

- AL-1/AL-2 - 0° DEFLECTION, 1/4" BARS ON 1/2" CENTERS
- TL-1N/TL-2N - 0° DEFLECTION, 1/8" BARS ON 1/4" CENTERS
- TL-15N/TL-25N - 15° DEFLECTION, 1/8" BARS ON 1/4" CENTERS

NOMINAL DUCT HEIGHT	Core Velocity , fpm		300		400		500		600		700		800		900		1000		1100									
	Ps, inches w.g.		0.02		0.03		0.05		0.08		0.11		0.14		0.18		0.22		0.26									
1.5	CFM / FOOT		8		10		13		16		18		21		23		26		29									
	NC		<20		<20		<20		<20		21		24		26		28		30									
	Throw	SIDE WALL	3	5	9	4	6	11	5	8	13	6	9	14	7	11	15	8	11	16	9	12	17	10	13	18	11	13
SILL / FLOOR		2	4	7	3	5	9	4	6	10	5	7	11	6	9	12	6	9	13	7	9	13	8	10	14	9	10	15
2	CFM / FOOT		20		27		34		41		47		54		61		68		74									
	NC		<20		<20		<20		22		25		28		30		32		34									
	Throw	SIDE WALL	5	7	15	7	10	18	8	12	21	10	15	23	11	17	24	13	18	26	15	20	28	16	21	29	18	22
SILL / FLOOR		4	6	12	6	8	14	6	9	17	8	12	18	9	13	19	10	14	21	12	16	22	13	17	23	14	17	24
2.5	CFM / FOOT		33		44		55		66		77		87		98		109		120									
	NC		<20		<20		20		24		27		30		32		34		36									
	Throw	SIDE WALL	6	9	19	8	13	23	10	16	26	13	19	29	15	22	31	17	23	33	19	25	35	21	26	37	22	27
SILL / FLOOR		5	7	15	6	10	18	8	13	21	10	15	23	12	17	24	13	18	26	15	20	28	17	21	29	17	21	31
3	CFM / FOOT		45		60		76		91		106		121		136		151		166									
	NC		<20		<20		22		26		29		31		34		36		38									
	Throw	SIDE WALL	7	11	22	10	15	27	12	18	31	15	22	34	17	26	36	20	27	39	22	29	41	25	31	43	26	32
SILL / FLOOR		6	9	17	8	12	21	9	14	24	12	17	27	13	21	28	16	21	31	17	23	32	20	24	34	21	25	36
3.5	CFM / FOOT		58		77		96		116		135		154		173		193		212									
	NC		<20		<20		23		27		30		32		35		37		39									
	Throw	SIDE WALL	8	12	25	11	17	31	14	21	35	17	25	38	19	29	41	22	31	44	25	33	47	28	35	49	30	36
SILL / FLOOR		6	9	20	9	13	24	11	17	28	13	20	30	15	23	32	17	24	35	20	26	37	22	28	39	24	28	40
4	CFM / FOOT		70		94		117		141		164		187		211		234		258									
	NC		<20		<20		24		27		31		33		36		38		40									
	Throw	SIDE WALL	9	14	27	12	18	34	15	23	38	18	27	42	21	32	45	24	34	48	27	36	51	31	38	54	33	40
SILL / FLOOR		7	11	21	9	14	27	12	18	30	14	21	33	17	25	36	19	27	38	21	28	40	24	30	43	26	32	45
5	CFM / FOOT		95		127		159		191		222		254		286		318		349									
