



FORTX™ SYSTEMS

a new benchmark in façade performance



pro clima
Tested to
AS/NZS 4284
WITHOUT ANY CLADDING

High-performance façades for multi-storey buildings



FORTX™ & FORTX™ MELIOR

pro clima's new tested façade systems



Removes the need for additional verification or testing



Ultimate weathertightness and long-term durability



Delivers advanced condensation management



Maximises drying capacity within the wall system

Design Without Limits



The new pro clima FORTX™ and FORTX™ MELIOR façade systems provide architects and specifiers with complete freedom to design aesthetically pleasing, high-performance façades. They deliver exceptional weathertightness, effective vapour control, and long-term durability. Compatible with all cladding types and racking systems, both systems leverage pro clima's proven Weather Resistive Barriers (WRBs), tapes, and accessories to deliver continuous protection against moisture and weather exposure, with two ADHERO® WRB options available: SOLITEX EXTASANA ADHERO® and SOLITEX® ADHERO FC.

FORTX™ and FORTX™ MELIOR systems are tested with pro clima's market leading ADHERO® WRBs and can be used over any rigid board with optional continuous exterior insulation. These systems work perfectly with applications ranging from low-rise buildings to mid- and high-rise constructions across all building classes.

Tested to AS/NZS 4284 and backed by a third-party engineering report, pro clima's systems represent a significant advancement in façade performance, combining best practice in weathertightness, systemised detailing, and integrated thermal and moisture management solutions. By eliminating localised wind-induced stress points, it guarantees long-term envelope durability, protecting your building against harsh weather conditions for decades. For buildings in seismic regions or buildings of critical nature, the system offers the possibility of using TFLEX flexible control joint material which is vapour permeable and fire retardant.

At the heart of this system is our commitment to ensuring every building in New Zealand and Australia is healthy, durable, and energy efficient. By combining innovative solutions with a focus on long-term performance, we're not just protecting the structure, we're creating healthier, more sustainable environments for future generations.

AS/NZS 4284 results achieved without any cladding:

- ✓ Serviceability Limit State (SLS): ± 3.5 kPa
- ✓ Ultimate Limit State (ULS): ± 5.5 kPa
- ✓ Seismic Deflection Performance: ± 20 mm (SLS) and ± 75 mm (ULS)
- ✓ Air Leakage: $< 0.1 \text{ L/s/m}^2$

These systems comply with NZ Building Code Clause E2 External Moisture requirements, delivering exceptional weather resistance in high wind-pressure and seismic regions, regardless of cladding type, and have been independently reviewed for weatherproofing assessment and NZBC compliance.



Visit our website for
more details and downloads

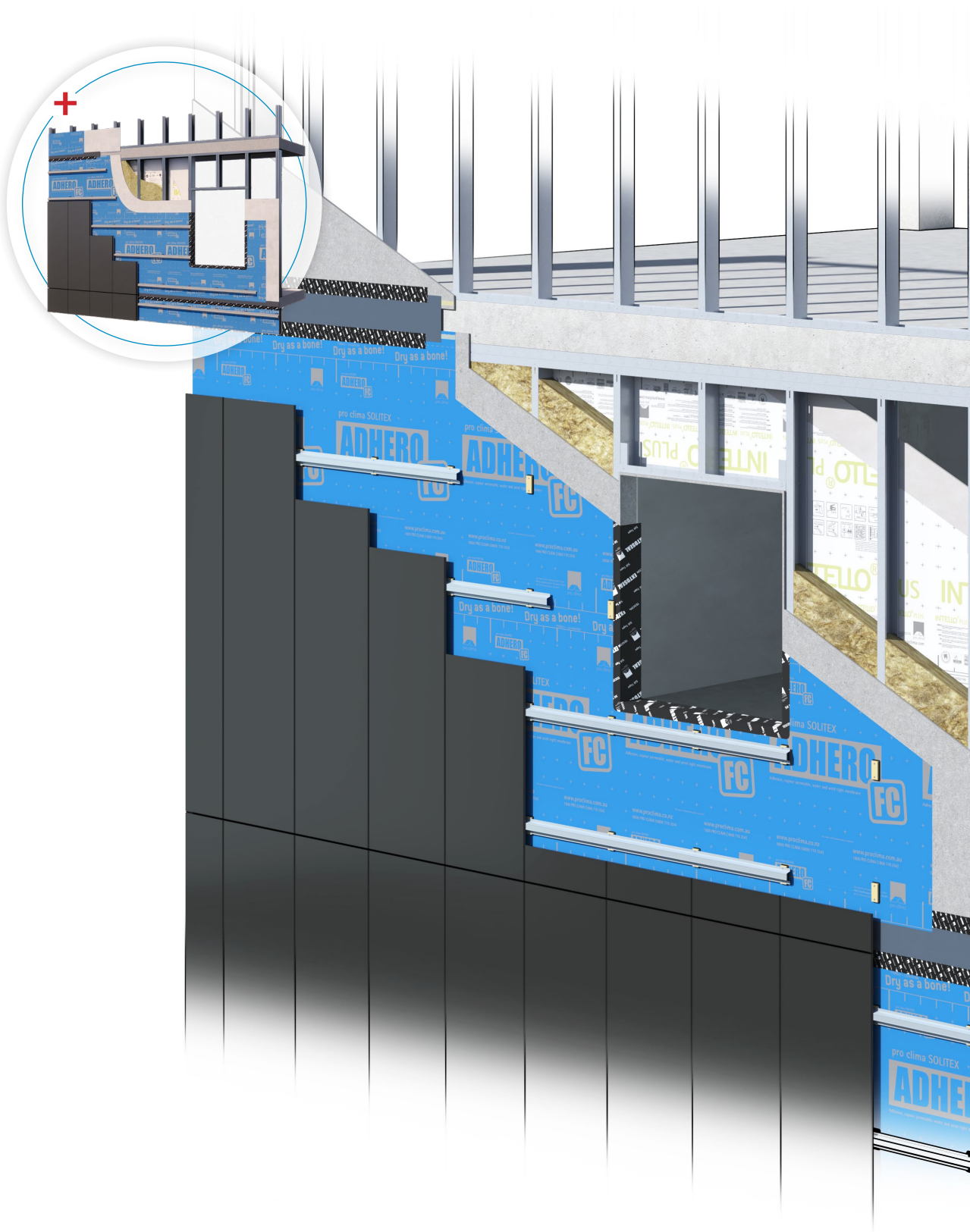
proclima.co.nz/fortx
proclima.com.au/fortx



