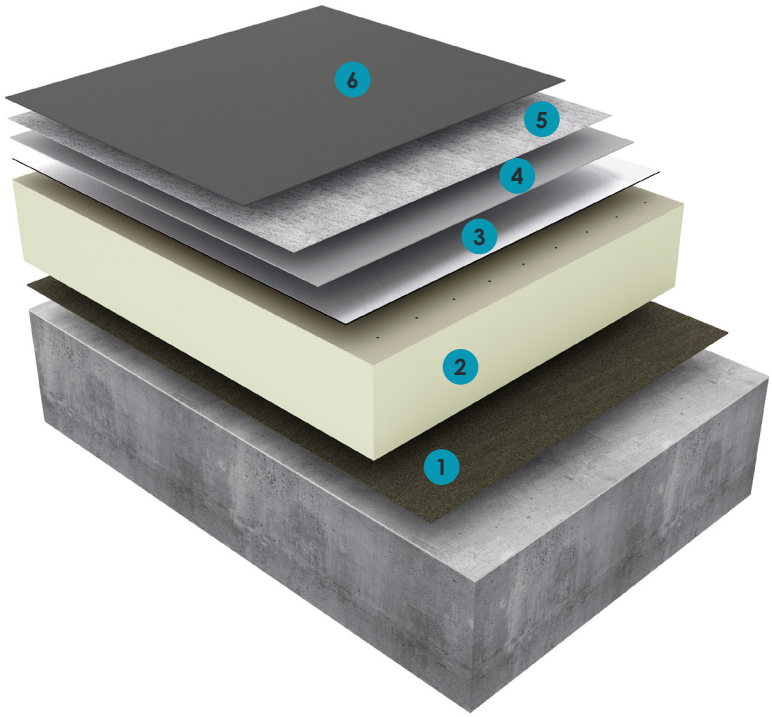
CALTECH FCP

The Caltech FCP system is a cold applied, reinforced polyester hybrid waterproofing system for roofs, balconies and terraces. Installed using a multi-coat application with embedded glass fibre reinforcement, the system employs a catalyst-controlled cure that delivers consistent curing performance and reduces reliance on ambient temperature and humidity.

The system includes primers, air and vapour control layers (AVCL), warm and non-combustible thermal insulation options, and ancillary components.



Typical System Build-Up

Warm Roof Assembly

6. Caltech FCP top coat*
5. Caltech FCP 225 GSM Reinforcement
4. Caltech FCP embedment coat*
3. Caltech Preparation Layer

   Euroroof SA Primer
2. Alumasc GTF PIR Insulation or Class A fire rated alternative

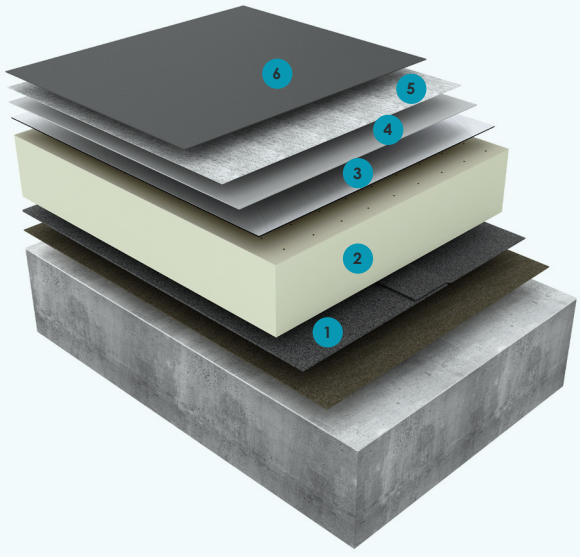
   Euroroof PU Insulation Adhesive
1. Air & Vapour Control Layer, type according to substrate

   Alumasc Primer, type according to AVCL

Warranties

Alumasc offers single-point warranty options for up to 25 years. Installed exclusively by Registered Contractors and underpinned by Alumasc's extensive project support service. Warranties cover product, workmanship, and design.

