

ALLCO WARM ROOF SYSTEM

THERMAL PERFORMANCE AND PROTECTION
FOR FLAT AND LOW PITCHED ROOFS

JULY
26

ALLCO WARM ROOF

Your solution to ensure H1 compliance.

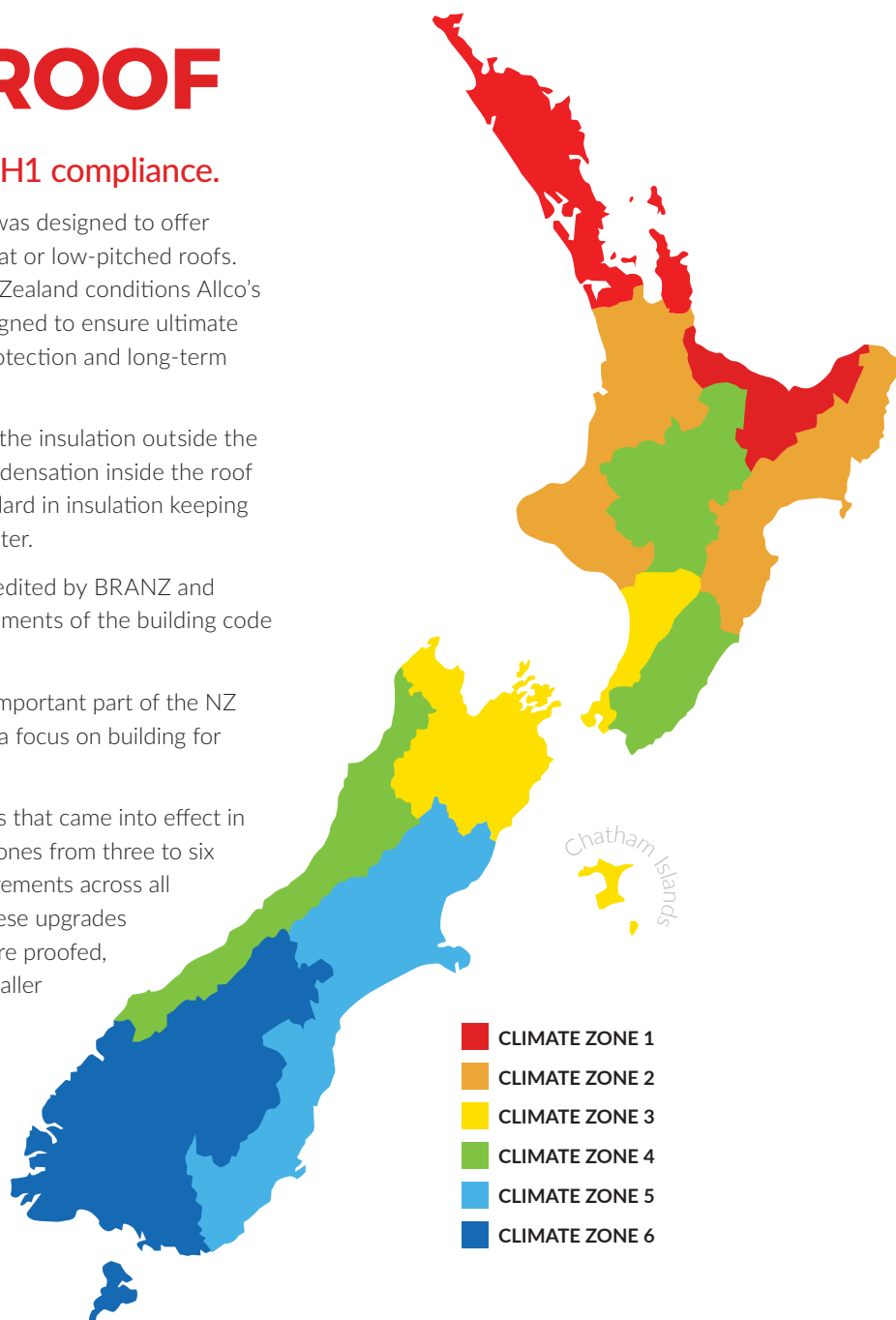
The Allco Warm Roofing System was designed to offer exceptional roofing insulation in flat or low-pitched roofs. Created in New Zealand for New Zealand conditions Allco's Warm Roof System has been designed to ensure ultimate thermal performance, high UV protection and long-term durability.

Allco's Warm Roof System places the insulation outside the building envelope, eliminating condensation inside the roof build-up to provide the gold standard in insulation keeping your home warmer, drier and quieter.

