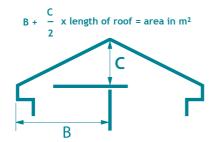
# Hunter RAINWATER CALCULATIONS

On face value, guttering installation is a piece of cake, but it is amazing how many installers get it wrong.



### Step One: Calculate Effective Maximum Roof Area

This can be calculated by using the following formula (see diagram below):



### Calculating effective roof areas where gutter angles are installed

Effect of angles – If a length of eaves gutter includes an angle, the flow in the gutter will be impeded and its capacity reduced by 15%. Where an angle occurs in a length of gutter served by two outlets, the reduction factor of 0.85 should only be applied to that part of the gutter in which the angle obstructs the flow. These figures are based on a rainfall intensity of 75mm/hr, roof pitch not exceeding 50°, gutters running full.

Refer to BSEN 12056, Part 3: Roof drainage, layout and calculations.



### **Installation Tips**

- For gutter fixings onto wooden fascias use 25mm x No.10 round head rust proof screws
- For gutter fixings onto PVC fascias use 35mm x 5mm No.10 parallel thread zinc plated or stainless steel, recess pan head, single-start self tapping screws
- For downpipe supports use 32mm x No.10 screws to masonry wall plugs

## It's simple with Hunter Surefit!

An easy to use rainwater calculator can be found on our website

Step Two: Select Your CONFIGUR		www.hunterplastics.co.uk					
		Gutter Fiz	xed Level	Gutter F	Gutter Fixed at 1:350		
Flow Capacity:		Gutter Flow (Litres/Sec)	Roof Area m²	Gutter Flow (Litres/Sec)	Roof Area m²		
	HALF ROUND						
	76mm	0.7	34	0.8	38		
Downpipe at centre	112mm	1.8	86	2.6	125		
	SQUAREFLO	3.2	154	3.8	182		
	125						
	68mm (Downpipe)	3.8	182	4.6	221		
	82mm (Downpipe)	4.0	191	4.9	235		
	REGENCY	4.2	202	4.7	226		
	HIGHFLO	5.4	258	6.0	289		
	STORMFLO						
	110mm	11.1	534	12.4	598		
	160mm	12.5	601	14.0	673		
Downpipe at end	HALF ROUND						
	76mm	0.5	24	0.6	29		
	112mm	0.9	43	1.3	62		
	SQUAREFLO	1.6	77	2.0	96		
	125						
	68mm (Downpipe)	2.1	101	2.4	115		
	82mm (Downpipe)	2.2	106	2.5	120		
	REGENCY	2.1	101	2.3	110		
	HIGHFLO	2.8	136	2.9	137		
	STORMFLO						
	110mm	5.9	282	5.9	284		
	160mm	6.6	318	6.7	320		

## Compatibility Table

	Rainwater			Waste	Soil		Underground					
	Half Round	Squareflo	125	110mm	Push-fit	Solvent	110mm	160mm				
Hepworth	~	~	~	~	~	~	~	~				
Marley	~	×	$\checkmark$	~	~	~	~	~				
Osma	~	×	$\checkmark$	~	~	~	~	✓				
Polypipe	~	~	~	~	~	~	~	~				
Brett	~	×	$\checkmark$	~	~	~	~	~				

Hunter products are compatible with many other manufacturers' systems and with traditional cast iron and aluminium systems.