



**CALDER INDUSTRIAL MATERIALS LTD**



Products

# Calder Roofing

# The Calder Group Limited

The largest producers of lead sheet in Europe

# Lead Sheet and Engineered Products



## Calder Group

The Calder Group story began in the early 1700's and now its companies are the largest producers of lead sheet in Europe, manufacturing products which conform to the highest specifications.

Calder Group is Europe's largest producer of specialist lead products outside the battery industry. Group subsidiaries in France, Germany, Holland, Ireland and the UK produce sheet lead for construction markets, and engineered lead products for a wide range of nuclear, medical, military, automotive and other applications.

The Group's objective is to remain the leading European supplier of engineered lead solutions with a worldwide reach.

## Calder Industrial Materials Limited

The UK factory produces lead sheet to BSEN12588, available in 3m and 6m rolls up to 2.4m wide (Special sizes can be provided), which ensures that the tolerances of +/- 5% provide the construction industry with the highest specification product, offering a maintenance-free life and the fixer will never live long enough to see the product fail, provided that the sheet is fixed correctly.

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# Lead

Manufactured to BSEN12588

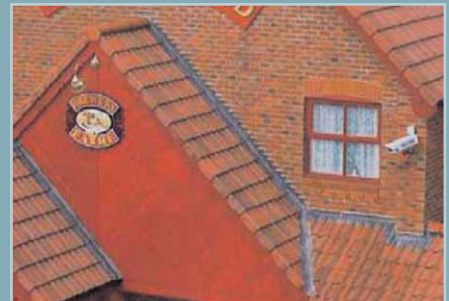


## Main Benefits:

- Lead has been in use for many hundreds of years – the Roman Empire used it for sanitary and ablutionary installations.
- Lead sheet has been in use as a building material for centuries.
- Lead sheet adorns the roofs of churches, offices, factories, public buildings and homes throughout the United Kingdom because of its ease of use, durability and the pleasing grey colour of its protective patina.
- Lead sheet is easily shaped, is long lasting and flexible in all weather conditions.
- Lead sheet is easy to install and will out-perform other building materials, if the rules of good practice are followed.
- Lead is 100% recyclable time after time.
- Over 1,000,000 tonnes have been used in roofing since 1995.

Lead is a natural metal – the Earth's crust contains an estimated 290 million tonnes of it.

- Melting point – 327.4°C
- Atomic weight – 207.2
- Atomic number – 82
- Density – 11.34g/cm<sup>3</sup>
- Co-efficient of linear expansion – 0.0000297 per °C
- Thermal Conductivity – 34.76W/m °C



## Available in:

- Codes 3,4,5,6,7 and 8
- 3m and 6m lengths
- Up to 2.4m wide as standard
- Special sizes can be provided

A comprehensive Lead and Related Products brochure is available on request.

# GRP

(Glass Reinforced Plastic)

## Calderstack Chimney Range

The GRP chimney stack has been developed to meet the needs of modern building practices whilst maintaining traditional appearances demanded by many local planning authorities. Many builders and developers are now using this type of product on their schemes throughout the UK.



### Main Benefits:

- Available as a one piece full GRP unit.
- Cost effective and value adding.
- Realistic replication.
- Lightweight, quick and easy to install.
- Strong and weatherproof.
- Wide range of finishes.
- Available as Dummy, Live Flue or Multi-Fuel installations.
- Apex/Mid Ridge, Gable/End Ridge and Mono Pitch available.

### Accreditation

**rapra**  
TECHNOLOGY

RAPRA Tested for long term UV/Weather conditions.

**bre**

BRE wind tunnel tested - conforms to BS6399: part 2

# Additional GRP Products

GRP is versatile, durable and realistic, combining lightweight with inherent strength it provides a weather resistant finish whilst offering a variety of surface textures and colour ranges. It can be used in a vast number of ways to enhance existing structures, replace traditional materials or complement master craftsmanship. GRP offers realism and creates a strong visual statement whilst reducing construction time and expense.

## Dormers



## Door Canopies



## Window Canopies



## Door Surrounds



### Main Benefits:

- Lightweight and durable.
- Perfect colour matching.
- Replicates most materials.
- Quick and easy to install.
- No delay to finishing trades.
- Low maintenance.
- Saves time and money.
- Suitable for any location.

**A comprehensive GRP brochure is available on request.**

# GRC

(Glass Reinforced Concrete)

## Calder Ridge Range

GRC products have been designed to meet the developers needs to reduce build times whilst aiding safety on site. GRC is fast becoming increasingly popular with UK developers due to its lightweight, durability and ease of installation. The Calder GRC Ridge Range satisfies these requirements whilst maintaining a genuine and economical replication of a traditional roof line when fitted in conjunction with both man-made and natural slate products.

