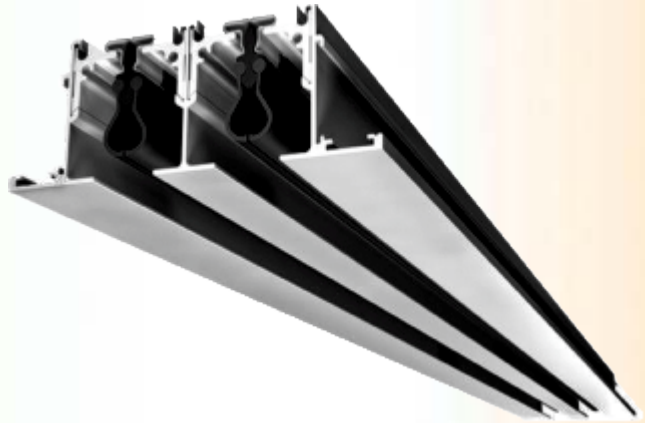
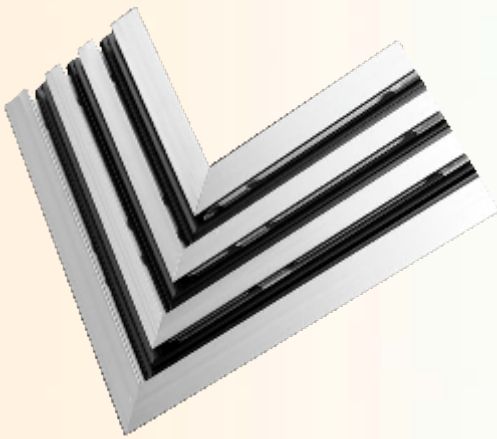
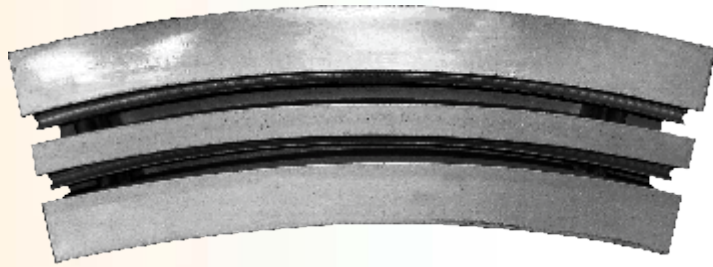




ML

LINEAR CEILING DEFFUSER



LINEAR > Linear ceiling Diffuser

Linear Slot > Description, Borders

Linear Slot

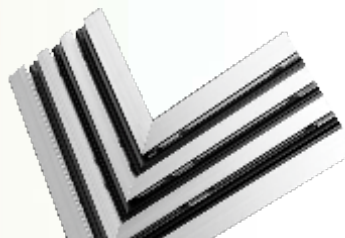
Aluminum
Modulinear

Supply Models:

ML37- ■ 1/2" Slot
ML38- ■ 3/4" Slot
ML39- ■ 1" Slot

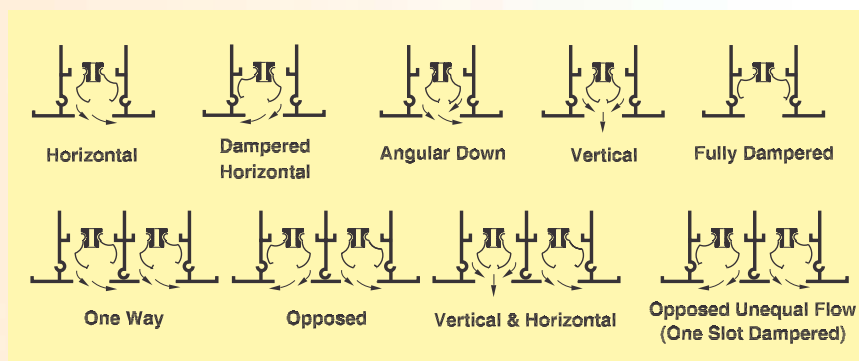
Return Models:

MLR37- ■ 1/2" Slot
MLR38- ■ 3/4" Slot
MLR39- ■ 1" Slot



- **MASTER GRILLE** modulinear diffusers are designed for variable air volume systems. They project a uniform blanket of air that adheres to the ceiling even at low flow rates.
- Both the direction and volume of the discharge air can be adjusted gradually by moving the pattern controllers (see diagrams below).

- Full °180 pattern controller adjustment means there are no "lefts" or "rights." Specifying, ordering, and installing are simplified.
- Model MLR returns are the same as the Model ML supply diffusers except that the pattern controllers are omitted.
- Choice of borders and mounting frames for various types of installations (diagrams below and on next page).
- Available with one to eight slots.
- 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.
- Optional Model MLF and MLRF diffusers are designed for field cutting to length and are furnished in 6 ft. sections.
- Maximum pattern controller length is 3 ft. Pattern controllers are furnished in multiple sections for a diffuser longer than 3 ft.
- Mounting frames are cut to length and assembled in the field.
- Material is extruded aluminum with steel pattern controllers.
- Optional curving to a 6 ft. minimum radius available for architectural enhancement (fixed blades only).

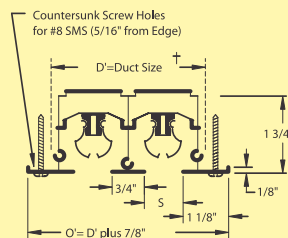


These Products Include:

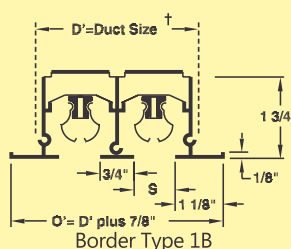
- Standard Finish:
26# White border
Black pattern controllers
- Optional Finishes:
Anodized finishes available

Border Types 1A, 1B both with

- Flange Border
- (1A) Screw Mounting
- (1B) Duct Mounting,
No Screw Holes



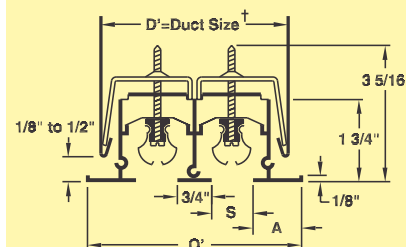
Border Type 1A



Border Type 1B

Border Types 2A, 2B both with

- Flange Border
- Concealed Mounting



Type	A	O'
2A	1 1/8"	D' + 3/4"
2B	7/8"	D' + 1/4"

Number of Slots	ML - 37 S 12.5 mm		ML - 38 S 15.75 mm		ML - 39 S 25 mm	
	D mm	O mm	D mm	O mm	D mm	O mm
1	79	88.5	75	83	62	99
2	78	117	50	129.5	101	172
3	107	177.5	125	166	111	185
4	137	178	162	203	187	228
5	176	208.5	201	240	233	271
6	205	229	242	276.5	289	314
7	242	269.5	285	315	329	357
8	280	300	330	350	380	400

All dimensions are in inches.

