

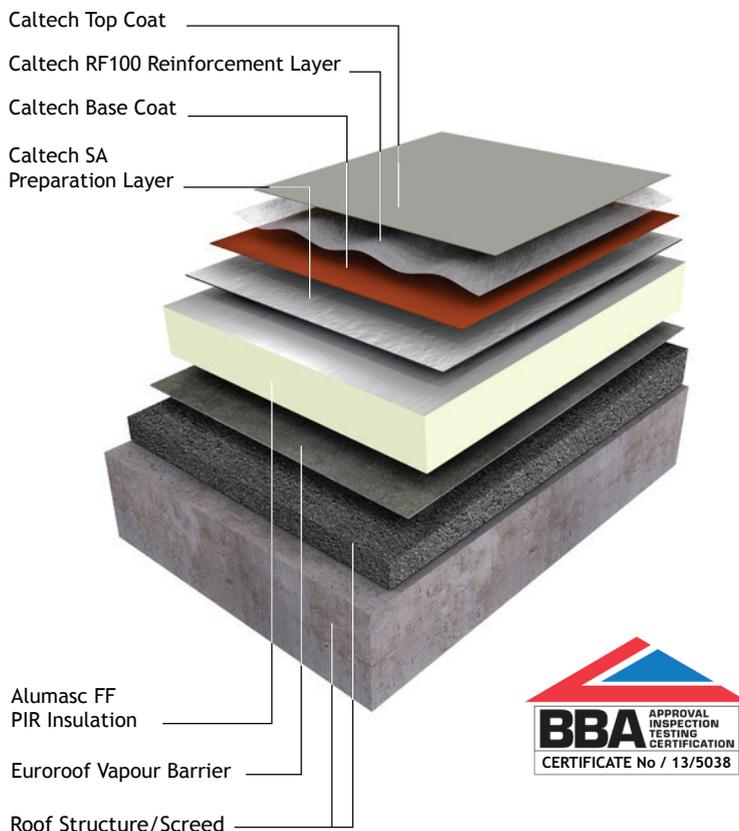
## Cold-Applied Liquid Polyurethane Warm Roof

### ✓ When to Specify

The Eurorooft Caltech cold-applied liquid waterproofing warm roof system provides a seamless elastomeric membrane over rigid flat or tapered insulation, ensuring long-term waterproof integrity and thermal values in accordance with current regulations.

## eurorooft

roofing systems



### Warranties

Alumasc offers a comprehensive range of warranty options. Installed exclusively by Caltech Registered Contractors and underpinned by Alumasc's extensive project support service, Alumasc warranties cover both product and installation. Independent insurance backed latent product defect warranties are also available through FSA licensed brokers. Warranty periods for Eurorooft Caltech are up to 25 years.

### Key Features

#### Lifespan

Eurorooft Caltech systems have BBA accreditation for a typical life expectancy of 25 years. Systems can be tailored to suit specific guarantee and surface finish requirements.

#### Durability

Eurorooft Caltech is reinforced with a chopped strand emulsion bound fibreglass fabric to ensure excellent mechanical properties and dimensional stability, maximising durability.

#### Performance

Eurorooft Caltech is a cold-applied liquid polyurethane, with a high solids content, providing a seamless durable waterproof membrane over rigid polyisocyanurate thermal insulation (tapered to falls or uniform thickness) to achieve thermal values and drainage falls in accordance with current Building Regulations and Codes of Practice.

#### Quality

Eurorooft Caltech's manufacturing process is regularly independently assessed by the BBA, ensuring a consistently high performance product.

#### Versatility

The cold-applied liquid nature of the Eurorooft Caltech system allows application to complex or clustered details and in areas of difficult or restricted access. Detail work can be executed first, enabling works to be completed out of sequence where necessary.

#### Surfacing

Eurorooft Caltech has a smooth light grey mid-sheen finish. Other colours are available to order. Aluminium oxide grit granules can be incorporated within an additional layer of Caltech top coat to form an anti-slip surface where required.