### GRC Ridge

Plain



Capped



Roll Top



#### Main Benefits:

- Cost effective 450mm cover length.
- Colours available: Terracotta, Black and Buff.
- High quality finish simulates natural clay.
- Wide range of angles to suit standard roof pitches.
- Through colour finish.
- Structural profile integrity.
- Compatible with Caldervent range, see pages 8 & 9.
- Precision mould casting ensures consistent level ridge line.

# GRC

## Decorative Ridge Range

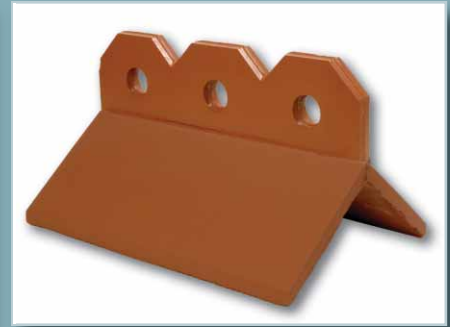
### Ball Top Finial



### Fleur-de-Lys



### 3 Hole Crested



- A further range of crested ridge and finials is available upon request.
- Colours available: Terracotta, Black and Buff.

## Ventilation Requirements

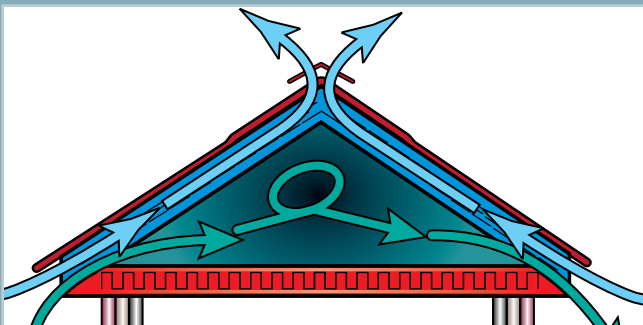
### Why do we need to ventilate roofs?

In today's age of sealed buildings, to prevent heat loss and increase product efficiencies, a build up of water vapour and condensation can occur in the roof space. This can lead to rot and mould which will build up over time and can cause serious and costly damage to the roof structure.

To combat this, Calder has introduced the Caldervent range of roof ventilation systems. The Eaves system ensures adequate roof ventilation at all eaves levels. The dual use Ridge and Hip system ensures escape of water vapour at Ridge and/or Hip levels. These products, if installed as manufacturers instructions and recommendations, should ensure a correct and efficient airflow into and out of the roof space.

(On complex and single pitched roofs, slate/ridge vents may also be required).

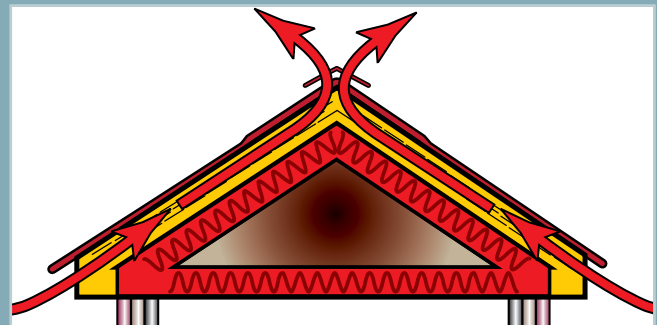
### Cold Roof - Standard Duo-Pitch Roof 15° pitch and above



**Cold Roof** with insulation at ceiling level

5mm ventilation at the ridge plus 10mm continuous opening at the eaves.

### Warm Roof - Duo-Pitch Roof, with ceiling and insulation inclined



**Warm Roof** with insulation at roof level

5mm ventilation at the ridge plus 25mm continuous opening at the eaves

# Roof Ventilation Range

## Caldervent Ridge and Hip System

An all-in-one system containing a vapour-permeable membrane that provides a water-resistant and fully windtight ridge and hip ventilation system for slate. Lightweight, safe and easy to handle, Caldervent ridge & hip is installed in one simple 'roll out' operation, saving man hours and reducing costs.



### Contents of Pack:

- 1 x 6m x 310mm Caldervent Ridge Roll. (1)
- 11 Batten Straps. (2)
- 13 Ridge Union/Seals. (3)
- 13 Screws/Washers. (4)  
13 Clamping Plates.
- Full Fitting Instructions.

