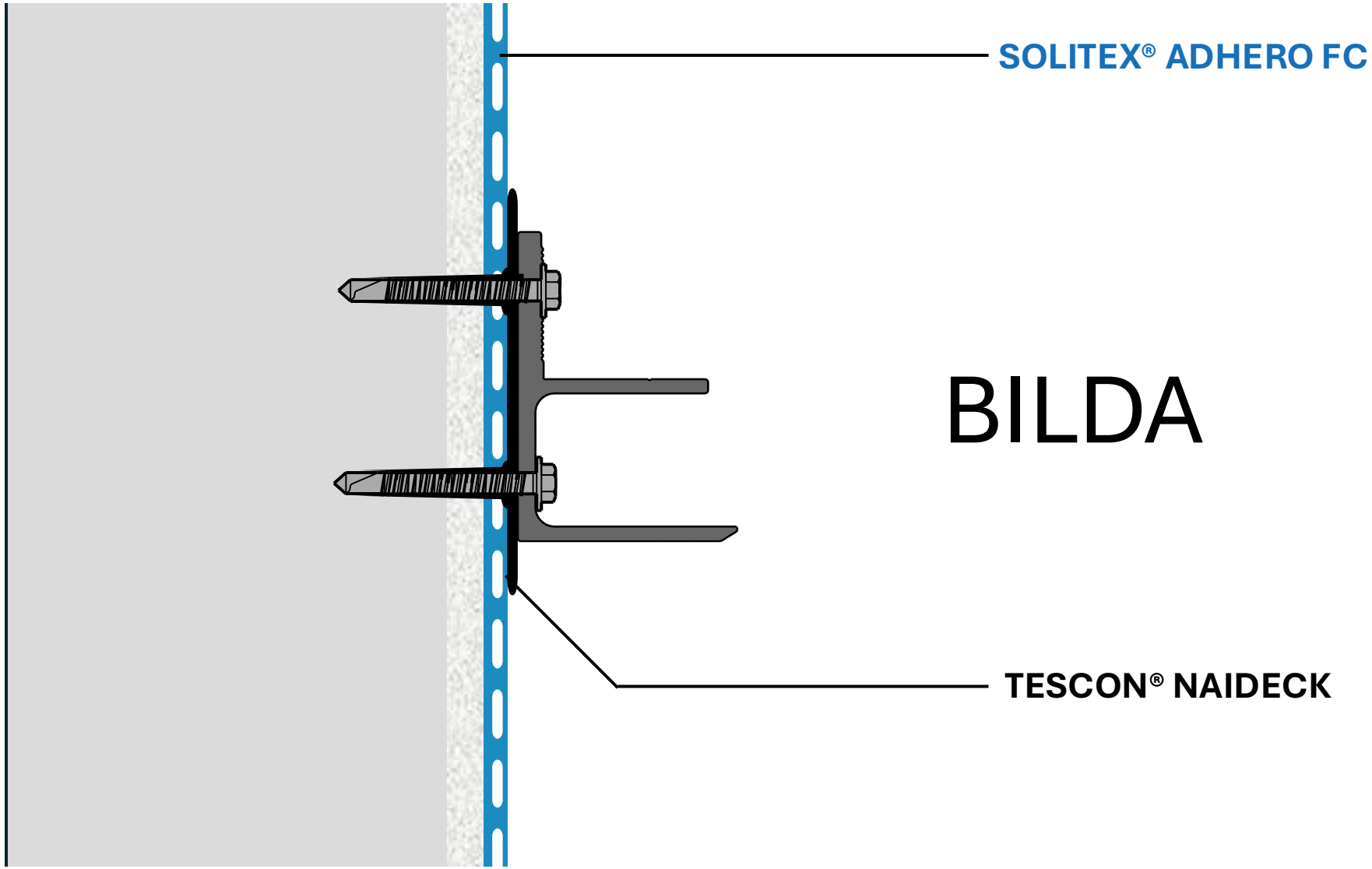


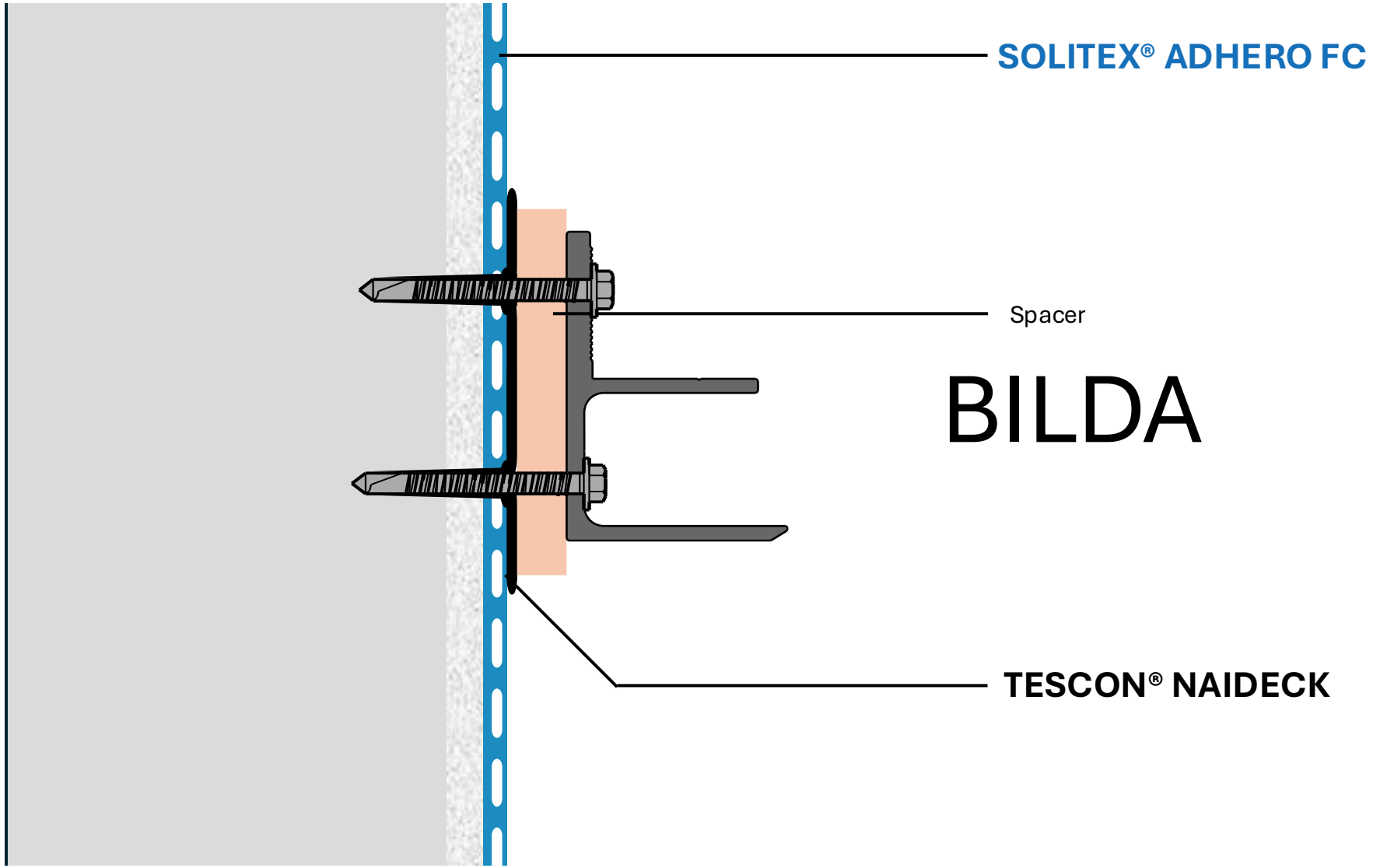
SOLITEX® ADHERO FC
or
SOLITEX EXTASANA ADHERO®

