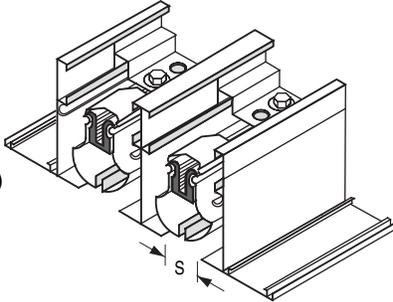




**LINEAR SLOT DIFFUSERS**  
**EXTRUDED ALUMINUM**  
**MODEL SERIES: 5000**  
**FRAME TYPES A, B, C, D**

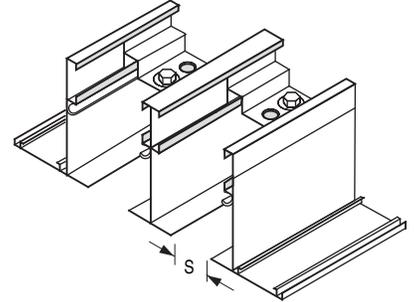
**Supply Model**

- 5050  
(S = 1/2" [13] slot)
- 5075  
(S = 3/4" [19] slot)
- 5010  
(S = 1" [25] slot)
- 5015  
(S = 1 1/2" [38] slot)

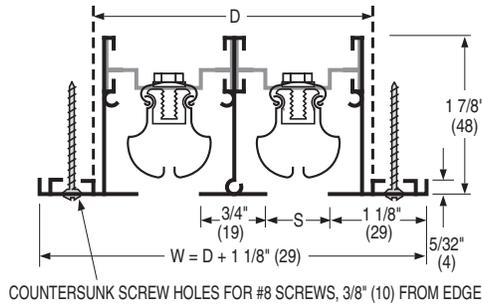


**Return Model**

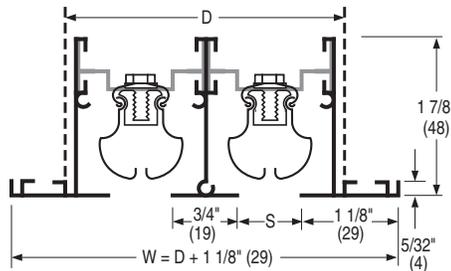
- 5050R  
(S = 1/2" [13] slot)
- 5075R  
(S = 3/4" [19] slot)
- 5010R  
(S = 1" [25] slot)
- 5015R  
(S = 1 1/2" [38] slot)



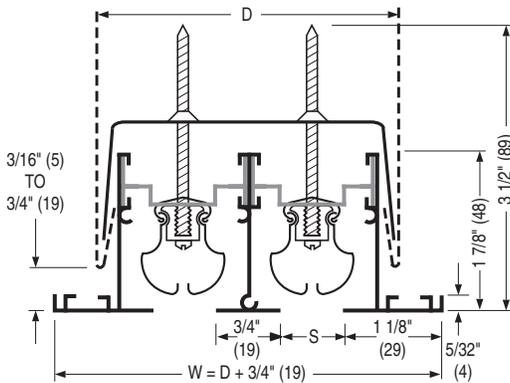
**Type A**  
 Flange Frame / Screw Mounting



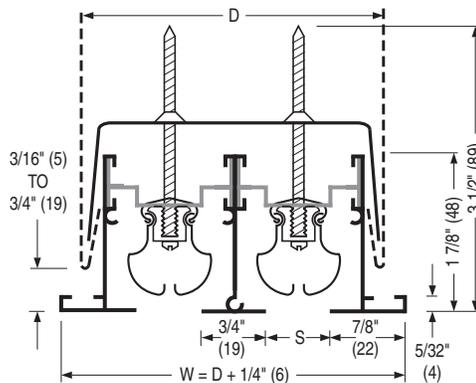
**Type B**  
 Flange Frame / Duct Mounting



**Type C**  
 Flange Frame / Concealed Mounting



**Type D**  
 Flange Frame / Concealed Mounting



**FINISH:**

- AW Appliance White (Standard)
  - BC Brushed and clear coat lacquer
  - SP Special \_\_\_\_\_
- All with black pattern controllers

**NOTES:**

1. Material: Extruded aluminum frame. Corrosion-resistant steel pattern controllers.
2. The volume and direction of the discharge air can be adjusted by moving the pattern controllers.
3. Model 5000R return and the Model 5000 supply diffusers are identical except for the pattern controllers.
4. Greater than 6 foot (1829) lengths are supplied in multiple sections.
5. The maximum length of the pattern controller is 36" (914). Diffusers longer than 36" (914) are provided with multiple pattern controller sections.
6. Alignment strips on the frames and sub-frames provide superior, positive aligning.
7. Available with 1 to 10 slots.
8. Standard lengths of diffuser sections are 1, 2, 3, 4, 5 and 6 ft (305, 610, 914, 1219, 1524 and 1829).

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

11 - 1 - 12

5000

10 - 25 - 07

5000-1A



**LINEAR SLOT DIFFUSERS**  
(IMPERIAL UNITS – INCHES)  
EXTRUDED ALUMINUM  
**MODEL SERIES: 5000**  
**FRAME TYPES A, B, C, D**

Duct Width D Dimension  
S = slot width

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
<b>A</b> <b>B</b>	1	1 5/8"	1 7/8"	2 1/8"	2 5/8"
	2	2 7/8"	3 3/8"	3 7/8"	4 7/8"
	3	4 1/8"	4 7/8"	5 5/8"	7 1/8"
	4	5 3/8"	6 3/8"	7 3/8"	9 3/8"
	5	6 5/8"	7 7/8"	9 1/8"	11 5/8"
	6	7 7/8"	9 3/8"	10 7/8"	13 7/8"
	7	9 1/8"	10 7/8"	12 5/8"	16 1/8"
	8	10 3/8"	12 3/8"	14 3/8"	18 3/8"
	9	11 5/8"	13 7/8"	16 1/8"	20 5/8"
	10	12 7/8"	15 3/8"	17 7/8"	22 7/8"

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
<b>C</b> <b>D</b>	1	2"	2 1/4"	2 1/2"	3"
	2	3 1/4"	3 3/4"	4 1/4"	5 1/4"
	3	4 1/2"	5 1/4"	6"	7 1/2"
	4	5 3/4"	6 3/4"	7 3/4"	9 3/4"
	5	7"	8 1/4"	9 1/2"	12"
	6	8 1/4"	9 3/4"	11 1/4"	14 1/4"
	7	9 1/2"	11 1/4"	13"	16 1/2"
	8	10 3/4"	12 3/4"	14 3/4"	18 3/4"
	9	12"	14 1/4"	16 1/2"	21"
	10	13 1/4"	15 3/4"	18 1/4"	23 1/4"

End Caps Configuration

**SPECIFY**

MM

FF

MO

FO

MC

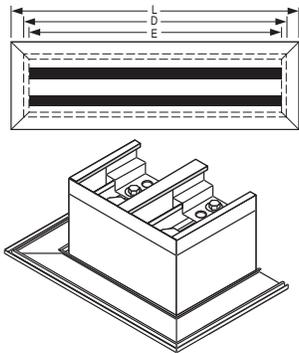
FC

OO

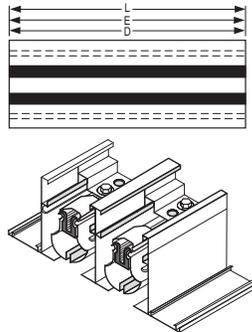
OC

CC

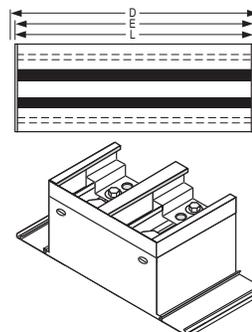
**M - Mitered End Cap (Std.)**



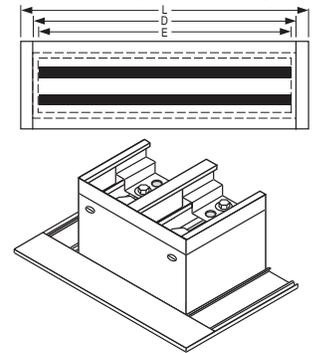
**O - Open End**



**C - Flat End Cap**



**F - Flanged End Cap**



**Overall Length Dimensions and End Cap Position**

Frame Type	M		F		M		O		O		O		C		C	
	E	L	E	L	E	L †	E	L †	E	L	E	L	E	L	E	L
	<b>A, B</b>	D - 1/2	D + 1	D - 1/2	D + 1 1/2	D - 1/4	D + 1/2	D - 3/16	D + 9/16	D	D	D - 1/16	D - 1/16	D - 1/8	D - 1/8	D - 1/8
<b>C</b>	D - 1/2	D + 1	D - 1/2	D + 1 1/2	D - 1/4	D + 1/2	D - 3/16	D + 9/16	D	D	D - 1/16	D - 1/16	D - 1/8	D - 1/8	D - 1/8	D - 1/8
<b>D</b>	D - 1/2	D + 1/2	D - 1/2	D + 1	D - 1/4	D + 1/4	D - 3/16	D + 7/16	D	D	D - 1/16	D - 1/16	D - 1/8	D - 1/8	D - 1/8	D - 1/8

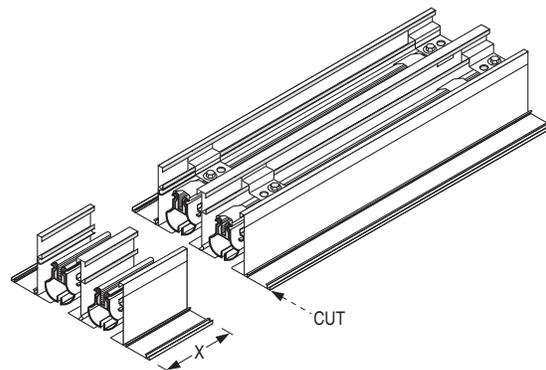
† Configurations FO and FC: Add 1/4.

D = Duct length E = End cap position L = Overall length

**Field Trimming of Diffusers**

If "X" is less than 3" (76) at either end (6" [152] total), standard **Model 5000** or **5000R** can be field-cut.

• Factory-Cut Diffusers **Model 5000** or **5000R** are ordered for a specific length from the factory, but can be trimmed as much as 6" (152) in length, (3" [76] from each end) with a fine tooth, high speed carbon steel metal cutting blade.



**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
11 - 1 - 12	5000	10 - 25 - 07	5000-1B



**LINEAR SLOT DIFFUSERS**  
 (METRIC UNITS – MILLIMETERS)  
 EXTRUDED ALUMINUM  
**MODEL SERIES: 5000**  
**FRAME TYPES A, B, C, D**

Duct Width D Dimension  
S = slot width

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 13	S = 19	S = 25	S = 38
<b>A</b> <b>B</b>	1	41	48	54	67
	2	73	86	98	124
	3	105	124	143	181
	4	137	162	187	238
	5	168	200	232	295
	6	200	238	276	352
	7	232	276	321	410
	8	264	314	365	467
	9	295	352	410	524
	10	327	391	454	581

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 13	S = 19	S = 25	S = 38
<b>C</b> <b>D</b>	1	51	57	64	76
	2	83	95	108	133
	3	114	133	152	191
	4	146	171	197	248
	5	178	210	241	305
	6	210	248	286	362
	7	241	286	330	419
	8	273	324	375	476
	9	305	362	419	533
	10	337	400	464	591

End Caps Configuration

**SPECIFY**

MM

FF

MO

FO

MC

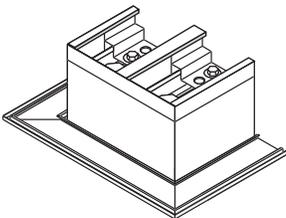
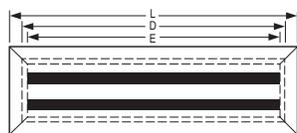
FC

OO

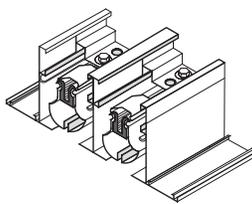
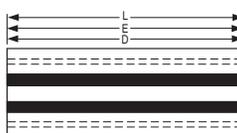
OC

CC

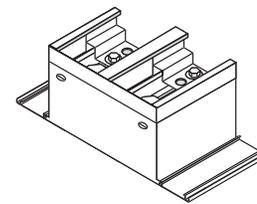
**M - Mitered End Cap (Std.)**



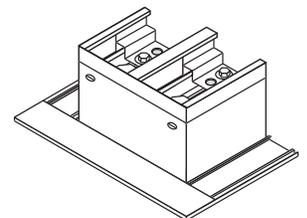
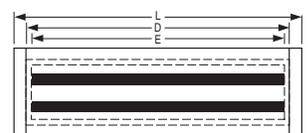
**O - Open End**



**C - Flat End Cap**



**F - Flanged End Cap**



**Overall Length Dimensions and End Cap Position**

Frame Type	M		F		M		O		O		O		C		C	
	E	L	E	L	E	L †	E	L †	E	L	E	L	E	L	E	L
	<b>A, B</b>	D - 13	D + 25	D - 13	D + 38	D - 6	D + 13	D - 5	D + 14	D	D	D - 2	D - 2	D - 3	D - 3	D - 3
<b>C</b>	D - 13	D + 25	D - 13	D + 38	D - 6	D + 13	D - 5	D + 14	D	D	D - 2	D - 2	D - 3	D - 3	D - 3	D - 3
<b>D</b>	D - 13	D + 13	D - 13	D + 25	D - 6	D + 6	D - 5	D + 11	D	D	D - 2	D - 2	D - 3	D - 3	D - 3	D - 3

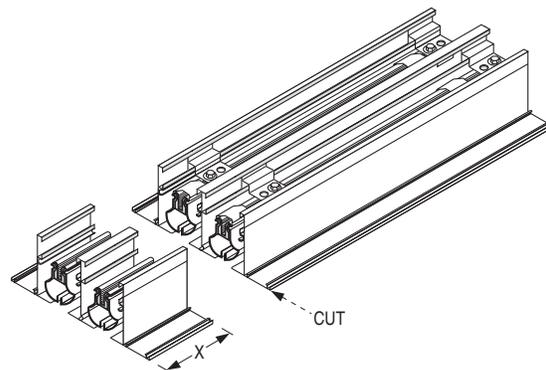
† Configurations FO and FC: Add 6.

D = Duct length E = End cap position L = Overall length

**Field Trimming of Diffusers**

If "X" is less than 3" (76) at either end (6" [152] total), standard **Model 5000** or **5000R** can be field-cut.

• Factory-Cut Diffusers **Model 5000** or **5000R** are ordered for a specific length from the factory, but can be trimmed as much as 6" (152) in length, (3" [76] from each end) with a fine tooth, high speed carbon steel metal cutting blade.



**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

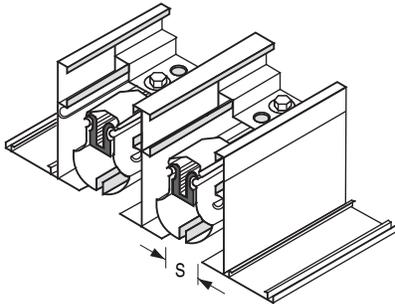
DATE	B SERIES	SUPERSEDES	DRAWING NO.
11 - 1 - 12	5000	10 - 25 - 07	5000-1C



**LINEAR SLOT DIFFUSERS**  
**EXTRUDED ALUMINUM**  
**MODEL SERIES: 5000**  
**FRAME TYPES E, F, G, H, H2**

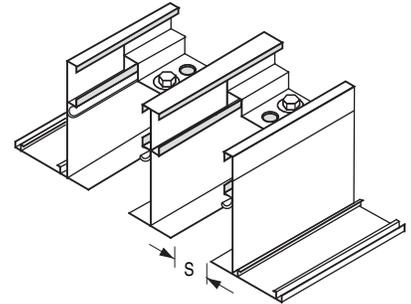
**Supply Model**

- 5050  
(S = 1/2" [13] slot)
- 5075  
(S = 3/4" [19] slot)
- 5010  
(S = 1" [25] slot)
- 5015  
(S = 1 1/2" [38] slot)

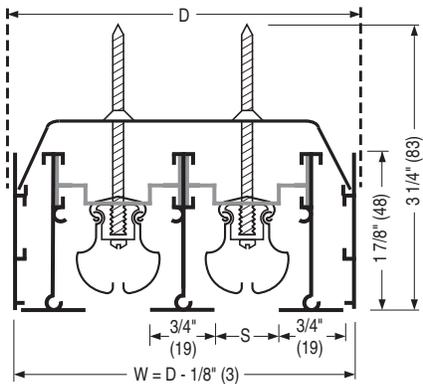


**Return Model**

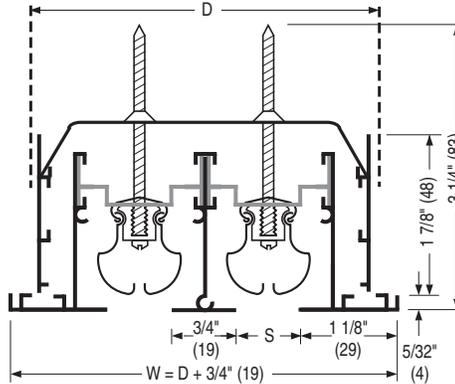
- 5050R  
(S = 1/2" [13] slot)
- 5075R  
(S = 3/4" [19] slot)
- 5010R  
(S = 1" [25] slot)
- 5015R  
(S = 1 1/2" [38] slot)



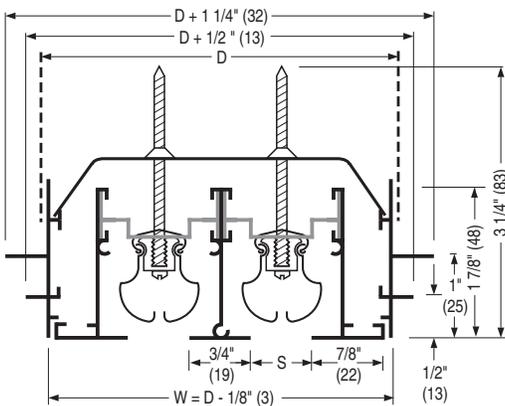
- Type E**  
Flush Frame & Sub-Frame / Concealed Mounting



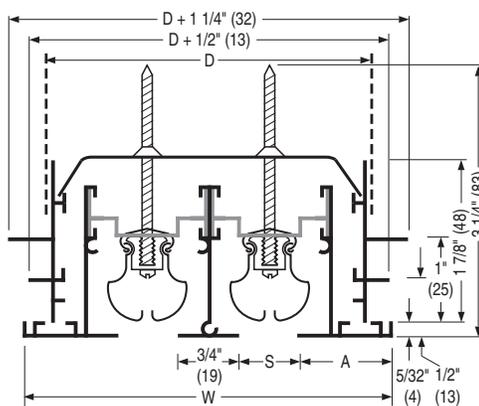
- Type F**  
Flange Frame & Sub-Frame / Concealed Mounting



- Type G**  
Flush Frame with Plaster and Tile Sub-Frame / Concealed Mounting



- Type H, H2**  
Flange Frame with Plaster and Tile Sub-Frame / Concealed Mounting



Type	A	W
H	1 1/8" (29)	D + 3/4" (19)
H2	7/8" (22)	D + 1/4" (6)

**FINISH:**

- AW Appliance White (Standard)
  - BC Brushed and clear coat lacquer
  - SP Special \_\_\_\_\_
- All with black pattern controllers

**NOTES:**

1. Material: Extruded aluminum frame. Corrosion-resistant steel pattern controllers.
2. The volume and direction of the discharge air can be adjusted by moving the pattern controller.
3. Model 5000R return and the Model 5000 supply diffusers are identical except for the pattern controllers.
4. Greater than 6 foot (1829) lengths are supplied in multiple sections.
5. The maximum length of the pattern controller is 36" (914). Diffusers longer than 36" (914) are provided with multiple pattern controller sections.
6. Alignment strips on the frames and sub-frames provide superior, positive aligning.
7. Available with 1 to 10 slots.
8. Standard lengths of diffuser sections are 1, 2, 3, 4, 5 and 6 ft (305, 610, 914, 1219, 1524 and 1829).

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

**DATE**

**B SERIES**

**SUPERSEDES**

**DRAWING NO.**

11 - 1 - 16

5000

11 - 1 - 12

5000-2A



**LINEAR SLOT DIFFUSERS**  
(IMPERIAL UNITS – INCHES)  
EXTRUDED ALUMINUM  
**MODEL SERIES: 5000**  
**FRAME TYPES E, F, G, H, H2**

Duct Width D Dimension

S = slot width

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
E	1	2 1/4"	2 1/2"	2 3/4"	3 1/4"
	2	3 1/2"	4"	4 1/2"	5 1/2"
	3	4 3/4"	5 1/2"	6 1/4"	7 3/4"
	4	6"	7"	8"	10"
	5	7 1/4"	8 1/2"	9 3/4"	12 1/4"
	6	8 1/2"	10"	11 1/2"	14 1/2"
	7	9 3/4"	11 1/2"	13 1/4"	16 3/4"
	8	11"	13"	15"	19"
	9	12 1/4"	14 1/2"	16 3/4"	21 1/4"
	10	13 1/2"	16"	18 1/2"	23 1/2"

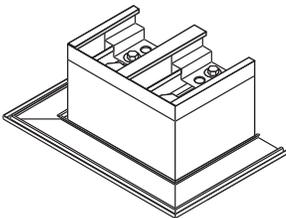
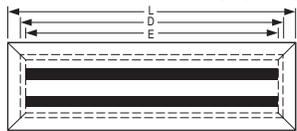
Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
F, H, H2	1	2"	2 1/4"	2 1/2"	3"
	2	3 1/4"	3 3/4"	4 1/4"	5 1/4"
	3	4 1/2"	5 1/4"	6"	7 1/2"
	4	5 3/4"	6 3/4"	7 3/4"	9 3/4"
	5	7"	8 1/4"	9 1/2"	12"
	6	8 1/4"	9 3/4"	11 1/4"	14 1/4"
	7	9 1/2"	11 1/4"	13"	16 1/2"
	8	10 3/4"	12 3/4"	14 3/4"	18 3/4"
	9	12"	14 1/4"	16 1/2"	21"
	10	13 1/4"	15 3/4"	18 1/4"	23 1/4"

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
G	1	2 1/2"	2 3/4"	3"	3 1/2"
	2	3 3/4"	4 1/4"	4 3/4"	5 3/4"
	3	5"	5 3/4"	6 1/2"	8"
	4	6 1/4"	7 1/4"	8 1/4"	10 1/4"
	5	7 1/2"	8 3/4"	10"	12 1/2"
	6	8 3/4"	10 1/4"	11 3/4"	14 3/4"
	7	10"	11 3/4"	13 1/2"	17"
	8	11 1/4"	13 1/4"	15 1/4"	19 1/4"
	9	12 1/2"	14 3/4"	17"	21 1/2"
	10	13 3/4"	16 1/4"	18 3/4"	23 3/4"

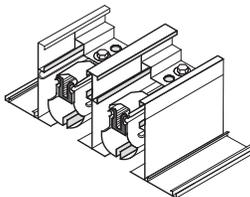
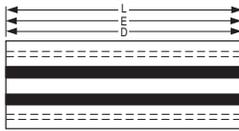
End Caps Configuration

- SPECIFY**
- MM
  - FF
  - MO
  - FO
  - MC
  - FC
  - OO
  - OC
  - CC

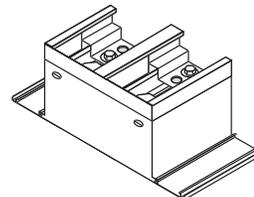
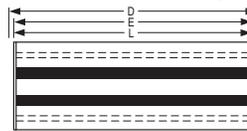
**M - Mitered End Cap (Std.)**



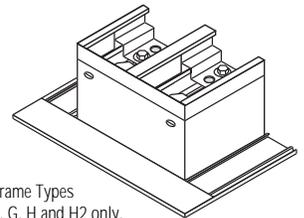
**O - Open End**



**C - Flat End Cap**



**F - Flanged End Cap**



Frame Types F, G, H and H2 only.

**Overall Length Dimensions and End Cap Position**

Frame Type	M		F		M		O		C		O		C	
	E	L	E	L	E	L†	E	L†	E	L	E	L	E	L
	<b>E</b>	D - 7/8	D	N/A	N/A	D - 7/16	D	D - 3/8	D + 1/16	D	D	D - 1/16	D - 1/16	D - 1/8
<b>F, H</b>	D - 3/4	D + 3/4	D - 3/4	D + 1/4	D - 3/8	D + 3/8	D - 5/16	D + 7/16	D	D	D - 1/16	D - 1/16	D - 1/8	D - 1/8
<b>H2</b>	D - 3/4	D + 1/4	D - 3/4	D + 7/8	D - 3/8	D + 1/8	D - 5/16	D + 5/16	D	D	D - 1/16	D - 1/16	D - 1/8	D - 1/8
<b>G</b>	D - 1 1/8	D	D - 1 3/8	D	D - 9/16	D	D - 1/2	D + 1/16	D	D	D - 1/16	D - 1/16	D - 1/8	D - 1/8

† Configurations FO and FC: Add 1/4 for frame types F, G, H and H2.

D = Duct length E = End cap position L = Overall length

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches.

DATE

B SERIES

SUPERSEDES

DRAWING NO.

11 - 1 - 12

5000

6 - 10 - 11

5000-2B



**LINEAR SLOT DIFFUSERS**  
 (METRIC UNITS – MILLIMETERS)  
 EXTRUDED ALUMINUM  
**MODEL SERIES: 5000**  
**FRAME TYPES E, F, G, H, H2**

**Duct Width D Dimension**

S = slot width

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R S = 13	5075R S = 19	5010R S = 25	5015R S = 38
E	1	57	64	70	83
	2	89	102	114	140
	3	121	140	159	197
	4	152	178	203	254
	5	184	216	248	311
	6	216	254	292	368
	7	248	292	337	425
	8	279	330	381	483
	9	311	368	425	540
	10	343	406	470	597

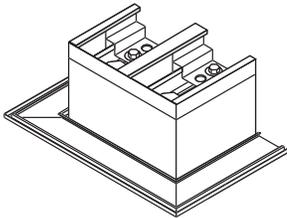
Frame Type	No. of Slots	5050	5075	5010	5015
		5050R S = 13	5075R S = 19	5010R S = 25	5015R S = 38
F, H, H2	1	51	57	64	76
	2	83	95	108	133
	3	114	133	152	191
	4	146	171	197	248
	5	178	210	241	305
	6	210	248	286	362
	7	241	286	330	419
	8	273	324	375	476
	9	305	362	419	533
	10	337	400	464	591

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R S = 13	5075R S = 19	5010R S = 25	5015R S = 38
G	1	64	70	76	89
	2	95	108	121	146
	3	127	146	165	203
	4	159	184	210	260
	5	191	222	254	318
	6	222	260	298	375
	7	254	298	343	432
	8	286	337	387	489
	9	318	375	432	546
	10	349	413	476	603

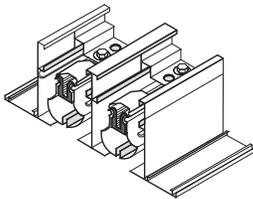
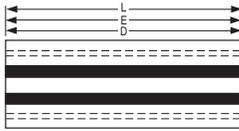
**End Caps Configuration**

- SPECIFY**
- MM
  - FF
  - MO
  - FO
  - MC
  - FC
  - OO
  - OC
  - CC

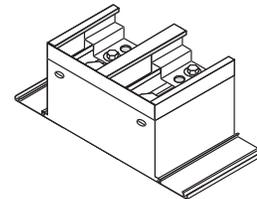
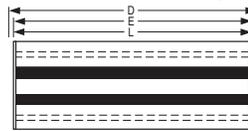
**M - Mitered End Cap (Std.)**



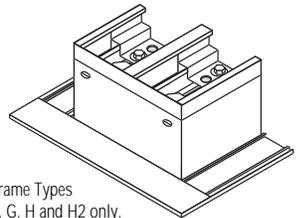
**O - Open End**



**C - Flat End Cap**



**F - Flanged End Cap**



Frame Types F, G, H and H2 only.

**Overall Length Dimensions and End Cap Position**

Frame Type	M		F		M		O		O		O		C		C	
	E	L	E	L	E	L †	E	L †	E	L	E	L	E	L	E	L
	E	D - 22	D	N/A	N/A	D - 11	D	D - 10	D + 2	D	D	D - 2	D - 2	D - 3	D - 3	
F, H	D - 19	D + 19	D - 19	D + 32	D - 10	D + 10	D - 8	D + 11	D	D	D - 2	D - 2	D - 3	D - 3		
H2	D - 19	D + 6	D - 19	D + 22	D - 10	D + 3	D - 8	D + 8	D	D	D - 2	D - 2	D - 3	D - 3		
G	D - 29	D	D - 35	D	D - 14	D	D - 13	D + 2	D	D	D - 2	D - 2	D - 3	D - 3		

† Configurations FO and FC: Add 6 mm for frame types F, G, H and H2.

D = Duct length E = End cap position L = Overall length

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in mm.

DATE

B SERIES

SUPERSEDES

DRAWING NO.

11 - 1 - 12

5000

6 - 10 - 11

5000-2C



# LINEAR SLOT DIFFUSERS

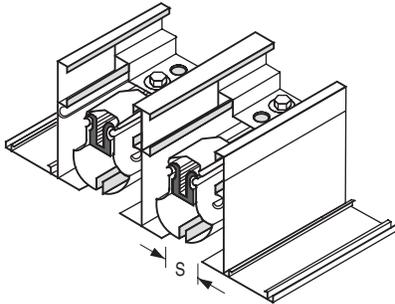
## EXTRUDED ALUMINUM

### MODEL SERIES: 5000

### FRAME TYPES J, KA, K1, K2, M, N

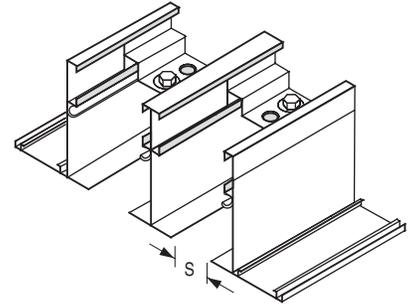
#### Supply Model

- 5050  
(S = 1/2" [13] slot)
- 5075  
(S = 3/4" [19] slot)
- 5010  
(S = 1" [25] slot)
- 5015  
(S = 1 1/2" [38] slot)



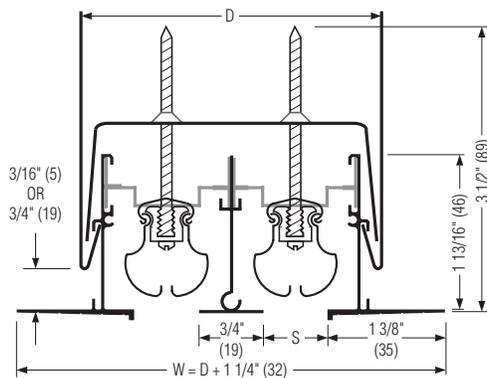
#### Return Model

- 5050R  
(S = 1/2" [13] slot)
- 5075R  
(S = 3/4" [19] slot)
- 5010R  
(S = 1" [25] slot)
- 5015R  
(S = 1 1/2" [38] slot)



#### Type J

Tape & Spackle Frame /  
Concealed Mounting

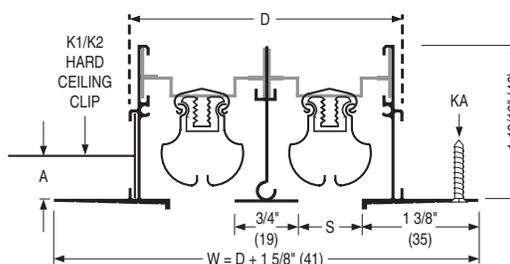


#### Type KA

Tape & Spackle Frame /  
Countersunk screw holes (both sides)

#### Types K1, K2

Tape & Spackle Frame /  
Hard Ceiling Clip for 1/2" (13)  
or 5/8" (16) drywall (both sides)



Type	A	Hard Clip
K1	1/2" (13)	HC5
K2	5/8" (16)	HC1

#### FINISH:

Type J, KA, K1 and K2:

- MI Mill outer frame with Appliance White center tees (standard)
- SP Special \_\_\_\_\_

All with black pattern controllers

Type M and N:

- AW Appliance White (standard)
- SP Special \_\_\_\_\_

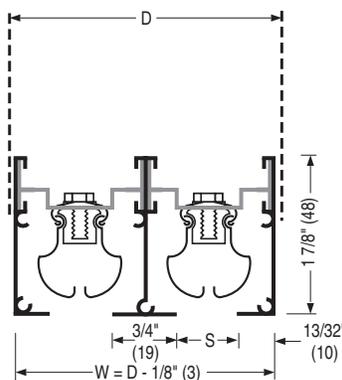
All with black pattern controllers

#### NOTES:

1. Material: Extruded aluminum frame. Corrosion-resistant steel pattern controllers.
2. The volume and direction of the discharge air can be adjusted by moving the pattern controllers.
3. Model 5000R return and the Model 5000 supply diffusers are identical except for the pattern controllers.
4. Greater than 6 foot (1829) lengths are supplied in multiple sections.
5. The maximum length of the pattern controller is 36" (914). Diffusers longer than 36" (914) are provided with multiple pattern controller sections.
6. Alignment strips on the frames and sub-frames provide superior, positive aligning.
7. Available with 1 to 10 slots.
8. Standard lengths of diffuser sections are 1, 2, 3, 4, 5 and 6 ft (305, 610, 914, 1219, 1524 and 1829).