Developed in collaboration with:



FORTX™
P. 7 & 8



FORTX™ System Advantages:

- ✓ Ultimate weatherproofing: pro clima's ADHERO® WRBs resist wind-driven rain and pressure-induced water ingress
- ✓ High wind stability: Provides a flat, fully supported and adhered WRB, ensuring consistent performance and long-term durability
- ✓ Accommodates building movement: TFLEX flexible control joint material suitable for seismic movement joints and interstorey transitions
- ✓ Enhanced condensation control: Available with both Class 3 and Class 4 vapour-permeable Weather Resistive Barriers and INTELLO® PLUS



FORTX™ MELIOR
P. 11 & 12

FORTX™ MELIOR System Advantages:

- ✓ Free from corrosion, condensation and mould: Rigid boards stay dry, effectively controlling interstitial moisture accumulation
- ✓ Enhanced energy efficiency: Minimises thermal bridging, improving overall thermal performance and comfort
- ✓ Increased fire safety: Enhances fire protection when paired with ROCKWOOL™ Rainscreen™ non-combustible stone wool insulation in the cavity
- ✓ Improved acoustic performance: High density ROCKWOOL™ Rainscreen™ fibrous insulation dampens external noise, improving internal comfort
- ✓ Plus all FORTX™ system advantages

Raising the Bar with Higher-Performance Façades

Since the introduction of energy efficiency regulations, the industry has widely adopted a common solution for lightweight construction. This comprises fibrous insulation placed between wall framing members, with a flexible wall underlay applied to the exterior of the structure. While effective in many scenarios, these traditional systems present exciting opportunities for further innovation for residential architecture, and in more demanding conditions like mid- and high-rise buildings.

The challenges of higher wind pressures in these applications highlight the potential for solutions that go beyond the basics to deliver superior performance in weatherproofing, energy efficiency, and condensation management. Traditional flexible membranes work well for low-rise buildings, but adhesive WRB systems over rigid substrates can handle stronger winds by limiting flex and removing stress from overlaps, penetrations, and connections. This solution prevents water leaks, protects structural integrity, and maintains the building's usability.

