

ALUMINIUM GUTTER SYSTEMS

TECHNICAL DATASHEET



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TECHNICAL DATA SHEET



OVERVIEW:

A range of traditionally designed, aluminium gutter profiles with simple spigot joints, wet sealed and bolted with an extensive range of fixing options.

DESCRIPTION & SIZES:

NIMBUS - Profiled Aluminium Boxed Gutters

The Nimbus range of box gutters are made from profiled aluminium sheet. The range is available in five widths, although non-standard sizes can also be fabricated to customer requirements. Nimbus gutters are suitable for direct fix at 600mm centres or fascia bracket fixing at maximum 700mm centres. It is recommended that when using fascia brackets additional support is introduced by using direct fixing. This especially advised when using the larger profile sizes. Expansion co-efficients are incorporated into the gutter design. Additional fixings are also recommended near cross bracings.

Lengths: 3m / 2.5m / 2m / 1m / 0.5m Sizes: 100 x 75mm / 125 x 100mm / 150 x 100mm / 150mm / 200 x 150mm

ALTOCUMULUS - Beaded Half Round Extruded Aluminium Gutters

The Altocumulus range of extruded aluminium gutters uses the beading along both top edges to enhance the standard Cumulus half round profile. Altocumulus gutters also use jointing clips instead of the sockets of the Cumulus system.

Lengths: 3m / 2.5m / 2m / 1m / 0.5m Sizes: 112mm / 125mm / 150mm

ALTOCUMULUS - Beaded Half Round Deep Flow Extruded Gutters

The Deep Flow gutter system is recognised as one of the most versatile gutter systems available. It combines high capacity with aesthetic yet practical features that benefit commercial industrial and domestic applications.

Lengths: 3m / 2.5m / 2m / 1m / 0.5m Size: 125 x 100mm

STRATUS - Moulded Ogee Extruded Aluminium Gutters

The Stratus profile is an extruded aluminium copy of one of the oldest gutter designs (Pattern 46). Its high flow capacity makes it also ideal for large commercial and industrial buildings. Unlike the Cirrus Victorian Ogee profile, the Stratus range does not utilise sockets and spigots, but internal joint connectors to extend the gutter run.

Lengths: 3m / 2.5m / 2m / 1m / 0.5m Sizes: 100 x 75mm / 125 x 100mm / 150 x 100mm / 200 x 150mm

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Manufacturing in Britain

GUTTER JOINTING:

Clean and dry all jointing areas with a low alkaline degreasing agent. Apply a generous bead of low modulus translucent silicone sealant (approved to BS 5889 or similar) to the internal base and sides of the gutter profile. Place the connecting collar in position and align with corresponding fixing bolt holes. Tighten the nuts evenly starting at the base of the gutter.

The silicone will be compressed and displaced into the bolt holes and between the gutter and the connecting collar. Clean away excess silicone and repeat the same procedure on all joints and fittings.

FINISH:

Mill finish or polyester powder coated.

COLOUR:

Polyester powder coated colour to a standard RAL, BS 4800 or BS 381 C range by Akzo Nobel, applied by MAC - a Service First, ISO 9001 approved applicator. Applied to standards indicated in BS 6496.

MATERIAL:

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:

MAC 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 use of aluminium in conjunction with copper roofs, cladding or flashings should also be avoided. Please contact MAC Technical Services for advice on using these materials in heavily polluted or marine environments.

FIRE RATING:

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

MAINTENANCE:

Routine inspections are recommended with particular attention to the following areas:

- Regularly clean out rainwater heads and gutters and ensure that downpipes are clear at all times;
- Check that joints and fixings are secure at least twice each year (preferably at the beginning of Autumn and again at the end of Winter);
- Where necessary, brush down unpainted surfaces lightly in order to inspect;
- Never rest ladders against the gutters, even on well-fixed installations;
- Regularly clean polyester coated surfaces by 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;
- Please note that mill finish goods will develop a natural grey aluminium oxide coating, which forms a hard protective layer, preventing additional oxidization.

ACCESSORIES:

MAC Aluminium Gutter Systems are available with a range of complimentary accessories, including outlets, angles, stop ends, brackets and connector clips. For further details please contact MAC Customer Services or refer to our dedicated Rainwater Catalogue.



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