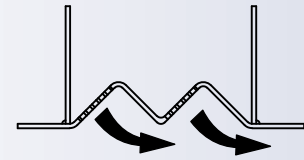


California Title 24 & National Institute of Corrections compliant for Suicide Resistance

Security Linear Diffuser

1-Way Horizontal Blow Pattern

1/8" Dia Holes on 3/16" Stg Centers (40% FA) Pattern P19



24" Long	5"ø	CFM	60	74	89	103	118	132	147	161	176	190
		P _T	.05	.08	.11	.15	.19	.24	.30	.36	.42	.50
		NC	<15	<15	17	22	26	29	32	35	38	40
		Throw	5 9 18	7 11 22	9 13 24	10 16 26	12 18 28	13 20 29	15 22 31	16 23 32	18 24 34	19 25 35
	6"ø	CFM	80	96	111	127	142	158	173	189	204	220
		P _T	.06	.08	.11	.14	.18	.22	.27	.32	.37	.43
		NC	<15	15	20	24	27	31	34	36	39	41
		Throw	8 12 23	10 14 25	11 17 27	13 19 29	14 21 30	16 23 32	17 24 34	19 25 35	21 26 36	22 27 38
	8"ø	CFM	100	118	136	153	171	189	207	224	242	260
		P _T	.08	.11	.15	.19	.24	.29	.35	.41	.48	.55
		NC	15	20	24	28	31	34	37	39	42	44
		Throw	10 15 25	12 18 28	14 20 30	15 22 32	17 24 33	19 25 35	21 26 37	22 27 38	23 28 40	24 29 41
36" Long	6"ø	CFM	100	119	139	158	178	197	217	236	256	275
		P _T	0.05	0.07	0.10	0.12	0.16	0.19	0.23	0.28	0.33	0.38
		NC	<15	15	20	24	27	31	34	37	39	41
		Throw	8 12 25	10 15 28	11 17 30	13 20 32	15 22 34	16 24 36	18 26 37	19 28 39	21 29 41	23 30 42
	7"ø	CFM	120	142	164	187	209	231	253	276	298	320
		P _T	0.06	0.09	0.11	0.15	0.19	0.23	0.27	0.32	0.38	0.43
		NC	<15	18	23	27	30	33	36	39	41	43
		Throw	10 15 28	12 18 30	14 20 33	15 23 35	17 26 37	19 27 39	21 29 41	23 30 42	24 31 44	26 32 46
	8"ø	CFM	140	164	189	213	238	262	287	311	336	360
		P _T	0.08	0.10	0.14	0.18	0.22	0.27	0.32	0.38	0.44	0.50
		NC	<15	19	23	27	30	33	36	38	40	43
		Throw	12 17 30	14 20 33	16 23 35	18 26 37	20 28 39	22 29 41	24 30 43	26 32 45	27 33 47	28 34 48
48" Long	8"ø	CFM	140	173	207	240	273	307	340	373	407	440
		P _T	0.05	0.07	0.10	0.13	0.17	0.22	0.27	0.32	0.39	0.45
		NC	<15	15	20	25	29	32	35	38	41	43
		Throw	9 13 27	11 17 30	13 20 33	15 23 35	17 26 38	20 28 40	22 30 42	24 31 44	26 32 46	28 34 48
	9"ø	CFM	170	204	239	273	308	342	377	411	446	480
		P _T	0.06	0.09	0.12	0.16	0.20	0.25	0.30	0.36	0.43	0.49
		NC	<15	16	21	25	29	32	35	38	40	43
		Throw	11 16 30	13 20 33	15 23 35	17 26 38	20 28 40	22 30 42	24 31 44	26 33 46	28 34 48	29 35 50
	10"ø	CFM	180	218	256	293	331	369	407	444	482	520
		P _T	0.06	0.09	0.13	0.17	0.22	0.27	0.33	0.39	0.46	0.54
		NC	<15	<15	20	24	29	32	36	39	42	44
		Throw	11 17 31	14 21 34	16 24 36	19 28 39	21 29 41	24 31 44	26 32 46	28 34 48	29 35 50	30 37 52
60" Long	8"ø	CFM	180	216	251	287	322	358	393	429	464	500
		P _T	0.05	0.08	0.10	0.14	0.17	0.21	0.26	0.31	0.36	0.41
		NC	<15	17	22	26	29	33	36	39	41	43
		Throw	10 15 30	12 18 32	14 21 35	16 24 37	18 27 40	20 29 42	22 31 44	24 32 46	26 34 48	28 35 49
	10"ø	CFM	220	258	296	333	371	409	447	484	522	560
		P _T	0.07	0.09	0.12	0.15	0.19	0.23	0.27	0.32	0.37	0.43
		NC	<15	17	22	25	29	32	35	37	40	42
		Throw	12 18 33	14 21 35	16 24 38	18 28 40	20 30 42	23 32 45	25 33 47	27 34 49	29 36 50	30 37 52
	12"ø	CFM	240	280	320	360	400	440	480	520	560	600
		P _T	0.07	0.10	0.13	0.16	0.20	0.24	0.29	0.34	0.39	0.45
		NC	<15	18	22	26	29	32	35	37	40	42
		Throw	13 20 34	15 23 37	18 26 39	20 30 42	22 31 44	24 33 46	26 34 48	29 36 50	30 37 52	31 38 54

