



1400, 1400FR, 51400, M1400 & M51400
 These supply diffusers feature a round neck and four cones.



1400A & 51400A
 These supply diffusers feature a round neck, four cones, and adjustable pattern controllers.



1450, 51450, M1450, & M51450
 These supply diffusers feature a round neck and three cones.



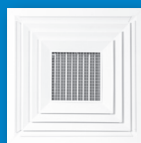
1450A & 51450A
 These supply diffusers feature a round neck, three cones, and adjustable pattern controllers.



SH, 5SH, SHFR, MSH, SHV, 5SHV, SHR, 5SHR, SHRV, 5SHRV, SHFB, & 5SHFB
 These supply diffusers feature a square neck, fixed louvered blades (1-way to 4-way), and removable core.



SHPC, 5SHPC, SHPCR, & 5SHPCR
 These supply diffusers feature a square neck, fixed louvered blades (1-way to 4-way), removable core, and adjustable pattern controllers.



5SH/CAD & 5SHR/CAD
 These supply diffusers feature fixed louvered blades with a center downblow.



SHRPLQ
 This supply diffuser features fixed louvered blades (1, 2, or 3 slots) with center plaque faceplate.



7000
 This combination supply/return diffuser features fixed louvered blades with removable egg-crate center frame.

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Introduction: 1450 Series

The 1450 series are square face, 3-cone, round neck ceiling diffusers and are available in a variety of frame styles to help meet the architectural requirements of today's ceilings. The spacing of the inner cones in relation to the backpan result in a design possessing anti-smudge characteristics, preventing the buildup of particles on the ceiling, which is achieved by minimizing the low pressure region inherent to most 4-way directional blow diffusers. Also known as concentric cone diffusers, 1450s are constructed of one-piece stamped cones which provide a clean, smooth appearance without mitered corner joints. The 1450 series is an excellent variable air volume diffuser as represented in its throw characteristics at lower airflows; at typical flow rates, isothermal throws of 9-16 feet make this diffuser ideal for mounting centrally in many spaces while providing high mixing rates in the space.

MODELS

- 1450 - Steel Louvered Diffuser
- 51450 - Aluminum Louvered Diffuser (Safe for MRI use; F22 mounting hardware by others.)
- M1450 - Hard metric, Lay-in T-Bar Steel Louvered Diffuser
- M51450 - Hard metric, Lay-in T-Bar Aluminum Louvered Diffuser (Safe for MRI use; F22 mounting hardware by others.)

PANEL SIZES

- 12"x12", 20"x20", 24"x24", and 24"x48"
- 300x300mm and 600x600mm



1450

FEATURES

- Three cones for optimum airflow control.
- Great choice for variable air volume spaces.
- Cones feature a one-piece stamped construction without mitered joints.
- Round neck for easy connection to round duct.
- Anti-smudge design prevents smeared ceilings.
- Two earthquake tabs are standard.

ACCESSORIES

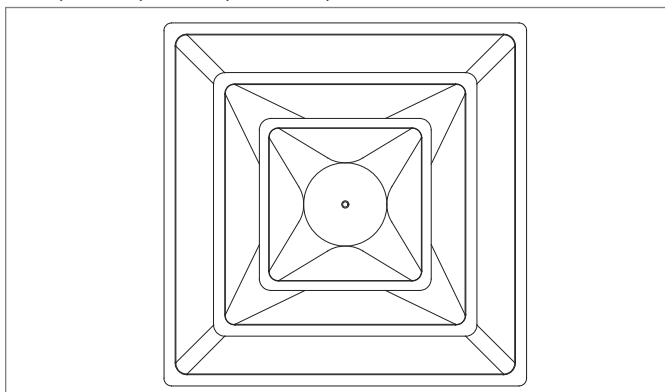
- Optional round damper.
- Optional insulated backpan (24"x24" only).

FINISHES

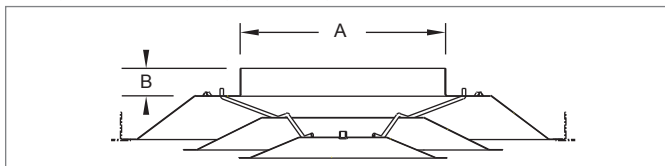
- Standard finish is #44 British White.
- Optional finishes available.

1450, 51450, M1450, M51450 Dimensional Information

1450, 51450, M1450, M51450, FACE VIEW



1450, 51450, M1450, M51450, CROSS SECTION



1450, 51450, M1450, M51450, 12"x12" & 300mm PANEL

Nominal Neck Size	Actual Neck Size	1450/M1450	51450/M51450
	A	B	B
06	5 7/8" (149)	1 1/4" (32)	1 1/2" (38)
08	7 7/8" (200)	1 1/4" (32)	1 1/2" (38)

1450, 51450, M1450, M51450, 24"x24" & 600mm PANEL

Nominal Neck Size	Actual Neck Size	1450/M1450	51450/M51450
	A	B	B
06	5 7/8" (149)	1 1/4" (32)	1 1/2" (38)
08	7 7/8" (200)	1 1/4" (32)	1 1/2" (38)
10	9 7/8" (251)	1 1/2" (38)	1 1/2" (38)
12	11 7/8" (302)	1 1/2" (38)	1 1/2" (38)
14	13 7/8" (352)	1 1/2" (38)	1 1/2" (38)
15	14 7/8" (378)	1 1/2" (38)	1 1/2" (38)

1450, 20"x20" PANEL

Nominal Neck Size	Actual Neck Size	1450/M1450	51450/M51450
	A	B	B
06	5 7/8" (149)	1" (25)	N/A
08	7 7/8" (200)		
08	9 7/8" (251)		

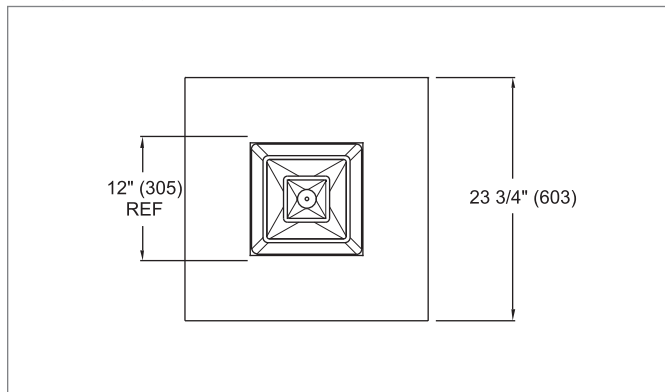
NOTE: Dimensions in parentheses are mm.