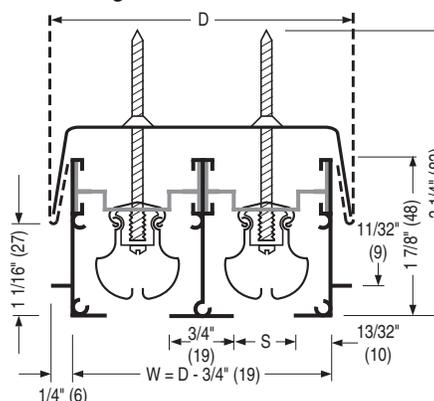
#### Type M

Flush Frame / Duct Mounting



#### Type N

Spline Frame Ceiling / Concealed Mounting



SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

11 - 6 - 18

5000

9 - 6 - 17

5000-3A



**LINEAR SLOT DIFFUSERS**  
 (IMPERIAL UNITS – INCHES)  
 EXTRUDED ALUMINUM  
**MODEL SERIES: 5000**  
**FRAME TYPES J, KA, K1, K2, M, N**

Duct Width D Dimension

S = slot width

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
<b>J, N</b>	1	2"	2 1/4"	2 1/2"	3"
	2	3 1/4"	3 3/4"	4 1/4"	5 1/4"
	3	4 1/2"	5 1/4"	6"	7 1/2"
	4	5 3/4"	6 3/4"	7 3/4"	9 3/4"
	5	7"	8 1/4"	9 1/2"	12"
	6	8 1/4"	9 3/4"	11 1/4"	14 1/4"
	7	9 1/2"	11 1/4"	13"	16 1/2"
	8	10 3/4"	12 3/4"	14 3/4"	18 3/4"
	9	12"	14 1/4"	16 1/2"	21"
	10	13 1/4"	15 3/4"	18 1/4"	23 1/4"

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
<b>KA, K1, K2</b>	1	1 5/8"	1 7/8"	2 1/8"	2 5/8"
	2	2 7/8"	3 3/8"	3 7/8"	4 7/8"
	3	4 1/8"	4 7/8"	5 5/8"	7 1/8"
	4	5 3/8"	6 3/8"	7 3/8"	9 3/8"
	5	6 5/8"	7 7/8"	9 1/8"	11 5/8"
	6	7 7/8"	9 3/8"	10 7/8"	13 7/8"
	7	9 1/8"	10 7/8"	12 5/8"	16 1/8"
	8	10 3/8"	12 3/8"	14 3/8"	18 3/8"
	9	11 5/8"	13 7/8"	16 1/8"	20 5/8"
	10	12 7/8"	15 3/8"	17 7/8"	22 7/8"

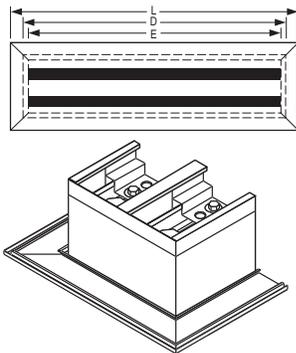
Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
<b>M</b>	1	1 3/8"	1 5/8"	1 7/8"	2 3/8"
	2	2 5/8"	3 1/8"	3 5/8"	4 5/8"
	3	3 7/8"	4 5/8"	5 3/8"	6 7/8"
	4	5 1/8"	6 1/8"	7 1/8"	9 1/8"
	5	6 3/8"	7 5/8"	8 7/8"	11 3/8"
	6	7 5/8"	9 1/8"	10 5/8"	13 5/8"
	7	8 7/8"	10 5/8"	12 3/8"	15 7/8"
	8	10 1/8"	12 1/8"	14 1/8"	18 1/8"
	9	11 3/8"	13 5/8"	15 7/8"	20 3/8"
	10	12 5/8"	15 1/8"	17 5/8"	22 5/8"

End Caps Configuration

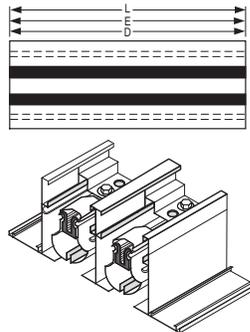
SPECIFY

- MM
- MO
- FO
- MC
- FC
- OO
- OC
- CC

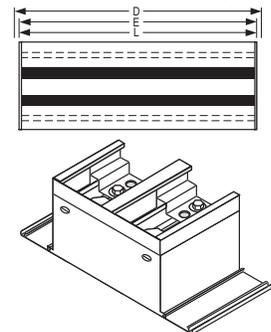
**M - Mitered End Cap (Std.)**



**O - Open End**



**C - Flat End Cap**



**Overall Length Dimensions & End Cap Position**

D = Duct length  
 E = End cap position  
 L = Overall length

Frame Type	M		M		O		C		C		C	
	E	L	E	L	E	L	E	L	E	L	E	L
<b>J</b>	D - 3/4"	D + 3/4"	D - 3/8"	D + 3/8"	D - 1/16"	D - 1/16"	D	D	D - 1/16"	D - 1/16"	D - 1/8"	D - 1/8"
<b>KA, K1, K2</b>	D - 1/2"	D + 1"	D - 1/4"	D + 1/2"	D - 1/16"	D - 1/16"	D	D	D - 1/16"	D - 1/16"	D - 1/8"	D - 1/8"
<b>M*, N*</b>	D - 1/16"	D - 1/16"	D - 1/32"	D - 1/32"	D - 1/16"	D - 1/16"	D	D	D - 1/16"	D - 1/16"	D - 1/8"	D - 1/8"

\* These types have a flangeless mitered end cap which is the same extrusion profile as the frame.

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches.

**DATE**

**B SERIES**

**SUPERSEDES**

**DRAWING NO.**

9 - 6 - 17

5000

8 - 26 - 14

5000-3B



**LINEAR SLOT DIFFUSERS**  
 (METRIC UNITS – MILLIMETERS)  
 EXTRUDED ALUMINUM  
**MODEL SERIES: 5000**  
**FRAME TYPES J, KA, K1, K2, M, N**

**Duct Width D Dimension**

S = slot width

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R S = 13	5075R S = 19	5010R S = 25	5015R S = 38
J, N	1	51	57	64	76
	2	83	95	108	133
	3	114	133	152	191
	4	146	171	197	248
	5	178	210	241	305
	6	210	248	286	362
	7	241	286	330	419
	8	273	324	375	476
	9	305	362	419	533
	10	337	400	464	591

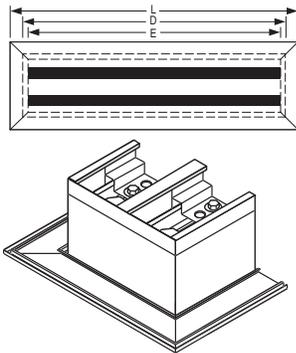
Frame Type	No. of Slots	5050	5075	5010	5015
		5050R S = 13	5075R S = 19	5010R S = 25	5015R S = 38
KA, K1, K2	1	41	48	54	67
	2	73	86	98	124
	3	105	124	143	181
	4	137	162	187	238
	5	168	200	232	295
	6	200	238	276	352
	7	232	276	321	410
	8	264	314	365	467
	9	295	352	410	524
	10	327	391	454	581

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R S = 13	5075R S = 19	5010R S = 25	5015R S = 38
M	1	35	41	48	60
	2	67	79	92	117
	3	98	117	137	175
	4	130	156	181	232
	5	162	194	225	289
	6	194	232	270	346
	7	225	270	314	403
	8	257	308	359	460
	9	289	346	403	518
	10	321	384	448	575

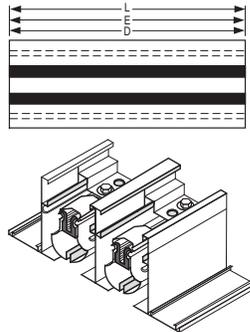
**End Caps Configuration**

- SPECIFY**
- MM
  - MO
  - FO
  - MC
  - FC
  - OO
  - OC
  - CC

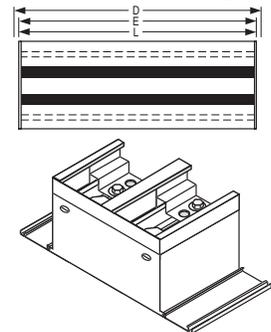
**M - Mitered End Cap (Std.)**



**O - Open End**



**C - Flat End Cap**



**Overall Length Dimensions & End Cap Position**

D = Duct length  
 E = End cap position  
 L = Overall length

Frame Type	M		M		O		C		C		C	
	E	L	E	L	E	L	E	L	E	L	E	L
J	D - 19	D + 19	D - 10	D + 10	D - 2	D - 2	D	D	D - 2	D - 2	D - 3	D - 3
KA, K1, K2	D - 13	D + 25	D - 6	D + 13	D - 2	D - 2	D	D	D - 2	D - 2	D - 3	D - 3
M*, N*	D - 2	D - 2	D - 1	D - 1	D - 2	D - 2	D	D	D - 2	D - 2	D - 3	D - 3

\* These types have a flangeless mitered end cap which is the same extrusion profile as the frame.

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in mm.

**DATE**

**B SERIES**

**SUPERSEDES**

**DRAWING NO.**

9 - 6 - 17

5000

7 - 18 - 16

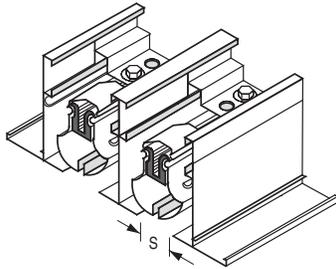
5000-3C



**LINEAR SLOT DIFFUSERS**  
 EXTRUDED ALUMINUM • LAY-IN T-BAR  
 APPLICATION  
**MODEL SERIES: 5000**  
**FRAME TYPE T**

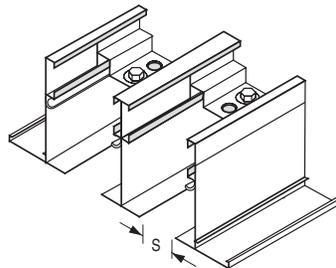
**Supply Model**

- 5050 (S = 1/2" [13] slot)
- 5075 (S = 3/4" [19] slot)
- 5010 (S = 1" [25] slot)
- 5015 (S = 1 1/2" [38] slot)



**Return Model**

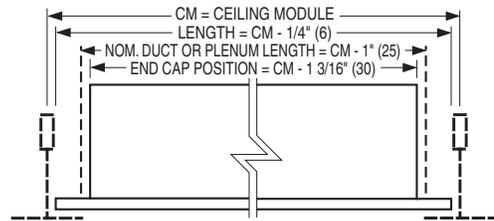
- 5050R (S = 1/2" [13] slot)
- 5075R (S = 3/4" [19] slot)
- 5010R (S = 1" [25] slot)
- 5015R (S = 1 1/2" [38] slot)



**Length and End Cap Configuration**

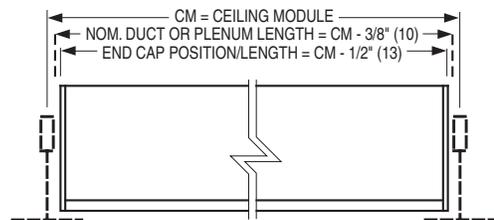
**Type MM**

Mitered End Caps (Standard)



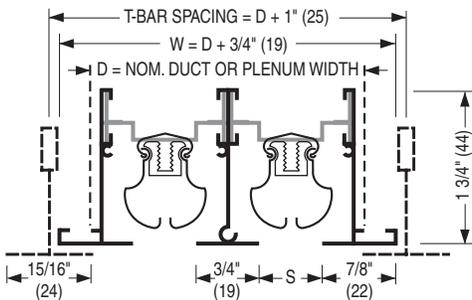
**\*Type CC**

Flat End Caps



**Type T Frame**

- For standard 15/16" (24) or \*9/16" (14) face lay-in T-Bar



**Duct Width D Dimension**

Frame Type	No. of Slots	Imperial Units (inches)				Metric Units (mm)			
		5050	5075	5010	5015	5050	5075	5010	5015
		5050R	5075R	5010R	5015R	5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"	S = 13	S = 19	S = 25	S = 38
T	1	1 1/2"	1 3/4"	2"	2 1/2"	38	44	51	64
	2	2 3/4"	3 1/4"	3 3/4"	4 3/4"	70	83	95	121
	3	4"	4 3/4"	5 1/2"	7"	102	121	140	178
	4	5 1/4"	6 1/4"	7 1/4"	9 1/4"	133	159	184	235
	5	6 1/2"	7 3/4"	9"	11 1/2"	165	197	229	292
	6	7 3/4"	9 1/4"	10 3/4"	13 3/4"	197	235	273	349
	7	9"	10 3/4"	12 1/2"	16"	229	273	318	406
	8	10 1/4"	12 1/4"	14 1/4"	18 1/4"	260	311	362	464
	9	11 1/2"	13 3/4"	16"	20 1/2"	292	349	406	521
	10	12 3/4"	15 1/4"	17 3/4"	22 3/4"	324	387	451	578

**NOTES:**

1. Material: Extruded aluminum frame. Corrosion-resistant steel pattern controllers.
2. The volume and direction of the discharge air can be adjusted by moving the pattern controllers.
3. Model 5000R return and the Model 5000 supply diffusers are identical except for the pattern controllers.
4. Greater than 6 foot (1829) lengths are supplied in multiple sections.
5. The maximum length of the pattern controller is 36" (914). Diffusers longer than 36" (914) are provided with multiple pattern controller sections.
6. Alignment strips on multiple section lengths provide superior, positive alignment.
7. \*Type CC Flat Endcaps are not recommended for use with 9/16" (14) flat face T-bar.
8. Available in 1 to 10 slots.
9. Standard finish is AW Appliance White. Black pattern controllers.

**OPTIONS:**

Available in nominal lengths to suit both imperial and metric ceiling modules (CM) 20", 24", 48" and 60" (500, 600, 1200 and 1500) and in multiple section assemblies for continuous paired T-Bar ceilings.

Specify CM/Nom. length: \_\_\_\_\_.

**FACTORY SUPPLIED PLENUM**

- 5350  5350I Insulated 1/2" (13) slot
- 5375  5375I Insulated 3/4" (19) slot
- 5310  5310I Insulated 1" (25) slot
- 5315  5315I Insulated 1 1/2" (38) slot

See separate submittal for full specification and dimensional data.

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

11 - 1 - 12

5000

6 - 10 - 11

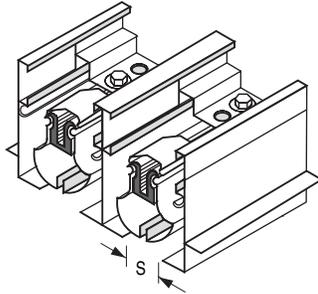
5000-4A



**LINEAR SLOT DIFFUSERS**  
**EXTRUDED ALUMINUM**  
**FINELINE® TYPE CEILING APPLICATIONS**  
**MODEL SERIES: 5000**  
**FRAME TYPE FL**

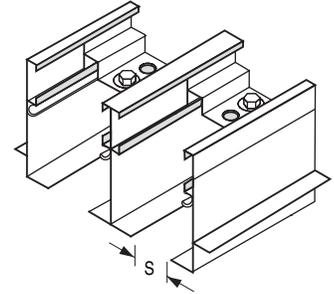
**Supply Model**

- 5050  
(S = 1/2" [13] slot)
- 5075  
(S = 3/4" [19] slot)
- 5010  
(S = 1" [25] slot)
- 5015  
(S = 1 1/2" [38] slot)



**Return Model**

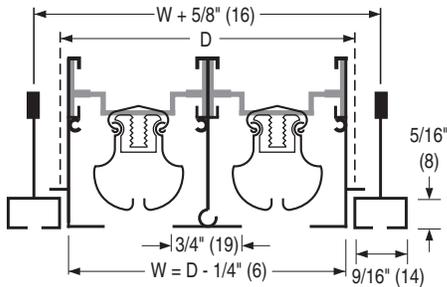
- 5050R  
(S = 1/2" [13] slot)
- 5075R  
(S = 3/4" [19] slot)
- 5010R  
(S = 1" [25] slot)
- 5015R  
(S = 1 1/2" [38] slot)



**Width**

**Type FL Frame**

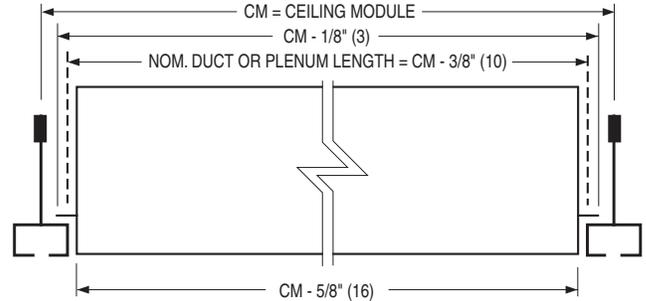
For Fineline® type ceilings



**Length and End Cap Configuration**

**Type MM**

Mitered End Cap (Standard)



**Duct Width D Dimension**

Frame Type	No. of Slots	Imperial Units (inches)				Metric Units (mm)			
		5050	5075	5010	5015	5050	5075	5010	5015
		5050R	5075R	5010R	5015R	5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"	S = 13	S = 19	S = 25	S = 38
FL	1	1 1/2"	1 3/4"	2"	2 1/2"	38	44	51	64
	2	2 3/4"	3 1/4"	3 3/4"	4 3/4"	70	83	95	121
	3	4"	4 3/4"	5 1/2"	7"	102	121	140	178
	4	5 1/4"	6 1/4"	7 1/4"	9 1/4"	133	159	184	235
	5	6 1/2"	7 3/4"	9"	11 1/2"	165	197	229	292
	6	7 3/4"	9 1/4"	10 3/4"	13 3/4"	197	235	273	349
	7	9"	10 3/4"	12 1/2"	16"	229	273	318	406
	8	10 1/4"	12 1/4"	14 1/4"	18 1/4"	260	311	362	464
	9	11 1/2"	13 3/4"	16"	20 1/2"	292	349	406	521
	10	12 3/4"	15 1/4"	17 3/4"	22 3/4"	324	387	451	578

**NOTES:**

- Material: Extruded aluminum frame. Corrosion-resistant steel pattern controllers.
- The volume and direction of the discharge air can be adjusted by moving the pattern controllers.
- Model 5000R return and the Model 5000 supply diffusers are identical except for the pattern controllers.
- The maximum length of the pattern controller is 36" (914). Diffusers longer than 36" (914) are provided with multiple pattern controller sections.
- Standard finish is AW Appliance White. Black pattern controllers.

**OPTIONS:**

Available in nominal lengths to suit both imperial and metric ceiling modules (CM) 24" and 48" (600 and 1200).

Note: Nominal 48" (1200) does not include a cross notch.

Specify CM/Nom. length: \_\_\_\_\_.

**FACTORY SUPPLIED PLENUM**

- 5350     5350I Insulated 1/2" (13) slot
- 5375     5375I Insulated 3/4" (19) slot
- 5310     5310I Insulated 1" (25) slot
- 5315     5315I Insulated 1 1/2" (38) slot

See separate submittal for full specification and dimensional data. Fineline® is a registered trademark of USG Interiors Inc.

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

**DATE**

**B SERIES**

**SUPERSEDES**

**DRAWING NO.**

11 - 1 - 12R

5000

6 - 10 - 11

5000-4B

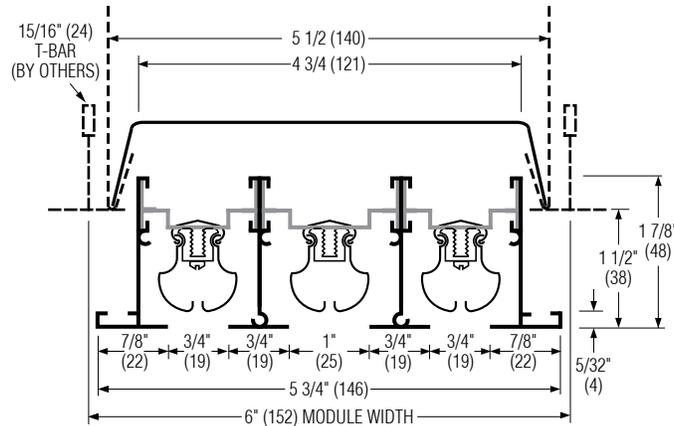


## LINEAR SLOT DIFFUSERS

EXTRUDED ALUMINUM • FOR ARMSTRONG METALWORKS TORSION SPRING CEILING APPLICATIONS • 6" WIDE MODELS: 5075MT SUPPLY AND 5075MTR RETURN FRAME TYPE MTD - CONCEALED 15/16" (24) FLAT T-BAR

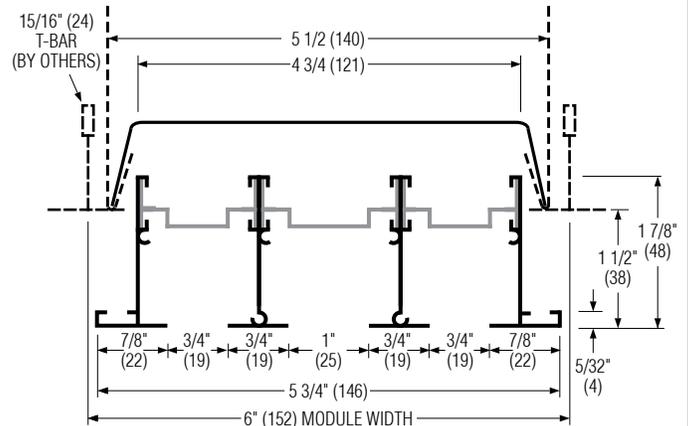
### Supply Model

5075MT

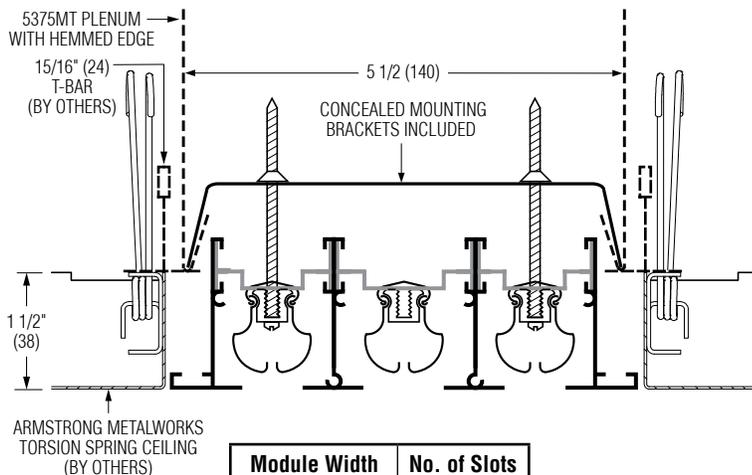


### Return Model

5075MTR

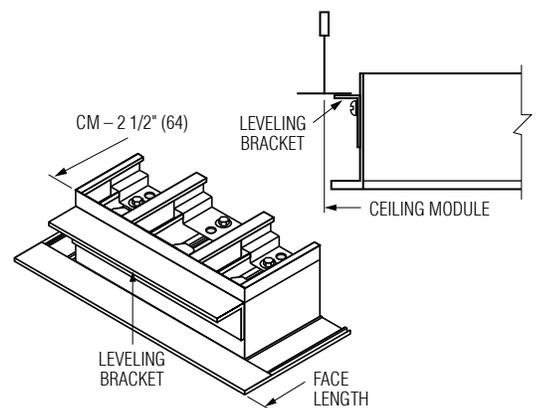


### Mounting:



Module Width	No. of Slots
6" (152)	3

### End Cap Configuration: Type F - Flanged End Cap



End Condition	Face Length
FF	Ceiling Module - 1/4" (6)

### NOTES:

- Compatible with Armstrong Metalworks Torsion Spring Ceiling Systems with 6" (152) module width and 1 1/2" (38) drop panels for 15/16" (24) Flat T-Bar or Echelon grid mounting.
- Material: Extruded aluminum frame. Corrosion-resistant steel pattern controllers.
- 3/4" (19) and 1" (25) combination nominal slot widths with frame type MTD 7/8" (22) border
- Available in 24" (610), 30" (762), 48" (1219), 60" (1524) and 72" (1829) standard module lengths. Ends are finished with Type FF flanged end caps and leveling bracket.
- The volume and direction of the discharge air can be adjusted by moving the pattern controllers.
- 5075MTR is a matching return diffuser and supplied without pattern controllers.
- The maximum length of the pattern controller is 36" (914). Diffusers longer than 36" (914) are provided with multiple pattern controller sections.
- Standard finish is AW Appliance White. Black pattern controllers. Custom colors are available
- For performance data; see Nailor catalog Model 5075.

### OPTIONS: FACTORY SUPPLIED PLENUM

5375MT  5375MTI Insulated

See separate submittal for full specification and dimensional data.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

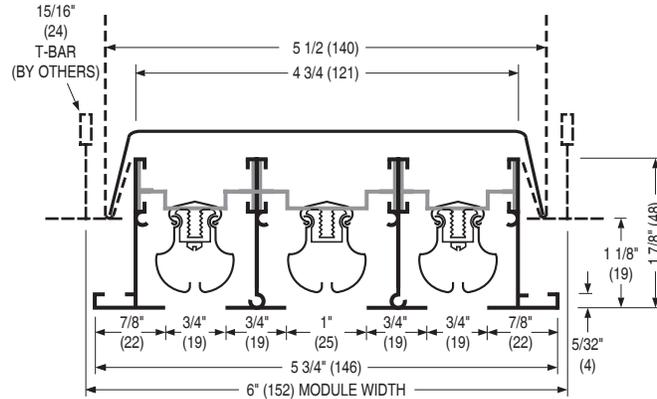
DATE	B SERIES	SUPERSEDES	DRAWING NO.
6 - 14 - 24	5000	NEW	5075MT-1



**LINEAR SLOT DIFFUSERS**  
 EXTRUDED ALUMINUM • FOR CERTAINEED TECHSTYLE CEILING  
 APPLICATIONS • 6" WIDE  
**MODELS: 5075TS SUPPLY AND 5075TSR RETURN**  
**FRAME TYPE TSD - CONCEALED 15/16" (24) FLAT T-BAR**

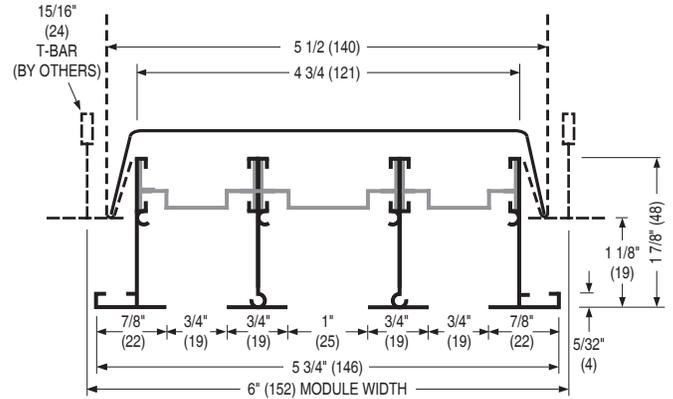
**Supply Model**

5075TS

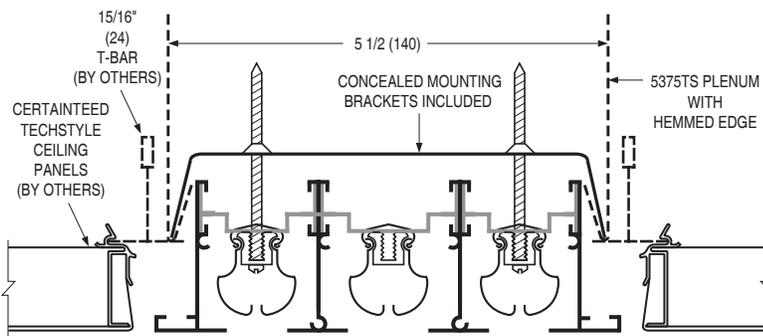


**Return Model**

5075TSR

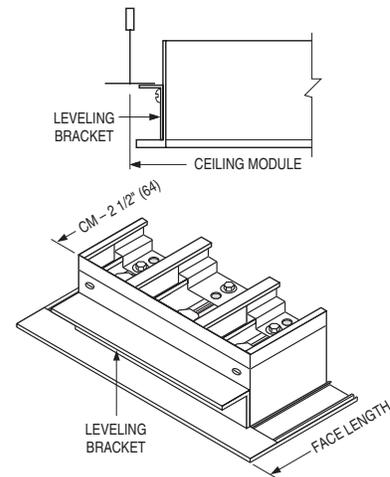


**Mounting:**



Module Width	No. of Slots
6" (152)	3

**End Cap Configuration: Type F - Flanged End Cap**



End Condition	Face Length
FF	Ceiling Module - 1/4" (6)

**NOTES:**

- Compatible with Certainteed Techstyle Ceiling Systems with 6" (152) module width and Swing Down 1 1/8" (29) drop panels for 15/16" (24) Flat T-Bar or Echelon grid mounting.
- Material: Extruded aluminum frame. Corrosion-resistant steel pattern controllers.
- 3/4" (19) and 1" (25) combination nominal slot widths with frame type TSD 7/8" (22) border
- Available in 24" (610), 30" (762), 48" (1219), 60" (1524) and 72" (1829) standard module lengths. Ends are finished with Type FF flanged end caps and leveling bracket.
- The volume and direction of the discharge air can be adjusted by moving the pattern controllers.
- 5075TSR is a matching return diffuser and supplied without pattern controllers.
- The maximum length of the pattern controller is 36" (914). Diffusers longer than 36" (914) are provided with multiple pattern controller sections.
- Standard finish is AW Appliance White. Black pattern controllers. Custom colors are available
- For performance data; see Nailor catalog Model 5075.

**OPTIONS:**  
**FACTORY SUPPLIED PLENUM**

- 5375TS  5375TSI Insulated

See separate submittal for full specification and dimensional data.

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

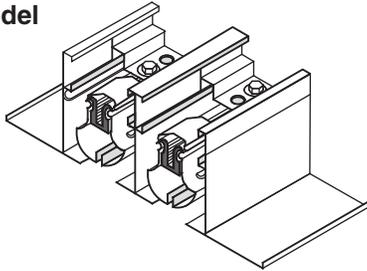
DATE	B SERIES	SUPERSEDES	DRAWING NO.
8 - 7 - 23	5000	NEW	5075TS-1



**LINEAR SLOT DIFFUSERS**  
**EXTRUDED ALUMINUM**  
**FOR TECHZONE™ TYPE CEILING 4" AND 6" WIDE**  
**MODELS: 5075TZ SUPPLY AND 5075TZR RETURN**  
**FRAME TYPE L 15/16" (24) & 9/16" (14) T-BAR LAY-IN**

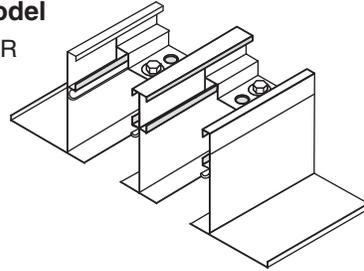
**Supply Model**

5075TZ

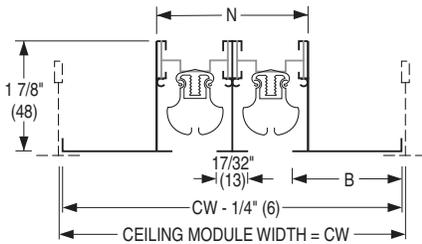


**Return Model**

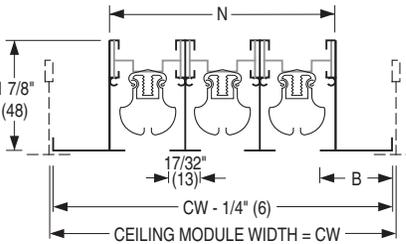
5075TZR



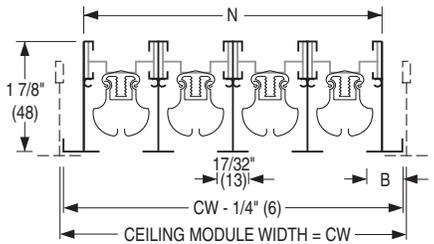
**2 Slot:**



**3 Slot:**

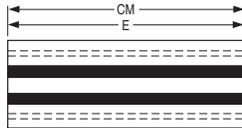


**4 Slot:**

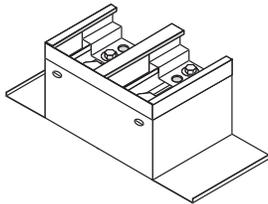
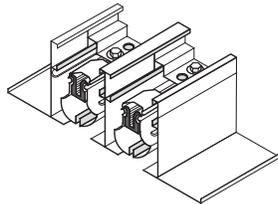
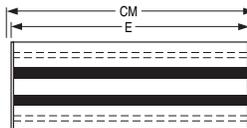


**End Cap Configuration**

**O – Open End**



**C – Flat End Cap**



CM = Ceiling Module E = Overall Length

Ceiling Module Width CW	No. of Slots	Border B	Neck N
4"	1	1 1/2" (38)	1 3/8" (35)
	2	7/8" (22)	2 5/8" (67)
6"	1	2 1/2" (64)	1 3/8" (35)
	2	1 7/8" (48)	2 5/8" (67)
	3	1 1/4" (32)	3 7/8" (98)
	4	5/8" (16)	5 1/8" (130)

End Condition	Face Length E
CC	Ceiling Module – 1/4" (6)
OC	Ceiling Module – 1/8" (3)
OO	Ceiling Module

**NOTES:**

- Compatible with Armstrong® Techzone™ and USG Logix™ ceiling systems.
- Material: Extruded aluminum frame. Corrosion-resistant steel pattern controllers.
- 3/4" (19) nominal slot width. Available in 1, 2, 3 and 4 slots.
- Available in 24" (610), 30" (762), 36" (914), 48" (1219), 60" (1524) and 72" (1829) standard module lengths. Ends are finished with Type CC flat end caps. Also available in multiple section assemblies (over 72" [1829]) with alignment pins for continuous run applications. Linear over 72" (1829) are supplied in equal section lengths.
- The volume and direction of the discharge air can be adjusted by moving the pattern controllers.
- 5075TZR is a matching return diffuser and supplied without pattern controllers.
- The maximum length of the pattern controller is 36" (914). Diffusers longer than 36" (914) are provided with multiple pattern controller sections.
- Standard finish is AW Appliance White. Black pattern controllers.
- For performance data; see Nailor catalog Model 5075.

**OPTIONS:**

**FACTORY SUPPLIED PLENUM**

5375TZ  5375TZI Insulated

See separate submittal for full specification and dimensional data.

