Derbigum
Bituminous Membranes

High performance waterproofing membranes available with extended warranties and the highest levels of project support.

Derbigum systems offer a variety of environmentally beneficial, sustainable characteristics which include membranes with high levels of recycled content, innovative CO$_2$ neutralising membranes, energy efficient ‘cool’ roofs and vegetal, non-bituminous solutions.
Derbigum

Bituminous Membranes

Derbigum has inspired confidence and peace of mind in building surveyors and architects since 1967. Over 600 million square metres have been installed worldwide, including 20 million square metres in the UK, making it the first choice for flat roof waterproofing.

Derbigum dual-reinforced APP (Atactic Polypropylene) modified bitumen roofing and waterproofing membranes have a proven track record of success, with installations from the 1970s still in existence today. Enhanced performance properties include flexibility, excellent fire ratings, stronger reinforcement and ease of application.

The membrane’s excellent life expectancy is a direct result of the application of superior blending technology and an unrivalled understanding of the chemistry of polymer modification, driven by almost 50 years of development and experience.

Derbigum systems with specialist ecological features are available, and include CO2 neutralising membranes, vegetal membranes, energy efficient ‘cool’ roofs and variants containing up to 30% recycled content. All Derbigum bituminous membranes are 100% recyclable.

Derbigum is only installed by leading UK contractors, guaranteeing expertise and quality control. Derbigum Registered Contractors work in a formal partnership with Alumasc, ensuring practical and durable solutions for flat roofing and waterproofing projects.
System Benefits

30-35 Years Life Expectancy
Examinations on existing roof constructions, installed in the 1970s using a Derbigum upper layer are still in existence today. These roofs are periodically assessed to ascertain the remaining lifespan of these Derbigum installations. However, the proven durability of these roofs underpins the extended duration of Alumasc warranties covering Derbigum installations. It is also widely acknowledged that the installation of an inverted or green roof build-up will significantly enhance the lifespan of the roofing membrane below.

Proven Durability
Existing roof constructions, installed in the 1970s using a Derbigum upper layer, which are still in existence today are periodically assessed to ascertain the remaining lifespan. The proven durability of these roofs underpins the extended duration of Alumasc warranties covering Derbigum installations. It is also widely acknowledged that the installation of an inverted or green roof build-up will significantly enhance the lifespan of the roofing membrane below.

UV Resistance
Derbigum can be installed without any surfacing, regardless of the method of application, due to the unique blend of polymers which make Derbigum resistant to UV degradation.

Wind Uplift Testing
Derbigum systems are rigorously tested in-house to ensure security in extreme wind uplift conditions in accordance with BS EN 1991-1-4.

Fire Performance
The highest rating of F.AA is achieved by Derbigum Mineral. Standard Derbigum Black has a fire rating of F.AC to BS 476: Part 3 (ENV 1187/4). The use of Derbigum NT Black, Derbigum Black and Derbigum Mineral is unrestricted under the current Building Regulations.

British Board of Agrément Approved
Derbigum is approved by the British Board of Agrément (Certificate No 86/1593).

CE Marking
All Derbigum roofing membranes, including underlays and vapour barriers, are CE marked, and Declaration of Performance (DoP) certificates are available upon request.
Alumasc Warranty

Alumasc offer a number of warranty options, typically ranging from 20-35 years, covering product, design and installation.

Alumasc warranties are supported by public and product liability insurances with a total indemnity limit of £50 million. Third party insurance backing giving cover against latent product defects is available via Prudential Regulation Authority (PRA) regulated insurance brokers subject to independent final inspection, documented compliance with an agreed maintenance schedule and pre-payment of the relevant premium.

On selected projects, Alumasc are able to offer an enhanced warranty package which includes additional site monitoring and reporting, in-house leak detection surveys, and five-yearly site inspections for the duration of the warranty to ensure continued peace of mind.

The warranty is issued following successful application of the Derbigum system and subsequent leak testing.

Derbigum Registered Installers

The Derbigum range is only supplied to registered contractors, whose contracts managers and operatives must undergo a stringent training programme at Alumasc’s head office, prior to obtaining registered status. The quality of workmanship is monitored on site on an ongoing basis to ensure compliance with the warranty and current codes of practice.
Environmental Benefits

Advanced production techniques, in-service benefits and end-of-life recyclability combine to significantly reduce the ecological footprint of a building waterproofed with a Derbigum system.