LOUVERED FACE DIFFUSERS

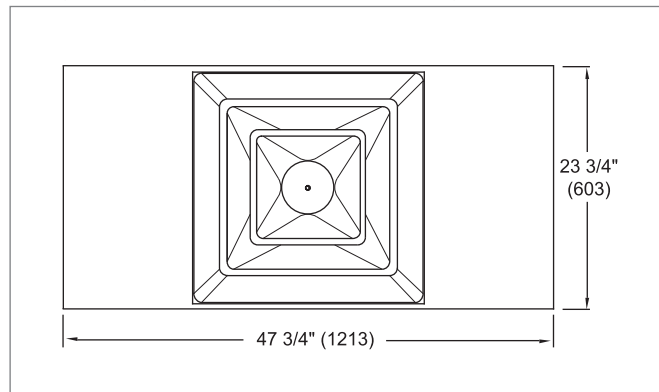
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1450, 51450 Oversize Dimensional Information

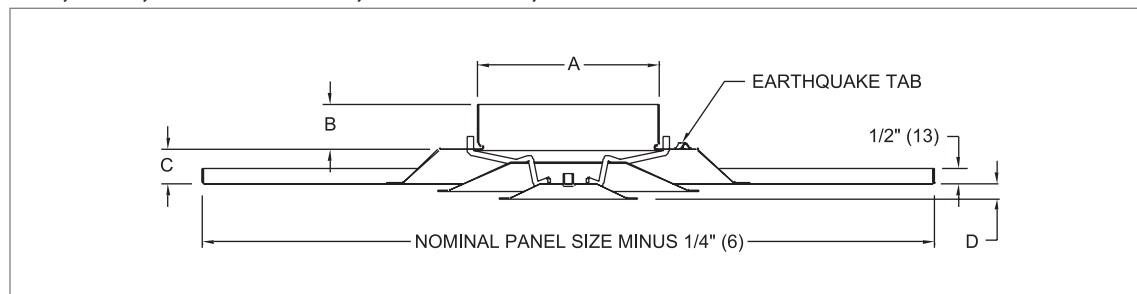
1450, 51450, FRAME 12, LAY-IN T-BAR, 24"x24" PANEL



1450, 51450, FRAME 23, LAY-IN T-BAR, 24"x48" PANEL



1450, 51450, CROSS SECTION, LAY-IN T-BAR, 24"x24" & 24"x48" PANEL



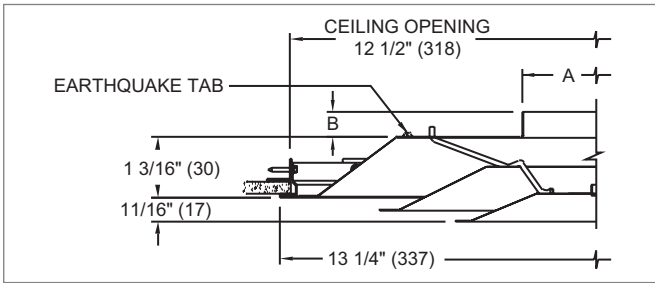
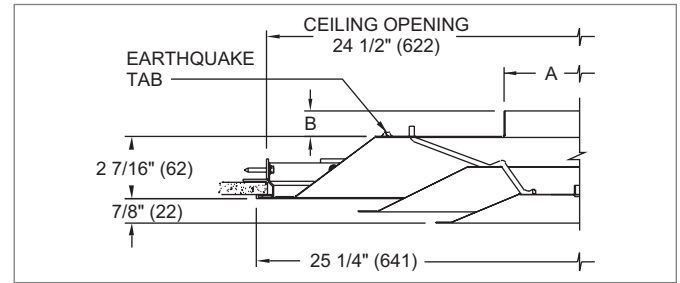
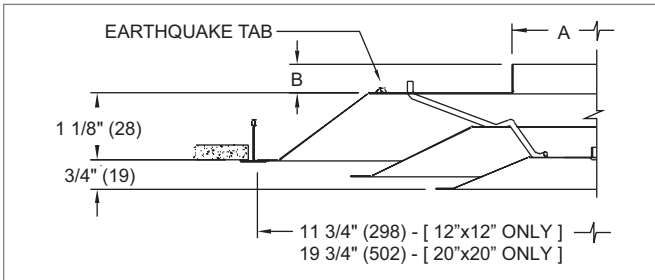
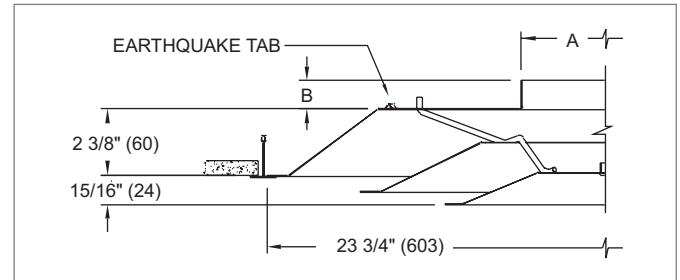
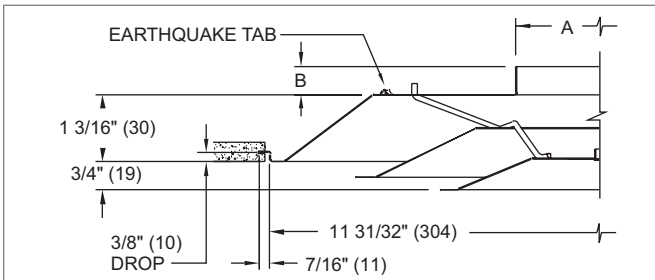
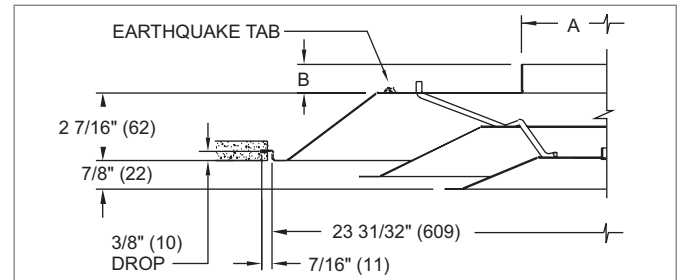
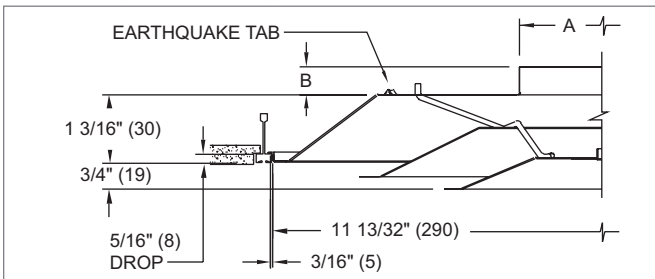
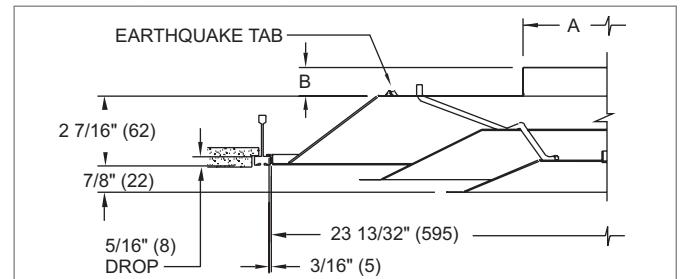
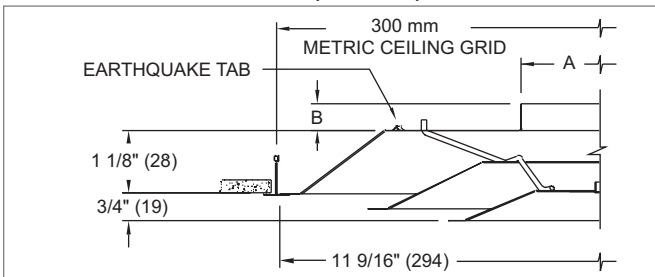
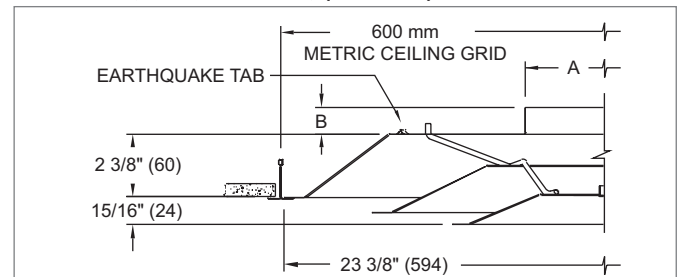
1450, 51450, FRAME 12, LAY-IN T-BAR, 24"x24" PANEL, OVERSIZE

