

MODEL

- 1900 - Aluminum, linear slot diffuser

FEATURES

- Extruded aluminum construction
- Numerous frame styles available for varying applications
- Slots reveal black adjustable, removable blades which snap into several positions for airflow volume and pattern control
- Linear appearance complements ceilings and walls with continuous architectural lines
- Matching plenum (1900BOOT) and mitered corner (1900MC) models
- Sections range from 12" to 72" long; units longer than 72" will consist of sections butted together for continuous runs
- Inactive sections may be blanked-off using optional blank-off strips, which ship separately in 72" lengths to be field cut

SLOTS

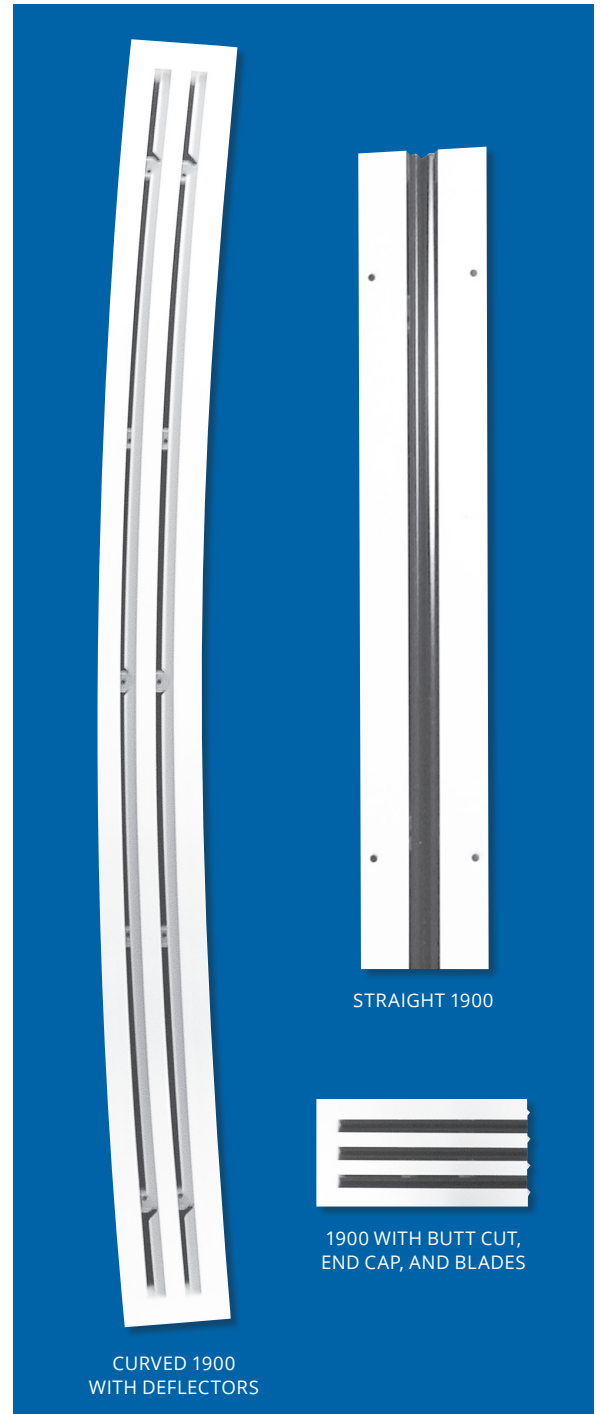
- Slot Quantity: 1 - 8 ¹
- Slot Width:
 - Model 1950 = 1/2"
 - Model 1910 = 1"
 - Model 1920 = 2" ¹
 - Model 1975 = 3/4"
 - Model 1915 = 1 1/2"
- Slot Length: 12" - 999" (1/8" increments)

FRAME STYLES

- A - T-bar ceiling mount ²
- B - Surface mount with screw fastening
- C - Surface mount with concealed fastening
- D - Plaster tile mount with concealed fastening
- E - Surface mount with sub-frame and concealed fastening
- F - Plaster and tile mount with concealed flush face
- I - Spline ceiling
- J - Surface mount with no screw holes
- K - Narrow-T ceiling mount
- L - Exposed spiral duct mount
- M - Mud-in mount with concealed flush face
- N - TechZone 9/16" Narrow-T tegular ceiling mount ³
- S - TechZone standard T-bar ceiling mount ³

