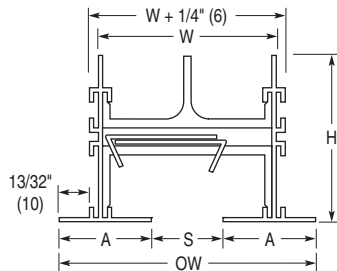




FLOWLINE™ LINEAR SLOT DIFFUSERS **ARCHITECTURAL • ALUMINUM** **HORIZONTAL HIGH THROW PATTERN CONTROLLERS** **MODEL SERIES: FLH TYPES AA & AAC**

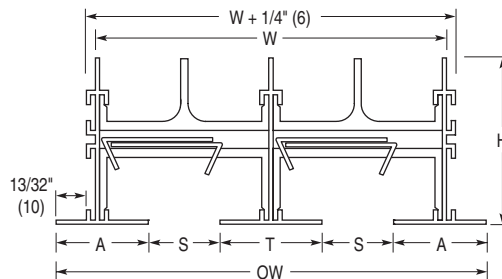
One Slot

- ☐ **Type AA Exposed Flange Frame**
 • Drywall (ceiling, wall), T-Bar



Two Slot

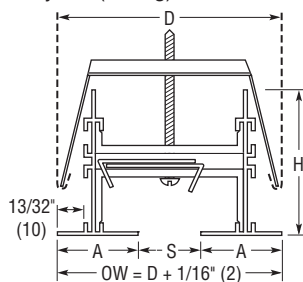
- ☐ **Type AA Exposed Flange Frame**
 • Drywall (ceiling, wall), T-Bar



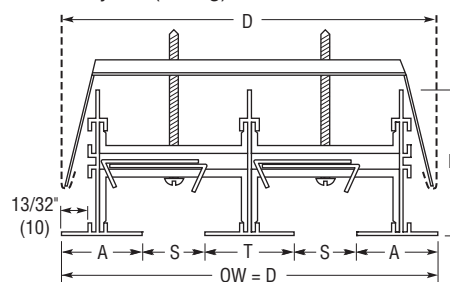
Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot		2 Slot		A Border Width	H Height	T 2 Slot
		W	OW	W	OW			
FLH10	1 (25)	2 1/2 (64)	3 9/16 (90)	4 15/16 (125)	6 (152)	1 9/32 (33)	2 3/8 (60)	1 7/16 (37)
FLH15	1 1/2 (38)	3 1/2 (89)	4 9/16 (116)	6 15/16 (176)	8 (203)	1 17/32 (39)	2 5/8 (67)	1 15/16 (49)
FLH20	2 (51)	4 1/2 (114)	5 9/16 (141)	8 15/16 (227)	10 (254)	1 25/32 (45)	2 7/8 (73)	2 7/16 (62)
FLH25	2 1/2 (64)	5 1/2 (140)	6 9/16 (167)	10 15/16 (278)	12 (305)	2 1/32 (52)	3 1/8 (79)	2 15/16 (75)
FLH30	3 (76)	6 1/2 (165)	7 9/16 (192)	12 15/16 (329)	14 (356)	2 9/32 (58)	3 3/8 (86)	3 7/16 (87)

- ☐ **Type AAC Exposed Flange Frame**
 • Drywall (ceiling)



- ☐ **Type AAC Exposed Flange Frame**
 • Drywall (ceiling)



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	D Duct Width		Ceiling Opening Width		A Border Width	H Height	T 2 Slot
		1 Slot	2 Slot	1 Slot	2 Slot			
FLH10	1 (25)	3 1/2 (89)	6 (152)	3 (76)	5 1/2 (140)	1 9/32 (33)	2 3/8 (60)	1 7/16 (37)
FLH15	1 1/2 (38)	4 1/2 (114)	8 (203)	4 (102)	7 1/2 (191)	1 17/32 (39)	2 5/8 (67)	1 15/16 (49)
FLH20	2 (51)	5 1/2 (140)	10 (254)	5 (127)	9 1/2 (241)	1 25/32 (45)	2 7/8 (73)	2 7/16 (62)
FLH25	2 1/2 (64)	6 1/2 (165)	12 (305)	6 (152)	11 1/2 (292)	2 1/32 (52)	3 1/8 (79)	2 15/16 (75)
FLH30	3 (76)	7 1/2 (191)	14 (356)	7 (178)	13 1/2 (343)	2 9/32 (58)	3 3/8 (86)	3 7/16 (87)

Notes:

- Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
- Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
- Adjustable pattern controllers are on 24" (610) centers.
- AW Appliance White finish with black pattern controllers and interior surfaces is standard on frame/borders AA and AAC. Optional finishes are available.
- Frame/Border Type AA is supplied w/integral hanger brackets on 24" (610) centers. Frame/Border Type AAC is supplied with concealed mounting brackets and levelling screws on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Option:

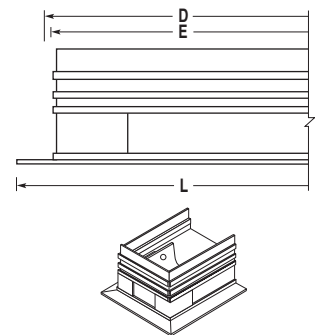
- ☐ SP Special Finish _____.

Overall Length & End Cap Position

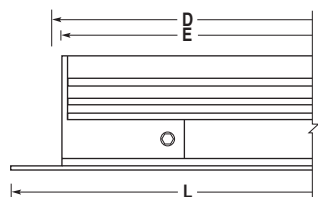
	E	L
☐ MM	D - 1/4 (6)	D + 9/16 (14)
☐ MO	D - 1/8 (3)	D + 9/32 (7)
☐ MC	D - 1/16 (2)	D + 11/32 (9)
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)
☐ FF	D - 1/4 (6)	D + 1 5/8 (41)
☐ FO	D - 1/8 (3)	D + 13/16 (21)
☐ FC	D - 1/16 (2)	D + 7/8 (22)

End Condition

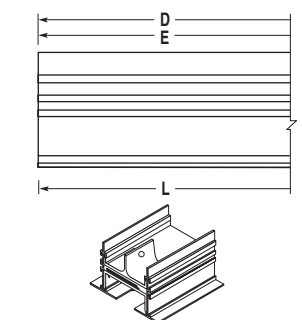
M Mitered End Border



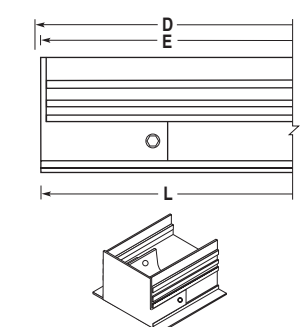
F Flanged End Cap Type AA Border Only



O Open End



C Flat End Cap



Dimensions are in inches (mm).

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

DATE

B SERIES

SUPERSEDES

DRAWING NO.

2 - 11 - 22

FL

4 - 12 - 16R

FLH-1

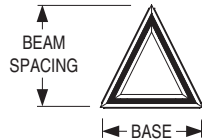
AVAILABLE SHAPES FOR ARMSTRONG® DESIGNFLEX™ CEILINGS

(All views are face views.)

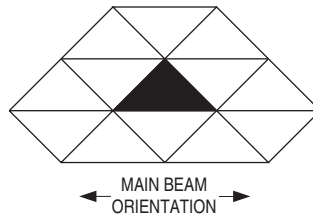
Triangles

NOMINAL 60° TRIANGLE

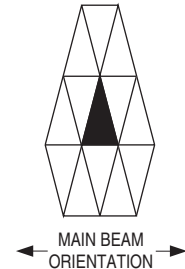
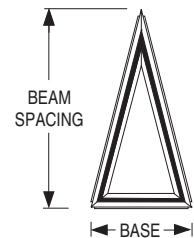
☐ 24" BEAM SPACING x 24" BASE

☐ 48" BEAM SPACING x 48" BASE


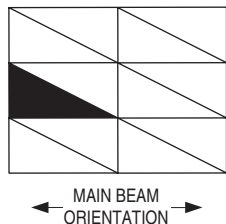
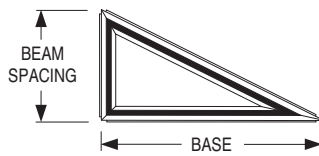
NOMINAL 45° TRIANGLE

☐ 24" BEAM SPACING x 48" BASE


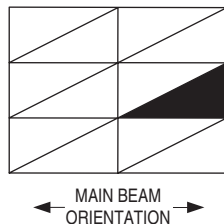
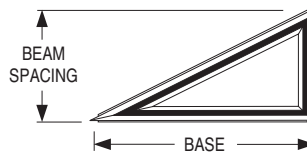
NOMINAL 75° TRIANGLE

☐ 48" BEAM SPACING x 24" BASE


90° TRIANGLE, LEFT

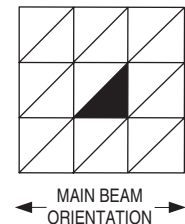
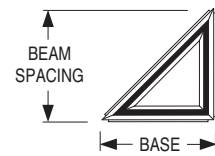
☐ 24" BEAM SPACING x 48" BASE


90° TRIANGLE, RIGHT

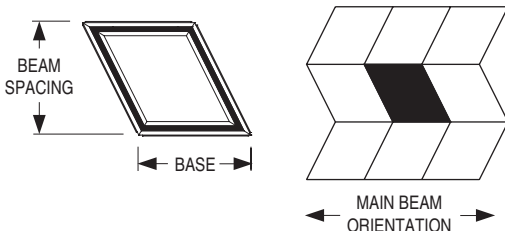
☐ 24" BEAM SPACING x 48" BASE


90° TRIANGLE, SYMMETRICAL

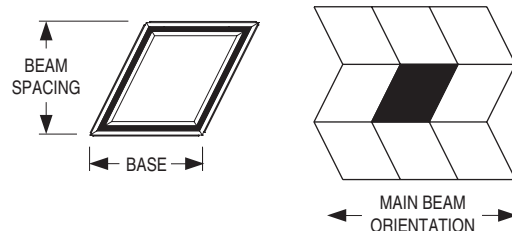
☐ 24" BEAM SPACING x 24" BASE

☐ 48" BEAM SPACING x 48" BASE

Parallelograms

NOMINAL 60° PARALLELOGRAM, LEFT

☐ 24" BEAM SPACING x 24" BASE


NOMINAL 60° PARALLELOGRAM, RIGHT

☐ 24" BEAM SPACING x 24" BASE

SCHEDULE TYPE:
PROJECT:
ENGINEER:
CONTRACTOR:

 Page 1 of 2
 Dimensions are in inches (mm).

DATE
B SERIES
SUPERSEDES
DRAWING NO.

7 - 15 - 22

FLH

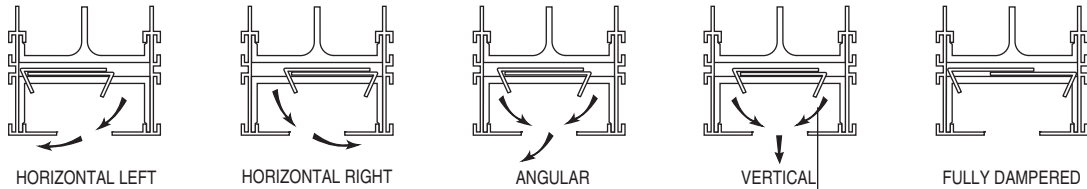
3 - 28 - 22

FLH10-SHP

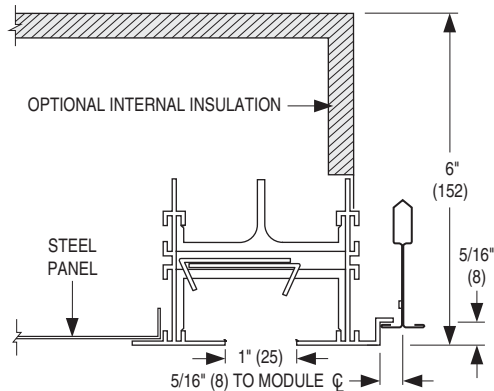


FLOWLINE™ SHAPES SLOT DIFFUSERS
ARCHITECTURAL • ALUMINUM
HORIZONTAL HIGH THROW PATTERN CONTROLLERS
MODEL SERIES: FLH10-SHP

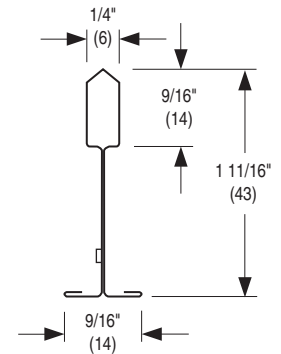
FLH Series Pattern Controller Adjustment



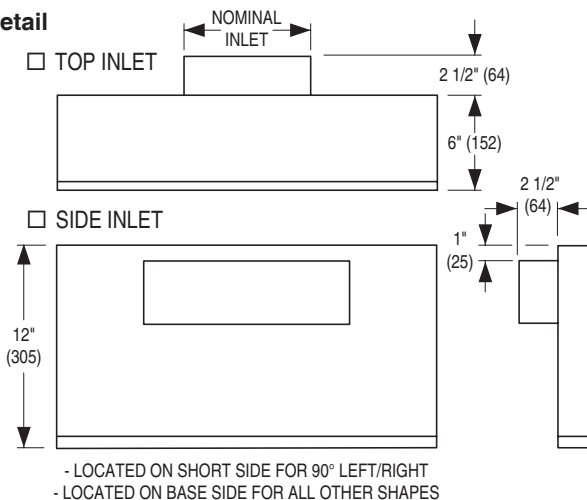
Standard Mounting Style
Frame/Border Type ATZ1 for 9/16" (14) Flat T-Bar Tegular Ceiling (Suprafine®)



Suprafine®
T-Bar Detail



Plenum Detail



Available Inlet Sizes

Top Inlet - Round

Ceiling Module	Nominal Size
24 x 24 (610 x 610)	6, 8 (152, 203)
24 x 48 (610 x 1219)	8, 10 (203, 254)
48 x 24 (1219 x 610)	8, 10 (203, 254)
48 x 48 (1219 x 1219)	10, 12 (254, 305)

Side Inlet - Rectangular

Ceiling Module	Nominal Size
24 x 24 (610 x 610)	7 x 4 (178 x 102), 13 x 4 (330 x 102)
24 x 48 (610 x 1219)	13 x 4 (330 x 102), 13 x 6 (330 x 152)
48 x 24 (1219 x 610)	13 x 4 (330 x 102), 13 x 6 (330 x 152)
48 x 48 (1219 x 1219)	13 x 6 (330 x 152), 19 x 6 (483 x 152)

Description:

- Extruded aluminum frame and spacers with corrosion resistant steel pattern controllers. Plenum is coated steel.
- 1" (25) slot width.
- Factory precision welding on all mitered corners. Mitered corner sections are inactive.
- Standard finish is AW Appliance White face w/black pattern controllers. Other finishes available.

Notes:

- By adjusting pattern controllers; the flow from each side may be redirected or closed off.
- Armstrong®, Designflex™ and Suprafine® are trademarks of AWI Licensing LLC.

Options:

- ☐ FGI 1/4" (6.35) coated fiberglass internal insulation.

Finish:

- ☐ BW British White face with black pattern controllers.
- ☐ SP Custom Matched Color face with black pattern controllers.

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

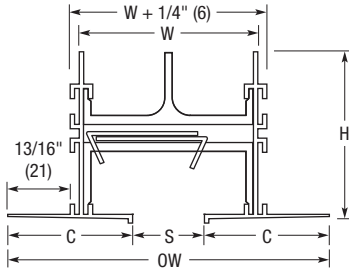
Page 2 of 2
 Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
7 - 15 - 22	FLH	3 - 28 - 22	FLH10-SHP

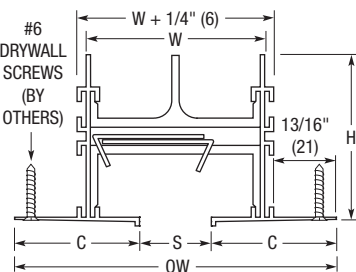
CONCEALED SURFACE MOUNT APPLICATION • DRYWALL (CEILING/WALL) TAPE & SPACKLE

One Slot

☐ **Type CC Concealed Tapered Frame**

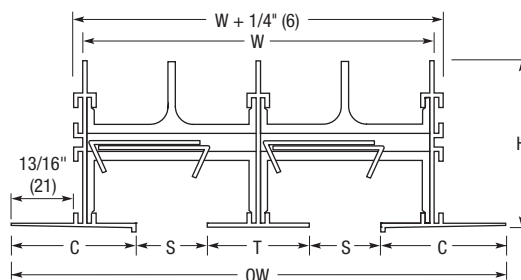


☐ **Type CCA Concealed Tapered Frame with Countersunk Screw Holes**

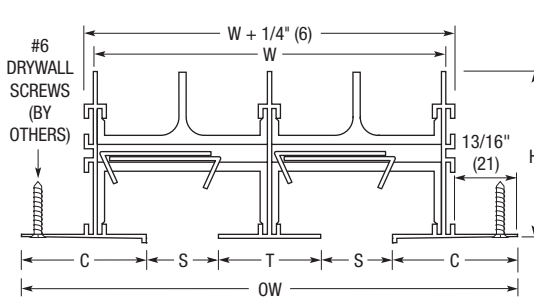


Two Slot

☐ **Type CC Concealed Tapered Frame**

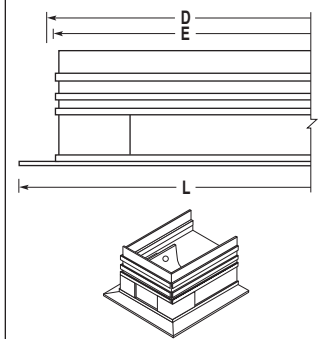


☐ **Type CCA Concealed Tapered Side Frame with Countersunk Screw Holes**

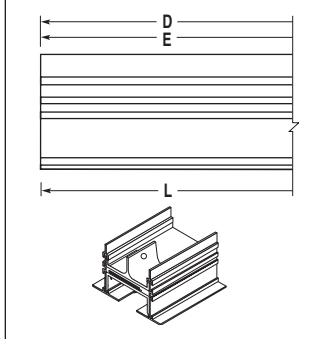


End Condition

M Mitered End Border



O Open End



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot		2 Slot		C Border Width	H Height	T 2 Slot
		W	OW	W	OW			
FLH10	1 (25)	2 1/2 (64)	4 3/8 (111)	4 15/16 (125)	6 13/16 (173)	1 11/16 (43)	2 3/8 (60)	1 7/16 (37)
FLH15	1 1/2 (38)	3 1/2 (89)	5 3/8 (137)	6 15/16 (176)	8 13/16 (224)	1 15/16 (49)	2 5/8 (67)	1 15/16 (49)
FLH20	2 (51)	4 1/2 (114)	6 3/8 (162)	8 15/16 (227)	10 13/16 (275)	2 3/16 (56)	2 7/8 (73)	2 7/16 (62)
FLH25	2 1/2 (64)	5 1/2 (140)	7 3/8 (187)	10 15/16 (278)	12 13/16 (325)	2 7/16 (62)	3 1/8 (79)	2 15/16 (75)
FLH30	3 (76)	6 1/2 (165)	8 3/8 (213)	12 15/16 (329)	14 13/16 (376)	2 11/16 (68)	3 3/8 (86)	3 7/16 (87)

Notes:

- Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
- Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
- Adjustable pattern controllers are on 24" (610) centers.
- MI Mill finish is standard on frame/border CC with an AW Appliance White center tee on the 2 slot model. Pattern controllers and interior surfaces are black.
- Type CC and CCA have integral hanger brackets on 24" (610) centers. See separate submittal for Type CC optional mounting hardware and accessories.

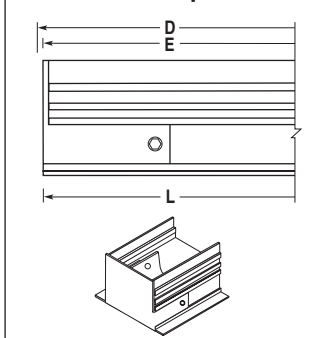
Options:

- ☐ SP Special Finish _____.

Overall Length and End Cap Position

	E	L
☐ MM	D - 1/4 (6)	D + 1 3/8 (35)
☐ MO	D - 1/8 (3)	D + 11/16 (17)
☐ MC	D - 1/16 (2)	D + 3/4 (19)
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)

C Flat End Cap



SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Page 1 of 2
Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

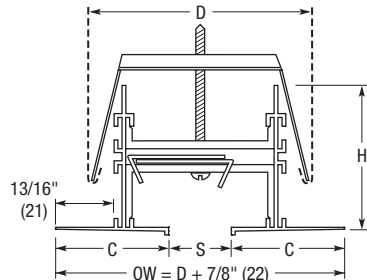
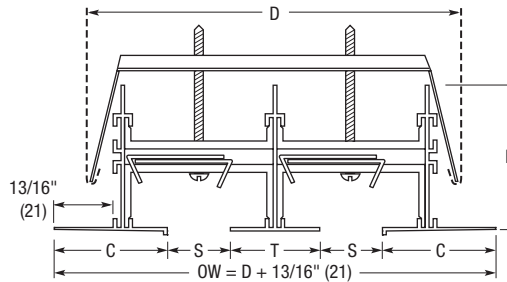
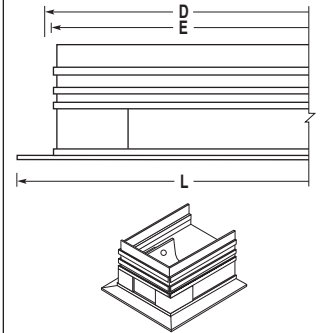
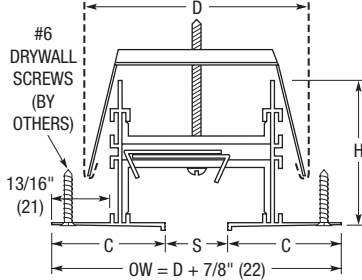
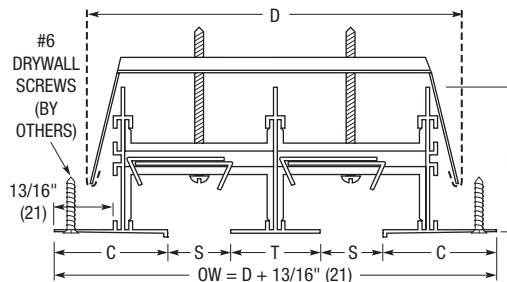
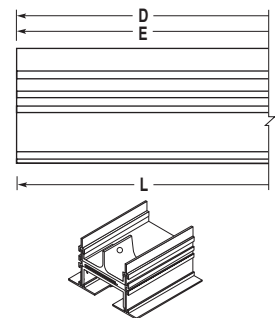
DRAWING NO.

12 - 19 - 22

FL

3 - 3 - 22

FLH-2A

One Slot
☐ **Type CCC Concealed Tapered Frame with Concealed Mounting Brackets**

Two Slot
☐ **Type CCC Concealed Tapered Side Frame with Concealed Mounting Brackets**

End Condition
M Mitered End Border

☐ **Type CCCA Concealed Tapered Frame with Concealed Mounting Brackets & Countersunk Screw Holes**

☐ **Type CCCA Concealed Tapered Side Frame with Concealed Mounting Brackets & Countersunk Screw Holes**

O Open End

Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	D Duct Width		C Border Width	H Height	T 2 Slot	Ceiling Opening Width	
		1 Slot	2 Slot				1 Slot	2 Slot
FLH10	1 (25)	3 1/2 (89)	6 (152)	1 11/16 (43)	2 3/8 (60)	1 7/16 (37)	3 (76)	5 1/2 (140)
FLH15	1 1/2 (38)	4 1/2 (114)	8 (203)	1 15/16 (49)	2 5/8 (67)	1 15/16 (49)	4 (102)	7 1/2 (191)
FLH20	2 (51)	5 1/2 (140)	10 (254)	2 3/16 (56)	2 7/8 (73)	2 7/16 (62)	5 (127)	9 1/2 (241)
FLH25	2 1/2 (64)	6 1/2 (165)	12 (305)	2 7/16 (62)	3 1/8 (79)	2 15/16 (75)	6 (152)	11 1/2 (292)
FLH30	3 (76)	7 1/2 (191)	14 (356)	2 11/16 (68)	3 3/8 (86)	3 7/16 (87)	7 (178)	13 1/2 (343)

Notes:

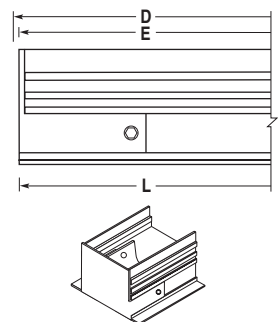
- Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
- Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
- Adjustable pattern controllers are on 24" (610) centers.
- MI Mill finish is standard on frame/borders CCC and CCCA with an AW Appliance White center tee on the 2 slot model. Pattern controllers and interior surfaces are black.
- Types CCC and CCCA are supplied with concealed mounting brackets and leveling screws on 24" (610) centers. See separate submittal for accessories.

Options:

- ☐
- SP Special Finish _____

Overall Length and End Cap Position

	E	L
☐ MM	D - 1/4 (6)	D + 1 3/8 (35)
☐ MO	D - 1/8 (3)	D + 11/16 (17)
☐ MC	D - 1/16 (2)	D + 3/4 (19)
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)

C Flat End Cap

SCHEDULE TYPE
PROJECT
ENGINEER
CONTRACTOR

 Page 2 of 2
 Dimensions are in inches (mm).

DATE
B SERIES
SUPERSEDES
DRAWING NO.

12 - 19 - 22

FL

3 - 3 - 22

FLH-2A



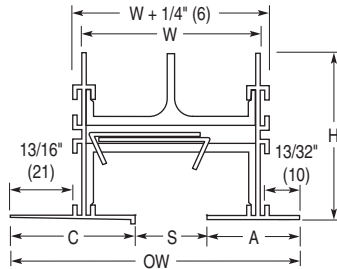
FLOWLINE™ LINEAR SLOT DIFFUSERS **ARCHITECTURAL • ALUMINUM** **MODEL SERIES: FLH AND FLV TYPE CA**

FLH Horizontal High Throw Pattern Controllers

One Slot

☐ **Type CA Concealed Tapered/ Exposed Flange Frame**

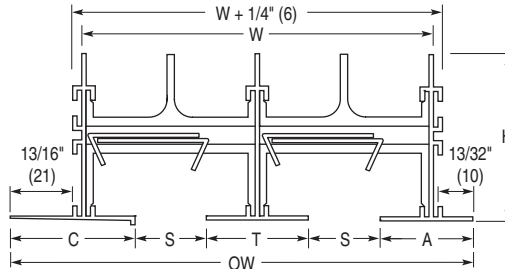
- Tape and Spackle (one side)
- Drywall (ceiling)



Two Slot

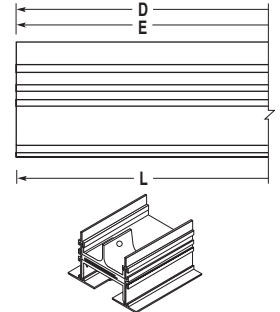
☐ **Type CA Concealed Tapered/ Exposed Flange Frame**

- Tape and Spackle (one side)
- Drywall (ceiling)

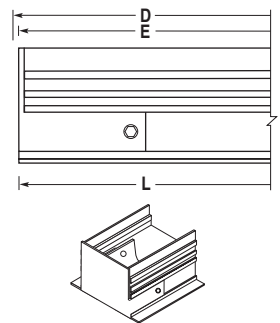


End Condition

O Open End



C Flat End Cap

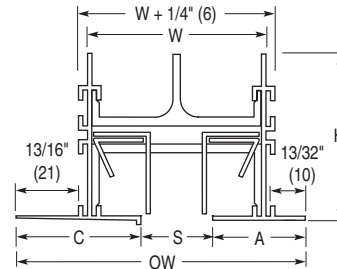


FLV Vertical Jet Throw Pattern Controllers

One Slot

☐ **Type CA Concealed Tapered/ Exposed Flange Frame**

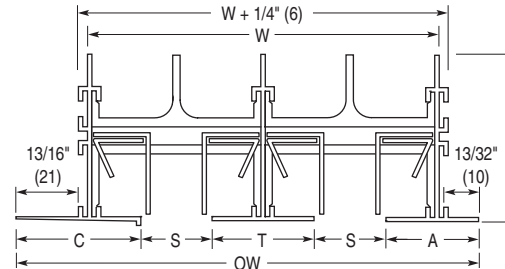
- Tape and Spackle (one side)
- Drywall (ceiling)



Two Slot

☐ **Type CA Concealed Tapered/ Exposed Flange Frame**

- Tape and Spackle (one side)
- Drywall (ceiling)



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot		2 Slot		C Border Width	A Border Width	H Height	T 2 Slot
		W	OW	W	OW				
FLH10, FLV10	1 (25)	2 1/2 (64)	3 31/32 (101)	4 15/16 (125)	6 13/32 (163)	1 11/16 (43)	1 9/32 (33)	2 3/8 (60)	1 7/16 (37)
FLH15, FLV15	1 1/2 (38)	3 1/2 (89)	4 31/32 (126)	6 15/16 (176)	8 13/32 (214)	1 15/16 (49)	1 17/32 (39)	2 5/8 (67)	1 15/16 (49)
FLH20, FLV20	2 (51)	4 1/2 (114)	5 31/32 (152)	8 15/16 (227)	10 13/32 (264)	2 3/16 (56)	1 25/32 (45)	2 7/8 (73)	2 7/16 (62)
FLH25, FLV25	2 1/2 (64)	5 1/2 (140)	6 31/32 (177)	10 15/16 (278)	12 13/32 (315)	2 7/16 (62)	2 1/32 (52)	3 1/8 (79)	2 15/16 (75)
FLH30, FLV30	3 (76)	6 1/2 (165)	7 31/32 (202)	12 15/16 (329)	14 13/32 (366)	2 11/16 (68)	2 9/32 (58)	3 3/8 (86)	3 7/16 (87)

Notes:

1. Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
2. Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
3. Adjustable pattern controllers are on 24" (610) centers.
4. MI Mill finish is standard on frame/border C with an AW Appliance White finish on frame/border A and center tee on the 2 slot model. Pattern controllers and interior surfaces are black.
5. Integral hanger brackets on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Options:

- ☐ SP Special Finish _____.

