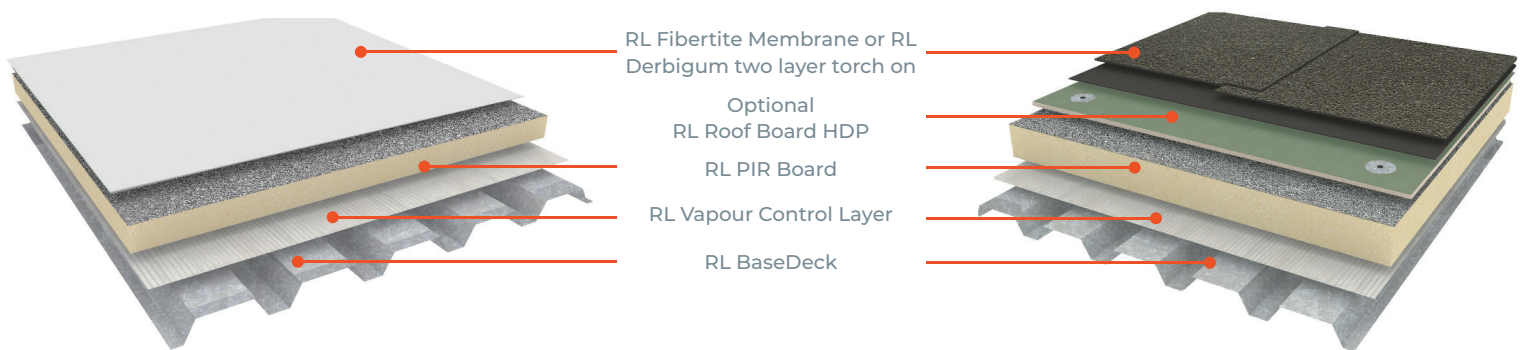


# ULTRATHERM XTREME

The Ultratherm Xtreme system incorporates superior quality components carefully selected based on stringent performance criteria and proven in-service performance.



RL Ultratherm Xtreme Systems

The Ultratherm Xtreme system is the leading insulated membrane roofing solution in the New Zealand market, offering unparalleled benefits compared to any other built-up insulated membrane roofing solution.

## BENEFITS AND ADVANTAGES

**Designed/Engineered/Tested as a system:** RoofLogic's Ultratherm Xtreme system has been engineered and extensively tested as a complete system. This sets it apart from other built-up membrane systems in New Zealand. The system has undergone comprehensive testing, including structural performance assessments such as point load deflection and wind uplift resistance. As a result, RoofLogic is able to provide a PS1 (Producer Statement) certifying the system's structural performance.

**Weathertightness:** Ensuring weathertightness is a top priority for RoofLogic. The assembly is designed and tested to provide a secure structure, while utilising top-quality roofing membranes. Fibertite KEE thermoplastic membranes and Derbigum modified bitumen membranes are chosen for their exceptional durability and proven track record in providing long-lasting protection against weather elements.

**Design Flexibility:** The Ultratherm Xtreme system offers design flexibility with a range of options for base decks, substrates, insulation board thicknesses, acoustic components, and membrane solutions.

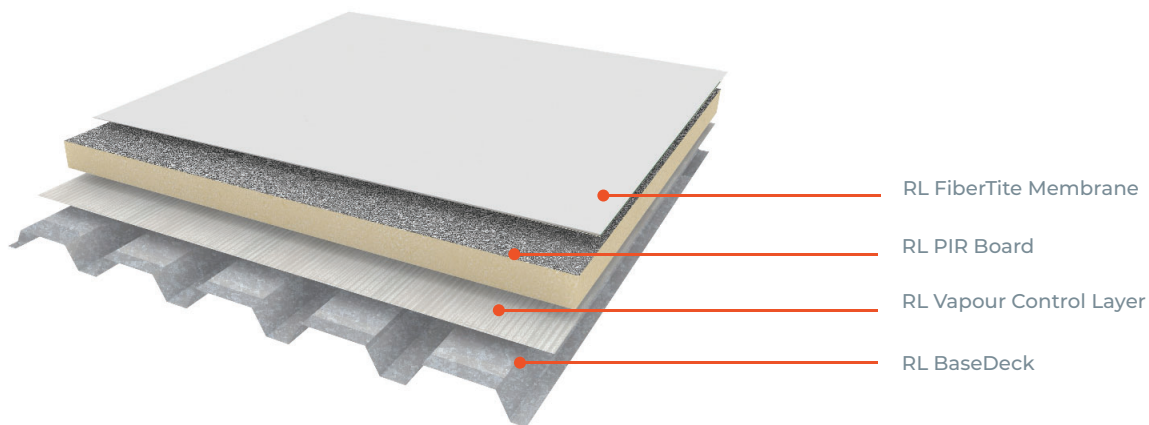
This versatility allows for customised designs to meet specific project requirements.