	NC		<20		21		25		29		32		35		37		39		41									
	Throw	SIDE WALL	11	16	32	14	21	40	18	27	45	21	32	49	25	37	53	28	40	56	32	42	60	36	45	63	38	47
SILL / FLOOR		9	13	25	11	17	32	14	21	36	17	25	39	20	29	42	22	32	44	25	33	47	28	36	50	30	37	52
6	CFM / FOOT		120		160		201		241		281		321		361		401		441									
	NC		<20		22		26		30		33		36		38		40		42									
	Throw	SIDE WALL	12	18	36	16	24	45	20	30	50	24	36	55	28	42	59	32	45	63	36	47	67	40	50	71	43	53
SILL / FLOOR		9	14	28	13	19	36	16	24	40	19	28	43	22	33	47	25	36	50	28	37	53	32	40	56	34	42	58
8	CFM / FOOT		170		227		284		341		397		454		511		568		624									
	NC		<20		23		28		31		34		37		39		42		44									
	Throw	SIDE WALL	14	21	43	19	29	53	24	36	60	29	43	65	33	50	70	38	53	75	43	57	80	48	60	84	51	62
SILL / FLOOR		11	17	34	15	23	42	19	28	47	23	34	51	26	40	55	30	42	59	34	45	63	38	47	66	40	49	70
10	CFM / FOOT		220		294		367		441		514		587		661		734		808									
	NC		<20		24		29		32		36		38		41		43		45									
	Throw	SIDE WALL	16	24	49	22	32	61	27	41	68	32	49	74	38	57	80	43	61	86	49	64	91	54	68	96	58	71
SILL / FLOOR		13	19	39	17	25	48	21	32	54	25	39	58	30	45	63	34	48	68	39	51	72	43	54	76	46	56	79
12	CFM / FOOT		270		360		451		541		631		721		811		901		991									
	NC		<20		25		30		33		36		39		41		44		46									
	Throw	SIDE WALL	18	27	54	24	36	67	30	45	75	36	54	82	42	63	89	48	67	95	54	71	101	60	75	106	64	79
SILL / FLOOR		14	21	43	19	28	53	24	36	59	28	43	65	33	50	70	38	53	75	43	56	80	47	59	84	51	62	88
18	CFM / FOOT		420		560		701		841		981		1121		1261		1401		1541									
	NC		21		27		32		35		38		41		43		46		47									
	Throw	SIDE WALL	22	34	67	30	45	84	37	56	94	45	67	103	52	78	111	60	84	118	67	89	126	75	94	132	80	98
SILL / FLOOR		17	27	53	24	36	66	29	44	74	36	53	81	41	62	88	47	66	93	53	70	100	59	74	104	63	77	110
24	CFM / FOOT		570		760		951		1141		1331		1521		1711		1901		2091									
	NC		23		28		33		37		40		42		45		47		49									
	Throw	SIDE WALL	26	39	78	35	52	97	43	65	109	52	78	119	61	91	129	70	97	138	78	103	146	87	109	154	93	114
SILL / FLOOR		21	31	62	28	41	77	34	51	86	41	62	94	48	72	102	55	77	109	62	81	115	69	86	122	73	90	128

