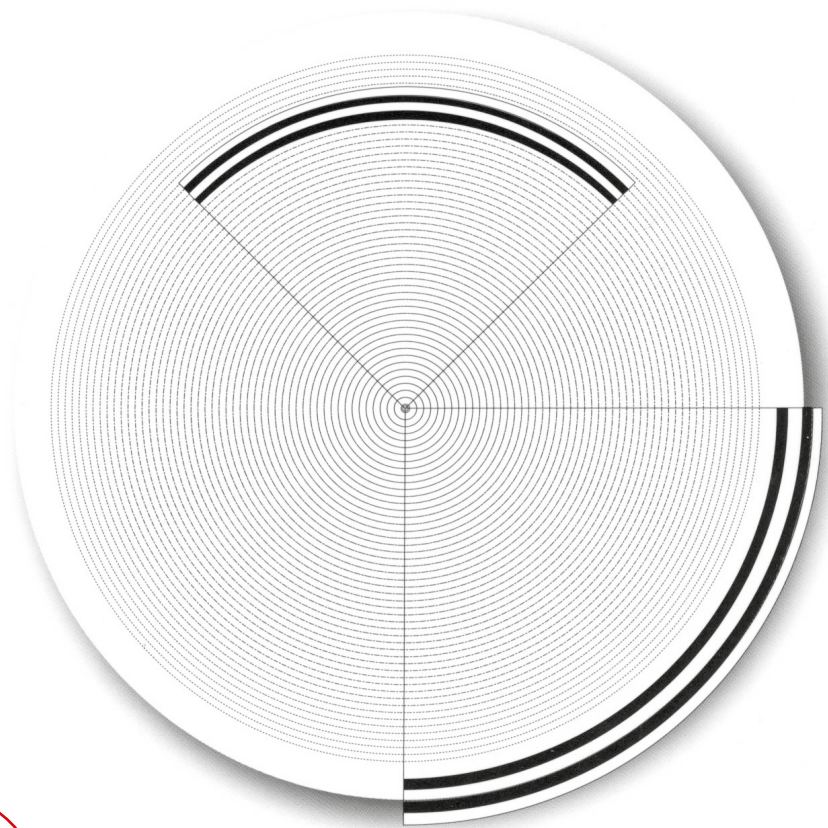


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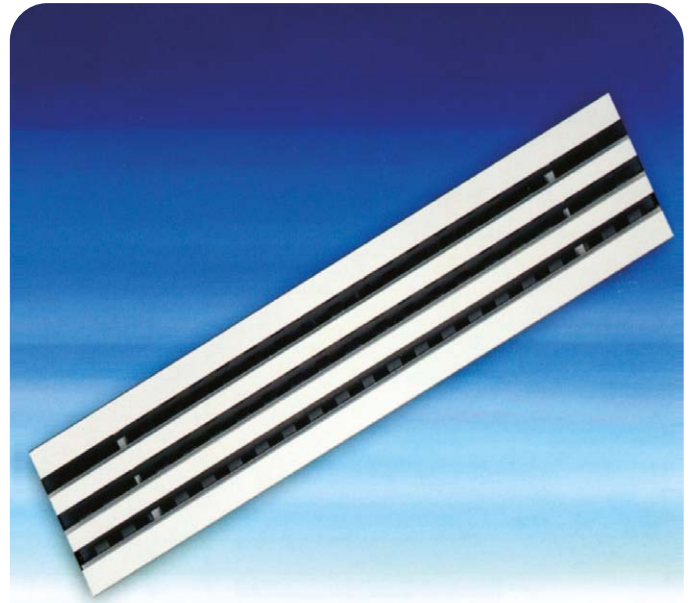
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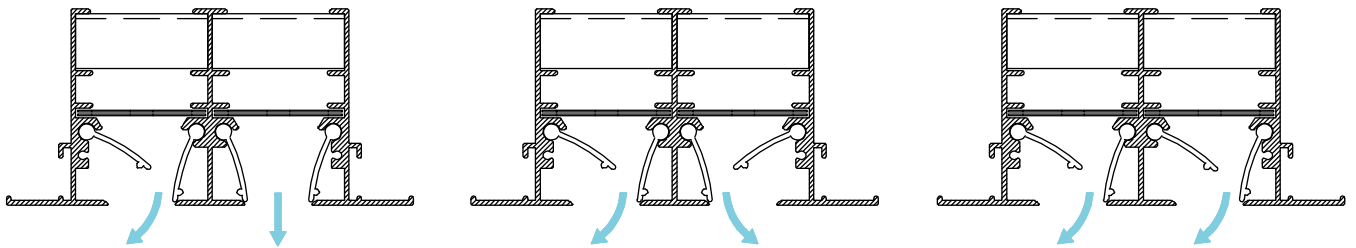
- >> **LINEAR SLOT DIFFUSERS** 1 - 4
- >> **PERFORMANCE DATA** 5 - 6



