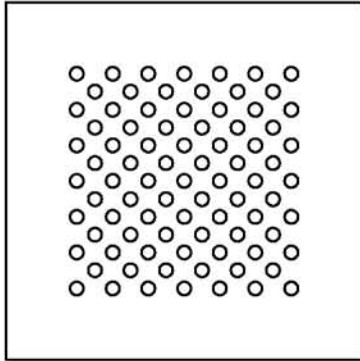
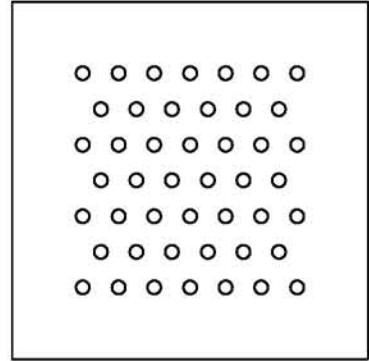




KEY • PERFORATION PATTERNS



KP TYPE 1.



KP TYPE 2.

KEYSTONE PERFORATION PATTERNS

Keystone is able to offer a vast and flexible range of square perforation patterns

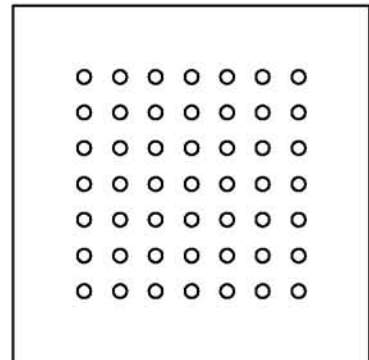
based on the standard range of square patterns perforations can be created to form a unique geometric precedent.

Our state of the art machines are purposely built to achieve specific requirements and therefore capable to meet any diligent design criteria.

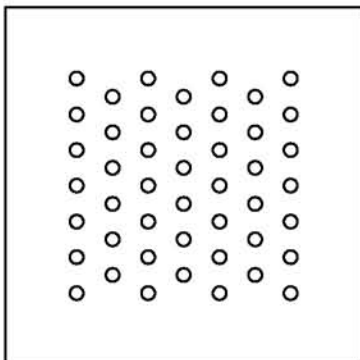
OPEN AREA & PERFORMANCFE

Changing the perforation pattern will adjust the open area percentage.

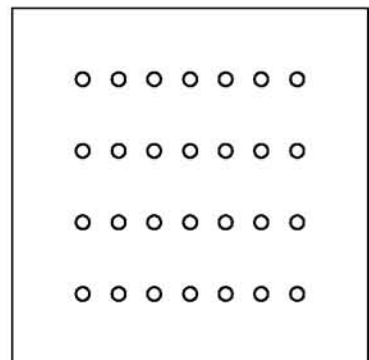
Keystone Acoustics technical department will advise you on how to achieve your open area specification.



KP TYPE 3.



KP TYPE 5.



KP TYPE 4.



KP TYPE 1-5 PERFORATION OPEN AREA %
KEY-PLY & KEY-LENA & KEY-ECLIPSE

4.5	5.0	6.0	7.0	8.0	9.0	10.0	12.0	15.0
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13	KP1	18.03	22.26	32.06	
	KP2	9.09	11.23	16.16	22.00
	KP3	9.09	11.23	16.16	22.00
	KP4	4.57	5.64	8.13	11.06
	KP5	9.07	11.20	16.12	21.94

15	KP1	12.71	15.70	22.60	30.76	40.18	
	KP2	6.38	7.87	11.34	15.43	20.16	
	KP3	6.42	7.93	11.41	15.53	20.29	25.68
	KP4	3.23	3.99	5.74	7.82		
	KP5	6.32	7.80	11.23	15.28	19.96	

20	KP1	7.08	8.74	12.59	17.13	22.38	28.32	34.96		
	KP2	3.65	4.51	6.49	8.83	11.54	14.60	18.03	25.96	40.56
	KP3	3.59	4.43	6.38	8.68	11.34	14.35	17.72	25.51	39.86
	KP4	1.86	2.29	3.30	4.49	5.87	7.43	9.17	13.21	20.64
	KP5	3.64	4.49	6.46	8.80	11.49	14.54	17.96	21.73	

