



ALUMINIUM RAINWATER SYSTEMS

Technical Product Datasheet

Extruded Aluminium Fascia & Soffit Systems

'Eclipse' Fascia and Soffit systems are designed to incorporate a professionally finished, aesthetic appearance with very low maintenance and high vandal resistant features. This is achieved by a combination of secret fixings, heavy gauge aluminium extrusions and pressings, polyester powder coated to BS 6496. Added to the inherent architectural features is the suitability for exposed situations where high wind loadings can be encountered, e.g. airports, coastal areas and high buildings.

'Eclipse' Soffit systems are suitable for both internal and external applications with widths giving three effective widths of 100mm. The 100mm wide plank is designed to give a tongue and groove effect whilst the 100mm wide plank can give either a butt joint finish at 90mm wide or a delicate shadowline at 10mm wide. There is also a full range of trims and sections available to suit almost any application.

Soffit

- **100mm wide Soffit Planks, Starter Trim, Closing trim, Corner trim.**

Fascia

- **All Bespoke Sizes**

General

Colour Options

Stormguard Aluminium 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:

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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