MASTER GRILLE
Manufactured in the USA

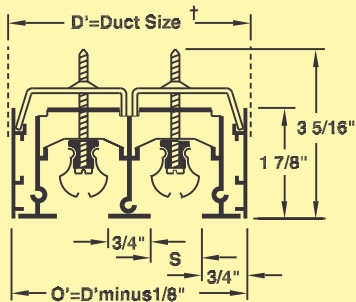




Linear Slot > Frames and Borders

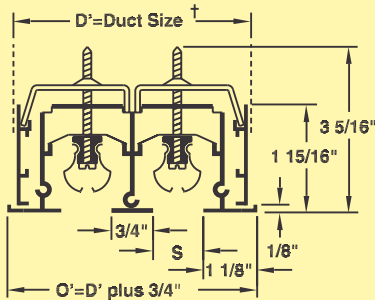
Frame & Border Type 3 with

- Flush Border
- Concealed Mounting



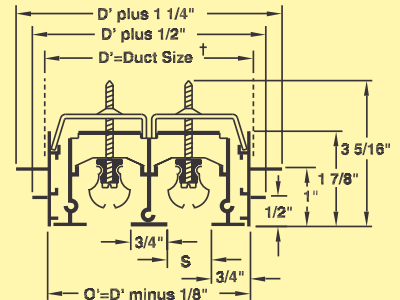
Frame & Border Type 4 with

- Flange Border
- Concealed Mounting



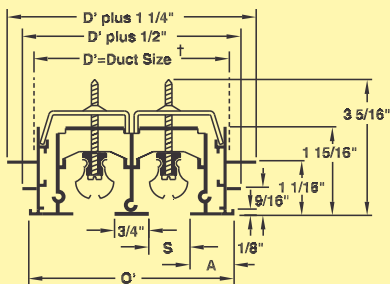
Frame & Border Type 6 with

- Plaster & Tile Mounting Frame
- Flush Border
- Concealed Mounting



Frame & Border Types 7A, 7B with

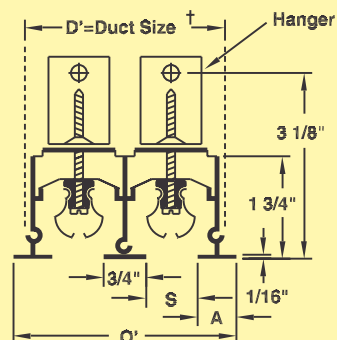
- Plaster & Tile Mounting Frame
- Flange Border
- Concealed Mounting



Type	A	O'
7A	1 1/8"	D' + 3/4"
7B	7/8"	D' + 1/4"

Border Types 9A, 9B with

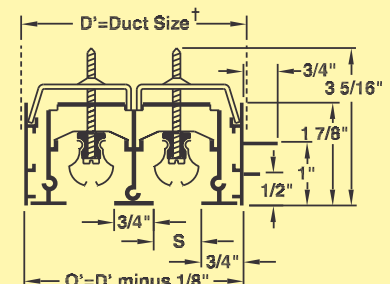
- Flange Border
- Ceiling Hangers



Type	A	O'
9A	3/4"	D' + 5/8"
9B	1 1/8"	D' + 1 3/8"