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

**DATE**

**B SERIES**

**SUPERSEDES**

**DRAWING NO.**

4 - 1 - 13

5000

6 - 4 - 12

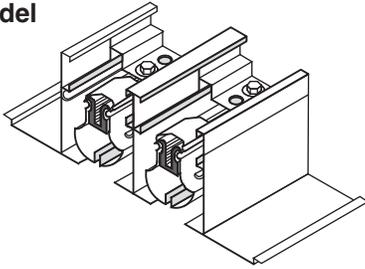
5075TZ-1



**LINEAR SLOT DIFFUSERS**  
 EXTRUDED ALUMINUM  
 FOR TECHZONE™ TYPE CEILINGS 4" AND 6" WIDE  
**MODELS: 5075TZ SUPPLY AND 5075TZR RETURN**  
**FRAME TYPE TL 15/16" (24) T-BAR REGULAR LAY-IN**

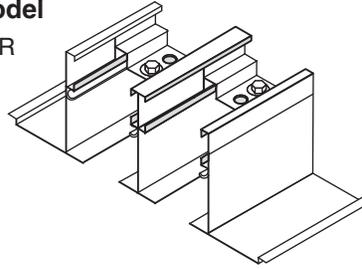
**Supply Model**

5075TZ

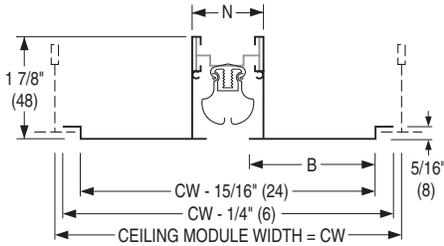


**Return Model**

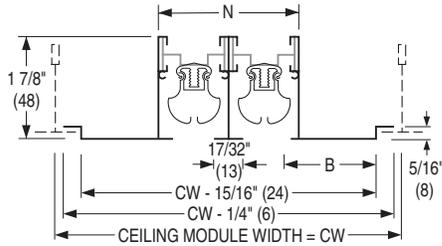
5075TZR



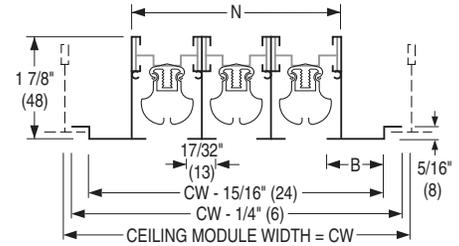
**1 Slot:**



**2 Slot:**



**3 Slot:**

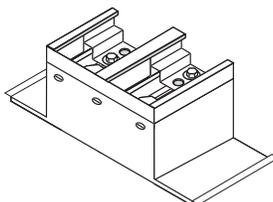
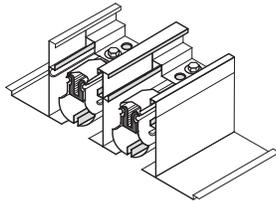


**End Cap Configuration**

**O – Open End**



**C – Flat End Cap**



CM = Ceiling Module E = Overall Length

Ceiling Module Width CW	No. of Slots	Border B	Neck N
4"	1	1 1/8" (29)	1 3/8" (35)
	2	1/2" (13)	2 5/8" (67)
6"	1	2 1/8" (54)	1 3/8" (35)
	2	1 1/2" (38)	2 5/8" (67)
	3	7/8" (22)	3 7/8" (98)

End Condition	Face Length E
CC	Ceiling Module – 1" (25)
OC	Ceiling Module – 1/2" (13)
OO	Ceiling Module

**NOTES:**

- Compatible with Armstrong® Techzone™ and USG Logix™ ceiling systems.
- Material: Extruded aluminum frame. Corrosion-resistant steel pattern controllers.
- 3/4" (19) nominal slot width. Available in 1, 2 and 3 slots.
- Available in 24" (610), 30" (762), 36" (914), 48" (1219), 60" (1524) and 72" (1829) standard module lengths. Ends are finished with Type CC flat end caps. Also available in multiple section assemblies (over 72" [1829]) with alignment pins for continuous run applications. Linear over 72" (1829) are supplied in equal section lengths.
- The volume and direction of the discharge air can be adjusted by moving the pattern controllers.
- 5075TZR is a matching return diffuser and supplied without pattern controllers.
- The maximum length of the pattern controller is 36" (914). Diffusers longer than 36" (914) are provided with multiple pattern controller sections.
- Standard finish is AW Appliance White. Black pattern controllers.
- For performance data; see Nailor catalog Model 5075.

**OPTIONS:**

**FACTORY SUPPLIED PLENUM**

5375TZ  5375TZI Insulated

See separate submittal for full specification and dimensional data.

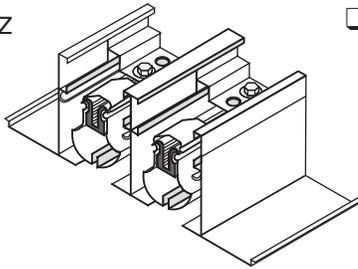
<b>SCHEDULE TYPE:</b>		Dimensions are in inches (mm).			
<b>PROJECT:</b>					
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>	
<b>CONTRACTOR:</b>	3 - 4 - 16	5000	4 - 1 - 13	5075TZ-2	



**LINEAR SLOT DIFFUSERS**  
**EXTRUDED ALUMINUM**  
**FOR TECHZONE™ TYPE CEILING 4" AND 6" WIDE**  
**MODELS: 5075TZ SUPPLY AND 5075TZR RETURN**  
**FRAME TYPE NT 9/16" (14) NARROW T-BAR LAY-IN**

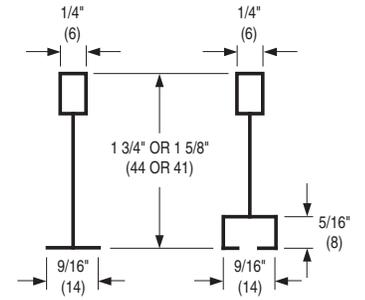
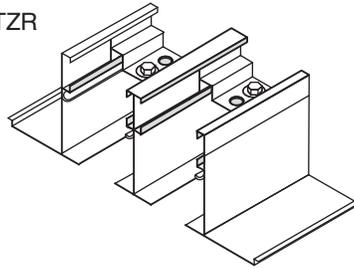
**Supply Model**

5075TZ

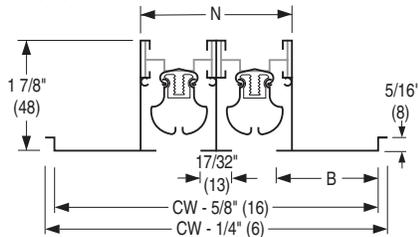


**Return Model**

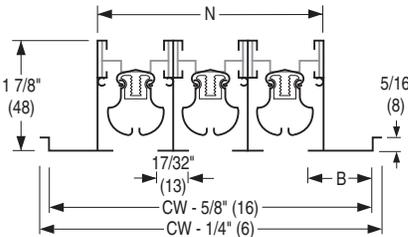
5075TZR



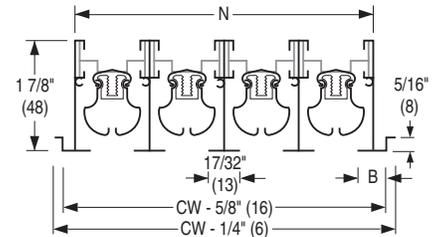
**2 Slot:**



**3 Slot:**

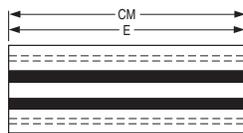


**4 Slot:**

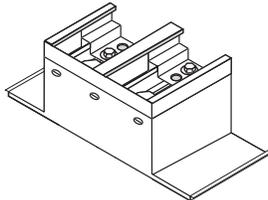
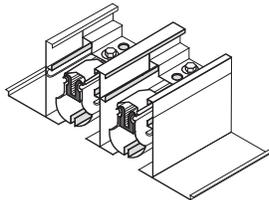


**End Cap Configuration**

**O – Open End**



**C – Flat End Cap**



CM = Ceiling Module E = Overall Length

Ceiling Module Width CW	No. of Slots	Border B	Neck N
4"	1	1 5/16" (33)	1 3/8" (35)
	2	1 1/16" (17)	2 5/8" (67)
6"	1	2 5/16" (59)	1 3/8" (35)
	2	1 11/16" (43)	2 5/8" (67)
	3	1 1/16" (27)	3 7/8" (98)
	4	7/16" (11)	5 1/8" (130)

End Condition	Face Length E
CC	Ceiling Module – 5/8" (16)
OC	Ceiling Module – 5/16" (8)
OO	Ceiling Module

**NOTES:**

- Compatible with Armstrong® Techzone™ and USG Logix™ ceiling systems.
- Material: Extruded aluminum frame. Corrosion-resistant steel pattern controllers.
- 3/4" (19) nominal slot width. Available in 1, 2, 3 and 4 slots.
- Available in 24" (610), 30" (762), 36" (914), 48" (1219), 60" (1524) and 72" (1829) standard module lengths. Ends are finished with Type CC flat end caps. Also available in multiple section assemblies (over 72" [1829]) with alignment pins for continuous run applications. Linear over 72" (1829) are supplied in equal section lengths.
- This model accommodates both 9/16" (14) flat tees to provide a tegular appearance and 9/16 Bolt-Slot (Fineline Type) regressed tees for a flush appearance with a tegular ceiling tile.
- The volume and direction of the discharge air can be adjusted by moving the pattern controllers.

- 5075TZR is a matching return diffuser and supplied without pattern controllers.
- The maximum length of the pattern controller is 36" (914). Diffusers longer than 36" (914) are provided with multiple pattern controller sections.
- Standard finish is AW Appliance White. Black pattern controllers.
- For performance data; see Nailor catalog Model 5075.

**OPTIONS:**

**FACTORY SUPPLIED PLENUM**

- 5375TZ  5375TZI Insulated

See separate submittal for full specification and dimensional data.

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

7 - 18 - 16

5000

4 - 1 - 13

5075TZ-3



**LINEAR SLOT DIFFUSER PLENUMS**  
**ADAPTORS FOR MODEL SERIES 5000**  
**LINEAR SLOT "ICE TONG" DIFFUSER • 1 - 4 SLOT**  
**MODELS: 5350, 5375, 5310 AND 5315(MP)**

**1 THROUGH 4 SLOT**

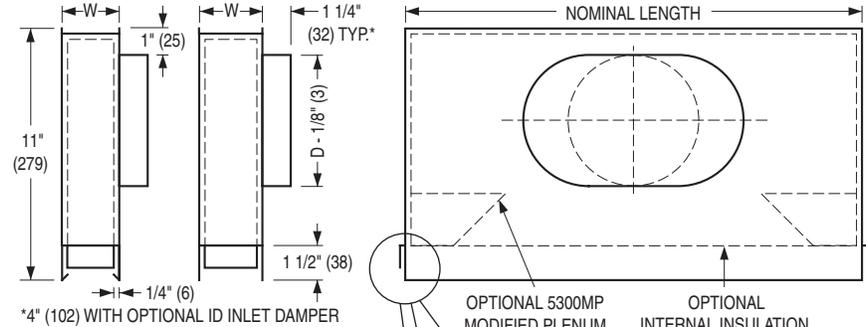
**STANDARD MODELS:**

- 5350** • 1/2" (13) Slot
- 5375** • 3/4" (19) Slot
- 5310** • 1" (25) Slot
- 5315** • 1 1/2" (38) Slot

**MODIFIED PERFORMANCE MODELS:**

- 5350MP** • 1/2" (13) Slot
- 5375MP** • 3/4" (19) Slot
- 5310MP** • 1" (25) Slot
- 5315MP** • 1 1/2" (38) Slot

**Hemmed Leg Frame Types:** C, D, J, N  
**Straight Leg Frame Types:** A, B, E, F, FL, G, H, H2, KA, K1, K2, M, T



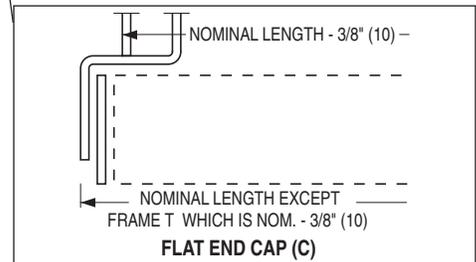
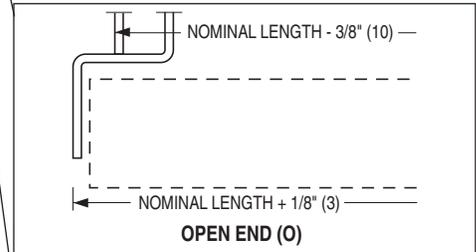
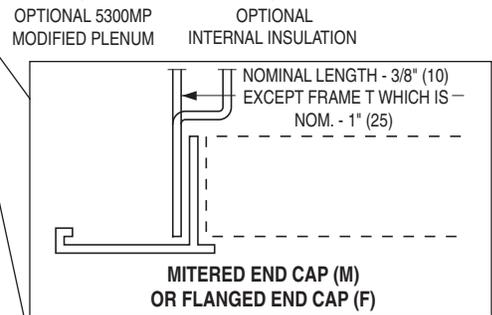
Nominal Length		Standard Nominal Inlets (D)	
inches	mm	inches	mm
20	508		
24	610	4, 5, 6, 8, 10	102, 127, 152, 203, 254
30	762		
36	914		
48	1219	6, 8,	152, 203,
60	1524	10, 12,	254, 305,
72	1829	14	356

Inlets 4" thru' 8" (102 thru 203) are round and 10" thru' 14" (254 thru 356) are flat oval.  
 Equivalent oval: 10" (254) = 11" x 7 7/8" (279 x 200); 12" (305) = 14 1/8" x 7 7/8" (359 x 200);  
 14" (356) = 17 5/16" x 7 7/8" (440 x 200).

Model	No. of Slots	Plenum Width (W) For Various Frame Types							
		Imperial Units (inches)				Metric Units (mm)			
		A, B, FL, KA, K1, K2, M, T	C, D, F, J, H, H2, N	E	G	A, B, FL, KA, K1, K2, M, T	C, D, F, J, H, H2, N	E	G
5350	1	1 1/2	2	2 1/4	2 1/2	38	51	57	64
5375		1 3/4	2 1/4	2 1/2	2 3/4	44	57	64	70
5310		2	2 1/2	2 3/4	3	51	64	70	76
5315		2 1/2	3	3 1/4	3 1/2	64	76	83	89
5350	2	2 3/4	3 1/4	3 1/2	3 3/4	70	83	89	95
5375		3 1/4	3 3/4	4	4 1/4	83	95	102	108
5310		3 3/4	4 1/4	4 1/2	4 3/4	95	108	114	121
5315		4 3/4	5 1/4	5 1/2	5 3/4	121	133	140	146
5350	3	4	4 1/2	4 3/4	5	102	114	121	127
5375		4 3/4	5 1/4	5 1/2	5 3/4	121	133	140	146
5310		5 1/2	6	6 1/4	6 1/2	140	152	159	165
5315		7	7 1/2	7 3/4	8	178	191	197	203
5350	4	5 1/4	5 3/4	6	6 1/4	133	146	152	159
5375		6 1/4	6 3/4	7	7 1/4	159	171	178	184
5310		7 1/4	7 3/4	8	8 1/4	184	197	203	210
5315		9 1/4	9 3/4	10	10 1/4	235	248	254	260

**NOTES:**

- Construction: Corrosion-resistant steel.
- Nailor Series 5300 Plenums are designed specifically for field attachment to the 5000 Series Linear Slot Diffuser. They ensure optimum use of the 5000 Series VAV performance, providing a tight horizontal air pattern even at low volumes. Optional MP models incorporate integral baffles, which provide a reduction in throw and increased spread of the air pattern.
- End caps can be turned up to allow plenums to be installed on continuous runs. Simple installation with a flexible duct connection.



**ACCESSORIES (OPTIONAL):**

- Internal Insulation:
  - 5350I(MP) 1/2" (13) slot.
  - 5375I(MP) 3/4" (19) slot.
  - 5310I(MP) 1" (25) slot.
  - 5315I(MP) 1 1/2" (38) slot.
- 1b.
  - FGI 1/4" (6) coated fiberglass.
  - FFI 3/8" (10) fiber-free foam.
2.  EX External Foil Back Insulation
3.  ID Inlet Damper w/HLQ
4.  NI No Inlet

Dimensions are in inches (mm).

<b>SCHEDULE TYPE:</b>			
<b>PROJECT:</b>			
<b>ENGINEER:</b>			
<b>CONTRACTOR:</b>			
<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
12 - 23 - 19	5300	9 - 6 - 17	5300-1



**LINEAR SLOT DIFFUSER PLENUMS**  
**ADAPTORS FOR MODEL SERIES 5000**  
**LINEAR SLOT "ICE TONG" DIFFUSER • 5 - 8 SLOT**  
**MODELS: 5350, 5375, 5310 AND 5315(MP)**

**5 THROUGH 8 SLOT**

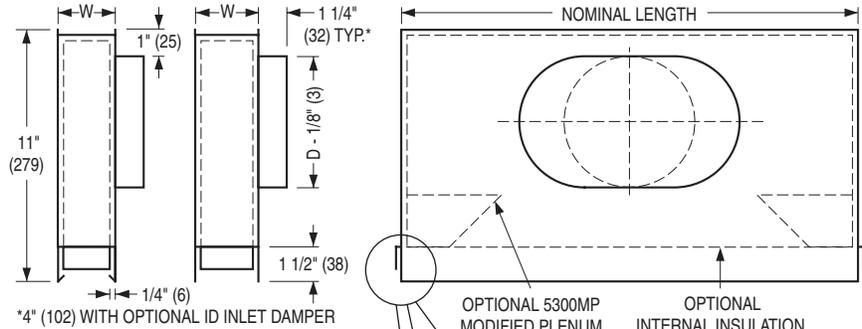
**STANDARD MODELS:**

- 5350** • 1/2" (13) Slot
- 5375** • 3/4" (19) Slot
- 5310** • 1" (25) Slot
- 5315** • 1 1/2" (38) Slot

**MODIFIED PERFORMANCE MODELS:**

- 5350MP** • 1/2" (13) Slot
- 5375MP** • 3/4" (19) Slot
- 5310MP** • 1" (25) Slot
- 5315MP** • 1 1/2" (38) Slot

**Hemmed Leg Frame Types:** C, D, J, N  
**Straight Leg Frame Types:** A, B, E, F, FL, G, H, H2, KA, K1, K2, M, T



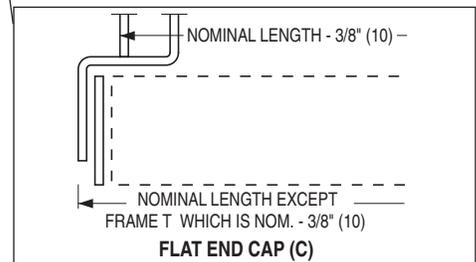
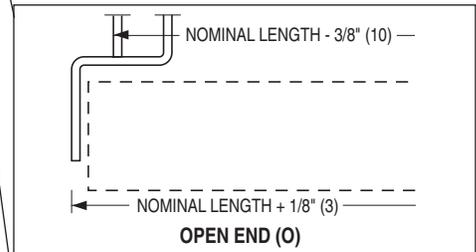
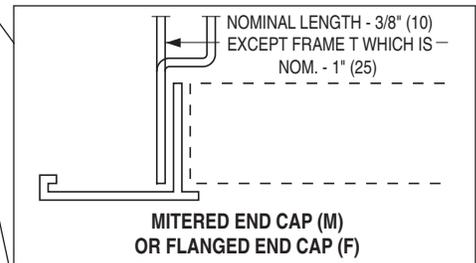
Nominal Length		Standard Nominal Inlets (D)	
inches	mm	inches	mm
20	508	4, 5, 6, 8, 10	102, 127, 152, 203, 254
24	610		
30	762		
36	914	6, 8, 10, 12, 14	152, 203, 254, 305, 356
48	1219		
60	1524		
72	1829		

Inlets 4" thru' 8" (102 thru 203) are round and 10" thru' 14" (254 thru 356) are flat oval.  
 Equivalent oval: 10" (254) = 11" x 7 7/8" (279 x 200); 12" (305) = 14 1/8" x 7 7/8" (359 x 200);  
 14" (356) = 17 5/16" x 7 7/8" (440 x 200).

Model	No. of Slots	Plenum Width (W) For Various Frame Types									
		Imperial Units (inches)					Metric Units (mm)				
		A, B, FL, KA, K1, K2, M, T	C, D, F, J, H, H2, N	E	G	A, B, FL, KA, K1, K2, M, T	C, D, F, J, H, H2, N	E	G		
5350	5	6 1/2	7	7 1/4	7 1/2	165	178	184	191		
5375		7 3/4	8 1/4	8 1/2	8 3/4	197	210	216	222		
5310		9	9 1/2	9 3/4	10	229	241	248	254		
5315		11 1/2	12	12 1/4	12 1/2	292	305	311	318		
5350	6	7 3/4	8 1/4	8 3/4	8 3/4	197	210	216	222		
5375		9 1/4	9 3/4	10	10 1/4	235	248	254	260		
5310		10 3/4	11 1/4	11 1/2	11 3/4	273	286	292	298		
5315		13 3/4	14 1/4	14 1/2	14 3/4	349	362	368	375		
5350	7	9	9 1/2	9 3/4	10	229	241	248	254		
5375		10 3/4	11 1/4	11 1/2	11 3/4	273	286	292	298		
5310		12 1/2	13	13 1/4	13 1/2	318	330	337	343		
5315		16	16 1/2	16 3/4	17	406	419	425	432		
5350	8	10 1/4	10 3/4	11	11 1/4	260	273	279	286		
5375		12 1/4	12 3/4	13	13 1/4	311	324	330	337		
5310		14 1/4	14 3/4	15	15 1/4	362	375	381	387		
5315		18 1/4	18 3/4	19	19 1/4	464	476	483	489		

**NOTES:**

- Construction: Corrosion-resistant steel.
- Nailor Series 5300 Plenums are designed specifically for field attachment to the 5000 Series Linear Slot Diffuser. They ensure optimum use of the 5000 Series VAV performance, providing a tight horizontal air pattern even at low volumes. Optional MP models incorporate integral baffles, which provide a reduction in throw and increased spread of the air pattern.
- End caps can be turned up to allow plenums to be installed on continuous runs. Simple installation with a flexible duct connection.



**ACCESSORIES (OPTIONAL):**

- 1a. Internal Insulation:
    - 5350I(MP) 1/2" (13) slot.
    - 5375I(MP) 3/4" (19) slot.
    - 5310I(MP) 1" (25) slot.
    - 5315I(MP) 1 1/2" (38) slot.
  - 1b.
    - FGI 1/4" (6) coated fiberglass.
    - FFI 3/8" (10) fiber-free foam.
  2.  EX External Foil Back Insulation
  3.  ID Inlet Damper w/HLQ
  4.  NI No Inlet
- Dimensions are in inches (mm).

<b>SCHEDULE TYPE:</b>			
<b>PROJECT:</b>			
<b>ENGINEER:</b>			
<b>CONTRACTOR:</b>			
<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
12 - 23 - 19	5300	9 - 6 - 17	5300-2



**LINEAR SLOT DIFFUSER PLENUMS**  
 WITH CABLE OPERATED INLET DAMPER  
 5000 SERIES • LINEAR SLOT DIFFUSER ACCESSORY  
 1 - 4 SLOT  
**MODEL SERIES: 5300(MP) WITH IDCO OPTION**

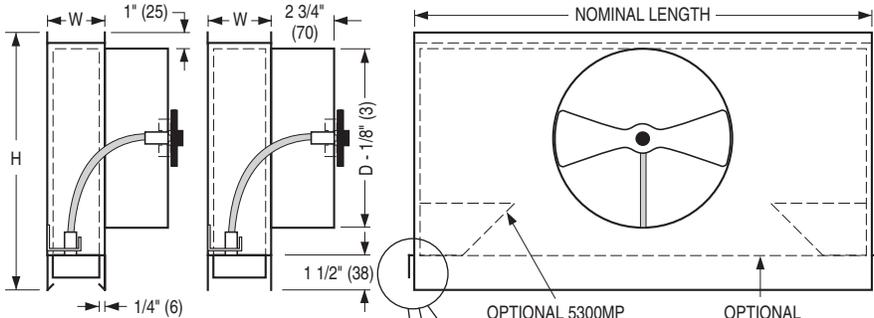
**1 THROUGH 4 SLOT  
 STANDARD MODELS:**

- 5375 • 3/4" (19) Slot
- 5310 • 1" (25) Slot
- 5315 • 1 1/2" (38) Slot

**MODIFIED PERFORMANCE  
 MODELS:**

- 5375MP • 3/4" (19) Slot
- 5310MP • 1" (25) Slot
- 5315MP • 1 1/2" (38) Slot

**Hemmed Leg Frame Types:** C, D, J, N  
**Straight Leg Frame Types:** A, B, E, F, FL, G, H, H2, KA, K1, K2, M, T



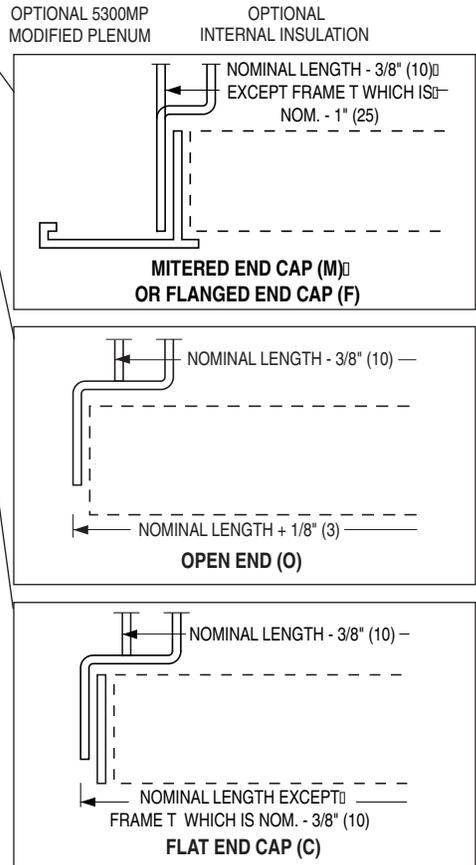
Nominal Length		Standard Nominal Inlets (D)	
inches	mm	inches	mm
20	508	6, 8, 10	152, 203, 254
24	610		
30	762		
36	914	6, 8, 10, 12, 14	152, 203, 254, 305, 356
48	1219		
60	1524		
72	1829		

Inlet Size D (Round)	Plenum Height (H)
6 (152), 8 (203)	11 (279)
10 (254)	13 (330)
12 (305)	15 (381)
14 (356)	17 (432)

Model	No. of Slots	Plenum Width (W) For Various Frame Types							
		Imperial Units (inches)				Metric Units (mm)			
		A, B, FL, KA, K1, K2, M, T	C, D, F, J, H, H2, N	E	G	A, B, FL, KA, K1, K2, M, T	C, D, F, J, H, H2, N	E	G
5375	1	1 3/4	2 1/4	2 1/2	2 3/4	44	57	64	70
5310		2	2 1/2	2 3/4	3	51	64	70	76
5315		2 1/2	3	3 1/4	3 1/2	64	76	83	89
5375	2	3 1/4	3 3/4	4	4 1/4	83	95	102	108
5310		3 3/4	4 1/4	4 1/2	4 3/4	95	108	114	121
5315		4 3/4	5 1/4	5 1/2	5 3/4	121	133	140	146
5375	3	4 3/4	5 1/4	5 1/2	5 3/4	121	133	140	146
5310		5 1/2	6	6 1/4	6 1/2	140	152	159	165
5315		7	7 1/2	7 3/4	8	178	191	197	203
5375	4	6 1/4	6 3/4	7	7 1/4	159	171	178	184
5310		7 1/4	7 3/4	8	8 1/4	184	197	203	210
5315		9 1/4	9 3/4	10	10 1/4	235	248	254	260

**NOTES:**

- Construction: Corrosion-resistant steel.
- Nailor Series 5300 Plenums are designed specifically for field attachment to the 5000 Series Linear Slot Diffuser. They ensure optimum use of the 5000 Series VAV performance, providing a tight horizontal air pattern even at low volumes. Optional MP models incorporate integral baffles, which provide a reduction in throw and increased spread of the air pattern.
- End caps can be turned up to allow plenums to be installed on continuous runs. Simple installation with a flexible duct connection.
- The round inlet damper is Nailor's 4250 radial sliding blade design factory mounted on the inlet. 5315 and 5310: A flexible rotary cable connects the damper to a Phillips head screw operator mounted inside the plenum that permits air balancing at the diffuser face. 5375: Flexible rotary cable with male square rotary end and nylon cable clamp adjusts with a 1/4" (6) hex nut driver. Cable is threaded through diffuser face during installation for balancing and pushed back in afterwards.



**ACCESSORIES (OPTIONAL):**

- Internal Insulation:
  - 5375I(MP) 3/4" (19) slot.
  - 5310I(MP) 1" (25) slot.
  - 5315I(MP) 1 1/2" (38) slot.
- 1b.  FGI 1/4" (6) coated fiberglass.
- FFI 3/8" (10) fiber-free foam.
2.  EX External Foil Back Insulation.

Dimensions are in inches (mm).

<b>SCHEDULE TYPE:</b>			
<b>PROJECT:</b>			
<b>ENGINEER:</b>			
<b>CONTRACTOR:</b>			
<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
2 - 26 - 20	5300	12 - 23 - 19	5300-3



**LINEAR SLOT DIFFUSER PLENUMS**  
 WITH CABLE OPERATED INLET DAMPER  
 5000 SERIES • LINEAR SLOT DIFFUSER ACCESSORY  
 5 - 8 SLOT  
**MODEL SERIES: 5300(MP) WITH IDCO OPTION**

**5 THROUGH 8 SLOT**

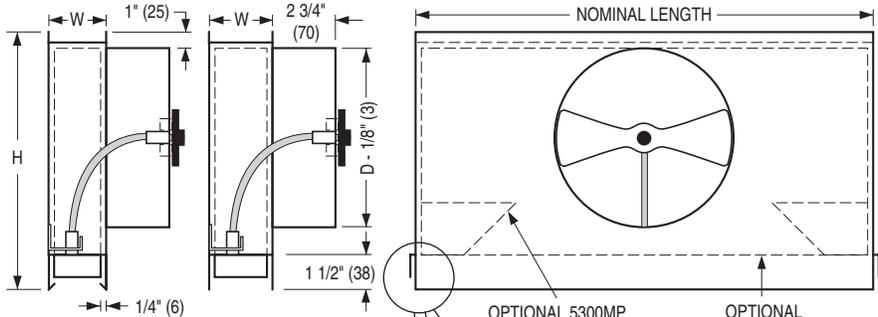
**STANDARD MODELS:**

- 5375 • 3/4" (19) Slot
- 5310 • 1" (25) Slot
- 5315 • 1 1/2" (38) Slot

**MODIFIED PERFORMANCE MODELS:**

- 5375MP • 3/4" (19) Slot
- 5310MP • 1" (25) Slot
- 5315MP • 1 1/2" (38) Slot

**Hemmed Leg Frame Types:** C, D, J, N  
**Straight Leg Frame Types:** A, B, E, F, FL, G, H, H2, KA, K1, K2, M, T



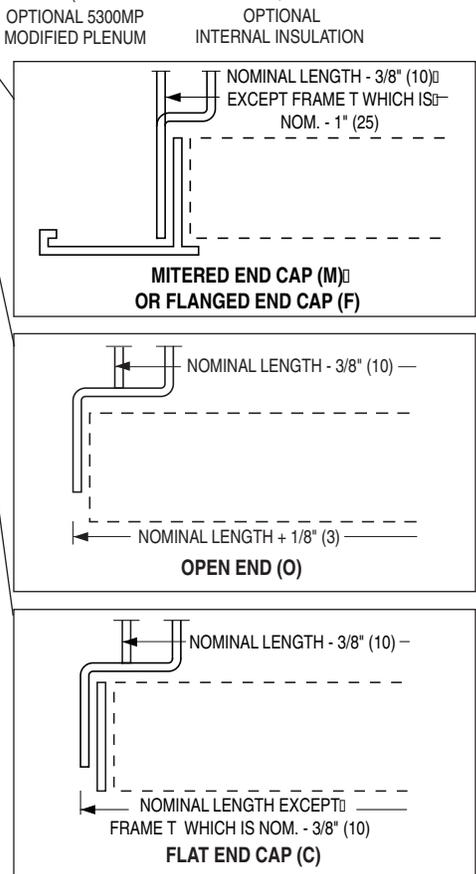
Nominal Length		Standard Nominal Inlets (D)	
inches	mm	inches	mm
20	508	6, 8, 10	152, 203, 254
24	610		
30	762		
36	914	6, 8, 10, 12, 14	152, 203, 254, 305, 356
48	1219		
60	1524		
72	1829		

Inlet Size D (Round)	Plenum Height (H)
6 (152), 8 (203)	11 (279)
10 (254)	13 (330)
12 (305)	15 (381)
14 (356)	17 (432)

Model	No. of Slots	Plenum Width (W) For Various Frame Types							
		Imperial Units (inches)				Metric Units (mm)			
		A, B, FL, KA, K1, K2, M, T	C, D, F, J, H, H2, N	E	G	A, B, FL, KA, K1, K2, M, T	C, D, F, J, H, H2, N	E	G
5375	5	7 3/4	8 1/4	8 1/2	8 3/4	197	210	216	222
5310		9	9 1/2	9 3/4	10	229	241	248	254
5315		11 1/2	12	12 1/4	12 1/2	292	305	311	318
5375	6	9 1/4	9 3/4	10	10 1/4	235	248	254	260
5310		10 3/4	11 1/4	11 1/2	11 3/4	273	286	292	298
5315		13 3/4	14 1/4	14 1/2	14 3/4	349	362	368	375
5375	7	10 3/4	11 1/4	11 1/2	11 3/4	273	286	292	298
5310		12 1/2	13	13 1/4	13 1/2	318	330	337	343
5315		16	16 1/2	16 3/4	17	406	419	425	432
5375	8	12 1/4	12 3/4	13	13 1/4	311	324	330	337
5310		14 1/4	14 3/4	15	15 1/4	362	375	381	387
5315		18 1/4	18 3/4	19	19 1/4	464	476	483	489

**NOTES:**

- Construction: Corrosion-resistant steel.
- Nailor Series 5300 Plenums are designed specifically for field attachment to the 5000 Series Linear Slot Diffuser. They ensure optimum use of the 5000 Series VAV performance, providing a tight horizontal air pattern even at low volumes. Optional MP models incorporate integral baffles, which provide a reduction in throw and increased spread of the air pattern.
- End caps can be turned up to allow plenums to be installed on continuous runs. Simple installation with a flexible duct connection.
- The round inlet damper is Nailor's 4250 radial sliding blade design factory mounted on the inlet. 5315 and 5310: A flexible rotary cable connects the damper to a Phillips head screw operator mounted inside the plenum that permits air balancing at the diffuser face. 5375: Flexible rotary cable with male square rotary end and nylon cable clamp adjusts with a 1/4" (6) hex nut driver. Cable is threaded through diffuser face during installation for balancing and pushed back in afterwards.