25	KP1	4.50	5.55	7.99	10.88	14.21	17.98	22.20	31.97	
	KP2	2.29	2.82	4.06	5.53	7.22	9.14	11.29	16.25	25.40
	KP3	2.31	2.85	4.11	5.59	7.30	9.24	11.41	16.43	25.68
	KP4	1.17	1.44	2.08	2.83	3.69	4.67	5.77	8.31	12.98
	KP5	2.30	2.84	4.09	5.56	7.27	9.20	11.35	16.35	

30	KP1	3.21	3.96	5.71	7.77	10.15	12.84	15.86	22.83	
	KP2	1.59	1.97	2.84	3.86	5.04	6.38	7.88	11.34	17.72
	KP3	1.64	2.02	2.91	3.96	5.17	6.55	8.08	11.64	18.19
	KP4	0.82	1.01	1.45	1.98	2.59	3.27	4.04	5.82	
	KP5	1.58	1.96	2.82	3.83	5.01	6.34	7.82	11.26	17.60

35	KP1	2.39	2.95	4.24	5.78	7.55	9.55	11.79	16.98	
	KP2	1.13	1.39	2.01	2.73	3.57	4.52	5.57	8.03	12.54
	KP3	1.22	1.51	2.17	2.95	3.86	4.88	6.03	8.68	13.57
	KP4	0.58	0.72	1.03	1.41	1.84	2.33	2.87	4.14	
	KP5	1.21	1.50	2.15	2.93	3.83	4.85	5.99	8.62	13.47

4.5	5.0	6.0	7.0	8.0	9.0	10.0	12.0	15.0	20.0	30.0	40.0	50.0
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40	KP1	1.84	2.27	3.27	4.46	5.82	7.37	9.09	13.10	20.46				
	KP2	0.93	1.15	1.65	2.25	2.94	3.72	4.59	6.61	10.32	18.35	41.28		
	KP3	0.94	1.17	1.68	2.29	2.99	3.78	4.67	6.72	10.50	18.66			
	KP4	0.48	0.59	0.85	1.16	1.52	1.92	2.37	3.42	5.34	9.49	21.35		
	KP5	0.94	1.16	1.67	2.27	2.96	3.75	4.63	6.66	10.41	18.51	41.65		

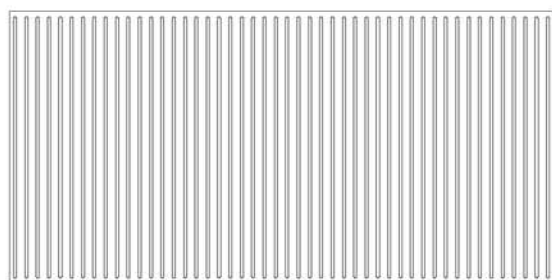
45	KP1	1.39	1.72	2.48	3.37	4.41	5.58	6.88	9.91	15.49	27.53	61.95		
	KP2	0.75	0.92	1.33	1.81	2.36	2.99	3.69	5.31	8.30	14.75	33.18	58.99	
	KP3	0.72	0.89	1.28	1.74	2.27	2.87	3.55	5.11	7.98	14.18	31.91		
	KP4	0.39	0.48	0.69	0.94	1.23	1.55	1.91	2.76	4.31	7.66	17.23	30.63	
	KP5	0.71	0.88	1.26	1.72	2.25	2.85	3.51	5.06	7.90	14.05	31.61		

50	KP1	1.16	1.43	2.05	2.80	3.65	4.62	5.71	8.22	12.84	22.83	51.37		
	KP2	0.58	0.72	1.04	1.41	1.85	2.34	2.89	4.15	6.49	11.54	25.97	46.16	
	KP3	0.60	0.74	1.06	1.44	1.89	2.39	2.95	4.25	6.63	11.79	26.53	47.17	
	KP4	0.30	0.38	0.54	0.74	0.96	1.22	1.51	2.17	3.39	6.02	13.55	24.09	
	KP5	0.58	0.72	1.04	1.41	1.85	2.34	2.89	4.15	6.49	11.54	25.97		