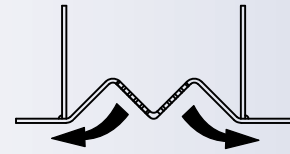
See performance data notes on page 4

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California Title 24 & National Institute of Corrections compliant for Suicide Resistance

Security Linear Diffuser 2-Way Horizontal Blow Pattern

1/8" Dia Holes on 3/16" Stg Centers (40% FA) Pattern P19



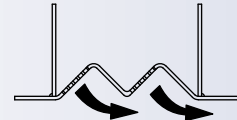
24" Long	5"ø	CFM	80	94	109	123	138	152	167	181	196	210
		P _T	.09	.12	.16	.21	.26	.32	.38	.45	.52	.60
		NC	<15	19	23	27	30	33	36	39	41	43
		Throw	6 9 16	7 10 17	8 12 19	9 13 20	10 15 21	11 16 22	12 16 23	13 17 24	14 18 25	15 18 26
	6"ø	CFM	90	107	123	140	157	173	190	207	223	240
		P _T	.07	.10	.14	.17	.22	.27	.32	.38	.44	.51
		NC	<15	18	23	27	30	34	37	39	42	44
		Throw	6 10 17	8 11 19	9 13 20	10 15 21	11 16 23	12 17 24	14 18 25	15 18 26	16 19 27	16 20 28
	8"ø	CFM	110	129	148	167	186	204	223	242	261	280
		P _T	.10	.14	.18	.23	.28	.34	.41	.48	.56	.64
		NC	18	22	27	30	33	36	39	42	44	46
		Throw	8 12 19	9 14 20	11 15 22	12 16 23	13 17 25	15 18 26	16 19 27	16 20 28	17 21 29	17 21 30
36" Long	6"ø	CFM	120	139	158	177	196	214	233	252	271	290
		P _T	0.07	0.10	0.12	0.16	0.19	0.23	0.27	0.32	0.37	0.42
		NC	15	20	24	27	31	33	36	39	41	43
		Throw	7 10 20	8 12 21	9 14 23	10 15 24	11 17 25	12 19 26	14 19 27	15 20 29	16 21 30	17 22 31
	7"ø	CFM	140	162	184	207	229	251	273	296	318	340
		P _T	0.08	0.11	0.14	0.18	0.22	0.26	0.31	0.37	0.42	0.49
		NC	18	22	26	30	33	36	38	41	43	45
		Throw	8 12 21	9 14 23	11 16 24	12 18 26	13 19 27	15 20 29	16 21 30	17 22 31	18 23 32	19 23 33
	8"ø	CFM	160	184	209	233	258	282	307	331	356	380
		P _T	0.10	0.14	0.18	0.22	0.27	0.32	0.38	0.44	0.51	0.58
		NC	18	22	26	29	32	35	38	40	42	44
		Throw	9 14 23	11 16 24	12 18 26	14 19 27	15 20 29	16 21 30	18 22 32	19 23 33	20 24 34	20 25 35
