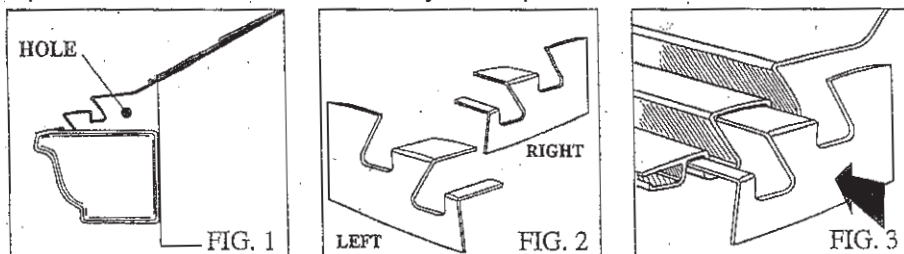
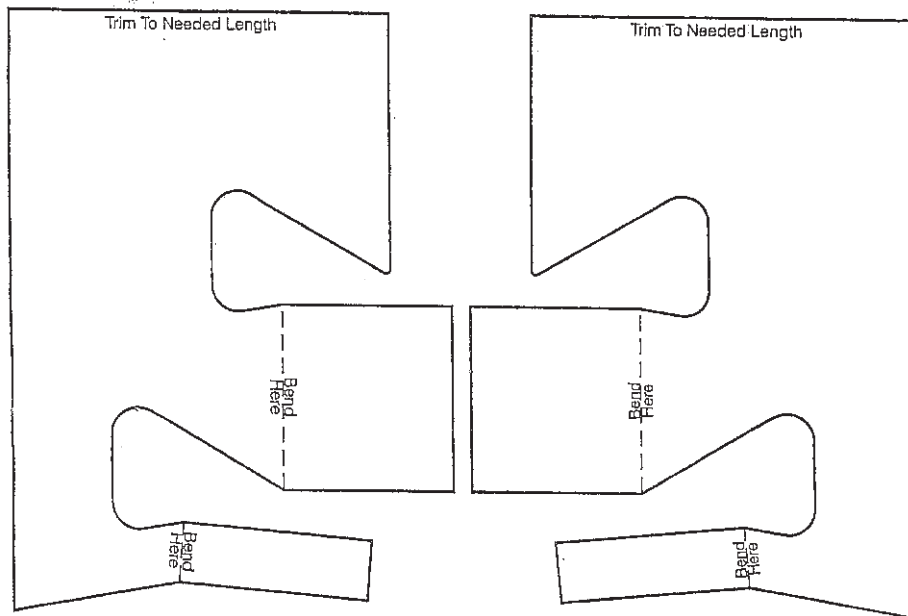


End Caps Depending on the placement of the gutter and the pitch of the roof, installation of the gutter guard may cause there to be a hole (FIG. 1) at the end of each gutter run which becomes attractive to birds, squirrels and other small animals. If you wish to cap these areas, you can use the templates below to create correctly fitted pieces.



1. Use coil stock aluminum or a scrap piece of the gutter guard.
2. Place the template over the material.
3. Cut to shape with tin snips, or a very sharp pair of scissors, by cutting around the solid lines. Cut the piece a bit long at first; then, holding it up to the hole, mark the correct length and cut to length.
4. Bend the piece in 90° at the dotted lines (FIG. 2).
5. Put the bottom of the piece inside the gutter, then slide the bent flanges into the grooves of the gutter guard (FIG. 3).



ROOFLINES[®]
GUTTER GUARD SYSTEM

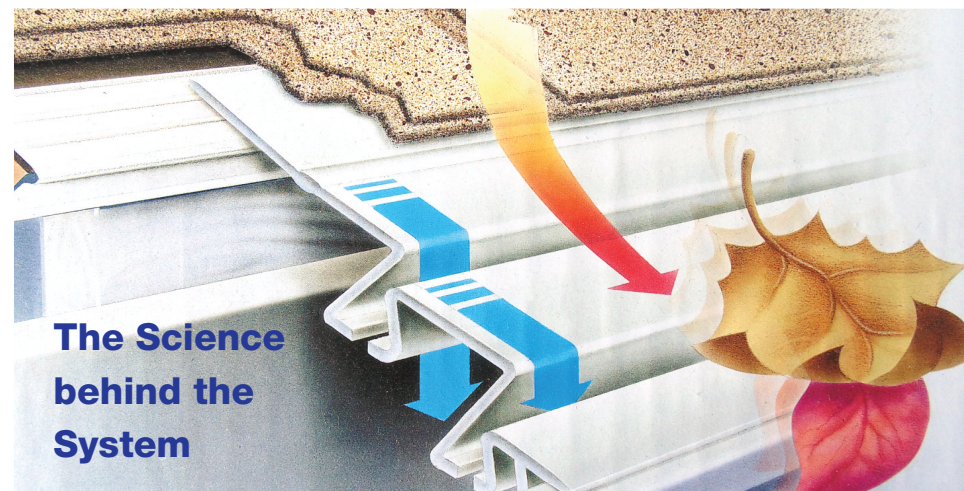
www.rooflinesgutterguard.co.uk
www.rooflines.co.uk
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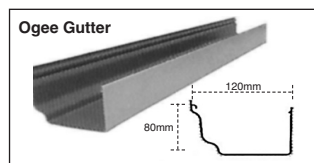
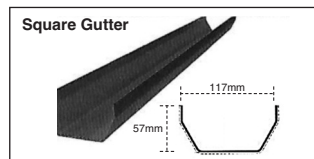
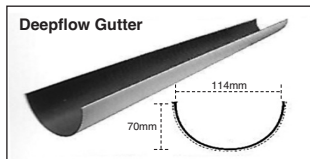
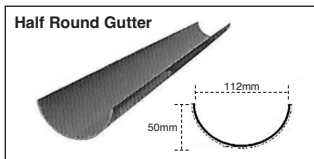
GUTTER GUARD SYSTEM