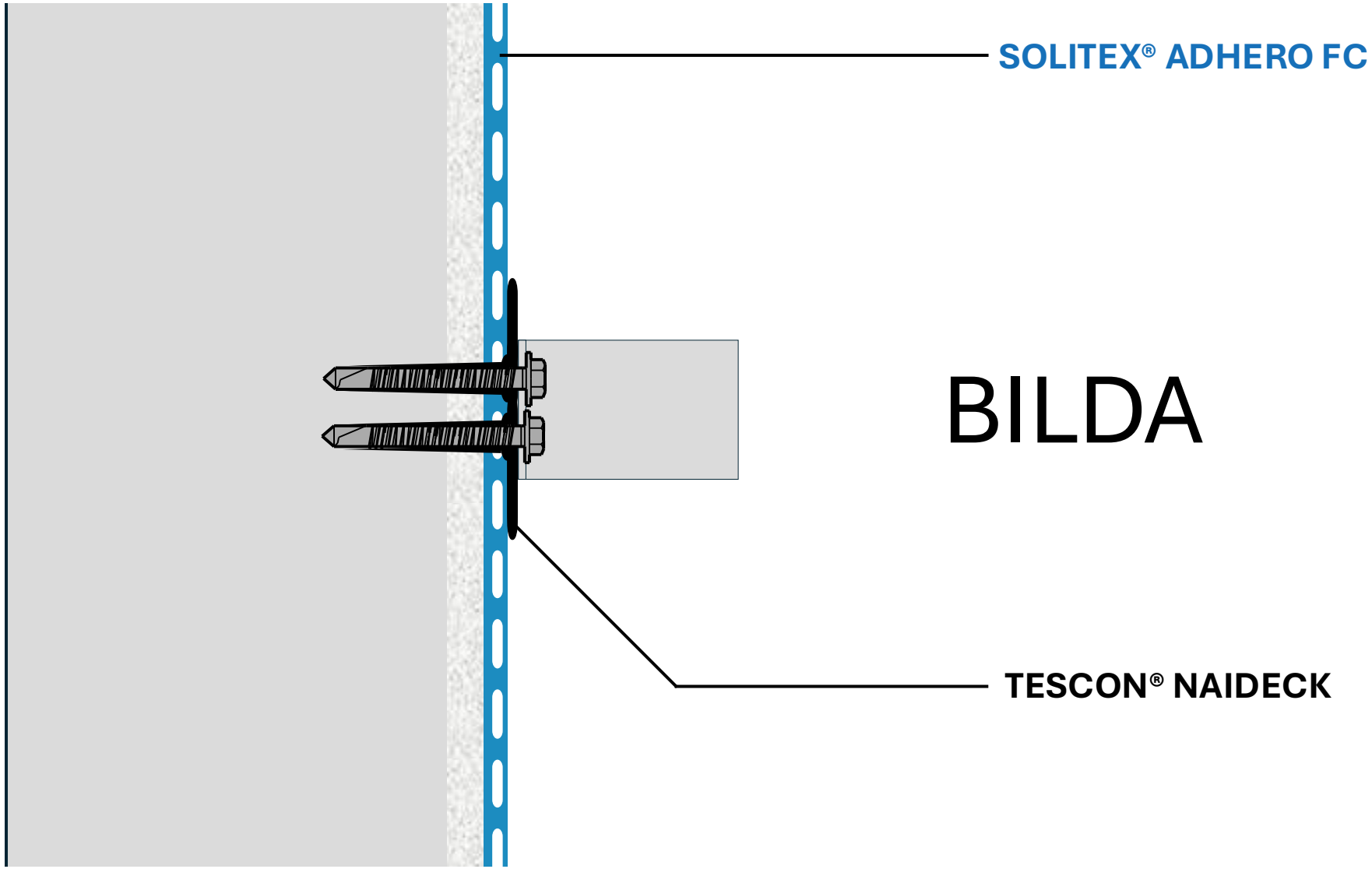
GREENGIRT

TESCON® NAIDECK

pro clima®


SOLITEX® ADHERO FC
BILDA
TESCON® NAIDECK


SOLITEX® ADHERO FC
