



Fire Protection Coverage

Joint Estimation Table:

Lock up the joint width in the left hand column. Calculations for depths ranging from 1/8" (0.125") to 1" are provided. Stated values are caulking. To calculate spray requirements, add actual joint width + overspray to determine JOINT WIDTH. Example: Actual joint width = 4", overspray = 1" on both sides. JOINT WIDTH would be 6". For wider joints, such as 8" joints double the values shown in the 4" JOINT WIDTH Estimation.

Joint Estimation Table

Joint Width	Per 1/8" Installed Depth			Per 1/4" Installed Depth			Per 1/2" Installed Depth			Per 1" Installed Depth		
	CU IN FT	FT/GAL	GAL/100 FT	CU IN/FT	FT/GAL	GAL/100 FT	CU IN/FT	FT/GAL	GAL/100 FT	CU IN/FT	FT/GAL	GAL/100 FT
0.5	0.8	308	0.3	1.5	154	0.6	3	77	1.3	6	38.5	2.6
0.75	1.1	205.3	0.5	2.2	102.7	1	4.5	51.3	1.9	9	25.7	3.9
1	1.5	154	0.6	3	77	1.3	6	38.5	2.6	12	19.3	5.2
1.5	2.2	102.7	1	4.5	51	2	9	25.7	3.9	18	12.8	7.8
2	3	77	1.3	6	38	2.6	12	19.3	5.2	24	9.6	10.4
2.5	3.8	61.6	1.6	8	31	3.3	15	15.4	6.5	30	7.7	13
3	4.5	51.3	1.9	9	25	3.9	18	12.8	7.8	36	6.4	15.6
3.5	5.2	44	2.3	11	22	4.6	21	11	9.1	42	5.5	18.2
4	6	38.5	2.6	12	19	5.2	24	9.6	10.4	48	4.8	20.8
5	7.5	30.8	3.2	15	15	6.5	30	7.7	13	60	3.9	26
6	9	25.7	3.9	18	12	7.8	36	6.4	15.6	72	3.2	31.2

Through-Penetration Estimation Table:

To determine sealant requirement, look up the pipe size (left-hand column) and follow across to appropriate opening size (top row). The value indicated is for round openings sealed with a 1/4" depth of sealant. A multiplier has been provided for calculating different sealant depth requirements (Sealant Depth Factor). Values have also been provided for the openings and pipe areas. If more than one pipe is running through an opening, simply add the total area of the pipes and subtract from the opening area. Then multiply by the sealant depth to calculate sealant requirements.

Through-Penetration Estimation Table

Sealant Depth Factor			
1/2"	5/8"	1"	1-1/4"
x2	x2.5	x4	x5

Pipe Size			Size of Opening (Area of Opening) in Inches											
Trade Size	Pipe OD	Area	1.5 (1.8)	2 (3.1)	3 (7.1)	4 (12.6)	5 (19.6)	6 (28.3)	7 (38.5)	8 (50.3)	10 (78.5)	12 (113.1)	14 (153.9)	26 (530.9)
1/2"	0.84	0.6	0.3	0.6	1.6	3	4.8	6.9	9.5	12.4	19.5	28.1	38.3	132.6
1"	1.313	1.4	0.1	0.4	1.4	2.8	4.6	6.7	9.3	12.2	19.3	27.9	38.1	132.4
1-1/2"	1.9	2.8			1.1	2.4	4.2	6.4	8.9	11.9	18.9	27.6	37.8	132
2"	2.375	4.4			0.7	2	3.8	6	8.5	11.5	18.5	27.2	37.4	131.6
2-1/2"	2.875	6.5			0.1	1.5	3.3	5.4	8	10.9	18	26.7	36.9	131.1
3"	3.5	9.6				0.7	2.5	4.7	7.2	10.2	17.2	25.9	36.1	130.3
3-1/2"	4	12.6					1.8	3.9	6.5	9.4	16.5	25.1	35.3	129.6
4"	4.5	16.3					0.8	3	5.6	8.5	15.6	24.2	34.4	128.7
6"	5.563	34.2							1.1	4	11.1	19.7	29.9	124.2
8"	8.653	58.8									4.9	13.6	23.8	118
10"	10.75	90.8										5.6	15.8	110
12"	12.75	127.7											6.6	100.8
24"	24	452.4												19.6

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