

# DERBIGUM MEMBRANE

## DURABILITY & SUSTAINABILITY

### ROOFLOGIC INFORMATION SHEET



When it comes to manufacturing superior roofing membranes two words summarise the Derbigum philosophy;

### PERFORMANCE & SUSTAINABILITY

### INTRODUCTION

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 your 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 m2 of roofs installed world-wide
- 15 million m2 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 CO2 from the atmosphere



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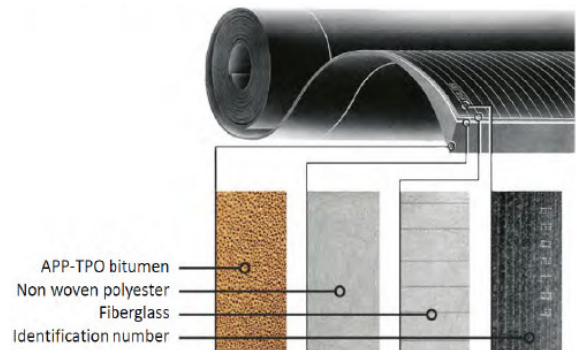
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#### DURABILITY

Derbigum membranes are recognised throughout the world as providing superior long-term durability. The finest raw materials, rigorous quality control, continual product development and over 80 years experience is your assurance that Derbigum products will never let you down.

Derbigum membranes are manufactured from a bitumen/TPO plastimer blend that is so stable it will perform in the harshest environments for 45 years - even without the protection of mineral slates or coatings! Separate dual reinforcement provides superior puncture resistance and dimensional stability.

Multiple finishing options including mineral slate finishes with the lowest chip loss percentage in the industry, highly reflective finishes and even aggregate coatings that literally dissolve CO2 from the atmosphere.

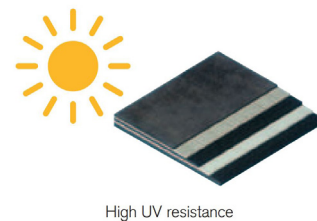
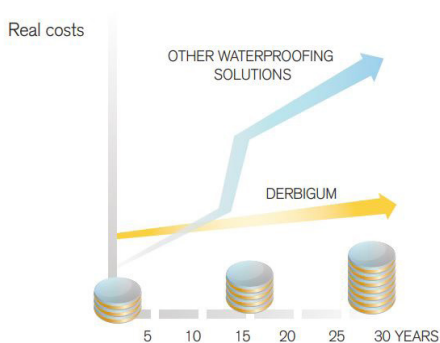


#### LIFE CYCLE COST

Derbigum modified bitumen roofing membranes have a proven life-span, established in independent testing, of 45 years. And further independent research has shown that, after 45 years, one additional layer of Derbigum will provide an additional 45 year service life.

$$45+5= 90$$

Manufacturing roofing membranes since 1932, Derbigum have over 10,000 references in excess of 30 years.



The most advanced TPO polymer blend ensures superior UV resistance



Cold bending to -15°C allows for exceptional application qualities in all climates



Flow resistance at 140°C ensures Derbigum has exceptional resistance to roof traffic

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## SUSTAINABILITY

Thousands of tons of redundant bitumen recycled every year. Development of truly innovative and sustainable roofing membranes. Renewable energy used to power the computer system at Derbigum.

Sustainability. To Derbigum its more than a buzz word or trend. It is a way of doing business that guides every decision and strategy.

Derbigum is focused on manufacturing roofing membranes with the lowest environmental impact:

#### VERIFIED LIFE CYCLE AUDITS:

To be a sustainable choice a roofing membrane must provide optimal in-service performance.

#### REDUCED EMISSIONS:

In the last 8 years Derbigum has reduced the quantity of CO<sub>2</sub> in the production of its membranes by 70%.

#### FULLY RECYCLABLE:

All Derbigum membranes are 100% recyclable enabling them to be used in the production of new Derbigum membranes.

#### RECYCLED CONTENT:

Derbigum membranes contain up to 30% recycled content. For every 1000 tons of recycled content incorporated into Derbigum membranes CO<sub>2</sub> emissions are reduced by 4000 tons.

#### DERBICOLOR OLIVINE:

Derbicolor Olivine membrane is coated with natural olivine stone. Olivine coated membrane has the unique ability to extract CO<sub>2</sub> from the atmosphere.

