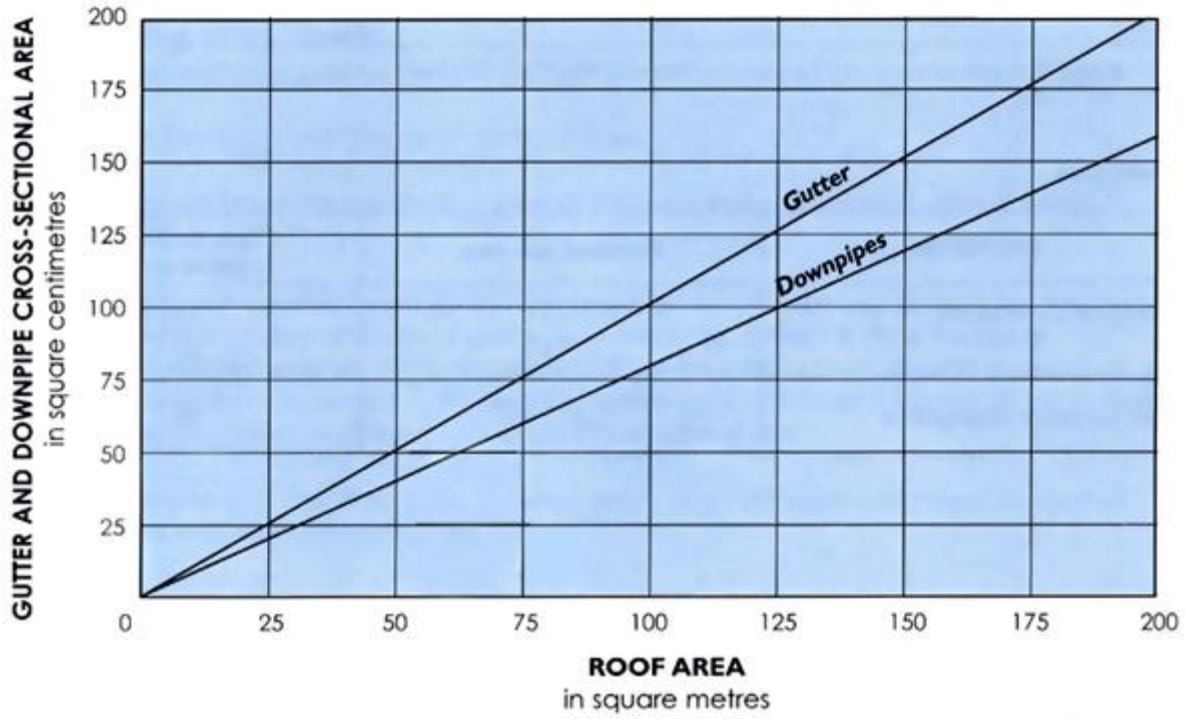
Determining the Sizes of Gutters & Downpipes

Size Selection Chart

The chart given below has been based on the assumption that 10cm² of gutter and 8cm² of downpipe is sufficient to effectively drain 10 m² of roof area under average rainfall conditions. To calculate for heavy rainfall conditions, however, sizes should be based on a figure of 10cm² of gutter and 8 cm² of downpipe for 7 m² of root area. Conversely, if dry conditions prevail, calculations should be based on 10 cm² of gutter and 8 cm² of downpipe being sufficient for 14 m² of roof area. If, therefore, gutter sizes are required for a roof under these rainfall conditions, the measured area of the roof may be **increased by 43% for heavy rainfall conditions or reduced by 28% for dry conditions** and the gutter and downpipe areas required read off the chart as for normal conditions.



Example:
Roof Area 150 m²
Gutters 150 cm² use either 200mm half round gutter or 150 x 125 x 150 VHV gutter.
Downpipes 120 cm² use 100mm round downpipes.

Consult your local authority for rainfall conditions in your area to determine your gutter requirements.