Allco's Warm Roof System is accredited by BRANZ and complies with the new H1 requirements of the building code in all 6 climate zones.

Energy efficiency has become an important part of the NZ building code in recent years with a focus on building for climate change.

The H1 Energy Efficiency upgrades that came into effect in May 2023 expanded NZ climate zones from three to six and increased the insulation requirements across all building types. The intention of these upgrades is to deliver buildings that are future proofed, more energy efficient and have smaller carbon footprints.



- CLIMATE ZONE 1
- CLIMATE ZONE 2
- CLIMATE ZONE 3
- CLIMATE ZONE 4
- CLIMATE ZONE 5
- CLIMATE ZONE 6

ROOFING R VALUES						
	CLIMATE ZONE 1	CLIMATE ZONE 2	CLIMATE ZONE 3	CLIMATE ZONE 4	CLIMATE ZONE 5	CLIMATE ZONE 6
All residential and roofs up to 300m ²	R 6.6	R 6.6	R 6.6	R 6.6	R 6.6	R 6.6
Commercial roofs over 300m ²	R 3.5	R 4.0	R 5.0	R 5.4	R 6.0	R 7.0

WHY AN ALLCO WARM ROOF?

The Allco Warm Roof has been specifically designed with energy efficiency in mind to ensure warm dry buildings for years to come.

- ✓ BRANZ Appraised to ensure it meets NZ building code compliance
- ✓ New Zealand manufactured PIR insulation boards
- ✓ Fully adhered system for easy installation
- ✓ Thin/compact assembly – only 147.2mm build up
- ✓ Flexibility to use your preferred Allco membranes – Torch-on or TPO
- ✓ Durable fibre cement cover board
- ✓ Can be incorporated into the ALLRITE Recover Roof System
- ✓ Compatible with EVFM leak detection systems
- ✓ Comprehensive Allco quality assurance.

BRANZ APPRAISAL (No 1166)

Allco's Warm Roof System is BRANZ appraised meaning it meets their rigorous testing criteria and New Zealand building standards.

PIR INSULATION BOARDS

Allco's Warm Roof System uses high performance PIR Insulation boards. Our PIR is manufactured in New Zealand to the highest standards, ranging from 50mm to 150mm thickness, translating into R-Values varying from R2.34 to R7.01. The ample range ensures we are not only able to accommodate your design and project needs, we also meet or exceed the new H1 requirements.

Another advantage of being locally manufactured is the ability to produce custom sized PIR panels outside the standard 1200mm x 2400mm size.

Thickness (mm)	50	75	100	140	150
R Value at 15°C (mK/W)	2.34	3.50	4.67	6.54	7.01
Weight (kg/m²)	2.29	3.39	4.49	6.25	6.69

FULLY ADHERED SYSTEM FOR EASY INSTALLATION

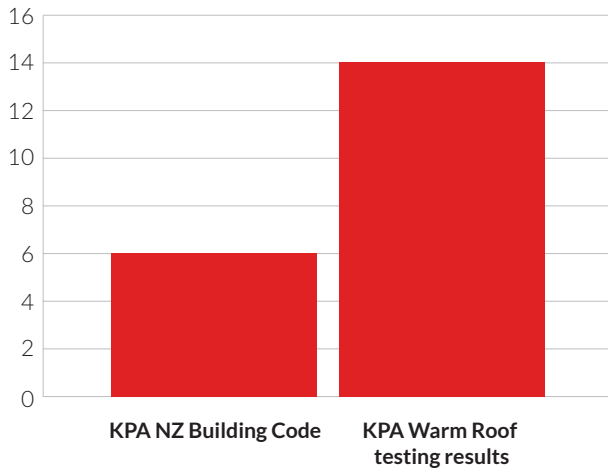
The Allco Warm Roof System is a fully adhered system eliminating the need for mechanical fasteners. Mechanical fasteners penetrate the insulation panels and the vapour barrier of the build-up, resulting in thermal bridging, reducing the efficiency of the system.

Allco's Warm Roof System utilises a high strength low VOC adhesive with superior bond strength to adhere each layer of the build-up. Allco's Warm Roof system utilises high strength low VOC adhesive with superior bond strength to adhere each layer of the build-up offering a quick and efficient installation process.



Our system build up has been thoroughly and independently tested and has demonstrated an average uplift of 14kpa, well above building code requirements.