Other System Build-Up Options



Insulated Overlay of Existing Waterproofing

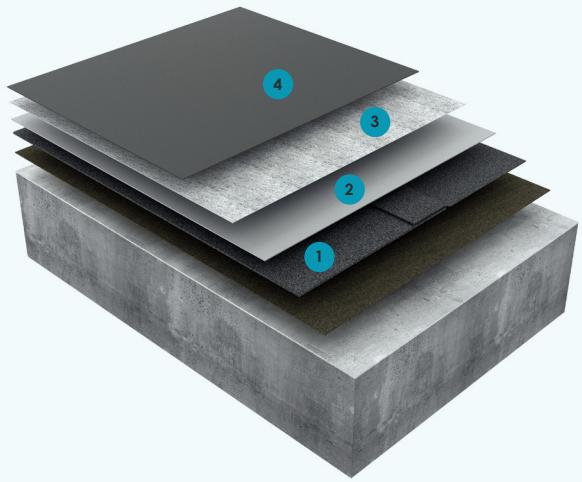
6. Caltech FCP top coat*
5. Caltech FCP 225 GSM Reinforcement
4. Caltech FCP embedment coat*
3. Caltech Preparation Layer

   Euroroof SA Primer
2. Alumasc GTF PIR Insulation or Class A fire rated alternative

   Euroroof PU Insulation Adhesive
1. Existing waterproofing (AVCL subject to condition)

**Coverage rates vary according to warranty term and/or substrate condition*

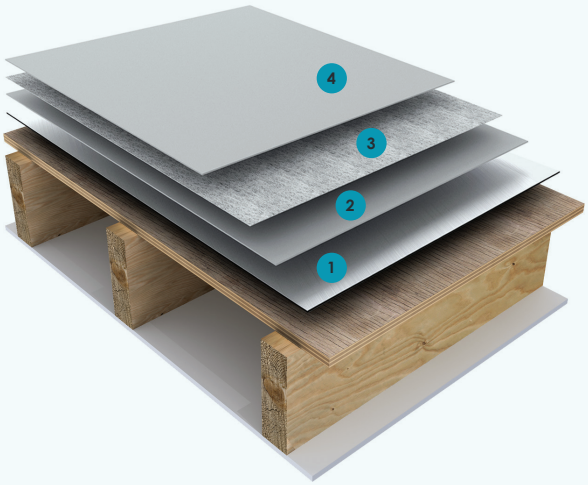
Other System Build-Up Options



Cold Overlay of Existing Waterproofing

4. Caltech FCP top coat*
3. Caltech FCP 225 GSM Reinforcement
2. Caltech FCP embedment coat*

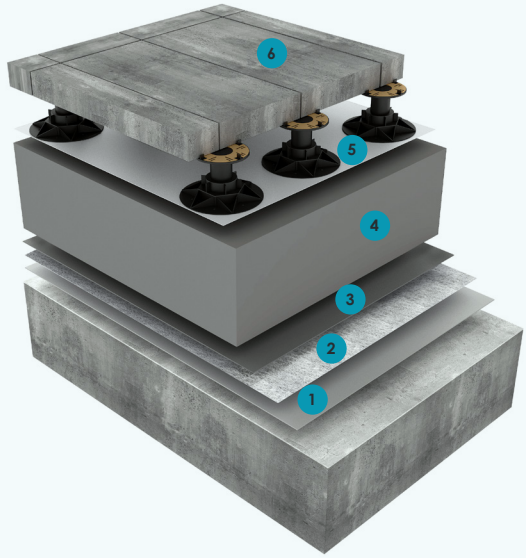
   Caltech FCP Universal Primer
1. Existing waterproofing



Cold Application to Plywood

4. Caltech FCP top coat*
3. Caltech FCP 225 GSM Reinforcement
2. Caltech FCP embedment coat*
1. Caltech Preparation Layer