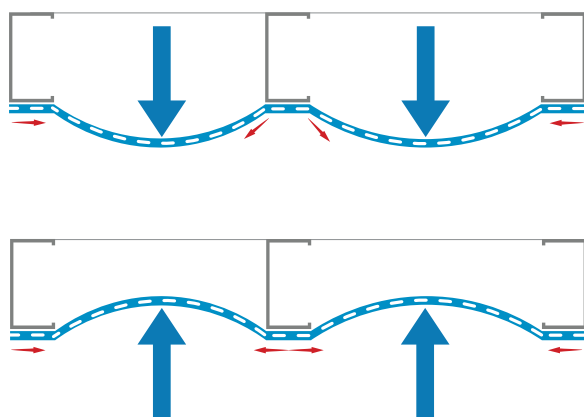
For low and high wind environments, repositioning insulation to the exterior of the structure is one way to address issues such as thermal bridging. When adopted, external insulation can enhance energy efficiency and help reduce the risk of condensation and mould. By tackling these challenges head-on, pro clima's new façade system improves the health, durability, and resilience of buildings, setting a new standard for commercial façades in New Zealand and Australia.



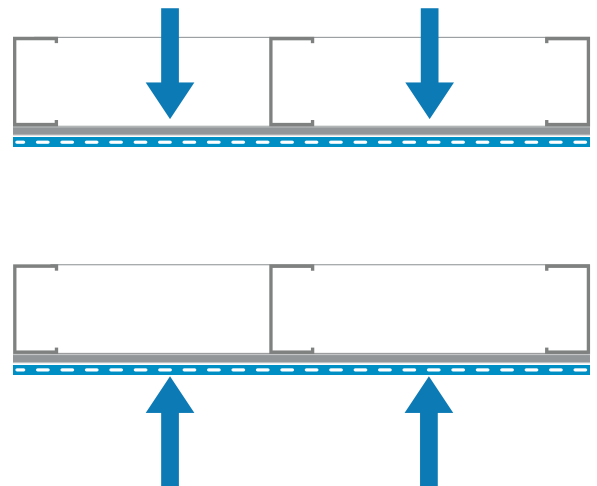
Maximising Performance with Adhesive WRBs

Flexible WRBs are widely used and provide a practical solution for many applications. However, in mid- and high-rise buildings, where wind pressures are higher and repair costs significant, traditional WRBs can loosen between fixing points under dynamic wind conditions. This loosening can lead to ballooning, flexing, and material fatigue over the building's life, creating uncertainties for designers, specifiers, contractors, developers, and homeowners.

Where we are now



Where we need to be



pro clima's adhesive WRBs over any rigid board deliver:

- ✓ A quality boundary between interior spaces and the outside world
- ✓ Reliable sealing for optimal façade performance
- ✓ Strong resistance to wind pressure and water ingress
- ✓ Maximum drying capacity for health and durability

Long-Term Peace of Mind

pro clima's ADHERO® WRBs offer an exceptional solution for building envelopes, enhancing both performance and durability. By seamlessly bonding to the surface, they create a continuous watertight layer that protects the structure from the elements, while improving airtightness and energy efficiency.

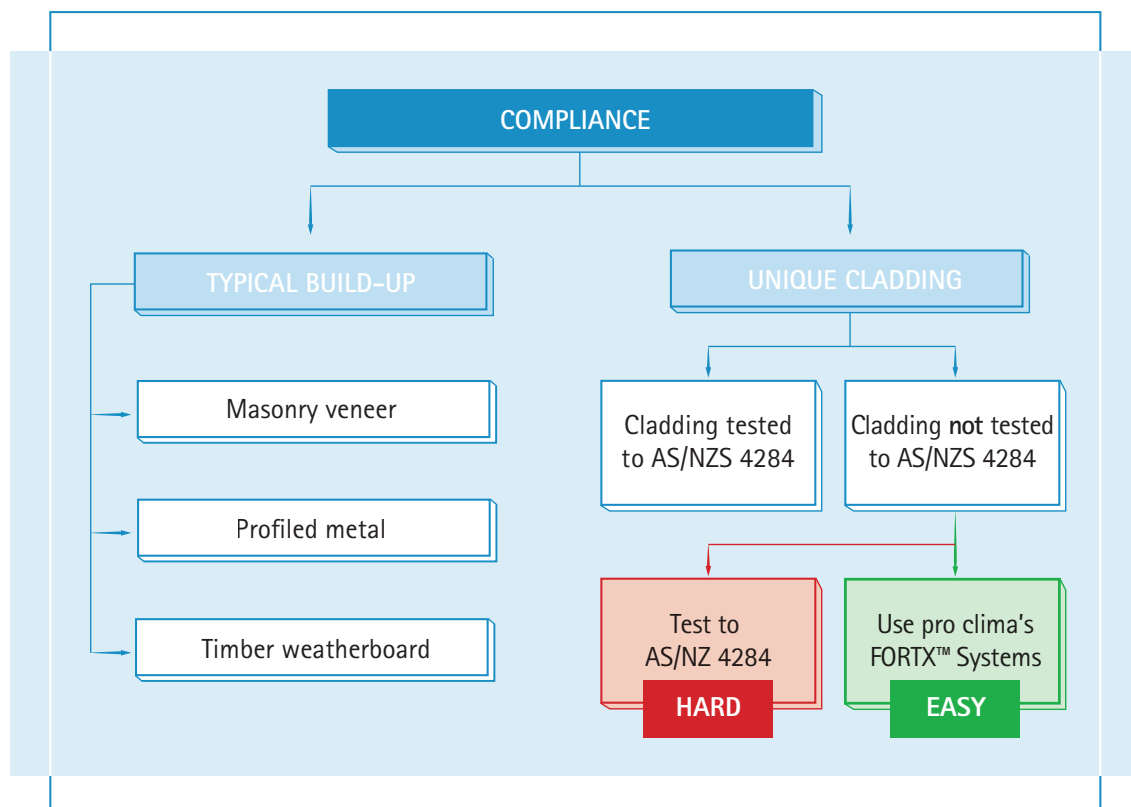
This reliable system enhances the building's resilience by maximizing drying capacity. Its highly vapour-permeable elements allow water vapour to escape freely. Additionally, pro clima components are future proof, with high temperature resistance exceeding 100°C and rated for 180 days UV exposure prior to cladding.