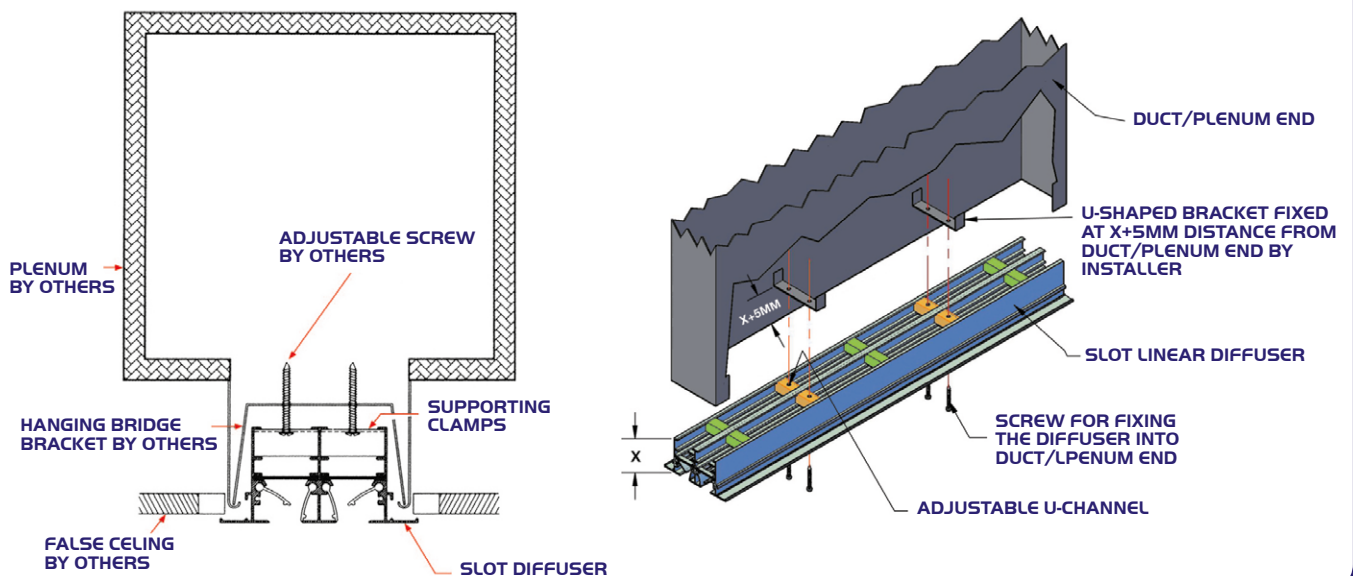
- Flush - mounted linear diffuser.
- Available in 1 to 6 slots.
- Lengths are available on request.
- 180° fully adjustable air flow pattern by mean of two air deflector per slot.
- Available with hit-and-miss damper which controls the air flow rate without affecting the air flow pattern and works as an equalizing grid.
- For each slot the air deflector and hit-and-miss damper are individually adjustable.
- Removable straight type end cap allows extending or shortening slot diffuser line without replacing existing pieces.
- The deflector and the hit and miss damper are powder coated with black color as standard.
- Linear slot diffuser is powder coated to RAL codes. Also can be in anodized finish.



Deflectors & Air Pattern



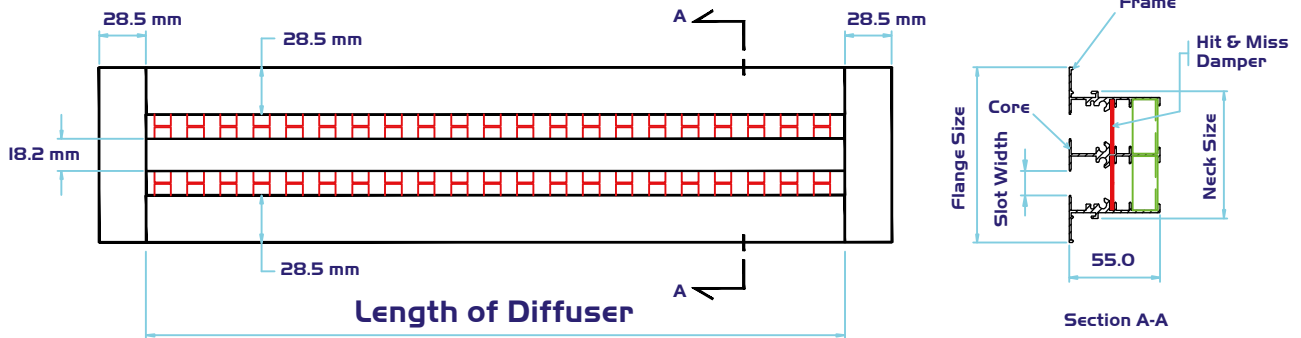
LINEAR SLOT DIFFUSER FIXING DETAILS





END CAPS FOR LINEAR SLOT DIFFUSERS

STRAIGHT END-CAP (RLD & SLD)

