



❖ LFS APPLICATION

LFS supply & return linear slot diffusers offer high performance in a VAV outlet with pattern control and complete blank-off for true design flexibility. Designed for efficient air distribution at cooling differentials up to 30°F.

❖ LFS STANDARD CONSTRUCTION / FEATURES

The linear slot diffuser with deflection is constructed of extruded aluminum alloy 6063-T5 and is phosphate treated with powder coated white RAL 9010 finish. The fully adjustable deflection blades allow air pattern to be controlled from vertical to Horizontal along the ceiling, straight down or at the same intermediate setting.

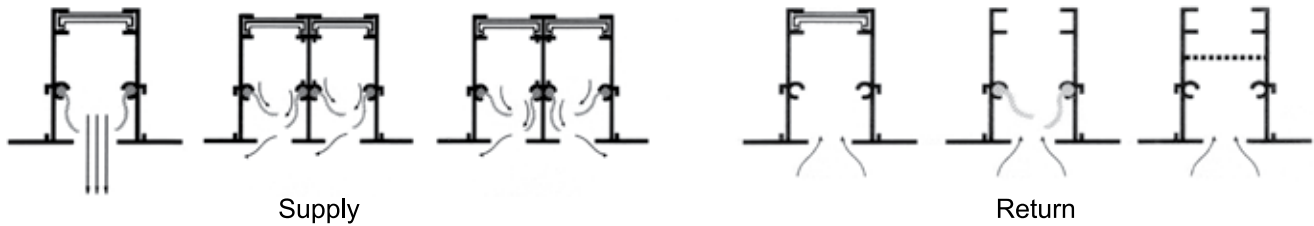
- The Slots are available in 25mm width.
(optional with 19mm slot width)
- Standard finish is white color (Ral 9010).
Other colors are available upon request.
- 3 end caps configuration are available.
- Join strip provides continuous slots.
- Matching return RLSD (supplied without damper or pattern controllers)



❖ LFS OPTIONS

- Frame is available for surface, lay-in T-bar.
- Plenum box - insulated or non-insulated.
- Mitered corner for ceiling & wall application.
- Blank-off baffles.

❖ LFS MODELS & PATTERN ADJUSTMENTS



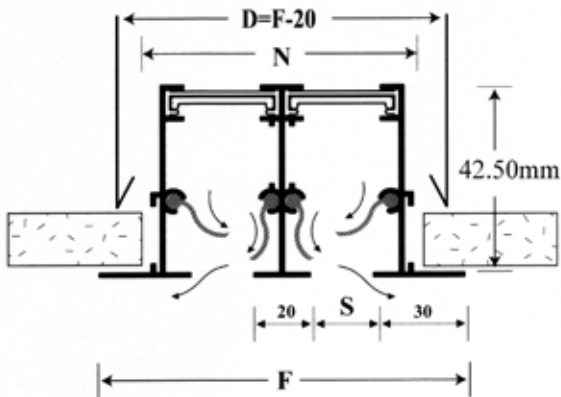
❖ LFS ORDER KEY INFORMATION

LFS - A - S - E + PB

Accessories	Plenum Box w/o Insulation (PB), Plenum Box c/w 5mm P.E foam Insulation (PBL).
End caps configuration	Type (A), Type (B), Type (C)
Throw Pattern	Supply (S), Return (R)
Material	Aluminum
Model	LFS – Fine Slot Diffuser

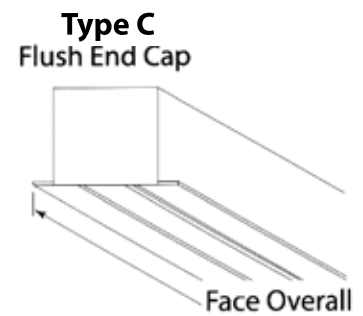
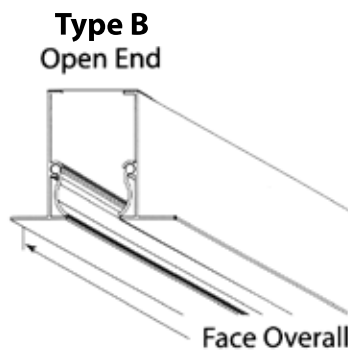
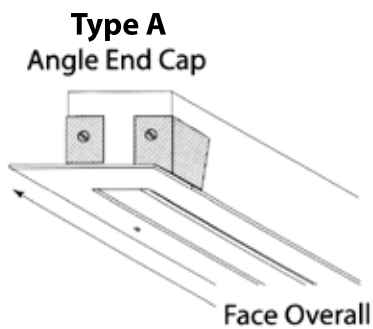