Spacer
BILDA
TESCON® NAIDECK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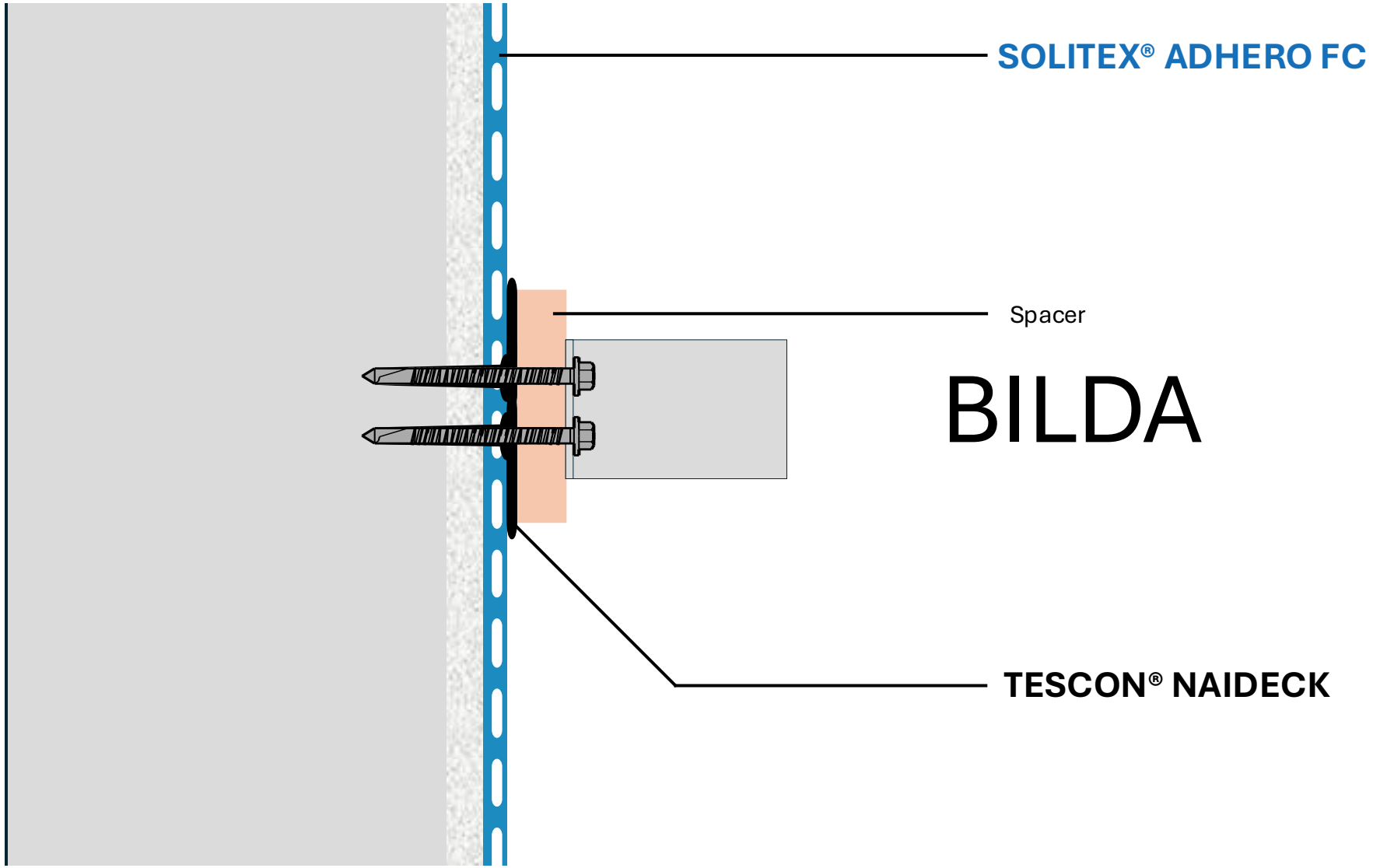
BILDA