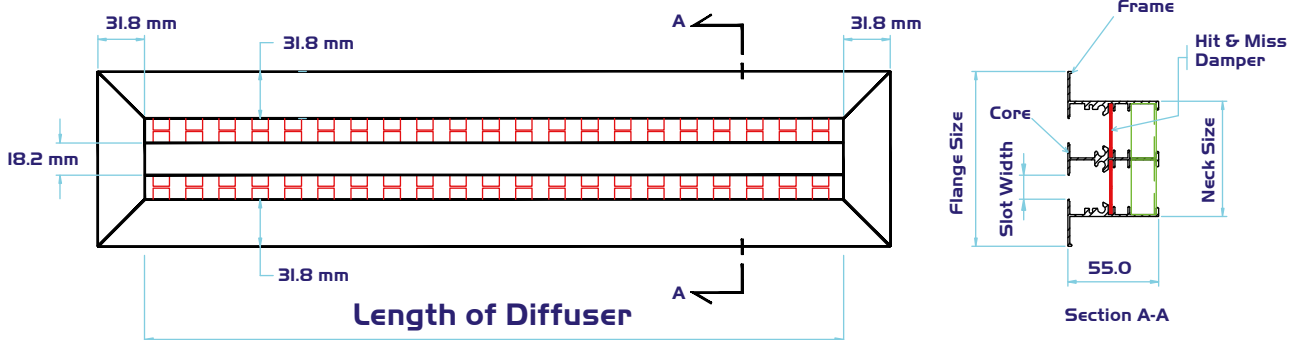


A) Slot diffuser dimensions with STRAIGHT END CAP:

Number of slots	1			2			3			4			5			6		
Slot Width, mm	16	20	25	16	20	25	16	20	25	16	20	25	16	20	25	16	20	25
Neck Dimension, mm	43	48	53	79	86	97	113	124	140	148	162	184	180	200	228	214	238	271
Face Dimension, mm	71	78	83	108	115	127	144	154	171	176	191	213	209	230	258	242	271	310

* Above dimension with ± 1.5 mm tolerance.

MITERED END-CAP (RLD45 & SLD45)



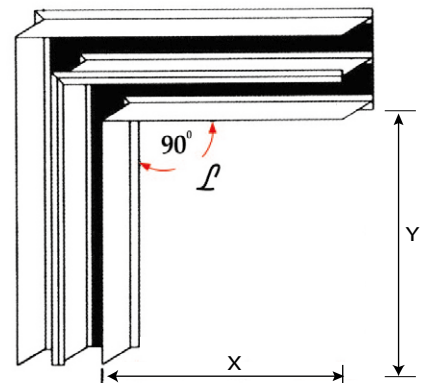
B) Slot diffuser dimensions with MITERED END CAP:

Number of slots	1			2			3			4			5			6		
Slot Width, mm	16	20	25	16	20	25	16	20	25	16	20	25	16	20	25	16	20	25
Neck Dimension, mm	35	40	45	71	78	89	105	116	133	140	155	177	172	193	221	206	232	264
Face Dimension, mm	79	84	89	115	121	133	149	161	178	184	200	221	216	236	265	250	275	308

* Above dimension with ± 1.5 mm tolerance.

Corner pieces

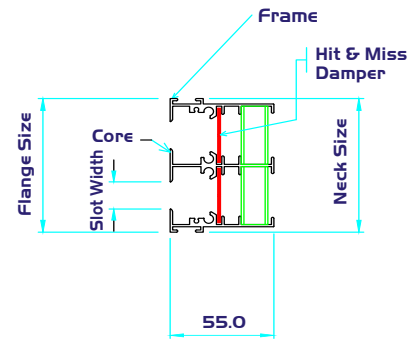
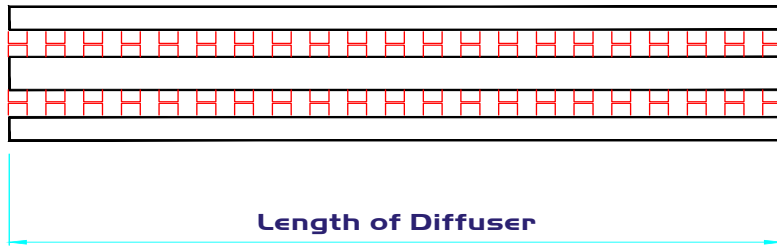
- Available in 1 to 6 slot
- Available in any combination of X.Y
(X=300 mm, Y=300 mm as Standard)
 \angle° : 45°, 90°, 135°





