

Bloggs and Assoc  
Somewhere Lane  
Somewhere else

Job No: 007  
July 32 2020

**EAVES GUTTER AND DOWN PIPE DESIGN TO AS/NZS 3500.3: 2015**  
**Industrial Building for Mrs Bloggs**  
**Down pipes 1 - 6**

Horizontal catchment area	Ah =	150	sq.m
Roof slope	S =	12	degrees
Intensity	I =	251	mm/hr
Is Gutter slope steeper than 1:500 ?		No	
Selected Number of Down pipes	n =	6	
from AS 3500 Table 3.4.5.2, Catchment Area Multiplier	f =	1.11	
Roof Area allowing for slope	Ac =	Ah*f	
		= 166.5	sq.m
Catchment Area per DP	A =	Ac/n	sq.m
		= 27.8	sq.m
Flow/DP	q =	I*A/3600	litres/sec
		= 1.93	litres/sec
from AS/NZS 3500 fig 3.5.2(C), Gutter Area		= 8292	sq.mm
Gutter Area rounded to nearest 100sq.mm		= 8300	sq.mm
From AS/NZS 3500 Table 3.5.2,, Down Pipe size		= 100 x 50	mm
<i>(Interpolating between the standard sizes of the table. Info Only)</i>		= 70 x 70	mm
<i>Cross sectional area (Info Only)</i>		= 4900	sq.mm
Down Pipe size selected		= 100 x 50	mm
cross sectional area		= 5000	sq.mm
<b>Summary</b>			
This catchment requires :- number of DP's		= 6	
Downpipe size		= 100 x 50	mm
minimum eaves gutter cross sectional Area		= 8292	sq.mm
(note assuming the catchment area of each DP is roughly similar)			

Joe Bloggs  
Head Honcho  
ph 12121212  
m 34343434