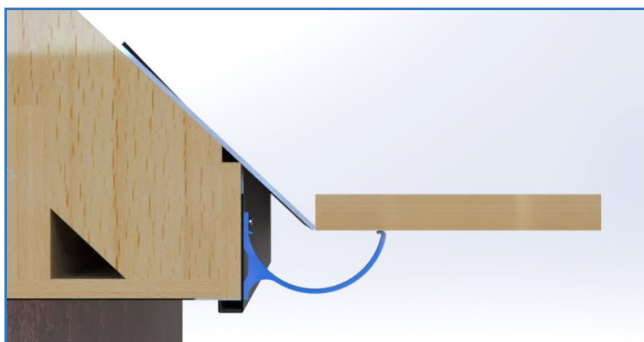


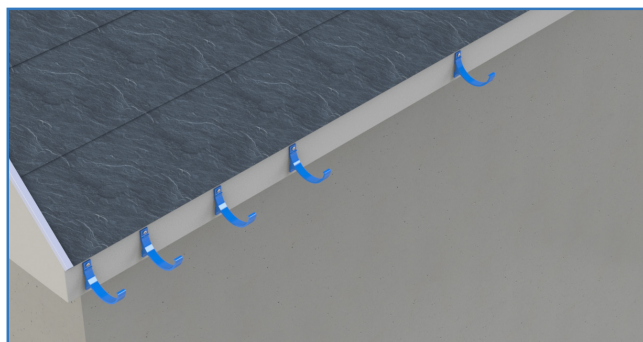


Half Round Guttering

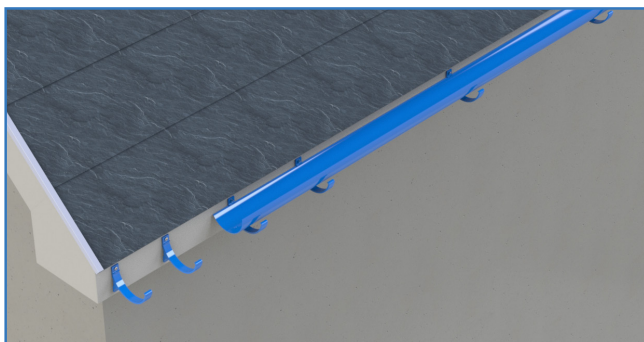
INSTALLATION GUIDE



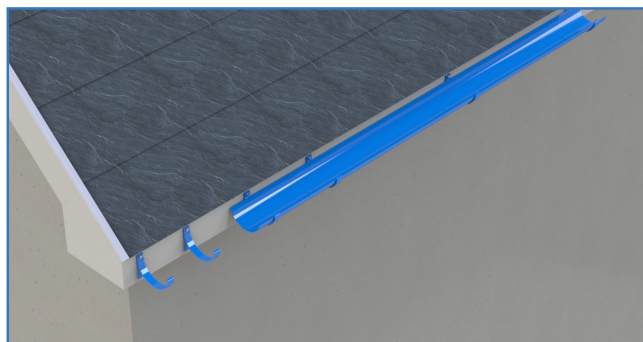
1. Starting at a corner or end, position a spirit level against the lowest edge of a tile or slate and offer up the gutter fascia bracket. Check fascia board alignment and shim where necessary. (See Page 3 for alternative gutter position.)



2. Secure first gutter bracket with 5mm x 50mm stainless steel screws. Fix one screw and set to a string line as required.



3. Using the string line, set out brackets at 750mm to 900mm centres at a 1:600 to 1:1350 (max) fall. Alternatively, set the line as nominally level. Allow for 4no brackets per 3.0m gutter length, 1no per angle and 1no per outlet.

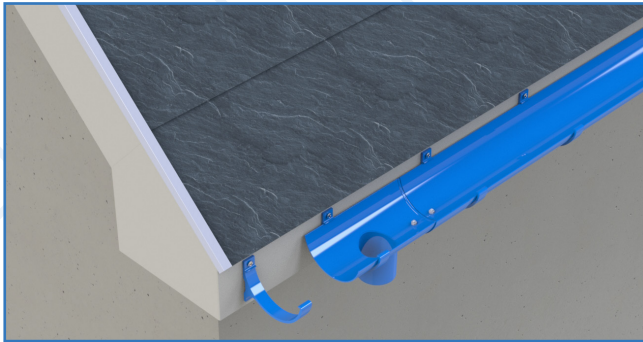


4. Once all brackets are secured, starting from left to right, hook and snap gutter into position. Secure system in accordance with the jointing process (see overleaf).

