



Stormwater Infiltration BMP

CALCULATION WORKSHEET FOR INFILTRATION BMP

Landowner:	Date:
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Please use the table below to calculate your impervious surface coverage. Calculate all structures that apply to your situation.

STORM FACTOR = 0.2 (2.2" Rain Event)

EXISTING & PROPOSED STRUCTURES <small>House, Garage, Shed, Boathouse, Driveway, Parking Area, Boat Ramp, Sidewalk, Patio, Paving Stones, Landscaping (incl. plastic), Other (Dog Kennel), etc.</small>	AREA SQ. FT.	X	STORM FACTOR	=	TOTAL CU. FT.
<i>Example:</i> Sidewalk (example is using a 6" BMP depth)	48	x	0.2		9.6
		x	0.2		
		x	0.2		
		x	0.2		
		x	0.2		
		x	0.2		
		x	0.2		
TOTAL					

DEPTH FACTOR (DF) (USE FACTOR, NOT INCHES)	
3" = 4.0	6" = 2.0
8" = 1.5	12" = 1
24" = 0.5	

TOTAL CU. FT. (FROM ABOVE)	X	DF	=	TOTAL AREA OF INFILTRATION BMP SQ. FT.
9.6	x	2.0		19
	x	1.0		
TOTAL				

AREA FORMULAS	
Square/Rectangle:	Length X Width
Triangle:	$\frac{\text{Base X Height}}{2}$
Circle:	$\pi \times (\text{Radius}^2)$ <small>($\pi = 3.14$)</small>

SIZING OF INFILTRATION BMP:
1. Measure square footage of the impervious area of runoff.
2. Multiply by the Storm Factor = 0.27 OR 0.2
3. This is the cubic feet of storage needed.
4. Multiply by the Depth Factor (DF)
5. Square footage of area needed for the Rock-Filled Infiltration BMP depth.