❖ **LFS Physical Dimension**



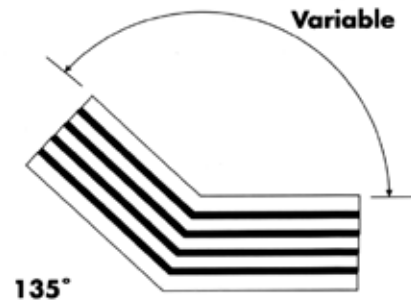
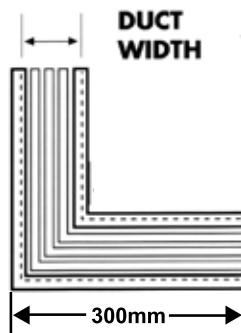
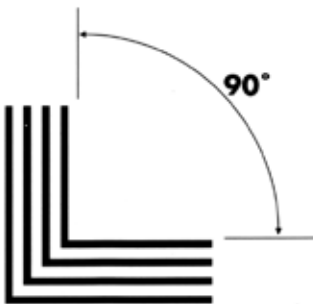
1"	SLS 3900		No. of Slots				S-25mm	
Slot	1	2	3	4	5	6	7	8
N mm	45	90	135	180	225	270	315	360
F mm	83	128	173	218	263	308	353	398

❖ **LFS END CONFIGURATIONS**



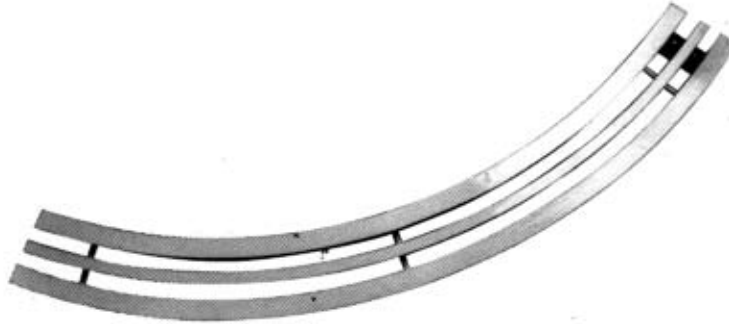
❖ **LFS MITERED CORNERS**

Factory assembled mitered corner sections are available in 90° angle or any special angle. Mitered corner is provided with standard length of 300mm external dimension, other lengths are provided upon request. Factory assembled mitered corner reduces field installation time and assures precision, cutting and proper fit.



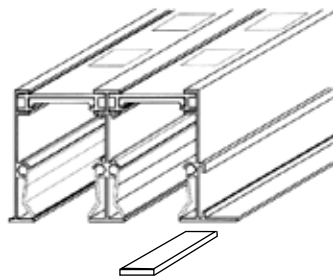
❖ LFS CURVED SLOTS

Factory curved linear slot diffuser can be manufactured as arc or full circle for various radius & number of slots. Curved slots are provided without air pattern.

