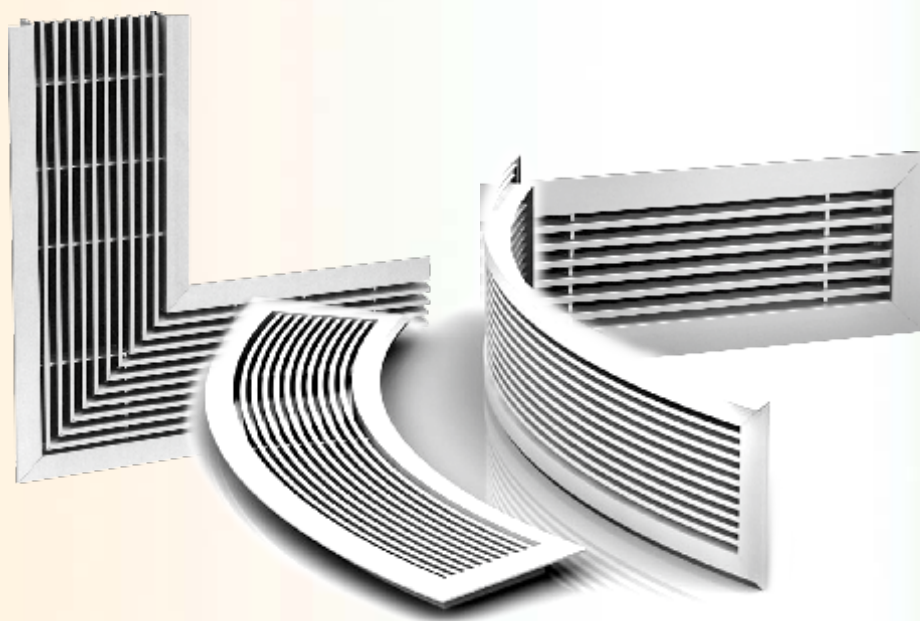




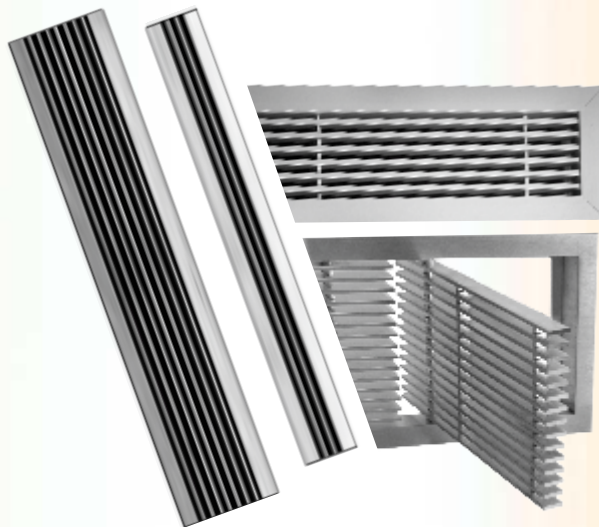
Linear Bar



Linear Bar > Description

Linear Bar

Aluminum Fixed Bars



Models:

1/4" Spacing:

CT - 15 ■ 1/8" Bars
■ 0° Deflection

CT - 16 ■ 1/8" Bars
■ 15° Deflection

1/2" Spacing:

CMT - 15 ■ 1/8" Bars
■ 0° Deflection

CMT - 16 ■ 1/8" Bars
■ 15° Deflection

7/10" Spacing:

CMTE - 15 ■ 1/8" Bars
■ 0° Deflection

CMTE - 16 ■ 1/8" Bars
■ 15° Deflection

These Products Include:

■ Standard Finish:
26# White

■ Optional Finishes:
01# Aluminum
34# Clear Anodized

➤ When both appearance and performance are of prime importance in an air distribution system, MASTER GRILLE linear bar diffusers are a logical choice.

➤ Designed for both heating and cooling applications, supply as well as return.

➤ Available in eight different core styles plus a wide selection of frames and borders.

➤ Can be selected for ceiling, side wall, or sill installations. Heavy duty models (Frames 6, 5, and 15) are designed especially for typical floor installations.

➤ Accessories such as directional blades, dampers, blank-offs, access doors, and mitered corners make these diffusers even more versatile.

➤ Ideal for continuous length applications. Multiple sections are shipped with required alignment strips or pins for field installation.

➤ Maximum one piece section is 6 ft. Lengths greater than 6 ft. are furnished in multiple sections.