Nominal Neck Size	Actual Neck Size	1450 Frame 12				51450 Frame 12		
		A	B	C	D	B	C	D
06	5 7/8" (149)	1 1/4" (32)	1 1/8" (29)	11/16" (17)	11/16" (17)	1 1/2" (38)	1 1/8" (29)	11/16" (17)
08	7 7/8" (200)	1 1/4" (32)	1 1/8" (29)	11/16" (17)	11/16" (17)	1 1/2" (38)	1 1/8" (29)	11/16" (17)

1450, 51450, FRAME 23, LAY-IN T-BAR, 24"x48" PANEL, OVERSIZE

Nominal Neck Size	Actual Neck Size	1450 Frame 23				51450 Frame 23		
		A	B	C	D	B	C	D
06	5 7/8" (149)	1 1/4" (32)	2 3/8" (60)	7/8" (22)	7/8" (22)	1 1/2" (38)	2 3/8" (60)	7/8" (22)
08	7 7/8" (200)	1 1/4" (32)	2 3/8" (60)	7/8" (22)	7/8" (22)	1 1/2" (38)	2 3/8" (60)	7/8" (22)
10	9 7/8" (251)	1 1/2" (38)	2 3/8" (60)	7/8" (22)	7/8" (22)	1 1/2" (38)	2 3/8" (60)	7/8" (22)
12	11 7/8" (302)	1 1/2" (38)	2 3/8" (60)	7/8" (22)	7/8" (22)	1 1/2" (38)	2 3/8" (60)	7/8" (22)
14	13 7/8" (352)	1 1/2" (38)	2 3/8" (60)	7/8" (22)	7/8" (22)	1 1/2" (38)	2 3/8" (60)	7/8" (22)
15	14 7/8" (378)	1 1/2" (38)	2 3/8" (60)	7/8" (22)	7/8" (22)	1 1/2" (38)	2 3/8" (60)	7/8" (22)

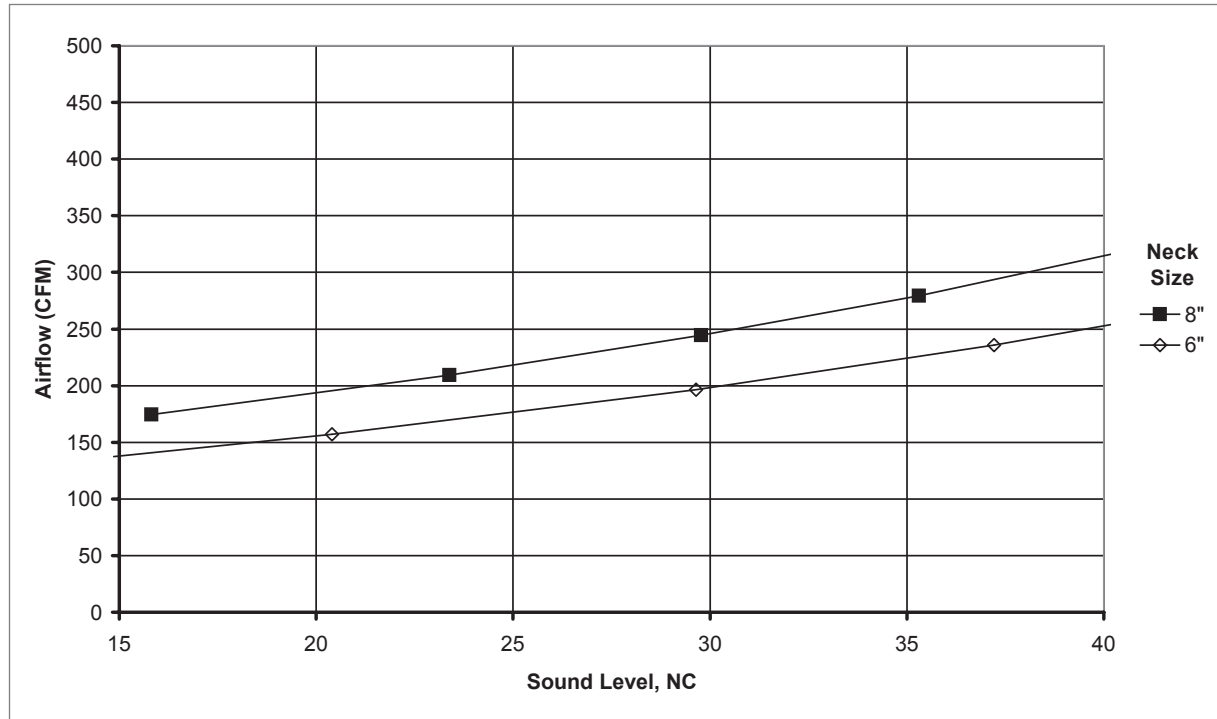
NOTE: Dimensions in parentheses are mm.