This innovation not only addresses traditional challenges but also sets a new benchmark for envelope integrity and resilience, offering peace of mind for all stakeholders.

Building Code Compliance Made Easy

Engineers can approve any cladding type when paired with pro clima's new façade system. Performance is backed by a third-party endorsed engineering judgement report and a NATA-accredited lab test report, eliminating the need for complex or costly verification methods.

This also offers architects full freedom to design an aesthetically pleasing, weathertight façade.



FORTX™

pro clima's new tested façade system – a stand-alone solution for weather protection

The pro clima FORTX™ system is a weathertight façade solution suitable for use with any cladding type in any climate. It comprises SOLITEX® ADHERO FC or SOLITEX EXTASANA ADHERO® adhesive WRBs applied over any rigid substrate, combined with all relevant accessories to form a complete solution.

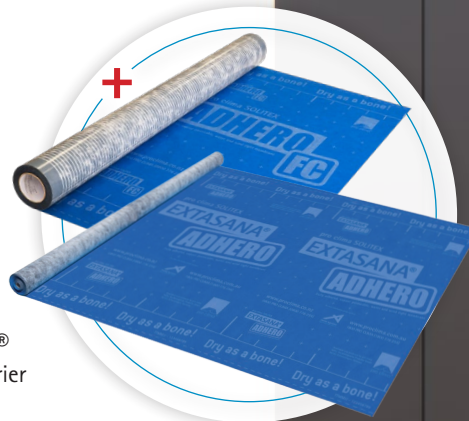
When combined with INTELLO® PLUS, the system provides the ultimate solution for airtightness, vapour control and healthy buildings.

TESCON EXTORA® Flashing Tape



SOLITEX® ADHERO FC Permavap® Adhesive Class 4 Vapour-Permeable WRB

*Alternatively Use
SOLITEX EXTASANA ADHERO®
Self-Adhesive Weather Resistive Barrier



TFLEX TPU Flexible Control Joint Strip



FORTX™ System Core Components:



DUPLEX
Double-Sided Tape



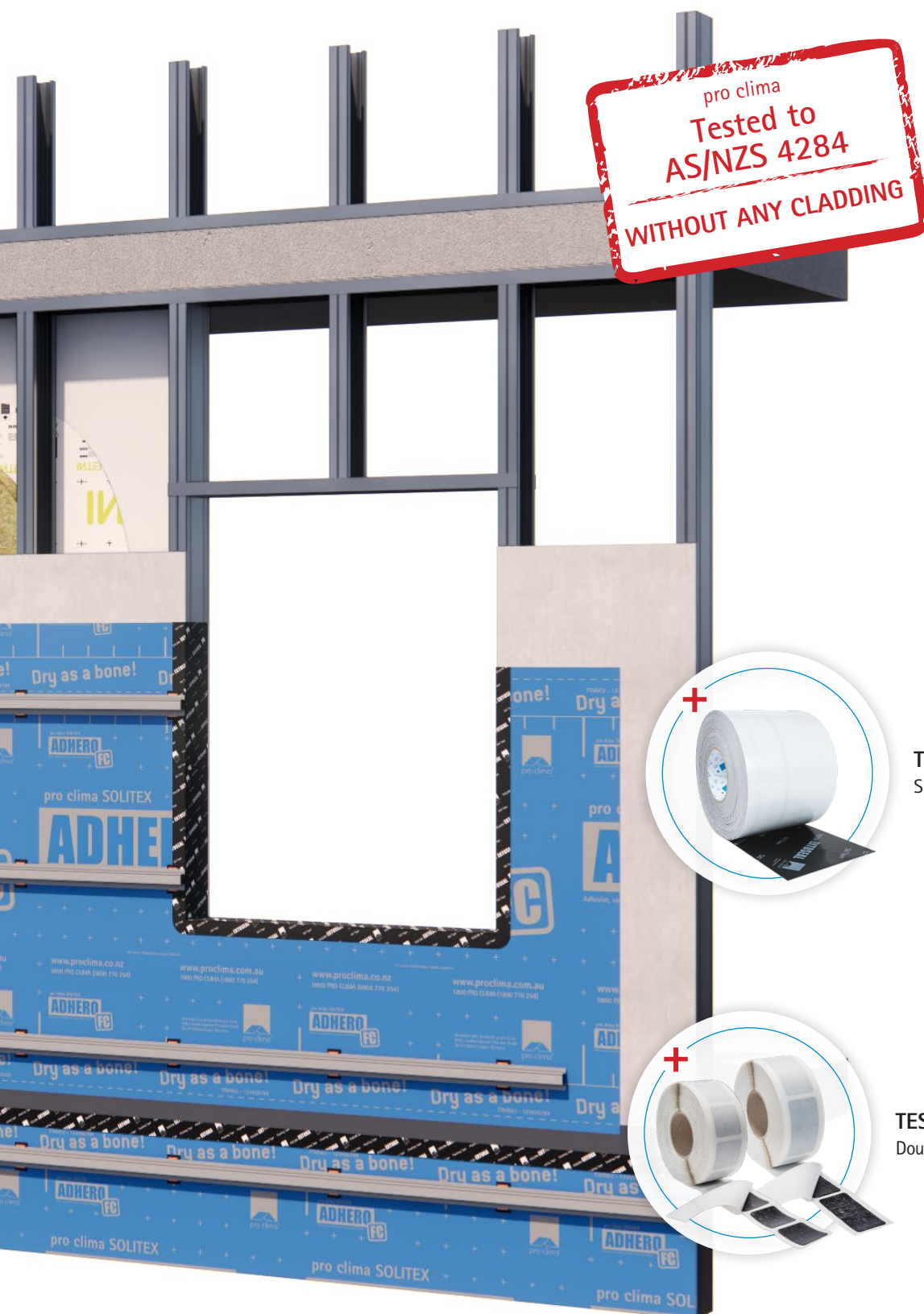
TESCON® PRIMER RP
Solvent-Free Primer



PRESSFIX
Malleable Plastic Tool



PRESSFIX XL
Large Malleable Plastic Tool



TESCON EXTOSSEAL®
Sill Tape



TESCON® NAIDECK Patch
Double-Sided Self-Sealing Patches

Alternative Products:



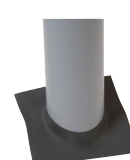
SOLITEX EXTASANA ADHERO®
Adhesive Class 3 WRB