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### Application

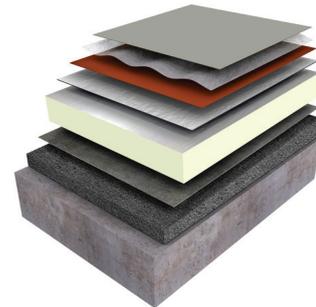
1. Clean and prepare the structural deck to receive a new waterproofing system, and apply the appropriate primer, where required, as specified.
2. Install an Alumasc recommended vapour check or barrier by method of application as specified, ensuring minimum 100mm side laps and 150mm end laps.
3. Install Alumasc FF rigid polyisocyanurate insulation in Alumasc PU Insulation Adhesive at the specified coverage rate.
4. Install Caltech SA Preparation Layer directly to the Alumasc FF insulation.
5. To suitably cleaned and prepared penetrations, drainage outlets and upstands etc dress the Caltech system by at least 150mm above the finished roof surface. Seal the top of the upstand with the appropriate trim or PU sealant etc.
6. Install one coat of Caltech Fibreforce to all upstands, protrusions and hard edges at a rate of 1kg/m<sup>2</sup> (25 year systems only).
7. Detail work is normally executed prior to the application of the main field area. Steps 8 - 13 below apply to both.
8. Thoroughly mix the Caltech Base Coat and apply to the preparation layer and upstands using a roller at a minimum coverage of 0.75 litres/m<sup>2</sup>.
9. Whilst the Caltech Base Coat is wet, embed the Caltech RF100 fibreglass reinforcement fabric and roll until the mat is completely embedded and saturated with Caltech. Overlaps in the reinforcement must be a minimum of 50mm.
10. Check the coating for pinholes and exposed reinforcement and apply further Caltech Base Coat if and where required. Caltech® Base Coat is touch dry within 4 hours depending upon ambient conditions. Always allow the base coat to dry for at least 8 hours fully before applying the top coat.
11. Apply the Caltech light grey Top Coat. Thoroughly mix and apply on the clean, dry fully cured base coat at a rate of 0.75 litre/m<sup>2</sup> for 15 year systems and two coats of 0.63 litre/m<sup>2</sup> for 25 year systems. Ensure the top coat has fully cured before allowing pedestrian or other traffic.
12. Note that application rates can vary depending upon the system being installed and the porosity and roughness of the substrate.
13. For two layer Caltech Top Coat systems, use a contrasting colour (eg. dark grey) for the first coat.
14. Anti-slip walkways can be created by casting aluminium oxide grit into a further layer of Caltech Top Coat applied at 0.25 litre/m<sup>2</sup>.

**NB:** Eurorroof Caltech waterproofing systems are exclusively installed by a nationwide network of Eurorroof Caltech Registered Contractors.

*The company pursues a policy of constant product development and information contained in this publication is therefore subject to change without notice.  
The customer is responsible for ensuring that each product is fit for its intended purpose and that the conditions for use are suitable. All quoted data is nominal and subject to production tolerances.*

### System Components

- Eurorroof Caltech is a single component quick-curing elastomeric polyurethane system, cold-applied in two or more layers to the Caltech SA Preparation Layer membrane, forming a seamless elastomeric waterproofing, incorporating a 100g/m<sup>2</sup> chopped strand fibreglass reinforcement.
- Caltech SA Preparation Layer is an aluminium surfaced, glass/polyester reinforced, self adhesive preparation layer.
- Alumasc FF is a CFC- and HCFC-free polyisocyanurate thermal insulation with aluminium facing to both faces and is supplied in 1000 x 1200mm boards and a range of thicknesses to suit the required thermal value.
- Alumasc vapour control layers: a range of self-adhered, thermo-adhered, torch-applied and bitumen bonded vapour control layers offer a suitable installation method for all situations.



### Technical Support

Alumasc Technical Services provide an extensive project support service that includes site surveys, project specifications, performance calculations (e.g. U-values, condensation risk analysis), CAD detail drawings and general technical advice.

Contact Alumasc Technical Services via:

☎ +44 (0) 1744 648400

✉ [roofing@alumasc-exteriors.co.uk](mailto:roofing@alumasc-exteriors.co.uk)

Online resources are available on our website or via the embedded links below:

#### Web Links

- 📄 [Brochures & Datasheets](#)
- 📄 [NBS Specifications](#)
- 📄 [CAD Drawings for typical details](#)

[www.alumascroofing.co.uk](http://www.alumascroofing.co.uk)