LINEAR SLOT DIFFUSERS

2 SLOT DIFFUSER FLANGELESS (RLD & SLD)

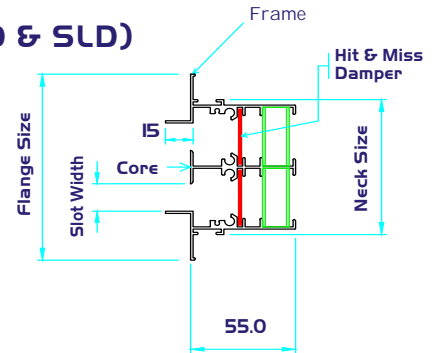
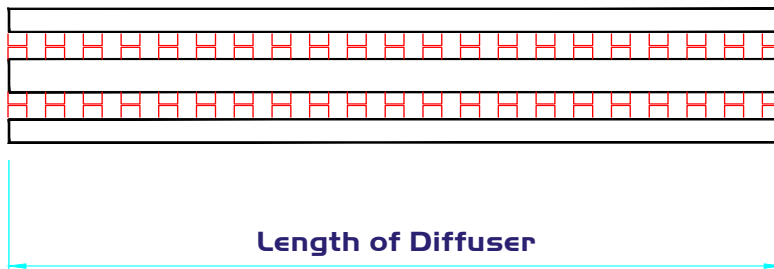


C) Slot diffuser dimensions FLANGELESS (w/o curves & mitered) :

Number of slots	1			2			3			4			5			6		
Slot Width, mm	16	20	25	16	20	25	16	20	25	16	20	25	16	20	25	16	20	25
Neck Dimension, mm	43	48	53	78	85	97	112	123	140	146	161	184	181	200	228	215	238	272
Face Dimension, mm	43	48	53	78	85	97	112	123	140	146	161	184	181	200	228	215	238	272

* Above dimension with ± 1.5 mm tolerance.

2 SLOT DIFFUSER - 2 FLANGE RECESSED TYPE(RLD & SLD)

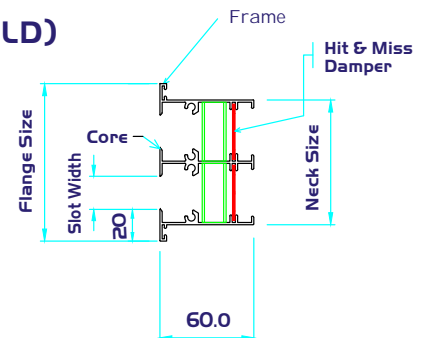
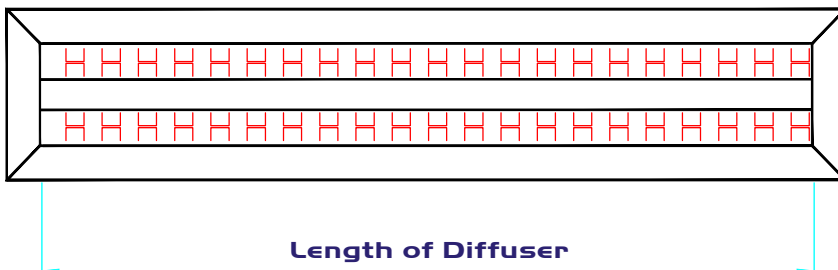


C) Slot diffuser dimensions 2 flange (w/o curves & mitered) :

Number of slots	1			2			3			4			5			6		
Slot Width, mm	16	20	25	16	20	25	16	20	25	16	20	25	16	20	25	16	20	25
Neck Dimension, mm	43	48	53	79	86	97	113	124	140	148	162	184	180	200	228	214	238	271
Face Dimension, mm	76	81	86	111	118	130	140	156	173	179	194	217	214	233	261	248	271	305

* Above dimension with ± 1.5 mm tolerance.