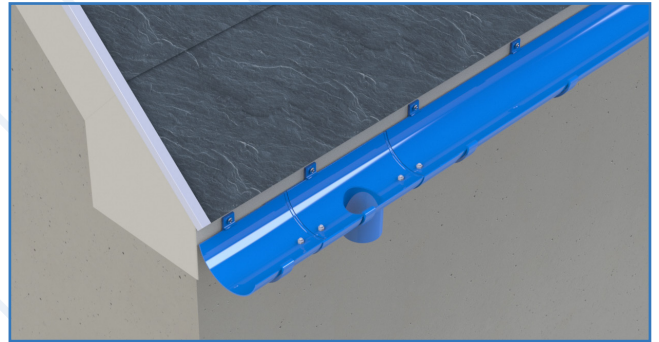


INSTALLATION GUIDE

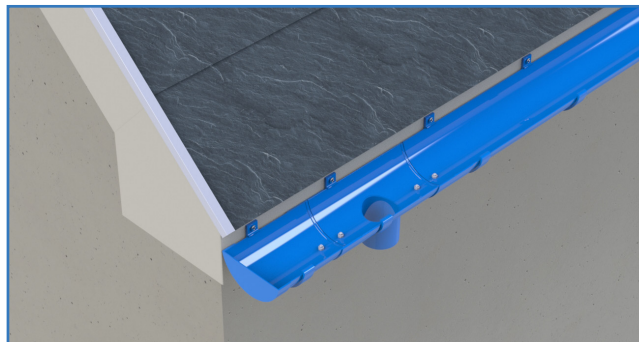
Half Round Guttering



5. Position outlets using a plumb line to gullies at ground level. Each outlet should have 1 no bracket directly supporting it.



6. Continue to install gutters, angles and outlets with internal / external jointers as required.



7. End cap to be placed in position, drilled and fixed as per the jointing process.

The Jointing Process using an External Joiner

Allow 5mm expansion gap between lengths and components.

Both surfaces to be jointed should be liberally sprayed with the surface preparation cleaner and wiped dry with a clean, dry cloth to ensure that any dirt, grease, or other contaminant is removed prior to applying the high performance, low modulus sealant.



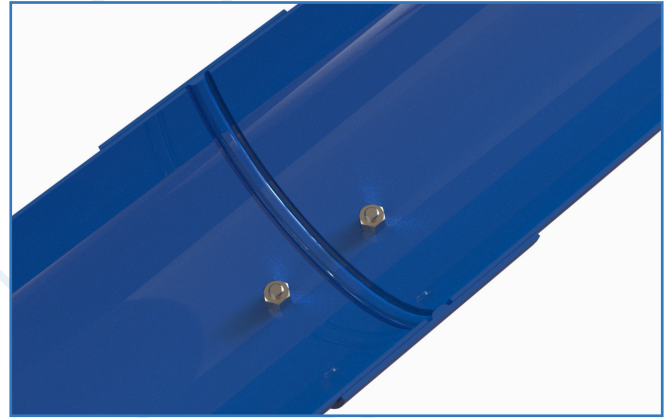
1. Offer the external jointer into place so it laps onto each gutter section equally.



2. 30mm in from either edge of the jointer, using the 6.5mm drill bit, drill a hole through the jointer and gutter. Remove the jointer and debur the holes if necessary.



3. Apply 2 no. generous 10mm beads of sealant to either side of drilled holes and around bolt hole in the lengths being joined. Re-position the jointer ensuring the holes are aligned. Insert M6 x 16 stainless fixing bolts from the underside of the gutter. Do not over tighten.



4. Remove any surplus sealant from faces of gutter. Using the sealant gun, ensure all areas around the jointer, length and fixing nuts are sealed with the bonding sealant. Gutter bolts may be touched up using touch up paint provided.

The Jointing Process using an Internal Jointer

Snap the adjoining gutter sections into place centrally over the gutter bracket, ensure a 5mm gap between the sections to allow for thermal expansion. The gutter bracket effectively covers the expansion gap from below.

Offer the internal jointer into place so it laps into each gutter section equally. 30mm in from either edge of the jointer, using the 6.5mm drill bit, drill a hole through the jointer and gutter. Debur the holes if necessary.

The gutter and jointer surfaces to be jointed should now be liberally sprayed with the Surface Preparation Cleaner and wiped dry with a clean, dry cloth prior to applying the high performance, low modulus sealant.

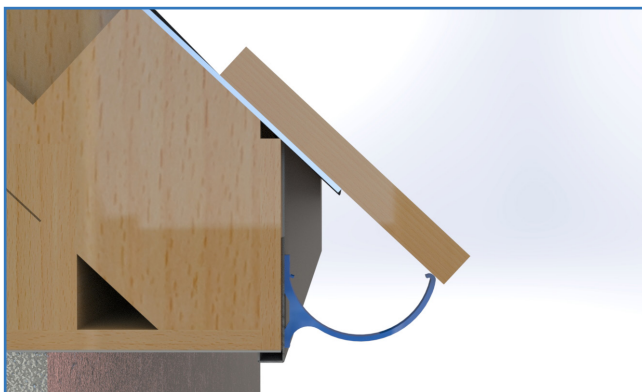
Apply 2 generous 10mm beads of the sealant either side of and around both drilled holes in the gutter. Re position the jointer ensuring the holes are aligned. Insert M6 x 16 stainless steel fixing bolts from the underside of the gutter and secure using the stainless-steel nut. Do not over tighten. Using the sealant gun, ensure all areas around the jointer, length and fixing nuts are sealed with the bonding sealant.

The exposed fixing bolts on the underside of the gutter may be touched up using touch up paint provided if required.

Outlets and end caps should be installed as per the jointing process outlined above.

Alternative Gutter Alignment

This low fixed gutter alignment is used where there is a risk of melting snow or ice sliding off the roof and damaging the eaves gutter. One possible downside of this alignment is the risk of rainwater overshooting.



1. Starting at a corner or end, place a spirit level or straight edge on top of the tiles or slates. Offer up the gutter fascia bracket to the underside of the straight edge and mark the screw hole.

Check fascia board alignment and shim where necessary.

Follow points 2-7 to complete installation.