### Main Benefits:

- All-in-one kit to cover 6m of ridge/hip.
- Universal: suitable for natural and man-made slate profiles.
- No mortar required.
- Quick and easy to install – no special tools required.
- Vapour permeable.
- Water and wind resistant.
- Self-adhesive butyl strip provides a permanent strong bond.
- Anthracite edges blend in with the roof.
- Provides equivalent of 5mm continuous opening at the ridge.

### Guarantee:

Caldervent offers a 10 year guarantee on all of the components in this system.



N.B. Caldervent Ridge/Hip System can only be used on Plain Angle Ridge Tiles.  
Consult Calder reference Dry Ridge requirements on Capped Angle Ridge Tiles.



# Roof Ventilation Range

## Caldervent Eaves System

A complete 6m pack comprising of Fascia vents, Underlay support trays and a Roll-out rafter tray for eaves ventilation over the fascia.



### Contents of Pack:

- 1 x 6m x 300mm Caldervent Rafter Roll. (1)
- 6 Fascia Vent Strips - optional 10mm or 25mm. (2)
- 10 Underlay Support Trays - 600mm long x 265mm wide. (3)
- Full Fitting Instructions.

### Main Benefits:

- Fast & simple to fit.
- All-in-one kit to cover 6m of eaves.
- For new build or re-roofing situations.
- For rafter centres up to 600mm wide.
- Provides a clear ventilation channel above the insulation.
- Prevents felt ponding behind the gutter.
- Lightweight and durable.
- Complies fully with relevant Building Regulations and British Standards.
- Provides equivalent of a continuous 10mm or 25mm opening at eaves level.

### Guarantee:

Caldervent offers a 10 year guarantee on all of the components in this kit.



Calder can also supply an 'Economy eaves protector / underlay support tray' in separate packs where necessary.

N.B. Caldervent Eaves System can be used with both Plain Angle and Capped Angle Ridge applications.

# Liquid Solutions

## Calderflex High Build Waterproof Roof Coating

A high quality solvent acrylic based coating which gives a roof a long-term waterproofing protection with added fibres that interlace to cover up small gaps or cracks. Supplied ready to use giving instant waterproof protection.



### Main Benefits:

- Ready to use.
- Single coating application.
- Simple application by brush or squeegee.
- Fibre reinforced coating to bridge gaps and cracks.
- Excellent adhesion and durability.
- Instant waterproof protection.
- Can be applied in damp weather conditions.
- Colour Range: Standard Colour Grey. Also available upon request Black and Solar Reflective White.
- Sizes: Standard size 5kg tin. Also available upon request 2.5kg tin and 20kg drum.
- Spreading rate 1kg per m<sup>2</sup>.
- Use as a patch repair or complete re-roof.
- Longer life than any bituminous based roof coating.

**Calderflex Roof Coating Data sheet – supplied on request.**

**N.B.** For previously coated substrates, adhesion and compatibility checks should be tested prior to application of the Calderflex.

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## Calderflex Roof Primer

For porous surfaces, ie concrete and asbestos sheet, should be suitably primed before application of the Calderflex High Build.