48" Long	8"ø	CFM	170	202	234	267	299	331	363	396	428	460
		P _T	0.07	0.10	0.13	0.17	0.21	0.26	0.31	0.36	0.43	0.49
		NC	<15	19	24	28	31	34	37	40	42	44
		Throw	8 11 21	9 14 23	11 16 25	12 18 26	13 20 28	15 21 29	16 22 31	18 23 32	19 24 33	20 24 35
	9"ø	CFM	190	224	259	293	328	362	397	431	466	500
		P _T	0.08	0.11	0.14	0.18	0.23	0.28	0.34	0.40	0.46	0.54
		NC	<15	19	23	27	31	34	37	39	42	44
		Throw	9 13 22	10 15 24	12 18 26	13 19 28	15 21 29	16 22 31	18 23 32	19 24 33	20 25 35	21 25 36
	10"ø	CFM	220	256	291	327	362	398	433	469	504	540
		P _T	0.09	0.13	0.17	0.21	0.26	0.31	0.37	0.43	0.50	0.57
		NC	<15	19	23	27	31	34	37	40	42	45
		Throw	10 15 24	12 17 26	13 19 27	15 21 29	16 22 31	18 23 32	19 24 34	20 25 35	21 26 36	22 26 37
60" Long	8"ø	CFM	190	224	259	293	328	362	397	431	466	500
		P _T	0.06	0.08	0.11	0.14	0.18	0.22	0.26	0.31	0.36	0.41
		NC	16	21	26	29	33	36	39	42	44	46
		Throw	7 10 19	8 12 21	9 14 22	10 15 24	11 17 25	13 19 27	14 20 28	15 20 29	16 21 30	17 22 31
	10"ø	CFM	240	276	311	347	382	418	453	489	524	560
		P _T	0.08	0.11	0.14	0.17	0.21	0.25	0.30	0.35	0.40	0.45
		NC	17	21	25	29	32	35	37	40	42	44
		Throw	8 13 22	10 14 23	11 16 25	12 18 26	13 19 27	15 20 28	16 21 30	17 22 31	18 23 32	19 23 33
	12"ø	CFM	260	298	336	373	411	449	487	524	562	600
		P _T	0.09	0.12	0.15	0.19	0.23	0.27	0.32	0.37	0.42	0.48
		NC	16	20	25	28	32	35	37	40	42	45
		Throw	9 14 22	10 16 24	12 18 26	13 19 27	14 20 28	16 21 30	17 22 31	18 23 32	19 23 33	20 24 34

See performance data notes on page 4

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California Title 24 & National Institute of Corrections compliant for Suicide Resistance
Security Linear Diffuser • 1/8" Dia Holes on 3/16" Stg Centers (40% FA) Pattern P19