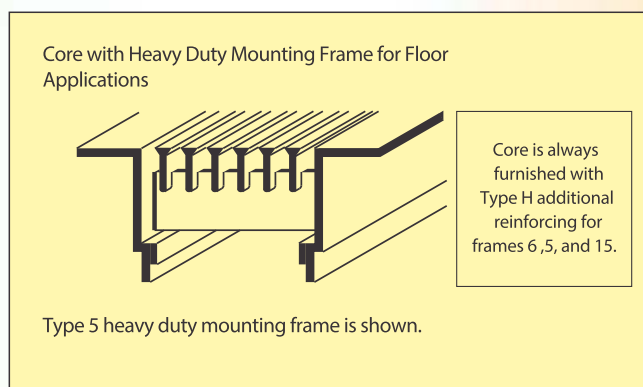
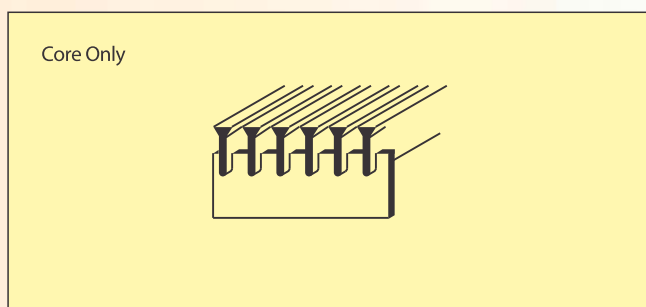
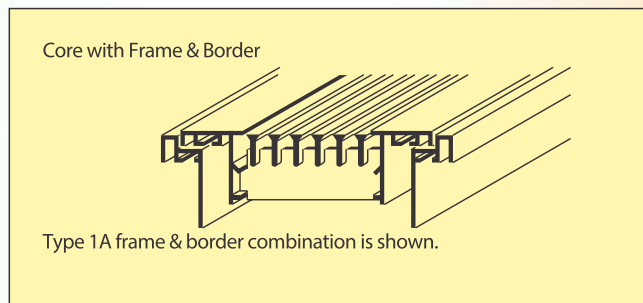
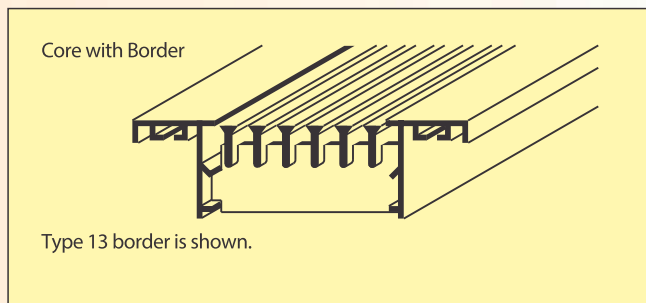
➤ Sections can be joined together end-to-end for continuous appearance, using standard alignment strips or alignment wires.

➤ All deflection bars are fixed and parallel to the long dimension.

➤ Fixed bars and support bars are extruded aluminum.

➤ Optional curving to a 6 ft. minimum radius on most models, available for architectural enhancement.

Linear Bar > Border / Frame / Core Combinations



Available Cores

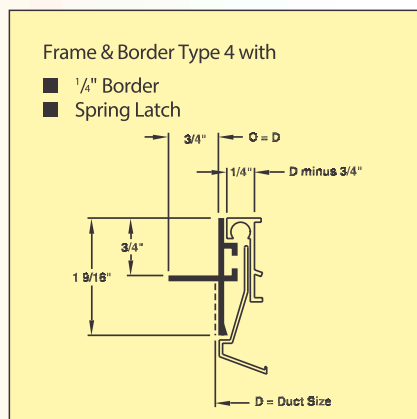
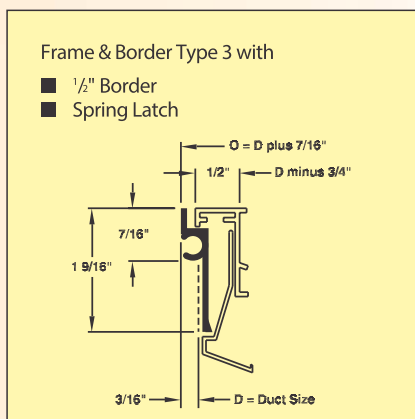
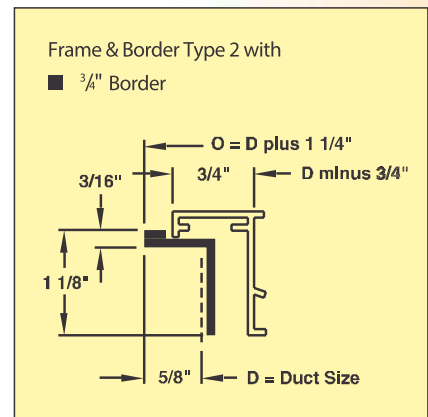
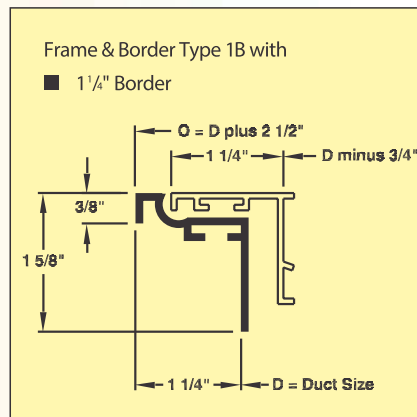
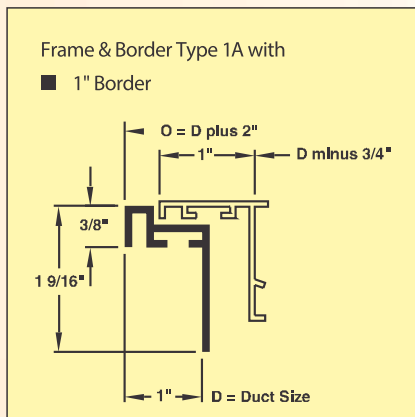
$\frac{1}{4}$ " Spacing
$\frac{1}{5}$ " Bars
Model CT - 15 ■ °0Deflection
Model CT - 16 ■ °15Deflection

$\frac{1}{2}$ " Spacing
$\frac{1}{5}$ " Bars
Model CMT - 15 ■ °0Deflection *See Note Below
Model CMT - 16 ■ °15Deflection *See Note Below
$\frac{1}{5}$ " Bars
Model CMTE -15 ■ °0Deflection *See Note Below
Model CMTE -16 ■ °15Deflection *See Note Below