Overall Length and End Cap Position

	E	L
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Dimensions are in inches (mm).

DATE

3 - 3 - 22

B SERIES

FL

SUPERSEDES

9 - 26 - 18

DRAWING NO.

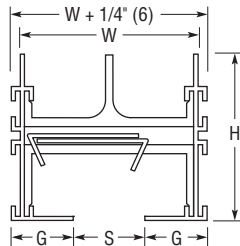
FLH-2C



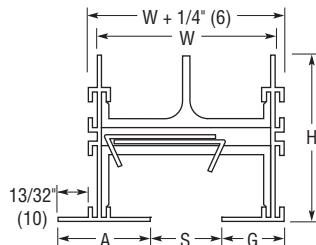
FLOWLINE™ LINEAR SLOT DIFFUSERS **ARCHITECTURAL • ALUMINUM** **HORIZONTAL JET THROW PATTERN CONTROLLERS** **MODEL SERIES: FLH TYPES GG & AG**

One Slot

- ☐ **Type GG Flangeless Frame**
• Drywall (ceiling, wall)

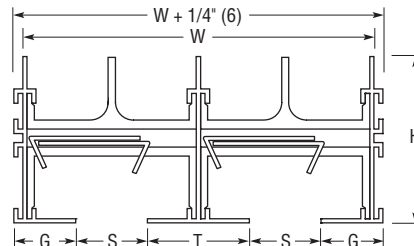


- ☐ **Type AG Flange / Flangeless Frame**
• Drywall (ceiling, wall)

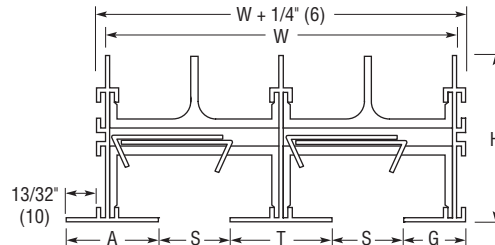


Two Slot

- ☐ **Type GG Flangeless Frame**
• Drywall (ceiling, wall)

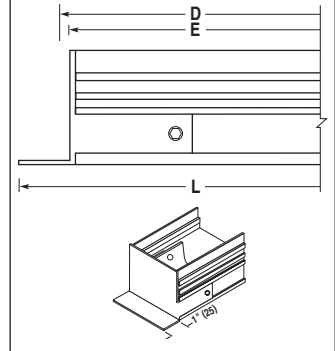


- ☐ **Type AG Flange / Flangeless Frame**
• Drywall (ceiling, wall)

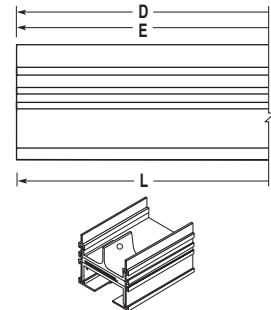


End Condition

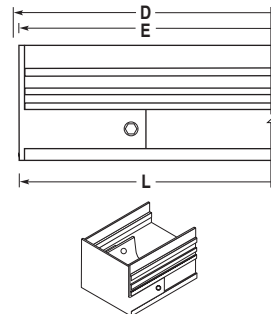
- F Flanged End Cap**



- O Open End**



- C Flat End Cap**



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot W	2 Slot W	A Border Width	G Border Width	H Height	T 2 Slot
FLH10	1 (25)	2 1/2 (64)	4 15/16 (125)	1 9/32 (33)	7/8 (22)	2 3/8 (60)	1 7/16 (37)
FLH15	1 1/2 (38)	3 1/2 (89)	6 15/16 (176)	1 17/32 (39)	1 1/8 (29)	2 5/8 (67)	1 15/16 (49)
FLH20	2 (51)	4 1/2 (114)	8 15/16 (227)	1 25/32 (45)	1 3/8 (35)	2 7/8 (73)	2 7/16 (62)
FLH25	2 1/2 (64)	5 1/2 (140)	10 15/16 (278)	2 1/32 (52)	1 5/8 (41)	3 1/8 (79)	2 15/16 (75)
FLH30	3 (76)	6 1/2 (165)	12 15/16 (329)	2 9/32 (58)	1 7/8 (48)	3 3/8 (86)	3 7/16 (87)

Notes:

- Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
- Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
- Adjustable pattern controllers are on 24" (610) centers.
- Standard finish is AW Appliance White baked enamel on exposed frames with black pattern controllers and interior surfaces.
- Integral hanger brackets on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Options:

- ☐ SP Special Finish _____.

Overall Length and End Cap Position

	E	L
☐ 00	D	D
☐ 0C	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)
☐ FF	D - 1/4 (6)	D + 1 5/8 (41)
☐ FO	D - 1/8 (3)	D + 13/16 (21)
☐ FC	D - 1/16 (2)	D + 7/8 (22)

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

3 - 3 - 22

FL

2 - 16 - 10

FLH-3

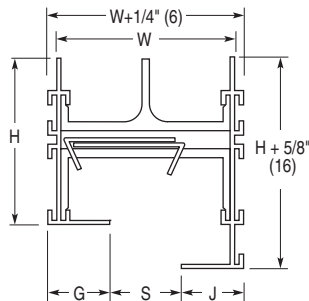


FLOWLINE™ LINEAR SLOT DIFFUSERS
ARCHITECTURAL • ALUMINUM
HORIZONTAL HIGH THROW PATTERN CONTROLLERS
MODEL SERIES: FLH TYPE GJ

One Slot

☐ **Type GJ Exposed/Concealed Offset Frame**

- Drywall (ceiling, wall)



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot W	G Border Width	J Border Width	H Height
FLH10	1 (25)	2 1/2 (64)	7/8 (22)	7/8 (22)	2 3/8 (60)
FLH15	1 1/2 (38)	3 1/2 (89)	1 1/8 (29)	1 1/8 (29)	2 5/8 (67)
FLH20	2 (51)	4 1/2 (114)	1 3/8 (35)	1 3/8 (35)	2 7/8 (73)
FLH25	2 1/2 (64)	5 1/2 (140)	1 5/8 (41)	1 5/8 (41)	3 1/8 (79)
FLH30	3 (76)	6 1/2 (165)	1 7/8 (48)	1 7/8 (48)	3 3/8 (86)

**Overall Length and End Cap
Position**

	E	L
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)

Notes:

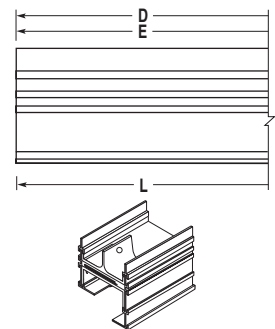
1. Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
2. Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
3. Adjustable pattern controllers are on 24" (610) centers.
4. Standard finish is AW Appliance White on exposed frames. Pattern controllers and interior surfaces are black.
5. Integral hanger brackets on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Options:

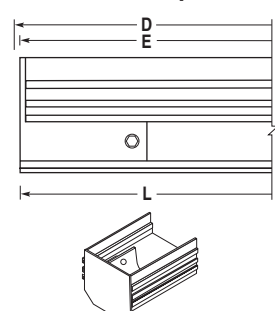
- ☐ SP Special Finish _____.

End Condition

O Open End



C Flat End Cap



SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

3 - 3 - 22

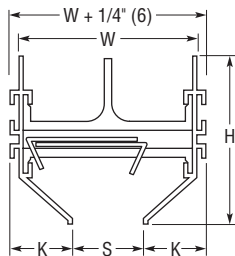
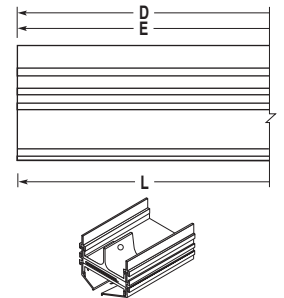
FL

8 - 1 - 17

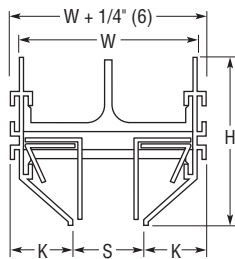
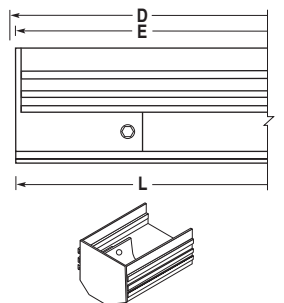
FLH-3B

FLH Horizontal High Throw Pattern Controllers
☐ **Type KK Concealed Angular Frame**

- Drywall (ceiling, wall)


End Condition
O Open End

FLV Vertical Jet Throw Pattern Controllers
☐ **Type KK Concealed Angular Frame**

- Drywall (ceiling, wall)


C Flat End Cap

Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot W	K Border Width	H Height
FLH10, FLV10	1 (25)	2 1/2 (64)	7/8 (22)	2 3/8 (60)
FLH15, FLV15	1 1/2 (38)	3 1/2 (89)	1 1/8 (29)	2 5/8 (67)
FLH20, FLV20	2 (51)	4 1/2 (114)	1 3/8 (35)	2 7/8 (73)

Notes:

1. Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
2. Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
3. Adjustable pattern controllers are on 24" (610) centers.
4. Standard finish is MI Mill on exposed frames with black pattern controllers and interior surfaces.
5. Integral hanger brackets on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Options:

- ☐
- SP Special Finish _____ .

Overall Length and End Cap Position

	E	L
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)

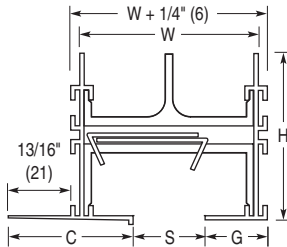
SCHEDULE TYPE
PROJECT
ENGINEER
CONTRACTOR

Dimensions are in inches (mm).

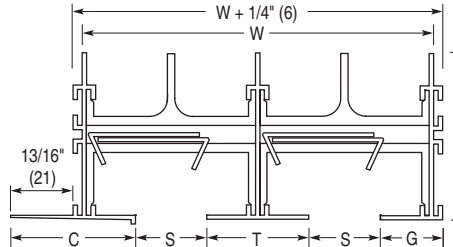
DATE
B SERIES
SUPERSEDES
DRAWING NO.
3 - 3 - 22
FL
5 - 10 - 18
FLH-3C

FLH Horizontal High Throw Pattern Controllers
One Slot

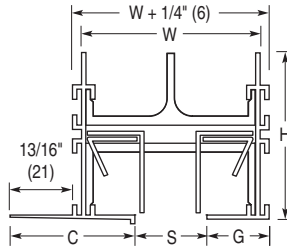
- ☐ **Type CG Concealed Tapered/Flangeless Frame**
- Tape and Spackle (one side)
 - Drywall (ceiling)


Two Slot

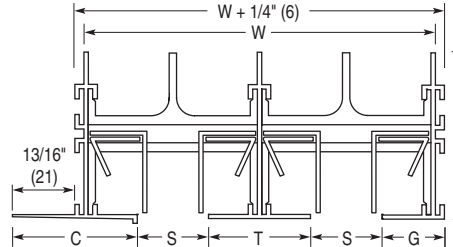
- ☐ **Type CG Concealed Tapered/Flangeless Frame**
- Tape and Spackle (one side)
 - Drywall (ceiling)


FLV Vertical Jet Throw Pattern Controllers
One Slot

- ☐ **Type CG Concealed Tapered/Exposed Flange Frame**
- Tape and Spackle (one side)
 - Drywall (ceiling)


Two Slot

- ☐ **Type CG Concealed Tapered/Exposed Flange Frame**
- Tape and Spackle (one side)
 - Drywall (ceiling)


Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot	2 Slot	C Border Width	G Border Width	H Height	T 2 Slot
		W	W				
FLH10, FLV10	1 (25)	2 1/2 (64)	4 15/16 (125)	1 11/16 (43)	7/8 (22)	2 3/8 (60)	1 7/16 (37)
FLH15, FLV15	1 1/2 (38)	3 1/2 (89)	6 15/16 (176)	1 15/16 (49)	1 1/8 (29)	2 5/8 (67)	1 15/16 (49)
FLH20, FLV20	2 (51)	4 1/2 (114)	8 15/16 (227)	2 3/16 (56)	1 3/8 (35)	2 7/8 (73)	2 7/16 (62)
FLH25, FLV25	2 1/2 (64)	5 1/2 (140)	10 15/16 (278)	2 7/16 (62)	1 5/8 (41)	3 1/8 (79)	2 15/16 (75)
FLH30, FLV30	3 (76)	6 1/2 (165)	12 15/16 (329)	2 11/16 (68)	1 7/8 (48)	3 3/8 (86)	3 7/16 (87)

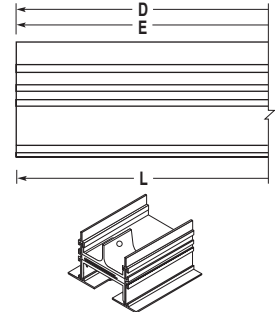
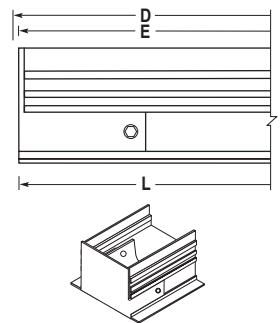
Notes:

1. Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
2. Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
3. Adjustable pattern controllers are on 24" (610) centers.

4. MI Mill finish is standard on frame/border C with an AW Appliance White finish on frame/border G and center tee on the 2 slot model. Pattern controllers and interior surfaces are black.
5. Integral hanger brackets on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Options:

- ☐ SP Special Finish _____.

End Condition
O Open End

C Flat End Cap

Overall Length and End Cap Position

	E	L
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)

SCHEDULE TYPE
PROJECT
ENGINEER
CONTRACTOR

Dimensions are in inches (mm).

DATE
B SERIES
SUPERSEDES
DRAWING NO.

3 - 3 - 22

FL

9 - 26 - 18R

FLH-3F



FLOWLINE™ LINEAR SLOT DIFFUSERS **ACCESSORIES** **SUPPLY AIR ENGINEERED PLENUMS** **MODEL SERIES: FLP**

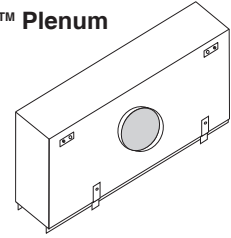
Uninsulated Models:

- ☐ FLP10 • 1" (25) Slot
- ☐ FLP15 • 1 1/2" (38) Slot
- ☐ FLP20 • 2" (51) Slot
- ☐ FLP25 • 2 1/2" (64) Slot
- ☐ FLP30 • 3" (76) Slot

Internally Insulated Models:

- ☐ FLPI10 • 1" (25) Slot
- ☐ FLPI15 • 1 1/2" (38) Slot
- ☐ FLPI20 • 2" (51) Slot
- ☐ FLPI25 • 2 1/2" (64) Slot
- ☐ FLPI30 • 3" (76) Slot

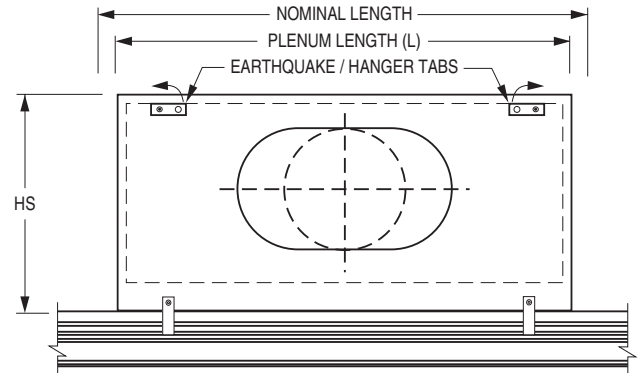
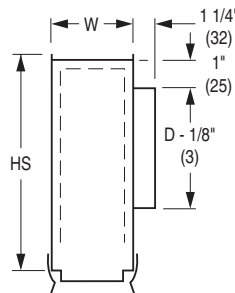
Flowline™ Plenum



- ☐ **Straight Leg (Direct Attachment)**
For use with Frame / Border Types
AA, CA, CC, CCA, CG, GG, GJ,
KK, LT, NT

Plenum Height (HS):

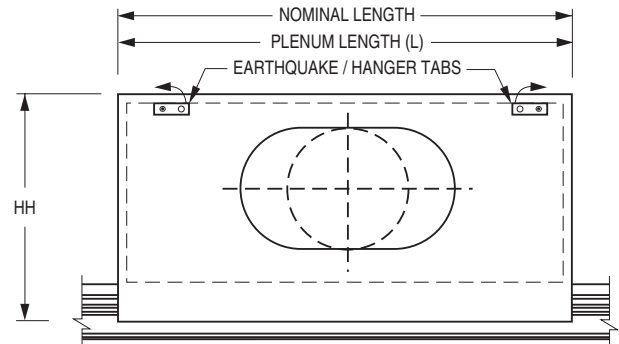
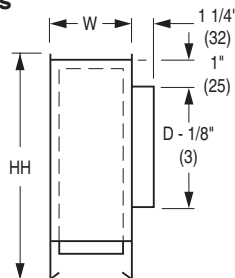
One Slot 10" (254)
Two Slot 16" (406)



- ☐ **Hemmed Leg (For concealed mounting bracket)**
For use with Frame / Border Types
AAC, CCC, CCCA

Plenum Height (HH):

One Slot 12" (305)
Two Slot 18" (457)



Dimensional Data

Nominal Length	Actual Plenum Length (L) for Frame/Border Type		Available Inlet Sizes D	
	AA, CA, CC, CCA, CG, GG, GJ, KK, LT, NT	AAC, CCC, CCCA	1 Slot	2 Slot
24 (610)	20 3/4 (527)	24 (610)	6 (152), 8 (203)	6 (152), 8 (203), Round
30 (762)	26 3/4 (679)	30 (762)	10 (254), 12 (305), 14 (356)	10 (254), 12 (305), 14 (356), Round
36 (914)	32 3/4 (832)	36 (914)	Flat Oval*	
48 (1219)	44 3/4 (1137)	48 (1219)		
60 (1524)	56 3/4 (1441)	60 (1524)		
72 (1829)	68 3/4 (1746)	72 (1829)		

Plenum Model	Width (W) for Frame/Border Type Noted			
	AA, CA, CC, CCA, CG, GG, GJ, KK, LT, NT		AAC, CCC, CCCA	
	1 Slot	2 Slot	1 Slot	2 Slot
FLP(I)10	2 3/4 (70)	5 3/16 (132)	3 1/2 (89)	5 15/16 (151)
FLP(I)15	3 3/4 (95)	7 3/16 (183)	4 1/2 (114)	7 15/16 (202)
FLP(I)20	4 3/4 (121)	9 3/16 (233)	5 1/2 (140)	9 15/16 (252)
FLP(I)25	5 3/4 (146)	11 3/16 (284)	6 1/2 (165)	11 15/16 (303)
FLP(I)30	6 3/4 (171)	13 3/16 (335)	7 1/2 (191)	13 15/16 (354)

* **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).

Notes:

- Heavy gauge corrosion resistant steel construction.
- Earthquake tabs are standard.
- Straight leg plenums are supplied with spring clips.

Options:

- ☐ EX External Foil Back Insulation.
- ☐ ID ID Inlet damper.
- ☐ NI No Inlet.

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

4 - 13 - 21

FL

2 - 23 - 21

FLP-1



FLOWLINE™ LINEAR DIFFUSER PLENUMS WITH CABLE OPERATED INLET DAMPER **FLOWLINE™ LINEAR SLOT DIFFUSER ACCESSORY** **MODEL SERIES: FLP WITH IDCO OPTION**

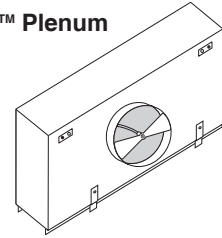
Uninsulated Models:

- ☐ FLP10 • 1" (25) Slot
- ☐ FLP15 • 1 1/2" (38) Slot
- ☐ FLP20 • 2" (51) Slot
- ☐ FLP25 • 2 1/2" (64) Slot
- ☐ FLP30 • 3" (76) Slot

Internally Insulated Models:

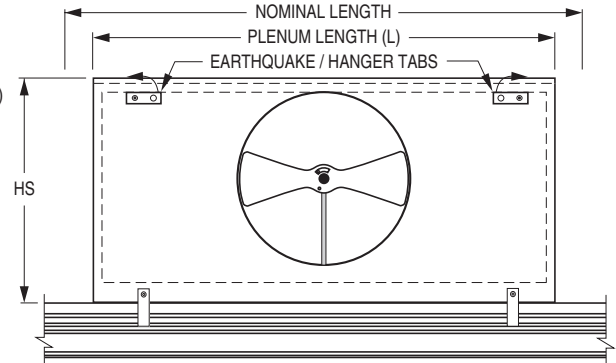
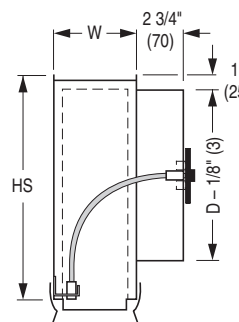
- ☐ FLPI10 • 1" (25) Slot
- ☐ FLPI15 • 1 1/2" (38) Slot
- ☐ FLPI20 • 2" (51) Slot
- ☐ FLPI25 • 2 1/2" (64) Slot
- ☐ FLPI30 • 3" (76) Slot

Flowline™ Plenum



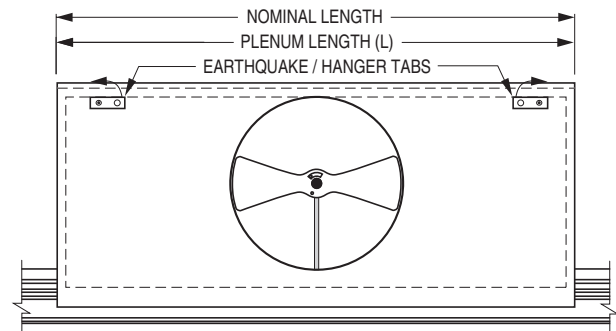
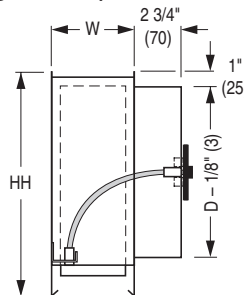
- ☐ **Straight Leg (Direct Attachment)**
For use with Frame / Border Types AA, CA, CC, CCA, CG, GG, GJ, KK, LT, NT

Inlet Size D (Round)	Plenum Height HS	
	1 Slot	2 Slot
6 (152), 8 (203)	10 (254)	16 (406)
10 (254)	13 (330)	16 (406)
12 (305)	15 (381)	16 (406)
14 (356)	17 (432)	17 (432)



- ☐ **Hemmed Leg (For concealed mounting bracket)**
For use with Frame / Border Types AAC, CCC, CCCA

Inlet Size D (Round)	Plenum Height HH	
	1 Slot	2 Slot
6 (152), 8 (203)	12 (305)	18 (457)
10 (254)	13 (330)	18 (457)
12 (305)	15 (381)	18 (457)
14 (356)	17 (432)	18 (457)



Dimensional Data

Nominal Length	Actual Plenum Length (L) for Frame/Border Type	
	AA, CA, CC, CCA, CG, GG, GJ, KK, LT, NT	AAC, CCC, CCCA
24 (610)	20 3/4 (527)	24 (610)
30 (762)	26 3/4 (679)	30 (762)
36 (914)	32 3/4 (832)	36 (914)
48 (1219)	44 3/4 (1137)	48 (1219)
60 (1524)	56 3/4 (1441)	60 (1524)
72 (1829)	68 3/4 (1746)	72 (1829)

Plenum Model	Width (W) for Frame/Border Type Noted			
	AA, CA, CC, CCA, CG, GG, GJ, KK, LT, NT		AAC, CCC, CCCA	
	1 Slot	2 Slot	1 Slot	2 Slot
FLP(I)10	2 3/4 (70)	5 3/16 (132)	3 1/2 (89)	5 15/16 (151)
FLP(I)15	3 3/4 (95)	7 3/16 (183)	4 1/2 (114)	7 15/16 (202)
FLP(I)20	4 3/4 (121)	9 3/16 (233)	5 1/2 (140)	9 15/16 (252)
FLP(I)25	5 3/4 (146)	11 3/16 (284)	6 1/2 (165)	11 15/16 (303)
FLP(I)30	6 3/4 (171)	13 3/16 (335)	7 1/2 (191)	13 15/16 (354)

Notes:

- Heavy gauge corrosion-resistant steel construction.
- Earthquake tabs are standard.
- Straight leg plenums are supplied with spring clips.
- The round inlet damper is Nailor's 4250 radial sliding blade design factory mounted on the inlet. 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.

Options:

- ☐ EX External Foil Back Insulation.

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

4 - 13 - 21

FL

1 - 26 - 21

FLP-2

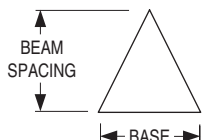
AVAILABLE SHAPES FOR ARMSTRONG® DESIGNFLEX™ CEILINGS

(All views are face views.)