Test Standard

- ANSI / ASHRAE standard 70
- Isothermal air
- Data based on 4' active length. For other active lengths, use the following adjustment factors:

If grille length is:	2'	4'	6'	8'	10+'
Add to NC value:	-3	0	+2	+3	+4
Multiply Throw Dist by:	.71	0	1.22	1.41	1.58

Throw

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150,100, & 50 fpm, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiple sidewall throw distance in table x .70
- Sill / Floor throw values are the sum of the vertical and horizontal distance the jet travels up an adjacent surface and across the ceiling. This is an attached jet with a surface effect.

- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- Double deflection grilles provide spread control for active lengths up to 10', and throw distances will be reduced as follows: 22-1/2° Deflection: Throw x .70
45° Deflection : Throw x .55

Sound Levels

- NC shown is the noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10⁻¹² watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands.
- When used with opposed blade volume control damper (OBD), add +5 NC to value shown for full open damper, and increase pressure by 1.2

Core Velocity

- Feet per minute

Pressure

- P_s represents static pressure, inches of water

Return Use

- Add +5 NC and multiply P_s x 1.20

• AL-15/AL-25 - 15° DEFLECTION, 1/4" BARS ON 1/2" CENTERS

NOMINAL DUCT HEIGHT	Core Vel.fpm		300		400		500		600		700		800		900		1000		1100									
	Ps		0.02		0.04		0.06		0.08		0.11		0.15		0.18		0.23		0.27									
1.5	CFM / FOOT		8		10		13		16		18		21		23		26		30									
	NC		<20		<20		<20		22		26		29		32		35		38									
	Throw	SIDE WALL	3	5	9	4	6	11	5	8	13	6	9	14	7	11	15	8	11	16	9	12	17	10	13	18	11	13
SILL / FLOOR		2	4	7	3	5	9	4	6	10	5	7	11	6	9	12	6	9	13	7	9	13	8	10	14	9	10	15
2	CFM / FOOT		20		27		34		41		47		54		61		68		70									
	NC		<20		<20		21		26		30		33		37		39		42									
	Throw	SIDE WALL	5	8	15	7	10	18	8	13	21	10	15	23	12	17	24	13	18	26	15	20	28	17	21	29	18	22
SILL / FLOOR		4	6	12	6	8	14	6	10	17	8	12	18	9	13	19	10	14	21	12	16	22	13	17	23	14	17	24
2.5	CFM / FOOT		33		44		55		66		77		87		98		109		120									
	NC		<20		<20		23		28		32		36		39		41		44									
	Throw	SIDE WALL	6	10	19	9	13	23	11	16	26	13	19	29	15	22	31	17	23	33	19	25	35	21	26	37	22	27
SILL / FLOOR		5	8	15	7	10	18	9	13	21	10	15	23	12	17	24	13	18	26	15	20	28	17	21	29	17	21	31
3	CFM / FOOT		45		60		76		91		106		121		136		151		170									
	NC		<20		<20		25		29		33		37		40		43		45									
	Throw	SIDE WALL	8	11	23	10	15	27	13	19	31	15	23	34	18	26	36	20	27	39	23	29	41	25	31	43	26	32
SILL / FLOOR		6	9	18	8	12	21	10	15	24	12	18	27	14	21	28	16	21	31	18	23	32	20	24	34	21	25	36
3.5	CFM / FOOT		58		77		96		116		135		154		173		193		210									