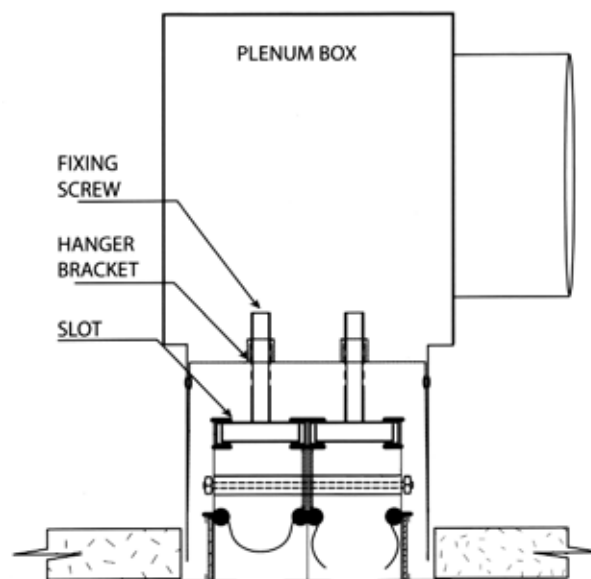


❖ LFS ALIGNMENT STRIPS

Join strips are provided on all units over 2400mm (96") with no extra cost. Providing linear alignment of continuous linear slot diffuser, the join strip slides into the diffuser frame's channels, typical for all frame types.



❖ LFS INSTALLATION INSTRUCTIONS



❖ LFS PERFORMANCE DATA - SUPPLY AIR 25mm WIDTH SLOTS

Cfm/ft	10	20	30	40	50	60	70	80	90	100	125	150	200	250	300	350	400
1 Slots																	
Hor.Sp	0.010	0.040	0.090	0.160	0.250	0.360	0.490	0.640	0.810	1.000							
Throw	4-8	10-15	15-19	18-21	20-24	22-26	23-28	25-30	27-32	28-33							
NC	<20	<20	25	34	41	47	>50	>50	>50	>50							
Vert.Sp	0.007	0.029	0.066	0.117	0.183	0.263	0.358	0.468	0.592	0.731							
Throw	2-4	8.15	16.22	21-27	25-29	27-32	29-35	31-37	33-39	35-42							
NC	<20	<20	<20	<20	21	27	32	36	40	43							
2 Slots																	
Hor.Sp		0.010	0.023	0.040	0.063	0.090	0.122	0.160	0.203	0.250	0.391						
Throw		6-11	11-15	14-20	18-24	22-26	23-28	25-30	27-32	28-33	31-37						
NC		<20	<20	<20	22	28	33	37	41	44	50						
Vert.Sp		0.007	0.016	0.029	0.046	0.066	0.089	0.117	0.148	0.183	0.285						
Throw		3-6	6-12	11-21	17-25	22-30	26-35	29-37	33-39	35-42	39-46						
NC		<20	<20	<20	<20	<20	<20	<20	21	24	31						
3 Slots																	
Hor.Sp			0.010	0.018	0.028	0.040	0.054	0.071	0.090	0.111	0.174	0.250					
Throw			7-13	12-17	15-21	18-24	21-28	23-30	26-32	28-33	31-37	34-41					
NC			<20	<20	<20	<20	22	26	30	33	40	46					
Vert.Sp			0.007	0.013	0.020	0.029	0.040	0.052	0.066	0.081	0.127	0.183					
Throw			3-7	6-12	9-18	13-24	18-29	24-33	27-37	30-41	37-46	43-51					
NC			<20	<20	<20	<20	<20	<20	<20	<20	26						
4 Slots																	
Hor.Sp				0.010	0.016	0.023	0.031	0.040	0.051	0.063	0.098	0.141	0.250				
Throw				8-15	13-18	15-21	18-25	20-28	23-32	25-33	32-37	34-41	40-47				
NC				<20	<20	<20	<20	<20	22	25	32	38	47				
Vert.Sp				0.007	0.011	0.016	0.022	0.029	0.037	0.046	0.071	0.103	0.183				
Throw				4-8	6-12	9-17	12-22	16-29	20-32	24-36	32-44	39-51	50-58				
NC				<20	<20	<20	<20	<20	<20	<20	<20	<20	27				
5 Slots																	
Hor.Sp					0.010	0.014	0.020	0.026	0.032	0.040	0.063	0.090	0.160	0.250			
Throw					9-16	13-19	16-22	18-25	20-28	23-31	28-37	34-41	40-47	44-51			
NC					<20	<20	<20	<20	<20	<20	26	32	41	48			
Vert.Sp					0.007	0.011	0.014	0.019	0.024	0.029	0.046	0.066	0.117	0.183			
Throw					4-9	6-12	9-16	11-21	14-26	17-32	27-40	35-47	46-58	56-65			
NC					<20	<20	<20	<20	<20	<20	<20	<20	21	28			
6 Slots																	
Hor.Sp						0.010	0.014	0.018	0.023	0.028	0.043	0.063	0.111	0.174	0.250		
Throw						10-18	14-20	17-23	19-26	21-29	29-36	31-41	40-47	44-52	48-57		
NC						<20	<20	<20	<20	<20	21	27	36	43	49		
Vert.Sp						0.007	0.010	0.014	0.016	0.020	0.032	0.046	0.081	0.127	0.183		
Throw						5-9	6-13	8-16	11-20	13-25	21-26	30-43	42-58	53-65	61-71		
NC						<20	<20	<20	<20	<20	<20	<20	<20	23	29		
7 Slots																	
Hor.Sp							0.010	0.013	0.017	0.020	0.032	0.046	0.082	0.128	0.184	0.250	
Throw							11-19	14-22	17-24	19-27	24-33	29-39	38-47	44-52	48-57	52-61	
NC							<20	<20	<20	<20	<20	23	32	39	45	50	
Vert.Sp							0.007	0.010	0.012	0.015	0.023	0.034	0.060	0.093	0.134	0.183	
Throw							5-10	7-13	9-16	11-20	16-30	24-40	39-53	49-65	59-71	66-77	
NC							<20	<20	<20	<20	<20	<20	<20	<20	25	30	
8 Slots																	
Hor.Sp								0.010	0.013	0.016	0.024	0.035	0.063	0.098	0.141	0.191	0.250
Throw								12-20	15-23	18-25	22-31	27-37	36-47	45-52	48-57	52-61	56-66
NC								<20	<20	<20	<20	<20	28	35	41	46	50
Vert.Sp								0.007	0.009	0.011	0.018	0.026	0.046	0.071	0.103	0.140	0.183
Throw								6-11	7-13	9-16	13-25	19-35	34-50	46-62	55-71	64-77	70-82
NC								<20	<20	<20	<20	<20	<20	<20	21	26	30