**ACCESSORIES (OPTIONAL):**

- Internal Insulation:
  - 5375I(MP) 3/4" (19) slot.
  - 5310I(MP) 1" (25) slot.
  - 5315I(MP) 1 1/2" (38) slot.
- 1b.  FGI 1/4" (6) coated fiberglass.
- FFI 3/8" (10) fiber-free foam.
2.  EX External Foil Back Insulation.

Dimensions are in inches (mm).

<b>SCHEDULE TYPE:</b>			
<b>PROJECT:</b>			
<b>ENGINEER:</b>			
<b>CONTRACTOR:</b>			
<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
2 - 26 - 20	5300	12 - 23 - 19	5300-4



**PLENUMS FOR 5075TS SERIES  
LINEAR SLOT "ICE TONG" DIFFUSERS  
FOR CERTAINEED TECHSTYLE CEILING APPLICATIONS  
MODEL: 5375TS SUPPLY (MP)**

**STANDARD MODEL:**

5375TS • 3/4" (19) Slot

**MODIFIED PERFORMANCE MODEL:**

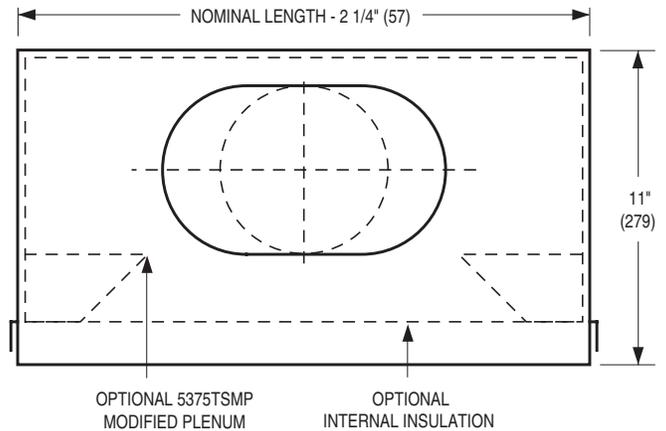
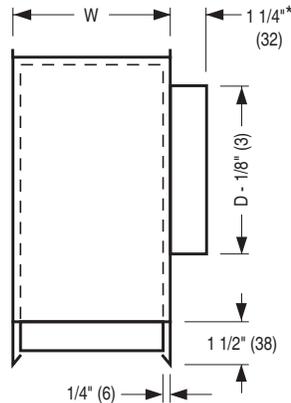
5375TSMP • 3/4" (19) Slot

**DIFFUSER FRAME TYPE:**

TSD • Concealed 15/16" (24) Flat T-Bar

\* 4" (102) with optional ID Inlet Damper w/HLQ.

**Hemmed Leg**



Nominal Length		Standard Nominal Inlets (D)	
inches	mm	inches	mm
24	610		
30	762	4, 5, 6, 8, 10	102, 127, 152, 203, 254
36	914		
48	1219		
60	1524	6, 8, 10, 12	152, 203, 254, 305
72	1829		

Inlets 4" thru' 8" are round and 10" thru' 12" are flat oval.

No. of Slots	Plenum Width (W) For Frame Type TSD	
	Imperial Units (inches)	Metric Units (mm)
3	5 1/2	140

**NOTES:**

1. Construction: Corrosion-resistant steel.
2. Nailor Series 5375TS Plenums are designed specifically for field attachment to the 5075TS Series Linear Slot Diffuser. They ensure optimum use of the 5075TS Series VAV performance, providing a tight horizontal air pattern even at low volumes. Optional MP models incorporate integral baffles, which provide a reduction in throw and increased spread of the air pattern.
3. End caps can be turned up and field trimmed as necessary to fit diffuser length and provide a blank-off to reduce air leakage at end of diffuser.

**ACCESSORIES (OPTIONAL):**

1.  Internal Insulation. 5375TSI(MP) 3/4" (19) Slot
2.  EX External Foil Back Insulation
3.  ID Inlet Balancing Damper w/HLQ
4.  NI No Inlet (field cut and installed)

<b>SCHEDULE TYPE:</b>		Dimensions are in inches (mm).			
<b>PROJECT:</b>					
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>	
<b>CONTRACTOR:</b>	9 - 25 - 23	5300	NEW	5375TS-1	



**PLENUMS FOR 5075TZ SERIES  
LINEAR SLOT "ICE TONG" DIFFUSERS  
FOR TECHZONE™ TYPE CEILINGS  
MODEL: 5375TZ (MP)**

**STANDARD MODEL:**

5375TZ • 3/4" (19) Slot

**MODIFIED PERFORMANCE MODEL:**

5375TZMP • 3/4" (19) Slot

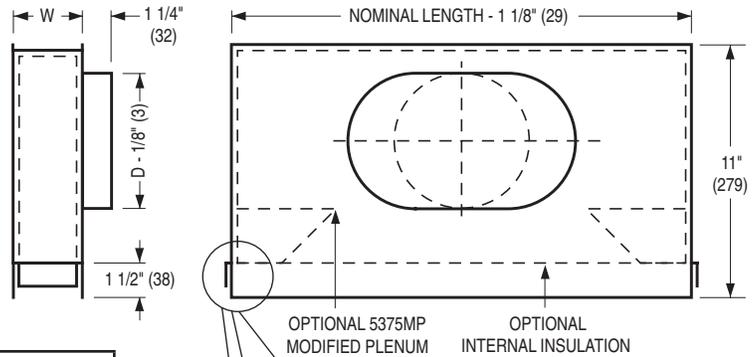
**DIFFUSER FRAME TYPE:**

L • Lay-In T-Bar

TL • Tegular T-Bar

NT • Narrow T-Bar Lay-in

**Straight Leg**



Nominal Length		Standard Nominal Inlets (D)	
inches	mm	inches	mm
24	610		
30	762	4, 5, 6, 8, 10	102, 127, 152, 203, 254
36	914		
48	1219		
60	1524	6, 8, 10, 12	152, 203, 254, 305
72	1829		

Inlets 4" thru' 8" are round and 10" thru' 12" are flat oval.

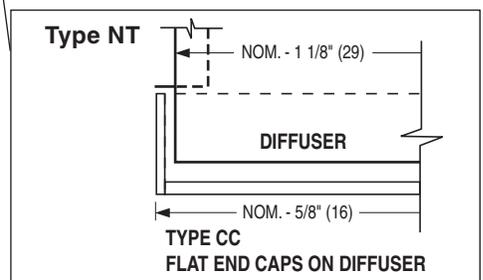
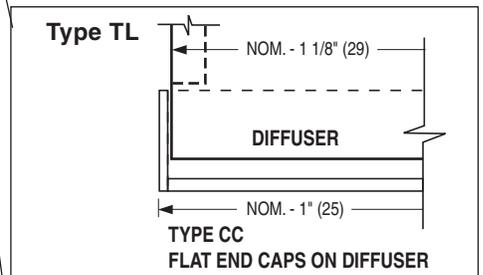
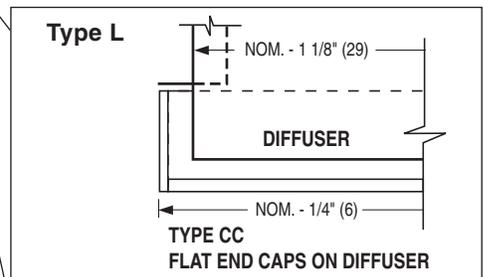
No. of Slots	Plenum Width (W) For Various Frame Types			
	Imperial Units (inches)		Metric Units (mm)	
	L, NT	TL	L, NT	TL
1	1 1/2	1 1/2	38	38
2	2 3/4	2 3/4	70	70
3	4	4	102	102
4	5 1/4	N/A	133	N/A

**NOTES:**

1. Construction: Corrosion-resistant steel.
2. Nailor Series 5375TZ Plenums are designed specifically for field attachment to the 5075TZ Series Linear Slot Diffuser. They ensure optimum use of the 5075TZ Series VAV performance, providing a tight horizontal air pattern even at low volumes. Optional MP models incorporate integral baffles, which provide a reduction in throw and increased spread of the air pattern.
3. End caps can be turned up and field trimmed as necessary to fit diffuser length and provide a blank-off to reduce air leakage at end of diffuser.

**ACCESSORIES (OPTIONAL):**

1.  Internal Insulation. 5375TZI(MP) 3/4" (19) Slot
2.  EX External Foil Back Insulation
3.  ID Inlet Damper
4.  NI No Inlet



**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
12 - 23 - 19	5300	5 - 11 - 12	5375TZ-1



**PLENUMS FOR 5075TZ SERIES  
LINEAR SLOT "ICE TONG" DIFFUSERS  
FOR TECHZONE™ TYPE CEILINGS  
MODEL: 5375TZ (MP) WITH IDCO OPTION**

**STANDARD MODEL:**

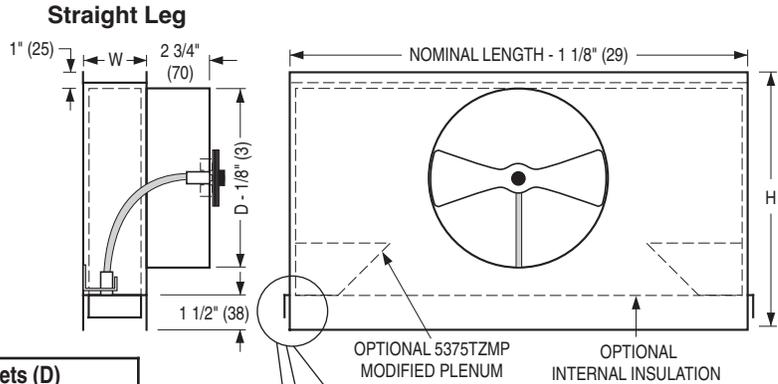
5375TZ • 3/4" (19) Slot

**MODIFIED PERFORMANCE MODEL:**

5375TZMP • 3/4" (19) Slot

**DIFFUSER FRAME TYPE:**

- L • Lay-In T-Bar
- TL • Tegular T-Bar
- NT • Narrow T-Bar Lay-in



Nominal Length		Standard Nominal Inlets (D)	
inches	mm	inches	mm
24	610		
30	762	6, 8, 10	152, 203, 254
36	914		
48	1219		
60	1524	6, 8, 10, 12, 14	152, 203, 254, 305, 356
72	1829		

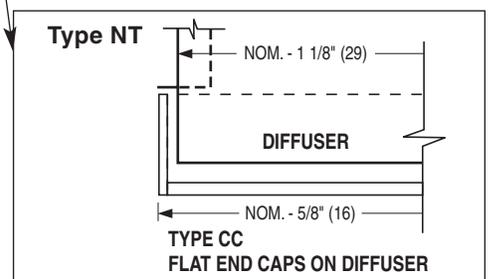
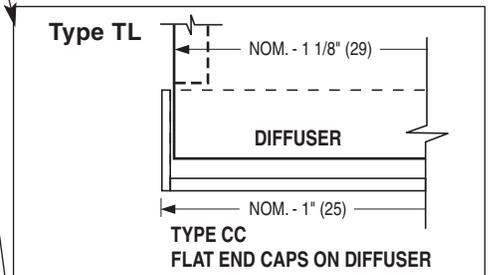
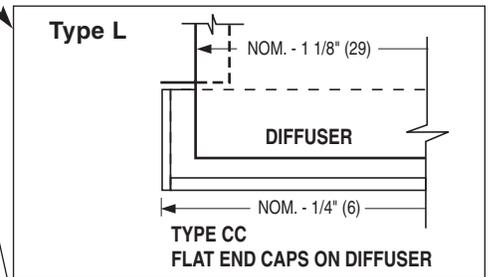
Plenum		Inlet Type / Size D (Round)
Code	Height	
H11	11" (279)	6" (152), 8" (203)
H13	13" (330)	10" (254)
H15	15" (381)	12" (305)
H17	17" (432)	14" (356)

No. of Slots	Plenum Width (W) For Various Frame Types			
	Imperial Units (inches)		Metric Units (mm)	
	L, NT	TL	L, NT	TL
1	1 1/2	1 1/2	38	38
2	2 3/4	2 3/4	70	70
3	4	4	102	102
4	5 1/4	N/A	133	N/A

**NOTES:**

- Construction: Corrosion-resistant steel.
- Nailor Series 5375TZ Plenums are designed specifically for field attachment to the 5075TZ Series Linear Slot Diffuser. They ensure optimum use of the 5075TZ Series VAV performance, providing a tight horizontal air pattern even at low volumes. Optional MP models incorporate integral baffles, which provide a reduction in throw and increased spread of the air pattern.
- End caps can be turned up and field trimmed as necessary to fit diffuser length and provide a blank-off to reduce air leakage at end of diffuser.
- Frame Type 'TL' is available in 1 thru 3 slot only.
- IDCO Cable operated damper is available with round inlets 06, 08, 10R, 12R and 14R only.

The round inlet damper is Nailor's 4250 radial sliding blade design factory mounted on the inlet. 5375: Flexible rotary cable with male square rotary end and nylon cable clamp adjusts with a 1/4" (6) hex nut driver. Cable is threaded through diffuser face during installation for balancing and pushed back in afterwards.



**ACCESSORIES (OPTIONAL):**

- Internal Insulation.  
5375TZI(MP) 3/4" (19) Slot
- EX External Foil Back Insulation

Dimensions are in inches (mm).

<b>SCHEDULE TYPE:</b>	
<b>PROJECT:</b>	
<b>ENGINEER:</b>	
<b>CONTRACTOR:</b>	

DATE	B SERIES	SUPERSEDES	DRAWING NO.
8 - 16 - 16	5300	NEW	5375TZ-2



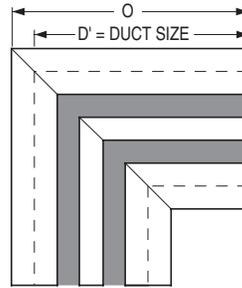
**LINEAR SLOT DIFFUSERS**  
**EXTRUDED ALUMINUM**  
**OPTIONS AND ACCESSORIES**  
**MODEL SERIES: 5000**

**90° Mitered Corners**

- 5050MC • 1/2" (13) Slot
- 5075MC • 3/4" (19) Slot
- 5010MC • 1" (25) Slot
- 5015MC • 1 1/2" (38) Slot

The standard mitered corners are 90° and 135°. Units are factory welded with precision to match and align with the associated straight leg.

Units are supplied with factory installed blank-offs in the slot (painted black) and are inactive.



D' = Duct Size		
Models	No. of Slots	D'
5050MC 5075MC	1 to 4	12 (305)
	5 to 10	24 (610)
5010MC 5015MC	1 to 4	16 (406)
	5 to 8	24 (610)
	9 to 10	36 (914)

**Special Mitered Corners**

- Other Angle \_\_\_\_\_

\*Available from 45 – 179° as SPL.

(A detailed dimensional sketch is required for co-ordination with installing contractor).

**90° Mitered Corner Dimension 'O'**

Frame Type					
A, B	C, F, H, H2, J, T	D	E, G	KA, K1, K2	M, N, FL
D' + 9/16 (14)	D' + 3/8 (10)	D' + 1/8 (3)	D' - 1/8 (3)	D' + 5/8 (16)	D'

**Plenums**

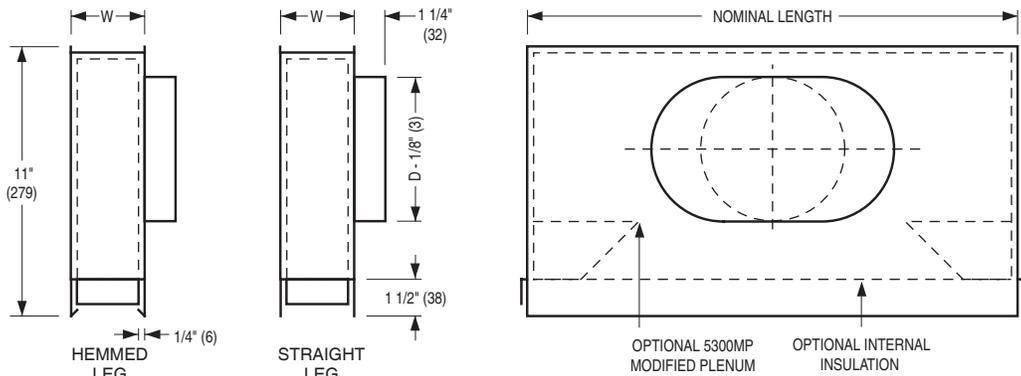
**Standard Models**

**Uninsulated:**

- 5350 • 1/2" (13) Slot
- 5375 • 3/4" (19) Slot
- 5310 • 1" (25) Slot
- 5315 • 1 1/2" (38) Slot

**Insulated:**

- 5350I • 1/2" (13) Slot
- 5375I • 3/4" (19) Slot
- 5310I • 1" (25) Slot
- 5315I • 1 1/2" (38) Slot



**Modified Performance Models**

**Uninsulated:**

- 5350MP • 1/2" (13) Slot
- 5375MP • 3/4" (19) Slot
- 5310MP • 1" (25) Slot
- 5315MP • 1 1/2" (38) Slot

**Insulated:**

- 5350IMP • 1/2" (13) Slot
- 5375IMP • 3/4" (19) Slot
- 5310IMP • 1" (25) Slot
- 5315IMP • 1 1/2" (38) Slot

Standard Plenums have square shoulders. An optional modified plenum is available with the addition of integral baffles (add suffix MP) which provides a reduction in throw and increased spread of the air pattern.

- Request submittal dwg. 5300-1 for full dimensional data and available length and inlet size combinations.

**EF Flanged End Caps** [Shipped loose]

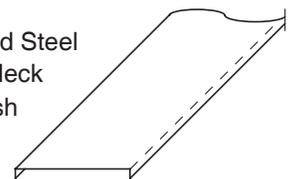
- 5050EF for 1/2" (13) Slot
- 5075EF for 3/4" (19) Slot
- 5010EF for 1" (25) Slot
- 5015EF for 1 1/2" (38) Slot

**BO Blank-Offs**

- 5050BO for 1/2" (13) Slot
- 5075BO for 3/4" (19) Slot
- 5010BO for 1" (25) Slot
- 5015BO for 1 1/2" (38) Slot

Shipped in 6' (1829) lengths to be field-cut.

- Cold-Rolled Steel
- Fits over Neck
- Black Finish



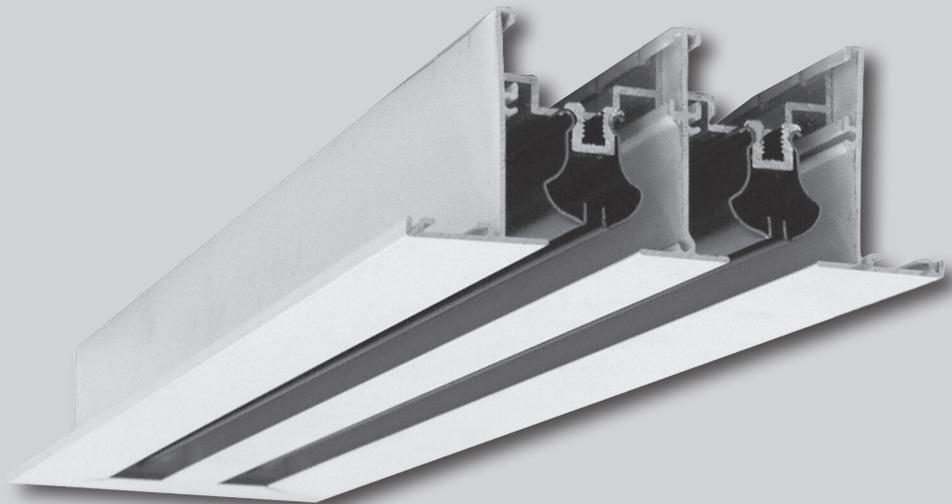
Dimensions are in inches (mm).

<b>SCHEDULE TYPE:</b>				
<b>PROJECT:</b>				
<b>ENGINEER:</b>		<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>
<b>CONTRACTOR:</b>		12 - 30 - 19	5000	9 - 6 - 17
				<b>DRAWING NO.</b>
				5000 - 5

# INSTALLATION, OPERATION & MAINTENANCE

M  
A  
N  
U  
A  
L

## Model Series 5000 Linear Slot Diffusers



Model Series 5000: Supply  
Model Series 5000R: Return  
[www.nailor.com](http://www.nailor.com)

 **Nailor**<sup>®</sup>  
Industries Inc.

### Installation Practices During Hard Ceiling Construction

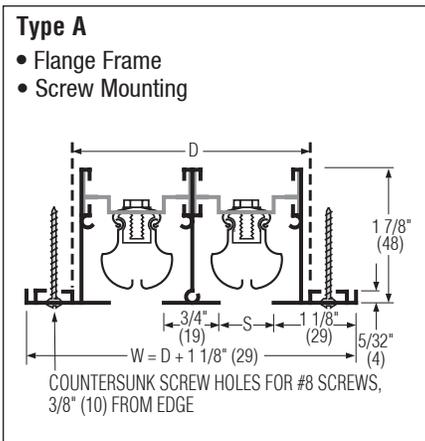
Following are the recommended instructions for Model Series 5000 Diffuser installation. It is the responsibility of the installing contractor to install in accordance with local codes and regulations.

#### Summary of Steps to Install Model Series 5000 Diffusers in Hard Ceiling Applications

- Step 1. Determine Diffuser Frame/Border Style  
 Step 2. Follow the installation procedures for each frame.
- 2a. Installation of frame type A and B.
  - 2b. Installation of frame type C and D.
  - 2c. Installation of frame type E, F, G and H.
  - 2d. Installation of frame type J.
  - 2e. Installation of frame type K1, K2 and KA.
- Step 3. Surface Finishing Procedure (where applicable)

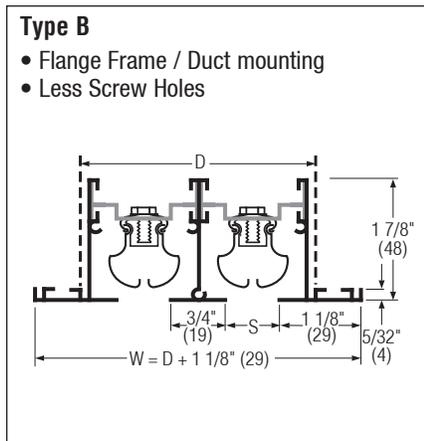
#### 1. Identify the Model Series 5000 Diffuser Frame Style for your installation.

There are 12 frame/border styles described below to accommodate almost any application.



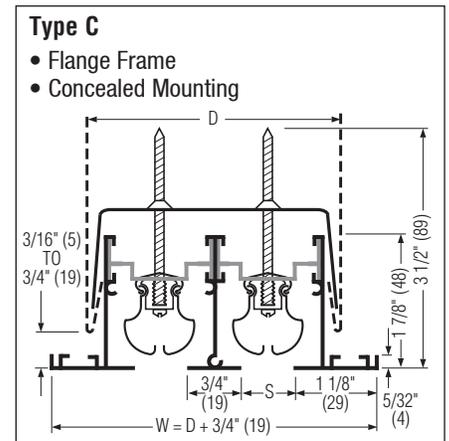
**Figure 1. Frame style A.**

Frame border style A - used for hard ceiling applications where the frame can be directly screwed onto the framing member.



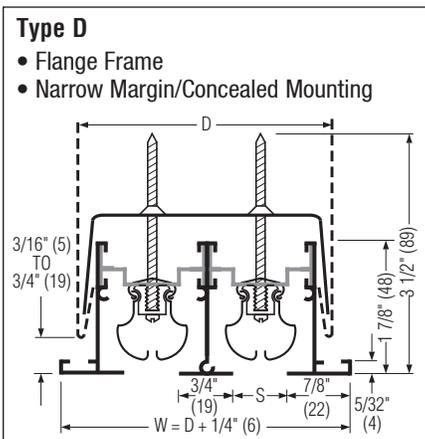
**Figure 2. Frame style B.**

Frame border style B - used for hard ceiling applications where the diffuser can mount directly to the duct.



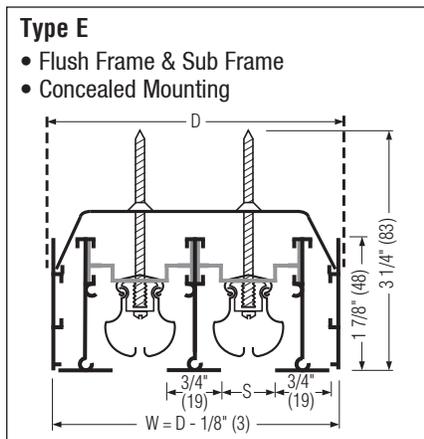
**Figure 3. Frame style C.**

Frame border style C - used for hard ceiling applications where the mounting bracket can attach to the hems of the duct.



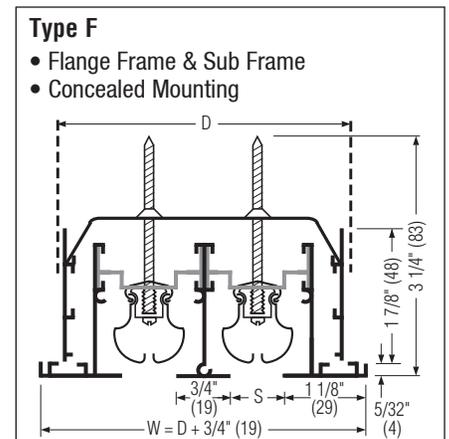
**Figure 4. Frame Style D.**

Frame border styles D - used in similar applications to frame C with a narrower frame.



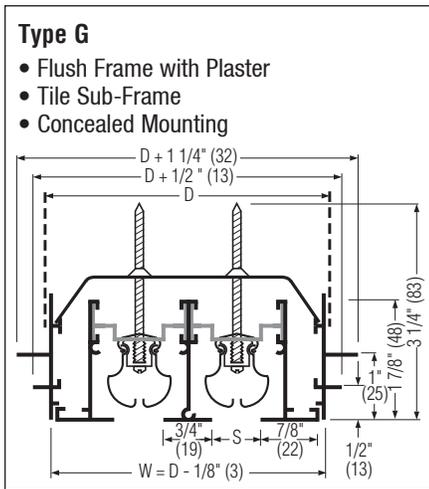
**Figure 5. Frame Style E.**

Frame border styles E - used for hard ceiling applications where the frame will sit flush with the ceiling surface and is held by a subframe and mounting bracket.

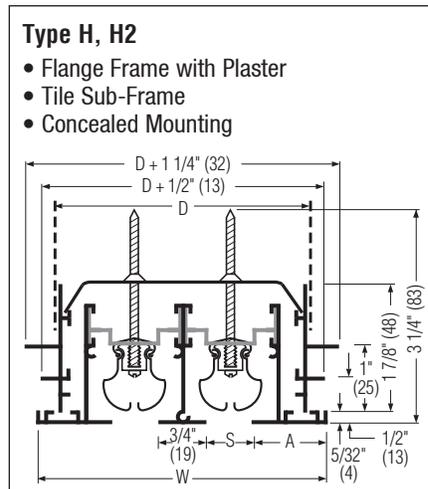


**Figure 6. Frame Style F.**

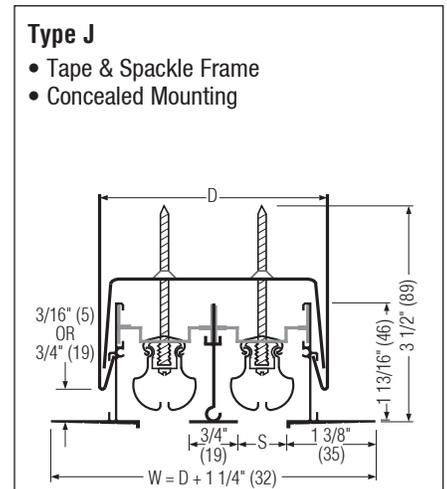
Frame border style F - used for hard ceiling applications where the frame will give a surface mount diffuser appearance and is held by a subframe and mounting bracket.



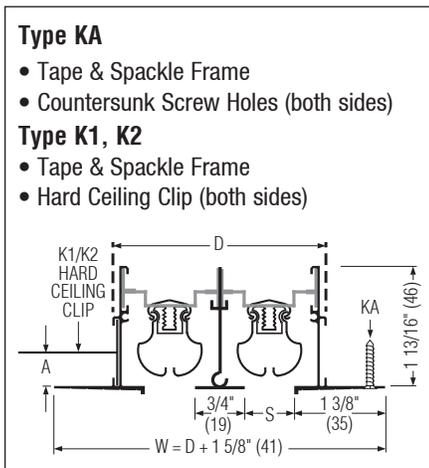
**Figure 7. Frame style G.**  
Frame border style G - used for hard ceiling applications where the frame will sit flush with the ceiling surface and is held by a tile subframe and mounting bracket.



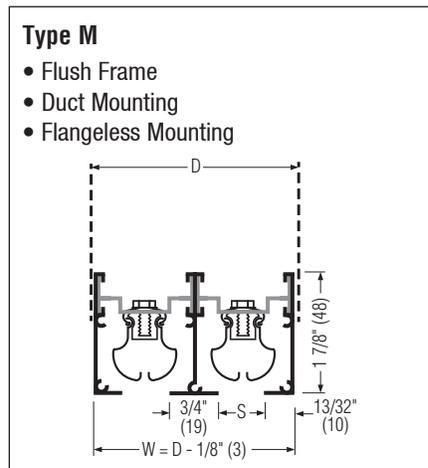
**Figure 8. Frame style H.**  
Frame border style H - used for hard ceiling applications where the frame will give a surface mount diffuser appearance and is held by a tile subframe and mounting bracket.



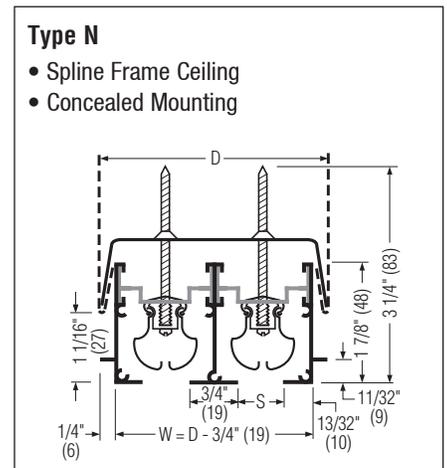
**Figure 9. Frame style J.**  
Frame border style J - used for hard ceiling applications where the frame will sit flush with the ceiling surface and is held by a concealed mounting bracket.



**Figure 10. Frame Style K.**  
Frame border styles K - used for hard ceiling applications where the frame will sit flush with the ceiling surface and is held either by screws drilled into a framing member (KA) or with hard ceiling clips (K1, K2).  
Ceiling clips come in 2 configurations  
K1, A = 1/2" (12), HC5  
K2, A = 5/8" (16), HC1



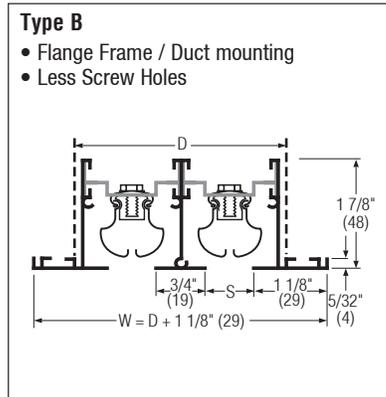
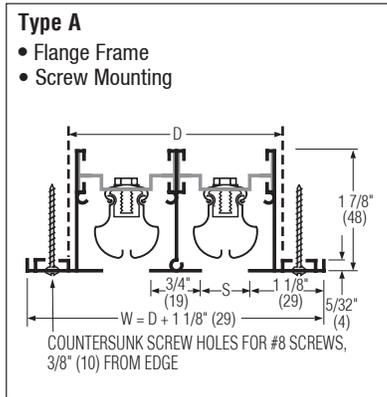
**Figure 11. Frame Style M.**  
Frame border styles M - used for hard ceiling applications where the diffuser can mount directly to the duct and it will sit flush with the ceiling surface.



**Figure 12. Frame Style N.**  
Frame border style N - used for hard ceiling applications where the frame will sit flush with the ceiling surface and is held by a concealed mounting bracket.

## 2a. Installation of frame type A and B.

A. Frame ceiling opening based on the recommended dimensions. Ceiling opening will be based on the duct width  $D + 1/8"$  (3), with nominal length based on endcaps. Consult the measurement tables on page 13 & 14 for more details.



### Duct Width D Dimension:

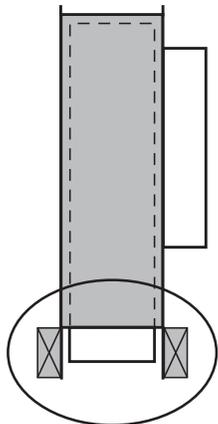
Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
A, B	1	5/8"	1 7/8"	2 1/8"	2 5/8"
	2	2 7/8"	3 3/8"	3 7/8"	4 7/8"
	3	4 1/8"	4 7/8"	5 5/8"	7 1/8"
	4	5 3/8"	6 3/8"	7 3/8"	9 3/8"
	5	6 5/8"	7 7/8"	9 1/8"	11 5/8"
	6	7 7/8"	9 3/8"	10 7/8"	13 7/8"
	7	9 1/8"	10 7/8"	12 5/8"	16 1/8"
	8	10 3/8"	12 3/8"	14 3/8"	18 3/8"
	9	11 5/8"	13 7/8"	16 1/8"	20 5/8"
	10	12 7/8"	15 3/8"	17 7/8"	22 7/8"

B. Install Model 5300 Plenum, use a straight leg plenum frame. Secure plenum to framing member as required by local building codes.

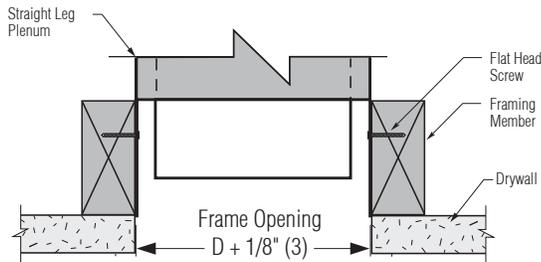
Note: The plenum must be mounted to the ceiling prior to installing the diffuser since the opening will be too small for the plenum to be installed after.

C. Install drywall to ceiling, finish and paint.

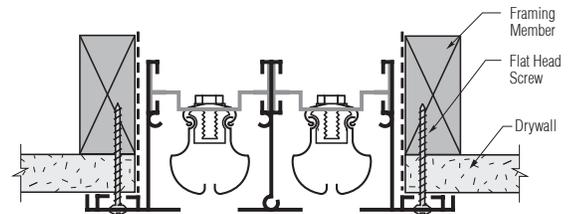
D. Secure diffuser type A frame to drywall and frame member using screws. Type B frames must be mounted by others.