	NC		<20		20		26		31		35		38		41		44		46									
	Throw	SIDE WALL	8	13	25	11	17	31	14	21	35	17	25	38	20	29	41	23	31	44	25	33	47	28	35	49	30	36
SILL / FLOOR		6	10	20	9	13	24	11	17	28	13	20	30	16	23	32	18	24	35	20	26	37	22	28	39	24	28	41
4	CFM / FOOT		70		94		117		141		164		187		211		234		260									
	NC		<20		21		27		31		35		39		42		45		47									
	Throw	SIDE WALL	9	14	28	12	19	34	16	23	38	19	28	42	22	32	45	25	34	48	28	36	51	31	38	54	33	40
SILL / FLOOR		7	11	22	9	15	27	13	18	30	15	22	33	17	25	36	20	27	38	22	28	40	24	30	43	26	32	45
5	CFM / FOOT		95		127		159		191		222		254		286		318		350									
	NC		<20		22		28		33		37		40		43		46		48									
	Throw	SIDE WALL	11	16	33	15	22	40	18	27	45	22	33	49	25	37	53	29	40	56	33	42	60	36	45	63	38	47
SILL / FLOOR		9	13	26	12	17	32	14	21	36	17	26	39	20	29	42	23	32	44	26	33	47	28	36	50	30	37	52
6	CFM / FOOT		120		160		201		241		281		321		361		401		440									
	NC		<20		23		29		34		38		41		44		47		49									
	Throw	SIDE WALL	12	18	37	16	24	45	20	31	50	24	37	55	29	42	59	33	45	63	37	47	67	41	50	71	43	52
SILL / FLOOR		9	14	29	13	19	36	16	24	40	19	29	43	23	33	47	26	36	50	29	37	53	32	40	56	34	41	58
8	CFM / FOOT		170		227		284		341		397		454		511		568		620									
	NC		<20		25		30		35		39		43		46		48		51									
	Throw	SIDE WALL	15	22	44	19	29	53	24	36	60	29	44	65	34	50	70	39	53	75	44	57	80	49	60	84	51	63
SILL / FLOOR		12	17	35	15	23	42	19	28	47	23	35	51	27	40	55	31	42	59	35	45	63	39	47	66	40	50	70
10	CFM / FOOT		220		294		367		441		514		587		661		734		810									
	NC		<20		26		32		36		40		44		47		50		52									
	Throw	SIDE WALL	17	25	50	22	33	61	28	41	68	33	50	74	39	57	80	44	61	86	50	64	91	55	68	96	58	71
SILL / FLOOR		13	20	40	17	26	48	22	32	54	26	40	58	31	45	63	35	48	68	40	51	72	43	54	76	46	56	79
12	CFM / FOOT		270		360		451		541		631		721		811		901		990									
	NC		<20		27		32		37		41		45		48		50		53									
	Throw	SIDE WALL	18	28	55	24	37	67	31	46	75	37	55	82	43	63	89	49	67	95	55	71	101	61	75	106	64	79
SILL / FLOOR		14	22	43	19	29	53	24	36	59	29	43	65	34	50	70	39	53	75	43	56	80	48	59	84	51	62	88
18	CFM / FOOT		420		560		701		841		981		1121		1261		1401		1540									
	NC		21		29		34		39		43		47		50		52		55									
	Throw	SIDE WALL	23	34	69	30	46	84	38	57	94	46	69	103	53	78	111	61	84	118	69	89	126	76	94	132	80	98
SILL / FLOOR		18	27	55	24	36	66	30	45	74	36	55	81	42	62	88	48	66	93	55	70	100	60	74	104	63	77	110
24	CFM / FOOT		570		760		951		1141		1331		1521		1711		1901		2090									
	NC		22		30		36		40		44		48		51		54		56									
	Throw	SIDE WALL	27	40	80	36	53	97	44	67	109	53	80	119	62	91	129	71	97	138	80	103	146	89	109	154	93	114
SILL / FLOOR		21	32	63	28	42	77	35	53	86	42	63	94	49	72	102	56	77	109	63	81	115	70	86	122	73	90	128