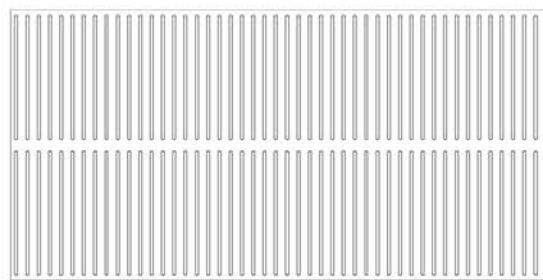
75	KP1	0.49	0.60	0.87	1.18	1.54	1.95	2.41	3.48	5.43	9.65	21.72	38.62	
	KP2	0.27	0.33	0.47	0.64	0.84	1.06	1.31	1.89	2.95	5.25	11.81	20.99	32.79
	KP3	0.26	0.32	0.46	0.62	0.81	1.03	1.27	1.83	2.85	5.07	11.41	20.29	31.70
	KP4	0.14	0.17	0.25	0.34	0.45	0.57	0.70	1.01	1.57	2.79	6.28	11.17	17.45
	KP5	0.25	0.31	0.45	0.61	0.80	1.01	1.25	1.80	2.81	5.00	11.24	19.88	31.23

##	KP1	0.30	0.37	0.53	0.72	0.94	1.20	1.48	2.12	3.32	5.90	13.28	23.61	36.88
	KP2	0.15	0.18	0.26	0.35	0.46	0.59	0.72	1.04	1.63	2.89	6.50	11.56	18.07
	KP3	0.16	0.20	0.28	0.38	0.50	0.64	0.79	1.13	1.77	3.14	7.07	12.57	19.63
	KP4	0.08	0.10	0.14	0.19	0.25	0.32	0.39	0.57	0.88	1.57	3.53	6.28	9.82
	KP5	0.14	0.18	0.25	0.34	0.45	0.57	0.70	1.01	1.58	2.81	6.33	11.26	17.59

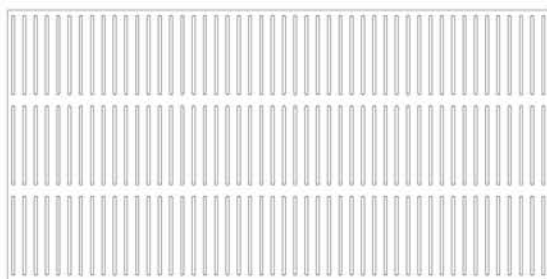
##	KP1	0.07	0.09	0.12	0.17	0.22	0.28	0.35	0.50	0.78	1.39	3.12	5.54	8.68
	KP2	0.03	0.04	0.06	0.08	0.11	0.13	0.17	0.24	0.37	0.67	1.50	2.66	4.16
	KP3	0.04	0.05	0.07	0.10	0.13	0.16	0.20	0.33	0.44	0.79	1.77	3.14	4.91
	KP4	0.02	0.02	0.04	0.05	0.06	0.08	0.10	0.14	0.22	0.39	0.88	1.57	2.45
	KP5	0.03	0.04	0.06	0.08	0.10	0.13	0.16	0.23	0.36	0.63	1.42	2.53	3.95



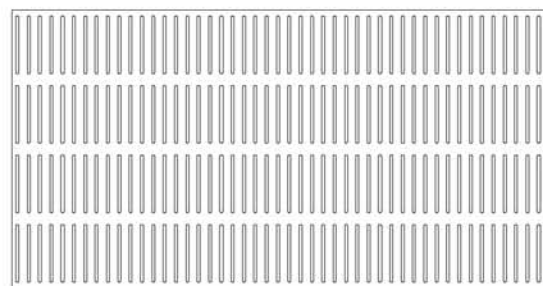
KS TYPE 1.