Recyclable
All Derbigum bituminous membranes are 100% recyclable using the Macalusor® technique – a unique bitumen waste processor, recycling roofing off-cuts and bituminous waste. Derbibond NT is supplied in polyethylene-lined drums which are uncontaminated after use and re-usable.

Recycled Content
Derbigum’s manufacturing technologies allow up to 25% recycled content in Derbigum NT Black and 30% in the Derbicoat NT underlay.

CO₂ Neutralising Membrane
Derbigum Olivine membranes neutralise up to 1.75kg of CO₂ in rainwater per square metre, thus contributing to a reduction in the greenhouse effect.

Vegetal Membrane
Derbipure is a revolutionary new membrane manufactured from vegetable oils and resins, and is bitumen-free. The reflective acrylic coating brings the additional benefit of passive cooling to the building during hot weather.

Cool Roof Membranes
The reflective coating of the Derbipure membrane greatly reduces surface temperatures by reflecting up to 81% of sunlight, thereby lowering air-conditioning requirements by passive cooling of the building. Photovoltaic panels on cool roofs are up to 2% more efficient due to the lower ambient temperature.

pH Neutral Rainwater Run-off
The acrylic coating of Derbipure ensures that rainwater run-off remains pH neutral and is suitable for recycling.

VOC-free Adhesive
The Derbibond NT cold bonding adhesive is completely free from Volatile Organic Compounds and is solvent-free.

BREEAM Ratings
Ratings for building materials given in the 2008 BRE Green Guide to Specification allow designers to choose those products or construction methods with the least environmental impact.

Derbigum high performance waterproofing membranes contribute to a very good generic rating in the Green Guide to Specification dependent on the roof construction into which they are incorporated. This can range from an ‘A+’ rated warm roof construction on timber and metal decks through to a ‘D’ rated inverted build up incorporating concrete. The choice of substrate will greatly influence the final construction rating. Most warm roof constructions achieve an ‘A+’ or ‘A’ rating.

Quality
## Derbigum System Selector

### Concrete Deck

<table>
<thead>
<tr>
<th>Cap Sheet</th>
<th>Application</th>
<th>Underlay</th>
<th>PIR Insulation</th>
<th>Insulation Adhesion</th>
<th>Vapour Control</th>
<th>Primer</th>
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<td>BGT</td>
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### Refurbishment

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<td>Derbicoat NT Alu</td>
<td>Bitumen Primer</td>
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**Notes:**
- Torch-applied or Hi Ten Universal vapour control layers
- See Product Data table and separate Product Data Sheets for full product descriptions.

**Contact:**
+44 (0) 1744 648400

### T/O, S/A, Self-Adhesive

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<td>Self-Adhesive</td>
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</table>
Typical Applications

**Warm Roof – New Build or Refurbishment**
- Derbigum Olivine – CO₂ neutralising cap sheet
- Derbicoat NT Underlay – torch-applied
- Alumasc PIR Insulation – rigid urethane
- Derbicoat Selfix HP Vapour Control Layer – flame-free application
- Plywood Deck – suitably primed with Alumasc Bitumen Primer

**Warm Roof – Refurbishment**
- Derbigum NT Black – self-finished cap sheet
- Derbicoat NT Underlay – torch-applied
- Alumasc PIR Insulation – rigid urethane
- Derbicoat NT Alu Vapour Barrier – torch-applied
- Existing Roofing (if retained) – suitably primed with Alumasc Bitumen Primer
- Existing Concrete Deck

**Green Roof – New Build**
- Blackdown Vegetation – lawns, annual, biennial or perennial plants, shrubs, sedums etc
- Stone Vegetation Barrier – 20-40mm round washed stone and/or paving
- Blackdown Substrate – lightweight growing medium
- Blackdown Filter Sheet – 110g polypropylene
- Blackdown Drainage Layer – cuspated, recycled HDPE
- Blackdown Protection Fleece – 300g polypropylene
- Derbigum Anti-Root – root resistant cap sheet
- Derbicoat NT Underlay – torch-applied
- Alumasc PIR Insulation – rigid urethane
- Derbicoat NT Alu Vapour Barrier – torch-applied
- Concrete Deck – suitably primed with Alumasc Bitumen Primer
Derbigum Black

Derbigum NT Black
The Derbigum NT waterproofing membrane offers environmental benefits as it is manufactured using a minimum of 25% recycled material. It can be used for both new build and refurbishment projects to upgrade thermal performance, improve roof drainage and/or restore the water-tightness of existing roofs.