TESCON® NAIDECK
Self-Sealing Strip



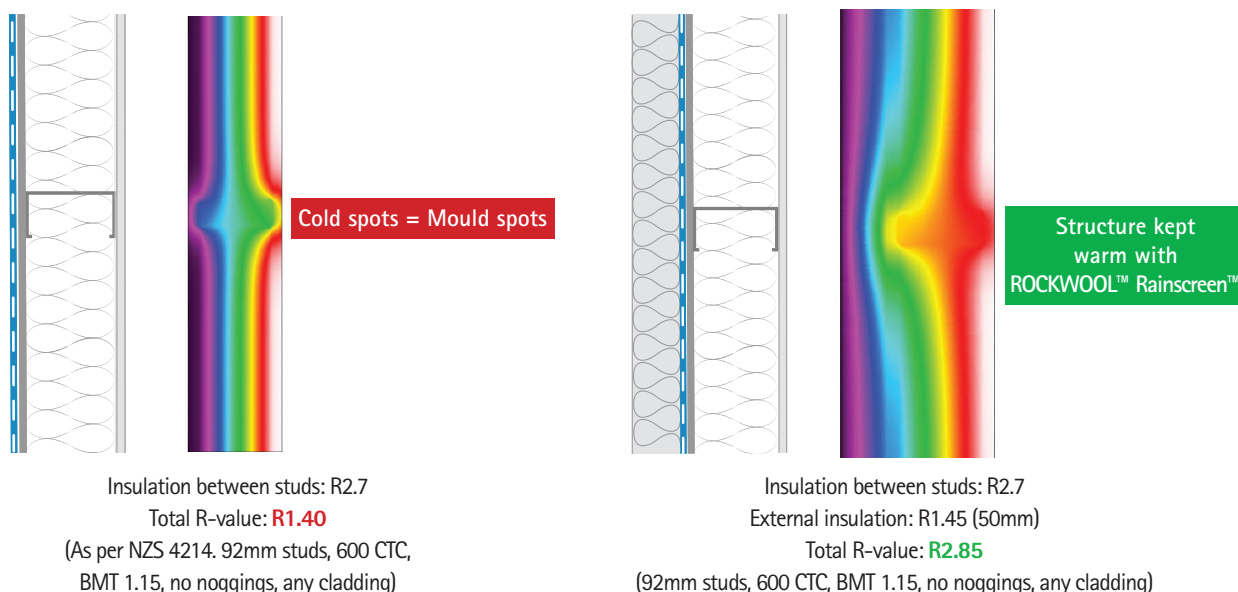
INTELLO® PLUS
Intelligent Air Barrier



ROFLEX
Pipe Penetration Sealing

Boost Energy Efficiency and Mitigate Thermal Bridging

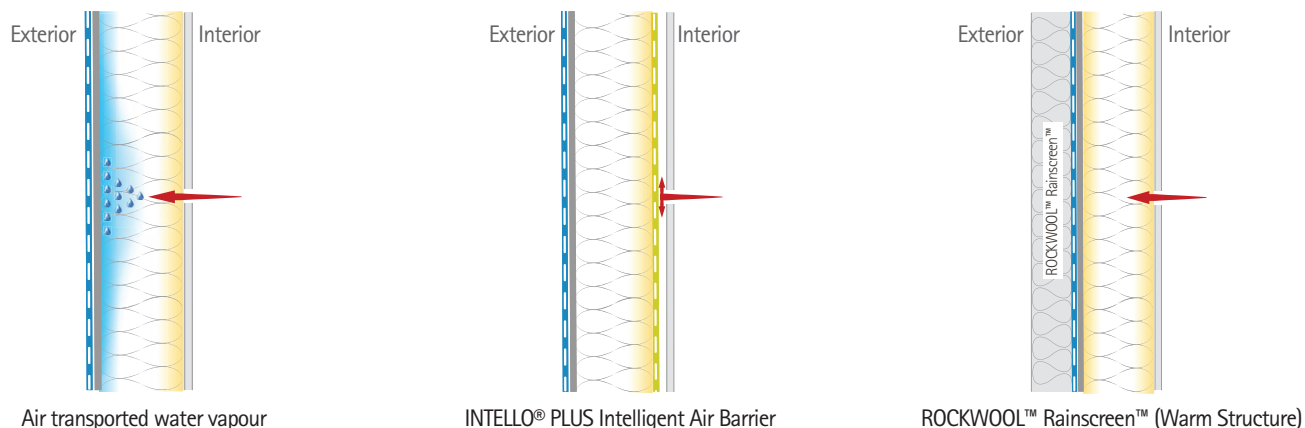
Adding insulation to the outside of the building structure increases overall thermal resistance and reduces heat loss through thermal bridging. This approach significantly improves the building's thermal performance, making it easier to meet energy efficiency standards compared to traditional insulated stud frames.



Manage Airtightness and Condensation Effectively

The NCC and NZBC require control layers on the outside of the structure to be vapour permeable. pro clima offers two options of adhesive WRBs: SOLITEX EXTASANA ADHERO® and SOLITEX® ADHERO FC. Both membranes offer differing vapour permeance properties, allowing suitable solutions for any climate or construction type. These solutions ensure long-term control of interstitial moisture and help designers confidently meet the deemed-to-satisfy provisions of Part F8D3 Condensation management and E2/AS1.

Condensation risk may be elevated by air movement transporting water vapour to the back of the external weatherproofing layer. Enhanced condensation control can be achieved using FORTX™ combined with INTELLO® PLUS Intelligent Air Barrier (IAB) on the inside of the structure to restrict air and water vapour migration. Alternatively, FORTX™ MELIOR creates a warm structure with a continuous layer of ROCKWOOL™ Rainscreen™ to prevent condensation risk.



The risk of moisture related damage is dependent on the climate, indoor conditions, external colour and the presence or absence of cavities and indoor ventilation. To assess the risks of mould and condensation, a hygrothermal simulation should be performed by a trained WUFI® Professional: www.wufi.co.nz/wufi-professionals or www.wufi.com.au/wufi-professionals.