COMPATIBLE OPTIONS AND ACCESSORIES

- Removable blades
- Matching plenum (1900BOOT)
- Matching mitered corner model (1900MC)
- End caps, end plate, or butt cut end borders
- Custom curving available upon request ⁴
- BOS - Blank-off strip



NOTES: Not all options available with all configurations or one another. See website for complete compatibility.

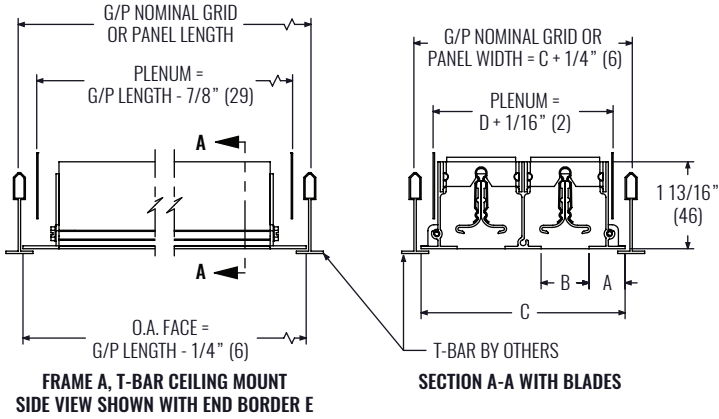
- ¹ Slot quantities 5, 6, 7, and 8 not available with 1 1/2" or 2" slot widths.
- ² Frame A automatically undersized, regardless of end border, to fit nominal grid size. Ordered length = nominal grid length.
- ³ TechZone™ is a registered trademark of Armstrong®.
- ⁴ Curved units do not have adjustable deflection.

WEB SEARCH: 1900



DIMENSIONAL DATA - FRAME STYLES

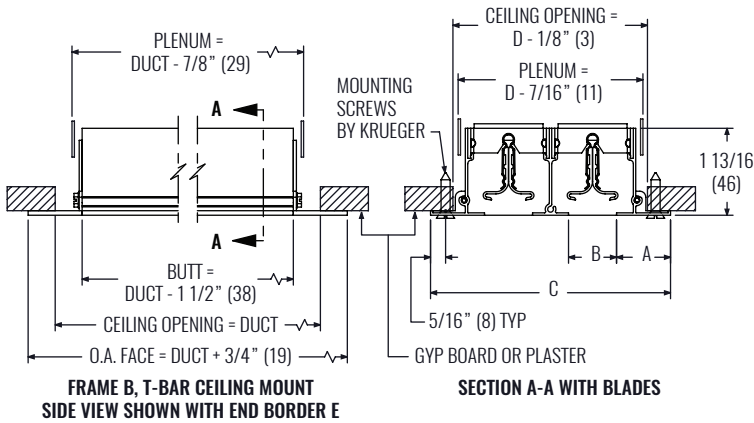
FRAME STYLE A



NOTES: Dimensions in parentheses are millimeters (mm).

DIMENSIONS - FRAME A, T-BAR CEILING MOUNT				
SLOT	A	B	C	D
1975 (3/4" SLOT WIDTH)				
1	3/4" (19)	3/4" (19)	2 1/4" (57)	1 5/8" (41)
2	3/4" (19)	3/4" (19)	3 3/4" (95)	3 1/8" (79)
3	3/4" (19)	3/4" (19)	5 1/4" (133)	4 5/8" (117)
4	3/4" (19)	3/4" (19)	6 3/4" (171)	6 1/8" (156)
1910 (1" SLOT WIDTH)				
1	3/4" (19)	1" (25)	2 1/2" (64)	1 7/8" (48)
2	3/4" (19)	1" (25)	4 1/4" (108)	3 5/8" (92)
3	3/4" (19)	1" (25)	6" (152)	5 3/8" (137)
4	3/4" (19)	1" (25)	7 3/4" (197)	7 1/8" (181)