1450, 51450, M1450, M51450 Frame Styles
FRAME 22, SURFACE MOUNT, 12"x12" PANEL

FRAME 22, SURFACE MOUNT, 24"x24" PANEL

FRAME 23, LAY-IN T-BAR, 12"x12" & 20"x20" PANEL

FRAME 23, LAY-IN T-BAR, 24"x24" PANEL

FRAME 27, SPLINE, 12"x12" PANEL

FRAME 27, SPLINE, 24"x24" PANEL

FRAME 98, NARROW-T, 12"x12" PANEL

FRAME 98, NARROW-T, 24"x24" PANEL

FRAME 23, LAY-IN T-BAR, (300x300) METRIC

FRAME 23, LAY-IN T-BAR, (600x600) METRIC


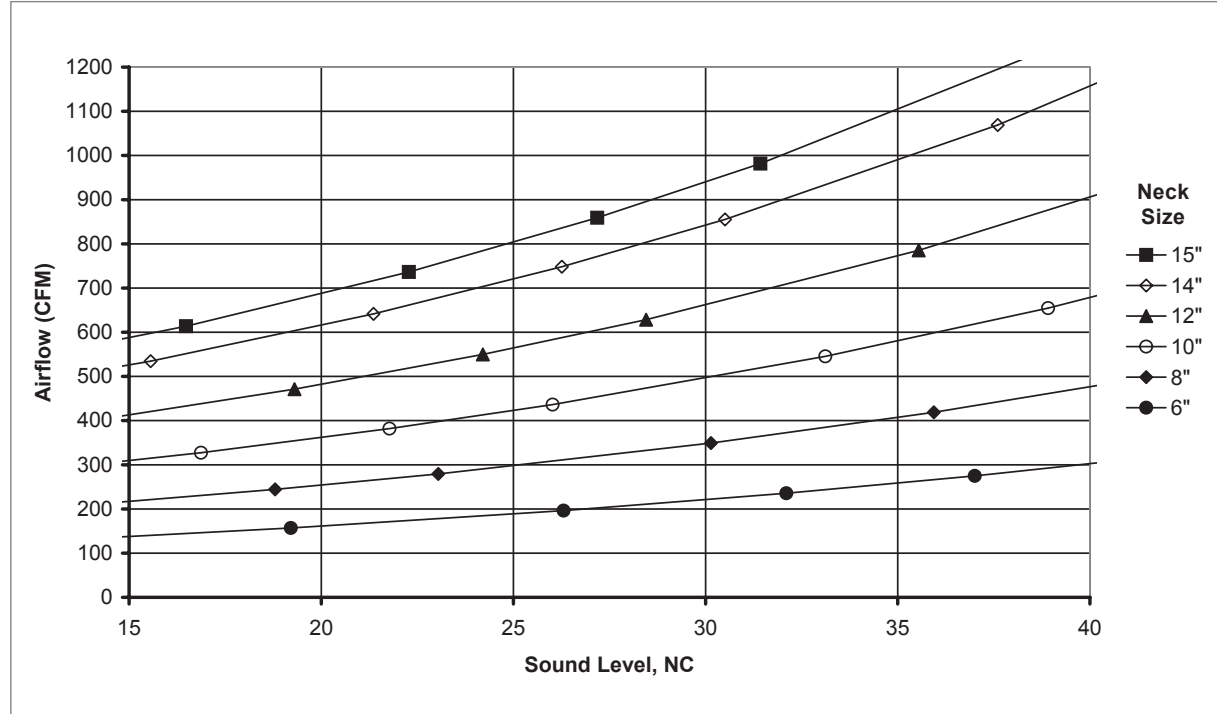
NOTES: Dimensions in parentheses are mm. For 'A' & 'B' dimensions, see page B1-23. Frame 22 includes separate surface mounting frame, as shown in the frame details above.

1450, 51450, M1450, M51450 Reference Charts

AIRFLOW VS. NC LEVEL: 1450 SERIES, 12"x12" & 300x300mm PANEL (NO DAMPER)

