

Soakaway Design

$S = (A \times 0.0145) - (a \times f \times 900)$ (From Building Standards 3.6.5 (b))			
S	0.3378	m ³	Soakaway Size
A	30	m ²	Area to be Drained
a	2.16	m ²	Internal surface area of soakaway to 50% eff depth
f	0.00005	m/sec	Soil Infiltration Rate (from below)
	0.0145		numberless coefficient
	900		numberless coefficient

$f = (1/V_p)/1001$			
V _p	20	sec/mm	Percolation Rate

V_e Effective Volume = L x W x D x Void Ratio			
L	3	m	Soakaway Length
W	0.6	m	Soakaway Width
D	0.6	m	Soakaway Depth
V _e	0.378	m ³	Effective Volume (L x W x D x Void Ratio)
	35	%	Void Ratio to Soakaway Gravel

Soakaway Size Okay