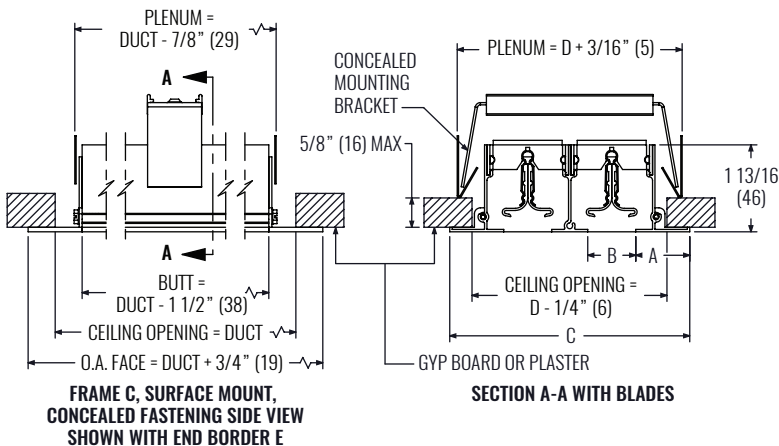
FRAME STYLE B



NOTES: Dimensions in parentheses are millimeters (mm).

DIMENSIONS - FRAME B, T-BAR CEILING MOUNT				
SLOT	A	B	C	D
1975 (3/4" SLOT WIDTH)				
1	1 1/8" (29)	3/4" (19)	3" (76)	2 1/8" (54)
2	1 1/8" (29)	3/4" (19)	4 1/2" (114)	3 5/8" (92)
3	1 1/8" (29)	3/4" (19)	6" (152)	5 1/8" (130)
4	1 1/8" (29)	3/4" (19)	7 1/2" (191)	6 5/8" (168)
1910 (1" SLOT WIDTH)				
1	1 1/8" (29)	1" (25)	3 1/4" (83)	2 3/8" (60)
2	1 1/8" (29)	1" (25)	5" (127)	4 1/8" (105)
3	1 1/8" (29)	1" (25)	6 3/4" (171)	5 7/8" (149)
4	1 1/8" (29)	1" (25)	8 1/2" (216)	7 5/8" (194)

FRAME STYLE C

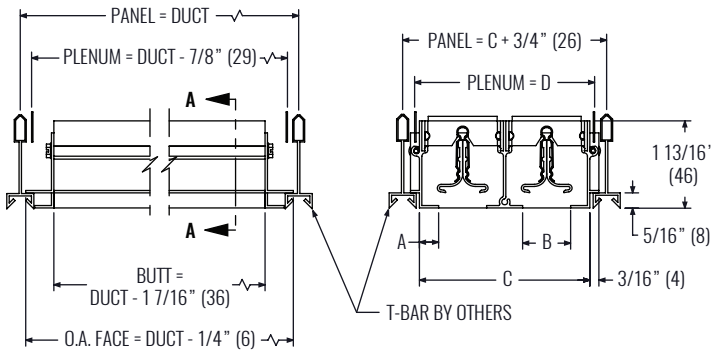


NOTES: Dimensions in parentheses are millimeters (mm).

DIMENSIONS - FRAME C, SURFACE MOUNT, CONCEALED FASTENING				
SLOT	A	B	C	D
1975 (3/4" SLOT WIDTH)				
1	1 1/8" (29)	3/4" (19)	3" (76)	2 1/4" (57)
2	1 1/8" (29)	3/4" (19)	4 1/2" (114)	3 3/4" (95)
3	1 1/8" (29)	3/4" (19)	6" (152)	5 1/4" (133)
4	1 1/8" (29)	3/4" (19)	7 1/2" (191)	6 3/4" (171)
1910 (1" SLOT WIDTH)				
1	1 1/8" (29)	1" (25)	3 1/4" (83)	2 1/2" (64)
2	1 1/8" (29)	1" (25)	5" (127)	4 1/4" (108)
3	1 1/8" (29)	1" (25)	6 3/4" (171)	6" (152)
4	1 1/8" (29)	1" (25)	8 1/2" (216)	7 3/4" (197)