2 SLOT DIFFUSER 20MM FLANGE 45 deg (RLD & SLD)

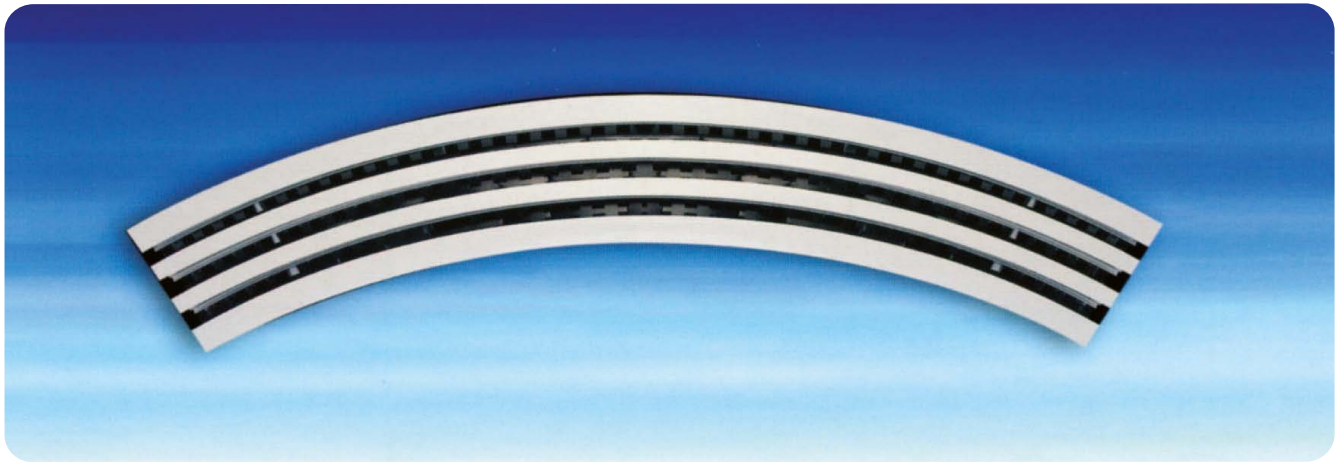


C) Slot diffuser dimensions 20mm FLANGES (w/o curves & corners) :

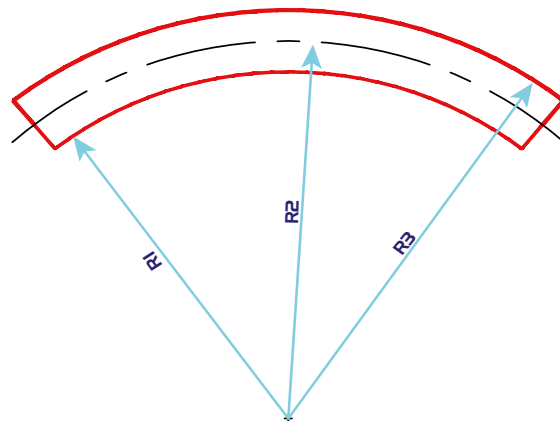
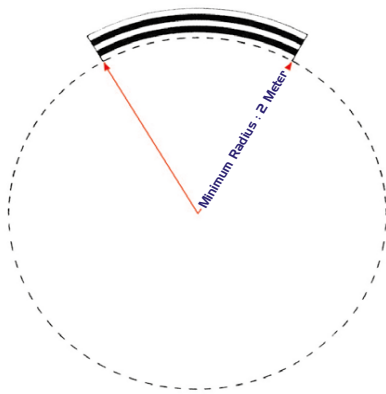
Number of slots	1			2			3			4			5			6		
Slot Width, mm	16	20	25	16	20	25	16	20	25	16	20	25	16	20	25	16	20	25
Neck Dimension, mm	35	40	45	71	77	89	105	116	132	140	154	176	173	192	220	207	230	264
Face Dimension, mm	59	64	69	95	101	113	129	140	156	164	178	200	197	216	244	231	254	288

* Above dimension with ± 1.5 mm tolerance.





CURVED OPENING FOR CURVED LINEAR SLOT DIFFUSER



Note: * Please specify the proper radius (R1, R2 or R3) when ordering curved linear slot diffusers.

Ordering Key:

R	L	D	F	CRV	1.5m	*	3SLT	(20)
SLD: SUPPLY LINEAR DIFFUSER (WITH AIR PATTERN DEFLECTORS AND HIT & MISS DAMPER) RLD: RETURN LINEAR DIFFUSER (WITH SQUARE PUNCHED STRIP, WITHOUT DEFLECTORS & HIT & MISS DAMPER) SLD/RLD: COMBINED								
-: STRAIGHT END CAPS F: WITH FLANGE WIDTH 13.4MM 45: MITERED END CAPS F1: FLANGELESS F2: WITH 20MM FLANGE 45 DEG F3: 2 FLANGE RECESSED TYPE								
-: STRAIGHT LINEAR DIFFUSER CRV: CURVED LINEAR DIFFUSER (ONLY WITH RLD) COR: CORNER (STANARD WITH 2 X 300MM SIDES & 90° ANGLE, OTHER SIDES & ANGLES CAN BE FABRICATED); EXAMPLE: RLD/COR 300MM*300MM (90)*25SLT(16)								
LENGTH IN METER								
NUMBER OF SLOTS								
SLOT WIDTH: 16MM, 20MM (STANDARD) OR 25MM								