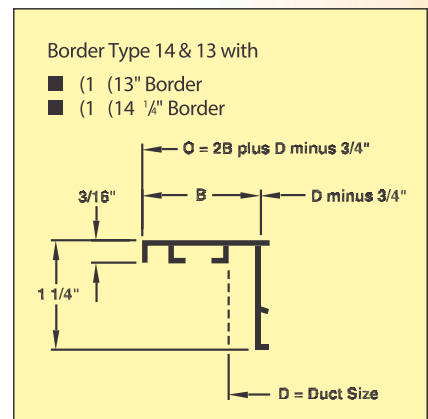
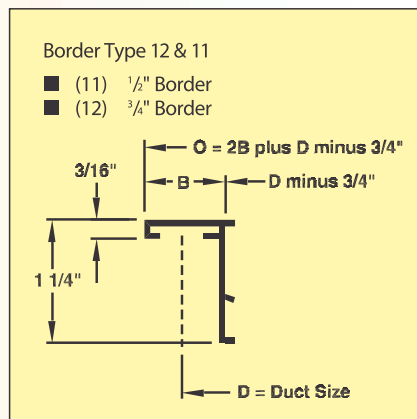
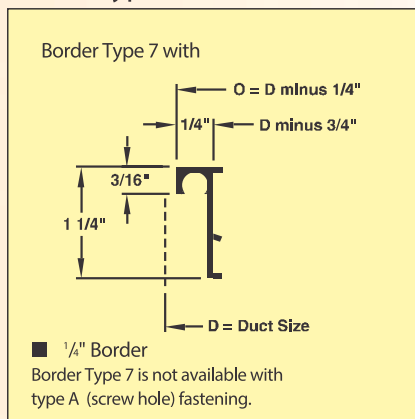
CT-B	CMT-B	CMTE-B

*Note: Not recommended for floor applications with heavy loads or high traffic. See page F38 for maximum floor loading.
All dimensions are in inches.

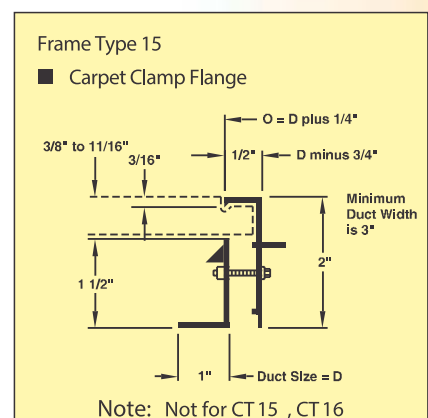
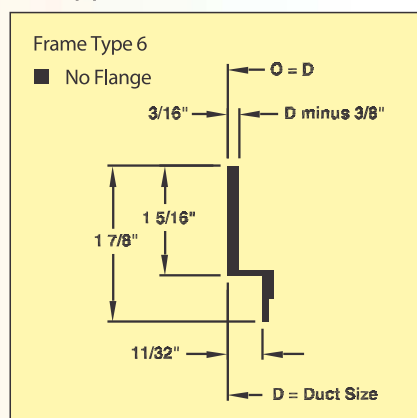
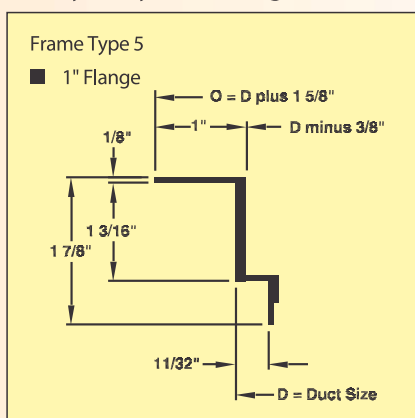
Linear Bar > Border / Frame / Dimensions



Border Types ■ Dimensions



Heavy Duty Mounting Frames for Floor Applications

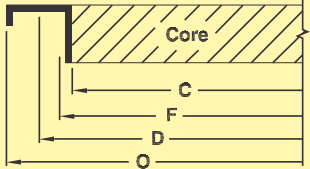


All dimensions are in inches.

Linear Bar > Dimensions

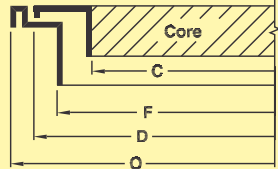
Overall Lengths and Widths of Various Frame & Border Types

Border Types
(Type 11 Shown)



Type	F Border Length	O Overall Length	C Core Opening Length
5	D	D plus $1\frac{3}{8}$	D - $\frac{3}{8}$
6	D	D	D - $\frac{3}{8}$
7	D minus $\frac{5}{8}$	D minus $\frac{1}{4}$	D minus $\frac{3}{4}$
11	D minus $\frac{5}{8}$	D plus $\frac{1}{4}$	D minus $\frac{3}{4}$
12	D minus $\frac{5}{8}$	D plus $\frac{3}{4}$	D minus $\frac{3}{4}$
13	D minus $\frac{5}{8}$	D plus $1\frac{1}{4}$	D minus $\frac{3}{4}$
14	D minus $\frac{5}{8}$	D plus $1\frac{3}{4}$	D minus $\frac{3}{4}$

Frame & Border Type
(Type 1A & 1B Shown)



Type	F Frame Length	O Overall Length	C Core Opening Length
1A	D	D plus 2	D minus $\frac{3}{4}$
1B	D	D plus $2\frac{1}{2}$	D minus $\frac{3}{4}$
2	D	D plus $1\frac{1}{4}$	D minus $\frac{3}{4}$
3	D	D plus $\frac{7}{16}$	D minus $\frac{3}{4}$
4	D	D	D minus $\frac{3}{4}$
15	D	D plus $\frac{1}{4}$	D minus $\frac{3}{4}$

Dimensions are for length or width.