DIMENSIONAL DATA - FRAME STYLES

FRAME STYLE K



**FRAME K, NARROW-T CEILING MOUNT
SIDE VIEW SHOWN WITH END BORDER E**

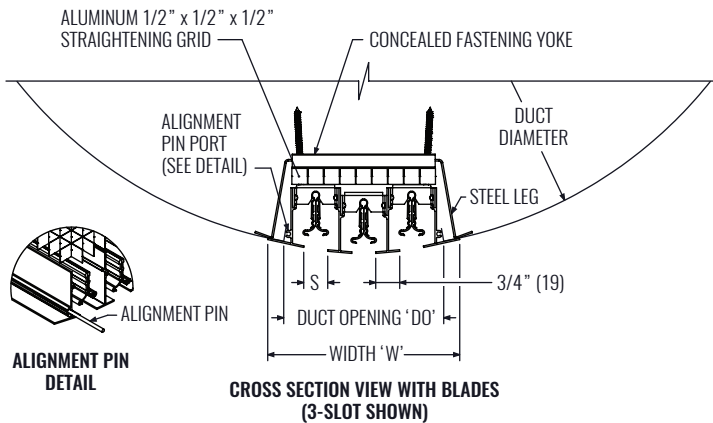
SECTION A-A WITH BLADES

NOTES: Dimensions in parentheses are millimeters (mm).

DIMENSIONS - FRAME K, NARROW-T CEILING MOUNT

SLOT	A	B	C	D
1975 (3/4" SLOT WIDTH)				
1	13/32" (10)	3/4" (19)	1 9/16" (40)	1 11/16" (43)
2	13/32" (10)	3/4" (19)	3 1/16" (78)	3 3/16" (81)
3	13/32" (10)	3/4" (19)	4 9/16" (116)	4 11/16" (119)
4	13/32" (10)	3/4" (19)	6 1/16" (154)	6 3/16" (157)
1910 (1" SLOT WIDTH)				
1	13/32" (10)	1" (25)	1 13/16" (46)	1 15/16" (49)
2	13/32" (10)	1" (25)	3 9/16" (90)	3 11/16" (94)
3	13/32" (10)	1" (25)	5 5/16" (135)	5 7/16" (138)
4	13/32" (10)	1" (25)	7 1/16" (179)	7 3/16" (183)

FRAME STYLE L



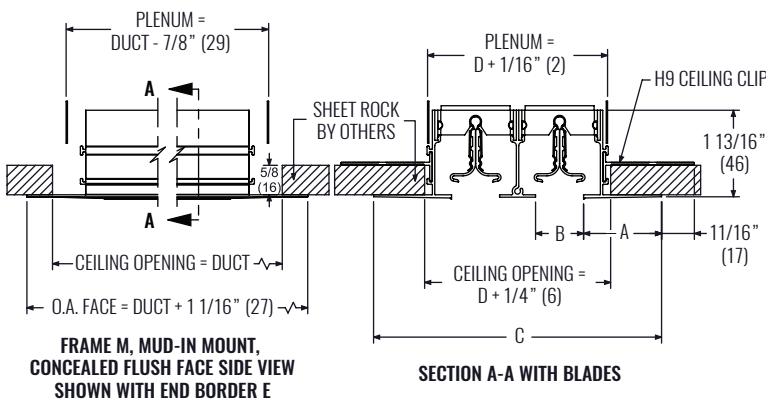
**CROSS SECTION VIEW WITH BLADES
(3-SLOT SHOWN)**

NOTES: Dimensions in parentheses are millimeters (mm).