Step B.



Step C.

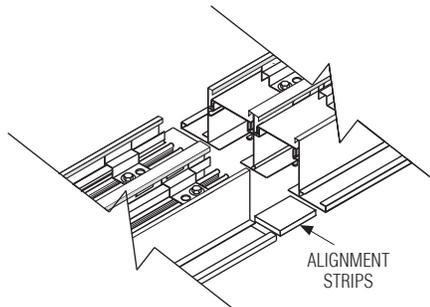


Step D.

E. In case of multiple sections. Use alignment strips to join additional diffuser sections together in-line and check ends for flushness.

Note: Leave a 1/8" (3) gap to allow for thermal expansion between sections longer than 12 feet (3658).

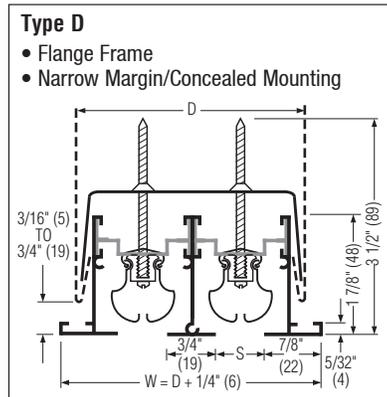
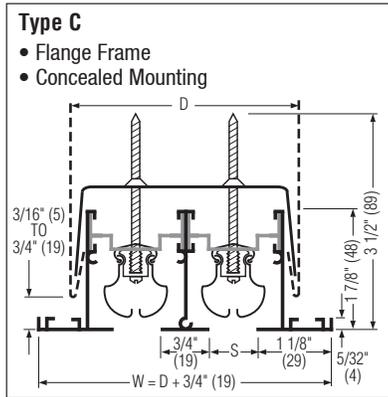
F. Adjust diffuser pattern controllers to achieve desired flow (reference page 11 for pattern illustrations)



Step E.

## 2b. Installation of frame type C and D.

A. Frame ceiling opening based on the recommended dimensions. Ceiling opening will be based on the duct width  $D + 1/8"$  (3), with nominal length based on endcaps. Consult the measurement tables on page 13 & 14 for more details.



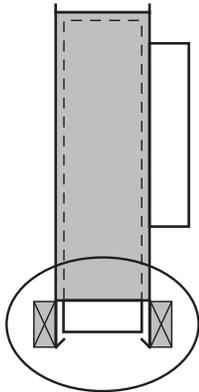
### Duct Width D Dimension:

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
C, D	1	2"	2 1/4"	2 1/2"	3"
	2	3 1/4"	3 3/4"	4 1/4"	5 1/4"
	3	4 1/2"	5 1/4"	6"	7 1/2"
	4	5 3/4"	6 3/4"	7 3/4"	9 3/4"
	5	7"	8 1/4"	9 1/2"	12"
	6	8 1/4"	9 3/4"	11 1/4"	14 1/4"
	7	9 1/2"	11 1/4"	13"	16 1/2"
	8	10 3/4"	12 3/4"	14 3/4"	18 3/4"
	9	12"	14 1/4"	16 1/2"	21"
	10	13 1/4"	15 3/4"	18 1/4"	23 1/4"

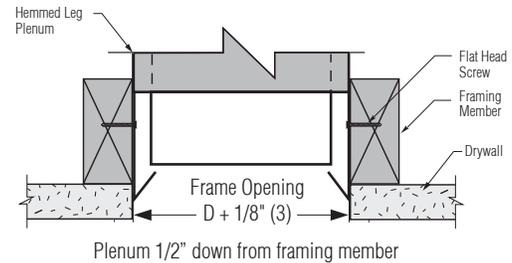
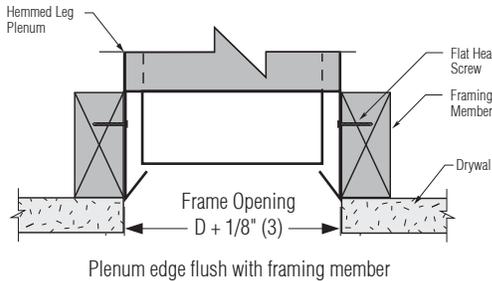
B. Install Model 5300 Plenum, use a hemmed leg plenum frame. Secure plenum to framing member as required by local building codes.

Note: The plenum must be mounted to the ceiling prior to installing the diffuser since the opening will be too small for the plenum to be installed after.

C. Install drywall to ceiling, finish and paint.



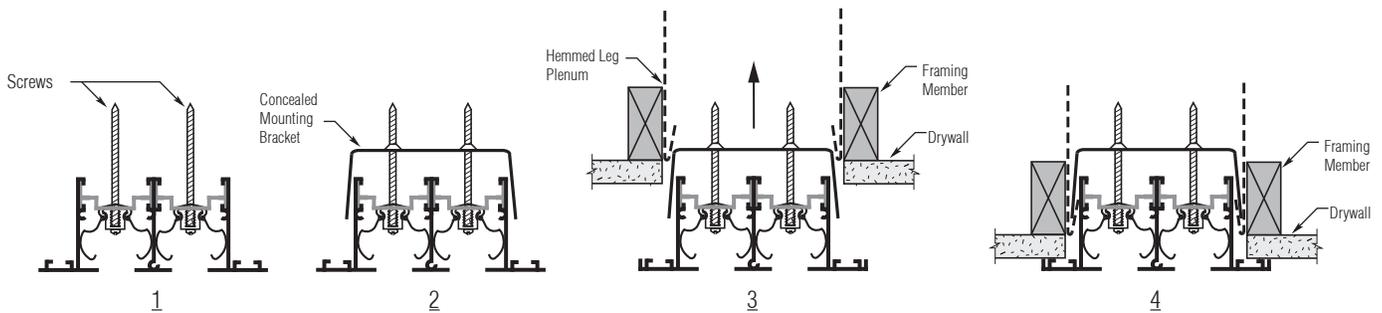
Step B.



Step C.

D. Follow these steps on how to install the concealed mounting bracket.

1. Spread pattern diffusers and insert the supplied screws through the diffuser spacer.
2. Thread screw through mounting bracket to attach it to the diffuser.
3. Lift and push diffuser section into place until mounting brackets spring into hemmed edge.
4. Secure with concealed mounting brackets provided using a flat head screw driver, then tighten until diffuser is flush with ceiling.



Step D.

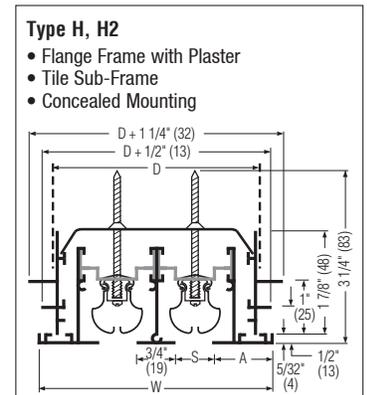
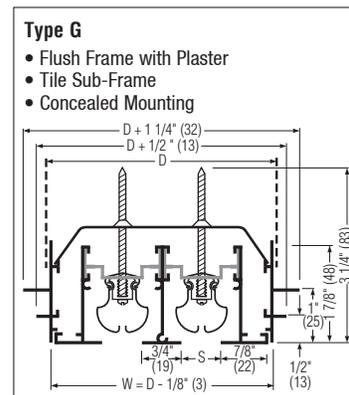
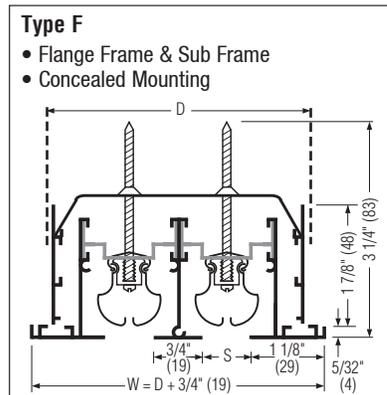
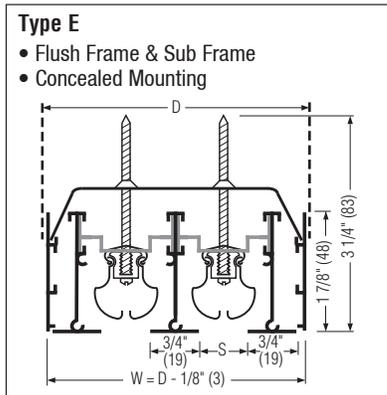
E. In case of multiple sections. Use alignment strips to join additional diffuser sections together in-line and check ends for flushness.

Note: Leave a 1/8" (3) gap to allow for thermal expansion between sections longer than 12 feet (3658).

F. Adjust diffuser pattern controllers to achieve desired flow (reference page 11 for pattern illustrations)

## 2c. Installation of frame type E, F, G and H.

A. Frame ceiling opening based on the recommended dimensions. Ceiling opening will be based on the duct width  $D + 1/8"$  (3), with nominal length based on endcaps. Consult the measurement tables on page 13 & 14 for more details.



### Duct Width D Dimension:

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
E	1	2 1/4"	2 1/2"	2 3/4"	3 1/4"
	2	3 1/2"	4"	4 1/2"	5 1/2"
	3	4 3/4"	5 1/2"	6 1/4"	7 3/4"
	4	6"	7"	8"	10"
	5	7 1/4"	8 1/2"	9 3/4"	12 1/4"
	6	8 1/2"	10"	11 1/2"	14 1/2"
	7	9 3/4"	11 1/2"	13 1/4"	16 3/4"
	8	11"	13"	15"	19"
	9	12 1/4"	14 1/2"	16 3/4"	21 1/4"
	10	13 1/2"	16"	18 1/2"	23 1/2"

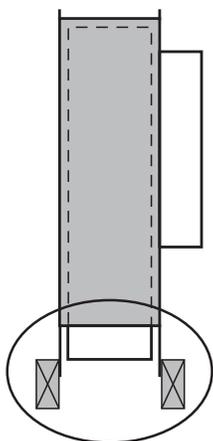
Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
F, H, H2	1	2"	2 1/4"	2 1/2"	3"
	2	3 1/4"	3 3/4"	4 1/4"	5 1/4"
	3	4 1/2"	5 1/4"	6"	7 1/2"
	4	5 3/4"	6 3/4"	7 3/4"	9 3/4"
	5	7"	8 1/4"	9 1/2"	12"
	6	8 1/4"	9 3/4"	11 1/4"	14 1/4"
	7	9 1/2"	11 1/4"	13"	16 1/2"
	8	10 3/4"	12 3/4"	14 3/4"	18 3/4"
	9	12"	14 1/4"	16 1/2"	21"
	10	13 1/4"	15 3/4"	18 1/4"	23 1/4"

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
G	1	2 1/2"	2 3/4"	3"	3 1/2"
	2	3 3/4"	4 1/4"	4 3/4"	5 3/4"
	3	5"	5 3/4"	6 1/2"	8"
	4	6 1/4"	7 1/4"	8 1/4"	10 1/4"
	5	7 1/2"	8 3/4"	10"	12 1/2"
	6	8 3/4"	10 1/4"	11 3/4"	14 3/4"
	7	10"	11 3/4"	13 1/2"	17"
	8	11 1/4"	13 1/4"	15 1/4"	19 1/4"
	9	12 1/2"	14 3/4"	17"	21 1/2"
	10	13 3/4"	16 1/4"	18 3/4"	23 3/4"

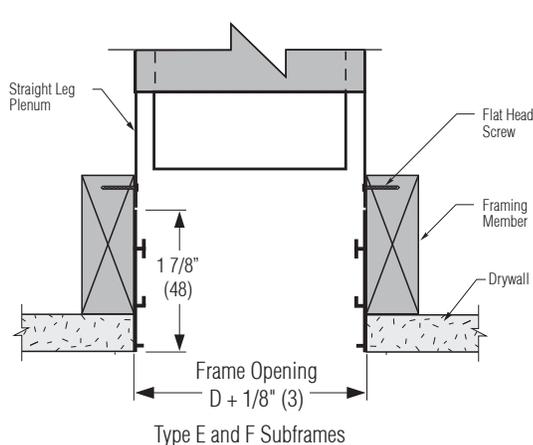
B. Install Model 5300 Plenum, use a straight leg plenum frame. Secure plenum to framing member as required by local building codes. You must allow at least 1 7/8" (48) of space between the face of the drywall and the plenum leg to fit the subframe.

Note: The plenum must be mounted to the ceiling prior to installing the diffuser since the opening will be too small for the plenum to be installed after.

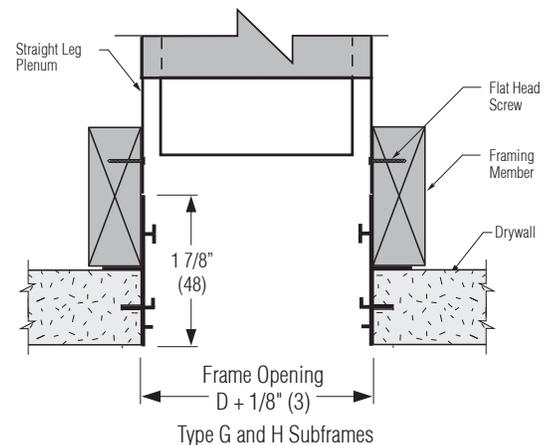
C. Install subframe by securing it to the framing member. Install the drywall, finish and paint.



Step B.

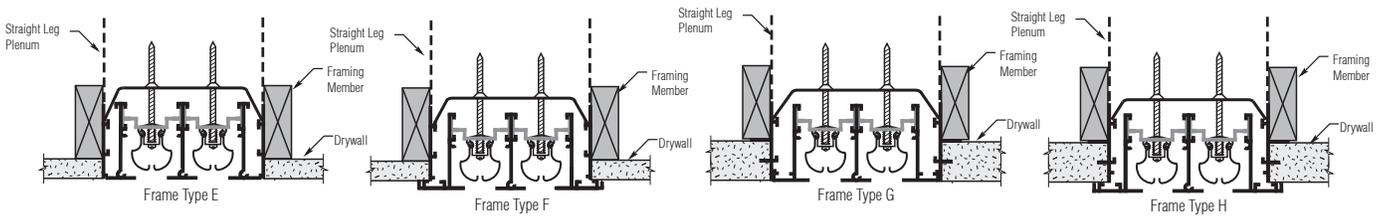
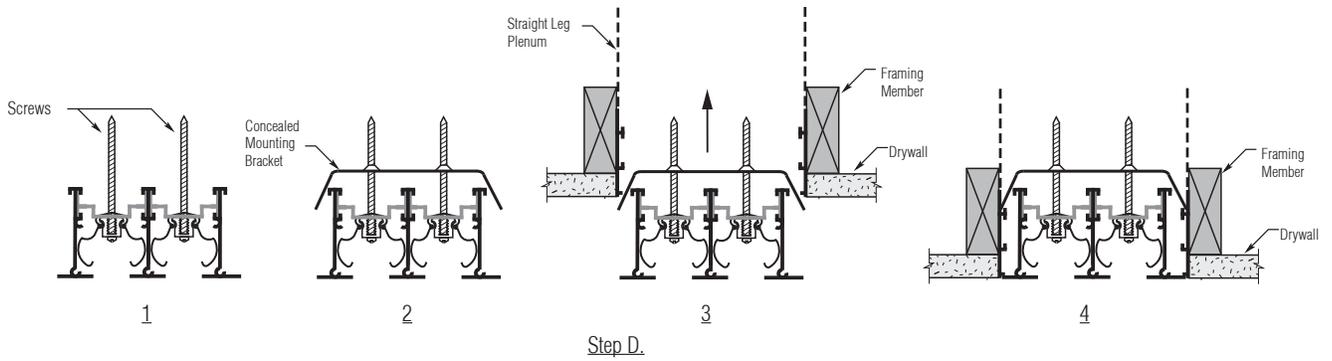


Step C.



D. Follow these steps on how to install the concealed mounting bracket.

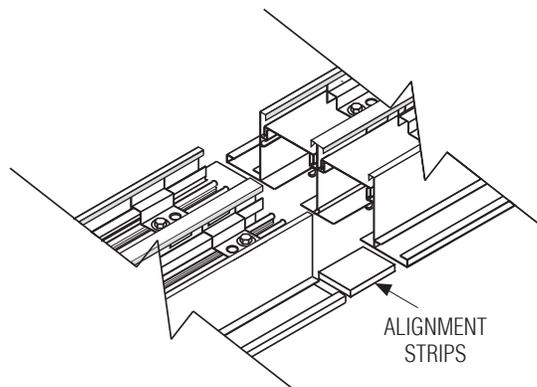
1. Spread pattern diffusers and insert the supplied screws through the diffuser spacer.
2. Thread screw through mounting bracket to attach it to the diffuser.
3. Lift and push diffuser section into place until mounting brackets spring into hemmed edge.
4. Secure with concealed mounting brackets provided using a flat head screw driver, then tighten until diffuser is flush with ceiling.



E. In case of multiple sections. Use alignment strips to join additional diffuser sections together in-line and check ends for flushness.

Note: Leave a 1/8" (3) gap to allow for thermal expansion between sections longer than 12 feet (3658).

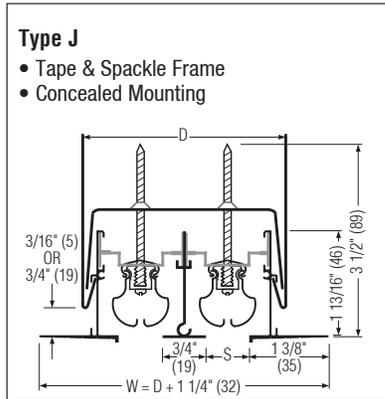
F. Adjust diffuser pattern controllers to achieve desired flow (reference page 11 for pattern illustrations)



Step E.

## 2d. Installation of frame type J.

A. Frame ceiling opening based on the recommended dimensions. Ceiling opening will be based on the duct width  $D + 1/8"$  (3), with nominal length based on endcaps. Consult the measurement tables on page 13 & 14 for more details.



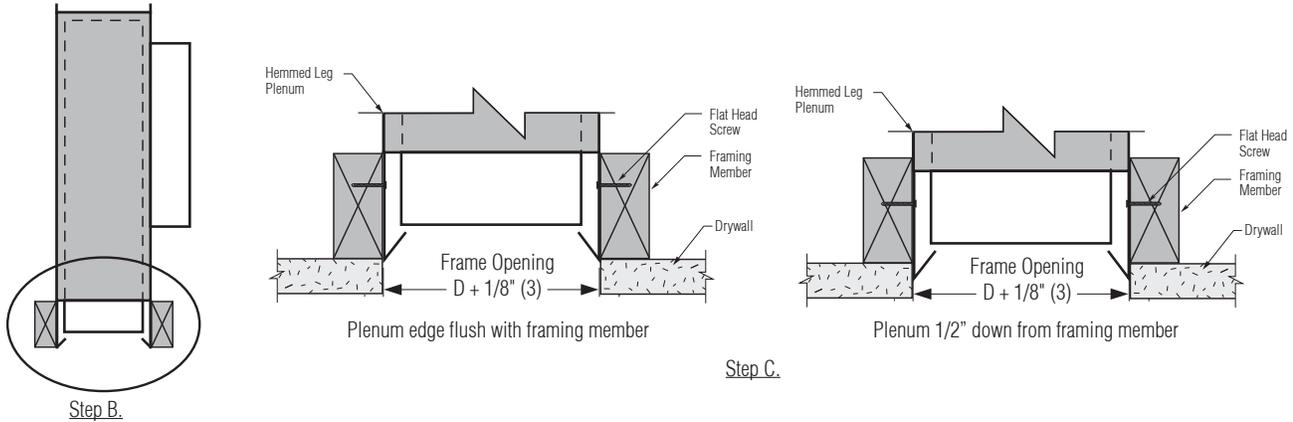
### Duct Width D Dimension:

Frame Type	No. of Slots	5050 5050R	5075 5075R	5010 5010R	5015 5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
J, N	1	2"	2 1/4"	2 1/2"	3"
	2	3 1/4"	3 3/4"	4 1/4"	5 1/4"
	3	4 1/2"	5 1/4"	6"	7 1/2"
	4	5 3/4"	6 3/4"	7 3/4"	9 3/4"
	5	7"	8 1/4"	9 1/2"	12"
	6	8 1/4"	9 3/4"	11 1/4"	14 1/4"
	7	9 1/2"	11 1/4"	13"	16 1/2"
	8	10 3/4"	12 3/4"	14 3/4"	18 3/4"
	9	12"	14 1/4"	16 1/2"	21"
	10	13 1/4"	15 3/4"	18 1/4"	23 1/4"

B. Install Model 5300 Plenum, use a hemmed leg plenum frame. Secure plenum to framing member as required by local building codes.

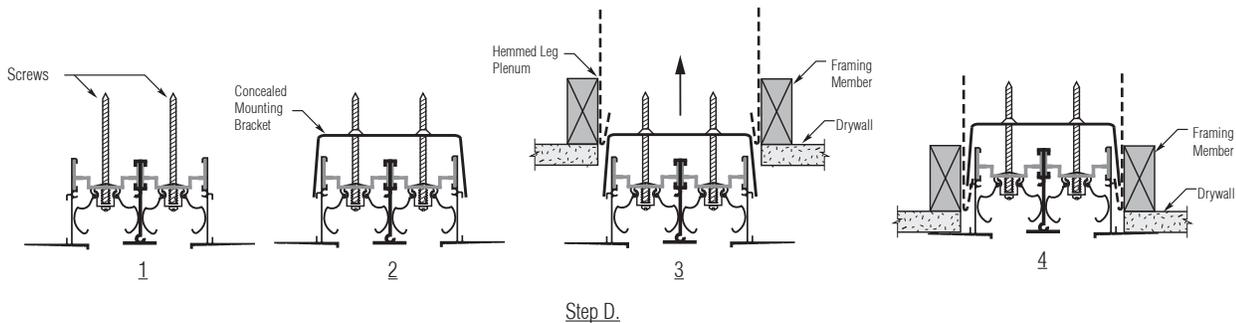
Note: The plenum must be mounted to the ceiling prior to installing the diffuser since the opening will be too small for the plenum to be installed after.

C. Install drywall to ceiling, finish and paint.



D. Follow these steps on how to install the concealed mounting bracket.

1. Spread pattern diffusers and insert the supplied screws through the diffuser spacer.
2. Thread screw through mounting bracket to attach it to the diffuser.
3. Lift and push diffuser section into place until mounting brackets spring into hemmed edge.
4. Secure with concealed mounting brackets provided using a flat head screw driver, then tighten until diffuser is flush with ceiling.



E. In case of multiple sections. Use alignment strips to join additional diffuser sections together in-line and check ends for flushness.

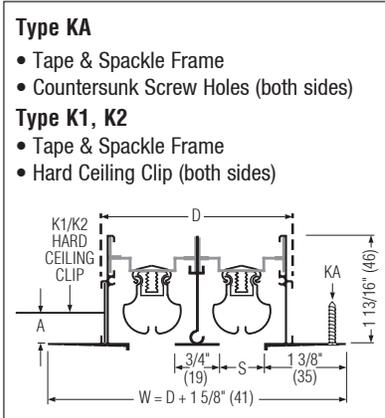
Note: Leave a 1/8" (3) gap to allow for thermal expansion between sections longer than 12 feet (3658).

F. Carry out the surface finishing procedure for tape and spackle frames (J, K1, K2, and KA) on page 10.

G. Adjust diffuser pattern controllers to achieve desired flow (reference page 11 for pattern illustrations)

## 2e. Installation of frame type K1, K2 and KA.

A. Frame ceiling opening based on the recommended dimensions. Ceiling opening will be based on the duct width  $D + 1/8"$  (3), with nominal length based on endcaps. Consult the measurement tables on page 13 & 14 for more details.



### Duct Width D Dimension:

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R $S = 1/2"$	5075R $S = 3/4"$	5010R $S = 1"$	5015R $S = 1 1/2"$
KA, K1 K2	1	1 5/8"	1 7/8"	2 1/8"	2 5/8"
	2	2 7/8"	3 3/8"	3 7/8"	4 7/8"
	3	4 1/8"	4 7/8"	5 5/8"	7 1/8"
	4	5 3/8"	6 3/8"	7 3/8"	9 3/8"
	5	6 5/8"	7 7/8"	9 1/8"	11 5/8"
	6	7 7/8"	9 3/8"	10 7/8"	13 7/8"
	7	9 1/8"	10 7/8"	12 5/8"	16 1/8"
	8	10 3/8"	12 3/8"	14 3/8"	18 3/8"
	9	11 5/8"	13 7/8"	16 1/8"	20 5/8"
	10	12 7/8"	15 3/8"	17 7/8"	22 7/8"

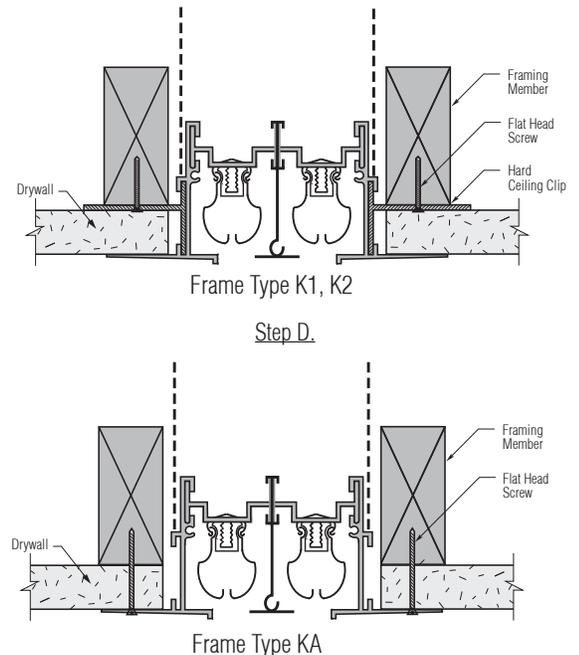
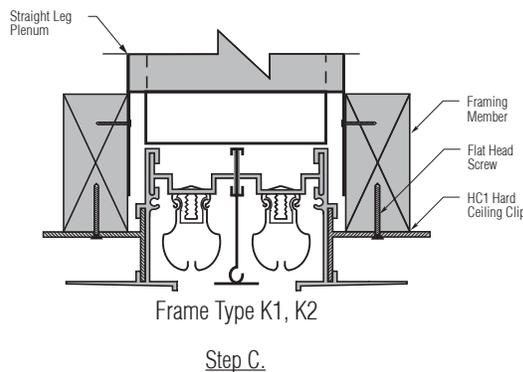
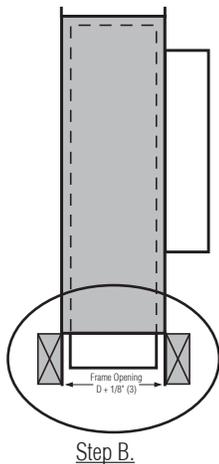
B. Install Model 5300 Plenum, use a straight leg plenum frame. Secure plenum to framing member as required by local building codes.

Note: The plenum must be mounted to the ceiling prior to installing the diffuser since the opening will be too small for the plenum to be installed after.

C. For Type K1 and K2 frames, Insert appropriate hard ceiling (HC) clips into the diffuser's lower outside rail niches at maximum 12" (305) centers. For Type KA skip to step D.

D. Install drywall to ceiling, but do not finish it.

For Type KA frame, after the drywall has been installed, but not finished, secure the diffuser through the drywall and onto the framing member using the frames countersunk screw holes.



E. In case of multiple sections. Use alignment strips to join additional diffuser sections together in-line and check ends for flushness.

Note: Leave a  $1/8"$  (3) gap to allow for thermal expansion between sections longer than 12 feet (3658).

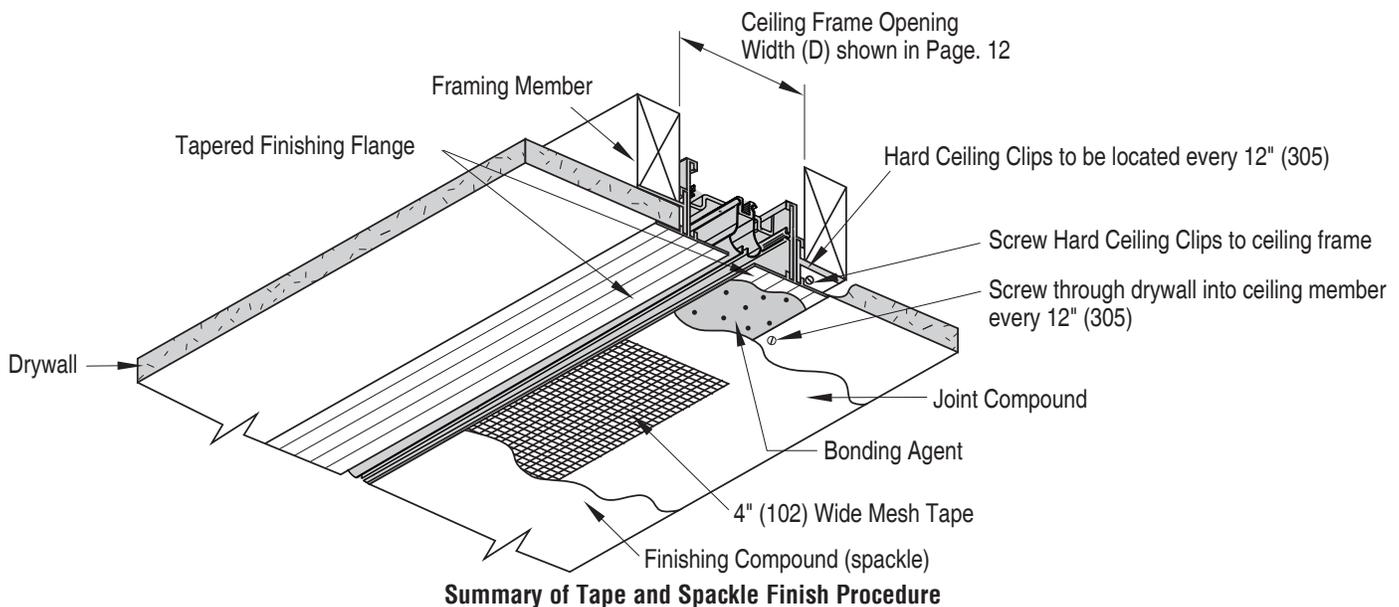
F. Carry out the surface finishing procedure for tape and spackle frames (J, K1, K2, and KA) on page 10.

G. Adjust diffuser pattern controllers to achieve desired flow (reference page 11 for pattern illustrations)

### 3. Surface Finishing Procedure (Frame Types J, KA, K1, K2)

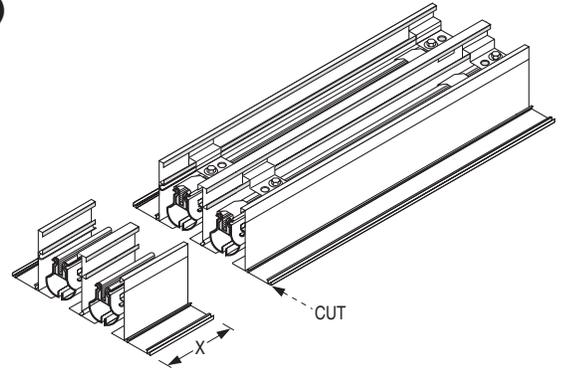
#### (If Applicable)

- A. Clean and degrease tapered border with cleaner/degreaser (e.g. Pure Strength by Rust-Oleum). Continue to step B.
- B. Apply a bonding agent (e.g. Plaster Weld by Larsen Products Corp.) to tapered border and allow to dry minimum 1 hour or to manufacturer's instructions.
- C. Apply a first coat of joint compound (e.g. Durabond by US Gypsum) onto diffuser flange and extend 3" (76) from edge of flange onto drywall. **Tip:** For frame border style K, the majority of the flange is covered by the drywall, so extend compound 4" (102) from edge of exposed flange.
- D. Embed 4" (102) wide mesh tape into joint compound and add another layer of joint compound atop the mesh tape and smooth. Let dry completely before moving to the next step. **Tip:** Be sure to eliminate all air bubbles from mesh tape and overlap onto drywall to assure best results, but do not extend tape into slot opening of the diffuser.
- E. Apply minimum two coats of standard finish compound (spackle), letting each dry completely and smooth each coat with fine grit sand paper until flush with drywall. **Tip:** Use wetted sponge for very rough areas of spackle and finish with fine grit sand paper.
- F. Apply primer to flush finishing compound and paint as scheduled.
- G. **DO NOT** run HVAC system before allotting enough time for compounds to cure. Doing so could cause compound to be more prone to cracking.



## Diffuser Field Cutting Procedure - Trimming (6" or less)

- Standard Model 5000 or 5000R can be field-cut. If "X" is less than 3" (76) at either end (6" [152] total), Do not cut pass the factory spacer.
- Stabilize the diffuser for the cut by inserting a 1/2" dowel into center of each pattern controller and wood blocks or dowels on the outside of the pattern controllers.
- With a fine tooth, high speed carbon steel metal cutting blade, trim up to 3" from each end of the diffuser. Apply lubricant while cutting.