Standard Core Width Information

Number of Bars per Width	Border 1A, 1B, 2, 3, 4, 7, 11, 12, 13, 14			Border 5, 6, 15		
	CT - 15 CT - 16 $\frac{1}{4}$ " Spacing	CMT - 15 CMT - 16 $\frac{1}{2}$ " Spacing	CMTE - 15 CMTE - 16 $\frac{7}{16}$ " Spacing	CT - 15 CT - 16 $\frac{1}{4}$ " Spacing	CMT - 15 CMT - 16 $\frac{1}{2}$ " Spacing	CMTE - 15 CMTE - 16 $\frac{7}{16}$ " Spacing
2"	3	2	2	6	3	3
2 1/2"	5	3	3	8	4	4
3"	7	4	4	10	5	5
3 1/2"	9	5	5	12	6	7
4"	11	6	7	14	7	8
5"	15	8	9	18	9	10
6"	19	10	11	22	11	12

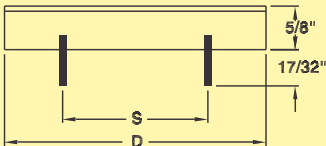
Maximum Floor Loading

(Frames 6, 5, and 15 with standard support bars on 6" centers)

Model	Max. Vertical Distributed Load (lbs./in. ²)	Max. Vertical Live Load (lbs./ft. ²)	Max. Horizontal Load (lbs.)
CT - 15 / CT - 16	300	300	50-
CMT - 15 / CMT - 16	200	200	50-
CMTE - 15 / CMTE - 16	250	250	50-
CT-B	250	250	50-

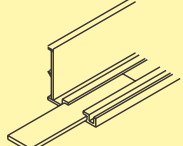
Note: If placing furniture on cores, furniture legs should be a minimum of core spacing plus two bars wide to avoid placing a horizontal load on cores. Maximum duct width available is 12".

Core Only Option



S = 9" maximum support bar spacing.
D = 72" maximum for one piece.
Core Only is an option available for field framing. Standard widths are as shown. See page F36 for core details. Core will ship $\frac{3}{4}$ " smaller than the duct width.

Alignment Strips

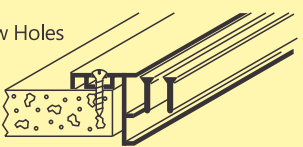


Used with border width $\frac{1}{2}$ " or wider. Alignment pins used with $\frac{1}{4}$ " borders.

Available Fastenings

Type A

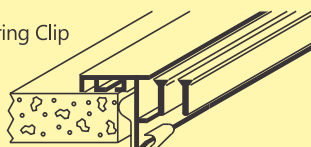
■ Screw Holes



For ceiling, side wall, sill, or floor.
Used with Frame & Border Types 1B, 14, 13, 12, 11, 5.

Type B

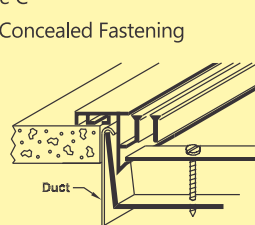
■ Spring Clip



For sill installations.
Used with Frame & Border Types 14, 13, 12, 11. Must use AG - 95 Damper instead of AG - 65

Type C

■ Concealed Fastening

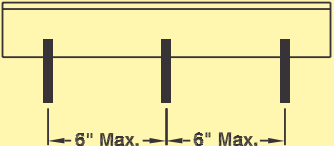


For ceiling, side wall, or sill.
Used with Frame & Border Types 1A, 1B, 14, 13, 12, 11, 7, 4, 3, 2.

Additional Reinforcing (Optional) (Except frame types 6, 5, and 15)*

Type H

■ Optional Heavy Duty Core*



Optional Heavy Duty Core has support bars on 6" maximum centers. (Standard core has 9" maximum centers.) See maximum floor loading shown above.

*Frame types 6, 5, and 15 have support bars on 6" centers as standard.

All dimensions are in inches.