DIMENSIONS - FRAME L, EXPOSED SPIRAL DUCT

SLOTS	DUCT DIAMETER Ø	W	DO	S
1975 (3/4" SLOT WIDTH)				
1	10" (254) - 24" (610)	3" (76)	2" (51)	0.75" (19)
2	12" (305) - 24" (610)	4.5" (114)	3.5" (89)	0.75" (19)
3	14" (356) - 30" (762)	6" (152)	5" (127)	0.75" (19)
4	20" (508) - 30" (762)	7.5" (191)	6.5" (165)	0.75" (19)
1910 (1" SLOT WIDTH)				
1	10" (254) - 24" (610)	3.25" (83)	2.25" (57)	0.75" (19)
2	12" (305) - 28" (711)	5" (127)	4" (102)	0.75" (19)
3	16" (406) - 32" (813)	6.75" (171)	5.75" (146)	0.75" (19)
4	26" (660) - 48" (1219)	8.5" (216)	7.5" (191)	0.75" (19)

FRAME STYLE M



**FRAME M, MUD-IN MOUNT,
CONCEALED FLUSH FACE SIDE VIEW
SHOWN WITH END BORDER E**

SECTION A-A WITH BLADES

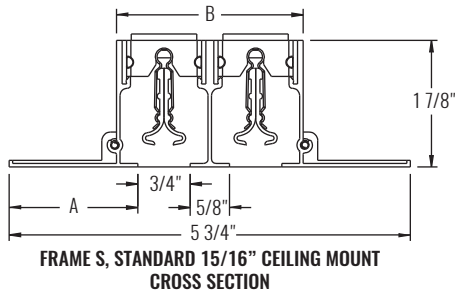
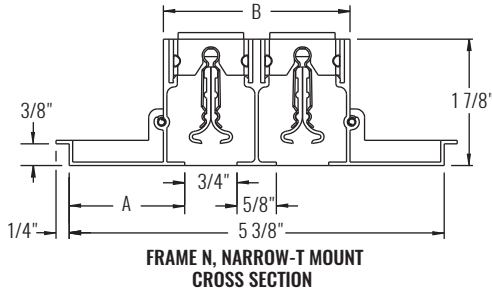
NOTES: Dimensions in parentheses are millimeters (mm).

DIMENSIONS - FRAME K, NARROW-T CEILING MOUNT

SLOT	A	B	C	D
1975 (3/4" SLOT WIDTH)				
1	1 5/8" (41)	3/4" (19)	4" (102)	1 5/8" (41)
2	1 5/8" (41)	3/4" (19)	5 1/2" (140)	3 1/8" (79)
3	1 5/8" (41)	3/4" (19)	7" (178)	4 5/8" (117)
4	1 5/8" (41)	3/4" (19)	8 1/2" (216)	6 1/8" (156)
1910 (1" SLOT WIDTH)				
1	1 5/8" (41)	1" (25)	4 1/4" (108)	1 7/8" (48)
2	1 5/8" (41)	1" (25)	6" (152)	3 5/8" (92)
3	1 5/8" (41)	1" (25)	7 3/4" (197)	5 3/8" (137)
4	1 5/8" (41)	1" (25)	9 1/2" (241)	7 1/8" (181)

DIMENSIONAL DATA - FRAME STYLES AND END BORDERS

TECHZONE™ FRAMES N and S



DIMENSIONS - TECHZONE™ FRAME N, NARROW-T CEILING

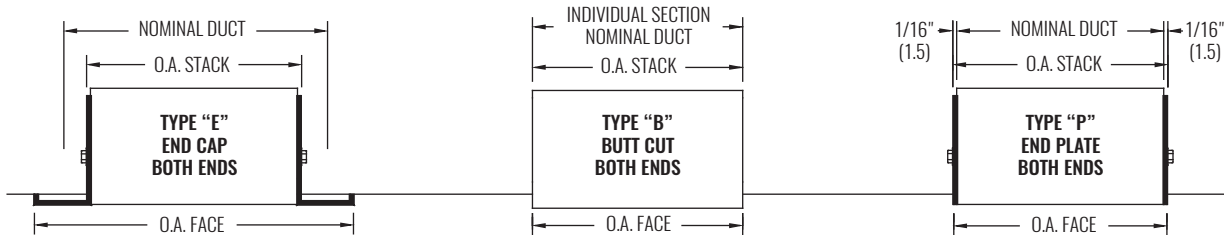
SLOT	A	B
1920 (3/4" SLOT WIDTH)		
1	2 3/8" (60)	1 3/8" (35)
2	1 5/8" (41)	2 5/8" (67)
3	1" (25)	4" (102)
4	3/8" (10)	5 1/4" (133)