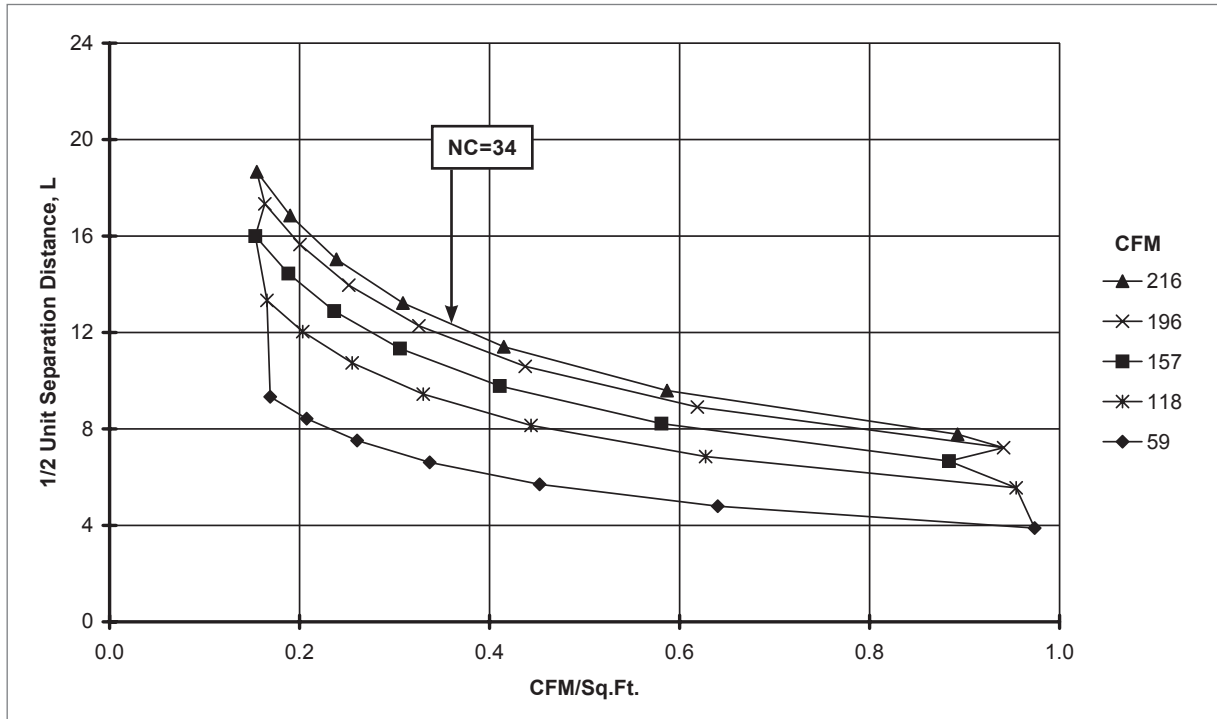
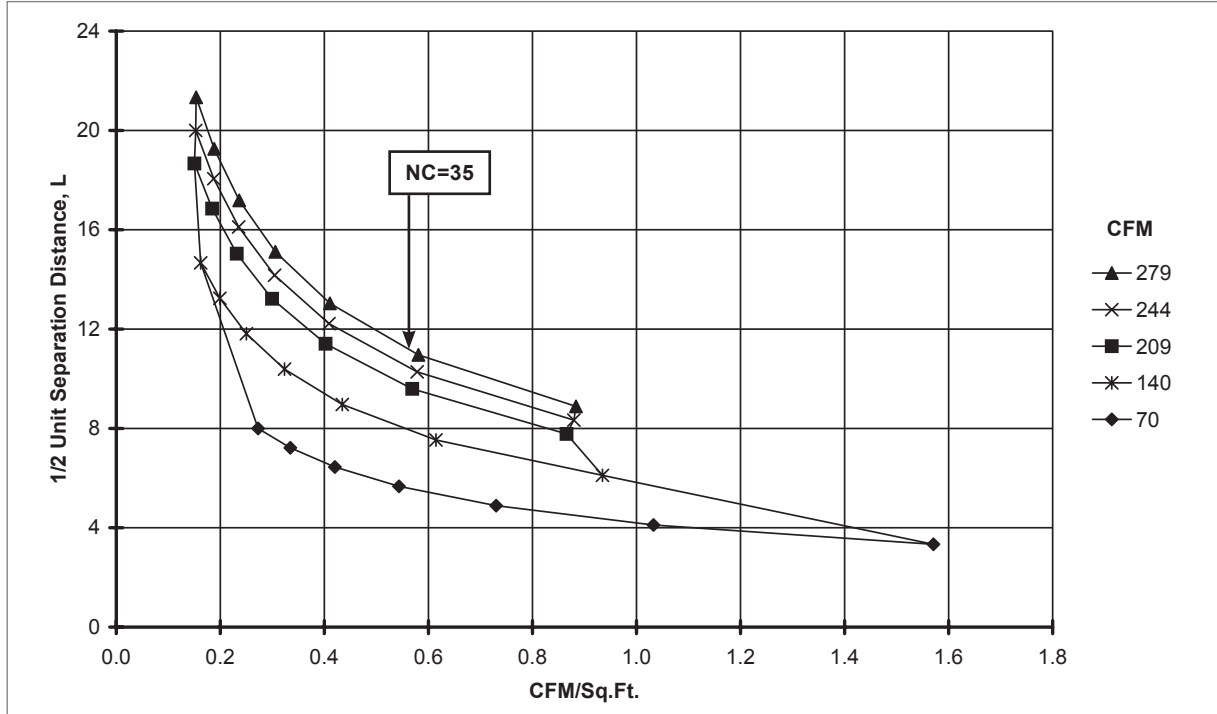


AIRFLOW VS. NC LEVEL: 1450 SERIES, 24"x24" & 600x600mm PANEL (NO DAMPER)



LOUVERED FACE DIFFUSERS

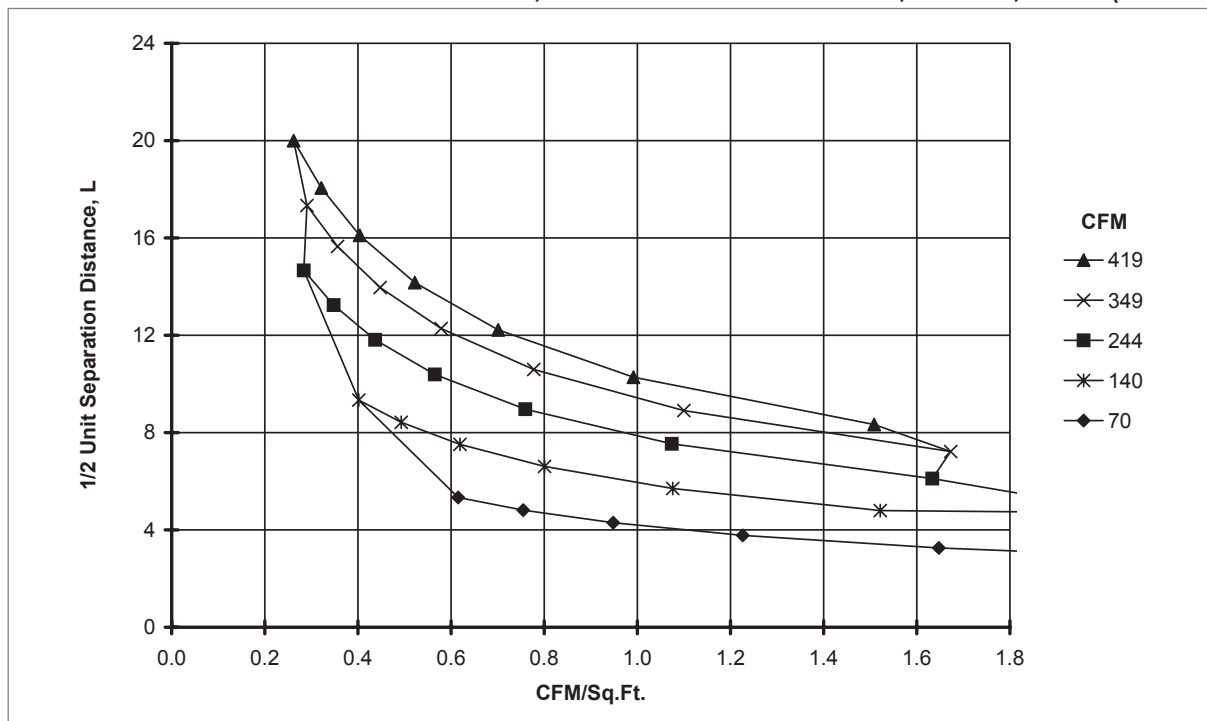
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1450, 51450, M1450, M51450 Reference Charts: Horizontal Throw
DIFFUSER SPACING FOR 80% ADPI: 1450 SERIES, 12"x12" & 300x300mm PANEL, 6" INLET, 4-WAY (NO DAMPER)

