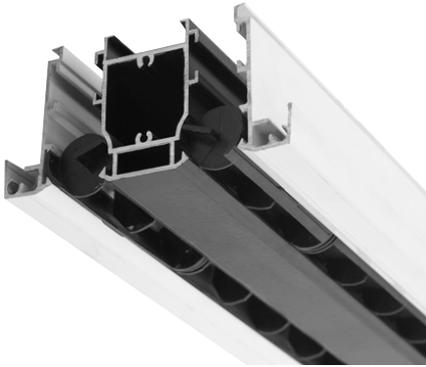


SUPPLY LINEAR SLOT DIFFUSER

KVSLS



APPLICATION

KVSLS series supply & return linear slot diffuser offer a high performance in a VAV outlet with pattern control and complete blank-off for true design flexibility.

Designed for highly efficient air distribution due to the pattern controller which is adjustable for each 150mm.

FEATURED STANDARD CONSTRUCTION

Fully adjustable "Air Distribution Control", the linear slot diffuser model: KVSLS is available with 1 to 4 slots, it is one piece extrusion so there are no visible joints. The direction of air discharge can be adapted to the required room conditions. The control blades are set to customers' requirements as blades are equipped with grooves that grip to the borders and allow easy changes of air direction subsequently. The deflector is designed for fully adjustable air pattern from vertical throw to fully horizontal.

• FINISHING:

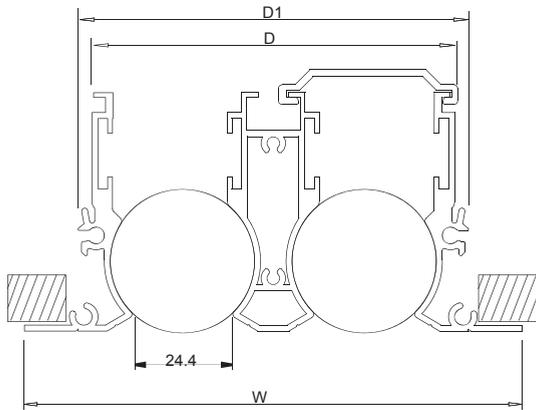
- Standard finish is natural anodize.
- A variety of Ral Colors are available upon request.
- Deflectors colors are white or black.

OPTIONS

- Available with factory mounted plenum box 22Ga galvanized thick with or without internal lining.
- Available with multiple types of frames:
 - N:** For normal exposed flanges
 - S:** For drop exposed flanges
 - SN:** For offset ceiling mounting
 - X:** For special partition that can accommodate with wall partition in offices areas.