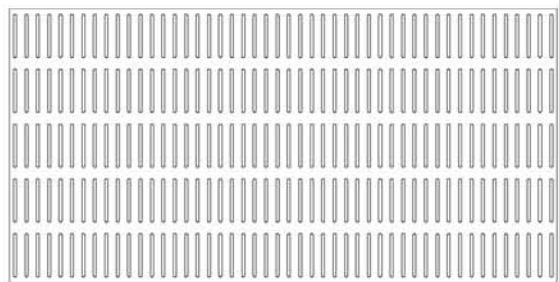
KS TYPE 2.



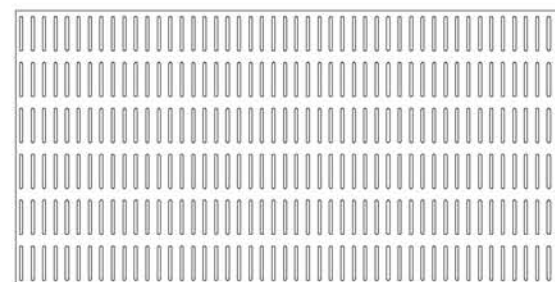
KS TYPE 3.



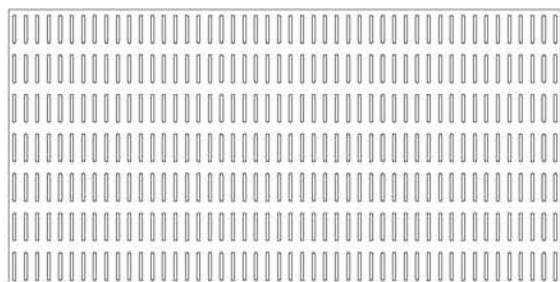
KS TYPE 4.



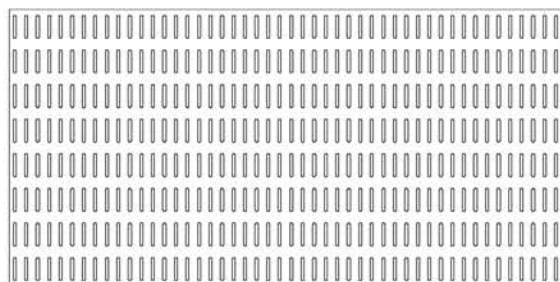
KS TYPE 5.



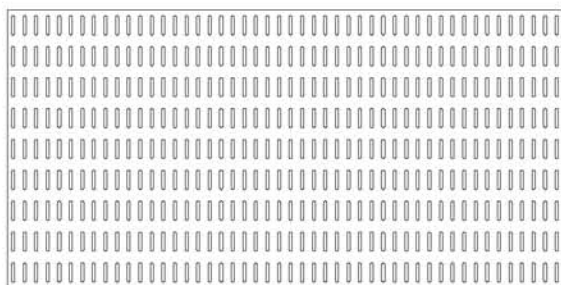
KS TYPE 6.



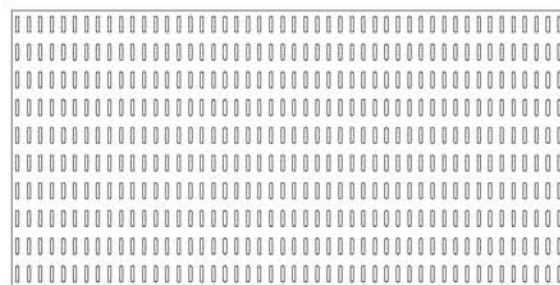
KS TYPE 7.



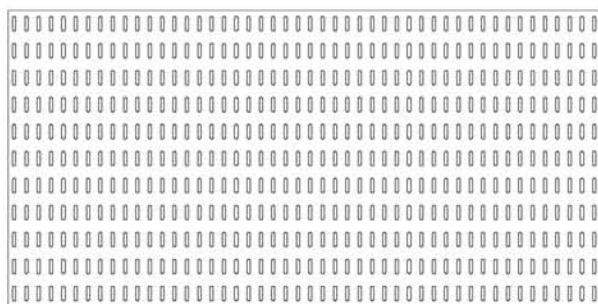
KS TYPE 8.



