gcp applied technologies

SOLARSHIELD™

Textured aluminium sheet combined with a self-adhesive rubber/bitumen compound suitable for exposed flashings and flat deck roof membranes

Product Description

SOLARSHIELD™ is a robust, cold-applied, self-adhesive, heavily textured aluminium membrane which can be used as a conformable solar reflective flashing or protection for exposed roofing membranes.

Applications

Solarshield comprises a thick aluminium sheet which is heavily embossed to accommodate both transverse and longitudinal movement. A thick, self-adhesive rubber/bitumen compound is laminated to the underside to provide adhesion to primed substrates and all membranes from GCP Applied Technologies.

Product Advantages

- Aluminum sheet — provides attractive, solar reflective surface
- High purity aluminium — provides effective external protection against aggressive environments and ozone attack
- No naked flame system — no flame hazard
- Self-adhesive rubberised asphalt
  - Continuity ensured at overlaps
  - Unique thick rubber/bitumen formulation allows healing of small puncture
  - Provides excellent adhesion to substrate layer
- Heavily embossed surface — allows membrane to accommodate transverse and longitudinal movement without rupturing
- Compatibility — suitable for use with all self-adhesive membrane systems from GCP Applied Technologies
- Easily worked
  - Highly conformable, can be cut and bent to shape on site
  - Simple, reliable, low labour cost with the benefit of site-programmed installation

It is supplied to sites in rolls 1m wide x 10m long, 1.5mm thick overall and is normally unrolled and cut to size before applying sticky side down on to primed concrete or membrane surfaces to which it bonds firmly.
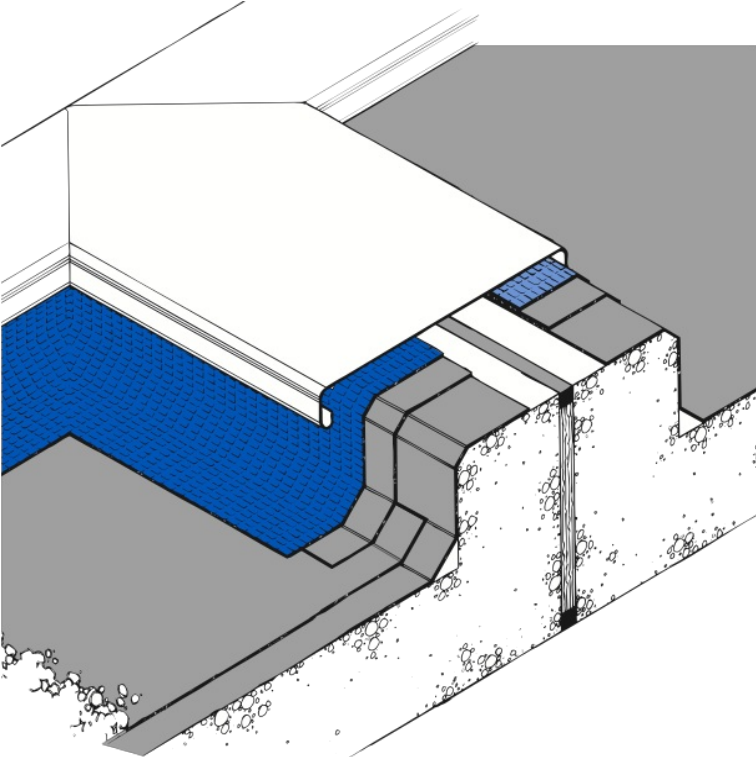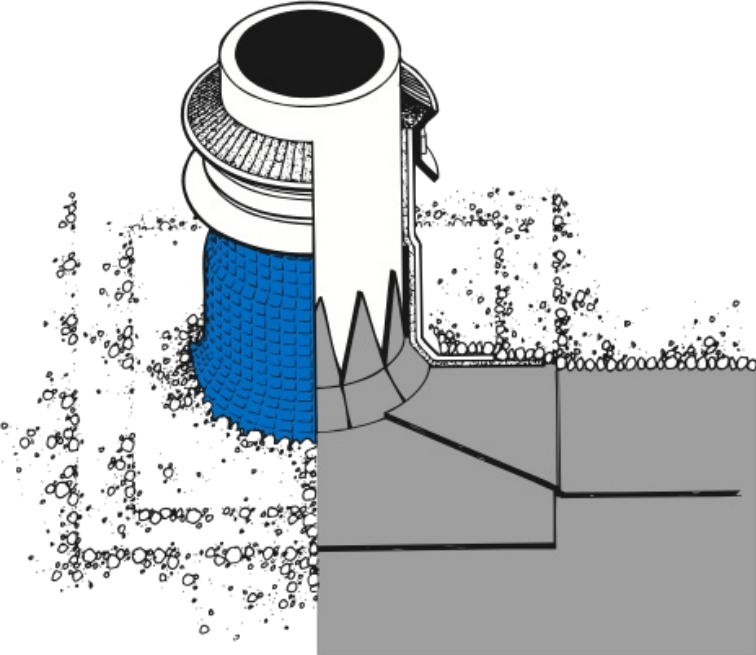
Continuity is achieved by overlapping 75mm on sides and ends and well rolling the joint to promote bonding.

Installation

The installation of the Solarshield should not be carried out at temperatures below -5°C. At air temperatures below 4°C measures should be taken to ensure that all surfaces are free from ice, frost or condensation.

When Solarshield is used as a flashing, it should be pre-measured to size before applying to ensure that it is terminated into a primed chase or securely fastened by a cover strip to prevent moisture by-passing the waterproofing.

A hot climate grade (HC) is available to suit higher ambient temperatures.

Supply

Pack Size	1m x 10m roll
Gross Weight	22kg
Storage	Dry conditions below +30ºC

The underlying roof waterproofing membrane must be clean and surface dry before applying the self-adhesive Solarshield. When used as a flashing, pre-measure the extent of the Solarshield to accurately follow the roof profile to the termination chase, or mark out the free board height if metal counter flashings are used to securely fasten the leading edges.

Pre-bending or shaping the Solarshield to the correct profile before removing the silicone paper will assist with the application.

Solarshield should be laid by peeling back the protective silicone release paper and carefully offering the adhesive face into position on the prepared surface. Cut and trim carefully around internal and external corners to form an effective protection flashing to the waterproofing membrane beneath. The material should be brushed on to the surface to ensure good initial bond. Adjacent widths should be aligned and overlapped 75mm minimum at side and ends, and well rolled with a firm pressure using a Bituthene Lap Roller to ensure complete adhesion and continuity between the layers. Laps should be staggered between layers to prevent a build-up of layers.

In cold weather conditions the application of warmth will aid adhesion.

Health and Safety

Refer to relevant Material Health and Safety data sheets.

Specification

Solarshield, preformed, self-adhesive, aluminium solar reflective flashing membrane shall be laid and terminated as shown on the working drawings with well rolled 75mm overlaps, laid strictly in accordance with the manufacturer's instructions and supplied by GCP Applied Technologies. For further information, contact your local GCP representative.

Technical Services

For assistance with working drawings for projects and additional technical advice, please contact GCP Applied Technologies.

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