Designed for Long-Term Façade Durability

The FORTX™ MELIOR system includes ROCKWOOL™ Rainscreen™, a stone wool insulation developed specifically for use within ventilated cladding systems. ROCKWOOL™ Rainscreen™ is non-combustible, produces no toxic smoke, and does not promote flame spread, even when directly exposed to fire. It also supports energy efficiency without sacrificing vapour permeability and drying capacity, while maintaining reliable thermal performance and hydrophobic, moisture-repellent properties.

Improved performance with ROCKWOOL™ Rainscreen™:

- ✓ **Thermal Performance:** Complies with AS/NZS 4859.1:2018 and contributes to meeting H1 requirements for heating and cooling energy demand and internal temperatures.
- ✓ **Fire Hazard Properties:** Tested to AS 1530.3 and compliant with required Spread of Flame and Smoke Developed indices.
- ✓ **Non-Combustibility:** Satisfies AS 1530.1 non-combustibility criteria.
- ✓ **Health & Safety:** Meets NZBC Clause F2 criteria F2.3.1.
- ✓ **Acoustic Performance:** High-density stone wool structure provides excellent sound absorption, improving indoor acoustic comfort.
- ✓ **Water resistance:** ROCKWOOL™ stone wool insulation repels liquid water due to its fibre orientation and the presence of water-repellent additives.

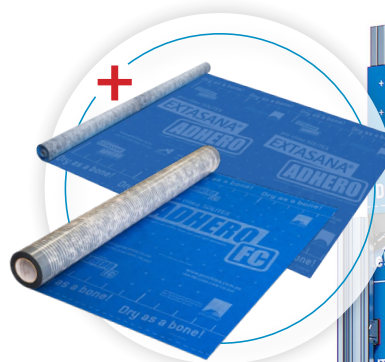
Visit <https://www.rockwool.com/anz/products/categories/ventilated-facade/> for more information and downloads.

SOLITEX EXTASANA ADHERO®

Self-Adhesive Weather Resistive
Barrier

*Alternatively Use

SOLITEX® ADHERO FC
Self-Adhesive Weather Resistive
Barrier



ROCKWOOL™ RAINSCREEN™

External Insulation



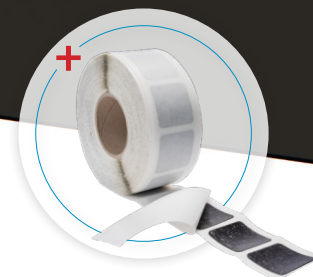
DUPLEX Double-Sided Tape



TESCON® NAIDECK Double-Sided Self-Sealing Tape



TESCON® NAIDECK Patch Double-Sided Self-Sealing Patches



ROCKWOOL™ Safe 'n' Silent™ Internal Insulation Between Studs



FORTX™ MELIOR System Core Components:



DUPLEX
Double-Sided Tape



TESCON® PRIMER RP
Solvent-Free Primer



PRESSFIX
Malleable Plastic Tool



PRESSFIX XL
Large Malleable Plastic Tool

FORTX™ MELIOR

pro clima's new tested façade system – a stand-alone solution for weather and thermal protection

FORTX™ MELIOR builds on the proven FORTX™ system by incorporating a non-combustible, hydrophobic layer of continuous external ROCKWOOL™ Rainscreen™ insulation, enhancing thermal performance, improving moisture management, and delivering the highest standard of façade safety and efficiency. FORTX™ MELIOR is a stand-alone solution for weather and thermal protection.

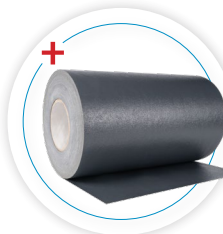
Where in-wall insulation is used inside the FORTX™ MELIOR system, incorporating INTELLO® PLUS provides the ultimate solution for airtightness, vapour control and healthy buildings.

pro clima
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WITHOUT ANY CLADDING

TESCON EXTOSEAL®
Sill Tape



PRESSFIX XL
Pressing Tool



TFLEX
Façade Control Joint Material



TESCON EXTORA®
Weathertight Multi-Purpose
Sealing Tape

Alternative Products:



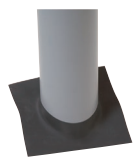
SOLITEX EXTASANA ADHERO®
Self-Adhesive Class 3 WRB



TESCON® NAIDECK
Self-Sealing Strip



INTELLO® PLUS
Intelligent Air Barrier



ROFLEX
Pipe Penetration Sealing

Information & Resources

pro clima's FORTX™ & FORTX™ MELIOR façade system combines rigid boards with a fully adhered WRB to create a seamless, high-performance building envelope. The system eliminates gaps, leaks and stress points while delivering reliable airtightness, watertightness and wind resistance.