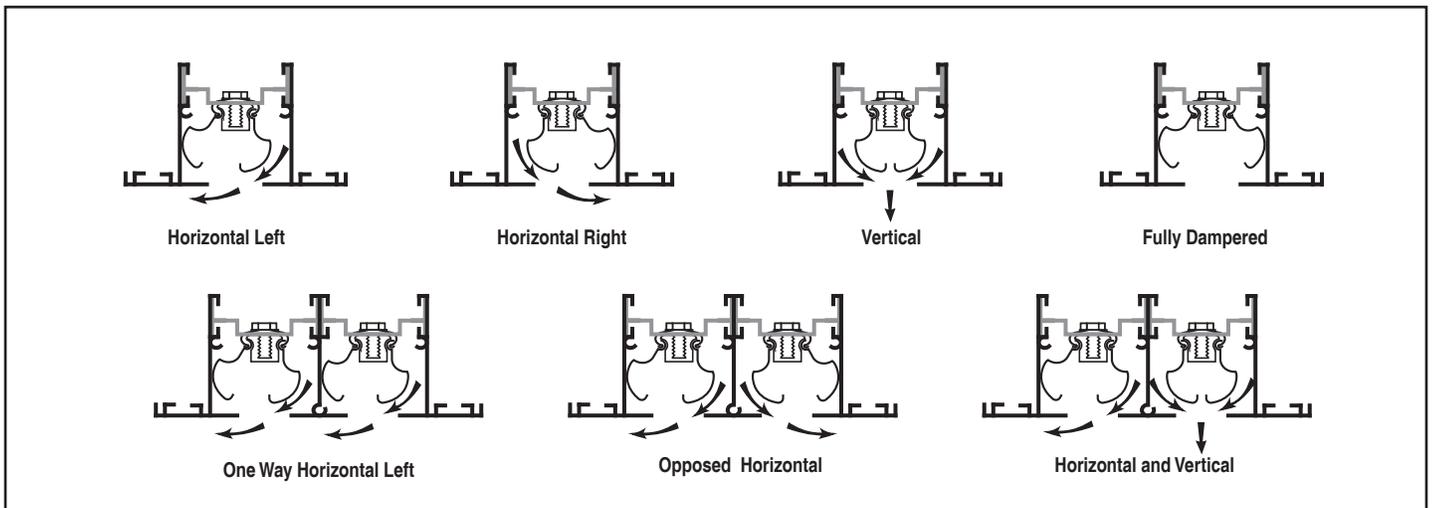


## Patten Controller Adjustable Instructions

### Model Series 5000 Pattern Controllers

Models: 5050 1/2" (13) Slot      5010 1" (25) Slot  
5075 3/4" (19) Slot      5015 1 1/2" (38) Slot

Model Series 5000 provides architectural excellence and outstanding performance flexibility. Available in four different slot opening widths, a range of 1 to 10 slots and a wide choice of border/frame styles that co-ordinate with ceiling and installation details. They feature 'ice tong' style individual pattern controllers in each slot that not only offer a 180° air pattern adjustment, but can also be used to dampen airflow. Designed primarily for ceiling and high sidewall installation, they are eminently suited to, and recommended for, VAV applications. They maintain a tight and stable horizontal air pattern over a wide range of air volumes by utilizing the maximum ceiling coanda effect. Also commonly used in overhead heating applications, the versatile pattern controllers allow vertical projection of heated air to meet almost any perimeter condition.

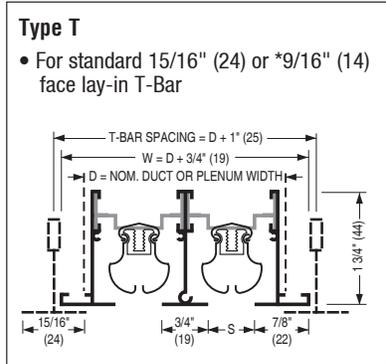


## Installation Practices For Lay In Applications

Following are the recommended instructions for Model Series 5000 Diffuser installation. It is the responsibility of the installing contractor to install in accordance with local codes and regulations.

### Installation of frame type T.

A. Install ceiling grid (by others), type T frames are designed to integrate with standard exposed grid T-Bar Ceiling System. Available in module lengths Imperial module lengths: 20", 24", 48" and 60" and metric module lengths: 500, 600, 1200 and 1500 mm.

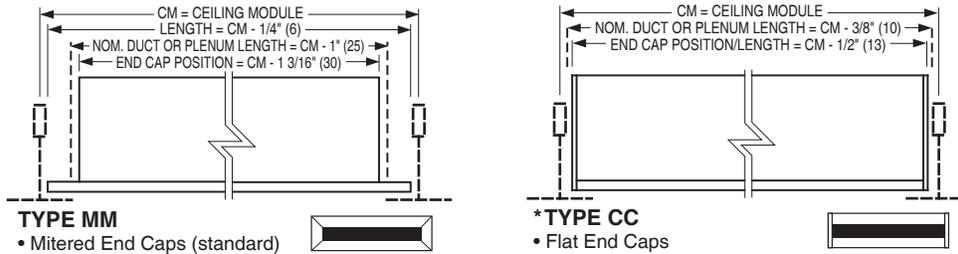


### Duct Width D Dimension:

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
T	1	1 1/2"	1 3/4"	2"	2 1/2"
	2	2 3/4"	3 1/4"	3 3/4"	4 3/4"
	3	4"	4 3/4"	5 1/2"	7"
	4	5 1/4"	6 1/4"	7 1/4"	9 1/4"
	5	6 1/2"	7 3/4"	9"	11 1/2"
	6	7 3/4"	9 1/4"	10 3/4"	13 3/4"
	7	9"	10 3/4"	12 1/2"	16"
	8	10 1/4"	12 1/4"	14 1/4"	18 1/4"
	9	11 1/2"	13 3/4"	16"	20 1/2"
	10	12 3/4"	15 1/4"	17 3/4"	22 3/4"

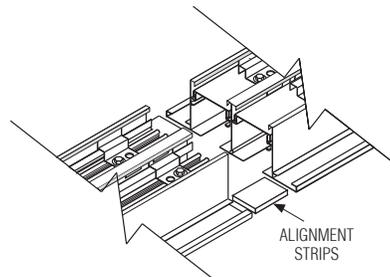
- B. Install Model 5300 Plenum, straight leg plenum frame. Secure plenum to diffuser required by local building codes, this can be done before raising the unit into the ceiling grid.
- C. Mount diffuser onto grid module.

### END CAP CONFIGURATIONS



\* Type CC Flat Endcaps are not recommended for use with 9/16" (14) flat face T-bar.

- D. Suspend diffuser and plenum (if applicable) with hanger wire to the building structure.  
Note: for seismic applications, support equipment in accordance to local seismic regulations.
- E. In case of multiple sections. Use alignment strips to join additional diffuser sections together in-line and check ends for flushness.  
Note: Leave a 1/8" (3) gap to allow for thermal expansion between sections longer than 12 feet (3658).
- F. Adjust diffuser pattern controllers to achieve desired flow (reference page 11 for pattern illustrations)



Step E.

**DUCT WIDTH D DIMENSION:  
S = SLOT WIDTH (IMPERIAL UNITS – INCHES)**

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
A, B	1	5/8"	1 7/8"	2 1/8"	2 5/8"
	2	2 7/8"	3 3/8"	3 7/8"	4 7/8"
	3	4 1/8"	4 7/8"	5 5/8"	7 1/8"
	4	5 3/8"	6 3/8"	7 3/8"	9 3/8"
	5	6 5/8"	7 7/8"	9 1/8"	11 5/8"
	6	7 7/8"	9 3/8"	10 7/8"	13 7/8"
	7	9 1/8"	10 7/8"	12 5/8"	16 1/8"
	8	10 3/8"	12 3/8"	14 3/8"	18 3/8"
	9	11 5/8"	13 7/8"	16 1/8"	20 5/8"
	10	12 7/8"	15 3/8"	17 7/8"	22 7/8"

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
C, D	1	2"	2 1/4"	2 1/2"	3"
	2	3 1/4"	3 3/4"	4 1/4"	5 1/4"
	3	4 1/2"	5 1/4"	6"	7 1/2"
	4	5 3/4"	6 3/4"	7 3/4"	9 3/4"
	5	7"	8 1/4"	9 1/2"	12"
	6	8 1/4"	9 3/4"	11 1/4"	14 1/4"
	7	9 1/2"	11 1/4"	13"	16 1/2"
	8	10 3/4"	12 3/4"	14 3/4"	18 3/4"
	9	12"	14 1/4"	16 1/2"	21"
	10	13 1/4"	15 3/4"	18 1/4"	23 1/4"

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
E	1	2 1/4"	2 1/2"	2 3/4"	3 1/4"
	2	3 1/2"	4"	4 1/2"	5 1/2"
	3	4 3/4"	5 1/2"	6 1/4"	7 3/4"
	4	6"	7"	8"	10"
	5	7 1/4"	8 1/2"	9 3/4"	12 1/4"
	6	8 1/2"	10"	11 1/2"	14 1/2"
	7	9 3/4"	11 1/2"	13 1/4"	16 3/4"
	8	11"	13"	15"	19"
	9	12 1/4"	14 1/2"	16 3/4"	21 1/4"
	10	13 1/2"	16"	18 1/2"	23 1/2"

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
F, H, H2	1	2"	2 1/4"	2 1/2"	3"
	2	3 1/4"	3 3/4"	4 1/4"	5 1/4"
	3	4 1/2"	5 1/4"	6"	7 1/2"
	4	5 3/4"	6 3/4"	7 3/4"	9 3/4"
	5	7"	8 1/4"	9 1/2"	12"
	6	8 1/4"	9 3/4"	11 1/4"	14 1/4"
	7	9 1/2"	11 1/4"	13"	16 1/2"
	8	10 3/4"	12 3/4"	14 3/4"	18 3/4"
	9	12"	14 1/4"	16 1/2"	21"
	10	13 1/4"	15 3/4"	18 1/4"	23 1/4"

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
G	1	2 1/2"	2 3/4"	3"	3 1/2"
	2	3 3/4"	4 1/4"	4 3/4"	5 3/4"
	3	5"	5 3/4"	6 1/2"	8"
	4	6 1/4"	7 1/4"	8 1/4"	10 1/4"
	5	7 1/2"	8 3/4"	10"	12 1/2"
	6	8 3/4"	10 1/4"	11 3/4"	14 3/4"
	7	10"	11 3/4"	13 1/2"	17"
	8	11 1/4"	13 1/4"	15 1/4"	19 1/4"
	9	12 1/2"	14 3/4"	17"	21 1/2"
	10	13 3/4"	16 1/4"	18 3/4"	23 3/4"

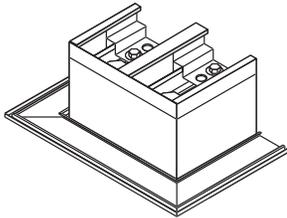
Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
J, N	1	2"	2 1/4"	2 1/2"	3"
	2	3 1/4"	3 3/4"	4 1/4"	5 1/4"
	3	4 1/2"	5 1/4"	6"	7 1/2"
	4	5 3/4"	6 3/4"	7 3/4"	9 3/4"
	5	7"	8 1/4"	9 1/2"	12"
	6	8 1/4"	9 3/4"	11 1/4"	14 1/4"
	7	9 1/2"	11 1/4"	13"	16 1/2"
	8	10 3/4"	12 3/4"	14 3/4"	18 3/4"
	9	12"	14 1/4"	16 1/2"	21"
	10	13 1/4"	15 3/4"	18 1/4"	23 1/4"

Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
KA, K1 K2	1	1 5/8"	1 7/8"	2 1/8"	2 5/8"
	2	2 7/8"	3 3/8"	3 7/8"	4 7/8"
	3	4 1/8"	4 7/8"	5 5/8"	7 1/8"
	4	5 3/8"	6 3/8"	7 3/8"	9 3/8"
	5	6 5/8"	7 7/8"	9 1/8"	11 5/8"
	6	7 7/8"	9 3/8"	10 7/8"	13 7/8"
	7	9 1/8"	10 7/8"	12 5/8"	16 1/8"
	8	10 3/8"	12 3/8"	14 3/8"	18 3/8"
	9	11 5/8"	13 7/8"	16 1/8"	20 5/8"
	10	12 7/8"	15 3/8"	17 7/8"	22 7/8"

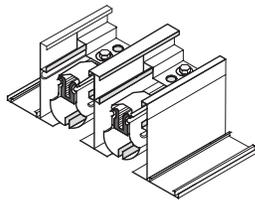
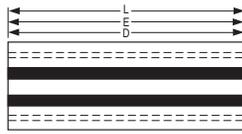
Frame Type	No. of Slots	5050	5075	5010	5015
		5050R	5075R	5010R	5015R
		S = 1/2"	S = 3/4"	S = 1"	S = 1 1/2"
M	1	1 3/8"	1 5/8"	1 7/8"	2 3/8"
	2	2 5/8"	3 1/8"	3 5/8"	4 5/8"
	3	3 7/8"	4 5/8"	5 3/8"	6 7/8"
	4	5 1/8"	6 1/8"	7 1/8"	9 1/8"
	5	6 3/8"	7 5/8"	8 7/8"	11 3/8"
	6	7 5/8"	9 1/8"	10 5/8"	13 5/8"
	7	8 7/8"	10 5/8"	12 3/8"	15 7/8"
	8	10 1/8"	12 1/8"	14 1/8"	18 1/8"
	9	11 3/8"	13 5/8"	15 7/8"	20 3/8"
	10	12 5/8"	15 1/8"	17 5/8"	22 5/8"

## END CAP CONFIGURATIONS FOR VARIOUS MOUNTINGS:

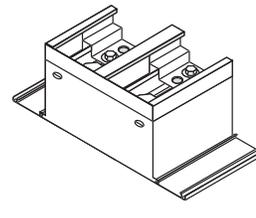
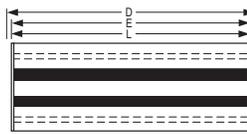
**M - Mitered End Cap (Std.)**



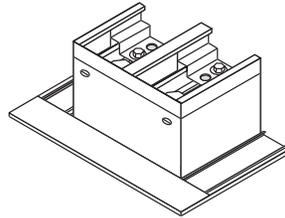
**O - Open End**



**C - Flat End Cap**



**F - Flanged End Cap\*\***



D = Duct length E = End cap position L = Overall length

## OVERALL LENGTH DIMENSIONS AND END CAP POSITION:

Frame Type	M		F		M		M		O		O		C	
	E	L	E	L	E	L†	E	L†	E	L	E	L	E	L
A, B	D - 1/2" (13)	D+1" (25)	D - 1/2" (13)	D+1 1/2" (38)	D - 1/4" (6)	D+1/2" (13)	D - 3/16" (5)	D+9/16" (14)	D	D	D - 1/16" (2)	D - 1/16" (2)	D - 1/8" (3)	D - 1/8" (3)
C	D - 1/2" (13)	D+1" (25)	D - 1/2" (13)	D+1 1/2" (38)	D - 1/4" (6)	D+1/2" (13)	D - 3/16" (5)	D+9/16" (14)	D	D	D - 1/16" (2)	D - 1/16" (2)	D - 1/8" (3)	D - 1/8" (3)
D	D - 1/2" (13)	D+1/2" (13)	D - 1/2" (13)	D+1" (25)	D - 1/4" (6)	D+1/4" (6)	D - 3/16" (5)	D+7/16" (11)	D	D	D - 1/16" (2)	D - 1/16" (2)	D - 1/8" (3)	D - 1/8" (3)
E	D - 7/8" (22)	D	N/A	N/A	D - 7/16" (11)	D	D - 3/8" (10)	D+1/16" (2)	D	D	D - 1/16" (2)	D - 1/16" (2)	D - 1/8" (3)	D - 1/8" (3)
F, H	D - 3/4" (19)	D+3/4" (19)	D - 3/4" (19)	D+1 1/4" (32)	D - 3/8" (10)	D+3/8" (10)	D - 5/16" (8)	D+7/16" (11)	D	D	D - 1/16" (2)	D - 1/16" (2)	D - 1/8" (3)	D - 1/8" (3)
H2	D - 3/4" (19)	D+1/4" (6)	D - 3/4" (19)	D+7/8" (22)	D - 3/8" (10)	D+1/8" (3)	D - 5/16" (8)	D+5/16" (8)	D	D	D - 1/16" (2)	D - 1/16" (2)	D - 1/8" (3)	D - 1/8" (3)
G	D - 1 1/8" (29)	D	D - 1 3/8" (35)	D	D - 9/16" (14)	D	D - 1/2" (13)	D+1/16" (2)	D	D	D - 1/16" (2)	D - 1/16" (2)	D - 1/8" (3)	D - 1/8" (3)

† Configurations FO and FC: Add 1/4" (6) for frame types A, B, C, D, F, G, H and H2.

Frame Type	M		M		O		O		O		C		C	
	E	L	E	L	E	L	E	L	E	L	E	L	E	L
J	D - 3/4" (19)	D+3/4" (19)	D - 3/8" (10)	D+3/8" (10)	D - 1/16" (2)	D - 1/16" (2)	D	D	D - 1/16" (2)	D - 1/16" (2)	D - 1/8" (3)	D - 1/8" (3)	D - 1/8" (3)	D - 1/8" (3)
KA, K1, K2	D - 1/2" (13)	D+1" (25)	D - 1/4" (6)	D+1/2" (13)	D - 1/16" (2)	D - 1/16" (2)	D	D	D - 1/16" (2)	D - 1/16" (2)	D - 1/8" (3)	D - 1/8" (3)	D - 1/8" (3)	D - 1/8" (3)
M*, N*	D - 1/16" (2)	D - 1/16" (2)	D - 1/32" (1)	D - 1/32" (1)	D - 1/16" (2)	D - 1/16" (2)	D	D	D - 1/16" (2)	D - 1/16" (2)	D - 1/8" (3)	D - 1/8" (3)	D - 1/8" (3)	D - 1/8" (3)

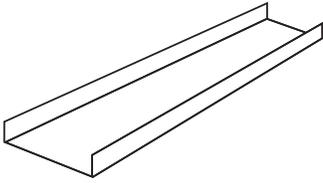
\* These types have a flangeless mitered end cap which is the same extrusion profile as the frame.

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## Accessories/Parts list

Note: For more detailed information, refer to Nailor website.

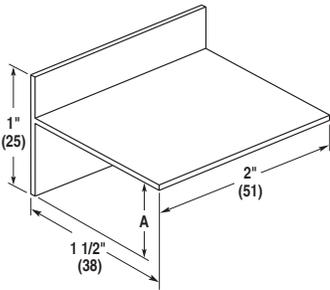
### Blank-Offs



#### 5050BO, 5075BO, 5010BO, 5015BO

Corrosion resistant steel, painted flat black.  
Fits in neck of diffuser. Provided in 62"  
(1829) lengths. Field cut to length.

### Mounting Clips



#### HC1, HC5

The HC1 and HC5 Hard Ceiling Clip can be used to mount the Model series 5000 slot diffusers assembly with frame/ border types **K1**, **K2**, where 5/8" (16) or 1/2" (13) gypsum wallboard (drywall) is used.

	A Dim.
HC1	5/8" (16)
HC5	1/2" (13)



Houston, Texas  
Tel: 281-590-1172  
Fax: 281-590-3086

Las Vegas, Nevada  
Tel: 702-648-5400  
Fax: 702-638-0400

Toronto, Canada  
Tel: 416-744-3300  
Fax: 416-744-3360

Calgary, Canada  
Tel: 403-279-8619  
Fax: 403-279-5035

Nailor offers a selection of standard colors and finishes available on our grilles, registers and diffusers. For painted finishes, our state-of-the-art paint systems provide environmentally friendly finishing solutions with uniform coverage and coating thickness. The result is an exceptionally durable finish that resists scratching, corrosion and general wear. Additional facilities for special requirements, as well as a selection of anodized or brushed finishes, complete our ability to provide unmatched beauty and durability for any application.

**NAILOR POWDER COAT PROPERTIES**

FILM THICKNESS	2.0 to 3.0 mils
HARDNESS	2 H
IMPACT RESISTANCE	Direct: 160 inch - lbs. Reverse 160 inch - lbs.
SALT SPRAY	1000 hours

**ELECTROCOATING PROPERTIES**

FILM THICKNESS	.8 to 1.2 mils
HARDNESS	HB TO H
IMPACT RESISTANCE	80 inch - lbs
SALT SPRAY	100 hours


**POWDER COAT**

Nailor's powder coat is a high-tech thermosetting polyester powder coating with superior physical properties that provide excellent color and gloss retention. The finish offers extreme durability and hardness that resists scratching, chipping and general wear. Surface preparation includes degreasing and a chemical cleaning followed by a clean rinse before a final powder coat finish is applied and baked. The environmentally friendly Nailor powder coat system assures uniform coverage and color consistency resulting in a long lasting superior finish. Colors, including simulated anodizing, which is far more economical than color anodizing, can be selected from Nailor's standard color chart or non-standard colors and can be matched from sample chips provided to Nailor.

**ELECTROCOATING**

E-Coat is an environmentally friendly coating that provides complete coverage and a wide range of performance properties, formulated to meet corrosion, durability and other performance specifications. Electrocoating is a highly automated process in which paint is electrically deposited onto a metal foundation. Film build thickness is uniform and overall application efficiencies are in excess of 90%. Paint is consistent on all part-to-part surfaces, preventing sags, runs or drips. E-Coat offers flexibility, better first yield pass and quicker production times compared to other forms of paint applications. Electrocoating is an excellent solution that offers superior properties and uniform finish.

**CLEAR ANODIZING** (Aluminum products only)

Clear anodizing is a clear oxide coating that exemplifies an aluminum surface's natural oxide coating producing a hard, scratch resistant surface that is resistant to general wear and mild chemicals. The process provides a natural looking, virtually maintenance free finish that will endure for many years.

**COLOR ANODIZING** (Aluminum products only)

Color anodizing is an electrolytic process where, after standard anodizing procedures, colored metallic pigments penetrate the oxide surface pores producing a corrosion resistant, colorfast finish. The process results in a natural metallic appearance that requires little maintenance.

**BRUSHED AND CLEAR COAT**

Available on specific aluminum products (consult applicable product page for availability). Surface is brushed to achieve a scratch finish texture before being degreased and chemically cleaned. A clear lacquer coating is then applied to provide a durable protective finish.

**#4 BRUSHED SATIN POLISHED** (Stainless Steel products only)

Surface is polished to ASTM A480 #4 standard to achieve a bright durable finish that is resistant to mild chemicals and corrosion. A final coating is not required due to the inherent anti-corrosion properties of the stainless steel.

**PRIME COAT**

Prime coat provides a stable base for painting in the field. Surface pretreatment includes degreasing and a chemical cleaning before an alkyd prime coat is applied. After a thorough cleaning for dust, etc. that can contaminate the final finish and cause premature flaking or peeling, finish coat should be field applied as soon as possible.

**PAINT PREPARED ALUMINUM** (Aluminum products only)

Allows for field applied paint. Surface preparation includes degreasing and a chemical cleaning followed by a clean rinse. Finish coat should be field applied as soon as possible.

**MILL FINISH**

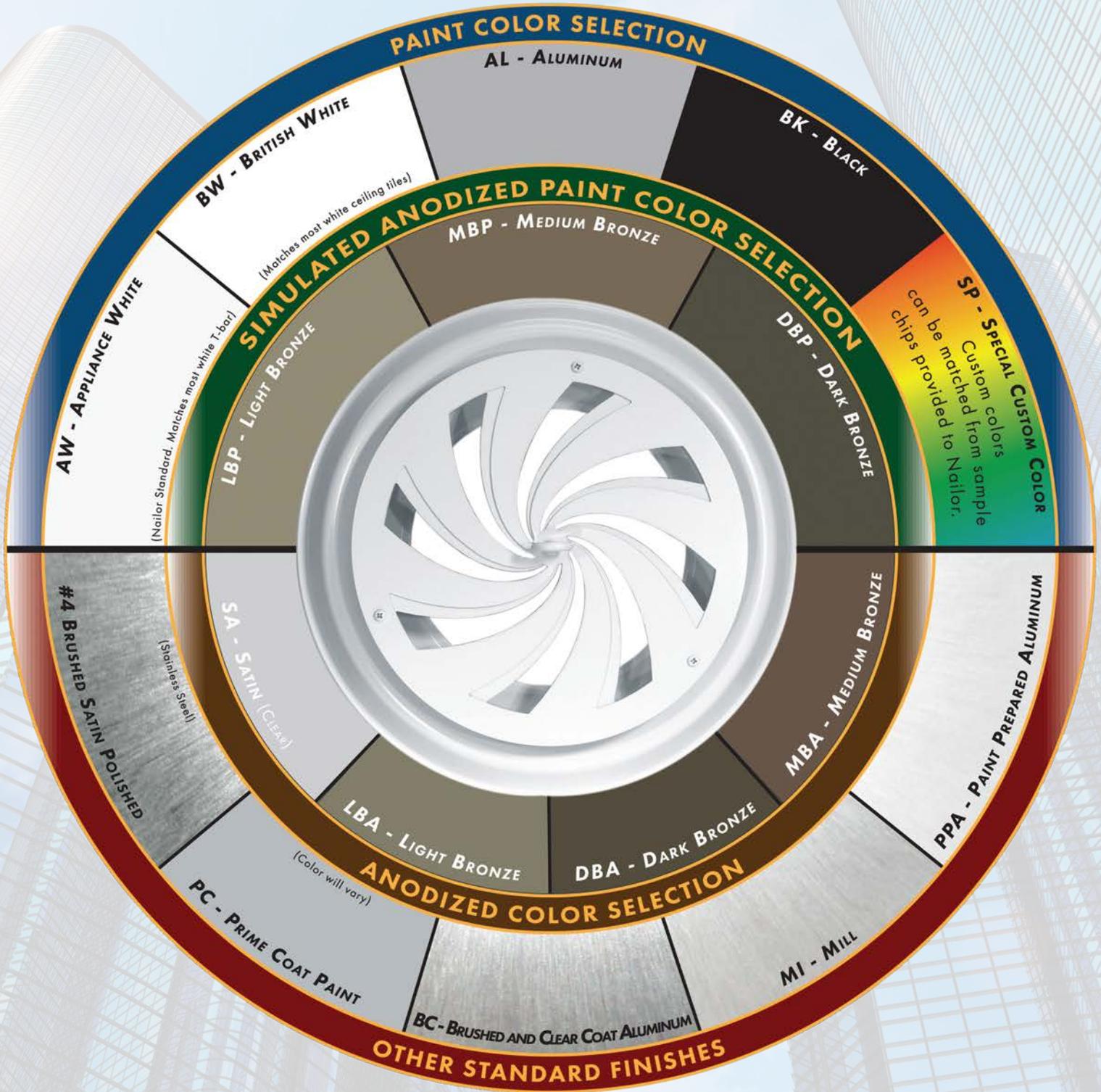
Surface is left untreated and requires cleaning, degreasing, etc. in the field before final finish can be applied if required.



**Nailor**<sup>®</sup>  
Industries Inc.

## STANDARD AND OPTIONAL FINISHES FOR GRILLES AND DIFFUSERS

The following standard colors and finishes are available on applicable Nailor air distribution products. Consult individual product pages for availability



The pictured finishes have been represented as best as possible within printing limitations. However, actual finish may vary. Contact your Nailor representative for a color chip sample on the material specified for a more accurate representation.

**DBK** - Black (for registers ordered with factory mounted dampers) - **BA** - Perforated Diffusers (4300 series only) Appliance White (AW) face with black back pan and pattern controllers.

"Complete Air Control and Distribution Solutions."

WGDSOF2015

[www.nailor.com](http://www.nailor.com)

## PERFORMANCE DATA:

### PLENUM RETURN

#### Model 5050R • 1/2" (13) Slot

No. of Slots	Static Pressure	.011	.024	.045	.070	.108	.184	.279	.421
1	Airflow, CFM/FT.	10	15	20	25	30	40	50	60
	Noise Criteria	-	-	-	20	26	34	39	45
2	Airflow, CFM/FT.	20	30	40	50	60	80	100	120
	Noise Criteria	-	-	-	23	28	37	42	48
3	Airflow, CFM/FT.	30	45	60	75	90	120	150	180
	Noise Criteria	-	-	-	25	31	39	44	50
4	Airflow, CFM/FT.	40	60	80	100	120	160	200	240
	Noise Criteria	-	-	20	26	30	38	45	51
5	Airflow, CFM/FT.	50	75	100	125	150	200	250	300
	Noise Criteria	-	-	21	27	32	40	45	53
6	Airflow, CFM/FT.	60	90	120	150	180	240	300	360
	Noise Criteria	-	-	22	29	33	41	46	53
7	Airflow, CFM/FT.	70	105	140	175	210	280	350	420
	Noise Criteria	-	-	23	29	34	42	47	53
8	Airflow, CFM/FT.	80	120	160	200	240	320	400	480
	Noise Criteria	-	-	23	30	34	43	48	54

#### Models 5075R and 5075TZR • 3/4" (19) Slot

No. of Slots	Static Pressure	.006	.028	.065	.110	.170	.250	.350	.465
1	Airflow, CFM/FT.	10	20	30	40	50	60	70	80
	Noise Criteria	-	-	-	25	30	38	42	46
2	Airflow, CFM/FT.	20	40	60	80	100	120	140	160
	Noise Criteria	-	-	21	29	35	40	46	49
3	Airflow, CFM/FT.	30	60	90	120	150	180	210	240
	Noise Criteria	-	-	23	31	38	42	47	51
4	Airflow, CFM/FT.	40	80	120	160	200	240	280	320
	Noise Criteria	-	-	24	33	38	44	47	52
5	Airflow, CFM/FT.	50	100	150	200	250	300	350	400
	Noise Criteria	-	-	25	33	40	44	48	53
6	Airflow, CFM/FT.	60	120	180	240	300	360	420	480
	Noise Criteria	-	-	26	34	40	45	49	54
7	Airflow, CFM/FT.	70	140	210	280	350	420	490	560
	Noise Criteria	-	-	27	35	40	46	49	54
8	Airflow, CFM/FT.	80	160	240	320	400	480	560	640
	Noise Criteria	-	-	28	36	41	46	49	56

#### Model 5010R • 1" (25) Slot

No. of Slots	Static Pressure	.020	.045	.070	.110	.165	.215	.291	.471
1	Airflow, CFM/FT.	20	30	40	50	60	70	80	100
	Noise Criteria	-	-	-	25	30	34	38	45
2	Airflow, CFM/FT.	40	60	80	100	120	140	160	200
	Noise Criteria	-	-	22	28	33	36	40	48
3	Airflow, CFM/FT.	60	90	120	150	180	210	240	300
	Noise Criteria	-	-	24	30	35	38	43	50
4	Airflow, CFM/FT.	80	120	160	200	240	280	320	400
	Noise Criteria	-	-	25	31	35	40	45	51
5	Airflow, CFM/FT.	100	150	200	250	300	350	400	500
	Noise Criteria	-	-	25	32	37	41	45	51
6	Airflow, CFM/FT.	120	180	240	300	360	420	480	600
	Noise Criteria	-	-	27	33	38	42	47	53
7	Airflow, CFM/FT.	140	210	280	350	420	490	560	700
	Noise Criteria	-	20	28	34	40	42	48	53
8	Airflow, CFM/FT.	160	240	320	400	480	560	640	800
	Noise Criteria	-	20	28	34	40	43	48	54

#### Model 5015R • 1 1/2" (38) Slot

No. of Slots	Static Pressure	.007	.029	.066	.117	.183	.263	.358	.468
1	Airflow, CFM/FT.	20	40	60	80	100	120	140	180
	Noise Criteria	-	-	21	29	33	40	44	48
2	Airflow, CFM/FT.	40	80	120	160	200	240	280	320
	Noise Criteria	-	-	25	33	34	44	48	52
3	Airflow, CFM/FT.	60	120	180	240	300	360	420	480
	Noise Criteria	-	15	26	34	40	45	49	53
4	Airflow, CFM/FT.	80	160	240	320	400	480	560	640
	Noise Criteria	-	17	28	36	42	47	52	55
5	Airflow, CFM/FT.	100	200	300	400	500	600	700	800
	Noise Criteria	-	17	28	36	42	47	52	55
6	Airflow, CFM/FT.	120	240	360	480	600	720	840	960
	Noise Criteria	-	18	29	37	43	48	52	56

#### Performance Notes:

- All pressures are in inches w.g..
- Noise Criteria [NC] values are based on a 10 ft. active section. For other lengths, use the correction factor table show here.
- Dash (-) in space indicates an Noise Criteria [NC] level of less than 15.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2023.

#### Noise Criteria Correction Factors for Various Lengths

Length (ft.)	2	4	6	8	9	10	15	20	25	30
Correction	-8	-5	-4	-2	-1	0	+2	+3	+4	+5

B

LINEAR DIFFUSERS AND BAR GRILLES

## PERFORMANCE DATA:

### SUPPLY • CONTINUOUS PRESSURIZED PLENUM

#### Model 5010 • 1" (25) Slot

No. of Slots	Total Pressure, Horizontal	.004	.016	.036	.065	.098	.138	.192	.245
	Total Pressure, Vertical	.002	.009	.024	.038	.057	.082	.113	.148
1	Airflow, CFM/FT.	10	15	25	30	40	50	55	65
	Throw, Horizontal	1-4-10	3-6-13	8-13-18	10-16-21	13-16-23	16-18-26	18-18-26	18-21-29
	Throw, Vertical	2	8	12	13	15	16	17	18
	Noise Criteria	-	-	18	22	29	34	37	41
2	Airflow, CFM/FT.	20	30	50	60	80	100	110	130
	Throw, Horizontal	3-7-18	5-10-21	13-18-26	16-21-31	18-23-39	21-26-42	23-34-44	26-39-47
	Throw, Vertical	4	10	16	19	20	21	23	25
	Noise Criteria	-	-	21	25	32	37	40	44
3	Airflow, CFM/FT.	30	45	75	90	120	150	165	195
	Throw, Horizontal	5-9-21	8-14-26	16-21-31	18-26-42	23-29-47	26-31-49	29-34-55	31-36-57
	Throw, Vertical	6	11	18	22	25	27	30	31
	Noise Criteria	-	-	23	27	34	39	42	46
4	Airflow, CFM/FT.	40	60	100	120	160	200	220	260
	Throw, Horizontal	8-10-26	12-19-31	18-26-42	21-29-47	26-39-55	29-42-57	31-44-62	34-47-68
	Throw, Vertical	7	13	21	26	29	30	34	36
	Noise Criteria	-	-	24	28	35	40	43	47
5	Airflow, CFM/FT.	50	75	125	150	200	250	275	325
	Throw, Horizontal	10-12-29	16-21-36	20-29-47	23-34-52	31-44-60	39-47-68	42-49-73	44-52-78
	Throw, Vertical	8	15	22	27	30	36	37	40
	Noise Criteria	-	-	25	29	36	41	44	48
6	Airflow, CFM/FT.	60	90	150	180	240	300	330	390
	Throw, Horizontal	11-14-31	18-23-39	21-31-42	26-42-57	39-47-68	42-52-70	44-57-75	47-60-81
	Throw, Vertical	8	17	26	30	34	36	41	44
	Noise Criteria	-	15	26	30	37	42	45	49
7	Airflow, CFM/FT.	70	105	175	210	280	350	385	455
	Throw, Horizontal	12-16-39	20-26-44	26-39-55	29-44-60	42-52-73	47-55-78	49-60-83	52-62-88
	Throw, Vertical	9	18	28	32	37	41	43	48
	Noise Criteria	-	15	26	30	37	42	45	49
8	Airflow, CFM/FT.	80	120	200	240	320	400	440	520
	Throw, Horizontal	13-18-42	21-29-47	26-42-57	34-47-68	47-55-78	49-57-81	55-62-86	57-68-94
	Throw, Vertical	11	20	30	35	40	45	50	51
	Noise Criteria	-	16	27	31	38	43	46	50

#### Noise Criteria Correction Factors for Various Lengths

Length (ft.)	2	4	6	8	9	10	15
Supply	-3	0	+2	+3	+4	+5	+8
Return	0	+3	+4	+6	+7	+8	+10

#### Throw Correction Factors for Various Lengths

Length (ft.)	2	4	6	8	10	12
Multiplier	0.70	1.0	1.25	1.40	1.55	1.70

#### Performance Notes:

- Data is based upon pressurized plenum application (non ducted) with no plenum effect for pressure or sound. Plenums should be sized to achieve equal velocity along the slot length. Keep duct inlet velocities below 700 fpm in order to maintain cataloged performance.
- All pressures are in inches w.g..
- Horizontal throws are given at 150, 100 and 50 fpm terminal velocities. Vertical throws are given at 50 fpm terminal velocity. Both under isothermal conditions.
- Throw data are based on active sections 4 ft. long. For other lengths, use the correction factor table above.

