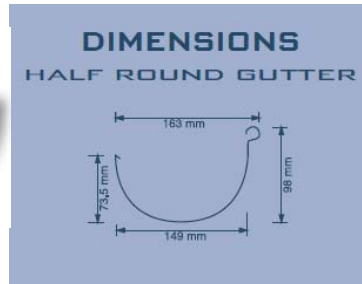


# ACE HALF ROUND

## INSTALLATION GUIDE / HANDY HINTS

Please note - Ace Gutters Pty Ltd supply Rainwater Product Installations Guides to assist our customers. Ace Gutters are not responsible for the design of a roof drainage system and or the installation of a gutter system. These responsibilities are held by the relevant trade professionals.



### FLOW RATE:

Volume in 1m length with overflow holes  
1.5 litres / second.  
2.5 litres / second without overflow holes.  
6.48 litres measured to overflow holes.  
7.16 litres measured to back of gutter.

## ORDERING OF MATERIALS

Prior to ordering your Ace Half Round and Accessories we recommend that you draw a plan of your building, measuring each section of the building separately.

This is important as it will assist you in determining the lengths of gutter, number of stop ends, nozzles, external and internal angles and bracketing that you will need to complete your job.

To assist you when ordering your gutter lengths please allow an additional 200mm past the end of every length of guttering that requires an external angle.

For your information we recommend that all bracketing, internal and or external brackets are generally fixed at 1.0m intervals.

Listed below are guidelines on the installation process itself, if you require any additional information and or assistance please contact our **Technical Sales Area on 02 9584 4766**.

## THE INSTALLATION PROCESS

### EXTERNAL BRACKETS



Determine your starting point from a corner, then fix your external or internal angle to the fascia using screws supplied at the top of the fascia.

To achieve your desired fall towards the downpipe outlet, calculate the fall required at 1mm for every 500mm of gutter.

Then place a nail or a screw at the opposite end of the gutter at the

required height.

Then tie a string line (tightly) around the nail and to the angle. Repeating this process for each run of guttering.

It is recommended that the external gutter brackets be centered / spaced between 800mm and 1200mm intervals, with the bottom of the brackets in line with the string line.

## ANGLES / CORNERS



It is recommended that all corners be cut on the ground using the template provided. Placing the corner template around the gutter, then drawing a line to mark the area to be cut.

Where external corners are required at both ends of a gutter run, cut 12mm shorter than the fascia measurement to allow for the angle. Then fit your stop ends & nozzles as required.

## GUTTER INSTALLATION



Place your half round gutter into external bracket and pull bead into place.

Fix the gutter to the bracket and fascia by placing a screw into the top of the external bracket just above the back of the gutter which is now in place. This will lock the gutter into position, preventing it from movement.

Use Ace Neutral Cure Silicone to then seal all joints cleaning any excess sealer of all joints and angles with a cloth.

## STOP ENDS



Fit the stop ends into the gutter prior to installation, drilling 4 pop rivet holes at spaces around the end of the gutter.

Then separate the stop end from the gutter and apply a 6mm bead of silicone to the inside edge of the gutter.

Then re fit the stop ends into the edge of the gutter, fixing the two together with pop rivets inserted into the pre drilled holes.

Clean off any excess sealer.

## NOZZLES



Using the Ace template provided push out the cardboard centre piece prior to placing the template around the gutter.

The template edge fits flush under the gutter bead. You then mark your nozzle cut out area.

Once you have cut out the area for your nozzle apply a 6mm bead of Ace Neutral Cure Sealer around the cut out edge. Also apply a 6mm bead of silicone to the top of the nozzle prior to fixing the two together using pop rivets.

## VALLEYS

For ordering purposes measure the length of valleys required from the ridge to the gutter, adding a metre for trimming around the ridge and fascia.

Then lay the valley on the valley boards and secure with bent nails over the roll on the valley sides.

Do not nail through the valley.

Where joining is required apply Ace Sealer to the joined area, lap top section 100mm over the bottom section and then fix with pop rivets using Ace Sealer again to seal these rivets.

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**Please Note – for your gutter system to work effectively please refer to the section below headed “Design, Installation and Maintenance Considerations”.**

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## DESIGN, INSTALLATION and MAINTENANCE CONSIDERATIONS

**DESIGN** - for a gutter system to work effectively the roof drainage system must be designed by a suitably qualified trade professional, in accordance with the Building Code of Australia and Australian Standards.

When designing a gutter system the architect and or relevant qualified trade professional must give consideration to – rainfall intensity, roof mass / catchment area and gutter, downpipe sizes and number of downpipes required based on these considerations

**INSTALLATION** – a gutter system must be installed in accordance with the Acceptable Construction Manual AS/NZS 3500.3 Stormwater Drainage and or AS/NZS 3500.5 Domestic Installation, Stormwater Drainage.

Product Compatibility - please note there are some products that are not compatible with pre painted steel, for example lead and copper. Please refer to page 40 of our current price list for further information.

**MAINTENANCE** – it is important that once a gutter system has been installed a maintenance program is put in place by the home owner / occupier to ensure that there are no blockages in the gutter system through the build up of debris or similar.

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