TESCON® NAIDECK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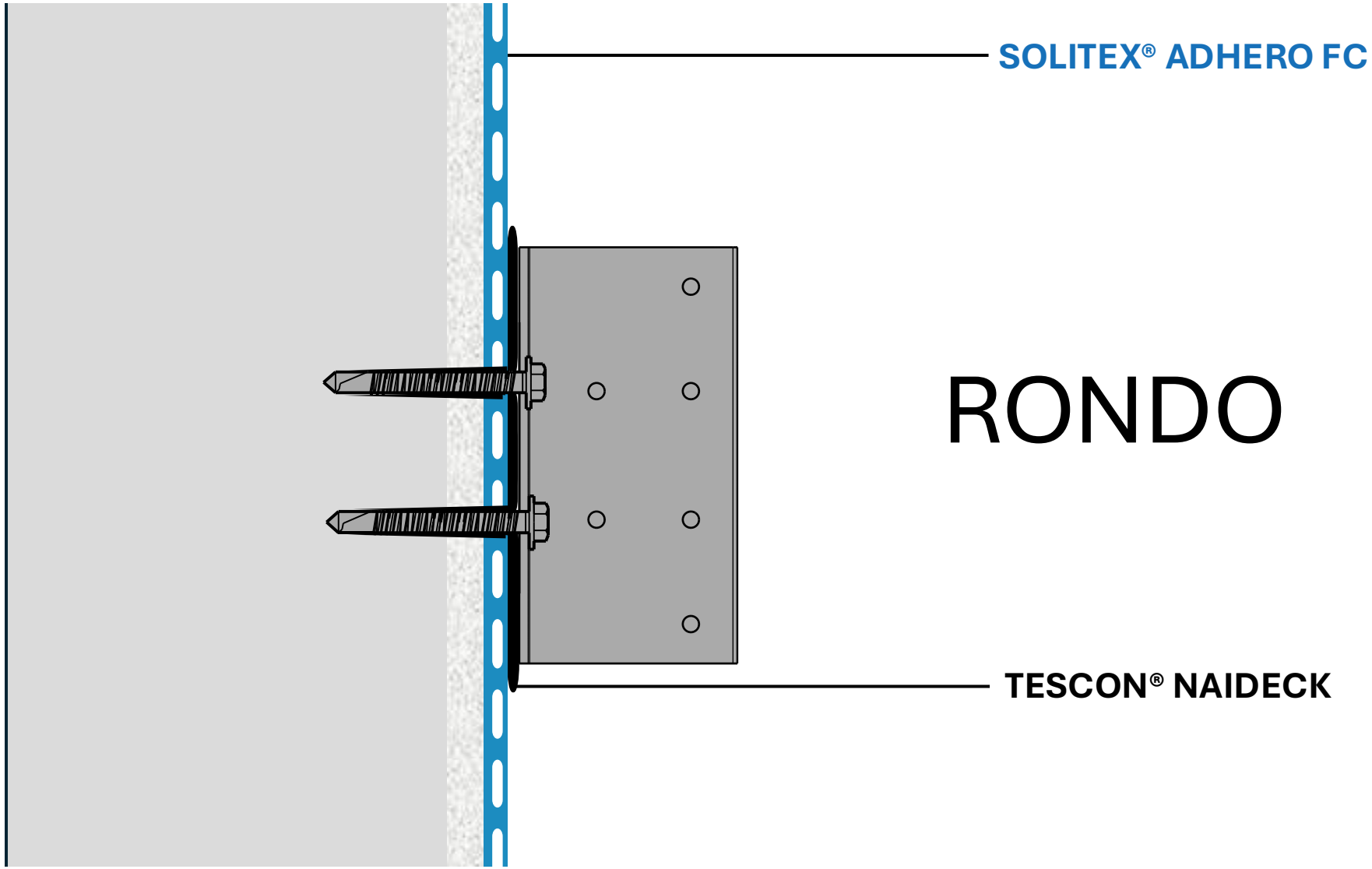
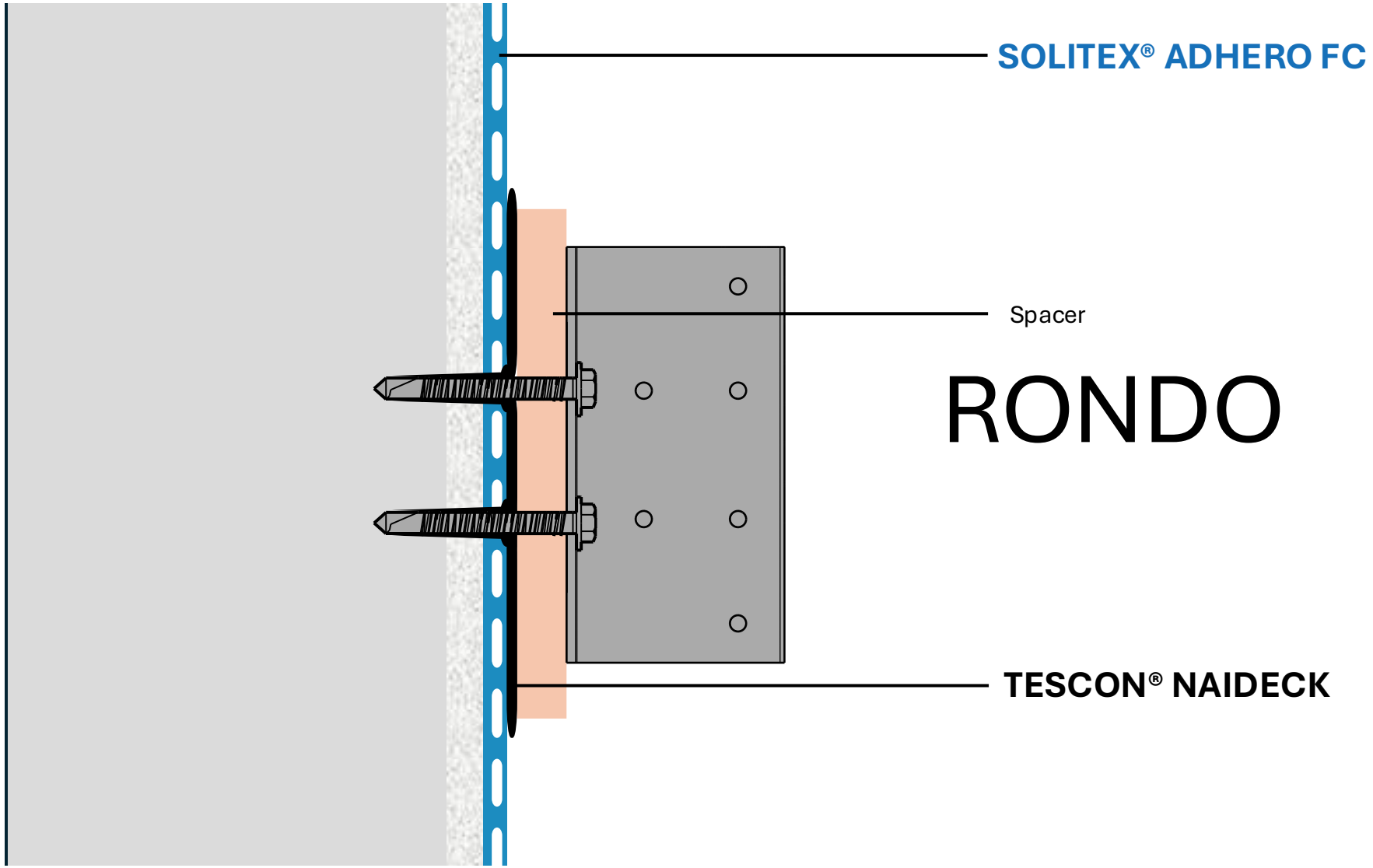