DIMENSIONS - TECHZONE™ FRAME S, STANDARD 15/16" CEILING

SLOT	A	B
1975 (3/4" SLOT WIDTH)		
1	2 1/2" (64)	1 3/8" (35)
2	1 7/8" (48)	2 5/8" (67)
3	1 1/4" (32)	4" (102)
4	1/2" (13)	5 1/4" (133)

NOTES: Dimensions in parentheses are millimeters (mm). Frames designed to fit into Armstrong TECHZONE Standard Ceiling Grid Systems. Available in 3 and 4-slot configurations. Available in 30", 36", 48", 60", 72", and 96" nominal lengths. TECHZONE™ is a registered trademark of Armstrong®.

END BORDERS



DIMENSIONS - LENGTHS

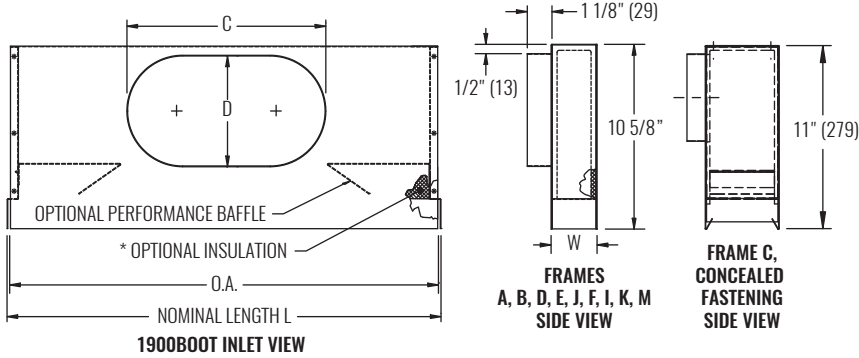
FRAME STYLE	END TYPE "E"		END TYPE "B"		END TYPE "P"	
	OA STACK ¹	OA FACE	OA STACK	OA FACE	OA STACK ¹	OA FACE
A	G/P - 1 5/8" (41)	G/P - 1/4" (6)	G/P - 1/4" (6)	G/P - 1/4" (6)	G/P - 1/2" (13)	G/P - 1/2" (13)
B	D - 1 3/8" (35)	D + 3/4" (19)	DUCT	DUCT	D + 1/8" (3)	D + 1/8" (3)
C	D - 1 3/8" (35)	D + 3/4" (19)	DUCT	DUCT	D + 1/8" (3)	D + 1/8" (3)
K	D - 17/16" (27)	D - 1/4" (6)	DUCT	DUCT	N/A	N/A
L	D - 1 3/8" (35)	D + 3/4" (19)	DUCT	DUCT	N/A	N/A
M	D - 1 13/16" (21)	D + 1 1/16" (2)	DUCT	DUCT	N/A	N/A
N	N/A	N/A	N/A	N/A	D - 3/4" (19)	D - 5/8" (16)
S	D - 1 1/2" (38)	D - 3/16" (5)	N/A	N/A	N/A	N/A

NOTES: Dimensions in parentheses are millimeters (mm). 'D' is nominal duct length. 'OA' is overall length. 'G/P' is grid/panel size.

¹ Screw used to secure end caps and plates has head which sticks out approximately 1/8" further than stack. To ensure a proper fit, opening or duct must be a minimum of 1/4" larger than stack when these end borders are used. For end plate end borders this screw sticks out past the face, resulting in an overall footprint larger than the OA face.