- Noise criteria [NC] values are based on 10 dB room absorption, re 10<sup>-12</sup> watts, for a 4 ft. section. For other lengths, use the correction factor table above. For vertical throw, deduct 10 NC.
- Throw values are for a 1-way air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.
- Dash (-) in space indicates an Noise Criteria level of less than 15.

- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.030	.044
2	.060	.088
3	.090	.132
4	.121	.176
5	.151	.220
6	.181	.264
7	.211	.308
8	.241	.352

**B** LINEAR DIFFUSERS AND BAR GRILLES

## PERFORMANCE DATA:

### SUPPLY • CONTINUOUS PRESSURIZED PLENUM

#### Model 5015 • 1 1/2" (38) Slot

No. of Slots	Total Pressure, Horizontal	.017	.032	.056	.082	.118	.154	.203	.250
	Total Pressure, Vertical	.010	.019	.033	.049	.071	.093	.122	.150
1	Airflow, CFM/FT.	18	25	33	40	48	55	63	70
	Throw, Horizontal	3-5-9	5-8-12	7-10-14	8-11-15	10-12-17	11-13-18	12-14-19	13-15-20
	Throw, Vertical	9	12	13	15	16	17	18	19
	Noise Criteria	–	–	21	26	31	35	38	41
2	Airflow, CFM/FT.	35	50	65	80	95	110	125	140
	Throw, Horizontal	5-8-14	8-12-17	10-13-20	12-16-25	13-17-27	15-18-29	16-19-30	17-20-32
	Throw, Vertical	11	16	19	20	21	23	25	27
	Noise Criteria	–	17	24	29	34	38	41	44
3	Airflow, CFM/FT.	53	75	98	120	143	165	188	210
	Throw, Horizontal	7-10-17	10-14-20	13-17-28	15-19-31	16-20-33	19-22-35	20-27-36	22-28-38
	Throw, Vertical	12	18	23	25	27	30	31	35
	Noise Criteria	–	19	26	31	36	40	43	46
4	Airflow, CFM/FT.	70	100	130	160	190	220	250	280
	Throw, Horizontal	9-14-22	12-17-27	14-20-32	17-25-36	18-27-38	20-29-40	22-31-44	24-33-47
	Throw, Vertical	15	21	26	29	31	34	36	40
	Noise Criteria	–	20	27	32	37	41	44	47
5	Airflow, CFM/FT.	88	125	163	200	238	275	313	350
	Throw, Horizontal	11-15-25	13-19-31	16-23-35	20-28-39	24-30-43	27-32-47	28-33-50	30-35-53
	Throw, Vertical	17	22	27	30	34	37	39	43
	Noise Criteria	–	21	28	33	38	42	45	48
6	Airflow, CFM/FT.	105	150	195	240	285	330	375	420
	Throw, Horizontal	12-17-27	14-20-32	18-27-40	25-31-44	27-33-46	29-37-49	30-38-52	31-39-55
	Throw, Vertical	18	26	31	34	37	41	43	45
	Noise Criteria	15	22	29	34	39	43	46	49

#### Noise Criteria Correction Factors for Various Lengths

Length (ft.)	2	4	6	8	9	10	15
Supply	- 3	0	+ 2	+ 3	+ 4	+ 5	+ 8
Return	0	+ 3	+ 4	+ 6	+ 7	+ 8	+ 10

#### Throw Correction Factors for Various Lengths

Length (ft.)	2	4	6	8	10	12
Multiplier	0.70	1.0	1.25	1.40	1.55	1.70

#### Performance Notes:

1. Data is based upon pressurized plenum application (non ducted) with no plenum effect for pressure or sound. Plenums should be sized to achieve equal velocity along the slot length. Keep duct inlet velocities below 700 fpm in order to maintain cataloged performance.
2. All pressures are in inches w.g..
3. Horizontal throws are given at 150, 100 and 50 fpm terminal velocities. Vertical throws are given at 50 fpm terminal velocity. Both under isothermal conditions.

4. Throw data are based on active sections 4 ft. long. For other lengths, use the correction factor table above.
5. Noise criteria [NC] values are based on 10 dB room absorption, re 10<sup>-12</sup> watts, for a 4 ft. section. For other lengths, use the correction factor table above. For vertical throw, deduct 10 NC.
6. Throw values are for a 1-way air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

7. Dash (–) in space indicates an Noise Criteria level of less than 15.
8. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2023.

## PERFORMANCE DATA:

### SUPPLY • CONTINUOUS PRESSURIZED PLENUM

#### Model 5050 • 1/2" (13) Slot

**B**  
**LINEAR DIFFUSERS AND BAR GRILLES**

No. of Slots	Total Pressure, Horizontal	.005	.020	.041	.074	.120	.173	.230	.310
	Total Pressure, Vertical	.003	.014	.027	.051	.083	.116	.158	.215
1	Airflow, CFM/FT.	5	10	15	20	25	30	35	40
	Throw, Horizontal	1-1-6	3-6-12	6-10-14	8-12-18	10-14-18	12-14-20	12-14-20	14-16-24
	Throw, Vertical	2	6	9	11	12	13	14	15
	Noise Criteria	–	–	17	21	26	31	35	38
2	Airflow, CFM/FT.	10	20	30	40	50	60	70	80
	Throw, Horizontal	1-3-9	4-9-16	6-12-20	10-16-22	14-18-24	16-20-28	18-20-30	18-22-32
	Throw, Vertical	3	7	12	14	15	17	18	20
	Noise Criteria	–	15	20	24	28	34	38	41
3	Airflow, CFM/FT.	15	30	45	60	75	90	105	120
	Throw, Horizontal	2-4-10	6-12-20	10-16-24	14-20-28	18-20-30	20-24-38	20-24-40	22-28-44
	Throw, Vertical	4	10	15	18	21	22	25	23
	Noise Criteria	–	16	21	26	31	36	40	43
4	Airflow, CFM/FT.	20	40	60	80	100	120	140	160
	Throw, Horizontal	3-5-12	8-12-22	12-18-28	16-22-32	20-24-40	22-28-44	24-30-48	26-32-52
	Throw, Vertical	6	11	16	20	22	24	26	29
	Noise Criteria	–	17	22	27	32	37	41	44
5	Airflow, CFM/FT.	25	50	75	100	125	150	175	200
	Throw, Horizontal	3-6-14	8-14-24	14-20-30	18-24-40	22-28-46	26-32-50	28-40-52	30-40-58
	Throw, Vertical	6	12	20	26	27	30	30	33
	Noise Criteria	–	18	23	28	33	38	42	45
6	Airflow, CFM/FT.	30	60	90	120	150	180	210	240
	Throw, Horizontal	4-7-16	10-16-28	14-20-38	20-28-44	24-32-50	28-40-54	30-42-58	32-46-64
	Throw, Vertical	6	14	20	25	27	30	33	34
	Noise Criteria	–	19	24	29	34	39	43	46
7	Airflow, CFM/FT.	35	70	105	140	175	210	245	280
	Throw, Horizontal	5-8-18	12-18-30	16-24-42	22-30-48	26-36-54	30-42-58	38-46-64	40-48-68
	Throw, Vertical	6	14	22	27	30	32	36	38
	Noise Criteria	–	19	24	29	34	39	43	46
8	Airflow, CFM/FT.	40	80	120	160	200	240	280	320
	Throw, Horizontal	6-10-20	14-20-32	18-30-44	24-36-52	28-40-58	32-46-64	40-48-68	42-52-72
	Throw, Vertical	7	15	24	29	33	36	39	40
	Noise Criteria	–	20	25	30	35	40	44	47

#### Noise Criteria Correction Factors for Various Lengths

Length (ft.)	2	4	6	8	9	10	15
Supply	-3	0	+2	+3	+4	+5	+8
Return	0	+3	+4	+6	+7	+8	+10

#### Throw Correction Factors for Various Lengths

Length (ft.)	2	4	6	8	10	12
Multiplier	0.70	1.0	1.25	1.40	1.55	1.70

#### Performance Notes:

- Data is based upon pressurized plenum application (non ducted) with no plenum effect for pressure or sound. Plenums should be sized to achieve equal velocity along the slot length. Keep duct inlet velocities below 700 fpm in order to maintain cataloged performance.
- All pressures are in inches w.g..
- Horizontal throws are given at 150, 100 and 50 fpm terminal velocities. Vertical throws are given at 50 fpm terminal velocity. Both under isothermal conditions.
- Throw data are based on active sections 4 ft. long. For other lengths, use the correction factor table above.

- Noise criteria [NC] values are based on 10 dB room absorption, re 10<sup>-12</sup> watts, for a 4 ft. section. For other lengths, use the correction factor table above. For vertical throw, deduct 10 NC.
- Throw values are for a 1-way air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.
- Dash (–) in space indicates an Noise Criteria level of less than 15.

- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.018	.033
2	.035	.066
3	.053	.099
4	.070	.132
5	.088	.165
6	.105	.198
7	.123	.231
8	.140	.264

## PERFORMANCE DATA:

### SUPPLY • CONTINUOUS PRESSURIZED PLENUM

#### Models 5075 and 5075TZ • 3/4" (19) Slot

No. of Slots	Total Pressure, Horizontal	.004	.017	.030	.055	.089	.123	.176	.256
	Total Pressure, Vertical	.003	.012	.026	.042	.065	.092	.125	.174
1	Airflow, CFM/FT.	5	10	20	25	30	35	40	50
	Throw, Horizontal	1-1-5	2-5-14	5-9-16	7-14-21	12-16-23	14-16-23	16-18-25	16-21-28
	Throw, Vertical	2	6	10	12	13	14	15	16
	Noise Criteria	–	–	16	21	26	30	33	38
2	Airflow, CFM/FT.	10	20	40	50	60	70	80	100
	Throw, Horizontal	1-2-10	4-9-21	7-16-23	14-21-28	16-23-32	21-23-35	21-25-44	23-28-46
	Throw, Vertical	3	8	11	15	18	20	21	22
	Noise Criteria	–	–	19	24	29	33	36	41
3	Airflow, CFM/FT.	15	30	60	75	90	105	120	150
	Throw, Horizontal	2-4-12	6-12-23	12-18-30	16-23-35	21-28-46	23-30-48	28-32-53	28-35-55
	Throw, Vertical	6	10	15	19	20	24	25	27
	Noise Criteria	–	–	21	26	31	35	38	43
4	Airflow, CFM/FT.	20	40	80	100	120	140	160	200
	Throw, Horizontal	2-5-14	8-14-28	16-23-35	21-28-46	23-32-53	28-35-55	32-44-60	32-46-64
	Throw, Vertical	5	11	18	21	25	27	30	31
	Noise Criteria	–	–	22	27	32	36	39	44
5	Airflow, CFM/FT.	25	50	100	125	150	175	200	250
	Throw, Horizontal	3-7-16	9-16-32	16-23-46	23-32-53	28-37-58	32-46-62	35-48-67	44-53-74
	Throw, Vertical	6	12	18	25	28	30	34	35
	Noise Criteria	–	–	23	28	33	37	40	45
6	Airflow, CFM/FT.	30	60	120	150	180	210	240	300
	Throw, Horizontal	4-8-17	10-18-35	18-28-48	23-35-55	30-46-62	35-48-69	44-53-74	46-58-78
	Throw, Vertical	7	13	21	25	30	32	36	39
	Noise Criteria	–	–	24	29	34	38	41	46
7	Airflow, CFM/FT.	35	70	140	175	210	245	280	350
	Throw, Horizontal	5-9-18	11-21-38	21-30-53	28-44-60	32-48-67	44-53-74	46-58-81	51-60-85
	Throw, Vertical	8	16	22	29	33	35	40	42
	Noise Criteria	–	–	24	29	34	38	41	46
8	Airflow, CFM/FT.	40	80	160	200	240	280	320	400
	Throw, Horizontal	6-10-21	12-21-41	21-32-55	28-46-64	37-53-74	46-58-78	51-60-85	53-64-90
	Throw, Vertical	8	17	21	30	35	40	42	43
	Noise Criteria	–	15	25	30	35	39	42	47

#### Noise Criteria Correction Factors for Various Lengths

Length (ft.)	2	4	6	8	9	10	15
Supply	-3	0	+2	+3	+4	+5	+8
Return	0	+3	+4	+6	+7	+8	+10

#### Throw Correction Factors for Various Lengths

Length (ft.)	2	4	6	8	10	12
Multiplier	0.70	1.0	1.25	1.40	1.55	1.70

#### Performance Notes:

- Data is based upon pressurized plenum application (non ducted) with no plenum effect for pressure or sound. Plenums should be sized to achieve equal velocity along the slot length. Keep duct inlet velocities below 700 fpm in order to maintain cataloged performance.
- All pressures are in inches w.g..
- Horizontal throws are given at 150, 100 and 50 fpm terminal velocities. Vertical throws are given at 50 fpm terminal velocity. Both under isothermal conditions.
- Throw data are based on active sections 4 ft. long. For other lengths, use the correction factor table above.

- Noise criteria [NC] values are based on 10 dB room absorption, re 10<sup>-12</sup> watts, for a 4 ft. section. For other lengths, use the correction factor table above. For vertical throw, deduct 10 NC.
- Throw values are for a 1-way air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.
- Dash (–) in space indicates an Noise Criteria level of less than 15.

- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.024	.039
2	.049	.078
3	.073	.117
4	.098	.156
5	.122	.195
6	.146	.234
7	.171	.273
8	.195	.312

## PERFORMANCE DATA:

### MODEL 5310(I) • 1" (25) SLOT WIDTH

#### 1 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
	Total Pressure	.008	.018	.032	.049	.071	.097	.126	.160
	Noise Criteria	–	–	17	23	27	31	34	37
	Throw	1-3-07	3-5-09	5-7-11	6-8-13	7-10-14	9-11-15	9-11-16	10-12-17
<b>8" Round Inlet</b>	Airflow, CFM	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>
	Total Pressure	.015	.027	.042	.060	.082	.107	.136	.168
	Noise Criteria	–	–	17	23	27	30	32	35
	Throw	3-5-09	5-7-11	6-8-13	7-10-14	9-11-15	9-11-16	10-12-17	11-13-18
<b>10" Oval Inlet</b>	Airflow, CFM	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>	<b>110</b>
	Total Pressure	.022	.034	.048	.066	.086	.109	.135	.163
	Noise Criteria	–	15	20	24	27	29	32	35
	Throw	5-7-11	6-8-13	7-10-14	9-11-15	9-11-16	10-12-17	11-13-18	12-13-19

#### 1 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>
	Total Pressure	.019	.033	.049	.070	.093	.121	.151	.185
	Noise Criteria	–	18	23	26	30	33	36	38
	Throw	2-6-12	5-8-14	7-10-16	8-12-18	10-13-20	11-14-21	12-15-22	13-16-23
<b>8" Round Inlet</b>	Airflow, CFM	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>
	Total Pressure	.022	.033	.046	.062	.080	.101	.124	.149
	Noise Criteria	–	18	22	25	28	31	33	36
	Throw	5-8-14	7-10-16	8-12-18	10-13-20	11-14-21	12-15-22	13-16-23	14-17-24
<b>10" Oval Inlet</b>	Airflow, CFM	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>
	Total Pressure	.026	.037	.050	.064	.081	.099	.119	.141
	Noise Criteria	16	20	24	27	30	32	34	36
	Throw	7-10-16	8-12-18	10-13-20	11-14-21	12-15-22	13-16-23	14-17-24	15-18-25
<b>12" Oval Inlet</b>	Airflow, CFM	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>	<b>200</b>
	Total Pressure	.033	.044	.057	.071	.087	.105	.124	.145
	Noise Criteria	16	19	22	25	28	31	33	35
	Throw	8-12-18	10-13-20	11-14-21	12-15-22	13-16-23	14-17-24	15-18-25	16-18-26

#### 1 Slot • 60" (1524) Long

<b>8" Round Inlet</b>	Airflow, CFM	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>
	Total Pressure	.026	.037	.049	.064	.080	.098	.118	.140
	Noise Criteria	15	19	23	26	29	31	33	35
	Throw	5-9-16	7-11-18	8-12-19	10-14-21	11-15-22	12-16-23	13-17-24	14-18-25
<b>10" Oval Inlet</b>	Airflow, CFM	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>	<b>200</b>
	Total Pressure	.031	.041	.054	.067	.082	.099	.117	.137
	Noise Criteria	15	19	23	25	28	30	32	35
	Throw	7-11-18	8-12-19	10-14-21	11-15-22	12-16-23	13-17-24	14-18-25	15-18-26
<b>12" Oval Inlet</b>	Airflow, CFM	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>	<b>200</b>	<b>215</b>
	Total Pressure	.030	.038	.048	.059	.071	.084	.098	.113
	Noise Criteria	17	20	22	26	28	30	33	34
	Throw	8-12-19	10-14-21	11-15-22	12-16-23	13-17-24	14-18-25	15-18-26	16-19-27

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (–) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
<b>1</b>	.030	.051
<b>2</b>	.060	.104
<b>3</b>	.090	.155
<b>4</b>	.120	.206

## PERFORMANCE DATA:

### MODEL 5310(I) • 1" (25) SLOT WIDTH

#### 2 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	50	65	80	95	110	125	140	155
	Total Pressure	.020	.034	.052	.073	.098	.127	.159	.195
	Noise Criteria	–	17	23	27	31	34	37	40
	Throw	3-6-13	5-8-16	7-11-18	9-13-20	10-14-22	11-16-24	12-17-25	13-18-26
8" Round Inlet	Airflow, CFM	65	80	95	110	125	140	155	170
	Total Pressure	.026	.039	.055	.074	.095	.119	.146	.176
	Noise Criteria	15	19	22	26	29	32	35	38
	Throw	5-8-16	7-11-18	9-13-20	10-14-22	11-16-24	12-17-25	13-18-26	14-19-27
10" Oval Inlet	Airflow, CFM	80	95	110	125	140	155	170	185
	Total Pressure	.043	.060	.081	.104	.131	.160	.193	.229
	Noise Criteria	16	20	24	27	30	33	36	38
	Throw	7-11-18	9-13-20	10-14-22	11-16-24	12-17-25	13-18-26	14-19-27	14-20-28

#### 2 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	100	120	140	160	180	200	220	240
	Total Pressure	.054	.077	.105	.137	.174	.214	.259	.309
	Noise Criteria	18	22	26	29	33	35	37	39
	Throw	4-8-19	7-11-22	9-13-24	10-15-26	12-17-28	13-19-30	14-20-32	15-22-33
8" Round Inlet	Airflow, CFM	120	140	160	180	200	220	240	260
	Total Pressure	.041	.056	.073	.092	.113	.137	.163	.192
	Noise Criteria	17	21	24	27	30	32	34	36
	Throw	7-11-22	9-13-24	10-15-26	12-17-28	13-19-30	14-20-32	15-22-33	16-23-34
10" Oval Inlet	Airflow, CFM	140	160	180	200	220	240	260	280
	Total Pressure	.038	.049	.063	.077	.093	.111	.130	.151
	Noise Criteria	18	21	24	27	29	31	33	35
	Throw	9-13-24	10-15-26	12-17-28	13-19-30	14-20-32	15-22-33	16-23-34	17-24-36
12" Oval Inlet	Airflow, CFM	160	180	200	220	240	260	280	300
	Total Pressure	.032	.040	.049	.060	.071	.083	.097	.111
	Noise Criteria	17	21	23	25	27	29	31	33
	Throw	10-15-26	12-17-28	13-19-30	14-20-32	15-22-33	16-23-34	17-24-36	18-25-37

#### 2 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	160	180	200	220	240	260	280	300
	Total Pressure	.059	.075	.093	.112	.133	.157	.182	.209
	Noise Criteria	20	23	25	27	29	31	33	35
	Throw	8-13-25	10-15-28	11-17-30	13-19-31	14-20-33	15-22-34	16-23-36	17-24-37
10" Oval Inlet	Airflow, CFM	180	200	220	240	260	280	300	320
	Total Pressure	.052	.064	.077	.092	.108	.125	.143	.163
	Noise Criteria	19	21	23	26	28	30	32	34
	Throw	10-15-28	11-17-30	13-19-31	14-20-33	15-22-34	16-23-36	17-24-37	18-26-38
12" Oval Inlet	Airflow, CFM	200	220	240	260	280	300	320	340
	Total Pressure	.045	.054	.064	.076	.088	.101	.115	.129
	Noise Criteria	19	22	24	26	28	30	32	34
	Throw	11-17-30	13-19-31	14-20-33	15-22-34	16-23-36	17-24-37	18-26-38	19-27-39

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (–) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.030	.051
2	.060	.104
3	.090	.155
4	.120	.206

## PERFORMANCE DATA:

### MODEL 5310(I) • 1" (25) SLOT WIDTH

#### 3 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>
	Total Pressure	.024	.043	.067	.096	.131	.171	.216	.267
	Noise Criteria	–	18	23	27	31	34	37	40
	Throw	2-6-13	5-9-17	7-11-20	9-13-23	11-15-25	12-16-27	13-17-28	14-18-30
<b>8" Round Inlet</b>	Airflow, CFM	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>
	Total Pressure	.034	.053	.077	.104	.136	.173	.213	.258
	Noise Criteria	–	18	23	26	29	32	35	37
	Throw	5-9-17	7-11-20	9-13-23	11-15-25	12-16-27	13-17-28	14-18-30	15-19-31
<b>10" Oval Inlet</b>	Airflow, CFM	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>
	Total Pressure	.029	.042	.057	.075	.095	.117	.141	.168
	Noise Criteria	16	20	23	26	29	32	34	36
	Throw	7-11-20	9-13-23	11-15-25	12-16-27	13-17-28	14-18-30	15-19-31	16-20-32

#### 3 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>
	Total Pressure	.071	.103	.140	.183	.231	.285	.345	.411
	Noise Criteria	17	21	25	28	31	34	36	38
	Throw	4-9-19	7-12-23	9-14-26	11-16-29	12-18-31	14-19-33	15-21-35	17-22-37
<b>8" Round Inlet</b>	Airflow, CFM	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>
	Total Pressure	.048	.065	.085	.108	.134	.162	.192	.226
	Noise Criteria	18	21	24	27	30	32	34	36
	Throw	7-12-38	9-14-38	11-16-38	12-18-38	14-19-38	15-21-38	17-22-38	18-23-38
<b>10" Oval Inlet</b>	Airflow, CFM	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>	<b>350</b>
	Total Pressure	.045	.058	.074	.091	.110	.131	.154	.179
	Noise Criteria	19	22	25	27	29	31	33	35
	Throw	9-14-26	11-16-29	12-18-31	14-19-33	15-21-35	17-22-37	18-23-38	19-24-40
<b>12" Oval Inlet</b>	Airflow, CFM	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>	<b>350</b>	<b>375</b>
	Total Pressure	.032	.040	.049	.060	.071	.083	.097	.111
	Noise Criteria	17	20	23	25	27	29	31	33
	Throw	11-16-29	12-18-31	14-19-33	15-21-35	17-22-37	18-23-38	19-24-40	20-25-41

#### 3 Slot • 60" (1524) Long

<b>8" Round Inlet</b>	Airflow, CFM	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>
	Total Pressure	.063	.085	.111	.141	.174	.210	.250	.293
	Noise Criteria	18	21	25	29	31	33	35	37
	Throw	7-13-25	9-15-28	11-17-31	13-19-34	15-21-36	16-23-38	18-24-40	19-25-42
<b>10" Oval Inlet</b>	Airflow, CFM	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>	<b>420</b>
	Total Pressure	.054	.071	.090	.111	.134	.160	.188	.218
	Noise Criteria	20	22	25	27	30	32	34	36
	Throw	9-15-28	11-17-31	13-19-34	15-21-36	16-23-38	18-24-40	19-25-42	20-26-44
<b>12" Oval Inlet</b>	Airflow, CFM	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>	<b>420</b>	<b>450</b>
	Total Pressure	.036	.046	.057	.069	.082	.096	.111	.128
	Noise Criteria	19	21	23	26	28	30	32	34
	Throw	11-17-31	13-19-34	15-21-36	16-23-38	18-24-40	19-25-42	20-26-44	21-28-45

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (–) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
<b>1</b>	.030	.051
<b>2</b>	.060	.104
<b>3</b>	.090	.155
<b>4</b>	.120	.206

## PERFORMANCE DATA:

### MODEL 5310(I) • 1" (25) SLOT WIDTH

#### 4 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	75	100	125	150	175	200	225	250
	Total Pressure	.030	.054	.084	.121	.164	.214	.271	.335
	Noise Criteria	15	19	24	28	32	35	38	40
	Throw	4-6-15	7-10-20	9-13-23	11-15-26	12-18-29	14-20-31	15-21-33	16-23-34
8" Round Inlet	Airflow, CFM	100	125	150	175	200	225	250	275
	Total Pressure	.035	.054	.078	.106	.138	.175	.216	.261
	Noise Criteria	15	19	23	27	31	33	35	38
	Throw	7-10-20	9-13-23	11-15-26	12-18-29	14-20-31	15-21-33	16-23-34	17-24-36
10" Oval Inlet	Airflow, CFM	125	150	175	200	225	250	275	300
	Total Pressure	.029	.041	.056	.073	.093	.115	.139	.165
	Noise Criteria	17	21	24	28	30	33	35	37
	Throw	9-13-23	11-15-26	12-18-29	14-20-31	15-21-33	16-23-34	17-24-36	18-25-37

#### 4 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	160	190	220	250	280	310	340	370
	Total Pressure	.104	.147	.198	.255	.320	.392	.472	.559
	Noise Criteria	19	23	27	30	33	35	37	39
	Throw	7-10-23	9-13-27	11-16-31	13-18-33	14-21-36	16-23-38	17-25-40	18-26-42
8" Round Inlet	Airflow, CFM	190	220	250	280	310	340	370	400
	Total Pressure	.065	.087	.112	.140	.172	.207	.245	.287
	Noise Criteria	19	22	25	28	30	32	34	36
	Throw	9-13-27	11-16-31	13-18-33	14-21-36	16-23-38	17-25-40	18-26-42	19-28-44
10" Oval Inlet	Airflow, CFM	220	250	280	310	340	370	400	430
	Total Pressure	.054	.070	.088	.108	.129	.153	.179	.207
	Noise Criteria	19	23	25	27	29	31	33	35
	Throw	11-16-1931	13-18-33	14-21-36	16-23-38	17-25-40	18-26-42	19-28-44	20-29-45
12" Oval Inlet	Airflow, CFM	250	280	310	340	370	400	430	460
	Total Pressure	.039	.049	.061	.073	.086	.101	.116	.133
	Noise Criteria	17	20	23	25	27	29	31	33
	Throw	13-18-33	14-21-36	16-23-38	17-25-40	18-26-42	19-28-44	20-29-45	21-31-47

#### 4 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	220	260	300	340	380	420	460	500
	Total Pressure	.085	.118	.157	.202	.253	.309	.370	.437
	Noise Criteria	19	22	27	29	31	33	36	38
	Throw	9-13-29	12-17-33	14-20-36	16-23-39	17-25-42	19-27-45	20-29-47	22-31-49
10" Oval Inlet	Airflow, CFM	260	300	340	380	420	460	500	540
	Total Pressure	.072	.095	.122	.153	.187	.224	.265	.309
	Noise Criteria	21	24	27	30	32	34	36	38
	Throw	12-17-33	14-20-36	16-23-39	17-25-42	19-27-45	20-29-47	22-31-49	23-33-51
12" Oval Inlet	Airflow, CFM	300	340	380	420	460	500	540	580
	Total Pressure	.043	.056	.070	.085	.102	.121	.141	.162
	Noise Criteria	20	23	26	28	30	32	34	36
	Throw	14-20-36	16-23-39	17-25-42	19-27-45	20-29-47	22-31-49	23-33-51	24-35-53

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (–) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.030	.051
2	.060	.104
3	.090	.155
4	.120	.206

**PERFORMANCE DATA:**

**MODEL 5315(I) • 1 1/2" (38) SLOT WIDTH**

**1 Slot • 24" (610) Long**

<b>6" Round Inlet</b>	Airflow, CFM	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>	<b>110</b>	<b>120</b>
	Total Pressure	.039	.056	.076	.099	.125	.155	.087	.223
	Noise Criteria	18	23	26	30	32	35	37	39
	Throw	5-8-12	6-9-13	7-10-14	8-11-15	9-11-16	10-12-17	10-12-17	11-13-18
<b>8" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>
	Total Pressure	.032	.044	.058	.073	.090	.109	0.130	.152
	Noise Criteria	20	24	27	30	32	35	37	39
	Throw	6-9-13	7-10-14	8-11-15	9-11-16	10-12-17	10-12-17	11-13-18	11-13-19
<b>10" Oval Inlet</b>	Airflow, CFM	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>	<b>110</b>	<b>120</b>	<b>130</b>	<b>140</b>
	Total Pressure	.031	.040	.051	.063	.076	.090	.106	.123
	Noise Criteria	22	25	28	31	33	35	37	39
	Throw	7-10-14	8-11-15	9-11-16	10-12-17	10-12-17	11-13-18	11-13-19	11-14-20

**1 Slot • 48" (1219) Long**

<b>8" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>85</b>	<b>110</b>	<b>135</b>	<b>160</b>	<b>185</b>	<b>210</b>	<b>235</b>
	Total Pressure	.015	.031	.052	.078	.110	.147	.189	.237
	Noise Criteria	-	15	21	26	30	34	37	39
	Throw	4-7-13	6-9-15	8-12-17	10-14-19	12-15-21	13-16-23	14-17-24	15-18-26
<b>10" Oval Inlet</b>	Airflow, CFM	<b>70</b>	<b>95</b>	<b>120</b>	<b>145</b>	<b>170</b>	<b>195</b>	<b>220</b>	<b>245</b>
	Total Pressure	.015	.027	.044	.064	.088	.115	.147	.182
	Noise Criteria	-	16	21	26	30	33	36	39
	Throw	5-8-14	7-11-16	9-13-18	11-14-20	13-15-22	13-16-23	14-17-25	15-18-26
<b>12" Oval Inlet</b>	Airflow, CFM	<b>90</b>	<b>115</b>	<b>140</b>	<b>165</b>	<b>190</b>	<b>215</b>	<b>240</b>	<b>265</b>
	Total Pressure	.019	.031	.045	.063	.083	.107	.133	.162
	Noise Criteria	13	19	24	28	31	34	37	39
	Throw	7-10-16	9-13-18	10-14-20	12-15-21	13-16-23	14-17-24	15-18-26	16-19-27

**1 Slot • 60" (1524) Long**

<b>8" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>90</b>	<b>120</b>	<b>150</b>	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>
	Total Pressure	.012	.027	.048	.075	.109	.148	.193	.244
	Noise Criteria	-	15	22	27	32	35	39	42
	Throw	5-5-10	7-7-14	10-10-18	12-12-20	14-14-22	17-17-24	18-18-26	19-19-27
<b>10" Oval Inlet</b>	Airflow, CFM	<b>70</b>	<b>100</b>	<b>130</b>	<b>160</b>	<b>190</b>	<b>220</b>	<b>250</b>	<b>280</b>
	Total Pressure	.012	.024	.040	.061	.086	.116	.149	.187
	Noise Criteria	-	16	22	27	31	35	38	41
	Throw	6-6-11	8-8-16	10-10-19	13-13-21	15-15-23	17-17-25	19-19-26	20-20-28
<b>12" Oval Inlet</b>	Airflow, CFM	<b>80</b>	<b>110</b>	<b>140</b>	<b>170</b>	<b>200</b>	<b>230</b>	<b>260</b>	<b>290</b>
	Total Pressure	.012	.022	.036	.053	.073	.097	.123	.154
	Noise Criteria	-	17	23	27	31	35	38	40
	Throw	4-6-13	6-9-17	7-11-20	9-14-22	11-16-24	12-18-25	14-19-27	16-20-28

**Performance Notes:**

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.
5. Performance data is based upon the standard **5300 Series Model**. The **5300MP Modified Performance Series** reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (-) in space indicates an Noise Criteria level of less than 15.
7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2023.