**Acoustic Performance:** RoofLogic has collaborated with leading acousticians and NZ testing facilities to conduct extensive acoustic testing. The results have shown that PIR insulation board provides no significant acoustic benefits within an insulated roof assembly. However, the ability to add RL Roof Board HDP enhances the system's acoustic performance, addressing both environmental noise and rain noise.

**Durability:** The PIR used in RL Ultratherm Xtreme has very high compressive strength and is an excellent substrate for membrane. For improved trafficability, RL Roof Board HDP significantly improves impact resistance and long-term durability within the system. This enhanced strength greatly increases the system's resistance to foot traffic and other concentrated loads typically encountered on roofs.

## ULTRATHERM XTREME SYSTEM WITH FIBERTITE

The RoofLogic Ultratherm Xtreme system is an insulated membrane roof assembly providing thermal, acoustic and structural performance to meet precise project requirements.



RL Ultratherm Xtreme with FiberTite

### BENEFITS AND ADVANTAGES

The 40-year service history of FiberTite roofing membrane demonstrates its effectiveness and durability in various environments. Since its first installation in 1979 in the USA, roofs with FiberTite membranes have consistently provided reliable protection.

One notable advantage of FiberTite is its stability in formulation. Unlike other roofing membranes, FiberTite has not undergone any product reformulations in the past 40+ years. This is because the initial polymerisation process was of the highest quality. The only changes made have been the introduction of a wider range of thicknesses, reinforcement packages, and color options.

FiberTite boasts fewer limitations compared to other membranes. For instance, it remains unaffected by chemical exposure and ponding water, ensuring that these factors do not invalidate the warranty.

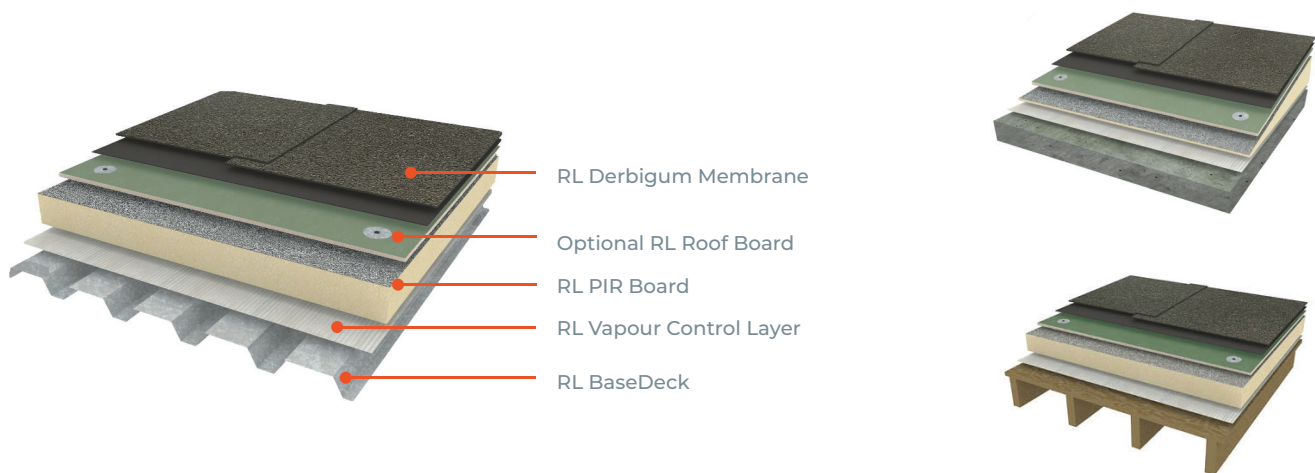
The membrane's performance is particularly impressive in harsh environments. Over the course of four decades, FiberTite has been extensively tested and has proven its resilience. It excels in the following areas:

- High wind zones: FiberTite demonstrates superior performance in regions with high wind loads.
- High UV zones: FiberTite is the preferred membrane for areas with intense UV radiation, such as Colorado City at high elevations, Arizona, and Nevada, where extreme heat and prolonged sunshine hours are common.
- Chemical exposure: FiberTite exhibits resistance to a wide range of chemicals commonly encountered on rooftops, including compressor oils, hydrocarbons, and animal fats.

Overall, FiberTite has established a remarkable track record, outperforming other roofing membranes in terms of durability, resistance to environmental factors, and chemical exposure.

# ULTRATHERM XTREME SYSTEM WITH DERBIGUM

The RoofLogic Ultratherm Xtreme system is an insulated membrane roof assembly providing thermal, acoustic and structural performance to meet precise project requirements.



RL Ultratherm Xtreme with Derbigum shown over substrate options

## BENEFITS AND ADVANTAGES

**Thermal Performance:** Ultratherm Xtreme Derbigum offers varying thickness of PIR and Stonewool to meet the requirements of all Climate Zones as mandated by NZBC H1 (Energy Efficiency). Tapered PIR available.

