

PART OF THE PBSL GROUP

# **U CAST ALUMINIUM GUTTER** INSTALLATION GUIDE

# WELCOME TO OUR INSTALLATION GUIDE

Designed to emulate traditional cast iron, our Legacy Cast Aluminium Gutters are manufactured from the highest quality materials and are available in various sizes and profiles.

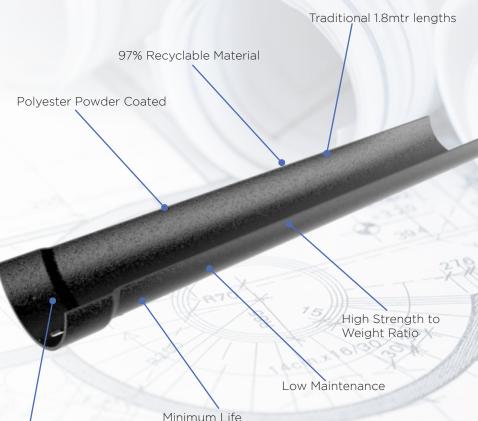
Our guttering is supplied with a polyester powder coating (PPC), in a textured cast iron effect. The gutters come with a "leatherette" finish, but other colours are available as a special order.

A complete range of accessories, in a traditional style, such as angles, outlets, stop ends and brackets, is available.

# BS BS 460:2002+A2:2007 & BS 8530:2010 NON-COMBUSTIBLE CONSTRUCTION MATERIAL Image: Construction material <td

### The Gutter

Cast gutters will often feature the characteristic cast mould and seam imperfections, an aesthetic that is very well suited to traditional and heritage properties.



Traditional Socket

Minimum Life Expectancy of 30 Years

### **Recycling and Sustainability**

Aluminium can be infinitely recycled, only losing less than 3% of its material properties during the recycling process. Recycling also uses 95% less energy than the extraction process! 75% of all aluminium ever produced is still in use today. 92-98% of aluminium from building demolition is recycled.

### Accessories

Any use of sealant must not be carried out in wet weather or in temperatures below 5°C or above 50°C. All joint surfaces must be perfectly clean and dry. Only a low modulus sealant must be used to prevent early failure. Ensure that the gutter joint sockets/spigots are correctly aligned with each other to ensure free thermal movement (3-4mm) within the gutter joint.

Where gutters or pipes are powder-coated, then cut edges should be de-burred and repainted with touch-up paint.

It is important that all fixings are suitable for both the substrate and the load. Therefore, they **must** be of the appropriate size and of a compatible material to ensure no electrolytic corrosion occurs. We recommend that stainless steel screws are used.

Traditional Gutters are fitted together using M6 x 20mm aluminium nut, bolt & washer.

# Setting Out

Gutters may be installed flat (at level) or to a fall of 1:600 (maximum of 1:350) If the surface is flat, make sure that the gutter is set at the correct height at the centre point and use a string line or level to make a series of marks to indicate the correct height along the run length. When trying to achieve a fall the lowest point needs to be the outlet, so mark this position first, followed by the end of the run, and then use a string line to mark regular points of reference.

# **Cutting and Drilling**

Gutter sections may be cut and drilled on-site using standard metalworking tools, however, the use of angle grinders is not recommended. Where gutters or fittings are powder-coated, then cut edges should be de-burred and repainted with touch-up paint (available from PBSL Group).

## Handling and Storage

Gutters, downpipes, and fittings, particularly with polyester powder coat, finish should be handled with care and preferably stored under cover on racks to prevent scratching. Whilst not known to pose any health hazard, it is recommended that protective gloves be worn when handling mill finish aluminium.

All lengths are supplied in a protective polythene wrapping with components similarly wrapped and stored in cardboard boxes. If a PPC product is to be stored outside, cover it with a tarpaulin to protect against rainfall and direct sunlight. Failure to do this may allow water to get trapped inside the protective wrapper and could lead to permanent watermarks on the paint finish. Mill finish items should be stored under cover to avoid uneven oxidization before being fitted.