KPA UPLIFT



MEMBRANE SELECTION

Allco's Warm Roof offers design flexibility with the choice of Allco's CodeMark Certified membranes - TPO Single Ply or two-layer Bitumen Torch-On. Both membranes will deliver a watertight and visually refined finish. Allco's Warm Roof can also serve as a base for Green Roofs and Ballasted Roof Systems.

THIN ASSEMBLY

Allco's Warm Roof System is one of the thinnest warm roof build ups available today. The full assembly - from the vapour barrier to the membrane - measures a mere 147.2mm while still achieving H1 compliance. With this unique feature architects gain the flexibility to design structures with relatively low parapet heights, all while meeting the increased insulation demands imposed by the latest building codes.

COVER BOARD

Allco's Warm Roof System can be installed either directly over the insulation board or over a 6mm fibre cement cover board, allowing the system to be tailored to the project's requirements. Where specified, the cover board provides added protection and impact resistance, helping protect the insulation during and after construction. To ensure you are selecting the best solution for your project, please consult with Allco's Technical Team.

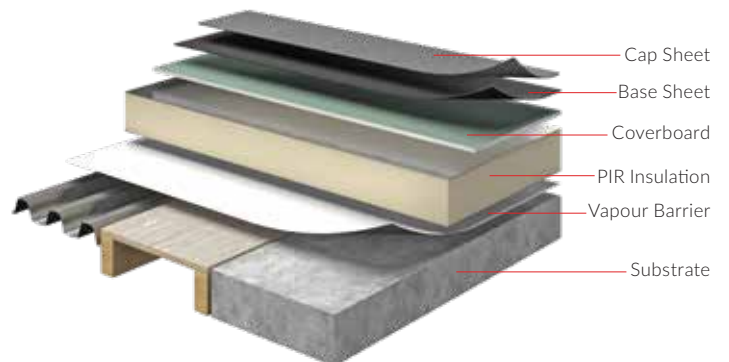
RECOVER ROOFS

The Allco Warm Roof System can be incorporated into an ALLRITE Recover Roof System on existing metal tray roofs.

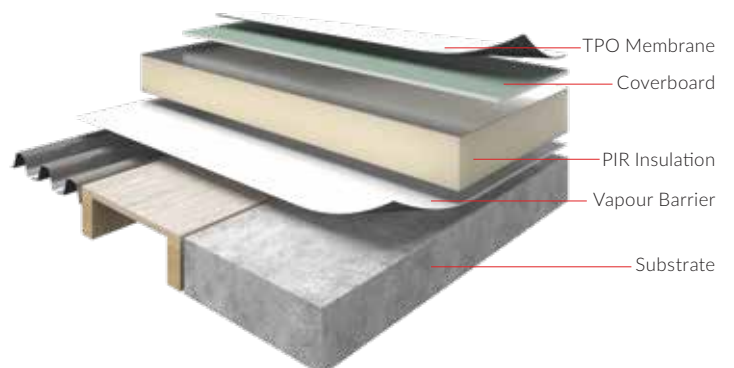
LEAK DETECTION

Allco's Warm Roof is compatible with the EFVM (Electric Field Vector Mapping) system. This allows for the detection of any breaches to the membrane after installation which can be repaired immediately and annual testing can be carried out as part of your maintenance program, offering peace of mind to owners and occupants.

TORCH-ON BUILD UP



TPO BUILD UP



COMPREHENSIVE QUALITY

Allco offers comprehensive quality assurance through planning and design, installation and care and maintenance advice.

Allco encourage our involvement at the concept stage of the project to ensure all aspects of the building scope are met. We can incorporate our system design partners into your projects so structural and thermal calculations are provided and a PS1 for design can be issued by our system design partner. Beware of substitution and protect your project by registering with Allco at the design stages to receive the full benefits.

Allco specification documents are available through Masterspec or can be downloaded from our website (www.allco.co.nz). Substitution of any products in NZBC compliant systems should not be accepted and we recommend that this is made clear in all specification and tender documents.

We support the project with a thorough QA program to ensure it meets all stakeholders' expectations and the system is installed correctly.