SOLITEX® ADHERO FC
RONDO
TESCON® NAIDECK


SOLITEX® ADHERO FC
Spacer
RONDO
TESCON® NAIDECK

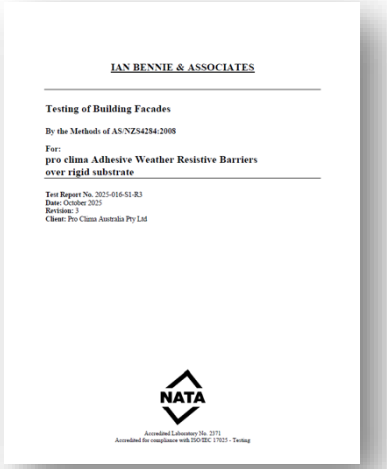
pro clima

Tested to AS/NZS 4284

WITHOUT ANY CLADDING

AS/NZS 4284

SLS
±3.5 kPa
±20mm



IAN BENNIE & ASSOCIATES

Testing of Building Facades

By the Methods of AS/NZS4284:2008

For:
pro clima Adhesive Weather Resistive Barriers over rigid substrate

Test Report No. 2025-016-S1-R3
Date: October 2025
Revision: 3
Client: Pro Clima Australia Pty Ltd

NATA

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

pro clima

Facades 7

It’s what's on the inside that counts

Details Drive the outcome

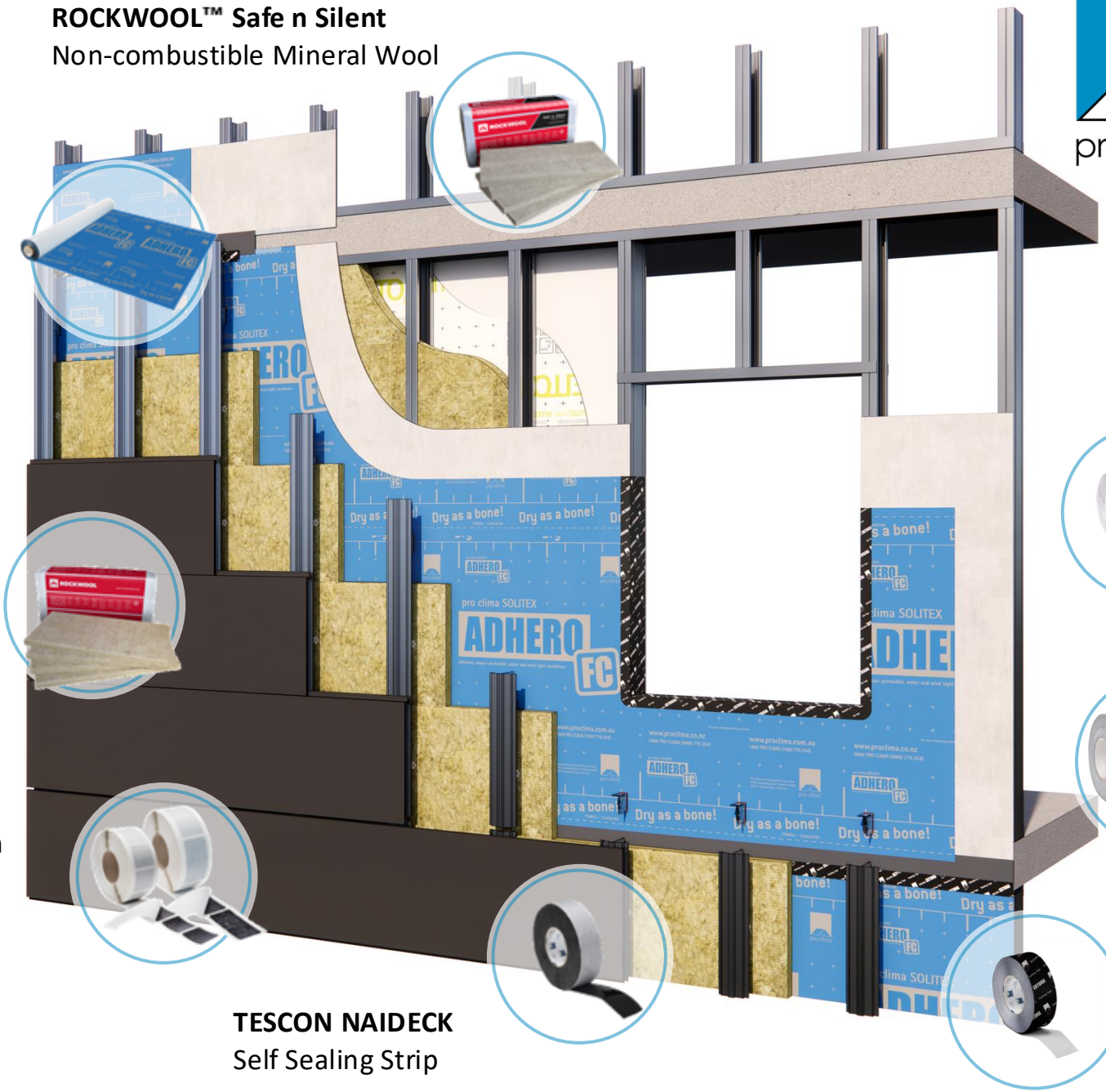
pro clima®

ROCKWOOL™ Safe n Silent
Non-combustible Mineral Wool

SOLITEX ADHERO® FC