Test Standard

- ANSI / ASHRAE standard 70
- Isothermal air
- Data based on 4' active length. For other active lengths, use the following adjustment factors:

If grille length is:	2'	4'	6'	8'	10+'
Add to NC value:	-3	0	+2	+3	+4
Multiply Throw Dist by:	.71	0	1.22	1.41	1.58

Throw

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150,100, & 50 fpm, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiple sidewall throw distance in table x .70
- Sill / Floor throw values are the sum of the vertical and horizontal distance the jet travels up an adjacent surface and across the ceiling. This is an attached jet with a surface effect.

- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- Double deflection grilles provide spread control for active lengths up to 10', and throw distances will be reduced as follows: 22-1/2° Deflection: Throw x .70
45° Deflection : Throw x .55

Sound Levels

- NC shown is the noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10⁻¹² watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands.
- When used with opposed blade volume control damper (OBD), add +5 NC to value shown for full open damper, and increase pressure by 1.2

Core Velocity

- Feet per minute

Pressure

- P_s represents static pressure, inches of water

Return Use

- Add +5 NC and multiply P_s x 1.20

- TL-1W/TL-2W - 0° DEFLECTION, 1/8" BARS ON 1/2" CENTERS
- TL-15W/TL-25W - 15° DEFLECTION, 1/8" BARS ON 1/2" CENTERS

NOMINAL DUCT HEIGHT	Core Velocity, fpm		300		400		500		600		700		800		900		1000		1100									
	Ps, inches w.g.		0.01		0.02		0.04		0.05		0.07		0.09		0.12		0.14		0.17									
1.5	CFM / FOOT		8		10		13		16		18		21		23		26		29									
	NC		<20		<20		<20		<20		<20		20		23		25		27									
	Throw	SIDE WALL	3	4	8	4	5	11	5	7	13	5	8	14	6	10	15	7	11	16	8	12	17	9	13	18	10	13
SILL / FLOOR		2	3	6	3	4	9	4	6	10	4	6	11	5	8	12	6	9	13	6	9	13	7	10	14	8	10	15
2	CFM / FOOT		20		27		34		41		47		54		61		68		74									
	NC		<20		<20		<20		<20		22		24		27		29		31									
	Throw	SIDE WALL	4	7	13	6	9	18	7	11	21	9	13	23	10	16	24	12	18	26	13	20	28	15	21	29	16	22
SILL / FLOOR		3	6	10	5	7	14	6	9	17	7	10	18	8	13	19	9	14	21	10	16	22	12	17	23	13	17	24
2.5	CFM / FOOT		33		44		55		66		77		87		98		109		120									
	NC		<20		<20		<20		21		24		26		29		31		33									
	Throw	SIDE WALL	6	8	17	8	11	23	9	14	26	11	17	29	13	20	31	15	23	33	17	25	35	19	26	37	21	27
SILL / FLOOR		5	6	13	6	9	18	7	11	21	9	13	23	10	16	24	12	18	26	13	20	28	15	21	29	17	21	31
3	CFM / FOOT		45		60		76		91		106		121		136		151		166									
	NC		<20		<20		<20		22		25		28		30		32		34									
	Throw	SIDE WALL	7	10	20	9	13	26	11	17	31	13	20	34	15	23	36	18	26	39	20	29	41	22	31	43	24	32
SILL / FLOOR		6	8	16	7	10	21	9	13	24	10	16	27	12	18	28	14	21	31	16	23	32	17	24	34	19	25	36