### Main Benefits:

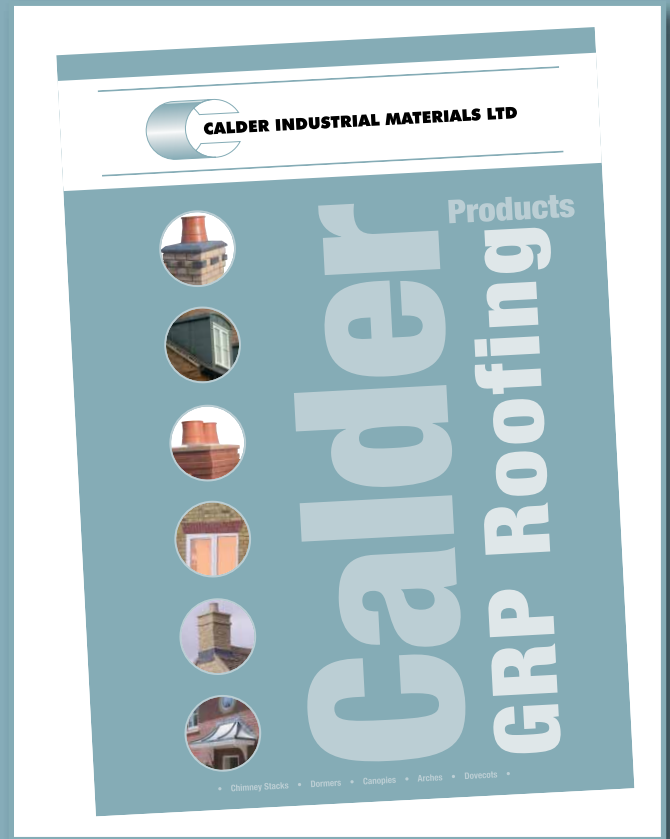
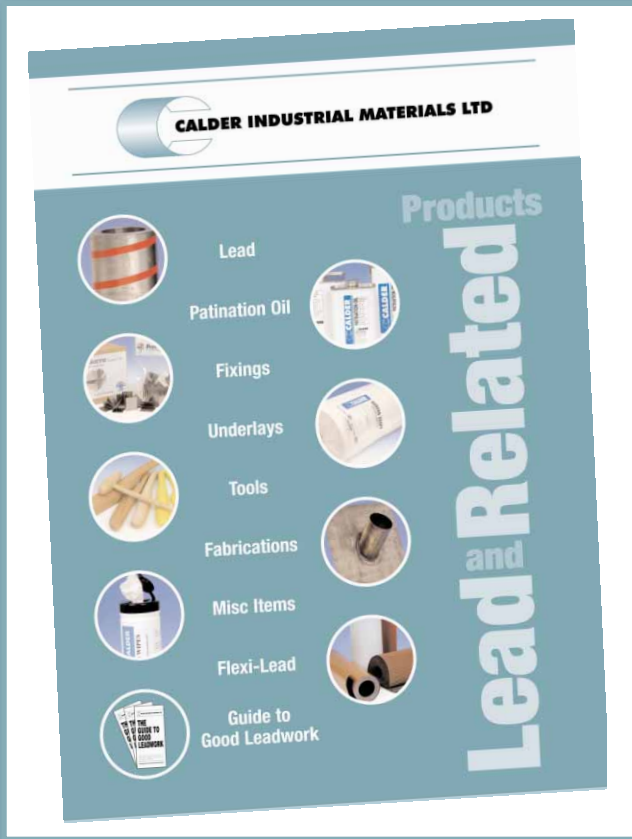
- Simple application by brush, roller or spray.
- One-coat solvent based application.
- Quick drying time.
- Excellent adhesion to porous surfaces.
- Durable on roofs and gutters.
- Spreading rate up to 10m<sup>2</sup> per litre dependent on absorbency.
- Primer is white only. Standard size is 5ltr tin. Also available upon request is 20ltr drum.

**Calderflex Roof Coating Data sheet – supplied on request.**

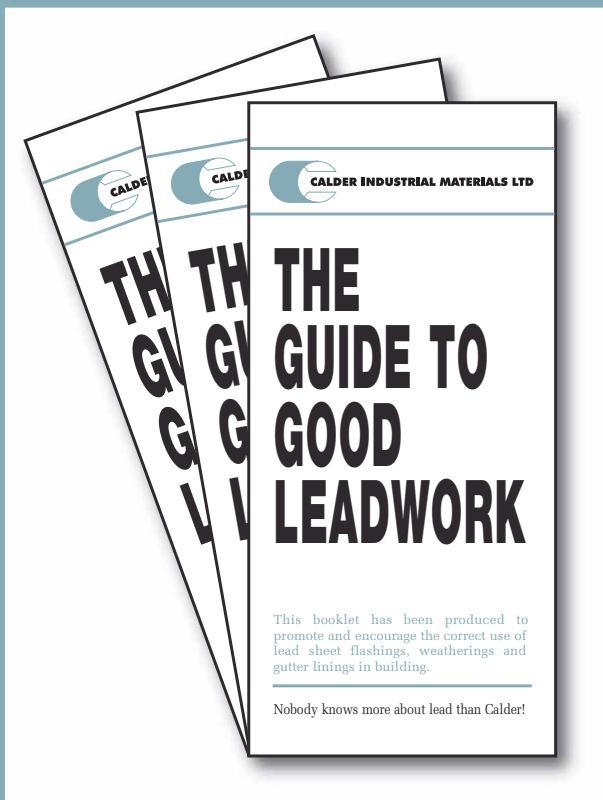


# Information

Also available from Calder



Comprehensive brochures are available on request



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EMS 68146



Calder is an Associate Member of the LCA. It is also a founder member of the Lead Sheet Association, providing the industry standards to ensure that Lead continues to be specified confidently by architects and designers.

**Produced by Calder Industrial Materials Limited**



**A Calder Group Company**