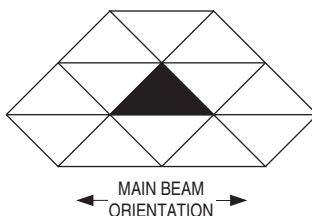
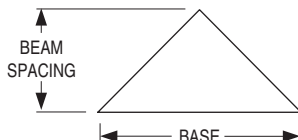
Triangles

NOMINAL 60° TRIANGLE

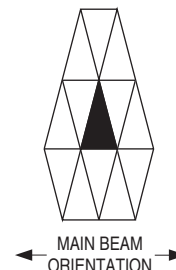
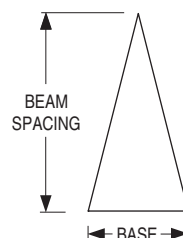
☐ 24" BEAM SPACING x 24" BASE

☐ 48" BEAM SPACING x 48" BASE


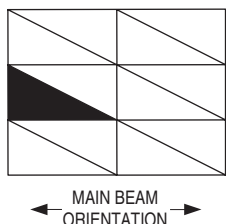
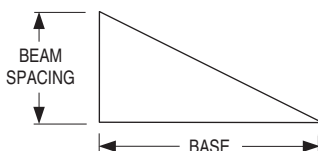
NOMINAL 45° TRIANGLE

☐ 24" BEAM SPACING x 48" BASE


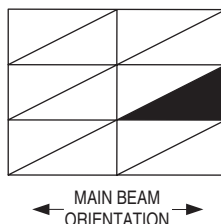
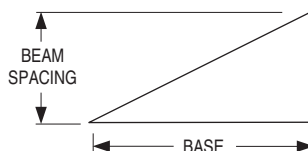
NOMINAL 75° TRIANGLE

☐ 48" BEAM SPACING x 24" BASE


90° TRIANGLE, LEFT

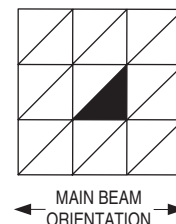
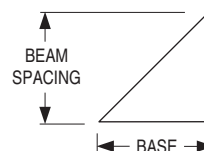
☐ 24" BEAM SPACING x 48" BASE


90° TRIANGLE, RIGHT

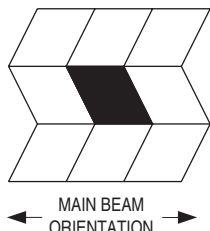
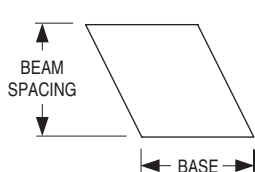
☐ 24" BEAM SPACING x 48" BASE


90° TRIANGLE, SYMMETRICAL

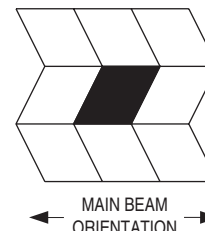
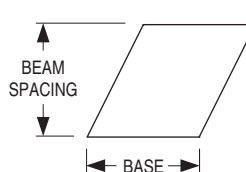
☐ 24" BEAM SPACING x 24" BASE

☐ 48" BEAM SPACING x 48" BASE

Parallelograms

NOMINAL 60° PARALLELOGRAM, LEFT

☐ 24" BEAM SPACING x 24" BASE


NOMINAL 60° PARALLELOGRAM, RIGHT

☐ 24" BEAM SPACING x 24" BASE

SCHEDULE TYPE:
PROJECT:
ENGINEER:
CONTRACTOR:

 Page 1 of 2
 Dimensions are in inches (mm).

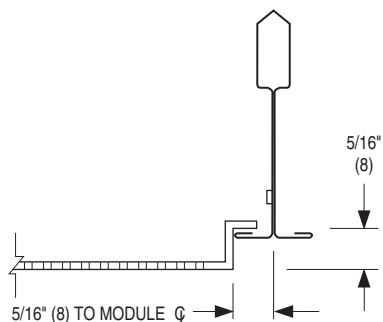
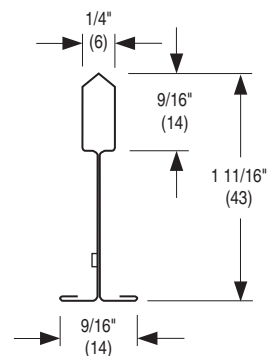
DATE
B SERIES
SUPERSEDES
DRAWING NO.

7 - 15 - 22

FLR

3 - 28 - 22

FLPR-SHP

Standard Mounting Style
Panel for 9/16" (14) Flat T-Bar Tegular Ceiling (Suprafine[®])

Suprafine[®]
T-Bar Detail

Description:

1. Material: Corrosion-resistant steel.
2. For use with ARMSTRONG[®] DESIGNFLEX™ SHAPES ceiling systems.
3. Standard finish is AW Appliance White.

Notes:

1. Armstrong[®], Designflex™ and Suprafine[®] are trademarks of AWI Licensing LLC.

Options:

- ☐ Aluminum construction (Model FLPR-SHPA).
- ☐ SS Sight shield.

Finish:

- ☐ BW British White.
- ☐ SP Special Finish _____.

SCHEDULE TYPE:
PROJECT:
ENGINEER:
CONTRACTOR:

Page 2 of 2
Dimensions are in inches (mm).

DATE
B SERIES
SUPERSEDES
DRAWING NO.

7 - 15 - 22

FLR

3 - 28 - 22

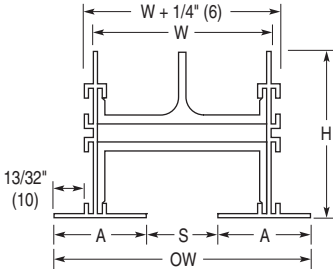
FLPR-SHP



FLOWLINE™ LINEAR SLOT DIFFUSERS
ARCHITECTURAL • ALUMINUM
RETURN (NO PATTERN CONTROLLERS)
MODEL SERIES: FLR TYPES AA & AAC

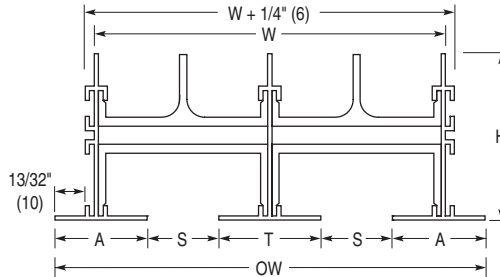
One Slot

- ☐ **Type AA Exposed Flange Frame**
 • Drywall (ceiling, wall), T-Bar



Two Slot

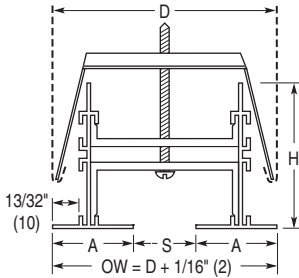
- ☐ **Type AA Exposed Flange Frame**
 • Drywall (ceiling, wall), T-Bar



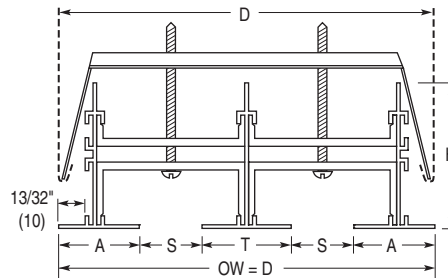
Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot		2 Slot		A Border Width	H Height	T 2 Slot
		W	OW	W	OW			
FLR10	1 (25)	2 1/2 (64)	3 9/16 (90)	4 15/16 (125)	6 (152)	1 9/32 (33)	2 3/8 (60)	1 7/16 (37)
FLR15	1 1/2 (38)	3 1/2 (89)	4 9/16 (116)	6 15/16 (176)	8 (203)	1 17/32 (39)	2 5/8 (67)	1 15/16 (49)
FLR20	2 (51)	4 1/2 (114)	5 9/16 (141)	8 15/16 (227)	10 (254)	1 25/32 (45)	2 7/8 (73)	2 7/16 (62)
FLR25	2 1/2 (64)	5 1/2 (140)	6 9/16 (167)	10 15/16 (278)	12 (305)	2 1/32 (52)	3 1/8 (79)	2 15/16 (75)
FLR30	3 (76)	6 1/2 (165)	7 9/16 (192)	12 15/16 (329)	14 (356)	2 9/32 (58)	3 3/8 (86)	3 7/16 (87)

- ☐ **Type AAC Exposed Flange Frame**
 • Drywall (ceiling)



- ☐ **Type AAC Exposed Flange Frame**
 • Drywall (ceiling)



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	D Duct Width		Ceiling Opening Width		A Border Width	H Height	T 2 Slot
		1 Slot	2 Slot	1 Slot	2 Slot			
FLR10	1 (25)	3 1/2 (89)	6 (152)	3 (76)	5 1/2 (140)	1 9/32 (33)	2 3/8 (60)	1 7/16 (37)
FLR15	1 1/2 (38)	4 1/2 (114)	8 (203)	4 (102)	7 1/2 (191)	1 17/32 (39)	2 5/8 (67)	1 15/16 (49)
FLR20	2 (51)	5 1/2 (140)	10 (254)	5 (127)	9 1/2 (241)	1 25/32 (45)	2 7/8 (73)	2 7/16 (62)
FLR25	2 1/2 (64)	6 1/2 (165)	12 (305)	6 (152)	11 1/2 (292)	2 1/32 (52)	3 1/8 (79)	2 15/16 (75)
FLR30	3 (76)	7 1/2 (191)	14 (356)	7 (178)	13 1/2 (343)	2 9/32 (58)	3 3/8 (86)	3 7/16 (87)

Notes:

- Material: Heavy duty extruded aluminum frame and spacers.
- Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
- AW Appliance White finish with black interior surfaces is standard on frame/borders AA and AAC. Optional finishes are available.
- Frame/Border Type AA is supplied w/integral hanger brackets on 24" (610) centers. Frame/Border Type AAC is supplied with concealed mounting brackets and levelling screws on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Option:

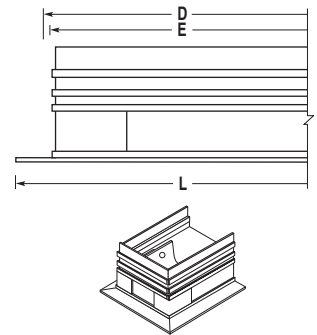
- ☐ SP Special Finish _____.

Overall Length & End Cap Position

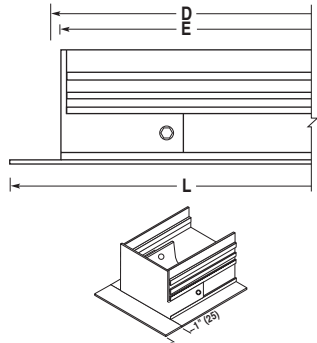
	E	L
☐ MM	D - 1/4 (6)	D + 9/16 (14)
☐ MO	D - 1/8 (3)	D + 9/32 (7)
☐ MC	D - 1/16 (2)	D + 11/32 (9)
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)
☐ FF	D - 1/4 (6)	D + 1 5/8 (41)
☐ FO	D - 1/8 (3)	D + 13/16 (21)
☐ FC	D - 1/16 (2)	D + 7/8 (22)

End Condition

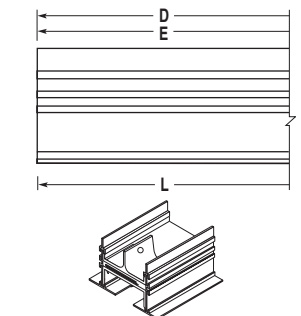
M Mitered End Border



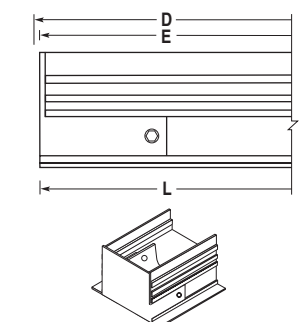
F Flanged End Cap
 Type AA Border Only



O Open End



C Flat End Cap



Dimensions are in inches (mm).

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

DATE

B SERIES

SUPERSEDES

DRAWING NO.

3 - 3 - 22

FL

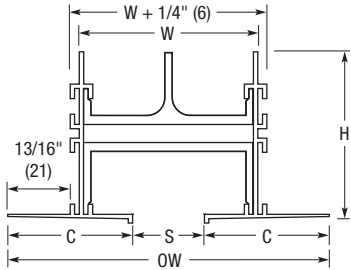
2 - 25 - 21

FLR-1

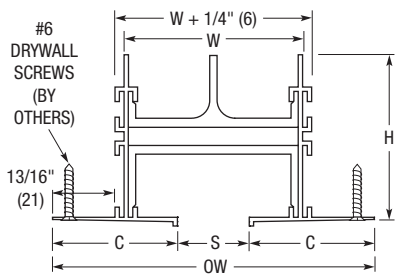
CONCEALED SURFACE MOUNT APPLICATION • DRYWALL (CEILING/WALL) TAPE & SPACKLE

One Slot

☐ **Type CC Concealed Tapered Frame**

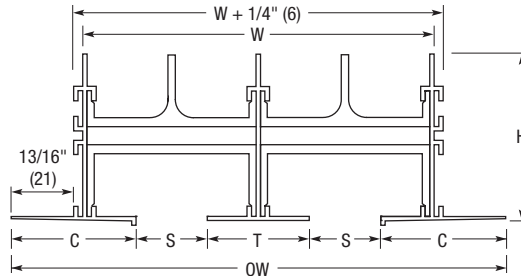


☐ **Type CCA Concealed Tapered Frame with Countersunk Screw Holes**

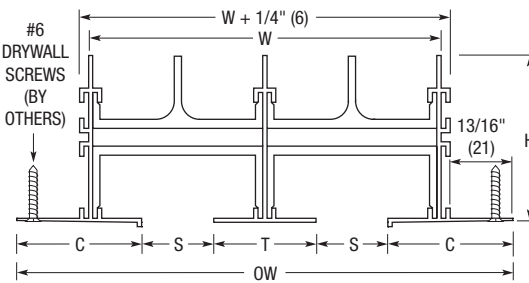


Two Slot

☐ **Type CC Concealed Tapered Frame**

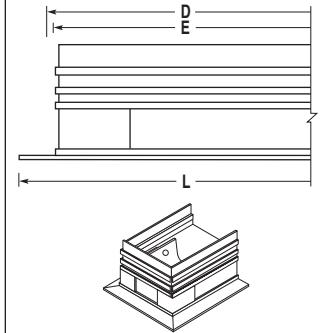


☐ **Type CCA Concealed Tapered Side Frame with Countersunk Screw Holes**

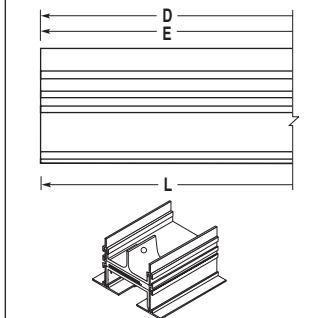


End Condition

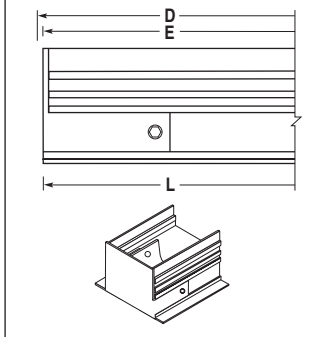
M Mitered End Border



O Open End



C Flat End Cap



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot		2 Slot		C Border Width	H Height	T 2 Slot
		W	OW	W	OW			
FLR10	1 (25)	2 1/2 (64)	4 3/8 (111)	4 15/16 (125)	6 13/16 (173)	1 11/16 (43)	2 3/8 (60)	1 7/16 (37)
FLR15	1 1/2 (38)	3 1/2 (89)	5 3/8 (137)	6 15/16 (176)	8 13/16 (224)	1 15/16 (49)	2 5/8 (67)	1 15/16 (49)
FLR20	2 (51)	4 1/2 (114)	6 3/8 (162)	8 15/16 (227)	10 13/16 (275)	2 3/16 (56)	2 7/8 (73)	2 7/16 (62)
FLR25	2 1/2 (64)	5 1/2 (140)	7 3/8 (187)	10 15/16 (278)	12 13/16 (325)	2 7/16 (62)	3 1/8 (79)	2 15/16 (75)
FLR30	3 (76)	6 1/2 (165)	8 3/8 (213)	12 15/16 (329)	14 13/16 (376)	2 11/16 (68)	3 3/8 (86)	3 7/16 (87)

Notes:

- Material: Heavy duty extruded aluminum frame and spacers.
- Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
- MI Mill finish is standard on frame/border CC with an AW Appliance White center tee on the 2 slot model. Interior surfaces are black.
- Type CC and CCA have integral hanger brackets on 24" (610) centers. See separate submittal for Type CC optional mounting hardware and accessories.

Options:

- ☐ SP Special Finish _____.

Overall Length and End Cap Position

	E	L
☐ MM	D - 1/4 (6)	D + 1 3/8 (35)
☐ MO	D - 1/8 (3)	D + 11/16 (17)
☐ MC	D - 1/16 (2)	D + 3/4 (19)
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Page 1 of 2
Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

12 - 19 - 22

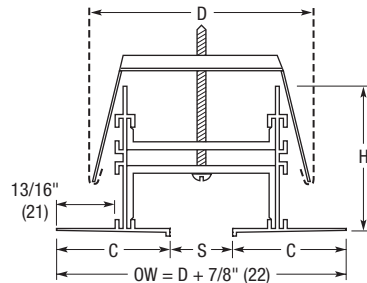
FL

3 - 3 - 22

FLR-2

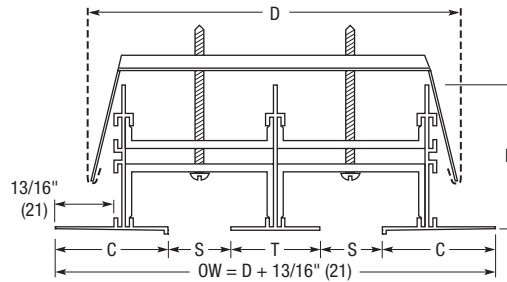
One Slot

- ☐ **Type CCC Concealed Tapered Frame with Concealed Mounting Brackets**



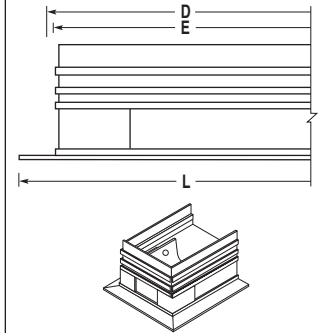
Two Slot

- ☐ **Type CCC Concealed Tapered Side Frame with Concealed Mounting Brackets**

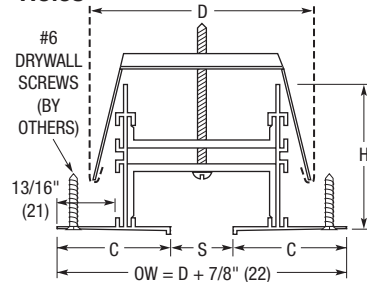


End Condition

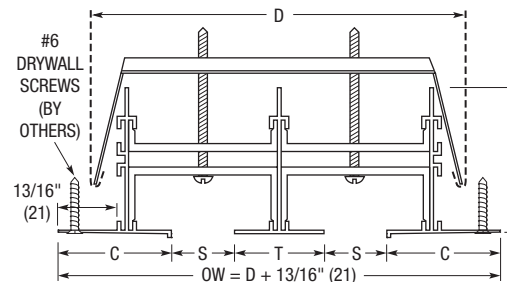
- M Mitered End Border**



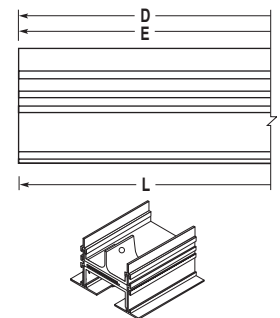
- ☐ **Type CCCA Concealed Tapered Frame with Concealed Mounting Brackets & Countersunk Screw Holes**



- ☐ **Type CCCA Concealed Tapered Side Frame with Concealed Mounting Brackets & Countersunk Screw Holes**



- O Open End**



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	D Duct Width		C Border Width	H Height	T 2 Slot	Ceiling Opening Width	
		1 Slot	2 Slot				1 Slot	2 Slot
FLR10	1 (25)	3 1/2 (89)	6 (152)	1 11/16 (43)	2 3/8 (60)	1 7/16 (37)	3 (76)	5 1/2 (140)
FLR15	1 1/2 (38)	4 1/2 (114)	8 (203)	1 15/16 (49)	2 5/8 (67)	1 15/16 (49)	4 (102)	7 1/2 (191)
FLR20	2 (51)	5 1/2 (140)	10 (254)	2 3/16 (56)	2 7/8 (73)	2 7/16 (62)	5 (127)	9 1/2 (241)
FLR25	2 1/2 (64)	6 1/2 (165)	12 (305)	2 7/16 (62)	3 1/8 (79)	2 15/16 (75)	6 (152)	11 1/2 (292)
FLR30	3 (76)	7 1/2 (191)	14 (356)	2 11/16 (68)	3 3/8 (86)	3 7/16 (87)	7 (178)	13 1/2 (343)

Notes:

- Material: Heavy duty extruded aluminum frame and spacers.
- Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
- MI Mill finish is standard on frame/borders CCC and CCCA with an AW Appliance White center tee on the 2 slot model. Interior surfaces are black.
- Types CCC and CCCA are supplied with concealed mounting brackets and leveling screws on 24" (610) centers. See separate submittal for accessories.

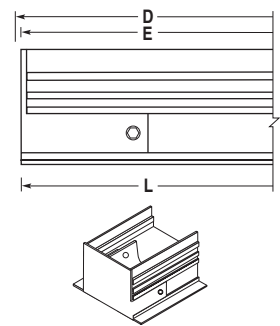
Options:

- ☐ SP Special Finish _____.

Overall Length and End Cap Position

	E	L
☐ MM	D - 1/4 (6)	D + 1 3/8 (35)
☐ MO	D - 1/8 (3)	D + 11/16 (17)
☐ MC	D - 1/16 (2)	D + 3/4 (19)
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)

- C Flat End Cap**



SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Page 2 of 2
Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

12 - 19 - 22

FL

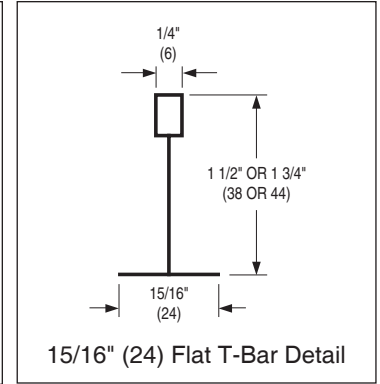
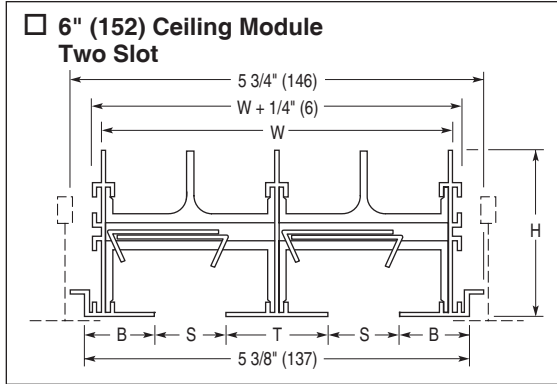
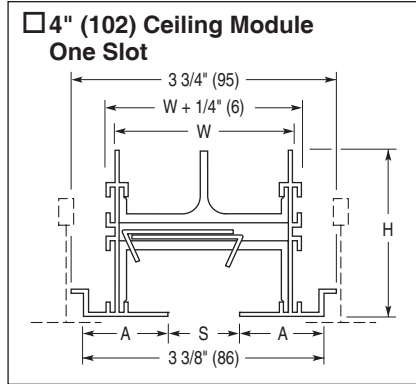
3 - 3 - 22

FLR-2

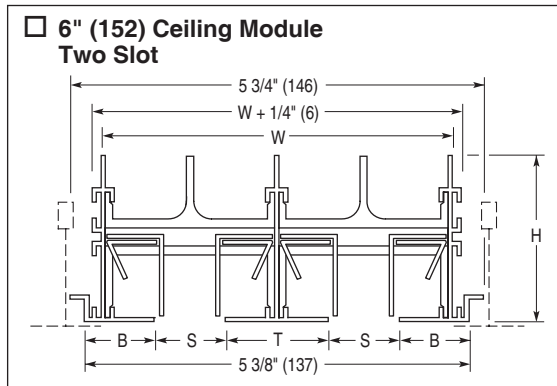
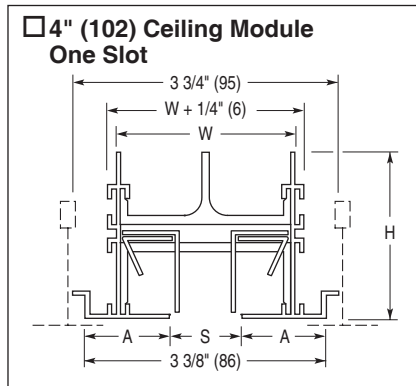


FLOWLINE™ LINEAR SLOT DIFFUSERS
ARCHITECTURAL • ALUMINUM
FOR TECHZONE™ TYPE CEILINGS 4" (102) & 6" (152) WIDE
MODEL SERIES FLH-TZ AND FLV-TZ
TYPE LT 15/16" (24) STANDARD T-BAR

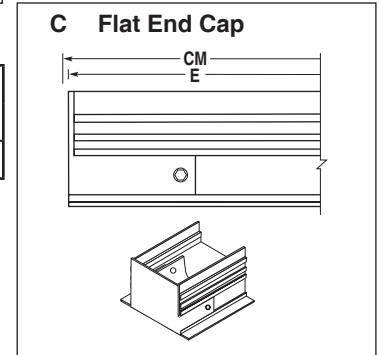
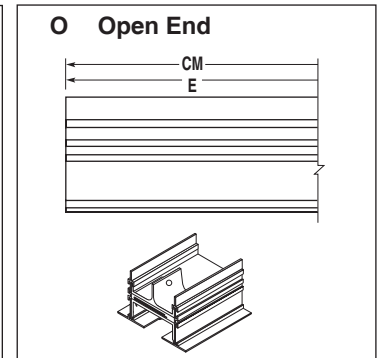
FLH-TZ Horizontal High Throw Pattern Controllers



FLV-TZ Vertical Jet Throw Pattern Controllers



End Condition



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot	2 Slot	Border Width		H Height	T 2 Slot
		W	W	A	B		
FL(H or V)10TZ	1 (25)	2 1/2 (64)	4 15/16 (125)	1 3/16 (30)	31/32 (25)	2 3/8 (60)	1 7/16 (37)

Notes:

- Compatible with Armstrong® Techzone™ and USG Logix™ ceiling systems.
- Material: Heavy duty extruded aluminum frame and spacers. Corrosion-resistant steel pattern controllers.
- 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 with alignment pins for continuous run applications. Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections.
- Adjustable pattern controllers are on max. 24" (610) centers.
- This model is compatible with standard 15/16" (24) flat T-Bar. The Flowline® diffuser lays flush on the T-Bars.
- Integral hanger brackets on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Options:

- ☐ FLP Factory Supplied Plenum (see separate submittal)
- ☐ SP Special Finish _____.

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

CM = Ceiling Module
E = Overall length

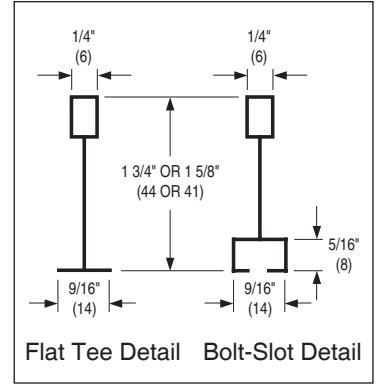
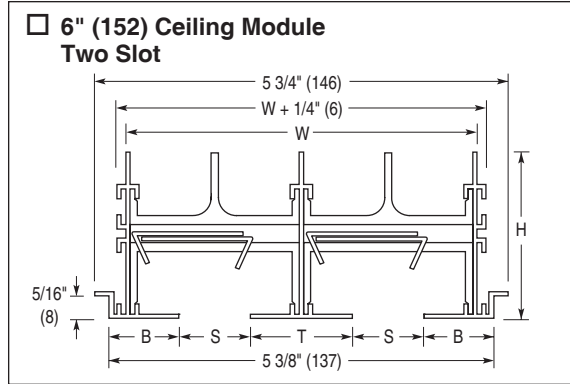
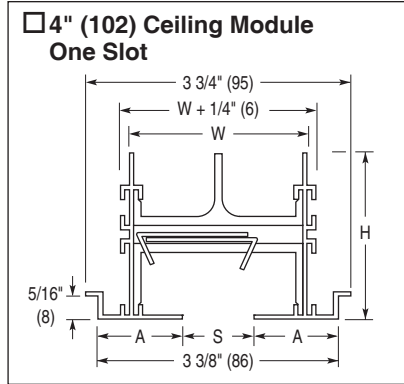
Dimensions are in inches (mm).