As a self-finished (non-mineralised) membrane, Derbigum NT can be used unsurfaced, without loss of performance. It is ideal for use as a cap sheet in either a cold applied single layer system, or torch-applied cap sheet in a traditional built-up roofing system.

Derbigum Black
A Derbigum Black variation, manufactured using conventional techniques and materials is also available. This is BBA certified – Cert No. 86/1593, and the BBA state ‘under normal service conditions Derbigum Black will provide a durable waterproof covering with a service life in excess of 30 years’.

Derbigum Anti-Root
Derbigum membranes are also available in FLL approved anti-root variants for green roof applications.

Derbigum GC
Derbigum GC is a 5mm extra-heavy duty membrane for single layer torch-applied application in roads, bridges and other civil engineering applications, and is suitable for receiving poured concrete or directly hot-rolled asphalt.

Key Features

Warranty
The typical warranty period for Derbigum Black membranes is up to 35 years.

Performance
Derbigum membranes perform in the harshest conditions, with their APP-modified bitumen and dual polyester and glass fibre reinforcements ensuring excellent resistance to puncture and UV degradation.

—

Derbigum NT Black
Black cap sheet

Derbicoat NT
Torch-applied underlay

Alumasc PIR Insulation
Available with glass tissue or bitumen glass tissue facings

Derbicoat NT Alu
Torch-applied vapour barrier

Screeded Concrete Deck
Suitably primed with Alumasc Bitumen Primer
Derbigum Olivine

**CO₂ Neutralising Membrane**

Derbigum Olivine is a high performance flat roofing membrane comprising APP-modified bitumen, composite reinforcement and natural olivine granule surfacing, which has an opaque olive-green appearance.

When rainwater comes into contact with olivine, an irreversible chemical reaction occurs. CO₂ is neutralised permanently and the result creates a residue in the form of sand and magnesium carbonate, two products that are harmless to the environment. One square metre of Derbigum Olivine will neutralise approximately 1.75kg of CO₂.

The Olivine membrane is ideal for use as a cap sheet in either a cold-applied single layer system, or torch-applied as a cap sheet in a traditional built-up roofing system, in both new build and refurbishment projects.

Derbigum Mineral

Derbigum Mineral is also available as an alternative with a standard mineral surface in either light grey or charcoal.

### Key Features

**Warranty**

The typical warranty period for Derbigum Olivine and Derbigum Mineral is up to 35 years.

**Lifespan**

According to BBA certificate 86/1593, ‘under normal service conditions the membranes will provide a durable waterproof covering with a service life in excess of 30 years’.

**Performance**

The Derbigum Olivine high performance membrane comprises APP-modified bitumen with dual polyester and glass fibre reinforcement, ensuring excellent resistance to puncture and UV degradation.
Derbipure Vegetal Membrane

Derbipure is a unique vegetal waterproofing membrane with a base of organic raw material. Composed of vegetable oils and pine resin, it is completely bitumen-free. A white acrylic coating offers maximum reflectivity whilst glass and polyester reinforcement ensures excellent resistance to puncture and UV degradation.

The Derbipure built-up warm roof is the ideal ecological solution for the roofing of new build projects, and its reflective coating brings the additional benefit of passive cooling to the building during hot weather.

Derbipure is assessed to the Cradle to Cradle Certified™ Product Standard which is a continual improvement process that looks at a product through five quality categories – material health, material reutilisation, renewable energy and carbon management, water stewardship, and social fairness.

Key Features

Warranty
The typical warranty period for Derbipure is up to 35 years.

Cool Roofs
The reflective coating of Derbipure greatly reduces surface temperatures by reflecting up to 81% of sunlight, thereby lowering air-conditioning requirements and reducing CO₂ emissions by passive cooling of the building. Photovoltaic panels on cool roofs are up to 2% more efficient due to the lower ambient temperature.

pH Neutral Rainwater Run-off
The acrylic coating of Derbipure ensures that rainwater run-off remains pH neutral and is suitable for recycling.