#### RENEWABLE RAW MATERIALS:

Derbipure membranes are the start of a revolution. Derbipure is the world's first "bitumen free bitumen membrane" comprised completely of vegetable matter



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## MEMBRANE OPTIONS—DERBICOLOUR FR

Installed as a two-layer modified bitumen membrane system over a range of substrates Derbicolor FR provides many benefits:

#### DURABILITY:

Derbicolor FR quality means exceptional performance and low life-cycle cost. Independent audits state 45 year durability.

#### AESTHETICS:

Natural slate finish with granular orientation designed to optimise trafficability and achieve lowest slate loss percentage. Further improve aesthetics with the Derbilist batten.

#### RECYCLED CONTENT:

System components have up to 30% recycled content.

#### RECYCLABLE:

At the end of its service life all membranes are 100% recyclable.

#### ECOLOGICAL:

Stability of the polymer blend combined with exceptional slate retention allows water to be recuperated from the roof without contamination.



ST Andrews Chapel, Christchurch NZ, Ultratherm Xtreme with Derbigum.



Victoria Street Development, Wellington NZ. Ultratherm Xtreme with Derbigum.



Close Up of RL Derbicolour FR Dark Grey

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## MEMBRANE OPTIONS—DERBICOLOUR FR OLIVINE

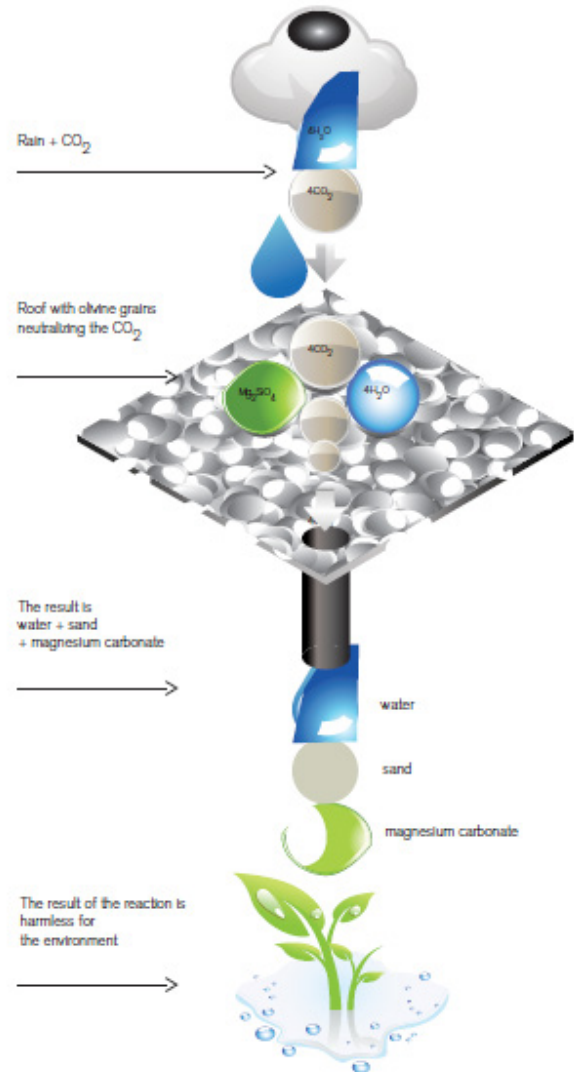
Derbicolor FR Olivine roofing membrane provides all the benefits of Derbicolor FR with the addition of an Olivine granulated mineral finish. Derbigum has been investing intensively over the last 20 years to develop innovative membranes.

FR Olivine is the result of this research. FR Olivine provides the specifier with the ability to offer an attractive, durable roof which also has the ability to neutralise CO<sub>2</sub> present in the atmosphere.

What is Olivine?

The mineral Olivine is an iron magnesium silicate and is one of the most common minerals on earth. The potential of Olivine, referred to as “smart stones” was realised by geologist Professor R D Scheilling from Utrecht University. If Olivine can be mined and distributed it has the potential to lock away gigatons of atmospheric CO<sub>2</sub>. Derbicolor FR Olivine is an exciting commercial application for this ground-breaking research.

When the CO<sub>2</sub> makes contact with the olivine on the roof it will undergo a chemical reaction. The final product of this reaction will be evacuated along with the rainwater in the rainwater system and the result of the reaction is harmless to nature.



**ROOFLOGIC**  
INTELLIGENT ROOFING SOLUTIONS