3.5	CFM / FOOT		58		77		96		116		135		154		173		193		212									
	NC		<20		<20		<20		23		26		29		31		33		35									
	Throw	SIDE WALL	7	11	22	10	15	30	12	19	35	15	22	38	17	26	41	20	30	44	22	33	47	25	35	49	27	36
SILL / FLOOR		6	9	17	8	12	24	9	15	28	12	17	30	13	21	32	16	24	35	17	26	37	20	28	39	21	28	40
4	CFM / FOOT		70		94		117		141		164		187		211		234		258									
	NC		<20		<20		20		24		27		30		32		34		36									
	Throw	SIDE WALL	8	12	25	11	16	33	14	21	38	16	25	42	19	29	45	22	33	48	25	36	51	27	38	54	30	40
SILL / FLOOR		6	9	20	9	13	26	11	17	30	13	20	33	15	23	36	17	26	38	20	28	40	21	30	43	24	32	45
5	CFM / FOOT		95		127		159		191		222		254		286		318		349									
	NC		<20		<20		22		25		28		31		33		36		37									
	Throw	SIDE WALL	10	14	29	13	19	38	16	24	45	19	29	49	22	34	53	26	38	56	29	42	60	32	45	63	35	47
SILL / FLOOR		8	11	23	10	15	30	13	19	36	15	23	39	17	27	42	21	30	44	23	33	47	25	36	50	28	37	52
6	CFM / FOOT		120		160		201		241		281		321		361		401		441									
	NC		<20		<20		23		26		29		32		34		37		38									
	Throw	SIDE WALL	11	16	32	14	22	43	18	27	50	22	32	55	25	38	59	29	43	63	32	47	67	36	50	71	40	53
SILL / FLOOR		9	13	25	11	17	34	14	21	40	17	25	43	20	30	47	23	34	50	25	37	53	28	40	56	32	42	58
8	CFM / FOOT		170		227		284		341		397		454		511		568		624									
	NC		<20		20		24		28		31		34		36		38		40									
	Throw	SIDE WALL	13	19	39	17	26	51	21	32	60	26	39	65	30	45	70	34	51	75	39	57	80	43	60	84	47	62
SILL / FLOOR		10	15	31	13	21	40	17	25	47	21	31	51	24	36	55	27	40	59	31	45	63	34	47	66	37	49	70
10	CFM / FOOT		220		294		367		441		514		587		661		734		808									
	NC		<20		21		25		29		32		35		37		39		41									
	Throw	SIDE WALL	15	22	44	19	29	58	24	37	68	29	44	74	34	51	80	39	58	86	44	64	91	49	68	96	54	71
SILL / FLOOR		12	17	35	15	23	46	19	29	54	23	35	58	27	40	63	31	46	68	35	51	72	39	54	76	43	56	79
12	CFM / FOOT		270		360		451		541		631		721		811		901		991									
	NC		<20		22		26		30		33		36		38		40		42									
	Throw	SIDE WALL	16	24	49	22	32	65	27	40	75	32	49	82	38	57	89	43	65	95	49	71	101	54	75	106	59	79
SILL / FLOOR		13	19	39	17	25	51	21	32	59	25	39	65	30	45	70	34	51	75	39	56	80	43	59	84	47	62	88
18	CFM / FOOT		420		560		701		841		981		1121		1261		1401		1541									
	NC		<20		23		28		32		35		37		40		42		44									
	Throw	SIDE WALL	20	30	61	27	40	81	34	50	94	40	61	103	47	71	111	54	81	118	61	89	126	67	94	132	74	98
SILL / FLOOR		16	24	48	21	32	64	27	40	74	32	48	81	37	56	88	43	64	93	48	70	100	53	74	104	58	77	110
24	CFM / FOOT		570		760		951		1141		1331		1521		1711		1901		2091									
	NC		<20		25		29		33		36		39		41		43		45									
	Throw	SIDE WALL	23	35	70	31	47	94	39	59	109	47	70	119	55	82	129	63	94	138	70	103	146	78	109	154	86	114
SILL / FLOOR		18	28	55	24	37	74	31	47	86	37	55	94	43	65	102	50	74	109	55	81	115	62	86	122	68	90	128

