

DOUBLE DEFLECTION GRILLES AND REGISTERS

0° AND 45° DEFLECTION

1.3 Air flow data

L/s	Listed Size in mm	350 x 350 400 x 300 500 x 250 600 x 200 900 x 150		400 x 400 500 x 300 600 x 250 750 x 200		500 x 350 600 x 300 700 x 250 900 x 200 1200 x 150		450 x 450 500 x 400 800 x 250 1000 x 200	
		Deflection	0°	45°	0°	45°	0°	45°	0°
225	Face Vel.	734.25	879.92	562.99	645.67	484.25	545.27	435.04	478.35
	P _s (Pa)	4.71	10.00	2.75	4.41	1.96	3.04	5.00	2.26
	Throw	24 - 35.8	19 - 29.9	22 - 35.1	18 - 29.9	31.2 - 34.1	17.1 - 29.9	20 - 33.1	16.1 - 28.9
	NC	< 15	16	< 15	< 15	< 15	< 15	< 15	< 15
275	Face Vel.	879.92	1055.12	675.2	775.59	580.71	653.54	521.65	574.8
	P _s (Pa)	6.96	14.22	4.02	6.18	3.04	4.22	2.26	3.04
	Throw	26.9 - 39	21 - 33.1	24.9 - 38.1	21 - 33.1	24 - 37.1	20 - 33.1	23 - 35.1	20 - 32.2
	NC	15	18	< 15	16	< 15	15	< 15	< 15
325	Face Vel.	1027.56	1230.31	787.4	903.54	677.16	763.78	608.27	669.29
	P _s (Pa)	9.41	19.42	5.49	8.43	4.02	5.49	3.04	4.22
	Throw	28.9 - 42	24 - 35.8	27.9 - 41	23 - 36.1	27.9 - 40	23 - 35.8	26.9 - 39	22 - 35.1
	NC	22	26	17	22	16	19	<15	17
375	Face Vel.	1175.19	1405.51	899.6	1033.46	773.62	872.05	694.88	765.75
	P _s (Pa)	12.45	25.40	6.96	11.18	5.20	7.26	3.73	5.49
	Throw	32.2 - 44	26.9 - 39	31.2 - 43	25.9 - 34.8	31.2 - 43	25.9 - 38.1	29.9 - 41	24.9 - 37.1
	NC	30	32	24	27	19	25	19	23
425	Face Vel.	1320.86	1580.71	1011.81	1161.42	870.08	980.31	783.46	862.2
	P _s (Pa)	15.69	31.87	8.92	14.22	6.67	9.22	4.71	6.96
	Throw	33.1 - 47.9	27.9 - 41	33.1 - 46.9	27.9 - 40	33.1 - 45.9	27.9 - 40	32.2 - 44.9	26.9 - 40
	NC	31	35	28	32	24	30	24	28
475	Face Vel.	1464.56	1755.9	1120.08	1289.37	968.5	1092.52	875.98	956.69
	P _s (Pa)	19.42	39.32	10.89	17.46	8.24	11.47	5.98	8.43
	Throw	35.1 - 49.2	29.9 - 42.7	34.1 - 49.2	29.9 - 43	34.1 - 47.9	29.9 - 43	33.1 - 46.9	30.2 - 43
	NC	35	38	32	34	29	32	27	31
525	Face Vel.	1610.23	1931.1	1230.31	1419.29	1064.96	1202.75	962.6	1053.15
	P _s (Pa)	23.44	47.86	13.24	21.18	10.00	13.93	7.26	10.49
	Throw	35.8 - 52.5	32.2 - 45.9	35.1 - 49.2	32.2 - 45.9	35.1 - 49.2	32.2 - 45.9	34.1 - 48.9	32.2 - 45.9
	NC	40	43	35	39	31	34	32	34
575	Face Vel.			1344.49	1549.21	1163.38	1312.99	1053.15	1149.6
	P _s (Pa)			15.69	24.91	11.96	16.48	9.81	12.16
	Throw			37.1 - 52.5	34.1 - 49.2	37.1 - 52.2	34.1 - 48.9	36.1 - 49.9	32.8 - 48.6
	NC			38	43	35	38	35	37
650	Face Vel.			1566.93	1807.08	1354.33	1529.52	1226.38	1340.55
	P _s (Pa)			21.38	34.42	16.18	22.36	11.67	16.97
	Throw			40 - 55.8	36.1 - 50.9	40 - 55.1	35.8 - 49.9	38.1 - 53.1	34.1 - 49.2
	NC			42	48	41	43	38	42

- Face Velocity is measured in fpm
- P_s : Static pressure drop is in Pascal.
- Throw (ft) is measured for terminal velocities of 1.5 & 0.8 ft/s.
- Noise Criteria (NC) based on room attenuation of 10 dB.