SCHEDULE TYPE:				
PROJECT:				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.
CONTRACTOR:	3 - 3 - 22	FL	10 - 9 - 14R	FL-TZ-1

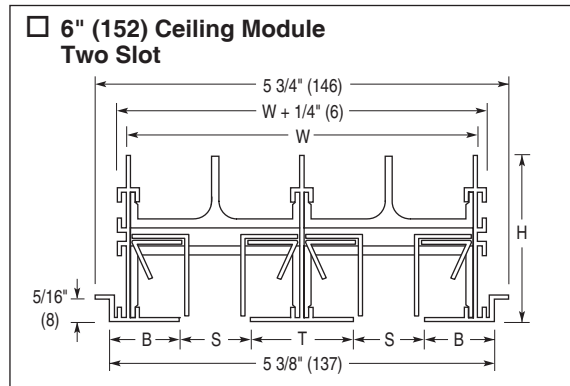
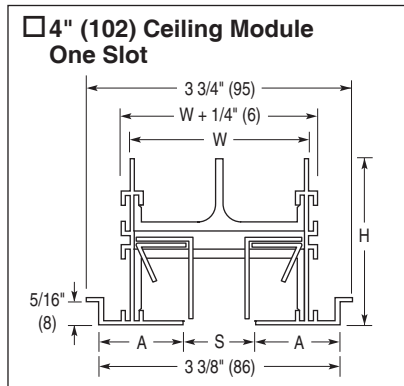


FLOWLINE™ LINEAR SLOT DIFFUSERS
ARCHITECTURAL • ALUMINUM
FOR TECHZONE™ TYPE CEILINGS 4" (102) & 6" (152) WIDE
MODEL SERIES FLH-TZ AND FLV-TZ
TYPE NT 9/16" (14) NARROW T-BAR

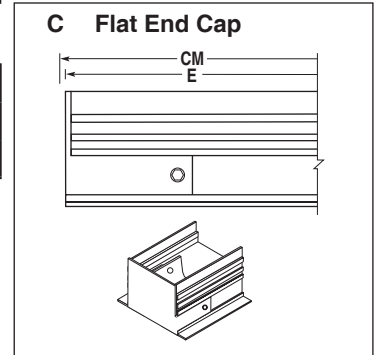
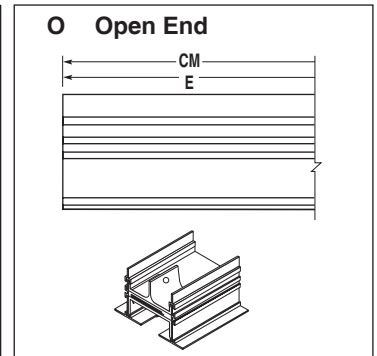
FLH-TZ Horizontal High Throw Pattern Controllers



FLV-TZ Vertical Jet Throw Pattern Controllers



End Condition



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot	2 Slot	Border Width		H Height	T 2 Slot
		W	W	A	B		
FL(H or V)10TZ	1 (25)	2 1/2 (64)	4 15/16 (125)	1 3/16 (30)	31/32 (25)	2 3/8 (60)	1 7/16 (37)

NOTES:

- Compatible with Armstrong® Techzone™ and USG Logix™ ceiling systems.
- Material: Heavy duty extruded aluminum frame and spacers. Corrosion-resistant steel pattern controllers.
- 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 with alignment pins for continuous run applications. Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections.
- Adjustable pattern controllers are on max. 24" (610) centers.
- This model accommodates both 9/16" (14) flat tees to provide a tegular appearance and 9/16" (14) Bolt-Slot (Fineline® Type) regressed tees for a flush appearance with a tegular ceiling tile.
- Integral hanger brackets on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Options:

- ☐ FLP Factory Supplied Plenum (see separate submittal)
☐ SP Special Finish _____.

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

CM = Ceiling Module
E = Overall length

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

3 - 3 - 22

FL

10 - 9 - 14R

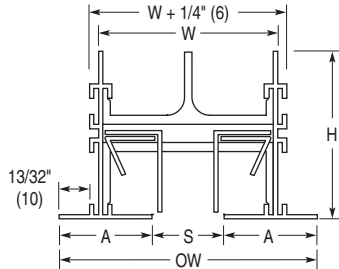
FL-TZ-2



FLOWLINE™ LINEAR SLOT DIFFUSERS **ARCHITECTURAL • ALUMINUM** **VERTICAL JET THROW PATTERN CONTROLLERS** **MODEL SERIES: FLV TYPES AA & AAC**

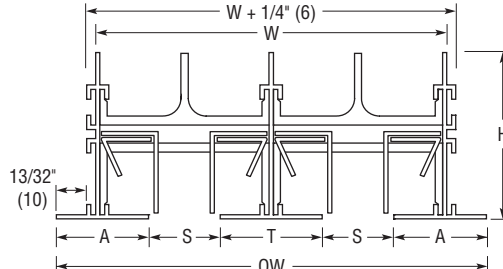
One Slot

- ☐ **Type AA Exposed Flange Frame**
• Drywall (ceiling, wall), T-bar



Two Slot

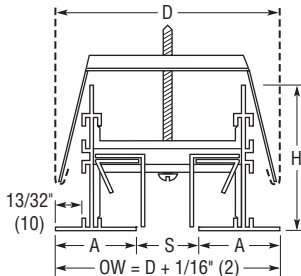
- ☐ **Type AA Exposed Flange Frame**
• Drywall (ceiling, wall), T-bar



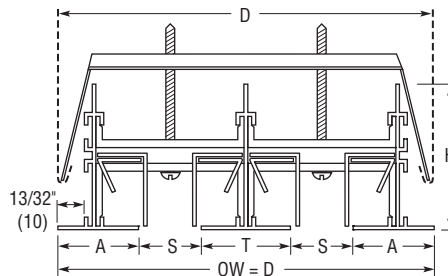
Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot		2 Slot		A Border Width	H Height	T 2 Slot
		W	OW	W	OW			
FLV10	1 (25)	2 1/2 (64)	3 9/16 (90)	4 15/16 (125)	6 (152)	1 9/32 (33)	2 3/8 (60)	1 7/16 (37)
FLV15	1 1/2 (38)	3 1/2 (89)	4 9/16 (116)	6 15/16 (176)	8 (203)	1 17/32 (39)	2 5/8 (67)	1 15/16 (49)
FLV20	2 (51)	4 1/2 (114)	5 9/16 (141)	8 15/16 (227)	10 (254)	1 25/32 (45)	2 7/8 (73)	2 7/16 (62)
FLV25	2 1/2 (64)	5 1/2 (140)	6 9/16 (167)	10 15/16 (278)	12 (305)	2 1/32 (52)	3 1/8 (79)	2 15/16 (75)
FLV30	3 (76)	6 1/2 (165)	7 9/16 (192)	12 15/16 (329)	14 (356)	2 9/32 (58)	3 3/8 (86)	3 7/16 (87)

- ☐ **Type AAC Exposed Flange Frame**
• Drywall (ceiling)



- ☐ **Type AAC Exposed Flange Frame**
• Drywall (ceiling)



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	D Duct Width		Ceiling Opening Width		A Border Width	H Height	T 2 Slot
		1 Slot	2 Slot	1 Slot	2 Slot			
FLV10	1 (25)	3 1/2 (89)	6 (152)	3 (76)	5 1/2 (140)	1 9/32 (33)	2 3/8 (60)	1 7/16 (37)
FLV15	1 1/2 (38)	4 1/2 (114)	8 (203)	4 (102)	7 1/2 (191)	1 17/32 (39)	2 5/8 (67)	1 15/16 (49)
FLV20	2 (51)	5 1/2 (140)	10 (254)	5 (127)	9 1/2 (241)	1 25/32 (45)	2 7/8 (73)	2 7/16 (62)
FLV25	2 1/2 (64)	6 1/2 (165)	12 (305)	6 (152)	11 1/2 (292)	2 1/32 (52)	3 1/8 (79)	2 15/16 (75)
FLV30	3 (76)	7 1/2 (191)	14 (356)	7 (178)	13 1/2 (343)	2 9/32 (58)	3 3/8 (86)	3 7/16 (87)

Notes:

1. Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
2. Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
3. Adjustable pattern controllers are on 24" (610) centers.
4. AW Appliance White finish with black pattern controllers and interior surfaces is standard on frame/borders AA and AAC. Optional finishes are available.
5. Frame/Border Type AA is supplied with integral hanger brackets on 24" (610) centers. Frame/Border Type AAC is supplied with concealed mounting brackets and levelling screws on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Option:

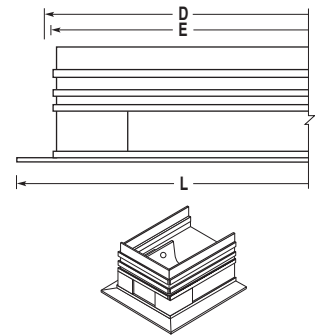
- ☐ SP Special Finish _____.

Overall Length & End Cap Position

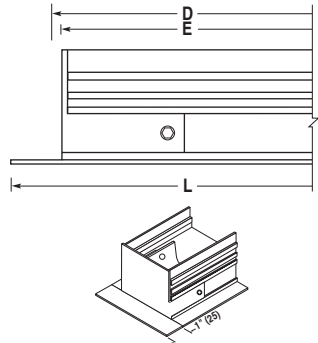
	E	L
☐ MM	D - 1/4 (6)	D + 9/16 (14)
☐ MO	D - 1/8 (3)	D + 9/32 (7)
☐ MC	D - 1/16 (2)	D + 11/32 (9)
☐ OO	D	
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)
☐ FF	D - 1/4 (6)	D + 1 5/8 (41)
☐ FO	D - 1/8 (3)	D + 13/16 (21)
☐ FC	D - 1/16 (2)	D + 7/8 (22)

End Condition

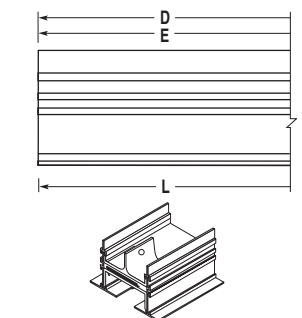
M Mitered End Border



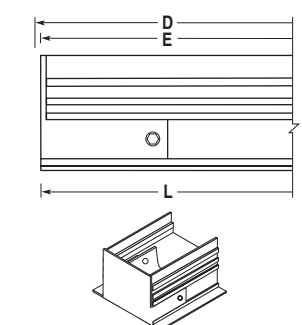
F Flanged End Cap Type AA Border Only



O Open End



C Flat End Cap



Dimensions are in inches (mm).

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

DATE

3 - 3 - 22

B SERIES

FL

SUPERSEDES

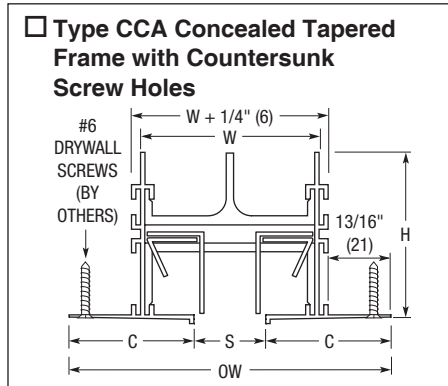
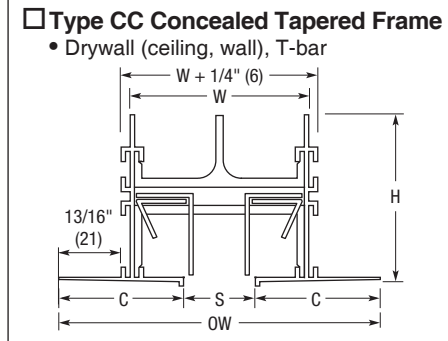
4 - 12 - 16R

DRAWING NO.

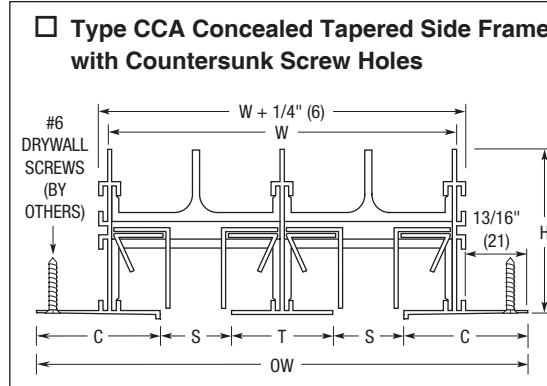
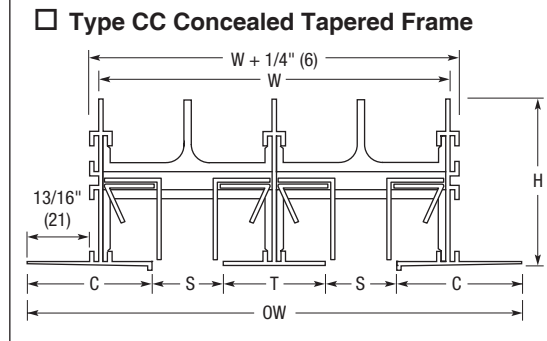
FLV-1

CONCEALED SURFACE MOUNT APPLICATION • DRYWALL (CEILING/WALL) TAPE & SPACKLE

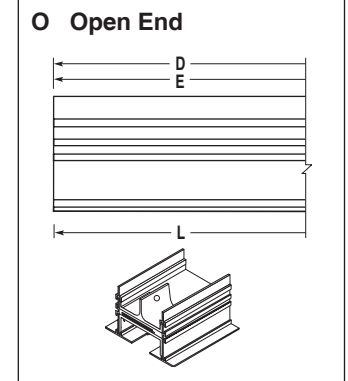
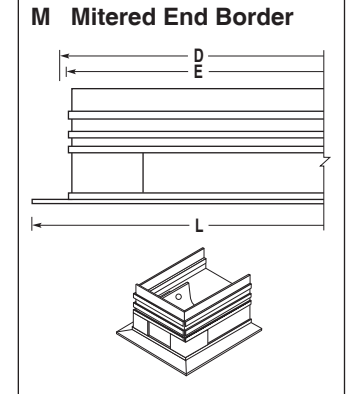
One Slot



Two Slot



End Condition



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot		2 Slot		C Border Width	H Height	T 2 Slot
		W	OW	W	OW			
FLV10	1 (25)	2 1/2 (64)	4 3/8 (111)	4 15/16 (125)	6 13/16 (173)	1 11/16 (43)	2 3/8 (60)	1 7/16 (37)
FLV15	1 1/2 (38)	3 1/2 (89)	5 3/8 (137)	6 15/16 (176)	8 13/16 (224)	1 15/16 (49)	2 5/8 (67)	1 15/16 (49)
FLV20	2 (51)	4 1/2 (114)	6 3/8 (162)	8 15/16 (227)	10 13/16 (275)	2 3/16 (56)	2 7/8 (73)	2 7/16 (62)
FLV25	2 1/2 (64)	5 1/2 (140)	7 3/8 (187)	10 15/16 (278)	12 13/16 (325)	2 7/16 (62)	3 1/8 (79)	2 15/16 (75)
FLV30	3 (76)	6 1/2 (165)	8 3/8 (213)	12 15/16 (329)	14 13/16 (376)	2 11/16 (68)	3 3/8 (86)	3 7/16 (87)

Notes:

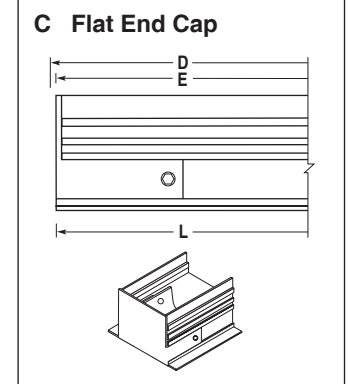
- Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
- Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
- Adjustable pattern controllers are on 24" (610) centers.
- MI Mill finish is standard on frame/border CC with an AW Appliance White center tee on the 2 slot model. Pattern controllers and interior surfaces are black.
- Type CC and CCA have integral hanger brackets on 24" (610) centers. See separate submittal for Type CC optional mounting hardware and accessories.

Options:

- ☐ SP Special Finish _____.

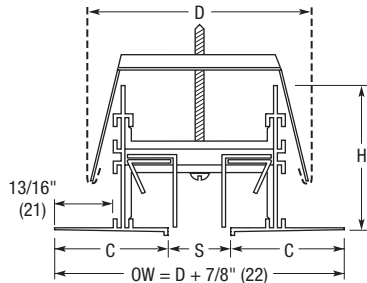
Overall Length and End Cap Position

	E	L
☐ MM	D - 1/4 (6)	D + 1 3/8 (35)
☐ MO	D - 1/8 (3)	D + 11/16 (17)
☐ MC	D - 1/16 (2)	D + 3/4 (19)
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)



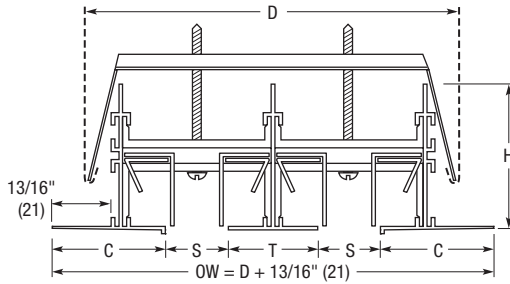
One Slot

- ☐ **Type CCC Concealed Tapered Frame with Concealed Mounting Brackets**



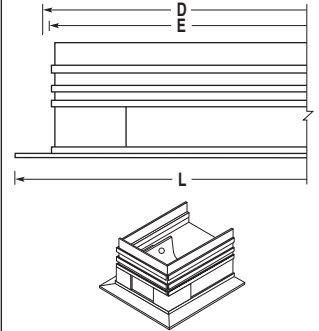
Two Slot

- ☐ **Type CCC Concealed Tapered Side Frame with Concealed Mounting Brackets**

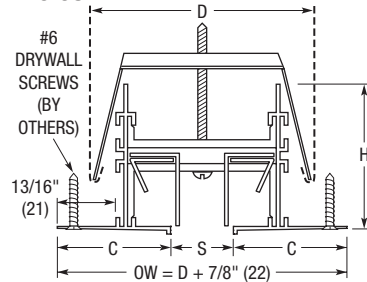


End Condition

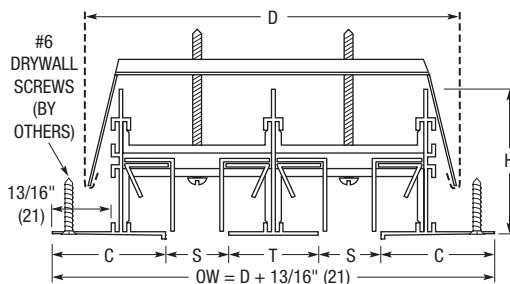
- M Mitered End Border**



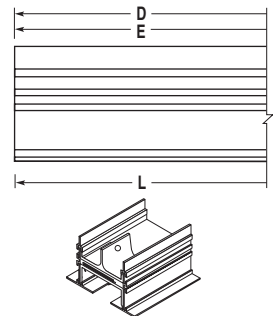
- ☐ **Type CCCA Concealed Tapered Frame with Concealed Mounting Brackets & Countersunk Screw Holes**



- ☐ **Type CCCA Concealed Tapered Side Frame with Concealed Mounting Brackets & Countersunk Screw Holes**



- O Open End**



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	D Duct Width		C Border Width	H Height	T 2 Slot	Ceiling Opening Width	
		1 Slot	2 Slot				1 Slot	2 Slot
FLV10	1 (25)	3 1/2 (89)	6 (152)	1 11/16 (43)	2 3/8 (60)	1 7/16 (37)	3 (76)	5 1/2 (140)
FLV15	1 1/2 (38)	4 1/2 (114)	8 (203)	1 15/16 (49)	2 5/8 (67)	1 15/16 (49)	4 (102)	7 1/2 (191)
FLV20	2 (51)	5 1/2 (140)	10 (254)	2 3/16 (56)	2 7/8 (73)	2 7/16 (62)	5 (127)	9 1/2 (241)
FLV25	2 1/2 (64)	6 1/2 (165)	12 (305)	2 7/16 (62)	3 1/8 (79)	2 15/16 (75)	6 (152)	11 1/2 (292)
FLV30	3 (76)	7 1/2 (191)	14 (356)	2 11/16 (68)	3 3/8 (86)	3 7/16 (87)	7 (178)	13 1/2 (343)

Notes:

- Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
- Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
- Adjustable pattern controllers are on 24" (610) centers.
- MI Mill finish is standard on frame/borders CCC and CCCA with an AW Appliance White center tee on the 2 slot model. Pattern controllers and interior surfaces are black.
- Types CCC and CCCA are supplied with concealed mounting brackets and leveling screws on 24" (610) centers. See separate submittal for accessories.

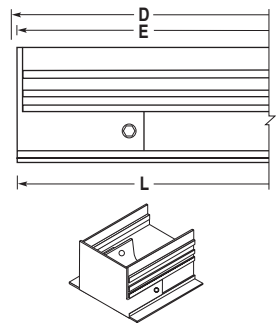
Options:

- ☐ SP Special Finish _____.

Overall Length and End Cap Position

	E	L
☐ MM	D - 1/4 (6)	D + 1 3/8 (35)
☐ MO	D - 1/8 (3)	D + 11/16 (17)
☐ MC	D - 1/16 (2)	D + 3/4 (19)
☐ OO	D	D
☐ OC	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)

- C Flat End Cap**



SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Page 2 of 2
Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

12 - 19 - 22

FL

3 - 3 - 2

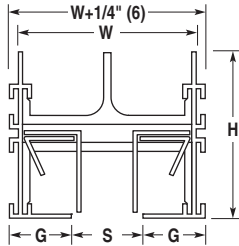
FLV-2A



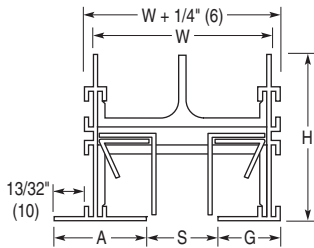
FLOWLINE™ LINEAR SLOT DIFFUSERS
ARCHITECTURAL • ALUMINUM
VERTICAL JET THROW PATTERN CONTROLLERS
MODEL SERIES: FLV TYPES GG & AG

One Slot

- ☐ **Type GG Flangeless Frame**
 • Drywall (ceiling, wall)

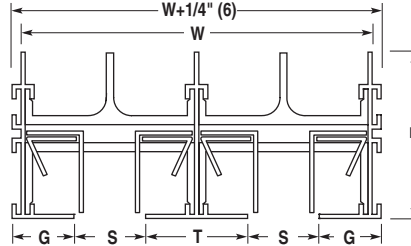


- ☐ **Type AG Flange / Flangeless Frame**
 • Drywall (ceiling, wall)

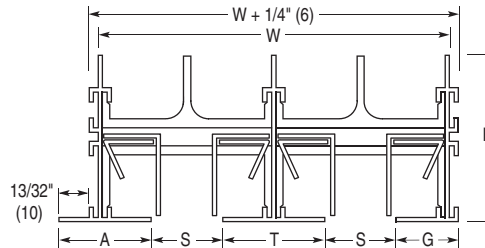


Two Slot

- ☐ **Type GG Flangeless Frame**
 • Drywall (ceiling, wall)

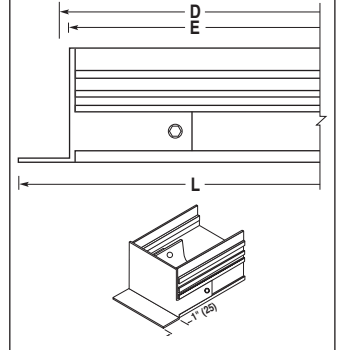


- ☐ **Type AG Flange / Flangeless Frame**
 • Drywall (ceiling, wall)

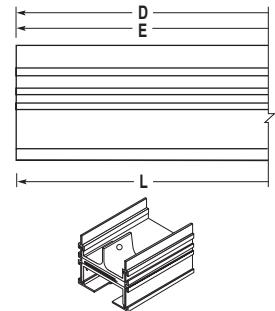


End Condition

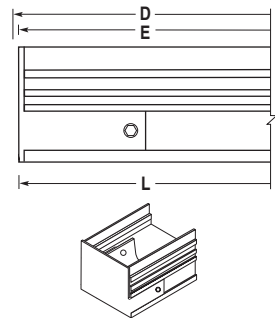
- F Flanged End Cap**



- O Open End**



- C Flat End Cap**



Dimensional Data - Imperial (Metric) Units

Model	S Slot Width	1 Slot W	2 Slot W	A Border Width	G Border Width	H Height	T 2 Slot
FLV10	1 (25)	2 1/2 (64)	4 15/16 (125)	1 9/32 (33)	7/8 (22)	2 3/8 (60)	1 7/16 (37)
FLV15	1 1/2 (38)	3 1/2 (89)	6 15/16 (176)	1 17/32 (39)	1 1/8 (29)	2 5/8 (67)	1 15/16 (49)
FLV20	2 (51)	4 1/2 (114)	8 15/16 (227)	1 25/32 (45)	1 3/8 (35)	2 7/8 (73)	2 7/16 (62)
FLV25	2 1/2 (64)	5 1/2 (140)	10 15/16 (278)	2 1/32 (52)	1 5/8 (41)	3 1/8 (79)	2 15/16 (75)
FLV30	3 (76)	6 1/2 (165)	12 15/16 (329)	2 9/32 (58)	1 7/8 (48)	3 3/8 (86)	3 7/16 (87)

Notes:

- Material: Heavy duty extruded aluminum frame and spacers. Corrosion resistant steel pattern controllers.
- Maximum section length is 72" (1823) by default. 96" (2438) and 120" (3048) are available as options. Lengths longer than the maximum section length are furnished in multiple sections with alignment strips, the number and size determined by the factory.
- Adjustable pattern controllers are on 24" (610) centers.
- Standard finish is AW Appliance White baked enamel on exposed frames with black pattern controllers and interior surfaces.
- Integral hanger brackets on 24" (610) centers. See separate submittal for optional mounting hardware and accessories.

Options:

- ☐ SP Special Finish _____.

Overall Length and End Cap Position

	E	L
☐ 00	D	D
☐ 0C	D - 1/16 (2)	D - 1/16 (2)
☐ CC	D - 1/8 (3)	D - 1/8 (3)
☐ FF	D - 1/4 (6)	D + 1 5/8 (41)
☐ FO	D - 1/8 (3)	D + 13/16 (21)
☐ FC	D - 1/16 (2)	D + 7/8 (22)

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

3 - 3 - 22

FL

2 - 16 - 10R

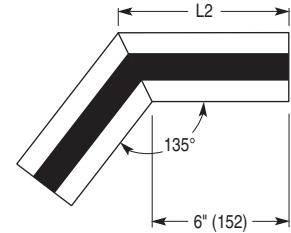
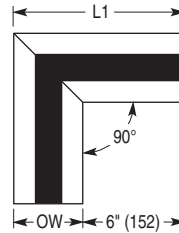
FLV-3

Mitered Corners

- ☐ FLMC10 • 1" (25) Slot
- ☐ FLMC15 • 1 1/2" (38) Slot
- ☐ FLMC20 • 2" (51) Slot
- ☐ FLMC25 • 2 1/2" (64) Slot
- ☐ FLMC30 • 3" (76) 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. Other angles are available.



Special Mitered Corners

- ☐ Other Angle _____.

*Available from 45 – 179° as SPL. (A detailed sketch is required for co-ordination with installing contractors).