VERTICAL DISCHARGE

SLD / RLD - SUPPLY

SLOTS	CFM PER METER	SLOT WIDTH											
		3/5"				4/5"				1"			
		A _k /m (Ft ² /m)	P _s (IWG)	Throw (Ft)	NC	A _k /m (Ft ² /m)	P _s (IWG)	Throw (Ft)	NC	A _k /m (Ft ² /m)	P _s (IWG)	Throw (Ft)	NC
1	50	0.066	0.036	1 - 3 - 5	<15	0.082	0.023	1 - 3 - 5	<15	0.102	0.010	1 - 3 - 5	<15
	75		0.081	2 - 5 - 7	16		0.052	2 - 5 - 7	15		0.023	2 - 5 - 7	<15
	100		0.144	3 - 7 - 9	23		0.092	3 - 6 - 9	22		0.041	3 - 5 - 8	<15
	125		0.225	5 - 8 - 11	29		0.144	4 - 7 - 10	27		0.061	3 - 6 - 9	18
	150		0.328	5 - 9 - 12	36		0.210	5 - 8 - 11	33		0.086	4 - 7 - 10	23
	175		0.445	7 - 10 - 12	40		0.285	6 - 9 - 12	36		0.113	5 - 8 - 11	26
	200		0.589	8 - 11 - 14	46		0.377	7 - 10 - 13	41		0.150	6 - 9 - 12	30
2	50	0.175	0.013	1 - 1 - 2	<15	0.221	0.008	1 - 1 - 2	<15	0.270	0.006	1 - 1 - 1	<15
	100		0.047	2 - 3 - 4	17		0.030	1 - 1 - 2	16		0.012	1 - 1 - 2	<15
	150		0.105	3 - 4 - 6	23		0.067	1 - 3 - 5	22		0.039	1 - 2 - 3	17
	200		0.188	4 - 6 - 8	35		0.120	3 - 5 - 7	32		0.082	2 - 4 - 6	22
	250		0.292	5 - 7 - 9	41		0.187	4 - 6 - 8	37		0.126	3 - 5 - 7	26
	300		0.422	6 - 8 - 10	49		0.270	5 - 7 - 9	43		0.194	4 - 6 - 8	31
	350		0.578	7 - 9 - 11	54		0.370	6 - 8 - 10	47		0.266	5 - 7 - 9	34
3	100	0.254	0.022	1 - 2 - 3	<15	0.321	0.014	1 - 1 - 2	<15	0.393	0.009	1 - 1 - 1	<15
	150		0.048	2 - 3 - 4	17		0.031	1 - 2 - 3	16		0.024	1 - 1 - 2	<15
	200		0.086	3 - 5 - 6	23		0.055	2 - 4 - 6	22		0.038	2 - 3 - 5	16
	250		0.134	4 - 6 - 8	31		0.086	4 - 5 - 7	29		0.049	3 - 4 - 6	20
	300		0.194	5 - 7 - 9	38		0.124	5 - 6 - 8	34		0.081	4 - 5 - 7	24
	350		0.263	6 - 8 - 10	43		0.168	6 - 7 - 9	38		0.109	5 - 6 - 8	27
	400		0.344	8 - 9 - 11	48		0.220	7 - 8 - 10	42		0.142	6 - 7 - 9	30
4	150	0.320	0.030	1 - 2 - 5	<15	0.402	0.019	1 - 2 - 5	<15	0.495	0.009	1 - 1 - 2	<15
	200		0.052	3 - 4 - 6	17		0.033	2 - 3 - 5	16		0.020	1 - 2 - 3	<15
	250		0.081	4 - 5 - 7	23		0.052	3 - 4 - 6	22		0.036	2 - 3 - 4	<15
	300		0.117	5 - 6 - 7	28		0.075	4 - 5 - 6	26		0.043	3 - 4 - 5	18
	350		0.159	6 - 7 - 8	34		0.102	4 - 6 - 7	31		0.077	4 - 5 - 6	22
	400		0.208	7 - 8 - 9	36		0.133	5 - 7 - 8	33		0.102	4 - 6 - 7	23
	450		0.266	8 - 9 - 10	41		0.170	6 - 8 - 9	37		0.121	5 - 7 - 8	26
5	200	0.389	0.034	2 - 4 - 6	<15	0.490	0.022	1 - 3 - 5	<15	0.602	0.013	1 - 2 - 4	<15
	250		0.053	3 - 4 - 7	16		0.034	2 - 3 - 6	15		0.021	1 - 2 - 5	<15
	300		0.077	4 - 5 - 8	20		0.049	3 - 4 - 6	20		0.039	2 - 3 - 5	15
	350		0.105	5 - 6 - 8	26		0.067	4 - 5 - 7	25		0.051	3 - 4 - 6	17
	400		0.136	6 - 7 - 9	30		0.087	5 - 6 - 8	28		0.069	4 - 5 - 7	19
	450		0.172	7 - 8 - 9	34		0.110	6 - 7 - 8	31		0.074	5 - 6 - 7	22
	500		0.213	8 - 9 - 10	39		0.136	7 - 8 - 9	35		0.111	6 - 7 - 8	25
6	250	0.455	0.038	2 - 3 - 6	<15	0.578	0.024	1 - 2 - 5	<15	0.708	0.017	1 - 1 - 3	<15
	300		0.055	3 - 4 - 6	16		0.035	2 - 3 - 5	15		0.026	1 - 2 - 4	<15
	350		0.075	4 - 5 - 7	19		0.048	3 - 4 - 6	18		0.033	2 - 3 - 5	<15
	400		0.097	5 - 6 - 8	23		0.062	4 - 5 - 7	22		0.048	3 - 4 - 6	16
	450		0.123	6 - 7 - 9	26		0.079	5 - 6 - 8	25		0.058	4 - 5 - 7	17
	500		0.153	7 - 8 - 10	29		0.098	6 - 7 - 9	27		0.067	5 - 6 - 8	18
	600		0.219	8 - 9 - 11	39		0.140	7 - 8 - 10	35		0.106	6 - 7 - 9	25