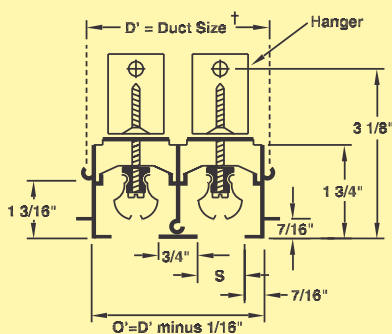
Border Type 11 with

- Perimeter Plaster & Tile Mounting Frame
- Flush Border
- Concealed Mounting



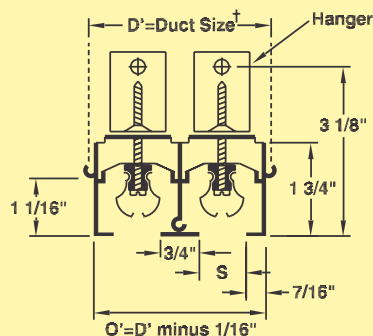
Border Type 12 with

- Spline Border
- Ceiling Hangers



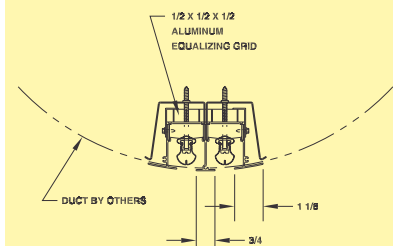
Border Type 15 with

- Flush Border
- Ceiling Hangers



Border Type 16 with

- Curved Flange Border
- Concealed Mounting
- Equalizing Grid

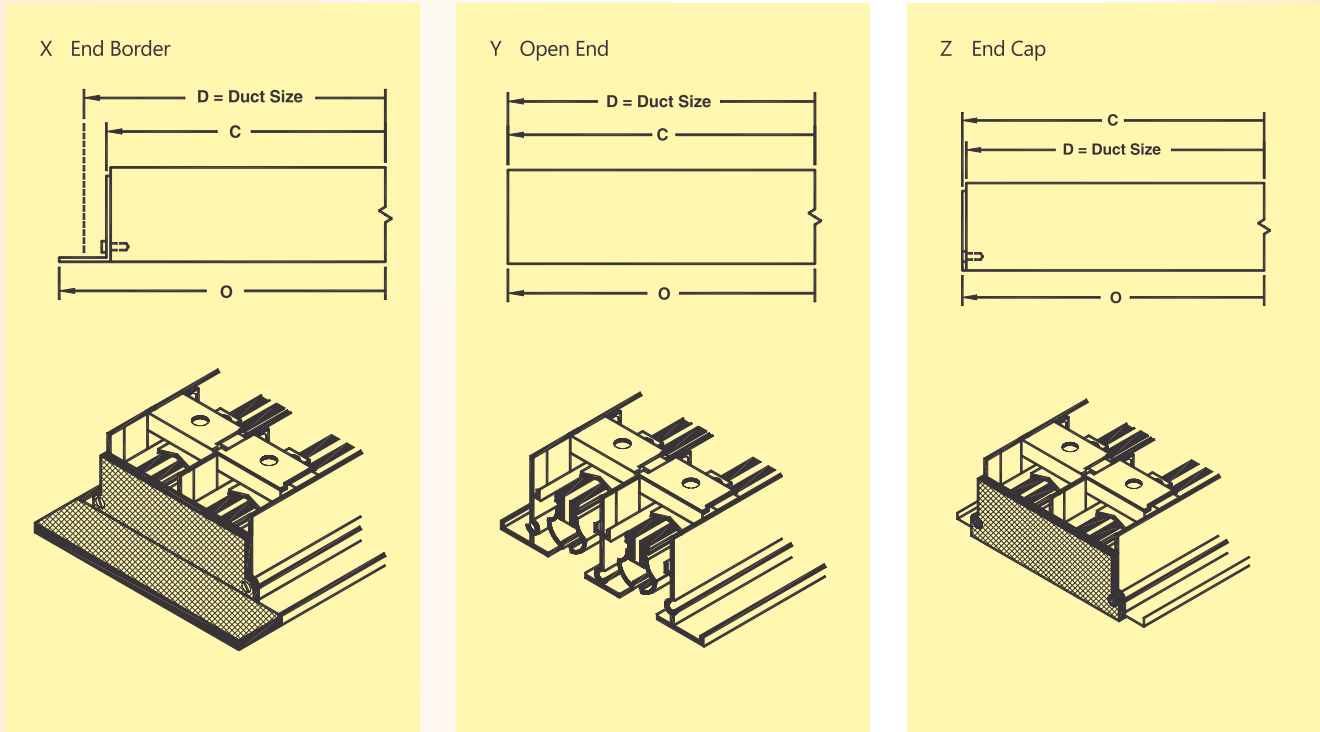


Standard selections: ML38- only
 1 slot: duct diameters 24, 22, 18, 14, 10"
 2 slot: duct diameters 24, 22, 18, 14, 12"
 3 slot: duct diameters 30, 26, 24, 22, 20, 18, 16, 14"
 4 slot: duct diameters 32, 30, 28, 26, 24, 22, 20, 18"

All dimensions are in inches.

Linear Slot > Dimensions

End Fabrication



Overall Length for Various End Fabrications

Frame and/or Border Type	X-X		X-Y		X-Z		Y-Y		Y-Z		Z-Z	
	C	O	C	O	C	O	C	O	C	O	C	O
1A, 1B, 9B	$D - 1\frac{3}{8}$	$D + \frac{3}{4}$	$D - \frac{11}{16}$	$D + \frac{3}{8}$	$D - \frac{5}{8}$	$D + \frac{7}{16}$	D	D	$D + \frac{1}{16}$	$D + \frac{1}{16}$	$D + \frac{1}{8}$	$D + \frac{1}{8}$
2A, 7, 4A	$D - 1\frac{3}{8}$	$D + \frac{3}{4}$	$D - \frac{11}{16}$	$D + \frac{3}{8}$	$D - \frac{5}{8}$	$D + \frac{7}{16}$	D	D	$D + \frac{1}{16}$	$D + \frac{1}{16}$	$D + \frac{1}{8}$	$D + \frac{1}{8}$
11, 6, 3	$D - 1\frac{3}{8}$	D	$D - \frac{11}{16}$	D	$D - \frac{5}{8}$	$D + \frac{1}{16}$	D	D	$D + \frac{1}{16}$	$D + \frac{1}{16}$	$D + \frac{1}{8}$	$D + \frac{1}{8}$
2B, 7B	$D - 1\frac{3}{8}$	$D + \frac{1}{4}$	$D - \frac{11}{16}$	$D + \frac{1}{4}$	$D - \frac{5}{8}$	$D + \frac{3}{16}$	D	D	$D + \frac{1}{16}$	$D + \frac{1}{16}$	$D + \frac{1}{8}$	$D + \frac{1}{8}$
9A	$D - 1\frac{3}{8}$	D	$D - \frac{11}{16}$	D	$D - \frac{5}{8}$	$D + \frac{1}{16}$	D	D	$D + \frac{1}{16}$	$D + \frac{1}{16}$	$D + \frac{1}{8}$	$D + \frac{1}{8}$
15, 12	$D - \frac{11}{16}$	D	$D - \frac{5}{16}$	D	$D - \frac{1}{4}$	$D + \frac{1}{16}$	D	D	$D + \frac{1}{16}$	$D + \frac{1}{16}$	$D + \frac{1}{8}$	$D + \frac{1}{8}$
16	$D - 1\frac{3}{8}$	$D + \frac{3}{4}$	$D - \frac{11}{16}$	$D + \frac{3}{8}$	N/A	N/A	D	D	N/A	N/A	N/A	N/A

Duct Dimension D' (Width) for Various Frame & Border Types

No. of Slots	Types 1A, 1B			Types 2A, 2B, 4, 7A, 7B, 16			Types 3, 6, 11			Types 9A, 9			Types 15, 12		
	ML/MLR 37	ML/MLR 38	ML/MLR 39	ML/MLR 37	ML/MLR 38	ML/MLR 39	ML/MLR 37	ML/MLR 38	ML/MLR 39	ML/MLR 37	ML/MLR 38	ML/MLR 39	ML/MLR 37	ML/MLR 38	ML/MLR 39
	S = $\frac{1}{8}$	S = $\frac{3}{8}$	S = 1	S = $\frac{1}{8}$	S = $\frac{3}{8}$	S = 1	S = $\frac{1}{8}$	S = $\frac{3}{8}$	S = 1	S = $\frac{1}{8}$	S = $\frac{3}{8}$	S = 1	S = $\frac{1}{8}$	S = $\frac{3}{8}$	S = 1
1	$1\frac{7}{8}$	$2\frac{1}{8}$	$2\frac{3}{8}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{3}{8}$	$2\frac{5}{8}$	$1\frac{3}{8}$	$1\frac{5}{8}$	$1\frac{7}{8}$	$1\frac{3}{8}$	$1\frac{5}{8}$	$1\frac{7}{8}$
2	$3\frac{1}{8}$	$3\frac{5}{8}$	$4\frac{1}{8}$	$3\frac{1}{4}$	$3\frac{3}{4}$	$4\frac{1}{4}$	$3\frac{3}{8}$	$3\frac{7}{8}$	$4\frac{3}{8}$	$2\frac{5}{8}$	$3\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{5}{8}$	$3\frac{1}{8}$	$3\frac{5}{8}$
3	$4\frac{3}{8}$	$5\frac{1}{8}$	$5\frac{7}{8}$	$4\frac{1}{2}$	$5\frac{1}{4}$	6	$4\frac{5}{8}$	$5\frac{3}{8}$	$6\frac{1}{8}$	$3\frac{7}{8}$	$4\frac{5}{8}$	$5\frac{3}{8}$	$3\frac{7}{8}$	$4\frac{5}{8}$	$5\frac{3}{8}$
4	$5\frac{5}{8}$	$6\frac{5}{8}$	$7\frac{5}{8}$	$5\frac{3}{4}$	$6\frac{3}{4}$	$7\frac{3}{4}$	$5\frac{7}{8}$	$6\frac{7}{8}$	$7\frac{7}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$	$7\frac{1}{8}$	$5\frac{1}{8}$	$6\frac{1}{8}$	$7\frac{1}{8}$
5	$6\frac{7}{8}$	$8\frac{1}{8}$	$9\frac{3}{8}$	7	$8\frac{1}{4}$	$9\frac{1}{2}$	$7\frac{1}{8}$	$8\frac{3}{8}$	$9\frac{5}{8}$	$6\frac{3}{8}$	$7\frac{5}{8}$	$8\frac{7}{8}$	$6\frac{3}{8}$	$7\frac{5}{8}$	$8\frac{7}{8}$
6	$8\frac{1}{8}$	$9\frac{5}{8}$	$11\frac{1}{8}$	$8\frac{1}{4}$	$9\frac{3}{4}$	$11\frac{1}{4}$	$8\frac{3}{8}$	$9\frac{7}{8}$	$11\frac{3}{8}$	$7\frac{5}{8}$	$9\frac{1}{8}$	$10\frac{5}{8}$	$7\frac{5}{8}$	$9\frac{1}{8}$	$10\frac{5}{8}$
7	$9\frac{3}{8}$	$11\frac{1}{8}$	$12\frac{7}{8}$	$9\frac{1}{2}$	$11\frac{1}{4}$	13	$9\frac{5}{8}$	$11\frac{3}{8}$	$13\frac{1}{8}$	$8\frac{7}{8}$	$10\frac{5}{8}$	$12\frac{3}{8}$	$8\frac{7}{8}$	$10\frac{5}{8}$	$12\frac{3}{8}$