No. of Slots	Slot Width	Border AA			Border CC			Border GG		
		OW	L1	L2	OW	L1	L2	OW	L1	L2
1	1 (25)	3 9/16 (90)	9 9/16 (243)	7 15/32 (190)	4 3/8 (111)	10 3/8 (264)	7 13/16 (198)	2 3/4 (70)	8 11/16 (221)	7 1/8 (181)
	1 1/2 (38)	4 9/16 (116)	10 9/16 (268)	7 7/8 (200)	5 3/8 (137)	11 3/8 (289)	8 1/4 (209)	3 3/4 (95)	9 11/16 (246)	7 17/32 (191)
	2 (51)	5 9/16 (141)	11 9/16 (294)	8 5/16 (211)	6 3/8 (162)	12 3/8 (315)	8 5/8 (219)	4 3/4 (121)	10 11/16 (271)	7 15/16 (202)
	2 1/2 (64)	6 9/16 (167)	12 9/16 (319)	8 23/32 (221)	7 3/8 (187)	13 3/8 (340)	9 1/16 (230)	5 3/4 (146)	11 11/16 (297)	8 11/32 (212)
2	3 (76)	7 9/16 (192)	13 9/16 (344)	9 1/8 (232)	8 3/8 (213)	14 3/8 (365)	9 1/2 (241)	6 3/4 (171)	12 11/16 (322)	8 3/4 (222)
	1 (25)	6 (152)	11 31/32 (304)	8 15/32 (215)	6 13/16 (173)	12 13/16 (325)	8 13/16 (224)	5 3/16 (132)	11 3/32 (282)	8 3/32 (206)
	1 1/2 (38)	8 (203)	13 31/32 (355)	9 5/16 (237)	8 13/16 (224)	14 13/16 (376)	9 5/8 (244)	7 3/16 (183)	13 3/32 (333)	8 29/32 (226)
	2 (51)	10 (254)	15 31/32 (406)	10 1/8 (257)	10 13/16 (275)	16 13/16 (427)	10 1/2 (267)	9 3/16 (233)	15 3/32 (383)	9 3/4 (248)
	2 1/2 (64)	12 (305)	17 31/32 (456)	10 31/32 (279)	12 13/16 (325)	18 13/16 (477)	11 5/16 (287)	11 3/16 (284)	17 3/32 (434)	10 9/16 (268)
	3 (76)	14 (354)	19 31/32 (507)	11 25/32 (299)	14 13/16 (376)	20 13/16 (529)	12 1/8 (308)	13 3/16 (335)	19 3/32 (485)	11 13/32 (290)

Transitions

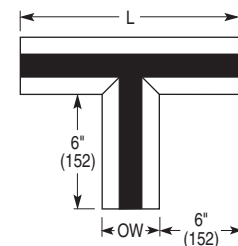
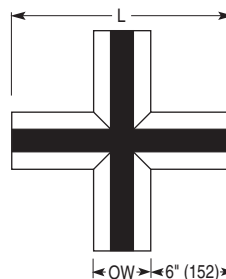
Type C Cross

- ☐ FLC10 • 1" (25) Slot
- ☐ FLC15 • 1 1/2" (38) Slot
- ☐ FLC20 • 2" (51) Slot
- ☐ FLC25 • 2 1/2" (64) Slot
- ☐ FLC30 • 3" (76) Slot

Type T Tee

- ☐ FLT10 • 1" (25) Slot
- ☐ FLT15 • 1 1/2" (38) Slot
- ☐ FLT20 • 2" (51) Slot
- ☐ FLT25 • 2 1/2" (64) Slot
- ☐ FLT30 • 3" (76) Slot

Transitions are inactive. Blank-offs installed at factory. Not available in 2 slot version.



No. of Slots	Slot Width	Border AA		Border CC		Border GG	
		OW	L	OW	L	OW	L
1	1 (25)	3 9/16 (90)	15 9/16 (395)	4 3/8 (111)	16 3/8 (416)	2 3/4 (70)	14 11/16 (373)
	1 1/2 (38)	4 9/16 (116)	16 9/16 (421)	5 3/8 (137)	17 3/8 (442)	3 3/4 (95)	15 11/16 (398)
	2 (51)	5 9/16 (141)	17 9/16 (446)	6 3/8 (162)	18 3/8 (467)	4 3/4 (121)	16 11/16 (424)
	2 1/2 (64)	6 9/16 (167)	18 9/16 (471)	7 3/8 (188)	19 3/8 (493)	5 3/4 (146)	17 11/16 (449)
	3 (76)	7 9/16 (192)	19 9/16 (497)	8 3/8 (213)	20 3/8 (518)	6 3/4 (171)	18 11/16 (475)

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Page 1 of 4
Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

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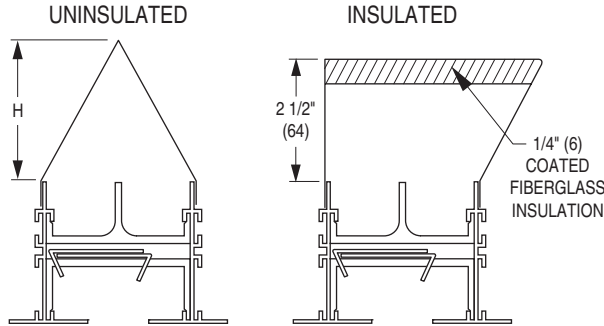
FLAC-1

Return Hood / Sight Shield
Uninsulated:

- ☐ FLRS10 • 1" (25) Slot
- ☐ FLRS15 • 1 1/2" (38) Slot
- ☐ FLRS20 • 2" (51) Slot
- ☐ FLRS25 • 2 1/2" (64) Slot
- ☐ FLRS30 • 3" (76) Slot

Insulated:

- ☐ FLRSI10 • 1" (25) Slot
- ☐ FLRSI15 • 1 1/2" (38) Slot
- ☐ FLRSI20 • 2" (51) Slot
- ☐ FLRSI25 • 2 1/2" (64) Slot
- ☐ FLRSI30 • 3" (76) Slot



No. of Slots	Slot Width	H Height
1	1 (25)	3 3/8 (86)
	1 1/2 (38)	3 3/8 (86)
	2 (51)	3 3/8 (86)
	2 1/2 (64)	3 3/8 (86)
	3 (76)	3 3/8 (86)
2	1 (25)	2 1/8 (54)
	1 1/2 (38)	3 1/8 (79)
	2 (51)	4 1/8 (105)
	2 1/2 (64)	5 1/8 (130)
	3 (76)	6 1/8 (156)

Notes:

1. Material: 51% free area perforated corrosion resistant steel.
2. Available from 12" to 96" (305 to 2438) in 1" (25) increments.
3. Field cut to length if necessary.
4. Finish: Flat Black

SCHEDULE TYPE
PROJECT
ENGINEER
CONTRACTOR

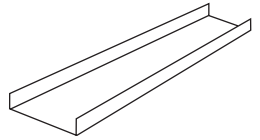
 Page 2 of 4
 Dimensions are in inches (mm).

DATE
B SERIES
SUPERSEDES
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FLAC-1

Blank-Offs

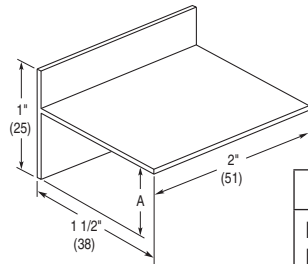
- ☐ FLBO10 • 1" (25) Slot
☐ FLBO15 • 1 1/2" (38) Slot
☐ FLBO20 • 2" (51) Slot
☐ FLBO25 • 2 1/2" (64) Slot
☐ FLBO30 • 3" (76) Slot

Corrosion resistant steel, painted flat black. Fits in neck of diffuser. Provided in 48" (1219) lengths. Field cut to length.



Mounting Clips

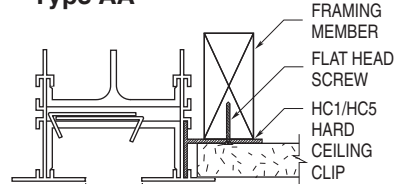
- ☐ HC1 Hard Ceiling Clip 5/8"
☐ HC5 Hard Ceiling Clip 1/2"



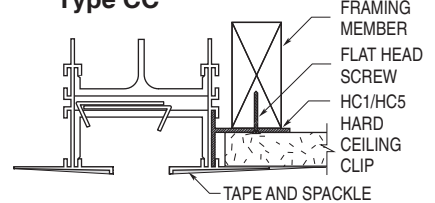
	A Dim.
HC1	5/8" (16)
HC5	1/2" (13)

The HC1 and HC5 Hard Ceiling Clip can be used to mount the FlowLine™ assembly with frame/border types **AA**, **CC** or **GG**, where 5/8" (16) or 1/2" (13) gypsum wallboard (drywall) is used.

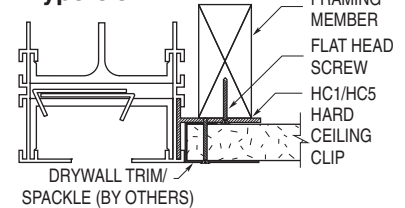
☐ Exposed Flange Frame Type AA



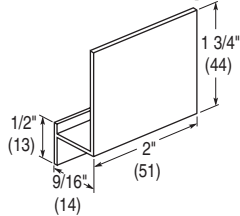
☐ Concealed Tapered Frame Type CC



☐ Flangeless Flush Frame Type GG

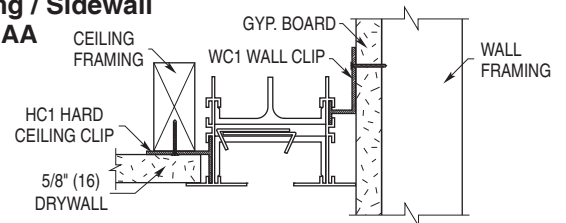


☐ WC1 Wall Clip

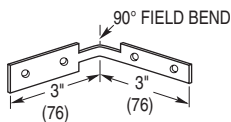


The WC1 WallClip is used to mount the FlowLine™ assembly with frame/border type **AA** flush to a wall.

☐ Ceiling / Sidewall Type AA

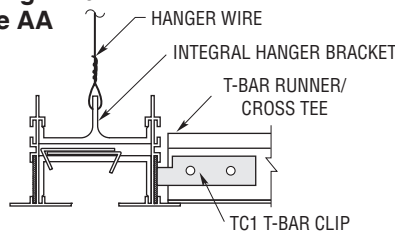


☐ TC1 T-Bar Clip (Field Formed)

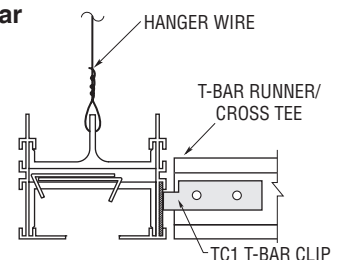


The TC1 T-Bar Clip is used to attach drop tees to the FlowLine™ assembly.

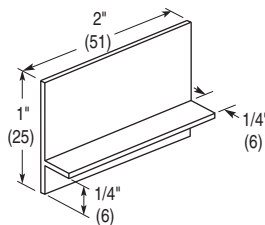
☐ Ceiling T-Bar Type AA



☐ Ceiling T-Bar (Bolt Slot) Type GG

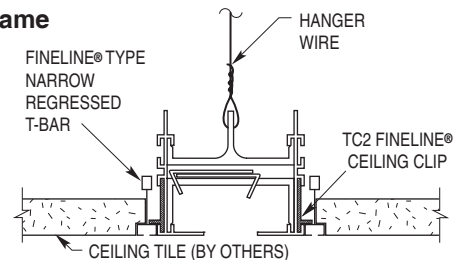


☐ TC2 Fineline T-Bar Clip



The TC2 Fineline T-Bar Clips are used to support and level the Flowline™ assembly in Bolt-Slot (Fineline type) suspension systems.

☐ Flangeless Frame Type GG



SCHEDULE TYPE

PROJECT

ENGINEER

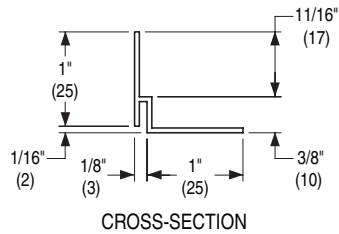
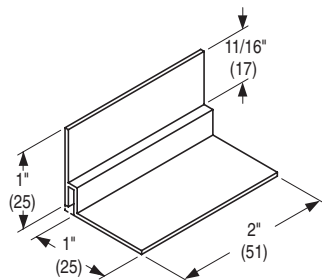
CONTRACTOR

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Dimensions are in inches (mm).

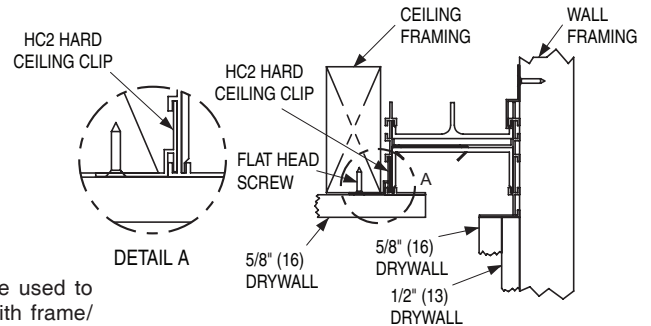
DATE	B SERIES	SUPERSEDES	DRAWING NO.
1 - 10 - 23	FL	4 - 23 - 21	FLAC-1

Mounting Clips

□ HC2 Hard Ceiling Clip

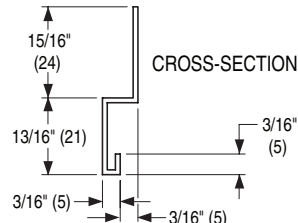
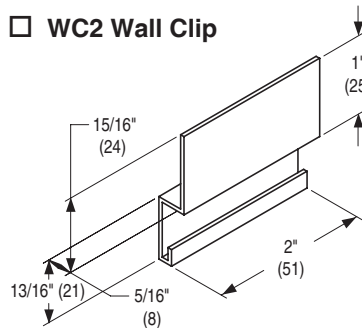


The HC2 Hard Ceiling Clip can be used to mount the FlowLine™ assembly with frame/border type **G**, where standard 5/8" (16) gypsum wallboard (drywall) is installed below the frame face.

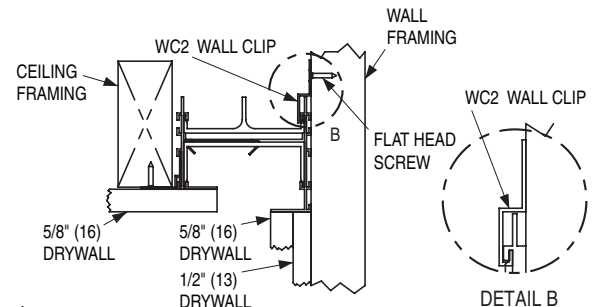


□ Flangeless Concealed Frame Type GJ

□ WC2 Wall Clip

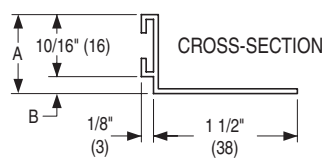
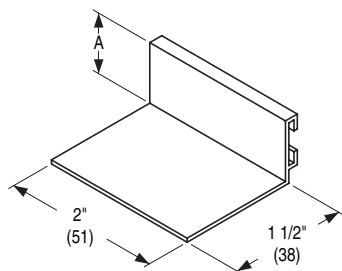


The WC2 Wall Clip can be used to mount the FlowLine™ assembly with frame/border types **G** or **J**, flush to a wall.

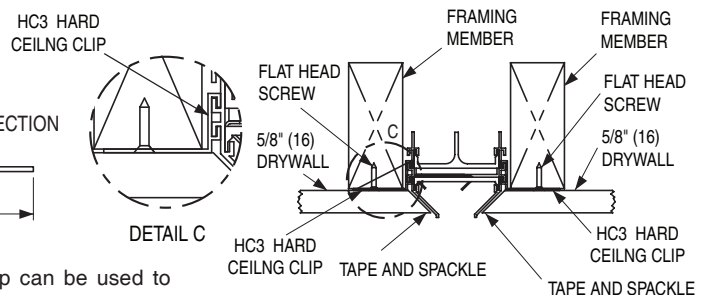


□ Flangeless Concealed Frame Type GJ

□ HC3 Hard Ceiling Clip for Type K Border



The HC3 Hard Ceiling Clip can be used to mount the FlowLine™ assembly with frame/border type **K**, where standard 5/8" (16) gypsum wallboard (drywall) is used.



□ Flangeless Concealed Frame Type KK

Flowline	Part No.	A Dim.	B Dim.
FLH10	HC3-10	13/16 (21)	3/16 (5)
FLH15	HC3-15	1 1/16 (27)	7/16 (11)
FLH20	HC3-20	1 5/16 (33)	11/16 (17)

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Page 4 of 4
 Dimensions are in inches (mm).

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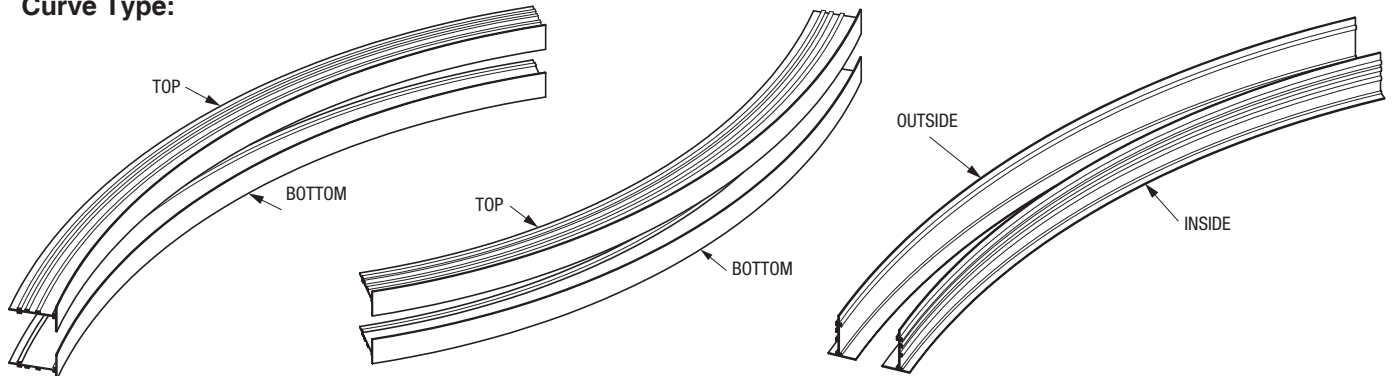
4 - 23 - 21

FLAC-1



CURVED FLOWLINE™ LINEAR SLOT DIFFUSERS ARCHITECTURAL • ALUMINUM CUSTOM LINEAR CURVING – BASIC FLOWLINE® DATA MODEL SERIES: FLH, FLV AND FLR

Curve Type:



☐ CAV Concave Face Curve

☐ VEX Convex Face Curve

☐ FLT Flat Face (Web) Curve

Flowline® Slot Width & Type:

- ☐ FL10, 1" (25) Slot Width ☐ 1 Slot
☐ FL15, 1 1/2" (38) Slot Width ☐ 2 Slot
☐ FL20, 2" (51) Slot Width
☐ FL25, 2 1/2" (64) Slot Width
☐ FL30, 3" (76) Slot Width

Flowline® Application:

- ☐ FLT Flat Curve, Ceiling
☐ CAV Concave Wall / Ceiling
☐ VEX Convex Wall / Ceiling

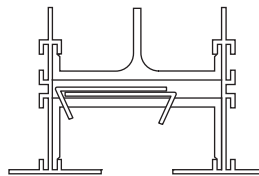
Pattern Controller Type:

- ☐ FLH Horizontal High Throw
☐ FLV Vertical Jet Throw

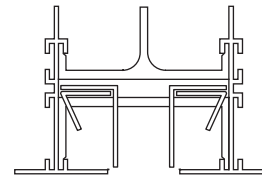
(May not be adjustable).

Please note that as radius decreases, pattern controllers are less adjustable.

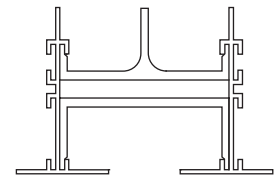
- ☐ FLR Return (No Pattern Controller)



FLH Horizontal High Throw



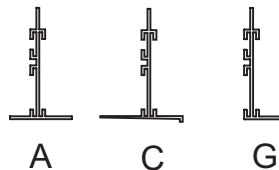
FLV Vertical Jet Throw



FLR Return

Frame / Border Type:

- ☐ AA Exposed Flange Frame
☐ AAC Exposed Flange Frame with concealed mounting brackets
☐ CC Concealed Tapered Frame
☐ CCA Concealed Tapered Frame with countersunk screw holes
☐ CCC Concealed Tapered Frame with concealed mounting brackets
☐ CCCA Concealed Tapered Frame with concealed mounting brackets and countersunk screw holes
☐ GG Flangeless Frame



End Cap Configuration:

Frame/Border Types AA, AAC & GG only:

- ☐ FF Flanged Flanged
☐ FO Flanged Open
☐ FC Flanged Flat Cap

All Frame/Border Types:

- ☐ OO Open Open
☐ OC Open Flat Cap
☐ CC Flat Cap Flat Cap

(Mitered end cap not available with curved product).

SCHEDULE TYPE

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Dimensions are in inches (mm).

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FLCC

CURVED FLOWLINE™ LINEAR SLOT DIFFUSERS ARCHITECTURAL • ALUMINUM CUSTOM LINEAR CURVING – CURVING DATA MODEL SERIES: FLH, FLV AND FLR

Location of Radius Measured Dimension:

FLT Flat Face Curve:

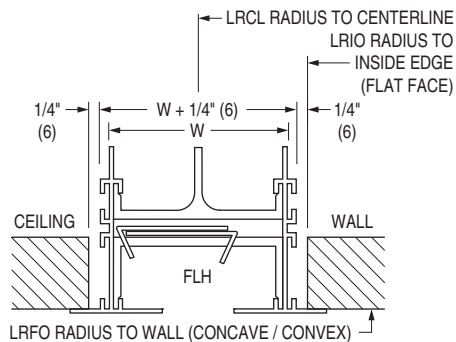
☐ LRIO Inside edge of opening

☐ LRCL Centerline of opening

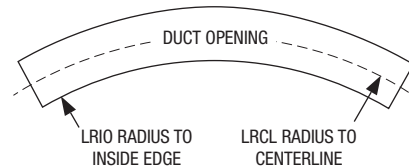
CAV / VEX Concave/Convex Curve:

☐ LRFO Face of opening

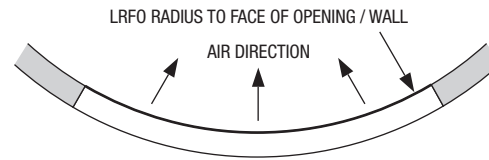
Radius: _____ inches



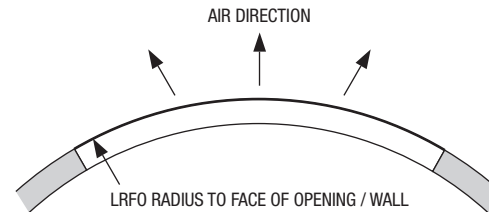
FLT Flat Face Curve, 1 or 2 Slot (1 Slot shown)



CAV Concave Face Curve



VEX Convex Face Curve



Length of the Arc, or the Angle:

☐ A. ARC Length: _____ inches

☐ B. ANG Angle: _____ degrees,

☐ C. CHRD Chord: _____ inches

Length or Angle refers to the slot length.

It doesn't include end caps or borders.

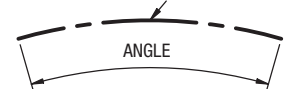
A. ARC Arc Length

LENGTH AS MEASURED
ALONG A GIVEN RADIUS



B. ANG Angle

LENGTH TO BE DETERMINED BY FACTORY



C. CHRD Chord Length

LENGTH TO BE DETERMINED
BY FACTORY



Minimum Radius:

Models	Slot Width	Flat Face				Concave & Convex	
		Frame Types AA & GG		Frame Type CC		Frame Types AA, CC & GG	
		1 Slot	2 Slot	1 Slot	2 Slot	1 Slot	2 Slot
FLH10, FLV10, FLR10	1" (25)	30" (762)	30" (762)	40" (1016)	40" (1016)	60" (1524)	60" (1524)
FLH15, FLV15, FLR15	1 1/2" (38)	30" (762)	30" (762)	40" (1016)	40" (1016)	60" (1524)	60" (1524)
FLH20, FLV20, FLR20	2" (51)	60" (1524)	60" (1524)	60" (1524)	60" (1524)	60" (1524)	60" (1524)
FLH25, FLV25, FLR25	2 1/2" (64)	60" (1524)	60" (1524)	60" (1524)	60" (1524)	60" (1524)	60" (1524)
FLH30, FLV30, FLR30	3" (76)	60" (1524)	60" (1524)	60" (1524)	60" (1524)	60" (1524)	60" (1524)

SCHEDULE TYPE

PROJECT

ENGINEER

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Dimensions are in inches (mm).

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DRAWING NO.

5 - 20 - 22

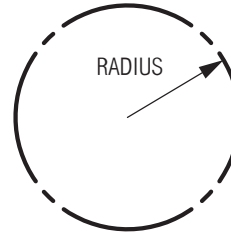
FL

11 - 19 - 18

FLCC

Full Circle:
☐ Perimeter Length ($2 \pi r$): _____ inches

Please specify the radius:

☐ Radius: _____ inches

Two-Radius Ellipse:

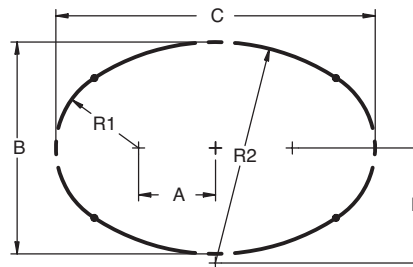
Please specify both radii:

R1: _____ inches, R2: _____ inches

Please specify the dimensions:

A: _____ inches, B: _____ inches

C: _____ inches, D: _____ inches


Serpentine:

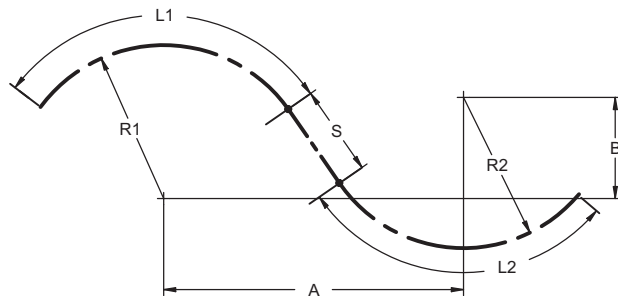
Please specify the following:

R1: _____ inches, R2: _____ inches

A: _____ inches, B: _____ inches

L1: _____ inches, L2: _____ inches

Optional Straight, S: _____ inches


SCHEDULE TYPE
PROJECT
ENGINEER
CONTRACTOR

 Page 3 of 3
 Dimensions are in inches (mm).

DATE
B SERIES
SUPERSEDES
DRAWING NO.

5 - 20 - 22

FL

11 - 19 - 18

FLCC



CURVED FLOWLINE™ LINEAR SLOT DIFFUSERS ARCHITECTURAL • ALUMINUM CUSTOM LINEAR CURVING – CURVED PLENUMS MODEL SERIES: FLP

Type of Plenum Required:

- ☐ A. VEX Convex Face Curve
☐ B. CAV Concave Face Curve
☐ C. FLT / IC Flat Face Curve, Inlet on Inside Curve
☐ D. FLT / OC Flat Face Curve, Inlet on Outside Curve
☐ E. No Plenum is required (or by others)

Plenum Attachment Method:

- ☐ A. Type C Hemmed Leg for Concealed Mounting Brackets.
For use with Frame / Border Types AAC, CCC and CCCA.
☐ B. Straight Leg for Direct Attachment to Curved Flowline®.
For use with Frame / Border Types AA, CC, CCA and GG.
See catalog page and submittal drawing FLP-1 for description.