SOLITEX EXTASANA ADHERO®
Adhesive WRB Membrane

ROCKWOOL™ Rainscreen™
Non-combustible
Hydrophobic Mineral Wool

TESCON NAIDECK Patch
Self Sealing Patches



TESCON NAIDECK
Self Sealing Strip

TESCON EXTOSEAL®
Sill Tape

TFLEX
Façade Control
Joint Material

TESCON EXTORA®
Weathertight
Sealing Tape

FORTX MELIOR

pro clima®

GOODWRAP RECYCLING®

SOLITEX ADHERO® FC
SOLITEX EXTASANA ADHERO®
Adhesive WRB Membrane

ROCKWOOL™ Rainscreen™
Non-combustible
Hydrophobic Mineral Wool

TESCON NAIDECK Patch
Self Sealing Patches

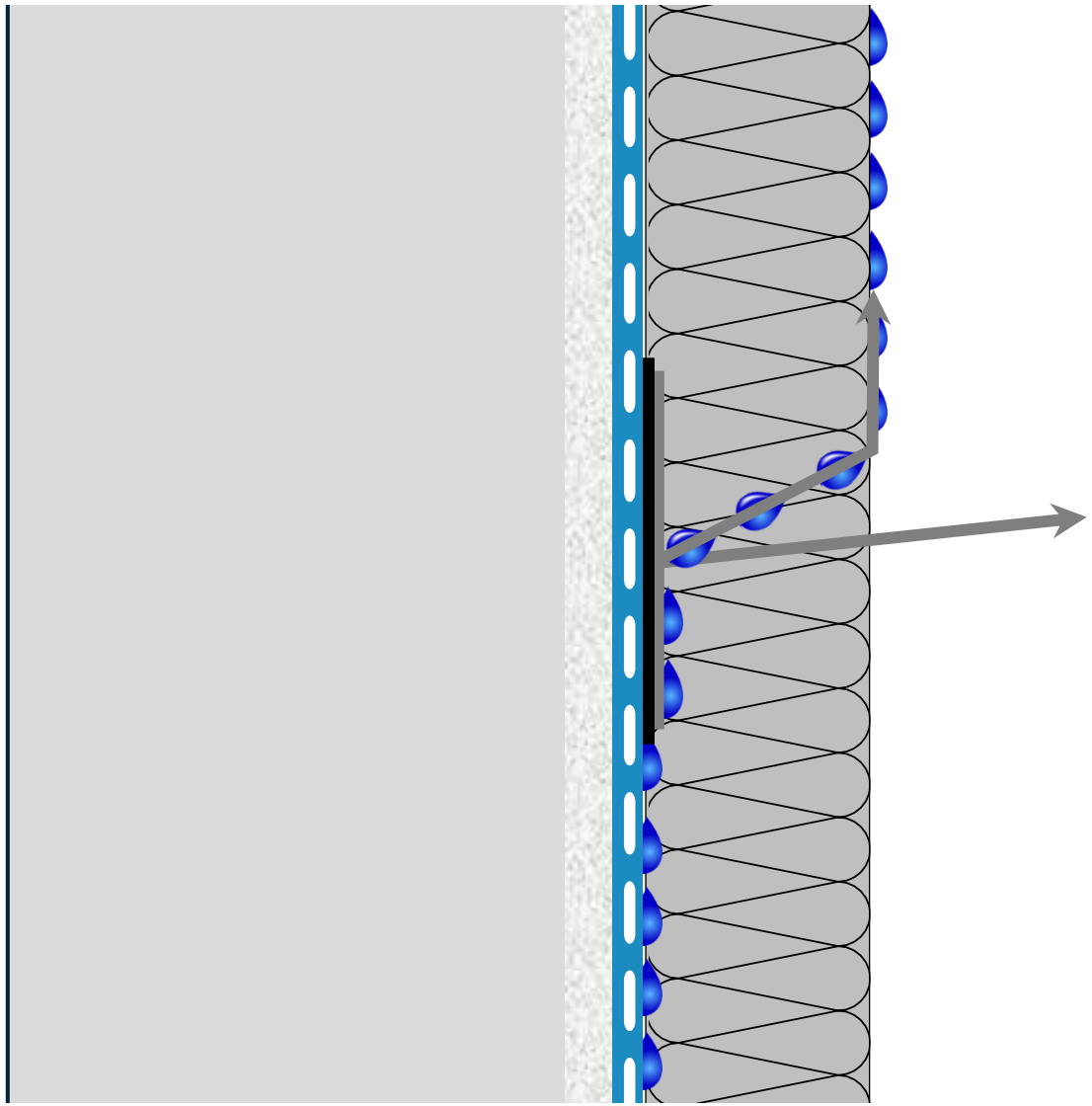
TESCON NAIDECK
Self Sealing Strip

TESCON EXTOSEAL®
Sill Tape

TFLEX
Façade Control
Joint Material

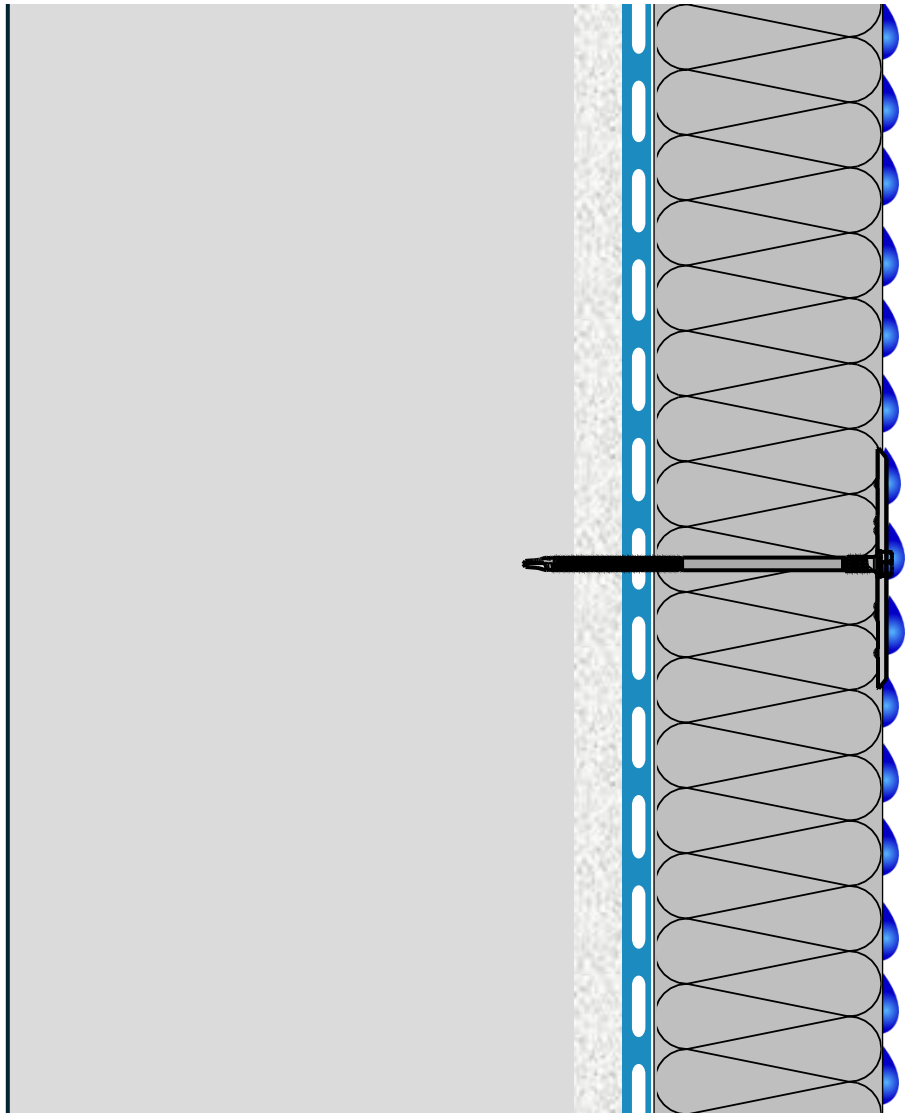
TESCON EXTORA®
Weathertight
Sealing Tape