Test Standard

- ANSI / ASHRAE standard 70
- Isothermal air
- Data based on 4' active length. For other active lengths, use the following adjustment factors:

If grille length is:	2'	4'	6'	8'	10+'
Add to NC value:	-3	0	+2	+3	+4
Multiply Throw Dist by:	.71	0	1.22	1.41	1.58

Throw

- The numbers shown are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150,100, & 50 fpm, with the jet attached to the ceiling surface. For exposed duct installation with free, unattached jet, multiple sidewall throw distance in table x .70
- Sill / Floor throw values are the sum of the vertical and horizontal distance the jet travels up an adjacent surface and across the ceiling. This is an attached jet with a surface effect.

- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- Double deflection grilles provide spread control for active lengths up to 10', and throw distances will be reduced as follows: 22-1/2° Deflection: Throw x .70
45° Deflection : Throw x .55

Sound Levels

- NC shown is the noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10⁻¹² watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands.
- When used with opposed blade volume control damper (OBD), add +5 NC to value shown for full open damper, and increase pressure by 1.2

Core Velocity

- Feet per minute

Pressure

- P_s represents static pressure, inches of water

Return Use

- Add +5 NC and multiply P_s x 1.20

• AL-45/AL-245 - 45° DEFLECTION, 1/4" BARS ON 1/2" CENTERS

NOMINAL DUCT HEIGHT	Core Velocity ,fpm		200		250		300		350		400		450		500						
	Ps, inches w.g.		0.02		0.03		0.04		0.05		0.07		0.09		0.11						
2	CFM / FOOT	14		17		20		24		27		30		34							
	NC	<20		22		26		30		34		37		40							
	Throw	5	7	14	6	9	18	7	11	20	8	12	21	9	14	23	11	16	24	12	18
2.5	CFM / FOOT	22		27		33		38		44		49		55							
	NC	<20		24		28		32		36		39		42							
	Throw	6	9	18	7	11	22	9	13	25	10	16	27	12	18	29	13	20	30	15	22
3	CFM / FOOT	30		38		45		53		60		68		76							
	NC	<20		25		30		34		37		40		43							
	Throw	7	11	21	9	13	26	11	16	29	12	18	31	14	21	34	16	24	36	18	26
3.5	CFM / FOOT	39		48		58		67		77		87		96							
	NC	20		26		31		35		38		41		44							
	Throw	8	12	24	10	15	30	12	18	33	14	21	36	16	24	38	18	27	40	20	30
4	CFM / FOOT	47		59		70		82		94		105		117							
	NC	21		27		32		36		39		42		45							
	Throw	9	13	26	11	16	33	13	20	36	15	23	39	17	26	42	20	30	44	22	33
5	CFM / FOOT	64		79		95		111		127		143		159							
	NC	23		28		33		37		41		44		46							
	Throw	10	15	31	13	19	38	15	23	42	18	27	46	20	31	49	23	34	52	25	38
6	CFM / FOOT	80		100		120		140		160		180		201							
	NC	24		29		34		38		42		45		47							
	Throw	11	17	34	14	21	43	17	26	47	20	30	51	23	34	55	26	39	58	29	43
8	CFM / FOOT	114		142		170		199		227		255		284							
	NC	25		31		36		40		43		46		49							
	Throw	14	20	41	17	26	51	20	31	57	24	36	61	27	41	65	31	46	69	34	51
10	CFM / FOOT	147		184		220		257		294		330		367							
	NC	26		32		37		41		44		47		50							
	Throw	15	23	46	19	29	58	23	35	64	27	41	69	31	46	74	35	52	79	39	58
12	CFM / FOOT	180		225		270		315		360		405		451							
	NC	27		33		38		42		45		48		51							
	Throw	17	26	51	21	32	64	26	39	71	30	45	77	34	51	82	39	58	87	43	64
18	CFM / FOOT	280		350		420		490		560		630		701							
	NC	29		35		39		44		47		50		53							
	Throw	21	32	64	27	40	80	32	48	89	37	56	96	43	64	103	48	72	109	53	80
24	CFM / FOOT	380		475		570		665		760		855		951							
	NC	30		36		41		45		48		51		54							
	Throw	25	37	75	31	47	93	37	56	103	44	65	112	50	75	119	56	84	127	62	93

Test Standard

- ANSI / ASHRAE standard 70
- Isothermal air
- Data above based on 6' active length, attached jet. For other active lengths, use the following adjustment factors:

If grille length is:	2'	4'	6'	8'	10+'
Add to NC value:	-5	-3	0	+1	+2
Multiply Throw Dist by:	.4	.5	0	1.15	1.29

(up to 3' lengths, throw factors are for a free, unattached jet)

Throw

- The numbers shown in table are throw distances, in feet, measured along the jet trajectory axis relating to terminal velocities of 150,100, & 50 fpm, with the jet attached to a surface for a 6' active length. For installation with a free, unattached jet 6'+, multiple throw value in table by x .70
- With short lengths to 3' long, the supply discharge direction will be approximately 45° from the mounting surface. For 6+ foot lengths, the jet will attach and be parallel to the mounting surface (see figure 1). For lengths between 3' and 6', predicting jet attachment is difficult due to varying conditions.
- Terminal velocity is the air speed, in feet per minute, measured in the supply air stream.
- Double deflection grilles provide spread control for active lengths up to 10', and throw distances will be reduced as follows: 22-1/2° Deflection: Throw x .70
45° Deflection : Throw x .55

Sound Levels

- NC shown is the noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10⁻¹² watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands.
- When used with opposed blade volume control damper (OBD), add +4 NC to value shown for full open damper, and increase pressure by 1.2

Core Velocity

- Feet per minute

Pressure

- P_s represents static pressure, inches of water

Return Use

- Add +5 NC and multiply P_s x 1.20

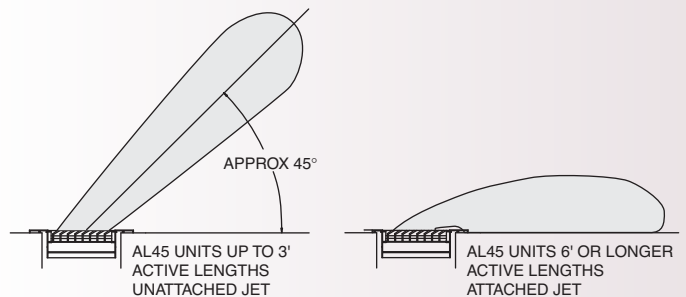


Figure 1