SYMBOLS

- CFM Per Meter : Air volume in cubic feet per 1 meter length
- A_k : Effective face area in square feet per meter
- P_s : Static pressure in inch water gauge
- Th : Throw in feet
- NC : Noise Criteria

CONDITIONS

- * Supply
- * Vertical Discharge flow pattern
- * Noise Criteria Values are based on (10 dB) room attenuation.
- * Damper is fully open
- * The tested specimens were of 1 meter length

NOTES

- * The large throw values are based on the minimum terminal velocity of 50 fpm.
- * The middle throw values are based on the middle terminal velocity of 100 fpm
- * The small throw values are based on the maximum terminal velocity of 150 fpm.



LINEAR SLOT DIFFUSERS



HORIZONTAL DISCHARGE

SLD / RLD - SUPPLY

SLOTS	CFM PER METER	SLOT WIDTH											
		3/5"				4/5"				1"			
		A _k / m (Ft ² / m)	P _s (IWG)	Throw (Ft)	NC	A _k / m (Ft ² / m)	P _s (IWG)	Throw (Ft)	NC	A _k / m (Ft ² / m)	P _s (IWG)	Throw (Ft)	NC
1	50	0.046	0.048	1 - 4 - 8	17	0.059	0.031	1 - 4 - 8	18	0.076	0.020	1 - 3 - 7	<15
	75		0.109	4 - 7 - 11	26		0.070	3 - 6 - 10	25		0.045	3 - 5 - 9	17
	100		0.195	6 - 10 - 15	36		0.125	5 - 9 - 14	33		0.080	5 - 8 - 13	23
	125		0.305	9 - 15 - 23	43		0.195	8 - 13 - 21	38		0.125	7 - 12 - 19	27
	150		0.438	14 - 19 - 29	49		0.280	12 - 17 - 26	43		0.179	10 - 15 - 23	31
2	50	0.119	0.016	3 - 6 - 9	18	0.150	0.010	3 - 5 - 8	<15	0.185	0.006	3 - 5 - 7	<15
	100		0.063	5 - 11 - 19	20		0.040	4 - 10 - 17	20		0.026	3 - 9 - 15	<15
	150		0.141	6 - 13 - 25	34		0.090	5 - 12 - 22	31		0.058	4 - 11 - 20	22
	200		0.247	10 - 20 - 30	45		0.158	8 - 18 - 28	40		0.101	7 - 16 - 25	29
	250		0.391	14 - 25 - 35	51		0.250	12 - 23 - 33	45		0.160	10 - 21 - 30	33
3	100	0.191	0.031	4 - 6 - 12	16	0.240	0.020	3 - 5 - 11	17	0.297	0.013	3 - 5 - 10	<15
	150		0.069	6 - 10 - 20	24		0.044	5 - 9 - 18	23		0.028	4 - 8 - 15	15
	200		0.122	7 - 15 - 25	34		0.078	6 - 13 - 23	31		0.050	5 - 12 - 21	22
	250		0.191	10 - 20 - 32	43		0.122	9 - 18 - 29	38		0.078	8 - 16 - 26	27
	300		0.291	15 - 24 - 36	48		0.186	13 - 22 - 34	42		0.119	12 - 20 - 31	30
4	150	0.257	0.039	5 - 7 - 17	19	0.324	0.025	4 - 6 - 15	19	0.399	0.016	3 - 5 - 13	<15
	200		0.069	6 - 11 - 19	26		0.044	5 - 10 - 18	25		0.028	4 - 9 - 16	17
	250		0.108	7 - 15 - 24	33		0.069	6 - 13 - 22	30		0.044	5 - 11 - 20	21
	300		0.156	10 - 20 - 30	39		0.100	9 - 18 - 28	35		0.064	8 - 16 - 25	25
	350		0.211	14 - 25 - 37	45		0.135	12 - 23 - 34	40		0.086	10 - 21 - 31	29
5	200	0.323	0.053	6 - 8 - 18	21	0.410	0.034	5 - 7 - 16	21	0.508	0.022	4 - 6 - 14	<15
	250		0.081	8 - 13 - 22	28		0.052	7 - 11 - 20	26		0.033	6 - 10 - 18	18
	300		0.117	10 - 16 - 25	33		0.075	9 - 14 - 23	30		0.048	8 - 12 - 21	21
	350		0.159	13 - 21 - 32	38		0.102	11 - 19 - 29	34		0.065	10 - 17 - 26	24
	400		0.209	15 - 25 - 36	44		0.134	13 - 23 - 33	39		0.086	11 - 21 - 30	28
6	250	0.389	0.063	6 - 10 - 18	23	0.494	0.040	5 - 8 - 16	22	0.611	0.026	4 - 7 - 14	<15
	300		0.089	8 - 12 - 23	30		0.057	7 - 11 - 20	28		0.036	6 - 10 - 18	19
	350		0.122	10 - 17 - 27	34		0.078	9 - 15 - 24	31		0.050	8 - 13 - 21	22
	400		0.159	11 - 21 - 33	39		0.102	10 - 19 - 30	35		0.065	9 - 17 - 27	25
	450		0.203	13 - 25 - 37	43		0.130	12 - 23 - 34	38		0.083	11 - 21 - 31	27