pro clima®



pro clima®

TESCON
ETOLA
Flashing Tape
pro clima



pro clima®

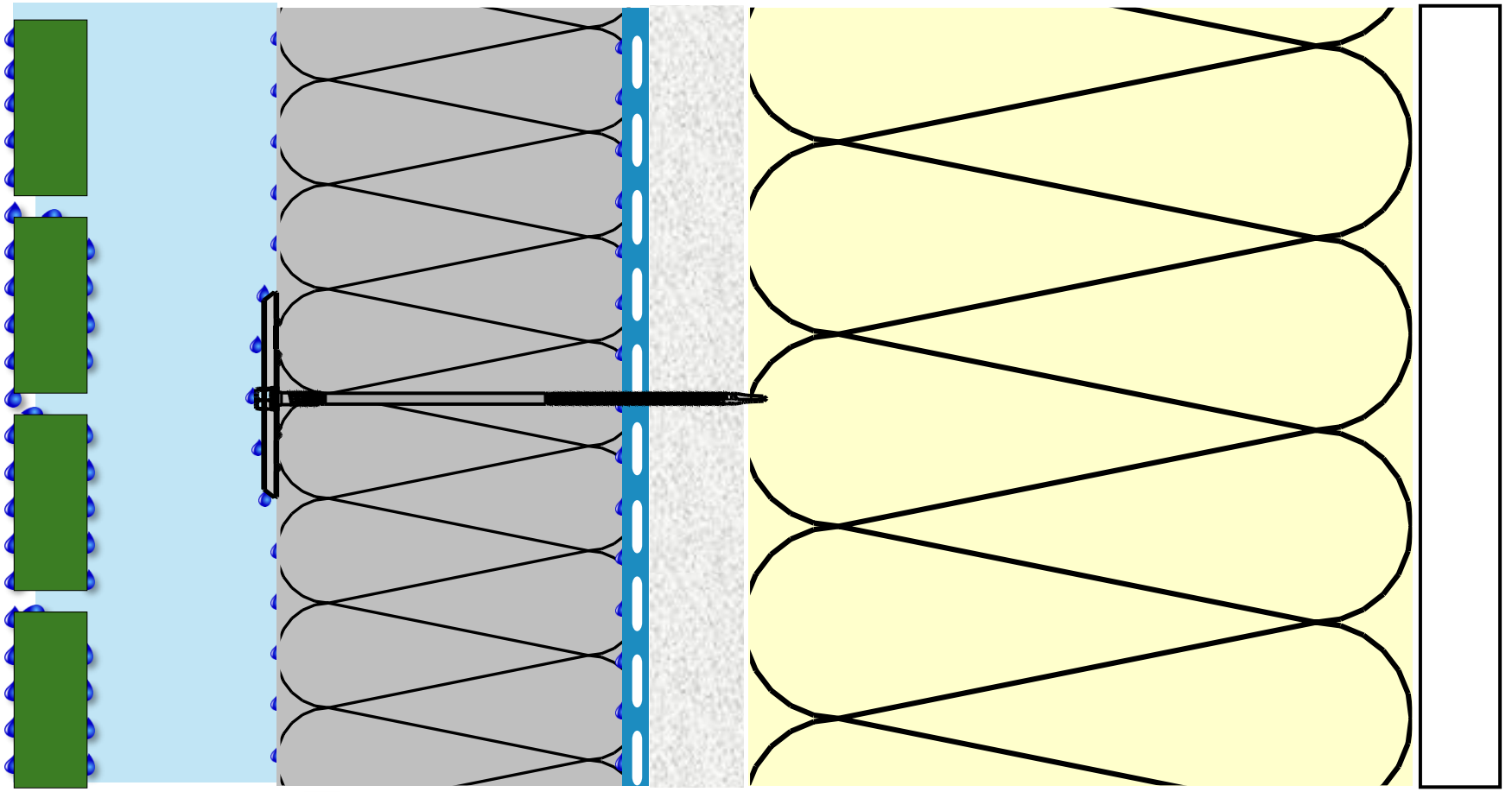

pro clima
Tested to
AS/NZS 4284
WITHOUT ANY CLADDING

Facades 8

Let it Dry

Porous materials dry quickly

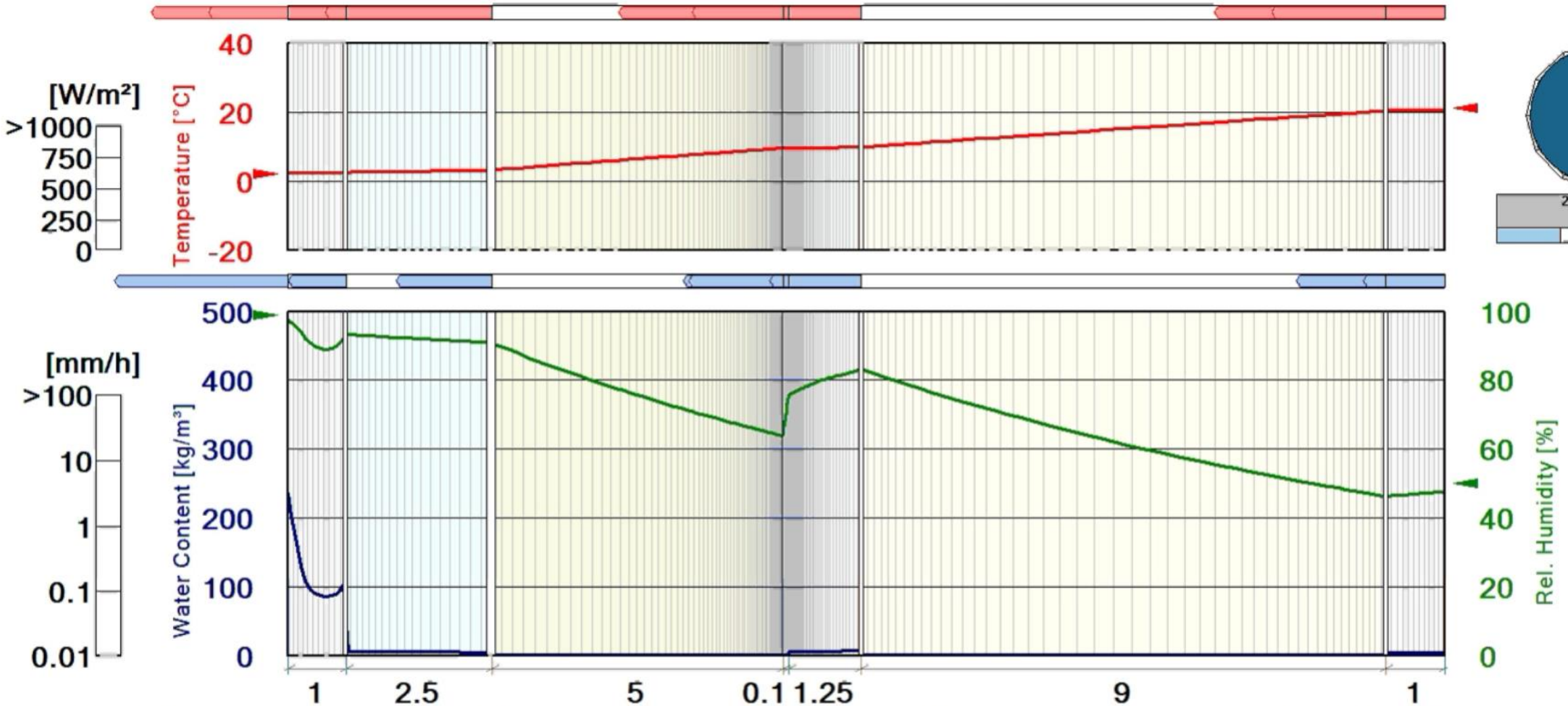
pro clima




AIRAH
DA07
CRITERIA FOR MOIS
CONTROL DESIGN
ANALYSIS IN BUILD
DESIGN APPLICATION MANUAL
STANDARD
ASHRAE
Criteria for
Moisture-Control
Design Analysis in
Buildings

pro clima®

Case 3: FORTX MELIOR - Christchurch



pro clima®

Facades 7

Certification

Verification Reports

IAN BENNIE & ASSOCIATES

Testing of Building Facades

By the Methods of AS/NZS4284:2008

For:
pro clima Adhesive Weather Resistive Barriers over rigid substrate

Test Report No. 2025-016-S1-R3
Date: October 2025
Revision: 3
Client: Pro Clima Australia Pty Ltd

VENN ENGINEERING

Weatherproofing Assessment Report