Linear Bar > Performance Data

CT-15		0° Deflection				1/4" Spacing				
Size/Area	Total Pressure	.011	.024	.044	.069	.099	.133	.175	.222	.275
1 1/2"	Flow CFM/Ft.	12	19	25	31	37	43	50	58	62
	NC	-	-	13	19	24	28	32	35	38
	Theow. Ft.	Sill or Floor	1 - 1 - 1	2 - 2 - 2	4 - 4 - 4	6 - 6 - 6	8 - 8 - 9	9 - 10 - 11	10 - 11 - 13	12 - 13 - 15
2"	Flow CFM/Ft.	19	28	37	47	56	66	75	84	94
	NC	-	-	12	18	23	28	31	35	38
	Theow. Ft.	Sill or Floor	1 - 1 - 1	4 - 4 - 4	6 - 6 - 6	9 - 9 - 9	11 - 11 - 12	12 - 13 - 15	14 - 15 - 17	15 - 17 - 19
2 1/2"	Flow CFM/Ft.	26	39	52	65	78	91	104	117	130
	NC	-	-	13	19	24	29	33	36	39
	Theow. Ft.	Sill or Floor	1 - 1 - 1	5 - 5 - 5	8 - 8 - 8	10 - 10 - 11	13 - 14 - 15	15 - 16 - 17	16 - 18 - 20	20 - 20 - 21
3"	Flow CFM/Ft.	33	50	66	83	100	116	133	149	166
	NC	-	-	14	20	25	30	34	37	40
	Theow. Ft.	Sill or Floor	2 - 2 - 2	6 - 6 - 6	9 - 9 - 10	12 - 12 - 13	15 - 16 - 17	18 - 19 - 20	20 - 21 - 22	23 - 23 - 23
3 1/2"	Flow CFM/Ft.	41	61	82	102	122	143	163	183	204
	NC	-	-	15	21	26	31	35	38	41
	Theow. Ft.	Sill or Floor	2 - 2 - 2	7 - 7 - 7	10 - 10 - 11	15 - 15 - 15	17 - 18 - 19	20 - 21 - 22	22 - 23 - 24	25 - 25 - 26
4"	Flow CFM/Ft.	49	73	96	122	148	171	195	220	244
	NC	-	-	16	22	28	32	36	39	42
	Theow. Ft.	Sill or Floor	3 - 3 - 3	8 - 8 - 8	12 - 12 - 13	15 - 15 - 16	19 - 19 - 20	21 - 22 - 23	24 - 24 - 25	26 - 26 - 27
5"	Flow CFM/Ft.	63	94	125	157	188	220	251	282	314
	NC	-	-	16	22	27	32	36	39	42
	Theow. Ft.	Sill or Floor	4 - 4 - 4	9 - 9 - 9	14 - 14 - 14	17 - 17 - 17	21 - 21 - 22	24 - 24 - 24	27 - 27 - 27	29 - 29 - 29
6"	Flow CFM/Ft.	78	116	155	194	233	272	310	349	388
	NC	-	-	18	24	29	34	37	41	44
	Theow. Ft.	Sill or Floor	5 - 5 - 5	10 - 10 - 10	15 - 15 - 15	18 - 18 - 18	22 - 22 - 23	25 - 25 - 25	28 - 28 - 29	31 - 31 - 31

CT-16		15° Deflection				1/4" Spacing				
Size/Area	Total Pressure	.0125	.027	.050	.079	.111	.151	.199	.252	.310
1 1/2"	Flow CFM/Ft.	14	20	27	34	41	48	54	61	68
	NC	-	14	22	29	34	38	42	45	48
	Theow. Ft.	Sill or Floor	1 - 1 - 1	3 - 3 - 3	4 - 4 - 4	7 - 7 - 7	9 - 9 - 10	10 - 11 - 12	12 - 13 - 15	13 - 14 - 16
2"	Flow CFM/Ft.	20	29	39	49	59	69	78	88	98
	NC	-	12	20	26	31	36	40	43	46
	Theow. Ft.	Sill or Floor	1 - 1 - 1	4 - 4 - 4	6 - 6 - 6	9 - 9 - 9	11 - 11 - 12	12 - 13 - 15	14 - 15 - 18	16 - 18 - 20
2 1/2"	Flow CFM/Ft.	26	39	52	65	78	91	104	117	130
	NC	-	12	20	26	31	36	40	43	46
	Theow. Ft.	Sill or Floor	1 - 1 - 1	5 - 5 - 5	8 - 8 - 8	10 - 10 - 11	13 - 14 - 15	14 - 15 - 17	17 - 18 - 20	19 - 20 - 21
3"	Flow CFM/Ft.	33	49	66	82	98	115	131	148	164
	NC	-	12	20	26	31	36	40	43	46
	Theow. Ft.	Sill or Floor	2 - 2 - 2	6 - 6 - 6	9 - 9 - 9	12 - 12 - 13	15 - 15 - 16	17 - 18 - 19	20 - 21 - 22	21 - 22 - 23
3 1/2"	Flow CFM/Ft.	40	59	79	99	119	138	158	178	198
	NC	-	12	20	27	32	38	40	43	46
	Theow. Ft.	Sill or Floor	2 - 2 - 2	8 - 8 - 8	11 - 11 - 11	13 - 13 - 14	16 - 17 - 18	19 - 20 - 21	22 - 22 - 23	23 - 24 - 25
4"	Flow CFM/Ft.	47	70	94	117	140	164	187	220	234
	NC	-	13	21	27	33	37	41	44	47
	Theow. Ft.	Sill or Floor	3 - 3 - 3	9 - 9 - 9	12 - 12 - 12	15 - 15 - 15	18 - 19 - 20	21 - 21 - 22	23 - 24 - 25	25 - 25 - 26
5"	Flow CFM/Ft.	61	91	121	152	182	212	243	274	304
	NC	-	14	22	28	33	38	42	45	48
	Theow. Ft.	Sill or Floor	3 - 3 - 3	9 - 9 - 9	13 - 13 - 13	16 - 16 - 17	20 - 20 - 21	23 - 23 - 24	25 - 25 - 26	28 - 28 - 28
6"	Flow CFM/Ft.	74	111	149	186	223	260	288	335	372
	NC	-	14	22	29	34	39	42	45	49
	Theow. Ft.	Sill or Floor	4 - 4 - 4	10 - 10 - 10	14 - 14 - 14	18 - 18 - 18	22 - 22 - 22	25 - 25 - 25	28 - 28 - 28	30 - 30 - 30