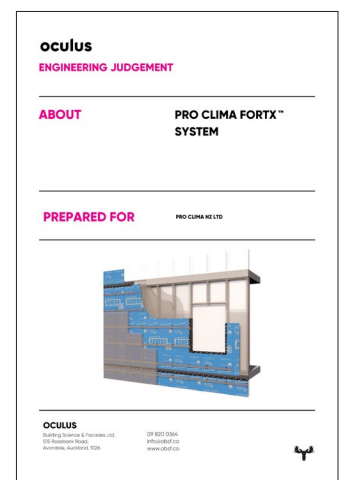
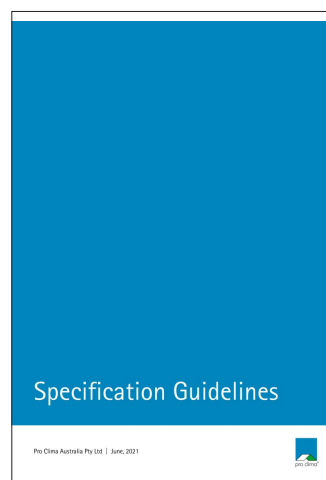
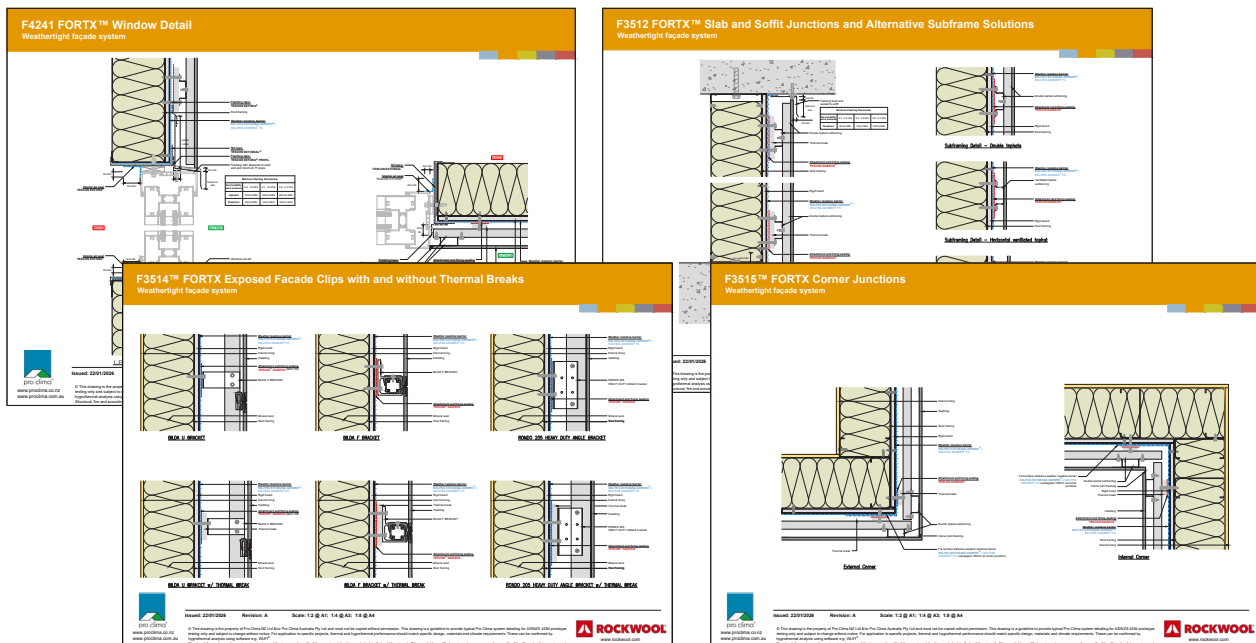
This next-generation façade protection improves thermal efficiency, reduces condensation risk, enhances fire and acoustic performance, and provides balanced vapour control to help prevent mould growth and material decay.

To learn how combining rigid boards with an adhesive WRB can deliver long-lasting protection and improved comfort for your building, get in touch with our Technical Team:

NZ: <https://www.proclima.co.nz/fortx>

AU: <https://www.proclima.com.au/fortx>

Explore how pro clima's advanced façade systems can support your next project.





Certification

SOLITEX EXTASANA ADHERO®
SOLITEX® ADHERO FC



TESCON EXTORA®



TESCON EXTOSEAL®



INTELLO® PLUS



Declare.



Visit our website for
more details and downloads
proclima.co.nz/fortx
proclima.com.au/fortx



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