All dimensions are in inches.



Linear Slot > Accessories

Linear Slot Accessories (optional)

Field Cut Diffusers

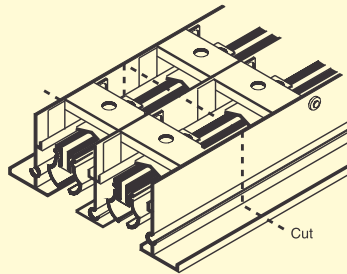
Supply Models:

- MLF-37 ■ 1/2" Slot
- MLF-38 ■ 3/4" Slot
- MLF-39 ■ 1" Slot

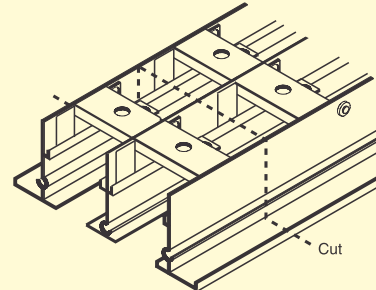
Return Models:

- MLRF-37 ■ 1/2" Slot
- MLRF-38 ■ 3/4" Slot
- MLRF-39 ■ 1" Slot

MLF □ Supply



MLRF □ Return



Ideal when the exact length of an ML or MLR diffuser is not known until it is being installed.

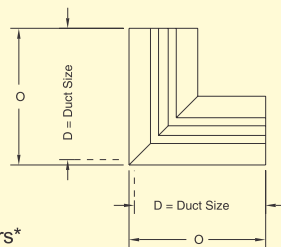
Standard factory cut diffusers can be trimmed up to 6 inches. If more than 6 inches are to be removed, use the optional field cut diffuser.

The field cut ML or MLR diffuser is 72 in. long, with the sides pre-punched to assure the proper alignment of field installed spacers. These field installed spacers provide additional rigidity during and after cutting.

Mitered Corners

Models:

- MC-37 □ 1/2" Slot
- MC-38 □ 3/4" Slot
- MC-39 □ 1" Slot



Dimensions for 90° Mitered Corners*

No. of Slots	1A, 1B		2A, 4, 7A		2B, 7B		3, 6, 11		9A		9B		12, 15	
	O	D	O	D	O	D	O	D	O	D	O	D	O	D
1, 2	12 ⁷ / ₁₆	12	12 ³ / ₈	12	12 ¹ / ₈	12	11 ⁷ / ₈	12	12 ⁵ / ₁₆	12	12 ¹¹ / ₁₆	12	12	12
3-8	24 ⁷ / ₁₆	24	24 ³ / ₈	24	24 ¹ / ₈	24	23 ⁷ / ₈	24	24 ⁵ / ₁₆	24	24 ¹¹ / ₁₆	24	24	24

*Note:

Dimensions shown will vary for other angles

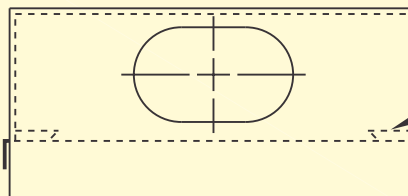
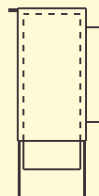
Plenums

Uninsulated Models:

- MP-37 □ 1/2" Slot
- MP-38 □ 3/4" Slot
- MP-39 □ 1" Slot

Insulated Models:

- MPI-37 □ 1/2" Slot
- MPI-38 □ 3/4" Slot
- MPI-39 □ 1" Slot

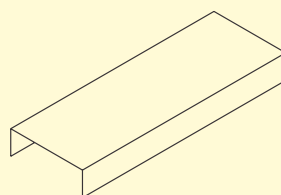


Optional
MP-SP Design

(For applications when maximum spread is needed to shorten throw)

Blank-Offs

- BLKS □ Cold Rolled Steel
- Fits over Neck
- Black Finish
- BLKV □ Vinyl
- Fits in Slot
- Black Finish



Furnished in 6 ft. lengths. Field installed.