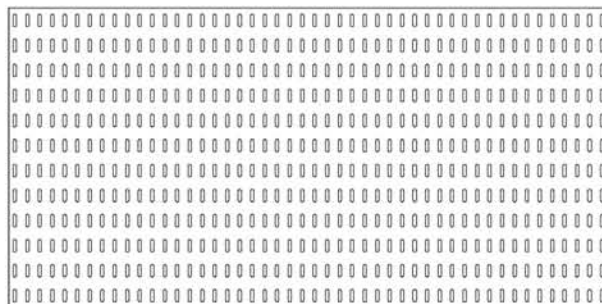
KS TYPE 9.



KS TYPE 10.



KS TYPE 11.



KS TYPE 12.



KS TYPE 1-12 SLOT OPEN AREA %
KEY-PLY, KEY-LENA, KEY-ECLIPSE

5.0	6.0	7.0	8.0	9.0	10.0	12.0
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KS TYPE 1							
25mm		22.73%					
30		18.91	22.05	25.20			
35		16.27	18.98	21.69	24.40	27.10	
40		14.36	16.75	19.14	21.53	23.91	28.69
45		12.68	14.79	16.91	19.01	21.12	25.34
50		11.49	13.40	15.31	17.22	19.13	22.95
60		9.57	11.17	12.76	14.35	15.94	19.12
75		7.66	8.93	10.21	11.48	12.75	15.30
100		5.74	6.70	7.66	8.61	9.57	11.47

KS TYPE 2							
25		21.72%	25.33	28.94	32.54	36.14	
30		18.06	21.06	24.06	27.06	30.06	36.04
35		15.55	18.13	20.71	23.29	25.87	31.02
40		13.72	16.00	18.28	20.55	22.83	27.37
45		12.12	14.13	16.14	18.15	20.16	24.18
50		10.97	12.80	14.62	16.44	18.26	21.90
60		9.15	10.67	12.18	13.70	15.22	18.25
75		7.32	8.53	9.75	10.96	12.17	14.60
100		5.49	6.40	7.31	8.22	9.13	10.95

KS TYPE 3							
25mm		20.70%	24.14	27.57	31.00	34.42	41.26
30		17.22	20.07	22.93	25.78	28.63	34.31
35		14.82	17.28	19.74	22.19	24.64	29.53
40		13.08	15.25	17.41	19.58	21.74	26.06
45		11.55	13.47	15.38	17.29	19.20	23.02
50		10.46	12.20	13.93	15.66	17.39	20.85
60		8.72	10.16	11.61	13.05	14.49	17.37
75		6.97	8.13	9.29	10.44	11.60	13.90
100		5.23	6.10	6.97	7.83	8.70	10.42

KS TYPE 4							
25mm		19.69%	22.95	26.21	29.46	32.70	39.18
30		16.37	19.09	21.79	24.50	27.20	32.58
35		14.09	16.43	18.67	21.09	23.41	28.04
40		12.44	14.50	16.55	18.61	20.65	24.74
45		10.98	12.80	14.62	16.43	18.24	21.86
50		9.95	11.60	13.24	14.88	16.52	19.79
60		8.29	9.66	11.03	12.40	13.77	16.49
75		6.63	7.73	8.83	9.92	11.02	13.20
100		4.97	5.80	6.62	7.44	8.26	9.90

KS TYPE 5							
25mm		18.67%	21.76	24.84	27.92	30.98	37.09
30		15.53	18.10	20.66	23.21	25.76	30.85
35		13.37	15.58	17.78	19.98	22.18	26.55
40		11.79	13.74	15.69	17.63	19.57	23.43
45		10.42	12.14	13.86	15.57	17.29	20.69
50		9.44	11.00	12.55	14.11	15.65	18.74
60		7.86	9.16	10.46	11.75	13.05	15.62
75		6.29	7.33	8.37	9.40	10.44	12.49
100		4.72	5.50	6.28	7.05	7.83	9.37

KS TYPE 6							
25mm		17.66%	20.57	23.48	26.37	29.26	35.01
30		14.69	17.11	19.52	21.93	24.33	29.12