DIMENSIONAL DATA - 1900BOOT

1900BOOT



OVAL INLET DIMENSIONS		
INLET SIZE	C	D
6" OVAL	6 1/4" (159)	5 1/4" (133)
8" OVAL	9 3/8" (238)	5 1/4" (133)
10" OVAL	12 1/2" (318)	5 1/4" (133)
12" OVAL	14 1/8" (359)	7 7/8" (200)
TECHZONE™ 12" OVAL	15 5/8" (397)	5 1/4" (133)

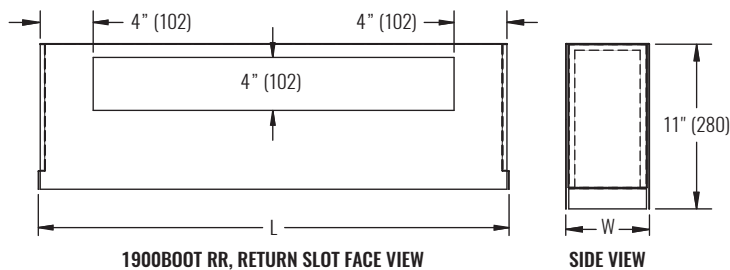
AVAILABLE INLET SIZES		
MODEL	NOMINAL LENGTH L	NOMINAL INLET
1950, 1975, 1910, 1915, 1920	24" (610), 36" (914)	6", 8", 10"
	48" (1219), 60" (1524), 72" (1829)	6", 8", 10", 12"

PLENUM LENGTHS		
END BORDER	O.A. FOR FRAME STYLES	
	A, B, C, F, I, J, AND K	D AND E
"E" (2) END CAPS	L - 7/8" (22)	L - 1/4" (6)
"B" (2) BUTT CUT	L - 1/4" (6)	L - 1/4" (6)
"P" (2) END PLATES	L - 1/4" (6)	L - 1/4" (6)

WIDTH DIMENSIONS				
MODEL	1-SLOT	2-SLOTS	3-SLOTS	4-SLOTS
W DIMENSION FOR FRAMES A, B, F, I, J, AND K				
1975	1 11/16" (43)	3 3/16" (81)	4 11/16" (119)	6 3/16" (157)
1910	1 15/16" (49)	3 11/16" (94)	5 7/16" (138)	7 3/16" (183)
W DIMENSION FOR FRAMES C, D, AND E				
1975	2 7/16" (62)	3 15/16" (100)	5 7/16" (138)	6 15/16" (176)
1910	2 11/16" (68)	4 7/16" (113)	6 3/16" (157)	7 15/16" (202)
W DIMENSION FOR TECHZONE™ FRAMES N AND S				
1975	1 7/16" (37)	2 11/16" (68)	4 1/8" (105)	5 7/16" (138)

NOTES: Dimensions in parentheses are millimeters (mm).

1900BOOT RETURN SLOT PLENUM

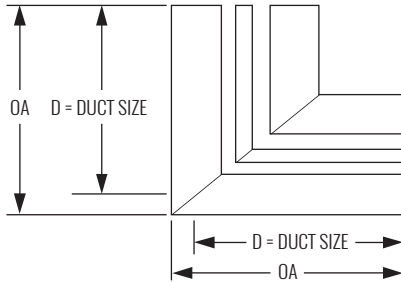


DIMENSIONS - AVAILABLE WIDTHS	
NOMINAL LENGTH	L
24" (610)	23 1/8" (587)
30" (762)	29 1/8" (740)
36" (914)	35 1/8" (892)
48" (1219)	47 1/8" (1199)
60" (1524)	59 1/8" (1502)
72" (1829)	71 1/8" (1807)

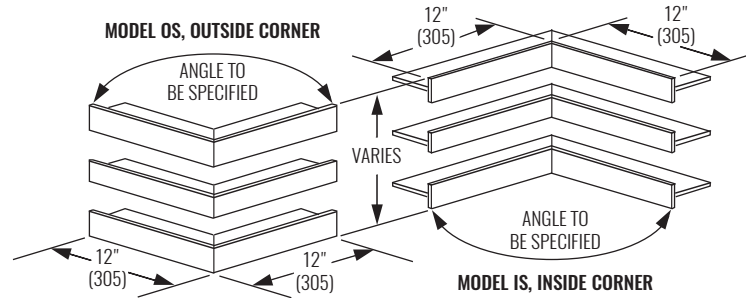
NOTES: Dimensions in parentheses are millimeters (mm). 24 gauge galvanized steel construction. Mill finish is standard. End caps are not insulated (standard). Insulation not available with inlet size RR.