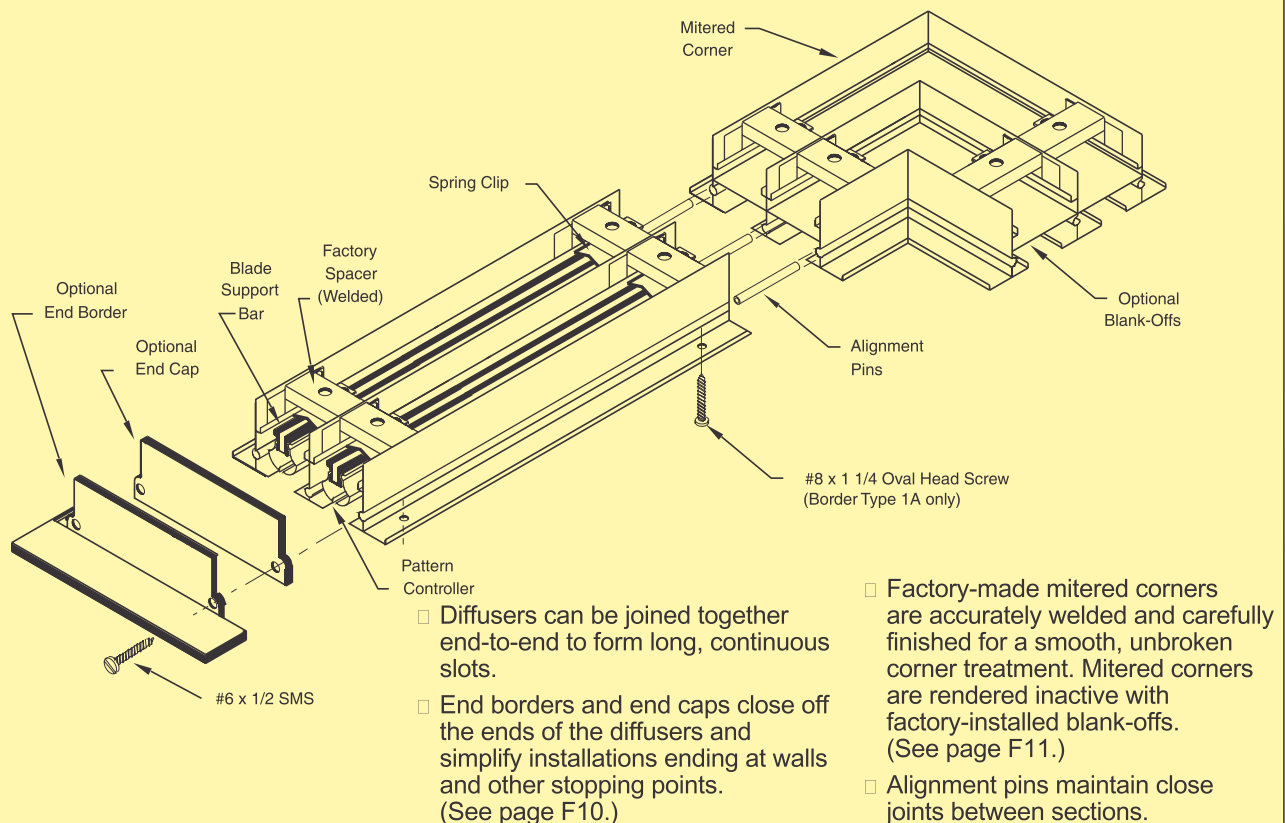
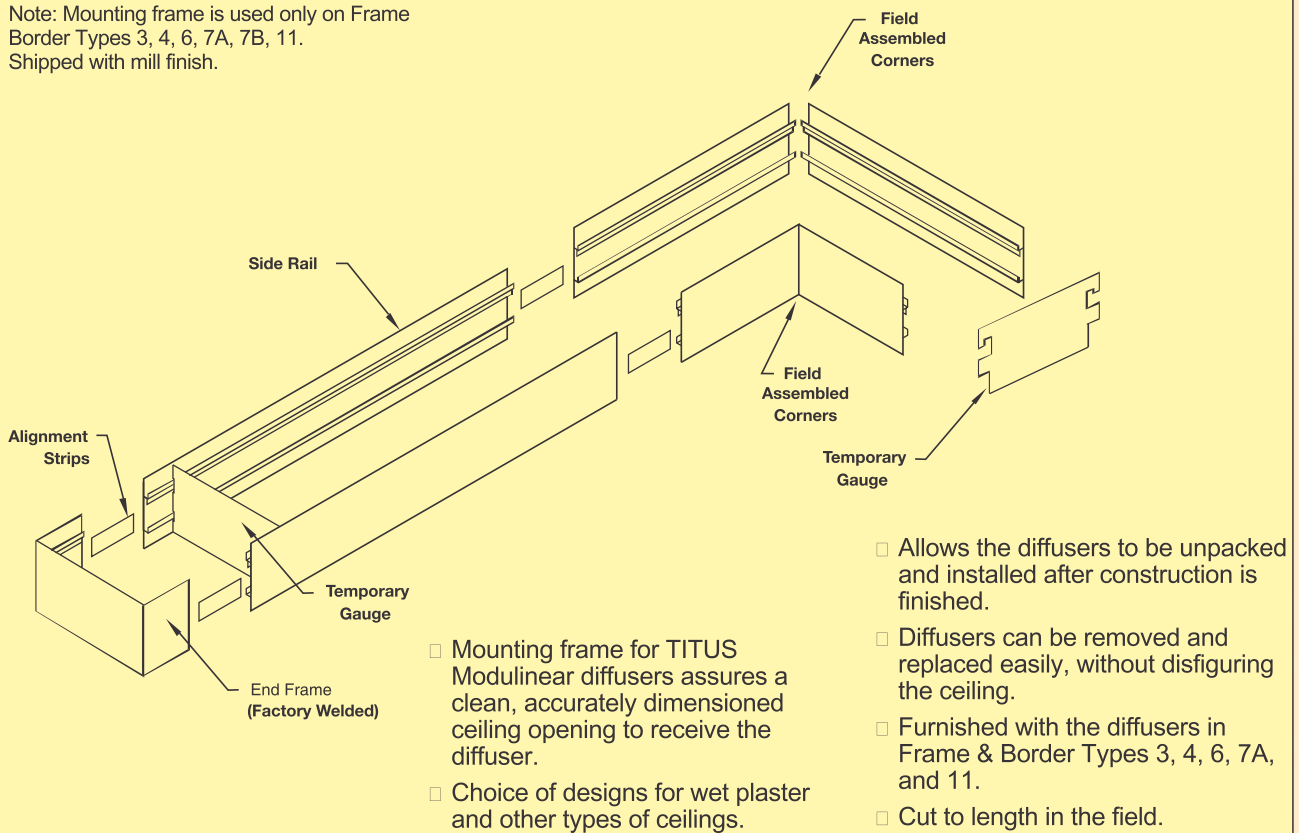
All dimensions are in inches.



Linear Slot > Installation Aids

Mounting Frame Assembly

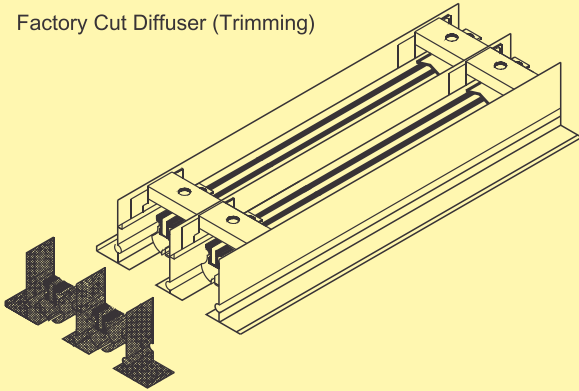
Note: Mounting frame is used only on Frame Border Types 3, 4, 6, 7A, 7B, 11. Shipped with mill finish.