Linear Bar > Performance Data

CMT-15 0° Deflection

1/2" Spacing

Size/Area	Total Pressure	.009	.020	.036	.057	.080	.109	.143	.182	.225
1 1/2"	Flow CFM/Ft.	14	21	28	35	42	49	56	63	70
	NC	-	-	18	22	27	31	35	38	41
	Theow. Ft.	1-1-1	2-2-2	4-4-4	7-7-7	8-9-10	10-11-12	11-12-14	12-14-17	13-15-18
	Side Wall	2-4-6	4-7-10	6-7-13	7-12-17	8-13-18	10-16-22	11-17-24	12-19-25	13-21-29
2"	Flow CFM/Ft.	22	33	44	55	66	77	88	99	110
	NC	-	-	12	18	23	27	31	34	37
	Theow. Ft.	1-1-1	4-4-4	7-7-7	9-9-10	11-11-12	13-14-18	14-16-18	15-17-20	17-19-21
	Side Wall	3-5-7	5-8-12	7-11-16	9-14-20	11-17-23	13-19-26	14-21-28	15-22-30	17-25-33
2 1/2"	Flow CFM/Ft.	30	44	59	74	89	104	118	133	148
	NC	-	-	11	17	22	26	30	33	36
	Theow. Ft.	1-1-1	5-5-5	8-8-9	11-11-13	13-14-15	15-16-17	18-19-20	20-21-23	23-24-25
	Side Wall	4-6-8	6-9-13	9-13-17	11-16-21	13-18-24	15-21-28	17-24-31	20-27-35	23-31-39
3"	Flow CFM/Ft.	38	58	77	96	115	134	154	173	192
	NC	-	-	11	17	22	26	30	33	36
	Theow. Ft.	2-2-2	7-7-7	10-10-11	12-13-14	15-16-17	18-19-20	20-21-23	23-24-25	25-25-26
	Side Wall	5-7-10	7-10-14	10-14-19	12-17-23	15-20-26	18-24-30	20-27-34	23-30-38	25-33-41
3 1/2"	Flow CFM/Ft.	46	89	93	116	139	162	186	209	232
	NC	-	-	11	17	22	26	30	33	36
	Theow. Ft.	3-3-3	8-8-8	12-12-12	15-15-16	18-19-20	20-21-23	23-24-25	25-26-27	29-29-29
	Side Wall	5-7-10	9-12-16	12-16-20	15-20-25	18-23-28	20-26-32	23-29-36	25-32-40	29-36-44
4"	Flow CFM/Ft.	56	83	111	139	167	195	222	250	278
	NC	-	-	12	18	23	27	31	34	37
	Theow. Ft.	3-3-3	9-9-9	13-13-13	16-16-17	20-20-21	22-23-24	24-25-26	27-27-27	30-30-30
	Side Wall	6-8-11	10-13-17	13-17-21	16-20-25	20-25-30	22-28-34	24-30-37	28-35-42	31-38-45
5"	Flow CFM/Ft.	72	107	143	179	215	250	286	322	358
	NC	-	-	12	18	23	27	31	34	37
	Theow. Ft.	4-4-4	10-10-10	14-14-14	18-18-18	22-22-23	24-24-24	27-27-28	30-30-31	32-32-32
	Side Wall	8-10-13	11-14-18	15-19-23	18-22-27	22-27-32	24-30-36	27-33-40	30-37-44	34-41-48
6"	Flow CFM/Ft.	88	133	177	221	265	310	354	398	442
	NC	-	-	13	19	24	28	32	35	38
	Theow. Ft.	5-5-5	10-10-10	15-15-15	18-18-18	23-23-23	25-25-25	28-28-28	31-31-31	32-32-32
	Side Wall	8-12-15	13-16-20	16-20-24	20-24-29	24-29-34	28-33-38	30-36-41	34-40-46	38-44-50

CMT-16 15° Deflection

1/2" Spacing

Size/Area	Total Pressure	.009	.020	.036	.057	.080	.109	.143	.182	.225
1 1/2"	Flow CFM/Ft.	16	23	31	39	47	55	62	70	78
	NC	-	17	26	32	37	42	46	49	52
	Theow. Ft.	1-1-1	3-3-3	5-5-5	8-8-8	9-9-10	10-11-13	12-13-15	13-15-17	14-15-18
	Side Wall	2-4-6	4-7-10	6-10-14	8-13-18	9-14-20	10-16-23	12-18-25	13-20-27	14-22-30
2"	Flow CFM/Ft.	22	34	45	56	67	78	90	101	112
	NC	-	11	19	25	30	35	39	43	46
	Theow. Ft.	1-1-1	4-4-4	7-7-7	9-9-10	11-12-13	12-14-16	14-16-18	15-17-20	18-19-21
	Side Wall	3-5-7	5-8-12	7-11-16	9-14-20	11-17-23	12-18-25	14-20-27	15-22-30	18-26-34
2 1/2"	Flow CFM/Ft.	30	45	60	75	90	105	120	135	150
	NC	-	10	18	24	29	34	38	42	45
	Theow. Ft.	1-1-1	5-5-5	8-8-9	11-11-12	13-14-15	15-16-18	17-19-21	20-21-22	22-22-23
	Side Wall	4-6-8	8-9-13	8-12-17	11-16-21	13-19-25	15-21-27	17-24-31	20-27-35	22-30-38
3"	Flow CFM/Ft.	37	56	74	93	112	130	149	167	186
	NC	-	-	17	23	28	33	37	41	44
	Theow. Ft.	2-2-2	5-6-6	10-10-10	12-12-13	15-16-17	18-19-20	20-21-23	23-23-24	25-25-25
	Side Wall	4-6-9	7-10-14	10-13-18	12-17-22	15-20-26	18-24-30	20-26-33	23-30-37	25-32-40
3 1/2"	Flow CFM/Ft.	45	68	90	113	136	158	181	203	226
	NC	-	-	17	23	28	33	37	41	44
	Theow. Ft.	2-2-2	7-7-7	12-12-12	14-14-15	17-18-19	20-21-22	22-23-24	25-25-26	27-27-27
	Side Wall	5-7-10	8-11-15	12-16-20	14-18-23	17-22-27	20-25-31	22-28-35	25-32-38	27-34-42
4"	Flow CFM/Ft.	53	80	106	133	160	186	212	239	266
	NC	-	10	18	24	29	34	38	42	45
	Theow. Ft.	3-3-3	8-8-9	13-13-13	15-15-16	19-19-20	22-22-23	24-24-25	26-26-27	30-30-30
	Side Wall	6-8-11	9-12-18	13-17-21	15-19-24	19-24-29	22-27-33	24-30-36	28-33-40	30-37-44
5"	Flow CFM/Ft.	69	104	138	173	208	242	277	312	346
	NC	-	10	18	24	29	34	38	42	45
	Theow. Ft.	4-4-4	9-9-9	14-14-14	17-17-17	20-21-22	24-24-24	26-26-27	29-29-29	32-32-32
	Side Wall	8-10-13	11-14-18	15-19-23	17-21-28	20-25-31	24-29-35	28-33-38	29-35-42	32-39-46
6"	Flow CFM/Ft.	85	127	170	212	254	296	339	382	424
	NC	-	10	18	24	29	34	38	42	45
	Theow. Ft.	5-5-5	10-10-10	15-15-15	18-18-18	23-23-23	25-25-25	28-28-28	30-30-30	34-34-34
	Side Wall	8-11-14	13-16-20	18-20-24	20-24-28	23-27-32	25-30-36	28-33-39	31-37-43	35-41-47