DIMENSIONAL DATA

MITERED CORNERS



STANDARD FLAT FACE (SD) MITER FOR CEILING MOUNT



OUTSIDE (OS) AND INSIDE (IS) CORNER FOR WALL MOUNT

DIMENSIONS - OA BY FRAME

SLOT QTY	A	B, J	C, D, E	F, I, K	M	N, S	NOMINAL DUCT D
1	12 5/16" (313)	12 7/16" (316)	12 3/8" (315)	12" (305)	13 3/16" (335)	14 3/16" (361)	12"
2	12 5/16" (313)	12 7/16" (316)	12 3/8" (315)	12" (305)	13 3/16" (335)	13 9/16" (345)	12"
3	24 5/16" (618)	24 7/16" (621)	24 3/8" (620)	24" (610)	25 3/16" (640)	24 7/8" (632)	24"
4-8	24 5/16" (618)	24 7/16" (621)	24 3/8" (620)	24" (610)	25 3/16" (640)	24 3/16" (615)	24"

NOTES: Dimensions in parentheses are millimeters (mm). Table applies to standard flat face (SD) mount only. OA dimensions measured at face, except for frame N which is measured flange to flange. For some frames (F, I, K, and the sub-frame of D), the face is not the widest part of the unit, therefore the OA dimension is not indicative of overall footprint. For Frame F, I and K, OA= nominal duct. Miters are inactive and come standard with butt cut ends, no blades, and with blank offs installed at factory. Custom angles are available upon request.

PERFORMANCE DATA

SIZE			PERFORMANCE - HORIZONTAL THROW, 48" UNIT LENGTH				DESIGN		
SLOT WIDTH	SLOT QTY	NOMINAL INLET	NC (< 25)		NC (25 - 40)		CFM @ NC=30	SPACING @ 0.6 CFM/sf (ft)	MINIMUM CFM/sf
			CFM	THROW (ft)	CFM	THROW (ft)			
3/4"	2	6"	70 - 125	13 - 17	135 - 235	18 - 24	165	23	0.25
3/4"	2	8"	100 - 150	16 - 19	165 - 285	20 - 26	190	26	0.25
3/4"	2	10"	120 - 165	17 - 20	180 - 315	21 - 28	220	31	0.25
3/4"	3	8"	95 - 195	15 - 22	210 - 360	23 - 30	250	35	0.25
3/4"	3	10"	100 - 220	16 - 23	235 - 410	24 - 31	280	39	0.25
3/4"	4	10"	110 - 240	13 - 24	260 - 440	25 - 33	300	42	0.25
1"	2	6"	70 - 125	10 - 17	135 - 235	18 - 24	160	22	0.25
1"	2	8"	80 - 150	12 - 19	160 - 275	20 - 26	190	26	0.25
1"	2	10"	90 - 165	13 - 20	180 - 330	21 - 28	220	31	0.25
1"	3	10"	100 - 215	12 - 23	230 - 400	24 - 31	280	39	0.25
1"	4	10"	110 - 260	11 - 25	280 - 510	26 - 35	335	47	0.25
1"	4	12"	130 - 310	13 - 27	330 - 600	28 - 38	390	54	0.25

NOTES: Information shown is abbreviated. See website for complete information. Dimensions in parentheses are millimeters (mm). Throw value ranges are given for isothermal conditions, unless otherwise noted, and a terminal velocity of 50 FPM (0.25 m/s). NC ranges are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. Design spacing is recommended distance between diffusers in an open plan office based on ADPI > 80%, 9ft ceiling, and 55°F discharge at 30 NC and 0.6 CFM/sf. Minimum CFM/sf is based on recommended spacing at 80% ADPI. Design recommendations not applicable to vertical throw. "N/A" in design table denotes situations which do not result in ADPI>80% and are therefore not recommended.