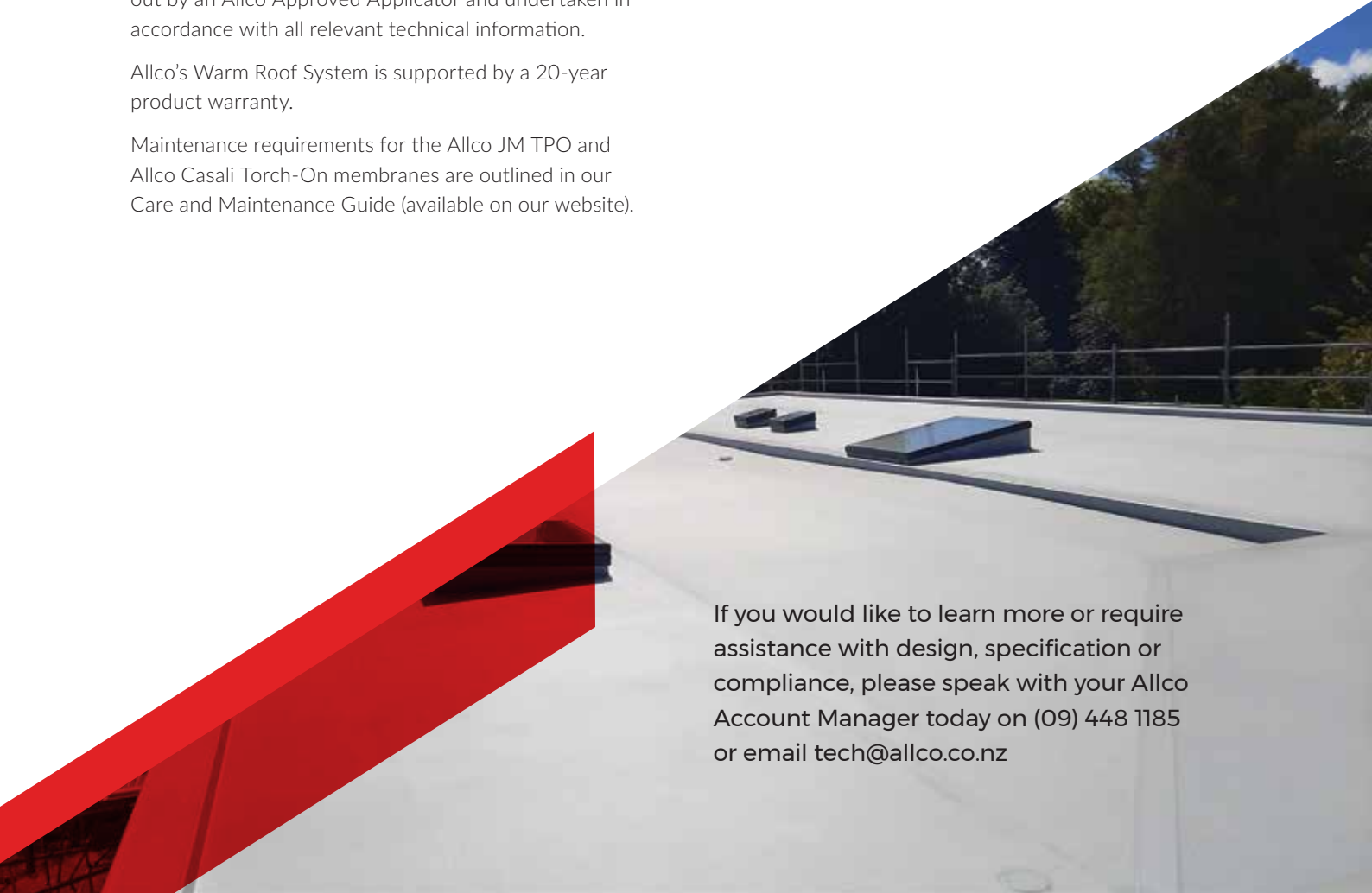
Installation of Allco's Warm Roof System shall be carried out by an Allco Approved Applicator and undertaken in accordance with all relevant technical information.

Allco's Warm Roof System is supported by a 20-year product warranty.

Maintenance requirements for the Allco JM TPO and Allco Casali Torch-On membranes are outlined in our Care and Maintenance Guide (available on our website).

LIABILITY

The quality of the supply of products to the New Zealand market is the responsibility of Allco Waterproofing Solutions Ltd and its associated component supply partners. Quality on site is the responsibility of the Allco Waterproofing Solutions Ltd trained and approved installers. Designers are responsible for the building design and building contractors are responsible for the quality of construction of substrate systems in accordance with the instructions of Allco Waterproofing Solutions Ltd. Building owners are responsible for the maintenance of the membrane systems in accordance with Allco Waterproofing Solutions Ltd installation and care guides.



If you would like to learn more or require assistance with design, specification or compliance, please speak with your Allco Account Manager today on (09) 448 1185 or email tech@allco.co.nz



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