

Rainwater Drainage Systems

311 TRADITIONAL ALUMINIUM GUTTERS

Gutters and fittings to: BS 8530
 Manufacturer: Marley Alutec, Unit 1 (G-H), Hudson Road,
 Elms Farm Industrial Estate, Bedford MK41 0LZ
 Tel: 01234 359438, Fax: 01234 357199.
 Email: enquiries@marleyalutec.co.uk
 Reference: Traditional Half Round aluminium rainwater system
 Profile: Half Round
 Size: 113 mm
 Outlet Size: 63mmØ
 Type / grade: Marine grade Aluminium alloy to BSEN1559:1997,
 BSEN 1676:1997 and BSEN 1706:1998
 Finish: Polyester powder coated to BS EN 12206
 Colour: Black or Grey
 Functional life expectancy: 50 years
 Jointing: Gutter lengths or fittings are overlapped at the joint with a spigot and socket.
 Slots are provided for fixing using Alutec M6 aluminium bolts with nuts and washers. Seal
 evenly across the joints with Alutec sealant.
 Fixing: Fascia bracket fixed at 915mm centres and at each fitting using Alutec 32mm x No.
 10 round head austenitic stainless steel screws.

EXECUTION

- 600 **PREPARATION specified in this section, ensure that:**
- Below ground drainage is ready to receive rainwater or that the discharge can be dispersed by approved means to prevent damage or disfigurement of the building fabric.
 - Any specified painting of surfaces which will be concealed or inaccessible is completed.
- 605 **INSTALLATION GENERALLY:**
- Install pipework/gutters to ensure the complete discharge of rainwater from the building without leaking.
 - Obtain all components for each type of pipework/guttering from the same manufacturer unless specified otherwise.
 - Provide access fittings and rodding eyes as necessary in convenient locations to permit adequate cleaning and testing of pipework.
 - Avoid contact between dissimilar metals and other materials which would result in electrolytic corrosion.
 - Do not bend plastics or galvanised steel pipes.
 - Adequately protect pipework/gutters from damage and distortion during construction. Fit purpose made temporary caps to prevent ingress of debris. Fit all access covers, cleaning eyes and blanking plates as the work proceeds.
 - Where not specified otherwise use plated, sherardised, galvanised or nonferrous fastenings, suitable for the purpose and background, and compatible with the material being fixed.
- 610 **FIXING AND JOINTING GUTTERS:**
- Fix securely at specified centres and at all joints in gutters, with additional brackets near angles and outlets.
 - Provide for thermal and building movement when fixing and jointing, and ensure that clearances are not reduced as fixing proceeds.
 - Seal as specified to make watertight.
 - Spread jointing compound evenly over jointing face of socket.
 - For gutters with bolted joints, tighten joints in the gutter sole before any other bolts. Fit suitable washers, and spacers to prevent over tightening, unless specified

otherwise.

- Tighten fixing to squeeze out some compound.
- Remove surplus, squeezed out compound and neatly clean off.
- Ensure that roofing underlay is dressed into gutter.

615 **SETTING OUT EAVES GUTTERS**

- Gutters must be installed level or to a fall of 1:600 unless otherwise specified. The gutter should not be positioned at a level which causes rainfall to overshoot the gutter, i.e too low, or where it is damaged by the high velocity impact of sliding snow, i.e too high.
- Position outlets to align with connections to below ground drainage, unless shown otherwise on drawings.

630 **RAINWATER OUTLETS: Ensure that:**

- Outlets are securely fixed before connecting pipework.
- Junctions between outlets and pipework can accommodate all movement in the structure and pipework.

435 **FIXING PIPEWORK:**

- Fix securely at specified centres plumb and/or true to line.
- Make changes in direction of pipe runs only where shown on drawings unless otherwise approved.
- Fix branches and low gradient sections with uniform and adequate falls to drain efficiently.
- Fix externally socketed pipes/fittings with sockets facing upstream.
- Provide additional supports as necessary to support junctions and changes in direction.
- Fix every length of pipe at or close below the socket collar or coupling.
- Provide a load bearing support for vertical pipes at not less than every storey level. Tighten fixings as the work proceeds so that every storey is self supporting and undue weight is not imposed on fixings at the base of the pipe.
- Isolate from structure where passing through walls or floors and sleeve pipes as specified in Section P31.
- Provide for thermal and building movement when fixing and jointing, and ensure that clearances are not reduced as fixing proceeds.
- Fix expansion joint pipe sockets rigidly to the building and elsewhere use fixings that allow the pipe to slide.

650 **JOINTING PIPEWORK/GUTTERS:**

- Joint using materials, fittings and techniques which will make effective and durable connections.
- Joint differing pipework/gutter systems with adaptors recommended by manufacturer(s).
- Cut ends of pipes to be clean and square with burrs and swarf removed. Chamfer pipe ends before inserting into ring seal sockets.
- Ensure that jointing or mating surfaces are clean, and where necessary lubricated, immediately before assembly.
- Form junctions using fittings intended for the purpose ensuring that jointing material does not project into bore of pipes, fittings and appliances.
- Remove surplus flux/solvent/cement/sealant from joints.

675 **COATED PIPEWORK/GUTTERS:**

- Make good to coatings after cutting and any other damage or recoat, as recommended by the manufacturer.