Notes:

- NC data is based on a 10 db room attenuation.
- Throw data is based on Isothermal air at 100 and 50 fpm terminal velocity.
- Horizontal throw is 1 way patten.
- Static pressure (SP) is in inch W.G

✿ 25mm WIDTH RETURN AIR LINEAR DIFFUSER SERIES RLPS & LFS

No. of Slots	Negative Static Pressure	0.030	0.045	0.055	0.065	0.075	0.090	0.105	0.125	0.150	0.175	0.200
1	Cfm/Ft	37	45	50	54	58	64	69	75	82	89	98
	NC	<20	<20	20	22	24	27	30	33	35	37	39
2	Cfm/Ft	72	88	97	105	113	124	134	146	160	173	185
	NC	<20	<20	22	24	27	30	33	36	39	42	45
3	Cfm/Ft	99	121	134	145	156	171	185	201	221	238	255
	NC	<20	20	22	24	26	28	31	35	39	42	45
4	Cfm/Ft	131	161	178	193	208	228	246	268	294	317	339
	NC	<20	21	23	25	27	30	32	35	39	43	47
5	Cfm/Ft	164	201	222	242	260	285	307	335	367	397	424
	NC	<20	22	24	27	28	30	32	35	39	43	47
6	Cfm/Ft	199	243	269	293	314	344	372	406	444	480	513
	NC	<20	23	25	27	29	32	35	39	42	45	48
7	Cfm/Ft	215	263	291	316	340	372	42	439	481	519	555
	NC	<20	23	25	27	29	31	33	36	40	44	48
8	Cfm/Ft	234	286	316	344	369	405	437	477	522	564	603
	NC	<20	24	26	28	30	32	35	39	43	47	50

Notes:

- NC data is based on a 10 db room attenuation.
- Sp: Negative Static Pressure is in inch W.G
- For Model 3810 & 3910 blades are in fully open position.