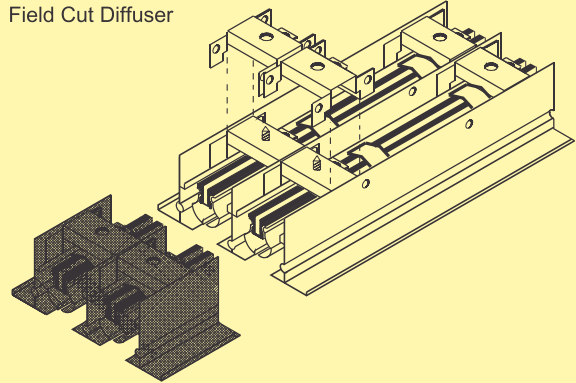
Linear Slot > Installation Aids Trimming, Cutting, Hanging

Factory Cut Diffuser (Trimming)



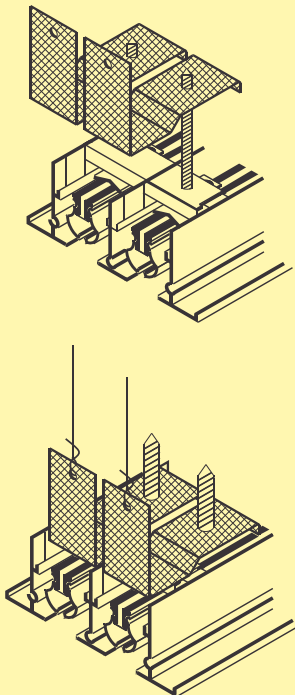
- TITUS Modulinear diffusers are so simple and rugged that they are routinely cut to length in the field with a fine tooth, high speed carbon steel metal cutting blade.
- Factory-cut diffuser Model ML (above) or MLR is ordered for a specified length from the factory, but still can be trimmed as much as 3 in. from each end in the field.

Field Cut Diffuser



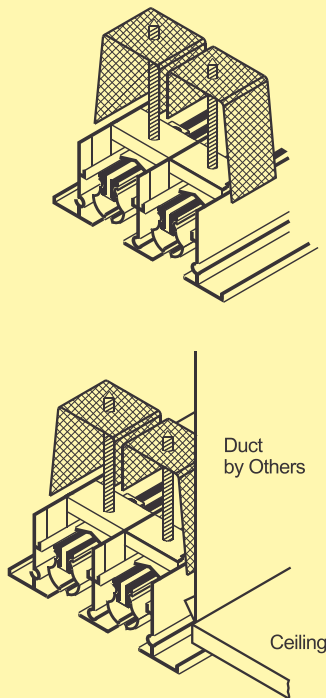
- Field-cut diffuser Model MLF (above) or MLRF is shipped in standard 6 ft. lengths.
- Model MLF or MLRF diffuser can be cut to any length. Field-installed spacers and other hardware are furnished with the diffuser for one field cut. Additional field cut kits are available at additional cost.
- Unit is shipped without end caps or end borders.

Hanger Bracket
for Border Types 9A, 9B, 12, 15



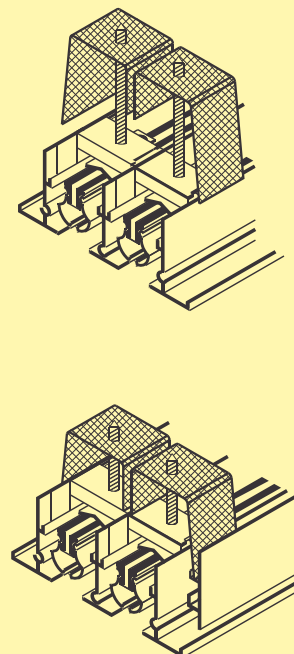
These hanger brackets are a convenient means of attaching hanger wires to support the diffuser from the structural members of the building.

Hanger Bracket
for Border Types 2A, 2B



Here the diffuser is simply pushed up into the duct until the outer legs of the hanger brackets snap into the hems of the duct. Screws then snug the diffuser against the ceiling.

Hanger Bracket
for Frame & Border
Types 3, 4, 6, 7A, 7B, 11



For installation in a TITUS mounting frame, these hanger brackets function like the duct type brackets at the left. The outer legs of the brackets engage the side rails of the mounting frame.

Note: Hanger brackets are for use with - end fabrication only.



Linear Slot > Performance Data

Model: ML-37 ■ 1/2" Slot ■ Supply

1 Slot	Airflow, cfm/ft.	5	10	16	21	26	31	36	42	47
	Static Pressure	0.006	0.023	0.051	0.090	0.141	0.203	0.277	0.361	0.458
	NC (Noise Criteria)	-	-	20	27	32	37	40	44	46
	Horizontal	1 - 1 - 6	3 - 6 - 12	6 - 11 - 15	10 - 12 - 17	11 - 14 - 19	12 - 15 - 21	13 - 16 - 23	14 - 17 - 25	15 - 18 - 26
	Vertical	2	6	9	11	12	14	15	16	17
2 Slot	Airflow, cfm/ft.	10	21	31	42	52	62	73	83	94
	Static Pressure	0.006	0.023	0.051	0.090	0.141	0.203	0.277	0.361	0.458
	NC (Noise Criteria)	-	13	23	30	35	40	43	47	49
	Horizontal	1 - 3 - 10	5 - 10 - 17	10 - 15 - 21	14 - 17 - 25	16 - 19 - 28	17 - 21 - 30	19 - 23 - 33	20 - 25 - 35	21 - 26 - 37
	Vertical	4	8	13	16	17	19	20	22	24
3 Slot	Airflow, cfm/ft.	16	31	47	62	78	94	109	125	140
	Static Pressure	0.006	0.023	0.051	0.090	0.141	0.203	0.277	0.361	0.458
	NC (Noise Criteria)	-	15	25	32	37	41	45	48	51
	Horizontal	2 - 4 - 13	7 - 13 - 21	13 - 18 - 26	17 - 21 - 30	19 - 24 - 34	21 - 26 - 37	23 - 28 - 40	25 - 30 - 43	26 - 32 - 45
	Vertical	5	10	15	19	21	23	25	27	28
4 Slot	Airflow, cfm/ft.	21	42	62	83	104	125	146	166	187
	Static Pressure	0.006	0.023	0.051	0.090	0.141	0.203	0.277	0.361	0.458
	NC (Noise Criteria)	-	16	26	33	38	43	46	50	52
	Horizontal	3 - 6 - 14	10 - 14 - 25	14 - 21 - 30	19 - 25 - 35	22 - 28 - 39	25 - 30 - 43	27 - 33 - 46	28 - 35 - 49	30 - 37 - 52
	Vertical	7	12	18	22	25	27	29	31	33
5 Slot	Airflow, cfm/ft.	26	52	78	104	130	156	182	208	234
	Static Pressure	0.006	0.023	0.051	0.090	0.141	0.203	0.277	0.361	0.458
	NC (Noise Criteria)	-	17	27	34	39	44	47	51	53
	Horizontal	3 - 7 - 16	11 - 16 - 28	16 - 24 - 34	22 - 28 - 39	25 - 31 - 44	28 - 34 - 48	30 - 36 - 52	32 - 39 - 55	34 - 41 - 58
	Vertical	7	14	20	25	28	30	32	35	37
6 Slot	Airflow, cfm/ft.	31	62	94	125	156	187	218	250	281
	Static Pressure	0.006	0.023	0.051	0.090	0.141	0.203	0.277	0.361	0.458
	NC (Noise Criteria)	-	18	28	35	40	44	48	51	54
	Horizontal	4 - 9 - 18	12 - 18 - 30	18 - 26 - 37	24 - 30 - 43	28 - 34 - 48	30 - 37 - 52	33 - 40 - 56	35 - 43 - 60	37 - 45 - 64
	Vertical	7	16	22	27	30	33	35	38	40
7 Slot	Airflow, cfm/ft.	36	73	109	146	182	218	255	291	328
	Static Pressure	0.006	0.023	0.051	0.090	0.141	0.203	0.277	0.361	0.458
	NC (Noise Criteria)	-	19	29	35	41	45	49	52	55
	Horizontal	6 - 10 - 19	13 - 19 - 33	19 - 28 - 40	25 - 33 - 46	30 - 36 - 52	33 - 40 - 56	35 - 43 - 61	38 - 46 - 65	40 - 49 - 69
	Vertical	8	16	24	29	32	35	38	41	43
8 Slot	Airflow, cfm/ft.	42	83	125	166	208	250	291	333	374
	Static Pressure	0.006	0.023	0.051	0.090	0.141	0.203	0.277	0.361	0.458
	NC (Noise Criteria)	-	19	29	36	41	46	49	53	55
	Horizontal	7 - 10 - 20	14 - 20 - 35	20 - 30 - 43	27 - 35 - 49	32 - 39 - 55	35 - 43 - 60	38 - 46 - 65	40 - 49 - 70	43 - 52 - 74
	Vertical	8	17	26	31	35	38	41	43	45