FORTX™ Façade System With
Cli
Ba

FORTX™

NZBC Report Coming Soon

IAN BENNIE & ASSOCIATES

Testing of Building Facades

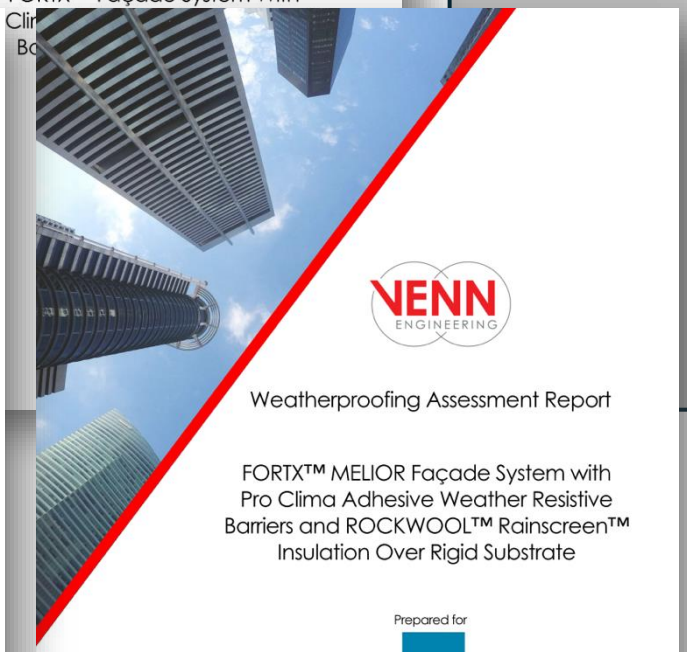
By the Methods of AS/NZS4284:2008

For:
pro clima Adhesive Weather Resistive Barriers over rigid substrate with continuous external ROCKWOOL insualtion

Test Report No. 2025-016-S2
Date: October 2025
Revision: 0
Client: Pro Clima Australia Pty Ltd

NATA

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



VENN ENGINEERING

Weatherproofing Assessment Report

FORTX™ MELIOR Façade System with Pro Clima Adhesive Weather Resistive Barriers and ROCKWOOL™ Rainscreen™ Insulation Over Rigid Substrate

Prepared for

pro clima®

ROCKWOOL

Reference: VE-PCA260122A

29 January 2026

FORTX™ MELIOR

NZBC Report Coming Soon

Building Science Summit New Zealand

Shaping the Future of Building Performance & Sustainability