

DESIGN GUIDE NO. PA-1: ROOF GUTTERS & DOWNSPOUTS

GUTTER STYLE	GUTTER SIZE (inches)	GUTTER SLOPE (in/ft)	MAX ROOF AREA FOR: [1]		MAX GUTTER CAPACITY (cfs)[4]	COMPATIBLE DOWNSPOUTS - size / cfs [5]					
			P = 0.5" [2]	P = 0.6" [3]		Plain Round	Corrugated Round	Octagonal	Corrugated Square	Plain Rectangular	
BOX OGEE GALVANIZED	5	1/16	1580	1320	0.22	3"	3"	3"	3"	2" x 3"	3" x 4"
			2230	1860	0.31	3"	3"	3"	3"	3"	3" x 4"
			3170	2640	0.44	3"	3"	3"	3"	3"	3" x 4"
BOX OGEE GALVANIZED	6	1/16	2450	2040	0.34	3"	3"	3"	3"	3"	3" x 4"
			3460	2880	0.48	3"	3"	3"	3"	3"	3" x 4"
			4900	4080	0.68	3"	3"	3"	3"	3"	3" x 4"
BOX OGEE GALVANIZED	7	1/16	4250	3540	0.59	4"	4"	4"	4"	4"	4" x 5"
			5980	4980	0.83	4"	4"	4"	4"	4"	4" x 5"
			8420	7020	1.17	4"	4"	4"	4"	4"	4" x 5"
BOX OGEE ALUMINUM	5	1/16	1010	840	0.14	3"	3"	3"	3"	2" x 3"	3" x 4"
			1370	1140	0.19	3"	3"	3"	3"	2" x 3"	3" x 4"
			1940	1620	0.27	3"	3"	3"	3"	2" x 3"	3" x 4"
BOX OGEE ALUMINUM	6	1/16	2450	2040	0.34	3"	3"	3"	3"	3"	3" x 4"
			3380	2820	0.47	3"	3"	3"	3"	3"	3" x 4"
			4970	4140	0.69	3"	3"	3"	3"	3"	3" x 4"
SEMI-CIRCLE	6	1/16	1150	960	0.16	3"	3"	3"	3"	3"	3" x 4"
			1660	1380	0.23	3"	3"	3"	3"	3"	3" x 4"
			2300	1920	0.32	3"	3"	3"	3"	3"	3" x 4"

- [1] Square feet (max gutter capacity controls)
- [2] 10-year, 5-min. rainfall
- [3] 25-year, 5-min. rainfall
- [4] With 1/2" freeboard. For roof area less than maximum, actual gutter discharge is this value times (actual roof area / maximum roof area)
- [5] Sizes that fit the gutter bottom width and their respective orifice discharge. Select size and number of downspouts that provide discharge equal to or greater than gutter capacity.