### Safety

Personal protection equipment (PPE) should be worn at all times when installing cast aluminium guttering

We recommend to wear gloves, protective eye wear, and a dust mask.



CAST ALUMINIUM GUTTER INSTALLATION GUIDE

Fig1 The current recommendation from the Metal Gutter Manufacturers Association (MGMA) is to position gutters as Fig 1. STRAIGHT EDGE

Fig 1 is more resistant to sliding snow than Fig 2.

Fig2 There are certain conditions where a Fig 1 installation might allow water to over shoot the gutter or high wind conditions may allow water to blow behind the gutter.

STRAIGHT EDGE Fig 1 is the preferred option for the majority of the UK, but the decision should be made based on site conditions.

Legacy Cast Aluminium Gutters are fitted using fascia brackets. Buildings without fascias may need a different type of bracketry. PBSL Group offers rise & fall brackets and rafter brackets as options.

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**STEP 1** We advise that you ensure the fixing background (e.g. fascia board) is securely fixed, flat and able to support the weight of the gutter at full capacity and that the roof overhang is correct.

> Start by deciding whether to fit the gutter at a level or with a fall to 1:600. Fit a bracket at each end of a run. Position brackets correctly for an angle or stopend.

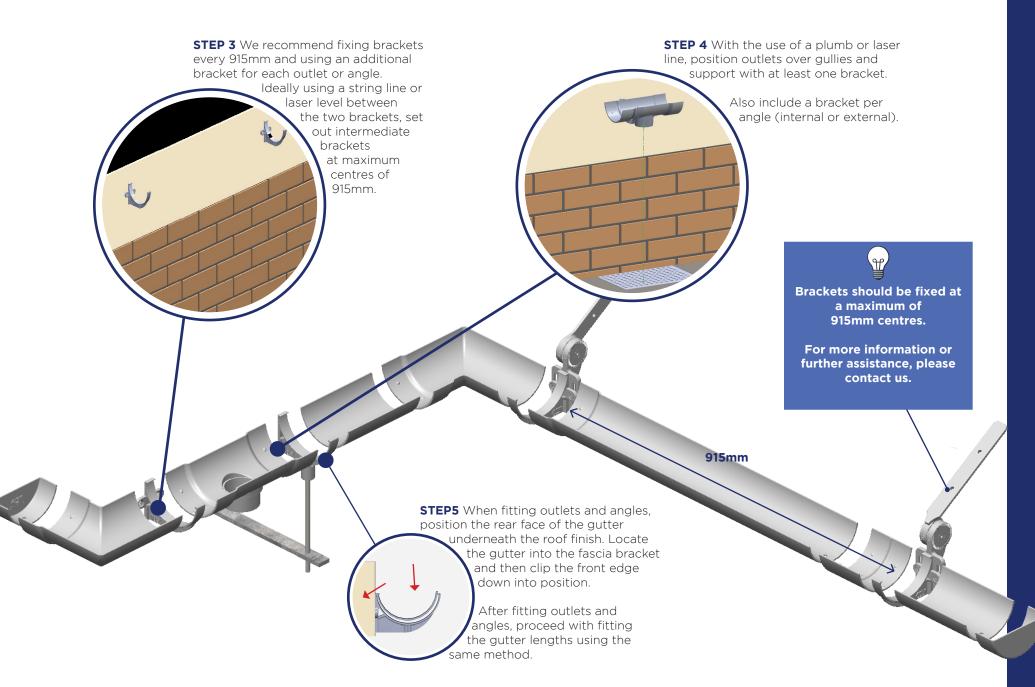
**STEP 2** Image 2 shows the ideal bracket positioning for the angle and bracket to take the gutter length. (Max 150mm from joint).



H Any cut lengths should be de-burred and touched up with touch-up paint sup-

For more information or further assistance, please contact us.

plied prior to installation.