SYMBOLS

CFM Per Meter : Air volume in cubic feet per 1 meter length
 Ak : Effective face area in square feet per meter
 Ps : Static pressure in inch water gauge
 Th : Throw in feet
 NC : Noise Criteria

CONDITIONS

* Supply
 * Horizontal Discharge flow pattern
 * Noise Criteria Values are based on (10 dB) room attenuation.
 * Damper is fully open
 * The tested specimens were of 1 meter length

NOTES

* The large throw values are based on the minimum terminal velocity of 50 fpm.
 * The middle throw values are based on the middle terminal velocity of 100 fpm
 * The small throw values are based on the maximum terminal velocity of 150 fpm.





SLD / RLD - RETURN

SLOTS	CFM PER METER	SLOT WIDTH					
		3/5"		4/5"		1"	
		Neg. P _s (IWG)	NC	Neg. P _s (IWG)	NC	Neg. P _s (IWG)	NC
1	75	0.133	19	0.085	19	0.054	<15
	100	0.234	26	0.150	25	0.096	17
	125	0.359	35	0.230	32	0.147	22
	150	0.544	44	0.348	39	0.223	28
	175	0.734	50	0.470	44	0.301	32
2	150	0.156	19	0.100	19	0.064	<15
	175	0.228	26	0.146	25	0.093	17
	200	0.283	31	0.181	29	0.116	20
	250	0.438	40	0.280	36	0.179	26
	300	0.625	48	0.400	42	0.256	30
3	200	0.156	20	0.100	20	0.064	<15
	250	0.244	28	0.156	26	0.100	18
	300	0.352	34	0.225	31	0.144	22
	350	0.478	41	0.306	37	0.196	26
	450	0.794	49	0.508	43	0.325	31
4	300	0.250	23	0.160	22	0.102	<15
	350	0.339	30	0.217	28	0.139	19
	400	0.438	35	0.280	32	0.179	22
	500	0.661	43	0.423	38	0.271	27
	600	0.981	50	0.628	44	0.402	32
5	300	0.175	21	0.112	21	0.072	<15
	400	0.309	30	0.198	28	0.127	19
	500	0.484	38	0.310	34	0.198	24
	600	0.695	43	0.445	38	0.285	27
	700	0.945	50	0.605	44	0.387	32
6	400	0.244	24	0.156	23	0.100	15
	500	0.380	31	0.243	29	0.156	20
	600	0.547	39	0.350	35	0.224	25
	700	0.742	44	0.475	39	0.304	28
	800	0.972	50	0.622	44	0.398	32

SYMBOLS

CFM Per Meter : Air volume in cubic feet per 1 meter length
 P_s : Negative static pressure in inch water gauge
 NC : Noise Criteria

CONDITIONS

* Return
 * Noise Criteria Values are based on (10 dB) room attenuation.
 * Damper is fully open
 * The tested specimens were of 1 meter length





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