**PERFORMANCE DATA:**

**MODEL 5315(I) • 1 1/2" (38) SLOT WIDTH**

**2 Slot • 24" (610) Long**

<b>6" Round Inlet</b>	Airflow, CFM	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>
	Total Pressure	.018	.040	.071	.110	.159	.216	.282	.357
	Noise Criteria	-	14	21	27	31	35	38	41
	Throw	4-6-11	6-8-14	7-11-17	9-13-19	11-14-20	13-16-22	14-17-24	14-18-25
<b>8" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>85</b>	<b>110</b>	<b>135</b>	<b>160</b>	<b>185</b>	<b>210</b>	<b>235</b>
	Total Pressure	.015	.031	.052	.078	.110	.147	.189	.237
	Noise Criteria	-	15	21	26	30	34	37	39
	Throw	4-7-13	6-9-15	8-12-17	10-14-19	12-15-21	13-16-23	14-17-24	15-18-26
<b>10" Oval Inlet</b>	Airflow, CFM	<b>70</b>	<b>95</b>	<b>120</b>	<b>145</b>	<b>170</b>	<b>195</b>	<b>220</b>	<b>245</b>
	Total Pressure	.015	.027	.044	.064	.088	.115	.147	.182
	Noise Criteria	-	16	21	26	30	33	36	39
	Throw	5-8-14	7-11-16	9-13-18	11-14-20	13-15-22	13-16-23	14-17-25	15-18-26

**2 Slot • 48" (1219) Long**

<b>6" Round Inlet</b>	Airflow, CFM	<b>100</b>	<b>140</b>	<b>180</b>	<b>220</b>	<b>260</b>	<b>300</b>	<b>340</b>	<b>380</b>
	Total Pressure	.029	.056	.093	.138	.193	.257	.330	.412
	Noise Criteria	-	16	22	27	31	34	37	40
	Throw	5-8-16	7-11-20	9-14-22	12-17-25	14-19-27	16-20-29	18-22-31	19-23-32
<b>8" Round Inlet</b>	Airflow, CFM	<b>120</b>	<b>160</b>	<b>200</b>	<b>240</b>	<b>280</b>	<b>320</b>	<b>360</b>	<b>400</b>
	Total Pressure	.028	.050	.077	.111	.152	.198	.251	.310
	Noise Criteria	-	16	22	26	30	33	36	39
	Throw	6-9-18	8-13-21	10-16-24	13-18-26	15-20-28	17-21-30	18-22-32	19-24-33
<b>10" Oval Inlet</b>	Airflow, CFM	<b>130</b>	<b>175</b>	<b>220</b>	<b>265</b>	<b>310</b>	<b>355</b>	<b>400</b>	<b>445</b>
	Total Pressure	.024	.043	.069	.100	.136	.179	.227	.281
	Noise Criteria	-	17	22	27	31	34	37	40
	Throw	7-10-19	9-14-22	12-17-25	14-19-27	16-21-29	18-22-31	19-24-33	20-25-35
<b>12" Oval Inlet</b>	Airflow, CFM	<b>140</b>	<b>190</b>	<b>240</b>	<b>290</b>	<b>340</b>	<b>390</b>	<b>440</b>	<b>490</b>
	Total Pressure	.022	.040	.063	.092	.127	.167	.213	.264
	Noise Criteria	-	17	23	28	32	35	38	41
	Throw	7-11-20	10-15-23	13-18-26	15-20-28	18-22-31	19-23-33	20-25-35	21-26-37

**2 Slot • 60" (1524) Long**

<b>8" Round Inlet</b>	Airflow, CFM	<b>150</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>350</b>	<b>400</b>	<b>450</b>	<b>500</b>
	Total Pressure	.033	.059	.091	.132	.179	.234	.296	.366
	Noise Criteria	-	17	23	27	31	34	37	40
	Throw	12-12-20	16-16-24	19-19-26	20-20-29	22-22-31	24-24-33	25-25-35	26-26-37
<b>10" Oval Inlet</b>	Airflow, CFM	<b>160</b>	<b>215</b>	<b>270</b>	<b>325</b>	<b>380</b>	<b>435</b>	<b>490</b>	<b>545</b>
	Total Pressure	.028	.051	.080	.116	.158	.207	.263	.325
	Noise Criteria	-	17	23	28	31	35	38	40
	Throw	13-13-21	17-17-24	19-19-27	21-21-30	23-23-32	25-25-35	26-26-37	27-27-39
<b>12" Oval Inlet</b>	Airflow, CFM	<b>180</b>	<b>240</b>	<b>300</b>	<b>360</b>	<b>420</b>	<b>480</b>	<b>540</b>	<b>600</b>
	Total Pressure	.028	.049	.077	.111	.151	.197	.250	.308
	Noise Criteria	12	19	24	29	32	36	39	41
	Throw	10-14-22	13-18-26	16-20-29	18-22-32	20-24-34	21-26-36	22-27-39	24-29-41

**Performance Notes:**

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (-) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

**PERFORMANCE DATA:**

**MODEL 5315(I) • 1 1/2" (38) SLOT WIDTH**

**3 Slot • 24" (610) Long**

<b>6" Round Inlet</b>	Airflow, CFM	<b>100</b>	<b>130</b>	<b>160</b>	<b>190</b>	<b>220</b>	<b>250</b>	<b>280</b>	<b>310</b>
	Total Pressure	.027	.046	.070	.098	.132	.170	.213	.261
	Noise Criteria	13	20	25	29	32	36	38	41
	Throw	8-12-17	11-13-19	12-15-21	13-16-23	14-17-25	15-19-26	16-20-28	17-21-29
<b>8" Round Inlet</b>	Airflow, CFM	<b>110</b>	<b>140</b>	<b>170</b>	<b>200</b>	<b>230</b>	<b>260</b>	<b>290</b>	<b>320</b>
	Total Pressure	.024	.038	.057	.078	.104	.132	.165	.200
	Noise Criteria	13	19	24	28	31	34	37	39
	Throw	9-12-17	11-14-20	13-15-22	14-17-24	15-18-25	16-19-27	16-20-28	17-21-30
<b>10" Oval Inlet</b>	Airflow, CFM	<b>120</b>	<b>155</b>	<b>190</b>	<b>225</b>	<b>260</b>	<b>295</b>	<b>330</b>	<b>365</b>
	Total Pressure	.022	.036	.054	.076	.102	.131	.164	.200
	Noise Criteria	13	20	25	29	32	35	38	40
	Throw	10-13-18	12-15-21	13-1-23	14-18-25	16-19-7	17-20-29	17-21-30	18-23-32

**3 Slot • 48" (1219) Long**

<b>6" Round Inlet</b>	Airflow, CFM	<b>120</b>	<b>175</b>	<b>230</b>	<b>285</b>	<b>340</b>	<b>395</b>	<b>450</b>	<b>505</b>
	Total Pressure	.021	.045	.077	.118	.168	.227	.295	.371
	Noise Criteria	-	13	20	25	29	33	36	39
	Throw	7-11-18	10-16-22	14-18-25	16-20-28	18-22-31	19-23-33	20-25-35	22-26-37
<b>8" Round Inlet</b>	Airflow, CFM	<b>140</b>	<b>200</b>	<b>260</b>	<b>320</b>	<b>380</b>	<b>440</b>	<b>500</b>	<b>560</b>
	Total Pressure	.023	.046	.078	.118	.166	.222	.287	.360
	Noise Criteria	-	14	20	25	29	33	36	39
	Throw	8-13-20	12-17-24	16-19-27	17-21-30	19-23-32	20-25-35	22-26-37	23-28-39
<b>10" Oval Inlet</b>	Airflow, CFM	<b>150</b>	<b>215</b>	<b>280</b>	<b>345</b>	<b>410</b>	<b>475</b>	<b>540</b>	<b>605</b>
	Total Pressure	.020	.041	.069	.105	.148	.198	.256	.322
	Noise Criteria	-	14	20	25	30	33	36	39
	Throw	9-13-20	13-17-24	16-20-28	18-22-31	19-24-34	21-26-36	22-27-39	24-29-41
<b>12" Oval Inlet</b>	Airflow, CFM	<b>160</b>	<b>230</b>	<b>300</b>	<b>370</b>	<b>440</b>	<b>510</b>	<b>580</b>	<b>650</b>
	Total Pressure	.018	.037	.063	.095	.135	.181	.234	.294
	Noise Criteria	-	14	21	26	30	34	37	39
	Throw	10-14-21	14-18-25	17-20-29	18-23-32	20-25-35	22-27-38	23-28-40	25-30-42

**3 Slot • 60" (1524) Long**

<b>8" Round Inlet</b>	Airflow, CFM	<b>160</b>	<b>235</b>	<b>310</b>	<b>385</b>	<b>460</b>	<b>535</b>	<b>610</b>	<b>685</b>
	Total Pressure	.021	.046	.080	.124	.176	.239	.310	.391
	Noise Criteria	-	13	20	25	30	33	37	39
	Throw	9-13-21	13-18-26	17-21-29	19-23-33	21-25-36	22-27-39	24-29-41	25-31-44
<b>10" Oval Inlet</b>	Airflow, CFM	<b>180</b>	<b>260</b>	<b>340</b>	<b>420</b>	<b>500</b>	<b>580</b>	<b>660</b>	<b>740</b>
	Total Pressure	.021	.045	.077	.117	.166	.223	.289	.363
	Noise Criteria	-	14	21	26	30	34	37	40
	Throw	10-14-22	14-19-27	18-22-31	20-24-34	22-26-37	23-28-40	25-30-43	26-32-45
<b>12" Oval Inlet</b>	Airflow, CFM	<b>200</b>	<b>280</b>	<b>360</b>	<b>440</b>	<b>520</b>	<b>600</b>	<b>680</b>	<b>760</b>
	Total Pressure	.021	.042	.069	.103	.144	.192	.247	.308
	Noise Criteria	-	15	21	26	30	33	36	39
	Throw	11-16-24	15-20-28	18-22-32	20-25-35	22-27-38	24-29-41	25-31-43	27-32-46

**Performance Notes:**

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (-) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

**PERFORMANCE DATA:**

**MODEL 5315(I) • 1 1/2" (38) SLOT WIDTH**

**4 Slot • 24" (610) Long**

<b>6" Round Inlet</b>	Airflow, CFM	<b>80</b>	<b>110</b>	<b>140</b>	<b>170</b>	<b>200</b>	<b>230</b>	<b>260</b>	<b>290</b>
	Total Pressure	.012	.023	.038	.056	.077	.102	.131	.163
	Noise Criteria	-	17	23	28	32	35	38	41
	Throw	4-6-13	6-9-17	7-11-20	9-13-22	10-16-24	12-18-25	14-19-27	15-20-28
<b>8" Round Inlet</b>	Airflow, CFM	<b>90</b>	<b>125</b>	<b>160</b>	<b>195</b>	<b>230</b>	<b>265</b>	<b>300</b>	<b>335</b>
	Total Pressure	.011	.022	.036	.054	.075	.100	.128	.159
	Noise Criteria	-	17	23	28	32	36	39	41
	Throw	5-7-14	7-10-19	8-13-21	10-15-23	12-18-25	14-19-27	16-20-29	18-22-30
<b>10" Oval Inlet</b>	Airflow, CFM	<b>100</b>	<b>145</b>	<b>190</b>	<b>235</b>	<b>280</b>	<b>325</b>	<b>370</b>	<b>415</b>
	Total Pressure	.011	.023	.040	.061	.086	.116	.150	.189
	Noise Criteria	-	12	19	24	28	32	35	38
	Throw	5-8-16	8-11-20	10-15-23	12-18-26	15-20-28	17-21-30	18-23-32	20-24-34

**4 Slot • 48" (1219) Long**

<b>6" Round Inlet</b>	Airflow, CFM	<b>140</b>	<b>210</b>	<b>280</b>	<b>350</b>	<b>420</b>	<b>490</b>	<b>560</b>	<b>630</b>
	Total Pressure	.015	.033	.059	.092	.133	.181	.237	.300
	Noise Criteria	-	12	19	24	29	33	36	39
	Throw	4-8-16	8-12-23	10-16-28	13-19-31	16-23-34	18-26-37	21-28-39	23-30-42
<b>8" Round Inlet</b>	Airflow, CFM	<b>150</b>	<b>230</b>	<b>310</b>	<b>390</b>	<b>470</b>	<b>550</b>	<b>630</b>	<b>710</b>
	Total Pressure	.017	.040	.073	.115	.167	.228	.300	.381
	Noise Criteria	-	12	19	24	29	33	36	39
	Throw	4-8-17	9-13-25	11-17-29	14-22-33	17-26-36	20-28-39	23-30-42	26-31-44
<b>10" Oval Inlet</b>	Airflow, CFM	<b>170</b>	<b>260</b>	<b>350</b>	<b>440</b>	<b>530</b>	<b>620</b>	<b>710</b>	<b>800</b>
	Total Pressure	.018	.041	.075	.118	.171	.234	.307	.390
	Noise Criteria	-	13	20	26	30	34	37	40
	Throw	6-9-19	10-14-27	13-19-31	16-24-35	20-27-38	23-29-41	26-31-44	27-33-47
<b>12" Oval Inlet</b>	Airflow, CFM	<b>200</b>	<b>290</b>	<b>380</b>	<b>470</b>	<b>560</b>	<b>650</b>	<b>740</b>	<b>830</b>
	Total Pressure	.020	.042	.071	.109	.155	.209	.270	.340
	Noise Criteria	-	14	21	26	30	34	37	40
	Throw	7-11-22	11-16-28	14-21-32	17-26-36	21-28-39	24-30-42	26-32-45	28-34-48

**4 Slot • 60" (1524) Long**

<b>8" Round Inlet</b>	Airflow, CFM	<b>180</b>	<b>280</b>	<b>380</b>	<b>480</b>	<b>580</b>	<b>680</b>	<b>780</b>	<b>880</b>
	Total Pressure	.017	.041	.075	.120	.175	.240	.316	.402
	Noise Criteria	-	12	19	25	30	34	37	40
	Throw	5-9-18	9-14-28	13-19-32	16-24-36	19-28-40	23-31-43	26-33-47	29-35-49
<b>10" Oval Inlet</b>	Airflow, CFM	<b>200</b>	<b>310</b>	<b>420</b>	<b>530</b>	<b>640</b>	<b>750</b>	<b>860</b>	<b>970</b>
	Total Pressure	.018	.043	.079	.126	.183	.252	.331	.421
	Noise Criteria	-	13	20	26	30	34	38	40
	Throw	6-10-20	10-15-29	14-21-34	18-26-38	21-30-42	25-32-46	28-35-49	30-37-52
<b>12" Oval Inlet</b>	Airflow, CFM	<b>220</b>	<b>340</b>	<b>460</b>	<b>580</b>	<b>700</b>	<b>820</b>	<b>940</b>	<b>1060</b>
	Total Pressure	.018	.043	.079	.125	.183	.250	.329	.419
	Noise Criteria	-	14	21	27	31	35	38	41
	Throw	7-11-22	11-17-31	15-23-36	19-28-40	23-31-44	27-34-48	29-36-51	31-38-54

**Performance Notes:**

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (-) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

## PERFORMANCE DATA:

### MODEL 5350(I) • 1/2" (13) SLOT WIDTH

#### 1 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	20	30	40	50	60	70	80	90
	Total Pressure	.017	.038	.068	.107	.154	.209	.273	.346
	Noise Criteria	–	17	23	29	33	37	41	43
	Throw	3-4-8	5-6-10	6-8-12	7-9-13	8-10-14	9-11-15	9-11-16	10-12-16

#### 1 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	35	50	65	80	95	110	125	140
	Total Pressure	.023	.047	.080	.121	.171	.229	.295	.371
	Noise Criteria	–	19	25	30	34	37	40	43
	Throw	3-5-10	6-8-13	7-10-15	9-11-17	10-13-18	11-14-19	12-14-20	12-15-21
<b>8" Round Inlet</b>	Airflow, CFM	50	65	80	95	110	125	140	155
	Total Pressure	.030	.051	.077	.109	.146	.188	.236	.29
	Noise Criteria	15	21	26	30	33	36	39	42
	Throw	6-8-13	7-10-15	9-11-17	10-13-18	11-14-19	12-14-20	12-15-21	13-16-22

#### 1 Slot • 60" (1524) Long

<b>6" Round Inlet</b>	Airflow, CFM	50	65	80	95	110	125	140	155
	Total Pressure	.025	.043	.064	.091	.122	.157	.198	.242
	Noise Criteria	–	20	26	30	34	37	40	42
	Throw	5-7-13	7-9-15	8-11-17	9-12-19	10-13-20	11-14-21	12-15-22	13-16-23
<b>8" Round Inlet</b>	Airflow, CFM	50	65	80	95	110	125	140	155
	Total Pressure	.021	.036	.055	.077	.103	.133	.167	.205
	Noise Criteria	–	17	22	26	30	34	37	39
	Throw	5-7-13	7-9-15	8-11-17	9-12-19	10-13-20	11-14-21	12-15-22	13-16-23

### Performance Notes:

- Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Total Pressure is in inches w.g..
- Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
- Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.
- Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
- Dash (–) in space indicates an Noise Criteria level of less than 15.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.018	.033
2	.035	.066
3	.053	.099
4	.070	.132

## PERFORMANCE DATA:

### MODEL 5350(I) • 1/2" (13) SLOT WIDTH

#### 2 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>35</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>
	Total Pressure	.021	.042	.072	.108	.153	.205	.265	.332
	Noise Criteria	–	20	26	31	36	39	42	45
	Throw	3-6-10	5-8-13	7-10-15	8-11-16	9-12-18	10-13-19	11-14-20	12-15-21

#### 2 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>
	Total Pressure	.042	.074	.116	.168	.228	.298	.377	.465
	Noise Criteria	–	19	24	28	32	36	38	41
	Throw	2-6-13	5-9-16	7-11-18	9-13-20	10-14-22	11-16-23	13-17-25	13-18-26
<b>8" Round Inlet</b>	Airflow, CFM	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>
	Total Pressure	.039	.060	.087	.118	.154	.195	.241	.291
	Noise Criteria	16	20	24	28	31	34	37	39
	Throw	5-9-16	7-11-18	9-13-20	10-14-22	11-16-23	13-17-25	13-18-26	14-19-27
<b>10" Oval Inlet</b>	Airflow, CFM	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>
	Total Pressure	.041	.058	.079	.104	.131	.162	.196	.233
	Noise Criteria	18	22	26	29	32	35	37	39
	Throw	7-11-18	9-13-20	10-14-22	11-16-23	13-17-25	13-18-26	14-19-27	15-19-28

#### 2 Slot • 60" (1524) Long

<b>8" Round Inlet</b>	Airflow, CFM	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>
	Total Pressure	.071	.097	.126	.160	.198	.239	.284	.334
	Noise Criteria	21	25	28	31	34	36	38	40
	Throw	8-12-20	9-14-22	11-15-23	12-16-25	13-17-26	14-18-27	15-19-28	15-20-29
<b>10" Oval Inlet</b>	Airflow, CFM	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>	<b>260</b>	<b>280</b>
	Total Pressure	.065	.085	.107	.133	.161	.191	.224	.260
	Noise Criteria	22	25	28	31	33	35	37	39
	Throw	9-14-22	11-15-23	12-16-25	13-17-26	14-18-27	15-19-28	15-20-29	16-21-30

### Performance Notes:

- Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Total Pressure is in inches w.g..
- Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
- Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.
- Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
- Dash (–) in space indicates an Noise Criteria level of less than 15.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
<b>1</b>	.018	.033
<b>2</b>	.035	.066
<b>3</b>	.053	.099
<b>4</b>	.070	.132

**B** LINEAR DIFFUSERS AND BAR GRILLES

## PERFORMANCE DATA:

### MODEL 5375(I) • 3/4" (19) SLOT WIDTH

#### 1 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>
	Total Pressure	.014	.031	.055	.085	.123	.168	.219	.277
	Noise Criteria	–	–	20	26	30	34	37	40
	Throw	2-4-08	4-6-11	6-8-13	7-10-14	8-11-16	9-12-17	9-12-18	10-13-18
<b>8" Round Inlet</b>	Airflow, CFM	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>
	Total Pressure	.026	.046	.073	.104	.142	.186	.235	.290
	Noise Criteria	–	17	22	26	30	32	35	38
	Throw	4-6-11	6-8-13	7-10-14	8-11-16	9-12-17	9-12-18	10-13-18	11-14-19
<b>10" Oval Inlet</b>	Airflow, CFM	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>	<b>110</b>
	Total Pressure	.037	.058	.084	.114	.149	.188	.232	.281
	Noise Criteria	–	18	22	26	29	32	35	37
	Throw	6-8-13	7-10-14	8-11-16	9-12-17	9-12-18	10-13-18	11-14-19	11-14-20

#### 1 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>35</b>	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>
	Total Pressure	.012	.024	.040	.061	.086	.115	.149	.187
	Noise Criteria	–	17	22	27	30	33	36	39
	Throw	2-5-11	5-8-14	7-10-17	8-12-19	10-13-20	11-14-22	12-16-23	13-17-24
<b>8" Round Inlet</b>	Airflow, CFM	<b>50</b>	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>
	Total Pressure	.020	.034	.052	.073	.098	.127	.159	.195
	Noise Criteria	–	17	22	26	29	31	34	37
	Throw	5-8-14	7-10-17	8-12-19	10-13-20	11-14-22	12-16-23	13-17-24	13-17-25
<b>10" Oval Inlet</b>	Airflow, CFM	<b>65</b>	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>
	Total Pressure	.027	.042	.059	.079	.101	.127	.156	.188
	Noise Criteria	–	19	23	27	30	32	34	37
	Throw	7-10-17	8-12-19	10-13-20	11-14-22	12-16-23	13-17-24	13-17-25	14-18-26
<b>12" Oval Inlet</b>	Airflow, CFM	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>
	Total Pressure	.037	.052	.070	.090	.113	.138	.166	.197
	Noise Criteria	16	20	23	26	29	31	34	36
	Throw	8-12-19	10-13-20	11-14-22	12-16-23	13-17-24	13-17-25	14-18-26	15-19-26

#### 1 Slot • 60" (1524) Long

<b>8" Round Inlet</b>	Airflow, CFM	<b>80</b>	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>
	Total Pressure	.039	.055	.074	.095	.119	.146	.176	.209
	Noise Criteria	18	22	26	29	32	35	36	39
	Throw	8-11-18	9-13-20	10-14-22	11-15-23	12-16-24	13-17-25	14-18-26	15-19-27
<b>10" Oval Inlet</b>	Airflow, CFM	<b>95</b>	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>	<b>200</b>
	Total Pressure	.050	.068	.087	.110	.134	.162	.191	.224
	Noise Criteria	20	23	26	29	31	33	35	37
	Throw	9-13-20	10-14-22	11-15-23	12-16-24	13-17-25	14-18-26	15-19-27	15-20-28
<b>12" Oval Inlet</b>	Airflow, CFM	<b>110</b>	<b>125</b>	<b>140</b>	<b>155</b>	<b>170</b>	<b>185</b>	<b>200</b>	<b>215</b>
	Total Pressure	.048	.062	.078	.095	.115	.136	.159	.184
	Noise Criteria	21	24	26	29	31	33	36	37
	Throw	10-14-22	11-15-23	12-16-24	13-17-25	14-18-26	15-19-27	15-20-28	16-21-29

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.

6. Dash (–) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
<b>1</b>	.024	.039
<b>2</b>	.049	.078
<b>3</b>	.073	.117
<b>4</b>	.098	.156

## PERFORMANCE DATA:

### MODEL 5375(I) • 3/4" (19) SLOT WIDTH

#### 2 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	50	65	80	95	110	125	140	155
	Total Pressure	.027	.045	.068	.096	.129	.167	.209	.257
	Noise Criteria	16	21	26	30	34	37	40	43
	Throw	5-8-15	7-10-18	9-12-20	10-14-22	11-15-23	12-16-25	13-17-26	13-17-27
8" Round Inlet	Airflow, CFM	65	80	95	110	125	140	155	170
	Total Pressure	.036	.055	.077	.103	.134	.168	.205	.247
	Noise Criteria	17	22	26	29	32	35	38	41
	Throw	7-10-18	9-12-20	10-14-22	11-15-23	12-16-25	13-17-26	13-17-27	14-18-28
10" Oval Inlet	Airflow, CFM	80	95	110	125	140	155	170	185
	Total Pressure	.044	.062	.083	.107	.134	.164	.197	.234
	Noise Criteria	16	22	26	30	33	36	39	41
	Throw	9-12-20	10-14-22	11-15-23	12-16-25	13-17-26	13-17-27	14-18-28	15-19-29

#### 2 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	60	80	100	120	140	160	180	200
	Total Pressure	.022	.039	.061	.088	.119	.156	.198	.244
	Noise Criteria	–	16	21	25	29	32	35	38
	Throw	2-6-14	5-9-18	8-12-22	9-14-24	11-16-27	12-17-29	14-19-30	15-20-32
8" Round Inlet	Airflow, CFM	80	100	120	140	160	180	200	220
	Total Pressure	.022	.034	.049	.067	.088	.111	.137	.166
	Noise Criteria	–	15	19	23	27	30	33	36
	Throw	5-9-18	8-12-22	9-14-24	11-16-27	12-17-29	14-19-30	15-20-32	16-21-33
10" Oval Inlet	Airflow, CFM	100	120	140	160	180	200	220	240
	Total Pressure	.025	.036	.049	.064	.082	.101	.122	.145
	Noise Criteria	–	17	21	24	27	30	33	35
	Throw	8-12-22	9-14-24	11-16-27	12-17-29	14-19-30	15-20-32	16-21-33	17-22-35
12" Oval Inlet	Airflow, CFM	120	140	160	180	200	220	240	260
	Total Pressure	.031	.042	.055	.070	.086	.104	.124	.145
	Noise Criteria	–	15	18	23	26	29	32	34
	Throw	9-14-24	11-16-27	12-17-29	14-19-30	15-20-32	16-21-33	17-22-35	17-23-36

#### 2 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	140	160	180	200	220	240	260	280
	Total Pressure	.054	.070	.089	.110	.133	.158	.186	.216
	Noise Criteria	20	23	26	28	31	33	35	37
	Throw	10-15-26	11-17-28	13-18-30	14-19-32	15-21-34	16-22-35	17-23-36	18-24-38
10" Oval Inlet	Airflow, CFM	160	180	200	220	240	260	280	300
	Total Pressure	.049	.063	.077	.093	.111	.130	.151	.174
	Noise Criteria	20	23	25	28	30	32	34	36
	Throw	11-17-28	13-18-30	14-19-32	15-21-34	16-22-35	17-23-36	18-24-38	19-25-39
12" Oval Inlet	Airflow, CFM	180	200	220	240	260	280	300	320
	Total Pressure	.044	.055	.066	.079	.092	.107	.123	.140
	Noise Criteria	20	23	25	27	29	31	33	35
	Throw	13-18-30	14-19-32	15-21-34	16-22-35	17-23-36	18-24-38	19-25-39	19-25-40

#### Performance Notes:

- Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Total Pressure is in inches w.g..
- Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
- Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

- Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
- Dash (–) in space indicates an Noise Criteria level of less than 15.

- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.024	.039
2	.049	.078
3	.073	.117
4	.098	.156

## PERFORMANCE DATA:

### MODEL 5375(I) • 3/4" (19) SLOT WIDTH

#### 3 Slot • 24" (610) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>60</b>	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>
	Total Pressure	.026	.047	.073	.106	.144	.188	.238	.294
	Noise Criteria	–	20	26	30	34	37	40	43
	Throw	5-8-16	8-11-20	10-13-23	11-15-25	12-17-27	14-18-29	15-19-31	15-20-32
<b>8" Round Inlet</b>	Airflow, CFM	<b>80</b>	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>
	Total Pressure	.030	.047	.068	.093	.122	.154	.190	.230
	Noise Criteria	15	20	25	29	32	35	37	39
	Throw	8-11-20	10-13-23	11-15-25	12-17-27	14-18-29	15-19-31	15-20-32	16-21-33
<b>10" Oval Inlet</b>	Airflow, CFM	<b>100</b>	<b>120</b>	<b>140</b>	<b>160</b>	<b>180</b>	<b>200</b>	<b>220</b>	<b>240</b>
	Total Pressure	.040	.058	.078	.102	.130	.160	.194	.230
	Noise Criteria	19	23	27	30	33	35	37	39
	Throw	10-13-23	11-15-25	12-17-27	14-18-29	15-19-31	15-20-32	16-21-33	17-22-35

#### 3 Slot • 48" (1219) Long

<b>6" Round Inlet</b>	Airflow, CFM	<b>125</b>	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>
	Total Pressure	.074	.107	.145	.190	.240	.297	.359	.427
	Noise Criteria	20	24	28	32	35	37	39	41
	Throw	8-13-23	10-15-27	12-17-30	14-19-32	15-21-35	16-22-37	18-23-39	19-25-40
<b>8" Round Inlet</b>	Airflow, CFM	<b>150</b>	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>
	Total Pressure	.057	.077	.101	.128	.157	.191	.227	.266
	Noise Criteria	20	24	27	30	33	35	37	39
	Throw	10-15-27	12-17-30	14-19-32	15-21-35	16-22-37	18-23-39	19-25-40	20-26-42
<b>10" Oval Inlet</b>	Airflow, CFM	<b>175</b>	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>	<b>350</b>
	Total Pressure	.051	.067	.085	.104	.126	.150	.176	.204
	Noise Criteria	22	25	27	30	32	34	36	38
	Throw	12-17-30	14-19-32	15-21-35	16-22-37	18-23-39	19-25-40	20-26-42	20-27-43
<b>12" Oval Inlet</b>	Airflow, CFM	<b>200</b>	<b>225</b>	<b>250</b>	<b>275</b>	<b>300</b>	<b>325</b>	<b>350</b>	<b>375</b>
	Total Pressure	.041	.052	.064	.077	.092	.108	.125	.143
	Noise Criteria	20	23	26	28	30	32	34	38
	Throw	14-19-32	15-21-35	16-22-37	18-23-39	19-25-40	20-26-42	20-27-43	21-28-45

#### 3 Slot • 60" (1524) Long

<b>8" Round Inlet</b>	Airflow, CFM	<b>180</b>	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>
	Total Pressure	.069	.094	.123	.156	.192	.233	.277	.325
	Noise Criteria	21	25	28	31	34	36	38	40
	Throw	11-16-29	13-19-33	15-21-36	16-22-38	18-24-40	19-26-42	20-27-44	21-28-46
<b>10" Oval Inlet</b>	Airflow, CFM	<b>210</b>	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>	<b>420</b>
	Total Pressure	.064	.084	.106	.131	.159	.189	.222	.257
	Noise Criteria	23	26	28	31	33	35	37	39
	Throw	13-19-33	15-21-36	16-22-38	18-24-40	19-26-42	20-27-44	21-28-46	22-29-48
<b>12" Oval Inlet</b>	Airflow, CFM	<b>240</b>	<b>270</b>	<b>300</b>	<b>330</b>	<b>360</b>	<b>390</b>	<b>420</b>	<b>450</b>
	Total Pressure	.049	.063	.077	.093	.111	.130	.151	.174
	Noise Criteria	22	24	27	29	31	33	35	37
	Throw	15-21-36	16-22-38	18-24-40	19-26-42	20-27-44	21-28-46	22-29-48	23-30-49

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. Total Pressure is in inches w.g..
3. Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
4. Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

5. Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
6. Dash (–) in space indicates an Noise Criteria level of less than 15.

7. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
<b>1</b>	.024	.039
<b>2</b>	.049	.078
<b>3</b>	.073	.117
<b>4</b>	.098	.156

## PERFORMANCE DATA:

### MODEL 5375(I) • 3/4" (19) SLOT WIDTH

#### 4 Slot • 24" (610) Long

6" Round Inlet	Airflow, CFM	75	100	125	150	175	200	225	250
	Total Pressure	.033	.058	.091	.131	.179	.233	.295	.365
	Noise Criteria	16	21	27	31	35	38	41	44
	Throw	6-9-18	9-13-22	11-16-26	13-18-29	14-20-31	15-22-33	17-23-35	18-24-37
8" Round Inlet	Airflow, CFM	100	125	150	175	200	225	250	275
	Total Pressure	.031	.049	.070	.095	.124	.157	.194	.235
	Noise Criteria	17	22	26	31	34	37	39	41
	Throw	9-13-22	11-16-26	13-18-29	14-20-31	15-22-33	17-23-35	18-24-37	19-25-38
10" Oval Inlet	Airflow, CFM	125	150	175	200	225	250	275	300
	Total Pressure	.042	.060	.082	.107	.135	.167	.202	.240
	Noise Criteria	21	24	27	31	34	36	38	40
	Throw	11-16-26	13-18-29	14-20-31	15-22-33	17-23-35	18-24-37	19-25-38	19-27-39

#### 4 Slot • 48" (1219) Long

6" Round Inlet	Airflow, CFM	160	190	220	250	280	310	340	370
	Total Pressure	.074	.159	.213	.275	.345	.422	.508	.602
	Noise Criteria	23	27	30	33	35	38	40	42
	Throw	9-14-27	12-18-31	14-20-34	16-22-37	17-24-39	19-26-42	20-28-44	21-29-46
8" Round Inlet	Airflow, CFM	190	220	250	280	310	340	370	400
	Total Pressure	.071	.096	.124	.155	.190	.229	.271	.317
	Noise Criteria	22	25	28	31	33	36	38	40
	Throw	12-18-31	14-20-34	16-22-37	17-24-39	19-26-42	20-28-44	21-29-46	22-31-47
10" Oval Inlet	Airflow, CFM	220	250	280	310	340	370	400	430
	Total Pressure	.064	.082	.103	.126	.152	.180	.210	.243
	Noise Criteria	22	25	28	31	33	35	37	39
	Throw	14-20-34	16-22-37	17-24-39	19-26-42	20-28-44	21-29-46	22-31-47	23-32-49
12" Oval Inlet	Airflow, CFM	250	280	310	340	370	400	430	460
	Total Pressure	.046	.057	.070	.084	.100	.117	.135	.155
	Noise Criteria	21	24	27	29	31	33	35	37
	Throw	16-22-37	17-24-39	19-26-42	20-28-44	21-29-46	22-31-47	23-32-49	24-33-50

#### 4 Slot • 60" (1524) Long

8" Round Inlet	Airflow, CFM	220	260	300	340	380	420	460	500
	Total Pressure	.089	.124	.165	.212	.265	.324	.389	.459
	Noise Criteria	22	26	29	32	35	37	39	41
	Throw	12-18-33	15-21-37	17-24-40	19-27-43	20-29-46	22-31-49	23-33-51	25-34-53
10" Oval Inlet	Airflow, CFM	260	300	340	380	420	460	500	540
	Total Pressure	.077	.103	.132	.165	.201	.242	.285	.333
	Noise Criteria	23	26	29	32	35	37	39	41
	Throw	15-21-37	17-24-40	19-27-43	20-29-46	22-31-49	23-33-51	25-34-53	26-36-55
12" Oval Inlet	Airflow, CFM	300	340	380	420	460	500	540	580
	Total Pressure	.053	.068	.085	.104	.124	.147	.171	.198
	Noise Criteria	22	25	28	30	33	35	37	39
	Throw	17-24-40	19-27-43	20-29-46	22-31-49	23-33-51	25-34-53	26-36-55	27-37-57

#### Performance Notes:

- Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Total Pressure is in inches w.g..
- Noise Criteria [NC] values based on 10 dB room absorption, re 10<sup>-12</sup> watts.
- Cataloged throws are for a one-way horizontal air pattern. For divided airflow, deduce the airflow in each direction according to the number of slots, with the total airflow apportioned

between the slots. Look up throw for the airflow in each direction according to the number of slots in that direction.

- Performance data is based upon the standard **5300 Series** Model. The **5300MP** Modified Performance Series reduces the tabulated throw values by approximately 25%. Horizontal spread values are approximately 150% of the horizontal throw (T) projection values.
- Dash (–) in space indicates an Noise Criteria level of less than 15.

- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70–2023.

Number of Slots	Ak Factor per foot	
	Supply	Return
1	.024	.039
2	.049	.078
3	.073	.117
4	.098	.156