The System that prevents more than just Clogged Gutters

Installation Instructions

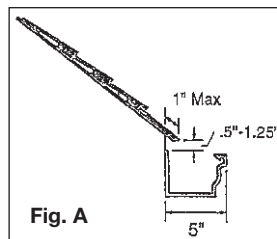


The Rooflines Gutter Guard System is designed to be easily installed on most PVC gutter profiles- the standard 112mm half round, the standard 112mm square and the larger 'ogee' 120mm and 'deep flow' 114mm together with the adaptor fitting, including the new commercial deep section, using the extension adaptor.



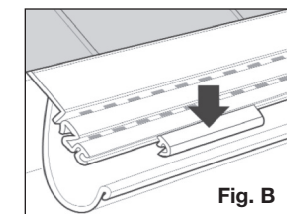
1. Unpack the Rooflines Gutter Guard product and make sure you have the same quantities and fittings as shown on the pack label/shipping carton.
2. You may also need a few tools to install the Gutter Guard. You'll need a fine tooth saw, a tenon saw is ideal as it is rigid, a mitre block if you have corners and valleys. See Fig D.

3. Before installation, if retro fitting, be sure to clean out the gutter of any silt and debris. Gutters should slope no more than $\frac{1}{4}$ " to $\frac{1}{2}$ " every 20'ft. and most should be level. Gutters should be positioned $\frac{1}{2}$ " and no more than $1\frac{1}{2}$ " below the leading edge of the tile or slate. The gutter should be positioned so that the tiles/slate extend no more than 1" over the gutter inner edge. See Fig A



4. To begin installing the Gutter Guard system, if retro fitting, start at one end of a gutter, usually from the left hand end first take the top edge of the Gutter Guard lifting the tiles (you may find if you use a timber lathe and lift a few tiles in the row at least the same length as the Gutter Guard, it makes it easier and quicker to fit) slide the Gutter Guard under the tiles and position the Gutter Guard to line up with the edge of you gutter. For new fitting attach the Gutter Guard firstly to the gutter and clipped onto the gutter edge, then fit the tiles as you require on top. See Fig B.
5. For a standard gutter you will not need the 'Ogee' adaptor- the standard adaptor, place this into the bottom edge of the Gutter Guard and then clip onto the gutter rim itself. For a wider gutter, use the larger adaptor to extend the Gutter Guard. See Fig G.

If you have difficulty in fitting the Gutter Guard over the front edge of the gutter, simply bend the gutter edge up slightly and then place the clip 4" piece onto the edge of the gutter.

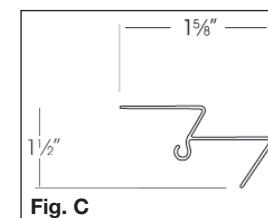


6. You have 2no fittings - use 1 for the main length and 1 for the joint between each Gutter Guard. You have 1no edge connector for each length of Gutter Guard and this is to fit onto each edge and provide a joint connection, Edge connector/Splice Clip, they just slide into the side section of the Gutter Guard. Leave a slight gap between each section of about $\frac{1}{4}$ " or 5mm to allow for expansion. See Fig C.

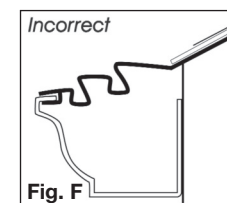
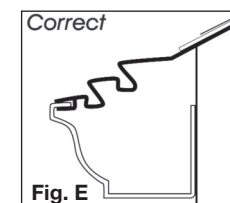
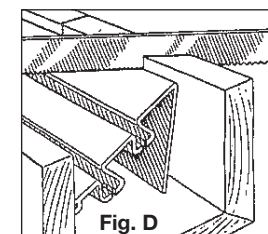
Standard Gutterguard - Lengths 1200mm and 2400mm

Adaptor for Ogee and wide gutter
Lengths of 1200mm and 2400mm

Adaptor for Gutter Rim
Pieces in 150mm lengths



7. For External and Internal corners with your Gutter and often a bay window with 135% angles- you are best using a mitre saw and mitre block to cut a neat line for your joints.
8. All installations should provide for a 35 to 40 degree pitch on the surface of the Gutter Guard. See Fig E and Fig F.



9. For the Ogee and wider plus the commercial gutter you will need the Extension piece.

To provide this extension which extends the Gutter Guard system it simply slots into the bottom edge of the main component - See Fig G.