DIFFUSER SPACING FOR 80% ADPI: 1450 SERIES, 12"x12" & 300x300mm PANEL, 8" INLET, 4-WAY (NO DAMPER)


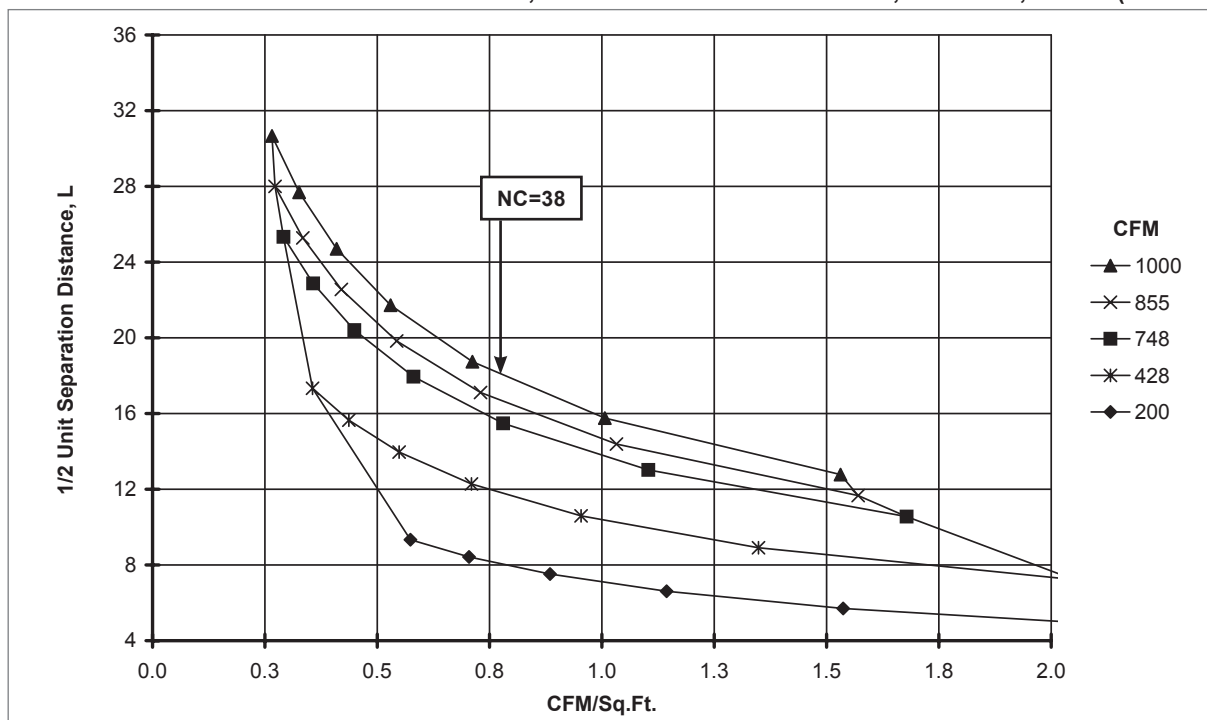
NOTES: Charts are at 20 BTUH/ft² loads. See the Engineering section of this catalog for instructions on how to read these charts and additional ADPI information.

1450, 51450, M1450, M51450 Reference Charts: Horizontal Throw

DIFFUSER SPACING FOR 80% ADPI: 1450 SERIES, 24"x24" & 600x600mm PANEL, 8" INLET, 4-WAY (NO DAMPER)



DIFFUSER SPACING FOR 80% ADPI: 1450 SERIES, 24"x24" & 600x600mm PANEL, 14" INLET, 4-WAY (NO DAMPER)



NOTES: Charts are at 20 BTUH/ft² loads. See the Engineering section of this catalog for instructions on how to read these charts and additional ADPI information.

1450, 51450, M1450, M51450 Performance Data: Horizontal Throw

IP/METRIC DATA: 1450, 51450, M1450, M51450, 12"x12" & 300x300mm PANEL (NO DAMPER)

	IP Data					NC	Metric Data											
	Neck Vel	Air Flow	Pt	Ps	Throw		Neck Vel	Air Flow	Pt	Ps	Throw							
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7	
6" Dia.	200	39	.009	0.006	1 - 2 - 4	-	1.02	19	2.2	1.6	0.4 - 0.7 - 1.4	28	-	-	-	-	-	
	300	59	.020	0.015	2 - 3 - 7	-	1.52	28	5.0	3.6	0.7 - 1.0 - 2.0	32	-	-	-	-	-	
	500	98	.056	0.040	4 - 6 - 9	-	2.54	46	13.9	10.1	1.1 - 1.7 - 2.9	37	22	18	17	-	-	
	600	118	.081	0.058	4 - 7 - 10	-	3.05	56	20.1	14.5	1.4 - 2.0 - 3.1	38	27	23	22	17	-	
	700	137	.110	0.079	5 - 8 - 11	15	3.56	65	27.3	19.7	1.6 - 2.4 - 3.4	40	31	27	26	23	-	
	800	157	.143	0.103	6 - 8 - 12	20	4.06	74	35.7	25.7	1.8 - 2.6 - 3.6	41	34	30	29	29	13	
	900	177	.181	0.131	7 - 9 - 13	25	4.57	83	45.1	32.6	2.0 - 2.7 - 3.9	42	37	33	33	34	18	
	1000	196	.224	0.161	7 - 9 - 13	30	5.08	93	55.7	40.2	2.3 - 2.9 - 4.1	43	39	36	36	39	23	
	1100	216	.271	0.195	8 - 10 - 14	34	5.59	102	67.4	48.6	2.5 - 3.0 - 4.3	44	42	38	38	43	27	
8" Dia.	200	70	.020	0.018	2 - 3 - 6	-	1.02	33	5.1	4.4	0.5 - 0.9 - 1.8	37	14	11	-	-	-	
	300	105	.046	0.040	3 - 4 - 9	-	1.52	49	11.4	10.0	0.9 - 1.4 - 2.7	41	24	21	15	-	-	
	400	140	.081	0.071	4 - 6 - 11	-	2.03	66	20.2	17.8	1.2 - 1.8 - 3.4	43	31	28	23	14	-	
	500	175	.127	0.111	5 - 7 - 13	16	2.54	82	31.6	27.7	1.5 - 2.3 - 3.8	45	36	34	29	24	13	
	600	209	.183	0.160	6 - 9 - 14	23	3.05	99	45.5	39.9	1.8 - 2.7 - 4.2	47	41	38	34	32	21	
	700	244	.249	0.218	7 - 10 - 15	30	3.56	115	62.0	54.4	2.1 - 3.2 - 4.5	49	45	42	38	38	28	
	800	279	.325	0.285	8 - 11 - 16	35	4.06	132	80.9	71.0	2.4 - 3.4 - 4.8	50	48	46	42	44	34	
	900	314	.411	0.361	9 - 12 - 17	40	4.57	148	102.4	89.9	2.7 - 3.6 - 5.1	51	51	49	45	49	39	
	1000	349	.508	0.446	10 - 13 - 18	45	5.08	165	126.5	110.9	3.0 - 3.8 - 5.4	52	53	51	48	54	44	

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection software for performance data not shown, including octave band data.