35		12.64	14.73	16.81	18.88	20.95	25.06
40		11.15	12.99	14.83	16.66	18.48	22.11
45		9.85	11.48	13.10	14.71	16.33	19.53
50		8.92	10.39	11.86	13.33	14.79	17.69
60		7.44	8.66	9.89	11.11	12.32	14.74
75		5.95	6.93	7.91	8.88	9.86	11.79
100		4.46	5.20	5.93	6.66	7.39	8.85

KS TYPE 7

25mm		16.34%	19.02	21.70	24.37	27.03	32.32
30		13.79	16.06	18.32	20.58	22.82	27.29
35		11.87	13.83	15.77	17.71	19.64	23.49
40		10.47	12.20	13.92	15.63	17.33	20.72
45		9.25	10.78	12.29	13.80	15.31	18.31
50		8.38	9.76	11.13	12.50	13.87	16.58
60		6.98	8.13	9.28	10.42	11.56	13.82
75		5.59	6.51	7.42	8.33	9.24	11.05
100		4.19	4.88	5.57	6.25	6.93	8.29

KS TYPE 8

25		15.63	18.19	20.75	23.29	25.82	30.85
30		13.00	15.13	17.25	19.37	21.47	25.66
35		11.19	13.02	14.85	16.67	18.48	22.08
40		9.87	11.49	13.10	14.71	16.31	19.48
45		8.72	10.15	11.58	12.99	14.41	17.21
50		7.90	9.19	10.48	11.77	13.05	15.59
60		6.58	7.66	8.74	9.81	10.87	12.99
75		5.26	6.13	6.99	7.85	8.70	10.39
100		3.95	4.60	5.24	5.88	6.52	7.79

KS TYPE 9

25		14.56	16.94	19.30	21.66	24.00	28.65
30		12.10	14.08	16.05	18.01	19.96	23.83
35		10.42	12.12	13.82	15.50	17.18	20.51
40		9.19	10.70	12.19	13.68	15.16	18.10
45		8.12	9.45	10.77	12.08	13.39	15.98
50		7.35	8.56	9.75	10.94	12.13	14.48
60		6.13	7.13	8.13	9.12	10.11	12.06
75		4.90	5.70	6.50	7.30	8.09	9.65
100		3.68	4.28	4.88	5.47	6.06	7.24

KS TYPE 10

25		13.60	15.82	18.02	20.21	22.38	26.69
30		11.31	13.15	14.98	16.80	18.61	22.19
35		9.73	11.32	12.90	14.46	16.02	19.10
40		8.59	9.99	11.38	12.76	14.14	16.86
45		7.59	8.82	10.05	11.27	12.49	14.89
50		6.87	7.99	9.10	10.21	11.31	13.48
60		5.73	6.66	7.59	8.51	9.42	11.24
75		4.58	5.33	6.07	6.81	7.54	8.99
100		3.44	4.00	4.55	5.11	5.65	6.74

KS TYPE 11

25		12.56	14.60	16.63	18.64	20.63	24.57
30		10.45	12.14	13.83	15.50	17.15	20.43
35		8.99	10.45	11.90	13.34	14.77	17.59
40		7.94	9.22	10.50	11.77	13.03	15.52
45		7.01	8.15	9.28	10.40	11.51	13.71
50		6.35	7.38	8.40	9.42	10.42	12.41

60		5.29	6.15	7.00	7.85	8.69	10.34
75		4.23	4.92	5.60	6.28	6.95	8.28
100		3.17	3.69	4.20	4.71	5.21	6.21

KS TYPE 12

25		11.57	13.44	15.29	17.12	18.94	22.53
30		9.62	11.17	12.71	14.24	15.75	18.73
35		8.28	9.62	10.94	12.26	13.56	16.12
40		7.31	8.49	9.66	10.82	11.96	14.23
45		6.45	7.50	8.53	9.55	10.57	12.57
50		5.85	6.79	7.73	8.65	9.57	11.38
60		4.87	5.66	6.44	7.21	7.98	9.48
75		3.90	4.53	5.15	5.77	6.38	7.59
100		2.92	3.39	3.86	4.33	4.79	5.69