Inlet Size:

- | | |
|--|------------------------------------|
| 1 Slot | 2 Slot |
| ☐ 6" Round | ☐ 6" Round |
| ☐ 8" Round | ☐ 8" Round |
| ☐ 10" Flat Oval | ☐ 10" Round |
| ☐ 12" Flat Oval | ☐ 12" Round |
| ☐ 14" Flat Oval | ☐ 14" Round |

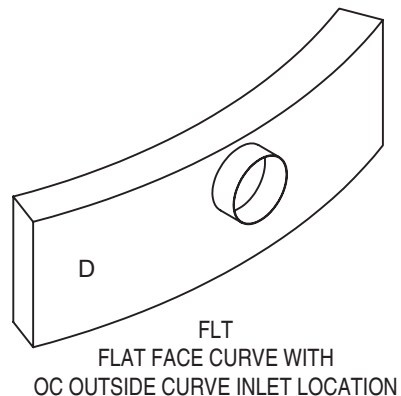
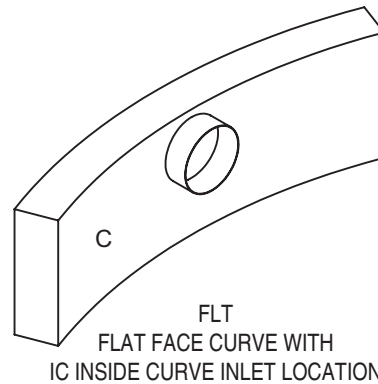
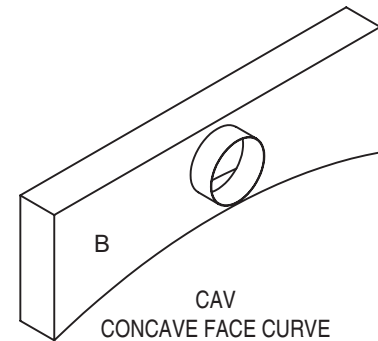
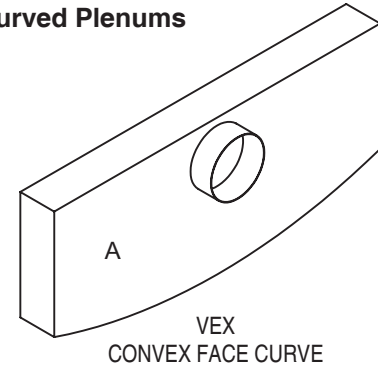
Notes:

1. All curved Flowline® and curved plenums are custom engineered products. Information supplied on this submittal form is used to prepare fabrication drawings. These drawings require written customer approval prior to their release for production.
2. Maximum single section curved length is 120" (3048). Longer lengths are furnished in multiple sections with alignment strips, the number and size determined by factory.
3. Adjustable pattern controllers may be on less than 24" (610) centers, as required by the radius, determined by factory.

Curved Plenum Minimum Radius:

Model	Flat Face		Concave & Convex	
	1 Slot	2 Slot	1 Slot	2 Slot
FLP (I) 10	30" (762)	30" (762)		
FLP (I) 15	30" (762)	30" (762)		
FLP (I) 20	60" (1524)	60" (1524)	60" (1524)	60" (1524)
FLP (I) 25	60" (1524)	60" (1524)	60" (1524)	60" (1524)
FLP (I) 30	60" (1524)	60" (1524)	60" (1524)	60" (1524)

Curved Plenums



SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

1 - 30 - 20

FL

11 - 12 - 18

FLPC



FLOWLINE™ LINEAR SLOT DIFFUSERS **ACCESSORIES** **SUPPLY AIR ENGINEERED PLENUMS** **MODEL SERIES: FLP LOW PROFILE OPTION**

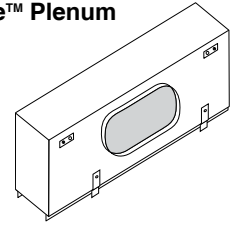
Uninsulated Models:

- ☐ FLP10 • 1" (25) Slot
- ☐ FLP15 • 1 1/2" (38) Slot
- ☐ FLP20 • 2" (51) Slot
- ☐ FLP25 • 2 1/2" (64) Slot
- ☐ FLP30 • 3" (76) Slot

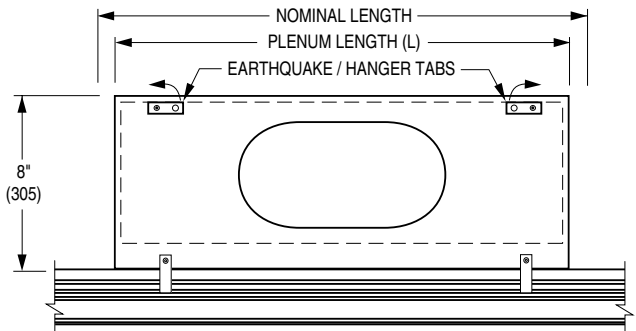
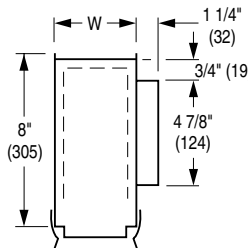
Internally Insulated Models:

- ☐ FLPI10 • 1" (25) Slot
- ☐ FLPI15 • 1 1/2" (38) Slot
- ☐ FLPI20 • 2" (51) Slot
- ☐ FLPI25 • 2 1/2" (64) Slot
- ☐ FLPI30 • 3" (76) Slot

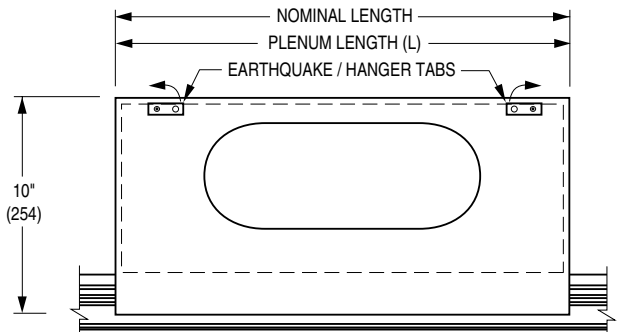
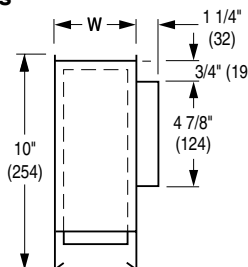
Flowline™ Plenum



- ☐ **Straight Leg (Direct Attachment)**
For use with Frame / Border Types
AA, CA, CC, CCA, CG, GG, GJ,
KK, LT, NT



- ☐ **Hemmed Leg (For concealed mounting bracket)**
For use with Frame / Border Types
AAC, CCC, CCCA



Dimensional Data

Nominal Length	Actual Plenum Length (L) for Frame/Border Type		Available Inlet Sizes & Flat Oval Dimension
	AA, CA, CC, CCA, CG, GG, GJ, KK, LT, NT	AAC, CCC, CCCA	
24 (610)	20 3/4 (527)	24 (610)	6 (152) = 6 7/16 x 4 7/8 (164 x 124) 8 (203) = 9 9/16 x 4 7/8 (243 x 124) 10 (254) = 12 3/4 x 4 7/8 (324 x 124) 12 (305) = 15 7/8 x 4 7/8 (403 x 124) 14 (356) = 19 x 4 7/8 (483 x 124)
30 (762)	26 3/4 (679)	30 (762)	
36 (914)	32 3/4 (832)	36 (914)	
48 (1219)	44 3/4 (1137)	48 (1219)	
60 (1524)	56 3/4 (1441)	60 (1524)	
72 (1829)	68 3/4 (1746)	72 (1829)	

Plenum Model	Width (W) for Frame/Border Type Noted			
	AA, CA, CC, CCA, CG, GG, GJ, KK, LT, NT		AAC, CCC, CCCA	
	1 Slot	2 Slot	1 Slot	2 Slot
FLP(I)10	2 3/4 (70)	5 3/16 (132)	3 1/2 (89)	5 15/16 (151)
FLP(I)15	3 3/4 (95)	7 3/16 (183)	4 1/2 (114)	7 15/16 (202)
FLP(I)20	4 3/4 (121)	9 3/16 (233)	5 1/2 (140)	9 15/16 (252)
FLP(I)25	5 3/4 (146)	11 3/16 (284)	6 1/2 (165)	11 15/16 (303)
FLP(I)30	6 3/4 (171)	13 3/16 (335)	7 1/2 (191)	13 15/16 (354)

Notes:

- Heavy gauge corrosion resistant steel construction.
- Earthquake tabs are standard.
- Straight leg plenums are supplied with spring clips.

Options:

- ☐ EX External Foil Back Insulation.
- ☐ ID ID Inlet damper.
- ☐ NI No Inlet.

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

3 - 26 - 25

FL

3 - 10 - 23

FLP-LPP



Nailor[®]
Industries Inc.

STANDARD AND OPTIONAL FINISHES FOR GRILLES AND DIFFUSERS

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

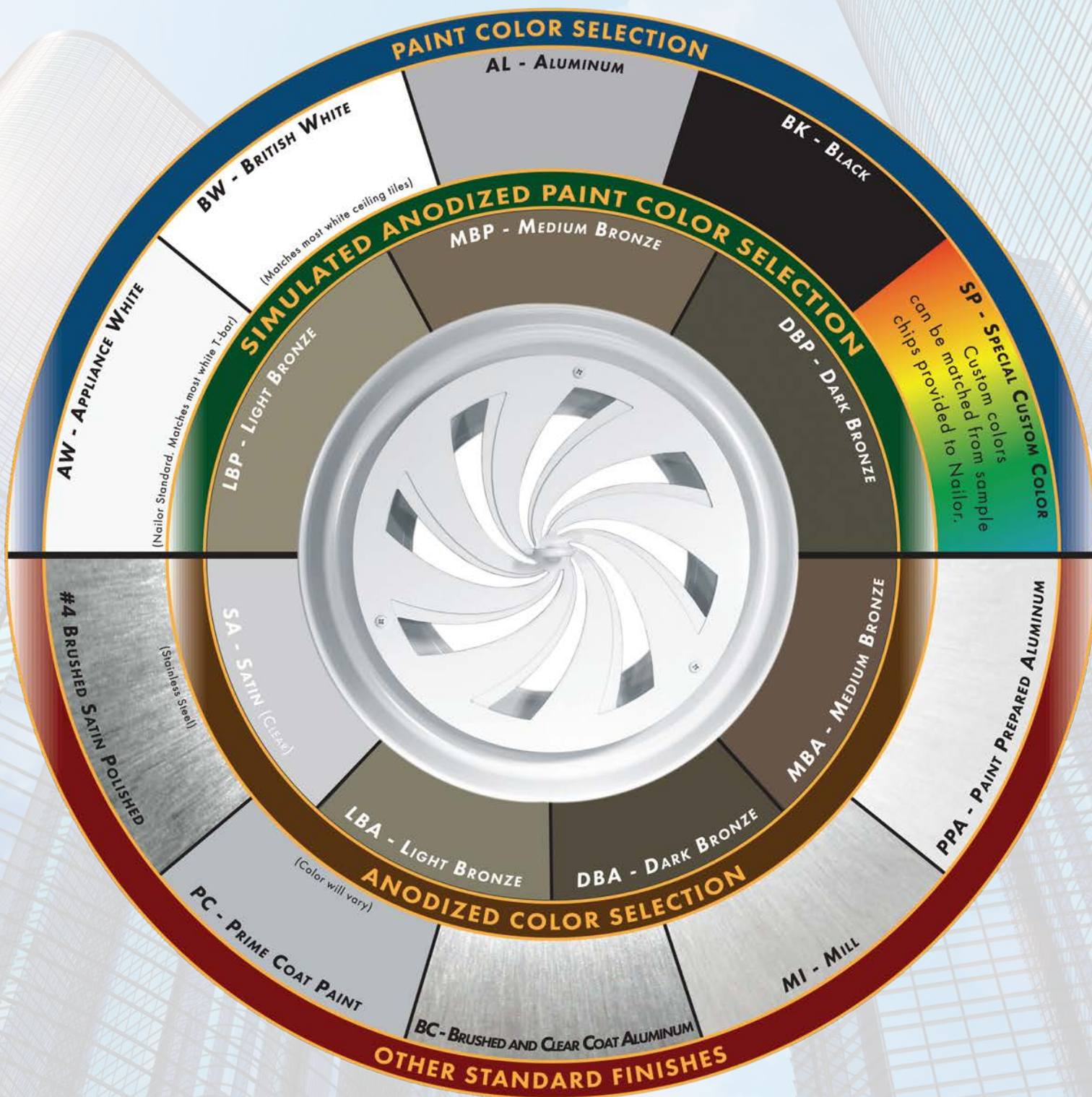
Surface is left untreated and requires cleaning, degreasing, etc. in the field before final finish can be applied if required.



Nailor[®]
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.

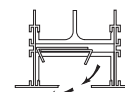
"Complete Air Control and Distribution Solutions."

WGDSOF2015

www.nailor.com

PERFORMANCE DATA • HORIZONTAL HIGH THROW SERIES

MODELS: FLH / FTH (10 & 15) • 1 SLOT WITH NAILOR PLENUM



A

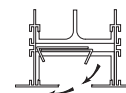
FLOWLINE™ LINEAR DIFFUSERS

1" Slot Width	1 Slot 6" Dia. Inlet	2 Ft.	Airflow, CFM	25	50	75	100	125	150	175
			Total Pressure	.008	.034	.075	.132	.206	.297	.040
			Static Pressure	.007	.030	.065	.115	.180	.260	.350
			Noise Criteria	<15	<15	<15	20	29	36	40
			Throw	1-2-5	3-6-9	5-9-12	7-10-13	8-10-14	9-11-16	10-12-18
		4 Ft.	Airflow, CFM	40	80	120	160	200	240	280
			Total Pressure	.009	.031	.066	.117	.180	.264	.352
			Static Pressure	.006	.020	.042	.075	.115	.170	.225
			Noise Criteria	<15	<15	<15	17	25	32	38
			Throw	1-2-5	3-6-12	5-9-15	8-12-17	10-12-18	12-15-20	13-16-22
		5 Ft.	Airflow, CFM	50	100	150	200	250	300	350
			Total Pressure	.009	.036	.079	.140	.217	.316	.424
			Static Pressure	.005	.020	.042	.075	.115	.170	.225
			Noise Criteria	<15	<15	<15	18	26	33	38
			Throw	1-2-7	3-7-13	8-10-17	10-13-19	12-15-20	14-16-22	15-17-24
1" Slot Width	1 Slot 8" Dia. Inlet	2 Ft.	Airflow, CFM	50	75	100	125	150	175	200
			Total Pressure	.029	.068	.119	.188	.272	.358	.471
			Static Pressure	.028	.065	.114	.180	.260	.342	.450
			Noise Criteria	<15	<15	20	28	35	41	44
			Throw	2-5-9	5-9-11	7-10-14	8-11-15	9-12-18	10-12-19	11-13-20
		4 Ft.	Airflow, CFM	70	110	150	190	230	270	310
			Total Pressure	.016	.040	.075	.120	.176	.242	.319
			Static Pressure	.014	.034	.063	.101	.149	.205	.270
			Noise Criteria	<15	<15	<15	23	30	36	41
			Throw	2-4-10	6-8-14	7-11-17	9-13-19	10-15-22	13-16-24	15-18-26
		5 Ft.	Airflow, CFM	80	130	180	230	280	330	380
			Total Pressure	.007	.025	.056	.093	.142	.206	.283
			Static Pressure	.006	.020	.044	.072	.110	.160	.220
			Noise Criteria	<15	<15	<15	23	29	35	40
			Throw	2-5-11	6-9-15	8-12-18	9-14-20	11-15-22	13-17-24	14-18-26
1.5" Slot Width	1 Slot 6" Dia. Inlet	2 Ft.	Airflow, CFM	30	60	90	120	150	180	210
			Total Pressure	.002	.038	.088	.148	.246	.367	.471
			Static Pressure	.001	.032	.075	.125	.210	.315	.400
			Noise Criteria	<15	<15	<15	22	31	39	44
			Throw	1-4-7	4-7-11	6-9-13	8-10-15	10-13-17	11-14-19	12-15-20
		4 Ft.	Airflow, CFM	70	110	150	190	230	270	310
			Total Pressure	.021	.045	.089	.148	.206	.288	.376
			Static Pressure	.013	.025	.052	.089	.120	.170	.220
			Noise Criteria	<15	<15	<15	20	24	30	36
			Throw	2-5-11	5-8-15	8-12-17	10-13-19	12-15-20	13-16-21	14-17-23
		5 Ft.	Airflow, CFM	85	135	185	235	285	335	385
			Total Pressure	.013	.055	.101	.165	.247	.342	.440
			Static Pressure	.001	.025	.045	.075	.115	.160	.200
			Noise Criteria	<15	<15	<15	20	26	31	37
			Throw	2-5-11	5-19-15	8-13-18	11-15-21	12-17-23	14-18-25	15-20-27
1.5" Slot Width	1 Slot 8" Dia. Inlet	2 Ft.	Airflow, CFM	30	60	90	120	150	180	210
			Total Pressure	.002	.032	.076	.128	.222	.317	.428
			Static Pressure	.001	.030	.072	.120	.210	.300	.405
			Noise Criteria	<15	<15	<15	23	31	40	44
			Throw	1-4-7	4-7-11	7-9-13	8-12-15	10-13-17	11-14-18	12-15-19
		4 Ft.	Airflow, CFM	70	120	170	220	270	320	370
			Total Pressure	.015	.035	.075	.125	.207	.272	.380
			Static Pressure	.012	.027	.060	.100	.170	.220	.310
			Noise Criteria	<15	<15	<15	22	30	36	44
			Throw	2-5-11	6-9-15	9-13-18	12-15-21	14-17-23	15-19-25	16-20-26
		5 Ft.	Airflow, CFM	85	145	205	265	325	385	445
			Total Pressure	.016	.041	.084	.131	.204	.276	.401
			Static Pressure	.012	.03	.062	.095	.150	.200	.300
			Noise Criteria	<15	<15	<15	23	30	36	43
			Throw	2-5-11	6-10-16	9-13-20	12-17-23	15-19-25	16-20-27	17-21-29
1.5" Slot Width	1 Slot 10" Dia. Inlet	2 Ft.	Airflow, CFM	30	60	90	120	150	180	210
			Total Pressure	.002	.027	.065	.109	.189	.269	.364
			Static Pressure	.002	.026	.063	.106	.184	.263	.355
			Noise Criteria	<15	<15	<15	20	28	37	41
			Throw	1-4-7	4-7-11	7-9-13	8-12-15	10-13-17	11-14-18	12-15-19
		4 Ft.	Airflow, CFM	70	120	170	220	270	320	370
			Total Pressure	.013	.030	.064	.106	.176	.231	.323
			Static Pressure	.012	.027	.058	.096	.161	.210	.294
			Noise Criteria	<15	<15	<15	19	27	33	41
			Throw	2-5-11	6-9-15	9-13-18	12-15-21	14-17-23	15-19-25	16-20-26
		5 Ft.	Airflow, CFM	85	145	205	265	325	385	445
			Total Pressure	.014	.035	.071	.111	.173	.235	.341
			Static Pressure	.012	.030	.063	.097	.151	.204	.299
			Noise Criteria	<15	<15	<15	20	27	33	40
			Throw	2-5-11	6-10-16	9-13-20	12-17-23	15-19-25	16-20-27	17-21-29

For performance table notes, see page A37.

PERFORMANCE DATA • HORIZONTAL HIGH THROW SERIES

MODELS: FLH / FTH (20 & 25) • 1 SLOT WITH NAILOR PLENUM



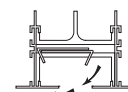
FLOWLINE™ LINEAR DIFFUSERS

2" Slot Width	1 Slot 8" Dia. Inlet	2 Ft.	Airflow, CFM	40	80	120	160	200	240	280
			Total Pressure	.007	.028	.065	.115	.180	.259	.352
			Static Pressure	.006	.025	.057	.102	.159	.229	.312
			Noise Criteria	<15	<15	<15	17	26	31	38
			Throw	1-3-8	5-8-13	7-10-15	10-13-17	11-14-19	12-15-22	13-16-23
		4 Ft.	Airflow, CFM	100	150	200	250	300	350	400
			Total Pressure	.015	.034	.040	.094	.136	.185	.241
			Static Pressure	.010	.022	.040	.062	.089	.122	.159
			Noise Criteria	<15	<15	<15	15	22	30	37
			Throw	3-4-11	6-9-14	8-12-17	9-13-19	12-14-23	14-25-27	15-17-28
		5 Ft.	Airflow, CFM	125	180	235	290	345	400	455
			Total Pressure	.180	.037	.064	.097	.137	.184	.238
			Static Pressure	.010	.021	.035	.535	.076	.102	.132
			Noise Criteria	<15	<15	<15	22	29	34	39
			Throw	3-6-12	8-12-17	9-13-19	12-14-23	14-13-26	16-18-28	17-21-30
2" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Airflow, CFM	50	100	150	200	250	300	350
			Total Pressure	.007	.028	.064	.113	.177	.254	.346
			Static Pressure	.007	.027	.060	.108	.168	.242	.329
			Noise Criteria	<15	<15	<15	17	24	29	37
			Throw	2-5-10	5-8-12	6-10-14	8-12-17	9-13-19	10-14-22	13-16-25
		4 Ft.	Airflow, CFM	100	170	240	310	380	450	520
			Total Pressure	.008	.023	.045	.076	.114	.169	.213
			Static Pressure	.065	.019	.038	.063	.094	.132	.176
			Noise Criteria	<15	<15	<15	20	27	33	39
			Throw	3-6-12	7-11-15	9-13-19	11-15-23	14-17-27	15-19-30	16-21-34
		5 Ft.	Airflow, CFM	125	205	285	365	445	525	605
			Total Pressure	.009	.023	.045	.074	.109	.152	.202
			Static Pressure	.007	.018	.034	.056	.083	.115	.153
			Noise Criteria	<15	<15	<15	23	31	36	41
			Throw	3-7-15	7-11-19	10-14-24	13-16-25	15-19-30	16-21-32	21-25-34
2.5" Slot Width	1 Slot 10" Oval Inlet	2 Ft.	Airflow, CFM	100	145	190	235	280	325	370
			Total Pressure	.024	.05	.085	.131	.186	.25	.324
			Static Pressure	.045	.045	.077	.117	.167	.224	.291
			Noise Criteria	<15	<15	<15	22	29	35	40
			Throw	4-9-11	6-19-13	8-12-17	10-14-18	12-16-22	13-17-24	14-18-26
		4 Ft.	Airflow, CFM	140	220	300	380	460	540	620
			Total Pressure	.015	.037	.069	.111	.163	.225	.296
			Static Pressure	.010	.026	.048	.077	.112	.155	.204
			Noise Criteria	<15	<15	<15	25	33	40	45
			Throw	5-8-17	10-14-22	12-16-25	14-17-28	16-19-31	19-22-33	21-24-35
		5 Ft.	Airflow, CFM	150	240	330	420	510	600	690
			Total Pressure	.013	.034	.063	.103	.151	.209	.277
			Static Pressure	.002	.020	.037	.060	.088	.122	.162
			Noise Criteria	<15	<15	<15	23	31	38	43
			Throw	3-8-16	8-12-21	12-15-25	15-18-29	17-21-32	19-23-35	21-27-38
2.5" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Airflow, CFM	100	145	190	235	280	325	370
			Total Pressure	.021	.043	.074	.114	.161	.217	.282
			Static Pressure	.019	.041	.070	.106	.151	.204	.264
			Noise Criteria	<15	<15	<15	20	27	33	38
			Throw	4-9-11	6-19-13	8-12-17	10-14-18	12-16-22	13-17-24	14-18-26
		4 Ft.	Airflow, CFM	140	225	310	395	480	565	650
			Total Pressure	.012	.031	.059	.096	.142	.197	.261
			Static Pressure	.009	.024	.046	.075	.111	.154	.204
			Noise Criteria	<15	<15	15	23	31	38	43
			Throw	5-8-17	10-14-22	12-16-25	14-17-29	17-20-32	20-23-34	22-26-37
		5 Ft.	Airflow, CFM	150	250	350	450	550	650	750
			Total Pressure	.010	.028	.054	.090	.134	.188	.250
			Static Pressure	.007	.019	.038	.063	.094	.131	.174
			Noise Criteria	<15	<15	16	26	34	40	46
			Throw	3-8-16	8-12-21	13-16-26	16-19-31	18-22-33	20-25-37	22-28-39

For performance table notes, see page A37.