NC corrections for various diffuser lengths.

Length	2	4	6	8	01
Supply	3 -	0	2+	3+	5+
Return	0	3+	5+	6+	8+



Linear Slot > Performance Data

Model: ML-38 ■ 3/4" Slot ■ Supply

1 Slot	Airflow, cfm/ft.	6	12	19	25	31	37	43	50	56
	Static Pressure	0.004	0.016	0.037	0.065	0.102	0.146	0.199	0.260	0.330
	NC (Noise Criteria)	-	-	14	20	26	30	34	37	40
	Horizontal	1 - 2 - 6	3 - 6 - 16	6 - 12 - 20	11 - 16 - 23	13 - 18 - 26	16 - 20 - 28	18 - 22 - 31	19 - 23 - 33	20 - 25 - 35
	Vertical	2	6	10	12	14	15	16	17	18

2 Slot	Airflow, cfm/ft.	12	25	37	50	62	74	87	99	112
	Static Pressure	0.004	0.016	0.037	0.065	0.102	0.146	0.199	0.260	0.330
	NC (Noise Criteria)	-	-	17	23	29	33	37	40	43
	Horizontal	1 - 3 - 11	5 - 11 - 22	11 - 17 - 28	15 - 22 - 33	19 - 26 - 37	22 - 28 - 40	25 - 31 - 43	27 - 33 - 46	28 - 35 - 49
	Vertical	4	9	14	17	19	21	23	24	25

3 Slot	Airflow, cfm/ft.	19	37	56	74	93	112	130	149	167
	Static Pressure	0.004	0.016	0.037	0.065	0.102	0.146	0.199	0.260	0.330
	NC (Noise Criteria)	-	-	18	25	31	35	39	42	45
	Horizontal	2 - 5 - 14	8 - 14 - 27	14 - 20 - 35	18 - 27 - 40	23 - 32 - 45	27 - 35 - 49	31 - 38 - 53	33 - 40 - 57	35 - 43 - 60
	Vertical	6	11	17	21	23	26	28	30	32

4 Slot	Airflow, cfm/ft.	25	50	74	99	124	149	174	198	223
	Static Pressure	0.004	0.016	0.037	0.065	0.102	0.146	0.199	0.260	0.330
	NC (Noise Criteria)	-	-	20	26	32	36	40	43	46
	Horizontal	3 - 6 - 16	11 - 16 - 32	16 - 24 - 40	21 - 32 - 46	26 - 37 - 52	32 - 40 - 57	36 - 43 - 61	38 - 46 - 66	40 - 49 - 70
	Vertical	6	13	19	24	27	30	32	34	36

5 Slot	Airflow, cfm/ft.	31	62	93	124	155	186	217	248	279
	Static Pressure	0.004	0.016	0.037	0.065	0.102	0.146	0.199	0.260	0.330
	NC (Noise Criteria)	-	-	21	27	33	37	41	44	47
	Horizontal	4 - 8 - 18	12 - 18 - 35	18 - 26 - 45	24 - 35 - 52	29 - 41 - 58	35 - 45 - 64	40 - 49 - 69	42 - 52 - 73	45 - 55 - 78
	Vertical	7	14	21	27	30	33	36	38	40

6 Slot	Airflow, cfm/ft.	37	74	112	149	186	223	260	298	335
	Static Pressure	0.004	0.016	0.037	0.065	0.102	0.146	0.199	0.260	0.330
	NC (Noise Criteria)	-	12	21	28	34	38	42	45	48
	Horizontal	5 - 10 - 19	13 - 19 - 39	19 - 29 - 49	26 - 39 - 57	32 - 45 - 64	39 - 49 - 70	43 - 53 - 75	46 - 57 - 81	49 - 60 - 85
	Vertical	8	15	24	30	33	36	39	42	45

7 Slot	Airflow, cfm/ft.	43	87	130	174	217	260	304	347	391
	Static Pressure	0.004	0.016	0.037	0.065	0.102	0.146	0.199	0.260	0.330
	NC (Noise Criteria)	-	12	22	29	34	39	42	45	48
	Horizontal	6 - 10 - 21	14 - 21 - 42	21 - 31 - 53	28 - 42 - 61	35 - 49 - 69	42 - 53 - 75	47 - 58 - 81	50 - 61 - 87	53 - 65 - 92
	Vertical	8	16	24	32	36	39	42	45	48

8 Slot	Airflow, cfm/ft.	50	99	149	198	248	298	347	397	446
	Static Pressure	0.004	0.016	0.037	0.065	0.102	0.146	0.199	0.260	0.330
	NC (Noise Criteria)	-	13	23	29	35	39	43	46	49
	Horizontal	7 - 11 - 22	15 - 22 - 45	22 - 33 - 57	30 - 45 - 66	37 - 52 - 73	45 - 57 - 81	50 - 61 - 87	54 - 66 - 93	57 - 70 - 99
	Vertical	8	16	24	33	38	42	45	48	51

NC corrections for various diffuser lengths.