<table>
<thead>
<tr>
<th>Derbipure</th>
<th>Acrylic coated reflective vegetal cap sheet</th>
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<tr>
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<td>Derbicoat NT Alu</td>
<td>Torch-applied vapour barrier</td>
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<tr>
<td>Profiled Metal Deck</td>
<td>Suitably primed with Alumasc Bitumen Primer</td>
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Derbigum Underlays

**Derbicoat NT**
Glass/polyester reinforced modified bitumen membrane, suitable for use as an underlay installed by torch application or in Derbibond NT cold bonding adhesive on bitumen glass tissue or glass tissue faced PIR insulation. Suitable for use with torch-applied cap sheets.

**Derbicoat Selfix HP**
Glass/polyester reinforced modified bitumen membrane, suitable for use as a self-adhesive underlay on glass tissue faced PIR insulation, and suitable for use with torch-applied cap sheets.

**Hi Ten Universal**
Polyester reinforced, oxidised bitumen membrane, suitable for use as an underlay installed by torch application on bitumen glass tissue faced PIR insulation, used in conjunction with torch-applied cap sheets. Can also be used as a vapour control layer.

Derbigum Vapour Control Layers

**Derbicoat NT Alu**
Glass reinforced, aluminium cored, APP-modified vapour barrier, suitable for installation by torch application onto concrete decks. Used in conjunction with PU adhered PIR insulation boards.

**Derbicoat Selfix HP**
Glass/polyester reinforced modified bitumen membrane, suitable for use as a self-adhesive vapour control layer on plywood or metal decks. Used in conjunction with PU adhered PIR insulation boards.

**Derbicoat NT**
Glass/polyester reinforced modified bitumen membrane, suitable for use as a vapour control layer installed by torch application on metal decks. Used in conjunction with PU adhered PIR insulation boards.
Application Details

**Insulated Upstand**

1. Coping and cavity closer
2. Cavity tray
3. Derbitech HD sealant
4. Alumasc termination bar
5. Derbigum roofing membrane
6. Derbigum underlay
7. Alumasc PiR insulation
8. Derbigum vapour control layer
9. Primed substrate

**Roof Outlet**

1. Harmer AV® outlet with domical grate
2. Derbigum roofing membrane
3. Derbigum underlay
4. Alumasc PiR insulation
5. Derbigum vapour control layer
6. Plywood deck
7. Plasterboard ceiling
**Eaves Gutter**

1. Derbigum roofing membrane
2. Derbigum underlay
3. Derbigum welted drip
4. Treated timber batten
5. Independent upstand
6. Alumasc PIR insulation
7. Derbigum vapour control layer
8. Structural steel support to metal deck

**Rooflight Upstand**

1. Alumasc barrel rooflight
2. Derbigum roofing membrane
3. Derbigum underlay
4. Alumasc PIR insulation
5. Derbigum vapour control layer
6. Primed substrate
Application Details

Door or Window Threshold
1. Door or window threshold
2. Derbitech HD sealant
3. Alumasc termination bar
4. Derbigum membrane
5. Derbigum underlay
6. Alumasc PIR insulation
7. Derbigum vapour control layer
8. Primed substrate

Cold Pipe Penetration
1. Cold pipe
2. Weathering cowl
3. Retaining clip
4. Derbitech HD sealant
5. Derbigum roofing membrane
6. Derbigum underlay
7. Alumasc PIR insulation
8. Derbigum vapour control layer
9. Primed substrate
## Bituminous Membranes
### Derbigum

### Product Data

<table>
<thead>
<tr>
<th>Product</th>
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<td>Polyester reinforced</td>
<td>Universal vapour check</td>
<td>□</td>
<td>7.27 x 1.1m</td>
<td>3mm</td>
</tr>
<tr>
<td><strong>Primer</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alumasc Bitumen Primer</td>
<td>Bitumen based</td>
<td>Surface primer</td>
<td>□</td>
<td>25 litre</td>
<td>125-250 m²</td>
</tr>
</tbody>
</table>

Note: Coverage rates are variable depending on prevailing conditions.

<table>
<thead>
<tr>
<th>T/O</th>
<th>S/A</th>
<th>C/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torch-applied</td>
<td>Self-Adhesive</td>
<td>Cold-Applied</td>
</tr>
</tbody>
</table>