PERFORMANCE DATA • HORIZONTAL HIGH THROW SERIES

MODELS: FLH30 AND FTH30 • 1 SLOT WITH NAILOR PLENUM



A

FLOWLINE™ LINEAR DIFFUSERS

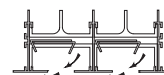
3" Slot Width	1 Slot 10" Oval Inlet	2 Ft.	Airflow, CFM	125	170	215	260	305	350	395
			Total Pressure	.030	.056	.084	.131	.180	.237	.302
			Static Pressure	.027	.049	.078	.115	.158	.208	.265
			Noise Criteria	<15	<15	<15	24	29	35	40
			Throw	7-11-16	9-13-19	11-15-21	13-17-23	15-18-25	16-19-28	17-20-31
		4 Ft.	Airflow, CFM	200	275	350	425	500	575	650
			Total Pressure	.027	.050	.081	.120	.166	.220	.281
			Static Pressure	.017	.032	.052	.076	.106	.140	.179
			Noise Criteria	<15	<15	18	22	28	34	40
			Throw	8-13-20	10-15-24	15-19-27	17-21-30	18-23-32	20-24-35	21-26-37
		5 Ft.	Airflow, CFM	220	310	400	490	580	670	760
			Total Pressure	.025	.040	.082	.123	.172	.230	.296
			Static Pressure	.013	.026	.043	.065	.091	.122	.157
			Noise Criteria	<15	<15	16	24	32	39	45
			Throw	8-12-21	12-17-25	15-20-29	18-23-32	20-24-35	21-26-37	23-28-40
3" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Airflow, CFM	125	170	215	260	305	350	395
			Total Pressure	.029	.053	.085	.124	.170	.224	.286
			Static Pressure	.026	.049	.078	.115	.158	.208	.265
			Noise Criteria	<15	<15	<15	18	25	31	36
			Throw	7-11-16	9-13-19	11-15-21	13-17-23	15-18-25	16-19-28	17-20-31
		4 Ft.	Airflow, CFM	200	290	380	470	560	650	740
			Total Pressure	.022	.047	.081	.123	.175	.236	.306
			Static Pressure	.017	.036	.061	.094	.133	.179	.232
			Noise Criteria	<15	<15	<15	22	29	36	41
			Throw	8-13-20	11-16-24	15-20-28	17-22-31	20-24-34	21-26-37	23-28-40
		5 Ft.	Airflow, CFM	220	330	440	550	660	770	880
			Total Pressure	.020	.044	.079	.123	.177	.241	.315
			Static Pressure	.013	.030	.053	.082	.118	.161	.210
			Noise Criteria	<15	<15	19	26	32	39	43
			Throw	8-12-21	11-14-26	14-16-30	17-20-34	20-25-37	22-27-39	24-29-42

Performance Notes:

1. Data is based upon FlowLine™ with Nailor engineered plenum (uninsulated) as a complete assembly.
2. All pressures are in inches w.g..
3. Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
4. Noise criteria values are based on 10 dB room absorption, re 10⁻¹² watts.
5. Throw values are based on a 1-way air pattern. For 2-way pattern, throw is determined from the 1 slot data at half the specified air volume.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

PERFORMANCE DATA • HORIZONTAL HIGH THROW SERIES

MODELS: FLH / FTH (10 & 15) • 2 SLOT WITH NAILOR PLENUM

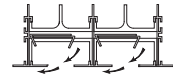


FLOWLINE™ LINEAR DIFFUSERS	A	1" Slot Width	2 Slot 8" Dia. Inlet	2 Ft.	Airflow, CFM	80	120	160	200	240	280	320
					Total Pressure	.016	.036	.064	.101	.145	.198	.258
					Static Pressure	.018	.041	.072	.080	.115	.157	.205
					Noise Criteria	<15	<15	<15	23	29	35	40
					Throw	3-6-12	6-10-16	9-13-18	11-14-20	13-16-22	14-17-23	15-18-25
				4 Ft.	Airflow, CFM	160	230	300	370	440	510	580
					Total Pressure	.025	.053	.091	.138	.196	.263	.340
					Static Pressure	.013	.026	.045	.068	.097	.130	.168
					Noise Criteria	<15	<15	17	24	31	36	41
					Throw	5-8-17	8-12-21	10-16-24	13-18-26	16-20-30	17-22-32	18-24-34
				5 Ft.	Airflow, CFM	200	280	360	440	520	600	680
					Total Pressure	.033	.065	.108	.161	.225	.300	.385
					Static Pressure	.013	.025	.041	.062	.087	.115	.148
					Noise Criteria	<15	<15	19	26	32	37	42
					Throw	5-10-20	9-14-24	12-17-26	15-20-30	17-22-33	19-24-35	22-26-38
		1" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Airflow, CFM	80	130	180	230	280	330	380
					Total Pressure	.014	.038	.073	.119	.176	.244	.324
					Static Pressure	.013	.034	.065	.106	.157	.218	.289
					Noise Criteria	<15	<15	19	28	35	41	47
					Throw	3-6-13	7-11-16	10-14-19	12-15-22	13-17-24	14-18-26	15-19-28
				4 Ft.	Airflow, CFM	160	240	320	400	480	560	640
					Total Pressure	.019	.043	.076	.118	.170	.232	.303
					Static Pressure	.013	.029	.051	.080	.115	.157	.205
					Noise Criteria	<15	<15	18	26	33	39	44
					Throw	4-9-18	9-14-22	12-28-26	15-20-29	17-22-32	20-24-34	19-25-35
				5 Ft.	Airflow, CFM	200	295	390	485	580	675	770
					Total Pressure	.022	.048	.085	.132	.189	.256	.333
					Static Pressure	.013	.028	.049	.075	.108	.146	.190
					Noise Criteria	<15	<15	20	28	34	40	45
					Throw	5-19-19	10-14-24	13-19-27	17-22-32	20-24-35	21-25-38	22-27-39
		1.5" Slot Width	2 Slot 8" Dia. Inlet	2 Ft.	Airflow, CFM	120	160	200	240	280	320	360
					Total Pressure	.036	.064	.101	.145	.198	.258	.327
					Static Pressure	.029	.051	.080	.115	.157	.205	.259
					Noise Criteria	<15	<15	19	26	32	37	41
					Throw	5-19-16	8-12-18	11-12-18	13-16-21	14-17-24	15-18-26	15-19-27
				4 Ft.	Airflow, CFM	240	310	380	450	520	590	660
					Total Pressure	.058	.097	.146	.205	.274	.352	.441
					Static Pressure	.029	.048	.072	.101	.135	.174	.218
					Noise Criteria	<15	<15	21	27	33	37	42
					Throw	9-14-22	12-17-25	14-20-28	16-22-31	17-23-33	19-25-35	21-26-37
				5 Ft.	Airflow, CFM	300	370	440	510	580	650	720
					Total Pressure	.075	.114	.161	.217	.281	.352	.432
					Static Pressure	.029	.044	.062	.083	.108	.135	.166
					Noise Criteria	<15	<15	22	27	32	36	40
					Throw	10-15-25	13-19-28	15-21-30	16-22-32	18-23-33	19-24-34	21-27-38
		1.5" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, CFM	120	170	220	270	320	370	420
					Total Pressure	.031	.062	.103	.156	.219	.293	.377
					Static Pressure	.029	.058	.097	.146	.205	.274	.353
					Noise Criteria	<15	<15	21	29	35	40	45
					Throw	5-9-16	9-13-19	12-14-21	14-16-24	15-18-26	15-19-28	17-21-29
				4 Ft.	Airflow, CFM	240	320	400	480	560	640	720
					Total Pressure	.037	.065	.102	.146	.199	.260	.329
					Static Pressure	.029	.051	.080	.115	.157	.205	.259
					Noise Criteria	<15	<15	22	26	32	37	41
					Throw	9-14-22	12-18-26	15-20-29	17-22-32	18-24-33	20-26-36	22-27-39
				5 Ft.	Airflow, CFM	300	400	500	600	700	800	900
					Total Pressure	.041	.073	.114	.163	.222	.291	.368
					Static Pressure	.029	.051	.080	.115	.157	.205	.259
					Noise Criteria	<15	<15	23	30	35	40	45
					Throw	10-15-25	14-20-29	16-22-32	19-24-35	22-27-38	23-28-41	24-30-43

For performance table notes, see page A40.

PERFORMANCE DATA • HORIZONTAL HIGH THROW SERIES

MODELS: FLH / FTH (20 & 25) • 2 SLOT WITH NAILOR PLENUM



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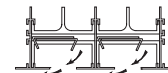
FLOWLINE™ LINEAR DIFFUSERS

2" Slot Width	2 Slot 8" Dia. Inlet	2 Ft.	Airflow, CFM	120	165	210	255	300	345	390
			Total Pressure	.023	.043	.069	.101	.141	.186	.238
			Static Pressure	.015	.029	.047	.068	.095	.125	.160
			Noise Criteria	<15	<15	16	24	29	34	38
			Throw	5-8-14	7-11-16	9-14-19	11-14-21	13-16-23	14-17-24	14-18-25
		4 Ft.	Airflow, CFM	240	300	360	420	480	540	600
			Total Pressure	.051	.079	.114	.156	.204	.258	.318
			Static Pressure	.021	.034	.048	.066	.086	.108	.134
			Noise Criteria	<15	17	23	29	34	39	43
			Throw	6-11-20	9-14-23	11-16-24	13-19-26	14-20-29	16-22-30	18-23-32
		5 Ft.	Airflow, CFM	260	325	390	455	520	585	650
			Total Pressure	.053	.082	.118	.161	.211	.267	.329
			Static Pressure	.018	.028	.040	.055	.072	.092	.113
			Noise Criteria	<15	16	22	29	34	38	42
			Throw	5-11-21	8-14-23	11-16-25	13-18-28	14-21-30	16-23-32	17-23-33
2" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, CFM	120	195	270	345	420	495	570
			Total Pressure	.009	.024	.046	.075	.111	.155	.205
			Static Pressure	.007	.020	.039	.063	.094	.130	.172
			Noise Criteria	<15	<15	<15	22	28	35	41
			Throw	5-8-14	8-13-18	12-15-22	14-17-24	15-19-26	16-21-29	18-20-31
		4 Ft.	Airflow, CFM	240	330	420	510	600	690	780
			Total Pressure	.019	.037	.060	.088	.122	.161	.206
			Static Pressure	.013	.026	.042	.062	.086	.113	.145
			Noise Criteria	<15	<15	17	24	30	35	41
			Throw	6-11-20	10-15-23	13-19-26	15-21-29	18-23-32	20-24-34	21-25-36
		5 Ft.	Airflow, CFM	280	380	480	580	680	780	880
			Total Pressure	.022	.040	.065	.094	.130	.172	.218
			Static Pressure	.014	.026	.041	.060	.083	.110	.140
			Noise Criteria	<15	<15	18	25	31	36	41
			Throw	5-12-22	10-15-25	13-20-29	15-22-32	18-24-34	21-25-36	23-27-39
2.5" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Airflow, CFM	80	160	240	320	400	480	560
			Total Pressure	.005	.019	.043	.078	.122	.175	.238
			Static Pressure	.003	.014	.032	.057	.088	.127	.173
			Noise Criteria	<15	<15	<15	18	27	35	41
			Throw	2-4-10	6-10-16	10-14-20	13-16-23	15-18-26	16-20-29	18-22-31
		4 Ft.	Airflow, CFM	160	280	400	520	640	760	880
			Total Pressure	.011	.034	.070	.118	.178	.251	.336
			Static Pressure	.005	.018	.036	.061	.092	.130	.174
			Noise Criteria	<15	<15	<15	22	31	38	44
			Throw	3-15-14	7-12-22	12-17-26	15-21-30	18-23-32	21-25-36	23-27-39
		5 Ft.	Airflow, CFM	200	335	470	605	740	875	1010
			Total Pressure	.014	.040	.079	.130	.194	.271	.361
			Static Pressure	.005	.016	.032	.054	.079	.110	.147
			Noise Criteria	<15	<15	<15	23	31	38	44
			Throw	3-5-15	7-13-23	12-18-28	15-23-32	19-25-35	23-27-29	23-29-41
2.5" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, CFM	80	170	260	350	440	530	620
			Total Pressure	.003	.015	.034	.061	.097	.140	.192
			Static Pressure	.002	.012	.027	.049	.077	.112	.153
			Noise Criteria	<15	<15	<15	17	27	34	41
			Throw	2-4-10	7-10-17	11-14-21	14-17-24	15-19-27	17-21-31	19-23-32
		4 Ft.	Airflow, CFM	160	295	430	595	700	835	970
			Total Pressure	.007	.024	.051	.088	.136	.193	.260
			Static Pressure	.004	.016	.033	.056	.086	.122	.165
			Noise Criteria	<15	<15	<15	21	29	37	43
			Throw	3-5-14	8-13-23	13-19-27	16-22-31	20-24-34	22-26-38	23-29-41
		5 Ft.	Airflow, CFM	200	350	500	650	800	950	1100
			Total Pressure	.010	.029	.059	.100	.151	.212	.284
			Static Pressure	.005	.017	.033	.057	.086	.121	.162
			Noise Criteria	<15	<15	<15	21	29	37	43
			Throw	3-5-15	8-14-24	13-19-29	17-23-33	21-26-37	23-28-40	25-31-43

For performance table notes, see page A40.

PERFORMANCE DATA • HORIZONTAL HIGH THROW SERIES

MODELS: FLH30 AND FTH30 • 2 SLOT WITH NAILOR PLENUM



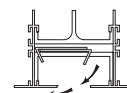
3" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Airflow, CFM	80	180	280	380	480	580	680
			Total Pressure	.004	.022	.053	.097	.155	.226	.311
			Static Pressure	.003	.015	.036	.067	.106	.156	.214
			Noise Criteria	<15	<15	<15	17	28	36	43
			Throw	1-3-9	6-10-17	11-15-22	14-18-25	16-20-29	18-22-32	20-24-34
		4 Ft.	Airflow, CFM	150	300	450	600	750	900	1050
			Total Pressure	.009	.035	.080	.143	.222	.321	.436
			Static Pressure	.004	.016	.038	.067	.104	.151	.205
			Noise Criteria	<15	<15	<15	19	29	38	45
			Throw	2-4-12	6-12-23	12-18-28	16-23-32	20-25-35	23-28-39	24-30-42
		5 Ft.	Airflow, CFM	180	350	520	690	860	1030	1200
			Total Pressure	.011	.042	.092	.162	.251	.360	.489
			Static Pressure	.004	.016	.035	.062	.096	.138	.186
			Noise Criteria	<15	<15	<15	19	29	38	45
			Throw	2-4-13	6-13-24	13-19-30	16-24-34	21-27-38	24-30-41	26-32-45
3" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, CFM	80	180	280	380	480	580	680
			Total Pressure	.004	.017	.042	.077	.124	.180	.248
			Static Pressure	.003	.014	.034	.063	.100	.146	.201
			Noise Criteria	<15	<15	<15	<15	23	32	39
			Throw	1-3-9	6-10-17	11-15-22	14-18-25	16-20-29	18-22-32	20-24-34
		4 Ft.	Airflow, CFM	150	310	470	630	790	950	1110
			Total Pressure	.006	.024	.056	.100	.156	.226	.309
			Static Pressure	.003	.014	.033	.059	.093	.135	.184
			Noise Criteria	<15	<15	<15	23	29	35	42
			Throw	2-4-12	7-13-23	13-19-28	17-23-32	21-26-36	23-28-40	25-31-43
		5 Ft.	Airflow, CFM	180	360	540	720	900	1080	1260
			Total Pressure	.007	.027	.060	.108	.169	.244	.331
			Static Pressure	.003	.014	.031	.056	.087	.126	.170
			Noise Criteria	<15	<15	16	24	30	35	42
			Throw	2-4-13	6-13-24	13-19-30	17-24-35	22-28-39	24-30-42	26-32-46

Performance Notes:

1. Data is based upon FlowLine™ with Nailor engineered plenum (uninsulated) as a complete assembly.
2. All pressures are in inches w.g..
3. Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
4. Noise criteria values are based on 10 dB room absorption, re 10⁻¹² watts.
5. Throw values are based on a 1-way air pattern. For 2-way pattern, throw is determined from the 1 slot data at half the specified air volume.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

PERFORMANCE DATA • HORIZONTAL HIGH THROW SERIES

MODELS: FLH (10, 15, 20, 25 & 30) • CONTINUOUS PRESSURIZED PLENUM



A

FLOWLINE™ LINEAR DIFFUSERS

1" Slot Width	1 Slot	Airflow, CFM/FT.	20	35	50	65	80	95	110
		Static Pressure	.013	.039	.080	.135	.205	.289	.387
		Noise Criteria	<15	<15	23	30	36	42	45
		Throw	4-6-12	7-11-16	10-14-20	13-16-22	15-18-25	16-20-27	17-21-30
1.5" Slot Width	2 Slot	Airflow, CFM/FT.	40	70	100	130	160	190	220
		Static Pressure	.013	.039	.080	.135	.205	.289	.387
		Noise Criteria	<15	<15	25	33	39	45	48
		Throw	5-8-17	10-15-24	15-20-29	17-22-32	19-25-35	20-28-38	22-30-40
2" Slot Width	1 Slot	Airflow, CFM/FT.	25	40	55	70	85	100	115
		Static Pressure	.011	.029	.054	.089	.130	.180	.237
		Noise Criteria	<15	<15	17	25	31	36	40
		Throw	5-8-12	9-12-17	12-15-20	14-17-22	15-18-25	16-20-28	17-21-30
2.5" Slot Width	2 Slot	Airflow, CFM/FT.	55	80	105	130	155	180	205
		Static Pressure	.014	.029	.049	.076	.108	.145	.189
		Noise Criteria	<15	<15	16	26	31	35	39
		Throw	8-12-19	12-17-25	15-20-29	17-22-31	20-26-35	21-27-39	23-30-40
3" Slot Width	1 Slot	Airflow, CFM/FT.	25	45	65	85	105	125	145
		Static Pressure	.007	.021	.044	.075	.115	.163	.219
		Noise Criteria	<15	<15	19	24	32	38	43
		Throw	4-8-13	8-12-18	11-16-22	14-19-26	16-21-30	17-22-31	20-24-34
3.5" Slot Width	2 Slot	Airflow, CFM/FT.	45	85	125	165	205	245	285
		Static Pressure	.005	.019	.042	.073	.113	.161	.218
		Noise Criteria	<15	<15	19	26	34	40	45
		Throw	4-9-15	11-16-25	16-21-29	21-26-37	23-28-40	26-31-42	27-32-44
4" Slot Width	1 Slot	Airflow, CFM/FT.	30	55	80	105	130	155	180
		Static Pressure	.009	.031	.065	.113	.173	.245	.331
		Noise Criteria	<15	<15	18	25	30	34	39
		Throw	3-7-16	9-14-21	13-18-26	15-20-29	18-22-33	20-25-36	21-27-39
4.5" Slot Width	2 Slot	Airflow, CFM/FT.	60	105	150	195	240	285	330
		Static Pressure	.009	.028	.057	.097	.147	.207	.278
		Noise Criteria	<15	<15	21	27	32	37	41
		Throw	7-12-22	13-19-28	19-24-35	22-27-39	25-31-44	27-33-48	29-36-51
5" Slot Width	1 Slot	Airflow, CFM/FT.	30	60	90	120	150	180	210
		Static Pressure	.008	.033	.074	.131	.205	.296	.403
		Noise Criteria	<15	<15	15	24	30	35	40
		Throw	3-6-15	10-14-22	14-19-27	17-23-32	19-25-35	22-27-39	24-29-42
5.5" Slot Width	2 Slot	Airflow, CFM/FT.	60	120	180	240	300	360	420
		Static Pressure	.008	.033	.074	.131	.205	.296	.403
		Noise Criteria	<15	<15	18	27	33	38	43
		Throw	4-9-20	12-20-31	19-26-38	24-31-44	27-34-48	30-37-53	32-40-57

NC 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	+ 5	+ 6	+ 7	+ 8	+ 11

Throw Correction Factors for Various Lengths

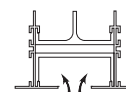
Length (ft.)	2	4	6	8	10	12
Multiplier	0.70	1.00	1.25	1.40	1.55	1.70

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..
- Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Throw data is based on active sections 4 ft. (1219) long. For other lengths, use the correction factor table above.
- Noise criteria values are based on 10 dB room absorption, re 10⁻¹² watts, for a 4 ft. section. For other lengths, use the correction factor table above.
- Throw values are based on a 1-way air pattern. For 2-way pattern, throw is determined from the 1 slot data at half the specified air volume.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

PERFORMANCE DATA • RETURN (NO PATTERN CONTROLLERS)

MODELS: FLR (10, 15, 20, 25 & 30) • CONTINUOUS SLOT



A

FLOWLINE™ LINEAR DIFFUSERS

1" Slot Width	1 Slot	Airflow, CFM/FT.	20	40	60	80	100	120	140
		Neg. Static Pressure	.008	.029	.066	.118	.182	.262	.357
		Noise Criteria	—	—	<20	24	28	34	39
	2 Slot	Airflow, CFM/FT.	40	85	130	175	220	265	310
		Neg. Static Pressure	.008	.038	.090	.163	.258	.374	.512
		Noise Criteria	—	<15	23	27	32	37	42
1.5" Slot Width	1 Slot	Airflow, CFM/FT.	30	60	90	120	150	180	210
		Neg. Static Pressure	.008	.032	.072	.128	.200	.288	.392
		Noise Criteria	—	—	<15	23	29	35	40
	2 Slot	Airflow, CFM/FT.	60	120	180	240	300	360	420
		Neg. Static Pressure	.010	.037	.083	.149	.232	.334	.456
		Noise Criteria	—	<15	16	24	31	37	43
2" Slot Width	1 Slot	Airflow, CFM/FT.	35	75	115	155	195	235	275
		Neg. Static Pressure	.006	.030	.070	.128	.202	.293	.402
		Noise Criteria	<15	15	21	25	29	34	39
	2 Slot	Airflow, CFM/FT.	70	150	230	310	390	470	550
		Neg. Static Pressure	.008	.035	.082	.147	.234	.339	.466
		Noise Criteria	<15	18	24	26	32	37	42
2.5" Slot Width	1 Slot	Airflow, CFM/FT.	40	95	150	205	260	315	370
		Neg. Static Pressure	.006	.028	.070	.132	.211	.311	.431
		Noise Criteria	<15	<15	16	24	29	35	48
	2 Slot	Airflow, CFM/FT.	80	190	300	410	520	630	740
		Neg. Static Pressure	.006	.039	.081	.151	.244	.358	.494
		Noise Criteria	<15	<15	20	26	32	38	51
3" Slot Width	1 Slot	Airflow, CFM/FT.	50	115	180	245	310	375	440
		Neg. Static Pressure	.006	.029	.073	.136	.217	.316	.437
		Noise Criteria	<15	<15	16	26	32	37	42
	2 Slot	Airflow, CFM/FT.	100	230	360	490	620	750	880
		Neg. Static Pressure	.007	.035	.084	.157	.251	.365	.540
		Noise Criteria	<15	<15	21	29	35	40	45

NC Correction Factors for Various Lengths

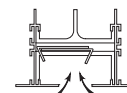
Length (ft.)	2	4	6	8	9	10	15
Correction	- 3	0	+ 2	+ 3	+ 4	+ 5	+ 8

Performance Notes:

1. Data is based upon a negative 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. Noise criteria (NC) shown is based on active sections 4 ft. (1219) long. For other lengths, use the correction factor table above.
4. Noise criteria values are based on 10 dB room absorption, re 10⁻¹² watts, for a 4 ft. section. For other lengths, use the correction factor table above.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

PERFORMANCE DATA • RETURN AIR APPLICATIONS

MODELS: FLH (10, 15, 20, 25 & 30)



Slot Width	1" Slot	Airflow, CFM/FT.	20	35	50	65	80	95	110
		Static Pressure	.014	.043	.088	.149	.226	.318	.426
1" Slot Width	2 Slot	Noise Criteria	<15	<18	26	33	39	45	48
		Airflow, CFM/FT.	40	70	100	130	160	190	220
1.5" Slot Width	1 Slot	Static Pressure	.014	.043	.088	.149	.226	.318	.426
		Noise Criteria	<15	<19	28	36	42	48	51
1.5" Slot Width	2 Slot	Airflow, CFM/FT.	25	40	55	70	85	100	115
		Static Pressure	.012	.032	.059	.098	.143	.198	.261
2" Slot Width	1 Slot	Noise Criteria	<15	<15	20	28	34	39	43
		Airflow, CFM/FT.	55	80	105	130	155	180	205
2" Slot Width	2 Slot	Static Pressure	.015	.032	.054	.084	.119	.160	.208
		Noise Criteria	<15	<15	19	29	34	38	42
2.5" Slot Width	1 Slot	Airflow, CFM/FT.	25	45	65	85	105	125	145
		Static Pressure	.008	.023	.048	.083	.127	.179	.241
2.5" Slot Width	2 Slot	Noise Criteria	<15	<15	22	27	35	41	46
		Airflow, CFM/FT.	45	85	125	165	205	245	285
3" Slot Width	1 Slot	Static Pressure	.006	.021	.046	.080	.124	.177	.240
		Noise Criteria	<15	<15	22	29	37	43	48
3" Slot Width	2 Slot	Airflow, CFM/FT.	30	55	80	105	130	155	180
		Static Pressure	.010	.034	.074	.124	.190	.270	.364
3" Slot Width	3 Slot	Noise Criteria	<15	<15	21	28	33	37	42
		Airflow, CFM/FT.	60	105	150	195	240	285	330
3" Slot Width	4 Slot	Static Pressure	.010	.031	.063	.107	.162	.228	.306
		Noise Criteria	<15	<15	24	30	35	40	44
3" Slot Width	5 Slot	Airflow, CFM/FT.	30	60	90	120	150	180	210
		Static Pressure	.009	.036	.081	.144	.226	.326	.443
3" Slot Width	6 Slot	Noise Criteria	<15	<15	18	27	33	38	43
		Airflow, CFM/FT.	60	120	180	240	300	360	420
3" Slot Width	7 Slot	Static Pressure	.009	.036	.081	.144	.226	.326	.443
		Noise Criteria	<15	<15	22	30	36	41	46

NC Correction Factors for Various Lengths

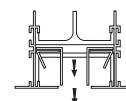
Length (ft.)	2	4	6	8	9	10	15
Return	- 3	0	+ 1	+ 2	+ 3	+ 5	+ 7

Performance Notes:

1. Data is based upon a ductless return application.
2. All pressures are in inches w.g..
3. Noise criteria values are based on 10 dB room absorption, re 10⁻¹² watts, for a 4 ft. (1219) section. For other lengths, use the correction factor table above.
4. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

PERFORMANCE DATA • VERTICAL JET THROW SERIES

MODELS: FLV (10, 15, 20, 25 & 30) • CONTINUOUS PRESSURIZED PLENUM



A

FLOWLINE™ LINEAR DIFFUSERS

Slot Width	1 Slot	Airflow, CFM/FT.	20	40	60	80	100	120	140
		Static Pressure	.005	.018	.041	.074	.114	.164	.223
1" Slot Width	2 Slot	Noise Criteria	—	—	<15	20	24	30	35
		Throw	1-3-10	4-10-21	10-15-29	14-21-33	18-26-37	21-19-41	24-31-44
1.5" Slot Width	1 Slot	Airflow, CFM/FT.	30	60	90	120	150	180	210
		Static Pressure	.005	.020	.045	.080	.125	.180	.245
	2 Slot	Noise Criteria	—	—	<15	20	26	32	37
		Throw	1-3-12	6-12-24	12-19-34	17-24-40	21-31-44	24-34-48	29-36-52
2" Slot Width	1 Slot	Airflow, CFM/FT.	60	120	180	240	300	360	420
		Static Pressure	.006	.023	.052	.093	.145	.209	.285
	2 Slot	Noise Criteria	—	<15	16	24	31	37	43
		Throw	2-6-20	9-20-36	20-31-44	28-36-51	33-41-57	36-44-63	39-47-67
2.5" Slot Width	1 Slot	Airflow, CFM/FT.	35	75	115	155	195	235	275
		Static Pressure	.004	.019	.044	.080	.126	.183	.251
	2 Slot	Noise Criteria	<15	15	21	25	29	34	39
		Throw	1-2-8	4-9-20	9-15-29	14-21-33	18-26-37	21-29-41	25-31-44
3" Slot Width	1 Slot	Airflow, CFM/FT.	70	150	230	310	390	470	550
		Static Pressure	.005	.022	.051	.092	.146	.212	.291
	2 Slot	Noise Criteria	<15	19	25	29	34	39	44
		Throw	2-3-13	7-14-30	15-26-37	23-31-43	28-34-48	31-37-54	33-41-58
3" Slot Width	1 Slot	Airflow, CFM/FT.	40	95	150	205	260	315	370
		Static Pressure	.004	.020	.050	.094	.151	.222	.306
	2 Slot	Noise Criteria	<15	<15	16	24	29	35	48
		Throw	1-2-7	4-10-22	11-18-31	16-25-37	20-30-42	25-32-42	29-36-50
3" Slot Width	1 Slot	Airflow, CFM/FT.	80	190	300	410	520	630	740
		Static Pressure	.004	.023	.058	.108	.174	.256	.353
	2 Slot	Noise Criteria	<15	<15	20	26	35	41	46
		Throw	1-3-11	7-16-33	18-29-42	26-34-48	31-38-54	35-43-60	37-46-65
3" Slot Width	1 Slot	Airflow, CFM/FT.	50	115	180	245	310	375	440
		Static Pressure	.004	.021	.052	.097	.155	.226	.312
	2 Slot	Noise Criteria	<15	<15	16	26	32	37	42
		Throw	1-2-8	5-11-25	12-20-34	17-26-40	22-31-45	26-35-49	31-37-54
3" Slot Width	1 Slot	Airflow, CFM/FT.	100	230	360	490	620	750	880
		Static Pressure	.005	.025	.060	.112	.179	.261	.360
	2 Slot	Noise Criteria	<15	<15	21	29	36	41	45
		Throw	2-3-13	8-17-36	19-31-44	29-37-52	33-41-58	37-45-64	40-49-70

NC 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	+ 5	+ 6	+ 7	+ 8	+ 11

Throw Correction Factors for Various Lengths

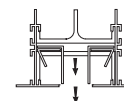
Length (ft.)	2	4	6	8	10	12
Multiplier	0.80	1.00	1.20	1.30	1.40	1.50

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..
- Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- Throw data is based on active sections 4 ft. (1219) long. For other lengths, use the correction factor table above.
- Throw values are based on pattern controller set 100% open.
- Noise criteria values are based on 10 dB room absorption, re 10⁻¹² watts, for a 4 ft. section. For other lengths, use the correction factor table above.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

PERFORMANCE DATA • VERTICAL JET THROW SERIES

MODELS: FLV / FTV (10 & 15) • 1 SLOT WITH NAILOR PLENUM



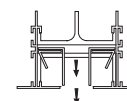
FLOWLINE™ LINEAR DIFFUSERS

1" Slot Width	1 Slot 8" Dia. Inlet	2 Ft.	Airflow, CFM	50	95	140	185	230	275	320
			Total Pressure	.010	.033	.073	.127	.197	.281	.381
			Static Pressure	.007	.029	.062	.109	.168	.241	.325
			Noise Criteria	<15	<15	17	26	33	39	44
			Throw	2-3-10	7-9-19	9-14-24	12-19-28	15-22-31	18-24-34	21-26-36
		4 Ft.	Airflow, CFM	100	175	250	325	400	475	550
			Total Pressure	.018	.056	.113	.190	.289	.408	.547
			Static Pressure	.013	.039	.079	.133	.201	.285	.381
			Noise Criteria	<15	<15	20	29	35	41	46
			Throw	2-4-13	6-11-23	11-17-30	14-21-34	18-26-37	21-29-41	24-31-44
		5 Ft.	Airflow, CFM	110	195	280	365	450	535	620
			Total Pressure	.019	.060	.124	.212	.322	.455	.611
			Static Pressure	.013	.040	.081	.139	.211	.297	.400
			Noise Criteria	<15	<15	21	30	36	42	47
			Throw	1-3-12	6-11-22	10-17-31	14-21-35	18-25-39	21-30-42	23-32-45
1" Slot Width	1 Slot 10" Oval Inlet	2 Ft.	Airflow, CFM	50	95	140	185	230	275	320
			Total Pressure	.006	.022	.049	.087	.134	.192	.259
			Static Pressure	.005	.020	.045	.079	.122	.174	.236
			Noise Criteria	<15	<15	15	23	30	35	40
			Throw	2-3-10	7-9-19	9-14-24	12-19-28	15-22-31	18-24-34	21-26-36
		4 Ft.	Airflow, CFM	100	180	260	340	420	500	580
			Total Pressure	.011	.036	.075	.128	.196	.278	.373
			Static Pressure	.009	.029	.060	.103	.156	.221	.299
			Noise Criteria	<15	<15	17	24	31	37	42
			Throw	2-4-13	7-12-23	11-17-30	14-22-34	18-28-39	22-30-42	25-32-45
		5 Ft.	Airflow, CFM	110	210	310	410	510	610	710
			Total Pressure	.011	.040	.087	.152	.235	.337	.456
			Static Pressure	.009	.030	.065	.114	.177	.256	.342
			Noise Criteria	<15	<15	17	26	33	39	44
			Throw	1-3-12	6-12-24	12-18-32	15-23-37	20-29-41	23-32-45	28-34-48
1" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Airflow, CFM	50	95	140	185	230	275	320
			Total Pressure	.004	.017	.037	.064	.100	.142	.194
			Static Pressure	.004	.016	.035	.061	.094	.135	.182
			Noise Criteria	<15	<15	<15	20	27	32	37
			Throw	2-3-10	7-9-19	9-14-24	12-19-28	15-22-31	18-24-34	21-26-36
		4 Ft.	Airflow, CFM	100	190	280	370	460	550	640
			Total Pressure	.009	.032	.068	.120	.185	.264	.358
			Static Pressure	.007	.028	.060	.105	.163	.232	.315
			Noise Criteria	<15	<15	18	26	33	38	43
			Throw	2-4-13	7-12-24	12-18-31	17-24-36	20-29-41	24-31-44	28-33-47
		5 Ft.	Airflow, CFM	110	220	330	440	550	660	770
			Total Pressure	.007	.016	.035	.061	.094	.135	.182
			Static Pressure	.006	.026	.057	.101	.157	.227	.308
			Noise Criteria	<15	<15	17	24	31	37	42
			Throw	1-3-12	7-12-25	12-19-33	17-25-39	21-31-43	25-33-47	30-36-51
1.5" Slot Width	1 Slot 8" Dia. Inlet	2 Ft.	Airflow, CFM	60	110	160	210	260	310	360
			Total Pressure	.009	.029	.060	.104	.159	.226	.305
			Static Pressure	.006	.021	.046	.079	.122	.173	.234
			Noise Criteria	<15	<15	<15	20	27	33	38
			Throw	1-2-9	4-9-18	9-12-24	11-17-29	13-20-32	17-24-34	19-26-37
		4 Ft.	Airflow, CFM	120	200	280	360	440	520	600
			Total Pressure	.020	.057	.111	.184	.276	.385	.513
			Static Pressure	.013	.035	.068	.113	.170	.236	.316
			Noise Criteria	<15	<15	19	27	33	39	43
			Throw	1-3-12	3-9-21	8-14-29	12-19-34	15-23-37	18-26-41	21-31-44
		5 Ft.	Airflow, CFM	140	220	300	380	460	540	620
			Total Pressure	.026	.062	.116	.186	.272	.376	.494
			Static Pressure	.015	.035	.066	.107	.156	.215	.285
			Noise Criteria	<15	<15	19	26	32	38	42
			Throw	1-3-12	3-8-20	6-13-28	10-18-34	14-21-37	17-24-41	19-29-43

For performance table notes, see page A44.