1450, 51450, M1450, M51450 Performance Data: Horizontal Throw

IP/METRIC DATA: 1450, 51450, M1450, M51450, 24"x24" & 600x600mm PANEL (NO DAMPER)

	IP Data					NC	Metric Data					Octave Band, dB						
	Neck Vel	Air Flow	Pt	Ps	Throw		Neck Vel	Air Flow	Pt	Ps	Throw							
	FPM	CFM	"WG	"WG	ft		m/s	L/s	Pa	Pa	m	2	3	4	5	6	7	
6" Dia.	200	39	.005	0.003	0 - 1 - 3	-	1.02	19	1.3	0.6	0.1 - 0.3 - 0.9	14	-	-	-	-	-	
	300	59	.011	0.006	1 - 2 - 4	-	1.52	28	2.9	1.5	0.3 - 0.6 - 1.3	21	13	-	-	-	-	
	500	98	.032	0.016	2 - 4 - 7	-	2.54	46	7.9	4.0	0.7 - 1.1 - 2.1	31	24	22	17	-	-	
	600	118	.046	0.023	3 - 4 - 8	-	3.05	56	11.4	5.8	0.9 - 1.3 - 2.3	34	28	27	23	-	-	
	700	137	.062	0.032	3 - 5 - 8	15	3.56	65	15.5	7.9	1.0 - 1.5 - 2.5	37	31	31	27	15	-	
	800	157	.081	0.042	4 - 6 - 9	19	4.06	74	20.3	10.3	1.1 - 1.7 - 2.7	39	34	34	31	20	11	
	900	177	.103	0.053	4 - 6 - 9	23	4.57	83	25.7	13.1	1.3 - 1.9 - 2.9	41	37	37	34	24	15	
	1000	196	.127	0.065	5 - 7 - 10	26	5.08	93	31.7	16.2	1.4 - 2.1 - 3.0	43	39	40	37	28	19	
	1100	216	.154	0.079	5 - 7 - 10	29	5.59	102	38.3	19.6	1.6 - 2.2 - 3.2	45	41	42	40	32	22	
8" Dia.	200	70	.006	0.003	1 - 1 - 4	-	1.02	33	1.5	0.9	0.2 - 0.3 - 1.1	17	-	-	-	-	-	
	300	105	.013	0.008	1 - 3 - 6	-	1.52	49	3.3	1.9	0.3 - 0.8 - 1.7	24	16	12	-	-	-	
	500	175	.037	0.022	3 - 5 - 9	-	2.54	82	9.3	5.4	0.9 - 1.4 - 2.8	33	27	25	21	-	-	
	600	209	.054	0.031	4 - 6 - 10	14	3.05	99	13.3	7.8	1.1 - 1.7 - 3.1	37	31	30	26	15	-	
	700	244	.073	0.042	4 - 7 - 11	19	3.56	115	18.2	10.6	1.3 - 2.0 - 3.4	39	34	34	31	20	11	
	800	279	.095	0.055	5 - 7 - 12	23	4.06	132	23.7	13.8	1.5 - 2.3 - 3.6	42	37	37	34	25	16	
	900	314	.121	0.070	6 - 8 - 13	27	4.57	148	30.0	17.4	1.7 - 2.6 - 3.8	44	40	40	38	29	20	
	1000	349	.149	0.086	6 - 9 - 13	30	5.08	165	37.1	21.5	1.9 - 2.8 - 4.0	46	42	43	41	33	24	
	1100	384	.180	0.105	7 - 10 - 14	33	5.59	181	44.8	26.1	2.1 - 3.0 - 4.2	47	45	45	44	37	27	
10" Dia.	200	109	.007	0.005	1 - 1 - 5	-	1.02	51	1.8	1.1	0.2 - 0.4 - 1.4	19	-	-	-	-	-	
	300	164	.016	0.010	1 - 3 - 7	-	1.52	77	4.0	2.6	0.4 - 1.0 - 2.1	26	18	14	-	-	-	
	500	273	.044	0.029	4 - 6 - 12	11	2.54	129	11.0	7.1	1.2 - 1.8 - 3.5	35	29	27	23	12	-	
	600	327	.064	0.041	5 - 7 - 13	17	3.05	154	15.8	10.2	1.4 - 2.1 - 3.9	39	33	32	29	19	-	
	700	382	.087	0.056	5 - 8 - 14	22	3.56	180	21.5	13.9	1.7 - 2.5 - 4.2	41	37	36	33	24	15	
	800	436	.113	0.073	6 - 9 - 15	26	4.06	206	28.1	18.2	1.9 - 2.8 - 4.5	44	40	39	37	29	19	
	900	491	.143	0.093	7 - 11 - 16	30	4.57	232	35.6	23.0	2.1 - 3.2 - 4.8	46	42	42	40	34	24	
	1000	545	.177	0.114	8 - 12 - 17	33	5.08	257	44.0	28.4	2.4 - 3.5 - 5.0	48	45	45	43	37	27	
	1100	600	.214	0.138	9 - 12 - 17	36	5.59	283	53.2	34.4	2.6 - 3.7 - 5.3	50	47	47	46	41	31	
12" Dia.	200	157	.008	0.006	1 - 2 - 6	-	1.02	74	2.1	1.5	0.2 - 0.5 - 1.7	21	11	-	-	-	-	
	300	236	.019	0.013	2 - 4 - 8	-	1.52	111	4.7	3.3	0.5 - 1.2 - 2.6	28	20	16	11	-	-	
	500	393	.053	0.037	5 - 7 - 14	14	2.54	185	13.1	9.2	1.4 - 2.1 - 4.3	37	31	29	26	15	-	
	600	471	.076	0.053	6 - 8 - 15	19	3.05	222	18.9	13.3	1.7 - 2.6 - 4.7	40	35	34	31	22	12	
	700	550	.103	0.073	7 - 10 - 17	24	3.56	259	25.7	18.1	2.0 - 3.0 - 5.1	43	39	38	35	28	18	
	800	628	.135	0.095	7 - 11 - 18	28	4.06	297	33.5	23.6	2.3 - 3.4 - 5.4	46	42	41	39	33	22	
	900	707	.170	0.120	8 - 13 - 19	32	4.57	334	42.4	29.9	2.6 - 3.8 - 5.7	48	44	44	43	37	27	
	1000	785	.210	0.148	9 - 14 - 20	36	5.08	371	52.4	36.9	2.8 - 4.3 - 6.1	50	47	47	46	41	30	
	1100	864	.255	0.179	10 - 15 - 21	39	5.59	408	63.4	44.6	3.1 - 4.5 - 6.4	51	49	49	48	44	34	
14" Dia.	200	214	.010	0.008	1 - 2 - 7	-	1.02	101	2.5	1.9	0.3 - 0.6 - 2.0	22	13	-	-	-	-	
	300	321	.023	0.017	2 - 4 - 10	-	1.52	151	5.6	4.2	0.6 - 1.4 - 3.0	30	22	18	13	-	-	
	400	428	.040	0.030	4 - 7 - 13	-	2.03	202	10.0	7.5	1.1 - 2.0 - 4.0	35	28	25	21	-	-	
	500	535	.063	0.047	5 - 8 - 16	16	2.54	252	15.6	11.7	1.7 - 2.5 - 5.0	39	33	31	27	18	-	
	600	641	.090	0.068	7 - 10 - 18	21	3.05	303	22.5	16.9	2.0 - 3.0 - 5.5	42	37	35	33	25	15	
	700	748	.123	0.092	8 - 11 - 19	26	3.56	353	30.6	23.0	2.3 - 3.5 - 5.9	45	41	39	37	30	20	
	800	855	.160	0.120	9 - 13 - 21	31	4.06	404	39.9	30.0	2.6 - 4.0 - 6.3	47	43	42	41	35	25	
	900	962	.203	0.152	10 - 15 - 22	34	4.57	454	50.5	38.0	3.0 - 4.5 - 6.7	49	46	45	44	40	29	
	1000	1069	.251	0.188	11 - 16 - 23	38	5.08	505	62.4	46.9	3.3 - 5.0 - 7.1	51	48	48	47	44	33	
15" Dia.	200	245	.011	0.008	1 - 2 - 7	-	1.02	116	2.7	2.1	0.3 - 0.6 - 2.1	23	13	-	-	-	-	
	300	368	.025	0.019	2 - 5 - 11	-	1.52	174	6.1	4.7	0.6 - 1.5 - 3.2	30	22	18	13	-	-	
	400	491	.044	0.034	4 - 7 - 14	-	2.03	232	10.9	8.4	1.1 - 2.1 - 4.3	35	29	26	22	11	-	
	500	614	.068	0.053	6 - 9 - 18	16	2.54	290	17.0	13.1	1.8 - 2.7 - 5.3	39	34	31	28	19	-	
	600	736	.098	0.076	7 - 11 - 19	22	3.05	347	24.5	18.9	2.1 - 3.2 - 5.9	43	38	36	34	26	16	
	700	859	.134	0.103	8 - 12 - 21	27	3.56	405	33.3	25.7	2.5 - 3.7 - 6.3	45	41	40	38	32	21	
	800	982	.175	0.135	9 - 14 - 22	31	4.06	463	43.5	33.5	2.8 - 4.3 - 6.8	48	44	43	42	37	26	
	900	1104	.221	0.171	11 - 16 - 24	35	4.57	521	55.0	42.5	3.2 - 4.8 - 7.2	50	47	46	45	41	30	
	1000	1227	.273	0.211	12 - 18 - 25	39	5.08	579	67.9	52.4	3.5 - 5.3 - 7.6	52	49	49	48	45	34	