   Euroroof SA Primer



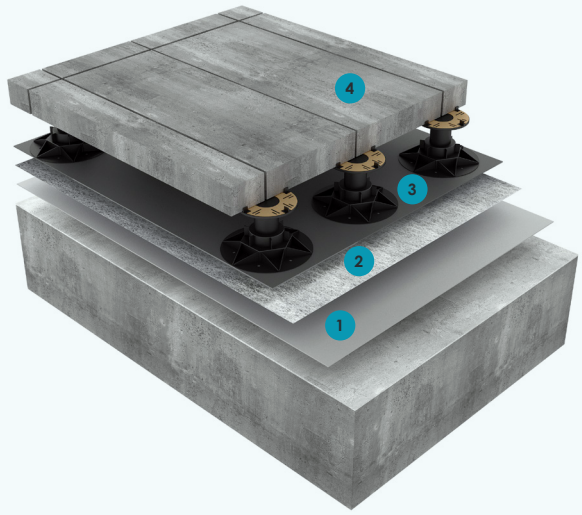
Inverted Roof

6. Surface finishes of choice
5. Alumasc LO-k Water Flow Reducing Layer (WFRL)
4. Alumasc XPS Insulation or Class A fire rated alternative
3. Caltech FCP top coat*
2. Caltech FCP 225 GSM Reinforcement
1. Caltech FCP embedment coat*

   Caltech FCP Universal Primer

**Coverage rates vary according to warranty term and/or substrate condition*

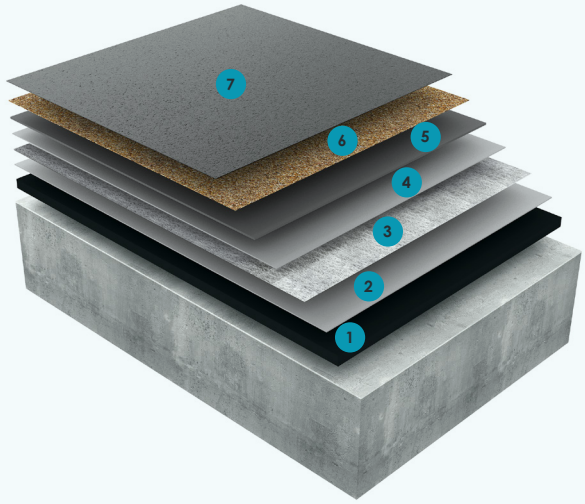
Other System Build-Up Options



Cold Buried Application with Finishes

4. Surface finishes of choice
3. Caltech FCP top coat*
2. Caltech FCP 225 GSM Reinforcement
1. Caltech FCP embedment coat*

   Caltech FCP Universal Primer



Cold Balcony System

7. Caltech FCP Finish
6. Caltech Quartz - broadcasted into wet coat
5. Caltech FCP HD Coat
4. Caltech FCP top coat*

3 Caltech FCP 225 GSM Reinforcement

2. Caltech FCP embedment coat*

   Alumasc Primer, type according to substrate

1. Existing waterproofing/substrate

**Coverage rates vary according to warranty term and/or substrate condition*

When to Specify

Caltech FCP provides a versatile waterproofing solution suitable for a wide range of roof constructions, project types and applications, including:

- New build
- Refurbishment
- Cold roofs
- Warm roofs
- Inverted roofs
- Balconies and terraces
- Overlay of existing waterproofing systems

Durability

BBA certified, Caltech FCP provides long-term waterproofing performance and, when installed on stable substrates and regularly maintained, will provide a service life in excess of 30 years.

Approvals

- BBA Certificate No. 22/5988
- Classified as B_{ROOF}(t4) to BS EN 13501-5 within approved and tested system assemblies

Technical Support

Alumasc Technical Services can advise on all aspects of product selection, specification and integration of Alumasc systems into any building design. For technical support, contact the team at technical@alumascroofing.com.