PERFORMANCE DATA • VERTICAL JET THROW SERIES

MODELS: FLV / FTV (15 & 20) • 1 SLOT WITH NAILOR PLENUM



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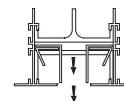
FLOWLINE™ LINEAR DIFFUSERS

1.5" Slot Width	1 Slot 10" Oval Inlet	2 Ft.	Airflow, CFM	60	125	190	255	320	385	450
			Total Pressure	.005	.025	.057	.103	.163	.235	.321
			Static Pressure	.005	.021	.049	.089	.139	.201	.275
			Noise Criteria	<15	<15	<15	23	30	36	41
			Throw	1-2-9	6-10-20	10-14-26	13-20-31	17-24-35	20-28-39	23-30-39
		4 Ft.	Airflow, CFM	120	240	360	480	600	720	840
			Total Pressure	.012	.045	.102	.181	.281	.406	.552
			Static Pressure	.009	.032	.073	.128	.201	.290	.394
			Noise Criteria	<15	<15	19	28	35	41	46
			Throw	1-3-12	6-12-24	12-19-34	17-24-40	21-31-44	24-34-48	29-36-52
		5 Ft.	Airflow, CFM	140	280	420	560	700	840	980
			Total Pressure	.014	.054	.121	.215	.336	.484	.659
			Static Pressure	.009	.036	.081	.144	.226	.325	.443
			Noise Criteria	<15	<15	21	30	37	43	48
			Throw	1-3-12	6-12-25	12-19-35	17-25-41	21-32-46	25-35-51	30-39-54
1.5" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Airflow, CFM	60	125	190	255	320	385	450
			Total Pressure	.004	.019	.044	.078	.123	.179	.244
			Static Pressure	.004	.017	.040	.072	.112	.163	.221
			Noise Criteria	<15	<15	<15	20	28	34	39
			Throw	1-2-9	6-10-20	10-14-26	13-20-31	17-24-35	20-28-39	23-30-42
		4 Ft.	Airflow, CFM	120	240	360	480	600	720	840
			Total Pressure	.007	.031	.070	.123	.192	.276	.376
			Static Pressure	.006	.025	.055	.097	.153	.220	.300
			Noise Criteria	<15	<15	16	24	31	37	42
			Throw	1-3-12	6-12-24	12-19-34	17-24-40	21-31-44	24-34-48	29-36-52
		5 Ft.	Airflow, CFM	140	280	420	560	700	840	980
			Total Pressure	.009	.035	.079	.141	.220	.318	.432
			Static Pressure	.006	.027	.060	.107	.168	.242	.328
			Noise Criteria	<15	<15	16	25	32	38	43
			Throw	1-3-12	6-12-15	12-19-35	17-25-41	21-32-46	25-35-51	30-39-54
2" Slot Width	1 Slot 8" Dia. Inlet	2 Ft.	Airflow, CFM	70	140	210	280	350	420	490
			Total Pressure	.010	.036	.082	.146	.228	.328	.447
			Static Pressure	.006	.026	.058	.103	.161	.232	.316
			Noise Criteria	<15	<15	16	24	32	38	42
			Throw	1-2-7	3-7-14	7-11-21	9-14-25	12-18-27	14-21-30	17-23-32
		4 Ft.	Airflow, CFM	140	220	300	380	460	540	620
			Total Pressure	.025	.060	.111	.178	.261	.36	.474
			Static Pressure	.014	.033	.062	.098	.144	.200	.263
			Noise Criteria	<15	<15	18	25	31	37	41
			Throw	1-2-8	3-5-14	4-9-20	7-13-26	9-15-29	12-18-31	14-21-33
		5 Ft.	Airflow, CFM	150	250	350	450	550	650	750
			Total Pressure	.026	.071	.138	.227	.339	.474	.631
			Static Pressure	.013	.036	.071	.117	.174	.243	.323
			Noise Criteria	<15	<15	21	29	35	41	45
			Throw	1-2-6	2-4-14	3-9-20	6-14-26	9-16-31	13-20-33	14-22-36
2" Slot Width	1 Slot 10" Oval Inlet	2 Ft.	Airflow, CFM	70	150	230	310	390	470	550
			Total Pressure	.005	.027	.062	.112	.179	.259	.354
			Static Pressure	.004	.021	.050	.091	.144	.210	.287
			Noise Criteria	<15	<15	<15	23	30	36	41
			Throw	1-2-7	3-8-15	8-12-22	10-16-26	14-20-29	16-22-31	19-24-34
		4 Ft.	Airflow, CFM	140	265	390	515	640	765	890
			Total Pressure	.013	.047	.103	.179	.276	.394	.534
			Static Pressure	.009	.031	.068	.119	.184	.263	.356
			Noise Criteria	<15	<15	18	27	34	40	45
			Throw	1-2-8	3-7-18	7-13-26	12-17-31	14-21-34	17-26-37	20-28-40
		5 Ft.	Airflow, CFM	150	300	450	600	750	900	1050
			Total Pressure	.013	.054	.122	.212	.331	.477	.649
			Static Pressure	.009	.033	.074	.132	.205	.295	.401
			Noise Criteria	<15	<15	20	29	36	42	47
			Throw	1-2-6	3-6-18	6-14-26	11-18-31	14-22-36	18-26-39	20-30-42

For performance table notes, see page A44.

PERFORMANCE DATA • VERTICAL JET THROW SERIES

MODELS: FLV / FTV (20, 25 & 30) • 1 SLOT WITH NAILOR PLENUM



FLOWLINE™ LINEAR DIFFUSERS

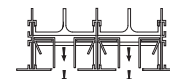
2" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Airflow, CFM	70	160	250	340	430	520	610
			Total Pressure	.004	.022	.055	.102	.162	.236	.325
			Static Pressure	.004	.019	.048	.089	.141	.208	.286
			Noise Criteria	<15	<15	<15	23	30	37	42
			Throw	1-2-7	4-9-16	9-13-23	12-17-27	14-21-30	18-24-33	20-26-36
		4 Ft.	Airflow, CFM	140	290	440	590	740	890	1040
			Total Pressure	.009	.035	.082	.148	.232	.335	.458
			Static Pressure	.006	.027	.061	.109	.172	.249	.340
			Noise Criteria	<15	<15	16	26	33	39	44
			Throw	1-2-8	3-9-20	9-14-28	14-20-32	16-25-37	20-28-40	23-31-43
		5 Ft.	Airflow, CFM	150	330	510	690	870	1050	1230
			Total Pressure	.009	.040	.096	.175	.279	.406	.557
			Static Pressure	.005	.028	.067	.124	.197	.289	.394
			Noise Criteria	<15	<15	18	28	35	41	46
			Throw	1-2-6	3-8-20	8-15-29	14-20-34	17-26-38	20-30-42	25-32-46
2.5" Slot Width	1 Slot 12" Oval Inlet	2 Ft.	Airflow, CFM	80	190	300	410	520	630	740
			Total Pressure	.004	.025	.061	.114	.185	.271	.375
			Static Pressure	.003	.020	.051	.096	.155	.228	.315
			Noise Criteria	<15	<15	<15	24	31	38	43
			Throw	1-2-6	4-9-17	9-14-25	12-19-29	15-23-32	19-26-36	22-27-38
		4 Ft.	Airflow, CFM	150	335	520	705	890	1075	1260
			Total Pressure	.009	.042	.100	.183	.292	.426	.584
			Static Pressure	.005	.029	.071	.129	.207	.301	.413
			Noise Criteria	<15	<15	19	28	36	42	47
			Throw	1-2-6	3-8-20	9-15-30	14-21-35	18-26-39	21-30-43	25-32-46
		5 Ft.	Airflow, CFM	160	370	580	790	1000	1210	1420
			Total Pressure	.009	.044	.108	.200	.320	.469	.646
			Static Pressure	.005	.029	.072	.133	.212	.310	.428
			Noise Criteria	<15	<15	19	29	37	43	48
			Throw	1-1-5	3-7-20	7-15-31	14-20-36	17-26-40	21-31-44	25-34-48
3" Slot Width	1 Slot 14" Oval Inlet	2 Ft.	Airflow, CFM	100	225	350	475	600	725	850
			Total Pressure	.004	.022	.055	.102	.162	.236	.325
			Static Pressure	.004	.020	.048	.088	.141	.205	.282
			Noise Criteria	<15	<15	<15	22	30	36	41
			Throw	1-2-7	4-9-18	9-14-26	13-20-31	16-24-34	20-26-37	23-29-40
		4 Ft.	Airflow, CFM	200	400	600	800	1000	1200	1400
			Total Pressure	.010	.036	.082	.146	.228	.328	.446
			Static Pressure	.006	.027	.061	.108	.169	.244	.333
			Noise Criteria	<15	<15	<15	26	33	39	44
			Throw	1-2-8	3-8-21	8-16-31	14-21-36	18-26-40	21-31-44	25-33-48
		5 Ft.	Airflow, CFM	240	460	680	900	1120	1340	1560
			Total Pressure	.012	.042	.091	.159	.247	.354	.480
			Static Pressure	.007	.030	.064	.112	.174	.249	.338
			Noise Criteria	<15	<15	18	27	34	49	44
			Throw	1-2-8	3-8-21	7-16-32	13-21-37	18-26-42	21-31-45	25-35-48

Performance Notes:

1. Data is based upon FlowLine™ with Nailor engineered plenum (uninsulated) as a complete assembly.
2. All pressures are in inches w.g..
3. Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
4. Noise criteria values are based on 10 dB room absorption, re 10⁻¹² watts.
5. Throw values are based on pattern controller set 100% open.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.

PERFORMANCE DATA • VERTICAL JET THROW SERIES

MODELS: FLV / FTV (10 & 15) • 2 SLOT WITH NAILOR PLENUM



A

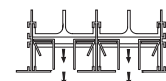
FLOWLINE™ LINEAR DIFFUSERS

1" Slot Width	2 Slot 8" Dia. Inlet	2 Ft.	Airflow, CFM	80	155	230	305	380	455	530
			Total Pressure	.012	.045	.098	.173	.269	.385	.523
			Static Pressure	.009	.032	.070	.122	.189	.272	.369
			Noise Criteria	<15	<15	18	27	34	40	45
			Throw	2-4-13	7-12-23	12-19-29	12-23-33	21-26-36	23-29-40	25-31-43
		4 Ft.	Airflow, CFM	160	260	360	460	560	660	760
			Total Pressure	.031	.083	.159	.261	.386	.537	.712
			Static Pressure	.017	.046	.089	.144	.215	.299	.396
			Noise Criteria	<15	<15	24	31	38	43	48
			Throw	2-4-17	6-12-28	10-29-33	17-24-37	20-29-41	23-31-44	26-34-47
		5 Ft.	Airflow, CFM	200	300	400	500	600	700	800
			Total Pressure	.045	.101	.180	.280	.404	.550	.718
			Static Pressure	.022	.051	.092	.143	.207	.281	.368
			Noise Criteria	<15	<15	25	32	38	43	47
			Throw	2-4-19	4-11-19	9-19-34	13-23-37	19-29-41	22-32-44	25-34-47
1" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Airflow, CFM	80	165	250	335	420	505	590
			Total Pressure	.006	.029	.067	.121	.190	.275	.376
			Static Pressure	.005	.024	.054	.096	.151	.217	.297
			Noise Criteria	<15	<15	<15	23	31	37	42
			Throw	2-4-13	8-13-24	13-20-30	18-24-34	22-28-39	24-30-42	26-32-46
		4 Ft.	Airflow, CFM	160	300	440	580	720	860	1000
			Total Pressure	.016	.057	.122	.212	.326	.464	.628
			Static Pressure	.011	.036	.078	.136	.210	.299	.404
			Noise Criteria	<15	<15	20	29	36	42	47
			Throw	2-4-17	7-15-30	15-23-36	21-30-42	25-33-46	30-35-51	32-39-55
		5 Ft.	Airflow, CFM	200	350	500	650	800	950	1100
			Total Pressure	.022	.068	.140	.238	.360	.506	.679
			Static Pressure	.014	.042	.085	.142	.215	.304	.408
			Noise Criteria	<15	<15	22	31	37	43	47
			Throw	2-4-19	7-14-32	13-23-37	20-31-43	25-43-47	30-36-52	32-40-56
1" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, CFM	80	170	260	350	440	530	620
			Total Pressure	.004	.021	.049	.090	.142	.207	.282
			Static Pressure	.004	.018	.043	.077	.122	.177	.242
			Noise Criteria	<15	<15	<15	21	28	34	39
			Throw	2-4-13	8-13-24	14-21-31	19-25-35	23-28-40	25-31-43	28-33-47
		4 Ft.	Airflow, CFM	160	320	480	640	800	960	1120
			Total Pressure	.010	.036	.082	.147	.229	.330	.448
			Static Pressure	.006	.026	.058	.102	.159	.229	.312
			Noise Criteria	<15	<15	<15	24	32	37	42
			Throw	2-4-17	8-17-31	17-25-37	23-31-44	29-34-48	31-37-54	33-41-57
		5 Ft.	Airflow, CFM	200	375	550	725	900	1075	1250
			Total Pressure	.013	.044	.095	.165	.255	.363	.490
			Static Pressure	.009	.029	.062	.108	.167	.238	.321
			Noise Criteria	<15	<15	17	26	33	38	43
			Throw	2-4-19	8-17-33	17-25-40	23-32-45	29-35-51	32-39-55	34-42-59
1.5" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Airflow, CFM	120	210	300	390	480	570	660
			Total Pressure	.011	.033	.068	.116	.175	.248	.333
			Static Pressure	.007	.024	.048	.082	.124	.175	.234
			Noise Criteria	<15	<15	<15	21	27	33	38
			Throw	2-4-15	6-13-26	12-19-31	17-25-35	21-28-40	24-31-43	26-33-46
		4 Ft.	Airflow, CFM	240	340	440	540	640	740	840
			Total Pressure	.029	.059	.097	.148	.207	.276	.356
			Static Pressure	.016	.032	.055	.082	.114	.154	.198
			Noise Criteria	<15	<15	<15	22	28	32	37
			Throw	2-6-20	4-10-29	8-17-34	11-23-39	15-26-42	21-31-45	23-34-47
		5 Ft.	Airflow, CFM	260	365	470	575	680	785	890
			Total Pressure	.031	.061	.102	.152	.213	.284	.365
			Static Pressure	.016	.031	.052	.078	.109	.146	.187
			Noise Criteria	<15	<15	<15	22	28	32	36
			Throw	2-4-17	3-8-28	6-13-35	9-20-39	12-25-42	17-30-45	21-33-47

For performance table notes, see page A47.

PERFORMANCE DATA • VERTICAL JET THROW SERIES

MODELS: FLV / FTV (15 & 20) • 2 SLOT WITH NAILOR PLENUM

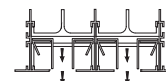


FLOWLINE™ LINEAR DIFFUSERS	1.5" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, CFM	120	230	340	450	560	670	780
				Total Pressure	.006	.025	.054	.094	.146	.209	.284
				Static Pressure	.005	.019	.042	.073	.112	.161	.217
				Noise Criteria	<15	<15	<15	19	26	32	36
				Throw	2-4-15	8-14-28	14-22-33	19-26-39	24-30-43	26-33-46	29-35-40
			4 Ft.	Airflow, CFM	240	390	540	690	840	990	1140
				Total Pressure	.016	.043	.082	.134	.199	.276	.366
				Static Pressure	.010	.027	.050	.082	.122	.170	.225
				Noise Criteria	<15	<15	<15	22	28	33	38
				Throw	2-6-20	6-13-32	17-25-37	23-31-44	29-34-48	31-37-54	33-41-57
			5 Ft.	Airflow, CFM	260	425	590	755	920	1085	1250
				Total Pressure	.017	.046	.089	.144	.215	.300	.397
				Static Pressure	.010	.027	.051	.083	.124	.172	.228
				Noise Criteria	<15	<15	<15	22	29	34	39
				Throw	2-4-17	4-11-32	9-21-39	15-29-44	22-34-48	26-37-53	31-40-56
	1.5" Slot Width	2 Slot 14" Dia. Inlet	2 Ft.	Airflow, CFM	120	240	360	480	600	720	840
				Total Pressure	.005	.018	.042	.074	.116	.167	.227
				Static Pressure	.004	.015	.034	.061	.094	.136	.185
				Noise Criteria	<15	<15	<15	<15	23	29	34
				Throw	2-4-15	8-15-28	15-23-34	21-28-40	25-31-44	28-34-48	30-36-52
			4 Ft.	Airflow, CFM	240	415	590	765	940	1115	1290
				Total Pressure	.010	.030	.060	.101	.152	.214	.287
				Static Pressure	.006	.019	.040	.066	.101	.141	.189
				Noise Criteria	<15	<15	<15	18	24	30	35
				Throw	2-6-20	7-15-33	13-25-40	22-32-45	26-35-51	31-39-55	34-42-55
			5 Ft.	Airflow, CFM	260	440	620	800	980	1160	1340
				Total Pressure	.011	.032	.063	.105	.157	.220	.293
				Static Pressure	.007	.020	.041	.067	.101	.141	.188
				Noise Criteria	<15	<15	<15	18	25	30	35
				Throw	2-4-17	6-12-33	10-23-40	17-30-45	24-35-51	29-39-55	33-42-58
	2" Slot Width	2 Slot 10" Dia. Inlet	2 Ft.	Airflow, CFM	70	140	210	280	350	420	490
				Total Pressure	.003	.013	.028	.050	.078	.112	.154
				Static Pressure	.002	.009	.018	.032	.051	.073	.100
				Noise Criteria	<15	<15	<15	<15	<15	19	24
				Throw	0-1-3	1-3-11	3-6-18	5-11-22	8-14-25	11-18-27	14-20-30
			4 Ft.	Airflow, CFM	250	355	460	565	670	775	880
				Total Pressure	.028	.057	.095	.143	.201	.270	.348
				Static Pressure	.014	.028	.047	.072	.101	.135	.174
				Noise Criteria	<15	<15	<15	21	27	31	35
				Throw	1-3-10	3-5-20	4-9-26	6-13-29	9-19-31	11-21-34	14-25-37
			5 Ft.	Airflow, CFM	280	390	500	610	720	830	940
				Total Pressure	.032	.061	.101	.150	.210	.278	.357
				Static Pressure	.014	.027	.045	.067	.093	.128	.158
				Noise Criteria	<15	<15	<15	21	27	31	35
				Throw	1-3-9	2-4-17	3-7-25	4-10-30	7-14-32	9-20-34	11-23-37
	2" Slot Width	2 Slot 12" Dia. Inlet	2 Ft.	Airflow, CFM	140	275	410	545	680	815	950
				Total Pressure	.007	.028	.062	.109	.170	.244	.332
				Static Pressure	.005	.019	.044	.077	.120	.172	.234
				Noise Criteria	<15	<15	<15	20	27	33	38
				Throw	1-3-11	5-11-22	11-17-27	15-22-31	19-25-35	22-27-38	24-27-38
			4 Ft.	Airflow, CFM	250	425	600	775	950	1125	1300
				Total Pressure	.015	.044	.088	.147	.219	.308	.412
				Static Pressure	.008	.024	.049	.081	.122	.171	.229
				Noise Criteria	<15	<15	<15	22	29	34	39
				Throw	1-3-10	3-8-24	7-14-30	11-21-34	16-26-37	20-29-41	24-31-44
			5 Ft.	Airflow, CFM	280	460	640	820	1000	1180	1360
				Total Pressure	.017	.047	.091	.149	.221	.309	.410
				Static Pressure	.008	.024	.047	.076	.113	.158	.210
				Noise Criteria	<15	<15	<15	22	28	34	38
				Throw	1-3-9	3-6-22	5-12-31	9-19-34	13-25-37	18-29-41	22-31-44

For performance table notes, see page A47.

PERFORMANCE DATA • VERTICAL JET THROW SERIES

MODELS: FLV / FTV (20, 25 & 30) • 2 SLOT WITH NAILOR PLENUM


A
FLOWLINE™ LINEAR DIFFUSERS

2" Slot Width	2 Slot 14" Dia. Inlet	2 Ft.	Airflow, CFM	140	280	420	560	700	840	980
			Total Pressure	.004	.018	.041	.073	.114	.165	.225
			Static Pressure	.003	.014	.031	.055	.086	.123	.168
			Noise Criteria	<15	<15	<15	<15	21	27	32
			Throw	1-3-11	5-11-22	11-18-27	15-22-31	20-25-36	22-27-39	24-30-42
		4 Ft.	Airflow, CFM	250	450	650	850	1050	1250	1450
			Total Pressure	.010	.030	.062	.106	.161	.228	.307
			Static Pressure	.005	.018	.037	.063	.096	.137	.184
			Noise Criteria	<15	<15	<15	18	24	30	35
			Throw	1-3-10	3-9-25	8-17-31	13-24-36	20-28-40	23-31-43	26-33-47
		5 Ft.	Airflow, CFM	280	480	680	880	1080	1280	1480
			Total Pressure	.011	.030	.061	.102	.153	.215	.288
			Static Pressure	.005	.017	.034	.057	.086	.120	.159
			Noise Criteria	<15	<15	<15	16	23	28	33
			Throw	1-3-10	3-8-28	7-15-37	11-25-42	17-31-46	24-26-50	28-38-54
2.5" Slot Width	2 Slot 14" Dia. Inlet	2 Ft.	Airflow, CFM	150	335	520	705	890	1075	1260
			Total Pressure	.004	.022	.054	.098	.157	.229	.315
			Static Pressure	.003	.016	.037	.070	.111	.162	.223
			Noise Criteria	<15	<15	<15	18	26	32	37
			Throw	1-3-9	5-11-24	12-20-30	17-25-35	22-27-39	25-31-43	26-32-46
		4 Ft.	Airflow, CFM	300	540	780	1020	1260	1500	1740
			Total Pressure	.012	.039	.080	.137	.209	.295	.398
			Static Pressure	.006	.021	.044	.076	.116	.164	.220
			Noise Criteria	<15	<15	<15	21	28	33	38
			Throw	1-3-10	3-9-26	8-17-33	13-25-38	20-30-43	25-32-46	28-35-50
		5 Ft.	Airflow, CFM	350	600	850	1100	1350	1600	1850
			Total Pressure	.015	.043	.087	.144	.218	.306	.410
			Static Pressure	.007	.022	.044	.074	.111	.157	.210
			Noise Criteria	<15	<15	<15	22	28	34	38
			Throw	1-3-9	3-7-26	6-14-34	10-23-38	15-29-43	22-33-47	26-36-50
3" Slot Width	2 Slot 14" Dia. Inlet	2 Ft.	Airflow, CFM	175	385	595	805	1015	1225	1435
			Total Pressure	.005	.026	.062	.113	.181	.263	.361
			Static Pressure	.003	.017	.042	.076	.120	.175	.241
			Noise Criteria	<15	<15	<15	20	27	33	38
			Throw	1-3-9	5-10-25	11-20-31	18-26-37	22-29-41	26-31-44	28-34-48
		4 Ft.	Airflow, CFM	320	580	840	1100	1360	1620	1880
			Total Pressure	.013	.042	.087	.149	.227	.322	.433
			Static Pressure	.006	.021	.045	.078	.119	.168	.227
			Noise Criteria	<15	<15	<15	22	27	34	39
			Throw	1-2-9	3-7-26	7-14-34	11-24-39	17-30-43	24-33-47	27-36-51
		5 Ft.	Airflow, CFM	380	645	910	1175	1440	1705	1970
			Total Pressure	.016	.045	.090	.149	.224	.314	.419
			Static Pressure	.007	.020	.041	.068	.103	.144	.193
			Noise Criteria	<15	<15	<15	21	28	33	38
			Throw	1-2-9	3-6-23	5-12-34	9-20-39	13-28-43	18-33-47	24-36-50

Performance Notes:

1. Data is based upon FlowLine™ with Nailor engineered plenum (uninsulated) as a complete assembly.
2. All pressures are in inches w.g..
3. Throw values are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
4. Noise criteria values are based on 10 dB room absorption, re 10⁻¹² watts.
5. Throw values are based on pattern controller set 100% open.
6. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70-2006.