**Management of Condensation Risk:** The RL Ultratherm Xtreme Derbigum system incorporates a complete vapour control layer and project specific hygrothermal calculations to address thermal performance and moisture concerns. This system ensures superior performance, durability, and protection against interstitial condensation, mould growth, and corrosion.

**Sustainability:** Derbigum membrane remains 100% recyclable.

**Durability:** Manufactured from a blend of bitumen and TPO plastomers, Derbigum membrane features a separate dual reinforcement system that ensures superior puncture resistance and dimensional stability. This design enhances the ability to withstand external pressures and maintain the structural integrity over time.

**Aesthetics:** Derbigum comes in mineral slate finishes, light grey and dark grey. This makes it ideal for iconic and statement buildings where the roof is visible. It has the lowest chip loss percentage in durability, and resistance to environmental factors and chemical exposure in the industry.

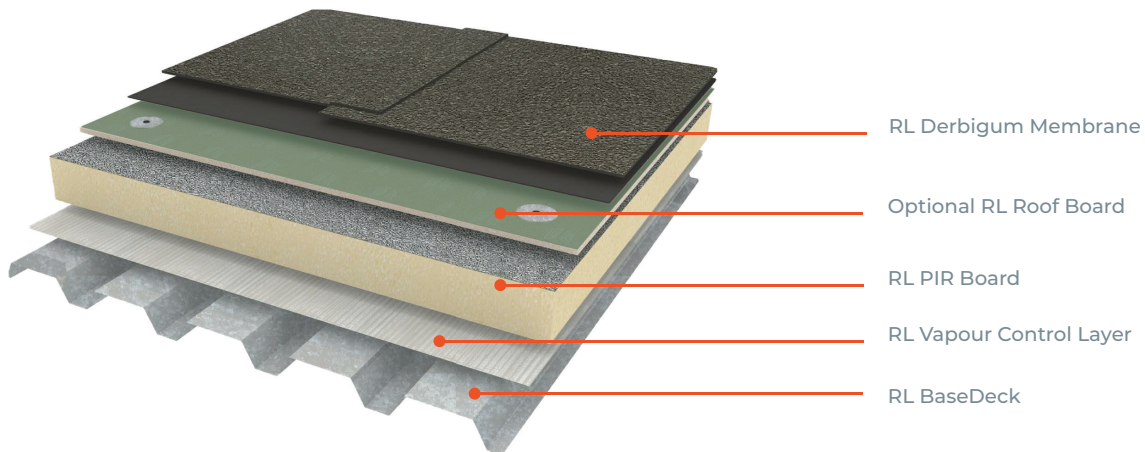
**Acoustic Performance:** Optional use of Roof Board HDP for trafficability and acoustic performance. Roof Board HDP improves rain noise and attenuation performance.

**Structural Performance:** System includes project specific structural design.

**Certification:** The production of Derbigum is ISO 9001 certified and the production site is ISO 14001 certified.

# ULTRATHERM XTREME SYSTEM WITH DERBIGUM

The RoofLogic Ultratherm Xtreme system is an insulated membrane roof assembly providing thermal, acoustic and structural performance to meet precise project requirements.



RL Ultratherm Xtreme with Derbigum

## BENEFITS AND ADVANTAGES

Derbigum began producing roofing membranes in 1932 and since that time has established itself as a manufacturer of modified bitumen roofing systems with extreme durability.

Over the last 20 years Derbigum's focus on sustainability has seen it develop innovative roofing membranes, production methods and recycling practices. Whatever the roofing requirements; optimal long term protection, recuperation of rainwater, saving or generating energy, or green roofs -

Derbigum has the most durable and environmentally sustainable solution.

- 600 million m<sup>2</sup> of roofs installed world-wide
- 15 million m<sup>2</sup> of roofing membrane sold every year
- 10,000 references of roofs over 30 years old
- 4000 tonnes of bitumen material recycled every year
- Manufactured membranes contain 30% recycled bitumen
- Truly innovative roofing membranes.
- First bitumen free "bitumen membrane" made entirely from plant matter.
- Membranes designed to digest and convert CO<sub>2</sub> from the atmosphere

## DURABILITY

Derbigum membranes have gained worldwide recognition for their exceptional ability to withstand the test of time. With a selection of top-quality raw materials, stringent quality control measures, continuous product development, and over 80 years of experience, Derbigum products will always deliver.

Manufactured from a blend of bitumen and TPO plastimer, Derbigum membranes possess remarkable stability, enabling them to perform flawlessly in the most challenging environments for an impressive 45 years. They can achieve this level of durability even without the need for additional protection like mineral slates or coatings. Derbigum membranes feature a separate dual reinforcement system that ensures superior puncture resistance and dimensional stability. This design enhances their ability to withstand external pressures and maintain their structural integrity over time.

Derbigum comes in a mineral slate finishes with the lowest chip loss percentage in the industry durability, resistance to environmental factors, and chemical exposure.