Linear Bar > Performance Data

CMTE - 15 ■ 1/5" Bars ■ 0° Deflection 7/10" Spacing
 CMTE - 16 ■ 1/5" Bars ■ 15° Deflection 7/10" Spacing

Air flow rate	Nominal dimensions	max. Throw Lt	pressure drop	Effective Velocity	Sound Level
(m3/h)	(B x H (mm	(m)	(pa)	(Vk (m/s	(Db)
100	200x73	5	14	4.2	30-35
	200x73	6.5	37	6.7	40-45
	300x73	5	13	4.4	30-35
	200x100	5	14	4.2	30-35
	400x73	4.5	9	3.1	20-25
	300x100	4.5	8	3	20-25
200	500x73	4	5	2.1	15-20
	300x125	3.5	4.5	1.9	15-20
	300x73	7	30	6.3	35-40
	200x100	7	29	6.1	35-40
	400x73	5.5	15	4.2	25-30
	300x100	5.5	13	4	25-30
	500x73	5	9	3.3	20-25
	300x 125	5	8	3.1	20-25
	400x100	4.5	6.5	2.9	20-25
250	600x73	4.5	6.0	2.5	20-25
	400x73	7	20	5.3	30-35
	300x100	7	19	5.1	30-35
	500x73	6.5	13	4.2	25-30
	300x125	6.5	12	4.0	25-30
	400x100	5.5	9.5	3.2	20-25
	600x73	5.5	9	2.9	20-25
	500x100	5	7	2.8	15-20
	400x125	5	6.5	2.7	15-20
300	800x73	4.5	5	2.6	15-20
	600x100	4.5	4.5	2.2	15-20
	500x73	7.5	19	5	30-35
	300x125	7.5	17	4.9	30-35
	400x100	6.5	15	4.5	30-35
	600x73	6.5	13	4.2	30-35
	500x100	6	9.5	3.7	20-25
	400x125	6	8	3.4	20-25
	800x73	5.5	7	3.0	20-25
	600x100	5	6.5	2.8	20-25
	400x150	5	6.0	2.6	20-25
	500x125	4.5	5	2.4	15-20





Linear Bar > Performance Data

CMTE - 15 ■ 1/5" Bars ■ 0° Deflection 7/10" Spacing
 CMTE - 16 ■ 1/5" Bars ■ 15° Deflection 7/10" Spacing

Air flow rate	Nominal dimensions	max. Throw Lt	pressure drop	Effective Velocity	Sound Level
(m3/h)	(B x H (mm	(m)	(pa)	(Vk (m/s	(Db)
400	400x100	8.5	28	5.9	35-40
	600x73	8.5	24	5.6	35-40
	500x100	8	17	4.9	30-35
	400x125	8	15	4.3	30-35
	800x73	7	13	4.0	25-30
	600x100	7	10	3.7	25-30
	400x150	6.5	9.5	3.6	25-30
	500x125	6.5	9	3.4	20-25
	1000x73	6.5	8	3.1	20-25
	600x125	6	6.5	3	20-25
	800x100	6	6.0	2.9	25-30
	500x150	6	7	3.2	20-25
	400x203	5.5	5.5	2.8	15-20
	600x150	5.5	5	2.6	15-20
	1000x100	5	4.5	2.4	15-20
500	800x125	5	4.0	2.1	15-20
	500x100	9	28	6.2	35-40
	400x125	9	24	5.5	35-40
	800x73	8.5	21	5	30-35
	600x100	8.5	18	4.9	30-35
	400x150	8.5	17	4.7	30-35
	500x125	8	13	4.5	25-30
	1000x73	8	12	4	25-30
	600x125	7.5	9.5	3.9	20-25
	800x100	7.5	9	3.6	20-25
	500x150	7.5	10	3.5	20-25
	400x203	7.5	9	3.4	20-25
	600x150	6.5	8	3.1	20-25
	1000x100	6.5	6	2.7	15-20
	800x125	6	5.5	2.8	15-20
	500x203	6	5	2.4	15-20
	800x150	6	4.5	2.5	15-20
	1000x125	6	4	2.3	15-20