Length	2	4	6	8	01
Supply	3-	0	2+	3+	5+
Return	0	3+	5+	6+	8+



Linear Slot > Performance Data

Model: ML-39 ■ 1" Slot ■ Supply

1 Slot	Airflow, cfm/ft.	7	13	20	26	33	40	46	53	59
	Static Pressure	0.004	0.014	0.032	0.057	0.089	0.128	0.174	0.228	0.288
	NC (Noise Criteria)	-	-	13	20	26	30	34	37	40
	Horizontal	1 - 2 - 6	3 - 6 - 16	6 - 12 - 21	11 - 16 - 24	14 - 19 - 27	16 - 21 - 29	18 - 22 - 32	20 - 24 - 34	21 - 25 - 36
	Vertical	2	8	12	14	15	17	18	19	20
2 Slot	Airflow, cfm/ft.	13	26	40	53	66	79	92	106	119
	Static Pressure	0.004	0.014	0.032	0.057	0.089	0.128	0.174	0.228	0.288
	NC (Noise Criteria)	-	-	16	23	29	33	37	40	43
	Horizontal	1 - 3 - 12	5 - 12 - 23	12 - 17 - 29	15 - 23 - 34	19 - 27 - 38	23 - 29 - 42	26 - 32 - 45	28 - 34 - 48	29 - 36 - 51
	Vertical	5	11	16	19	22	24	26	28	30
3 Slot	Airflow, cfm/ft.	20	40	59	79	99	119	139	158	178
	Static Pressure	0.004	0.014	0.032	0.057	0.089	0.128	0.174	0.228	0.288
	NC (Noise Criteria)	-	-	18	25	30	35	39	42	45
	Horizontal	2 - 5 - 14	8 - 14 - 28	14 - 21 - 36	19 - 28 - 42	23 - 33 - 46	28 - 36 - 51	32 - 39 - 55	34 - 42 - 59	36 - 44 - 62
	Vertical	7	13	20	24	27	29	32	34	36
4 Slot	Airflow, cfm/ft.	26	53	79	106	132	158	185	211	238
	Static Pressure	0.004	0.014	0.032	0.057	0.089	0.128	0.174	0.228	0.288
	NC (Noise Criteria)	-	-	19	26	32	36	40	43	46
	Horizontal	3 - 6 - 16	11 - 16 - 33	16 - 24 - 42	22 - 33 - 48	27 - 38 - 54	33 - 42 - 59	37 - 45 - 63	39 - 48 - 68	42 - 51 - 72
	Vertical	8	15	23	28	31	34	36	39	42
5 Slot	Airflow, cfm/ft.	33	66	99	132	165	198	231	264	297
	Static Pressure	0.004	0.014	0.032	0.057	0.089	0.128	0.174	0.228	0.288
	NC (Noise Criteria)	-	-	20	27	33	37	41	44	47
	Horizontal	4 - 8 - 18	12 - 18 - 36	18 - 27 - 46	24 - 36 - 54	30 - 42 - 60	36 - 46 - 66	41 - 50 - 71	44 - 54 - 76	46 - 57 - 80
	Vertical	9	17	25	31	34	38	41	43	45
6 Slot	Airflow, cfm/ft.	40	79	119	158	198	238	277	317	356
	Static Pressure	0.004	0.014	0.032	0.057	0.089	0.128	0.174	0.228	0.288
	NC (Noise Criteria)	-	12	21	28	33	38	42	45	48
	Horizontal	5 - 10 - 20	13 - 20 - 40	20 - 30 - 51	27 - 40 - 59	33 - 46 - 66	40 - 51 - 72	45 - 55 - 78	48 - 59 - 83	51 - 62 - 88
	Vertical	9	19	28	34	38	41	45	48	51
7 Slot	Airflow, cfm/ft.	46	92	139	185	231	277	323	370	416
	Static Pressure	0.004	0.014	0.032	0.057	0.089	0.128	0.174	0.228	0.288
	NC (Noise Criteria)	-	12	22	29	34	38	42	45	48
	Horizontal	6 - 11 - 22	14 - 22 - 43	22 - 32 - 55	29 - 43 - 63	36 - 50 - 71	43 - 55 - 78	48 - 59 - 84	52 - 63 - 90	55 - 67 - 95
	Vertical	10	20	30	36	41	45	48	52	55
8 Slot	Airflow, cfm/ft.	53	106	158	211	264	317	370	422	475
	Static Pressure	0.004	0.014	0.032	0.057	0.089	0.128	0.174	0.228	0.288
	NC (Noise Criteria)	-	13	23	29	35	39	43	46	49
	Horizontal	8 - 12 - 23	15 - 23 - 46	23 - 35 - 59	31 - 46 - 68	38 - 54 - 76	46 - 59 - 83	52 - 63 - 90	55 - 68 - 96	59 - 72 - 102
	Vertical	11	22	32	39	43	48	52	55	58

NC corrections for various diffuser lengths.

Length	2	4	6	8	10
Supply	-3	0	+2	+3	+5
Return	0	+3	+5	+6	+8

Throw Correction Multiplier for length

Length	2	4	8	10
Throw Corr.	0.72	1.0	1.5	1.7

- Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991. Actual performance, with flexible duct inlet, may vary in the field. See the engineering section of this catalog, pages B37-B38, for additional information.
- Horizontal throw values are given for terminal velocities of 150, 100, and 50 fpm.
- Throw values are given for isothermal conditions, and are based on 4 ft. active section. For other lengths, see the Throw Correction Table.
- Pressure is given in inches of WG for ML only.
- Vertical throw values are given for terminal velocities of 50 fpm.
- For divided throw, use the cfm-per-foot value for the number of slots in each direction. For sound, use the NC values for cfm-per-foot for the total number of slots.
- Each NC value represents the noise criteria curve which will not be exceeded by the sound pressure in any of the octave bands, 2nd through 7th, with a room absorption of 10 dB, re 10⁻¹² watts.
- For vertical throw, deduct 11 NC.
- Dash (-) in space denotes an NC value of less than 10.
- NC is based on 4 ft. lengths; for other lengths use the NC correction table.
- Throws listed are for the 1-way pattern. For divided airflow, select the airflow in each direction according to the number of slots aimed in that direction, with the total airflow apportioned between slots.
- Data was obtained using plenums with duct velocities less than 800 fpm.