

SIMBA PROFILES

Rainwater Gutter System



The **SIMBA** Rainwater system is the most innovative Rainwater System available in the market today. Designed to withstand tough climatic conditions, its unique formulation of uPVC with the addition of titanium dioxide guarantees an ultra high level of protection against the effects of harmful U.V.

The **SIMBA** Rainwater system will not be affected by corrosion, impact or heat thus offering long-term benefits through low maintenance. The innovative features incorporated into the **SIMBA** Rainwater system are designed to reduce installation and assembly time.

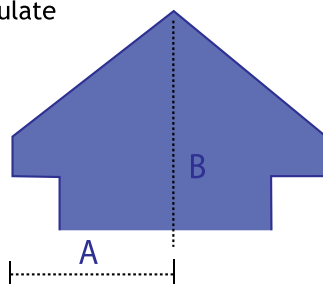
GUTTER DESIGN GUIDELINES

Use the following formula to calculate effective maximum roof area.

$$\text{Effective Roof Area} = [A+B/2] \times \text{Roof Length}$$

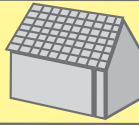
A = Horizontal Distance from edge to Roof Ridge

B = Roof Height



Effective roof area where angles installed are changed as follows:

- * within 2m of the outlet, increase effective roof area by 10%
- * greater than 2m from the outlet, increase the effective roof area by 5%.

Case 1 - Down pipe at one end				
	Gutter fixed horizontal		Gutter fixed at 1:350 fall	
				
112mm profile	Gutter flow (litres /s)	Roof area (m2)	Gutter flow (litres /s)	Roof area (m2)
	0.9	43	1.3	62

Case 2 - Downpipe at centre				
	Gutter fixed horizontal		Gutter fixed at 1:350 fall	
				
112mm profile	Gutter flow (litres /s)	Roof area (m2)	Gutter flow (litres /s)	Roof area (m2)
	1.8	86	2.6	125

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Basic elements of 80mm & 112mm Rainwater Gutter System

Material	Colour	Gutter Size	Down Pipe Size
uPVC	White	112 mm	80 mm



Gutter Profile



Support Bracket



Gutter Connector



Universal Angle



Gutter Outlet



End cap external/
Fixing Insert
End cap internal



90 degree Bend



45 degree Bend



Down Pipe Clip



Valley Box



Down Pipe coupling

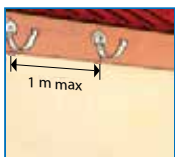


Screws

Installation instructions



1. Fasten 1st fixing bracket as high as possible under the roof.



2. Fasten last fixing bracket allowing slope of 3-5mm per meter towards the central outlet.
3. String a line between brackets and position additional brackets. Distance between brackets not to exceed 1 meter (for 112mm) and 0.7m (for 130/160mm gutter)



4. Solvent weld end cap in place.



5. Clip the smooth edge of gutter into fixing bracket and snap fit front up into place.
6. Fit expansion joint every 6m/4m. Gutter to be in line with markings inside the base fitting.



7. Install central outlet and downpipe to complete installation.

Basic elements of 130mm & 160 mm Rainwater Gutter System

Material	Colour	Gutter Size	Down Pipe Size
uPVC	White	160 mm	110 mm
	Brown	130 mm	110 mm
	Brown	160 mm	110 mm



Gutter Profile



Support Bracket



Gutter Connector



135 degree Angle



Gutter Outlet



90 degree Angle



Bend



Double Socket Bend



Branch Tee



Valley Box



Pipe Clip



End Cap

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