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**STEP 7** Push the bolt through the sole **STEP 6** Ensure that all fixing surfaces of the gutter socket, ensuring that the are clean and dry. slot is filled with sealant. Before applying the nut and wash-Apply 2 x 6mm beads of Arbo er, gently tighten. Low Modulus Sealant into the Do not over-tighten socket end of gutter. Then as this may force place gutter length into the sealant out of sealant/socket. the joint. **STEP 8** Clean off any excess sealant to either side of the joint. Apply additional sealant, as required to the internal face, NIIT only to create a smooth bead. WASHER GUTTER SEALANT Finally, cone-off the exposed bolt stud and nut inside the GUTTER SEALANT gutter with a generous SEALANT application of Arbo Low BOLT Modulus Sealant. Tool off excess silicone around the joint and from external surfaces.

**STEP 9** Ensure a vertical alignment between the drain and the gutter outlet. Adjust the off set to suit the projection. To hold the off set in place, position it away from the outlet and secure the first pipe in place.

> **STEP 10** Arbo Low Modulus Sealant can be applied to the inside of the pipe socket prior to installation. When fitting flushjoint downpipe, sealant can also be applied to the inside of the clip to assist in supporting the pipe. A pipe clip should be fixed directly beneath the pipe socket.

ARP SEALANT

**STEP 11** Additional pipe clips should

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de-burred and touched up

with touch-up paint prior

assistance, please contact us.

to installation. For more

information or further

be fitted at 2m maximum

intervals.

We advise that you ensure the fixing background is in good condition and will support the downpipe and that there are sufficient clips/brackets in place to

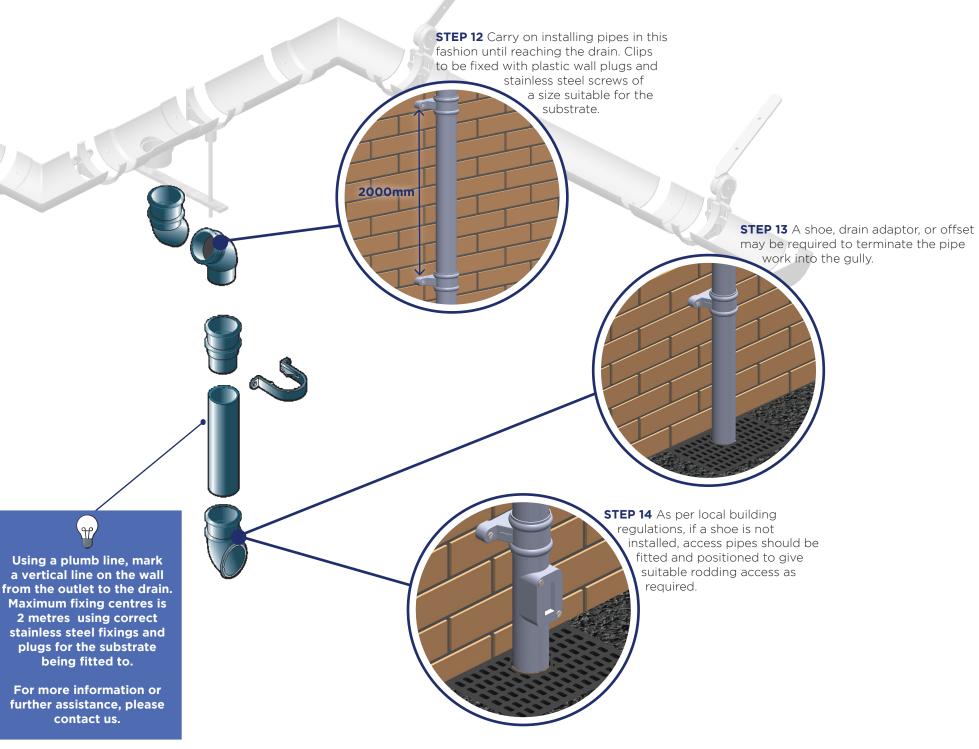
secure the load.

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When fitting downpipes, start from the outlet and work towards the gully. Make sure you have the right combination of offset bends, branches, and pipes to complete the installation. Maximum fixing centres is 2 metres using correct stainless-steel fixings and plugs for the substrate being fitted to.

For more information or further assistance, please contact us.





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