1-Way Horizontal Blow Pattern Pressurized Ceiling Plenum



24" Long	CFM	100			120			140			160			180			200			220			240			260			280		
	P _s	.09			.13			.17			.22			.28			.35			.42			.50			.59			.68		
	NC	<15			<15			<15			20			25			29			33			36			39			42		
	Throw	12	18	25	14	20	28	16	21	30	19	23	32	20	24	34	21	25	36	22	27	38	23	28	39	24	29	41	25	30	43
36" Long	CFM	120			144			169			193			218			242			267			291			316			340		
	P _s	.05			.08			.10			.14			.17			.21			.26			.31			.36			.42		
	NC	<15			<15			15			20			25			29			33			36			39			42		
	Throw	11	16	26	13	20	29	15	22	31	18	24	34	20	25	36	22	27	38	23	28	39	24	29	41	25	30	43	26	31	45
48" Long	CFM	140			182			224			267			309			351			393			436			478			520		
	P _s	.04			.07			.10			.14			.19			.24			.31			.38			.45			.54		
	NC	<15			<15			<15			18			24			29			33			37			40			43		
	Throw	9	16	27	14	20	31	17	24	34	20	26	37	23	28	40	25	30	43	26	32	45	27	34	48	29	35	50	30	37	52
60" Long	CFM	200			260			320			380			440			500			560			620			680			740		
	P _s	0.05			0.08			0.13			0.18			0.24			0.31			0.39			0.48			0.58			0.68		
	NC	<15			<15			<15			17			22			27			31			35			38			42		
	Throw	12	18	30	16	24	34	20	27	38	23	29	41	25	31	44	27	33	47	29	35	50	30	37	52	32	39	55	33	40	57

2-Way Horizontal Blow Pattern Pressurized Ceiling Plenum



24" Long	CFM	130			149			168			187			206			224			243			262			281			300		
	P _s	0.15			0.19			0.25			0.30			0.37			0.44			0.52			0.60			0.69			0.79		
	NC	<15			16			21			25			28			32			35			37			40			42		
	Throw	11	15	22	13	16	23	14	17	24	15	18	26	16	19	27	16	20	28	17	21	29	18	22	31	18	22	32	19	23	33
36" Long	CFM	200			224			249			273			298			322			347			371			396			420		
	P _s	0.15			0.18			0.23			0.27			0.32			0.38			0.44			0.50			0.57			0.64		
	NC	<15			18			22			26			29			32			35			37			40			42		
	Throw	13	17	24	14	18	26	16	19	27	16	20	28	17	21	29	18	22	31	18	22	32	19	23	33	20	24	34	20	25	35
48" Long	CFM	250			287			323			360			397			433			470			507			543			580		
	P _s	0.13			0.17			0.21			0.26			0.32			0.38			0.45			0.52			0.60			0.68		
	NC	<15			17			21			25			29			32			35			38			41			43		
	Throw	12	17	24	14	18	25	16	19	27	16	20	29	17	21	30	18	22	31	19	23	33	20	24	34	20	25	35	21	26	36
60" Long	CFM	340			387			433			480			527			573			620			667			713			760		
	P _s	0.14			0.19			0.23			0.29			0.35			0.41			0.48			0.56			0.64			0.72		
	NC	<15			17			22			25			29			32			35			38			40			43		
	Throw	14	18	26	16	19	27	17	21	29	18	22	31	18	23	32	19	24	33	20	25	35	21	25	36	21	26	37	22	27	38

See performance data notes on page 4

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Test Standard

- ANSI / ASHRAE Standard 70 "Method of Testing the Performance of Air Outlets and Air Inlets"

Sound Levels

- NC is the Noise Criteria curve that will not be exceeded at the airflow operating point. This is determined by assuming a 10 dB (ref: 10^{-12} watts) room attenuation that is subtracted from the sound power levels (L_w) in each of the 2nd thru 7th octave bands

Anemostat Model AD Engineered Plenum

- Data obtained with an Anemostat Model AD engineered plenum is a ducted assembly with the plenum inlet diameter as shown.

Pressurized Ceiling Plenum

- Data obtained is non-ducted by pressurizing the ceiling space above the diffuser. In this case, $P_s = P_T$

Throw

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to Terminal Velocities (V_T) = 150, 100, & 50 fpm, with the jet attached to a surface

- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream

- Velocity: Feet Per Minute (fpm)

Pressure

- P_T represents Total Pressure, inches of water
- P_s represents Static Pressure, inches of water

MODEL RRPL is California Title 24 & National Institute of Corrections compliant for Suicide Resistance

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