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection software for performance data not shown, including octave band data.

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1450, 51450 Suggested Specification & Configuration

1. SERIES: (XXXXX)

1450 - 3-Cone, Steel Ceiling Diffuser
 51450 - 3-Cone, Aluminum Ceiling Diffuser

2. PATTERN: (XX)

04 - 4-Way

3. ROUND NECK: (XX)

6", 8", 10", 12", 14", or 15"

4. FRAME: (XXX)

F12 - 12" Module in 24" F23 Panel *
 F22 - Surface Mount **
 F23 - Lay-in T-Bar
 F27 - Spline
 F98 - Narrow-T

5. PANEL: (XX)x(XX)

12"x12"
 20"x20" †
 24"x24"
 24"x48"

6. ACCESSORIES: (XX)

00 - No Accessories
 IB - Insulated Blanket ***
 R6 - Molded Insulation***

7. FINISH: (XX)

01 - Mill
 10 - Alumican
 35 - Black
 44 - British White

Round damper not included in configuration code.

* Frame 12 (F12) available with 6" and 8" neck dimensions only.

** Frame 22 (F22) includes separate aluminum plaster frame shipped loose for field installation.

*** Frame 23 (F23), 24" x 24" panel and 6", 8", 10", and 12" neck dimensions only.

† 20"x20" panel only available with 1450.

1450, 51450

The drop cone, square face diffuser shall be Krueger model 1450 (steel) or 51450 (aluminum). The 51450 shall be constructed of 100% aluminum. The 1450 and 51450 models shall be constructed of three precision die-stamped cones. The back cone shall have an integrally drawn neck for duct connections on 20"x20", 24"x24", and 24"x48" panel sized units. Fabricated collars are only acceptable on 12"x12" panel sized units. The inner cone assembly shall be welded to the back cone and have a hole with removable plug for easy optional damper adjustment. The surface mount 1450 and 51450 shall ship with an auxiliary aluminum surface mounting frame for easy installation. Diffusers shall be constructed of 22 gage steel (1450) or 0.040" aluminum (51450) with integral earthquake tabs.

Optional round damper shall be constructed of heavy gage steel. Damper shall be operable from the face of the diffuser.

PERFORMANCE

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

FINISH

The paint finish shall be #44 British White and be an anodic acrylic paint, baked at 315° for 30 minutes. The paint thickness shall be 0.8 - 1.0 mils, gloss at 60° per ASTM D523-89 of 50 - 85%, pencil hardness per ASTM D3363-92A of HB - H, crosshatch adhesion per ASTM D3359-83 of 4B - 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours.

SAMPLE CONFIGURATION: 1450 - 04 - 6 - F12 - 24x24 - 00 - 44