



ALUMINIUM RAINWATER SYSTEMS

Technical Product Datasheet Extruded Aluminium Capping Systems

Wall Capping is now recognised as the most cost effective means of protecting and weather proofing existing structures. The Capping systems are manufactured to suit each individual wall, but we do offer standard sizes, with two types of bracket.

To Suit

- 200mm wall width, 300mm wall width, 400mm wall width,
- 500mm wall width, 600mm wall width.
- Bespoke Sizes

General

Capping Jointing

Internal butt straps secured using EPDM tape with a 2/3mm expansion joint between each coping.

Galvanized steel brackets, HD self drill self tap fastener 5.5mm gauge x 38mm long through all pre-punched holes into galvanized brackets at 1 m centres.

Colour Options

Stormguard Aluminum rainwater products are supplied in plain (mill) finish or in a range of factory applied polyester powder coatings. Colours with a BS or RAL number can be supplied.

Architectural approved coater of Dupont, Akzo Nobel, Syntha Pulvin, IGP & Inver paint systems, ISO accredited to 9001:2008

Manufacture

Extruded Aluminium rainwater profiles are extruded from alloy 6063 T4 T5 T6 to BS EN 775-9-2001. Aluminium sheet is manufactured from aluminium alloy SIC H4 to BS 485- 1:1994. The pressed components are produced from sheet manufactured from SIC H4 BS EN 485-1:1994. Aluminium castings are produced from aluminium alloy to BS EN 1706:1998..

Durability

Aluminium gutter systems have a low maintenance life in excess of 40 years in rural and suburban conditions, and in excess of 25 years in industrial and marine conditions.

Compatibility

Direct aluminium contact with dissimilar metals or with materials containing lime or cement should be avoided. The polyester coating is insulation but a liberal coating of bitumen will be

an additional safety factor. The use of aluminium in conjunction with copper roofs, cladding or flashings should be avoided.

Contact Stormguard Rainwater Systems

Technical Services for advice where heavily polluted atmospheres or marine conditions are involved for advice on material choice.

Fire Rating

Non-combustible to BS 476, Part 4: 1970 (1984). Melting temperature for aluminium is approximately 660°C.

Lightning Conductivity

The need for a lightning protection system is a decision to be made between the architect, the builder and the lightning protection engineer. This should be based on the risk factor as calculated in BS 6651:1999. When such a system is chosen for a building all metal gutters should be cross-bonded into it. Both economy and practicality indicate that the eaves gutter can be used in place of an eaves conductor tape by use of the Stormguard Rainwater Lightning Link.

Maintenance - Routine Inspection

- Regularly clean out rainwater heads and gutters and ensure that downpipes are clear at all times.
- Check that joints and fixings are secure by periodic inspection, not less than twice a year, and preferably at the beginning of Autumn and again at the end of Winter.
- Brush down unpainted surfaces lightly to inspect if required.
- Plain finish goods will develop a natural grey aluminium oxide coating which forms a hard protective layer, preventing additional oxidization.
- Even with a well fixed installation, ladders should not be rested against the gutters.
- Clean polyester coated surfaces by regularly washing down with a warm detergent solution, and maintain paintwork in good condition. Do not clean with caustic or abrasive materials. In aggressive atmospheres such as marine environments and industrial areas BS 6496:1984 requires this cleaning to be carried out at up to three month intervals to maintain optimum appearance and durability.
- Lightning linkage fixings should be tested regularly in accordance with the specialist electrical maintenance instructions.

Technical Support

Technical advice is available from Stormguard Rainwater Systems Technical Services via:

Telephone +44 (0)1625 665096

Facsimile +44 (0)1625 665097

Email sales@stormguardrainwater.co.uk

Stormguard Rainwater Systems pursues a policy of constant product development and information contained within this datasheet is therefore subject to change without notice. The customer is responsible for ensuring that each product is fit for its intended purpose