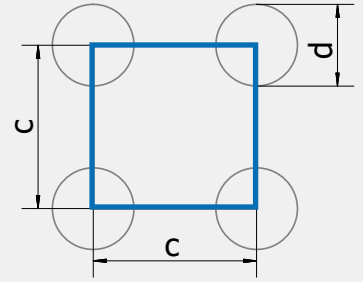


Round Hole (Straight Pattern)

Perforation diameter (**d**)

Center distance (**c**)

$$\text{Open area (\%)} = 0.785 \times \frac{d^2}{c^2} \times 100$$



d (mm)	c (mm)	Open area (%)
0.4	1.5	5.6
0.5	1.5	8.7
0.8	1.8	15.5
1	1.5	34.9
1	2	19.6
1.5	2.5	28.3
1.5	3	19.6
2	3	34.9
2	3.5	25.6
2	4	19.6
2.5	4	30.7
2.5	4.5	24.2
2.5	5	19.6
3	5	28.3
3	6	19.6
3	8	11.0
4	6	34.9
4	8	19.6
5	7	40.1
5	8	30.7
5	9	24.2
5	10	19.6
6	8	44.2
6	9	34.9
6	10	28.3
6	12	19.6
7	9	47.5
7	10	38.5
7	14	19.6

d (mm)	c (mm)	Open area (%)
8	10	50.2
8	12	34.9
8	16	19.6
9	12	44.2
9	18	19.6
10	12	54.5
10	14	40.1
10	20	19.6
11	13	56.2
11	15	42.2
12	14	57.7
12	16	44.2
12	18	34.9
12	24	19.6
14	16	60.1
14	18	47.5
14	20	38.5
15	20	44.2
15	30	19.6
16	20	50.2
16	22	41.5
16	32	19.6
17	22	46.9
17	25	36.3
18	22	52.5
18	25	40.7
18	26	37.6
19	25.4	43.9
19	28.5	34.9

d (mm)	c (mm)	Open area (%)
20	25	50.2
20	28	40.1
20	30	34.9
20	40	19.6
22	30	42.2
22	35	31.0
22	44	19.6
23	31.5	41.9
25	30	54.5
25	35	40.1
25	50	19.6
25.4	31.8	50.1
25.4	38.1	34.9
30	40	44.2
30	50	28.3
30	60	19.6
32	38	55.7
32	76	13.9
35	45	47.5
35	52	35.6
38.1	50.8	44.2
38.1	57.1	35.0
40	50	50.2
40	55	41.5
50	60	54.5
50	70	40.1
50.8	63.5	50.2
50.8	76.2	34.9
63.5	76.2	54.5