Linear Bar > Performance Data

CMTE - 15 ■ 1/5" Bars ■ 0° Deflection 7/10" Spacing
 CMTE - 16 ■ 1/5" Bars ■ 15° Deflection 7/10" Spacing

Air flow rate	Nominal dimensions	max. Throw Lt	pressure drop	Effective Velocity	Sound Level
(m3/h)	(B x H (mm)	(m)	(pa)	(Vk (m/s	(Db)
600	500x125	9.5	22	5.1	30-35
	1000x73	9	18	4	30-35
	600x125	8.5	14	4.1	30-35
	800x100	8.5	12	4.4	25-30
	500x150	8.5	11	4.5	25-30
	400x203	8	11	4.2	25-30
	600x150	7.5	10	3.6	25-30
	1000x100	7.5	9	3.5	20-25
	800x125	7.5	8.5	3.3	20-25
	500x203	7	8	3.1	20-25
	800x150	7	7	2.4	20-25
	1000x125	7	5.5	2.5	15-20
700	600x203	7	5	2.4	15-20
	1000x73	10	24	5.9	35-40
	600x125	9.5	20	5.3	35-40
	800x100	9.5	18	5	30-35
	500x150	9.5	23	5.6	35-40
	400x203	9.5	17	4.5	30-35
	600x150	9.0	14	4.2	30-35
	1000x100	8.5	12	3.7	25-30
	800x125	8.5	10	3.3	25-30
	500x203	8.5	19	3.5	25-30
	800x150	8	8	3.1	20-25
	1000x125	8	7	3	15-20
	600x203	8	5	3.3	15-20
	1000x150	7.5	4.5	2.4	15-20
	500x203	7	4	2.1	15-20
800	400x203	10.5	25	5.5	35-40
	600x150	10	18	5.0	35-40
	1000x100	9.5	14	4.7	30-35
	800x125	9.5	12	4.4	25-30
	500x203	9.5	14	4.6	30-35
	800x150	9	10	3.6	20-25
	1000x125	9	9.0	3.4	20-25
	600x203	9	8.5	3.3	20-25
	1000x150	8.5	6.5	2.8	20-25
	500x297	8	6.0	2.6	20-25
	800x203	8	5.5	2.5	15-20
	600x297	7	5.0	2.2	15-20



Linear Bar > Performance Data

CMTE - 15 ■ 1/5" Bars ■ 0° Deflection 7/10" Spacing
 CMTE - 16 ■ 1/5" Bars ■ 15° Deflection 7/10" Spacing

Air flow rate	Nominal dimensions	max. Throw Lt	pressure drop	Effective Velocity	Sound Level
(m3/h)	(B x H (mm	(m)	(pa)	(Vk (m/s	(Db)
900	1000x100	10.5	20	5.3	35-40
	800x125	10.5	18	4.8	35-40
	500x203	10.5	19	5	35-40
	800x150	10	15	4.1	30-35
	1000x125	9.5	14	3.7	25-30
	600x203	9.5	12	4.0	25-30
	1000x150	9	9.5	3.2	20-25
	500x297	8.5	8	3.0	20-25
	800x203	8.5	7	2.9	20-25
1000	600x297	8	5.5	2.7	15-20
	1000x203	8.0	5	2.3	15-20
	1000x125	11	15	4.1	25-30
	600x203	10.5	17	4.7	30-35
	1000x150	9.5	10	3.6	20-25
	500x297	9.5	8.5	3.4	20-25
	800x203	9	7.5	3.2	20-25
	600x297	8.5	5.5	2.9	15-20
	1000x203	8.5	5	2.7	15-20
1200	800x297	7.5	4.5	2.0	15-20
	600x203	13	24	5.3	35-40
	1000x150	11	16	4.2	30-35
	500x297	11	15	4.0	25-30
	800x203	10.5	13	3.9	25-30
	600x297	10	9	3.6	20-25
	1000x203	9.5	8.5	3.2	20-25
	800x297	8.5	6	2.8	15-20



Linear Bar > Specifications

Performance Notes:

- All pressures are in inches of water.
- Throw velocities are given for terminal velocities of 100, 150, and 50 fpm. For an explanation of catalog throw data, see page B13.
- Throw values are based on an active section 4 ft. long. Multipliers for correcting the throw for other lengths are shown in the table below.

Throw Correction for Length (multiply)

Active Length (ft)	2	4	8	10
Throw Correction	0.72	1	1.5	1.7

- NC values are based on a room absorption of 10 dB, re 10¹²- watts, with a 4ft. active diffuser section. Corrections for other lengths are shown in the table below.

NC Correction for Length (add)

Active Length (ft)	2	4	6	8	10
NC Correction	3	0	2	3	5-

- When the diffuser is used as a return intake, the NC value is increased by 4, and the negative static pressure is 0.8 times the listed total pressure.
- Dash (-) in space denotes an NC value less than 10.

- For continuous lengths, the selection for NC is usually based on a 10 ft. section.

- Maximum available width 24 in. except frames 6, 5, and 15 (12 in. width). Consult your  representative for performance data.

- For continuous lengths it is recommended that maximum active lengths are no longer than 10 feet.