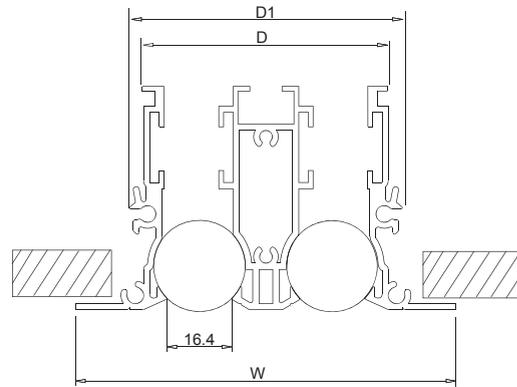
MODEL: KVSLS 3800 & 3900

DIMENSIONAL DATA



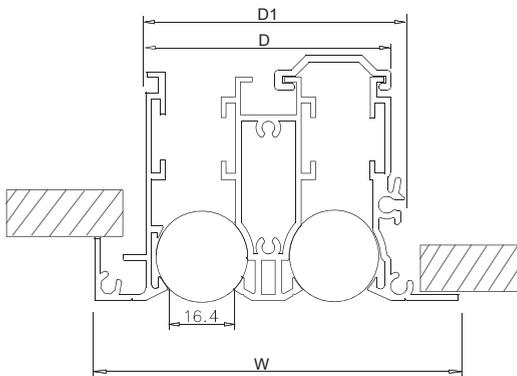
KVSL3900 FRAME -N-

No. of SLOTS	D mm	D1 mm	W mm
1	36	48	78
2	83	95	125
3	130	142	172
4	177	189	219



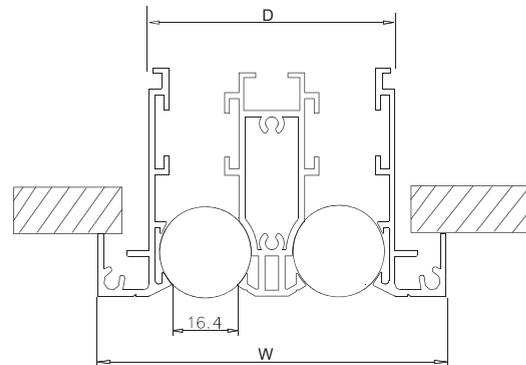
KVSL3800 FRAME -N-

No. of SLOTS	D mm	D1 mm	W mm
1	27	35	62
2	59	67	94
3	91	100	126
4	124	132	159



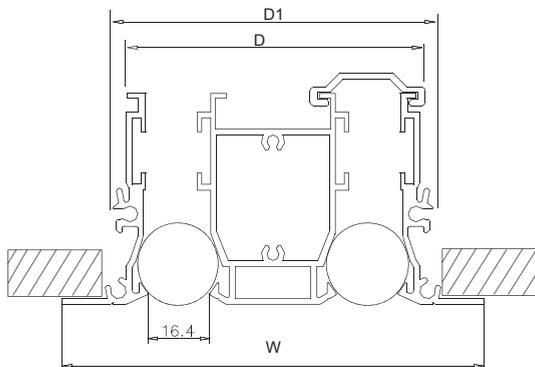
KVSL3800 FRAME -SN-

No. of SLOTS	D mm	D1 mm	W mm
1	27	31	59
2	59	63	91
3	91	95	123
4	124	128	156



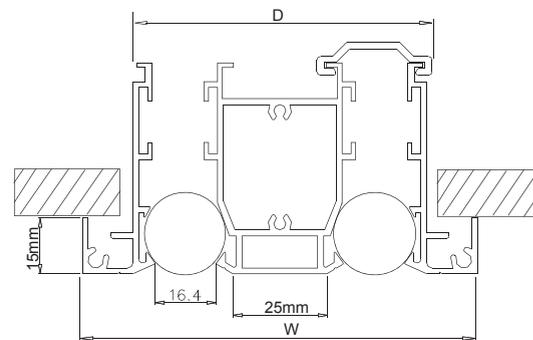
KVSL3800 FRAME -SS-

No. of SLOTS	D mm	D1 mm	W mm
1	24	-	53
2	58	-	87
3	92	-	121
4	126	-	155



KVSL3800 FRAME -NXN-

No. of SLOTS	D mm	D1 mm	W mm
2	82	90 --	112

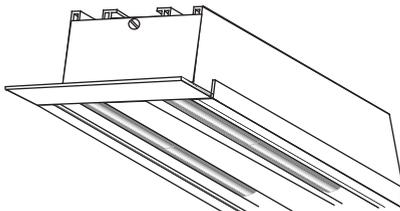


KVSL3800 FRAME -SXS-

No. of SLOTS	D mm	D1 mm	W mm
2	79	--	107

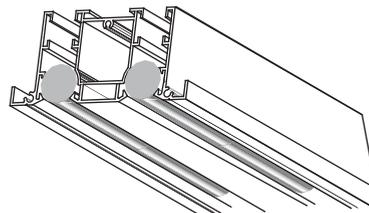
END CONFIGURATIONS

Type E
Angle End Cap



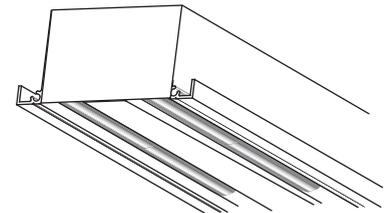
Face Overall

Type C
Open End



Face Overall

Type F
Flush End Cap



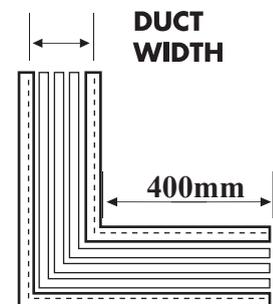
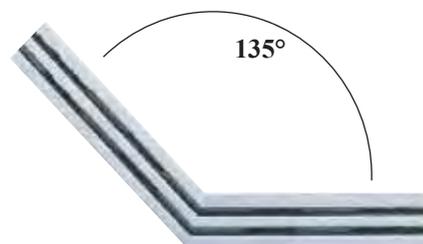
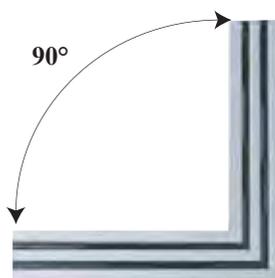
Face Overall

End plate for Type E and Type F are removable for field end trim.

MITERED CORNERS

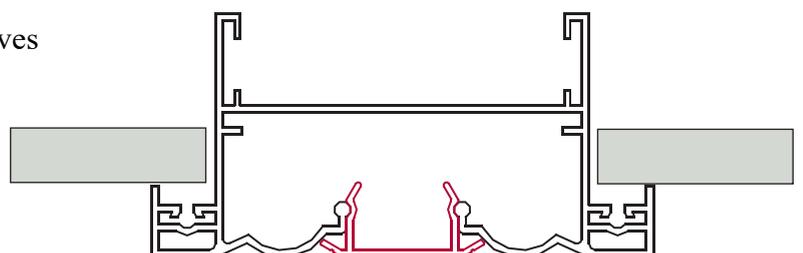
Factory assembled mitered corner sections are available with 90° angle or any special angle. Mitered corners are provided with standard length of 40cm external dimension, other lengths are provided upon request.

Factory assembled mitered corner reduces field installation time and assures precise cutting and proper fit.



FALSE CEILING FRAME

Factory supplied extension for false ceiling frame with the same shape & size as KVSLs3800 frame type SXS, which gives uniformity for the appearance.





MODEL KVSLs - 3800

LINEAR SLOT DIFFUSERS PERFORMANCE DATA

1 SLOT	Area factor per ft: 0.021 Vertical - 0.016 Angular							
AIRFLOW Cfm/Ft	10	15	20	25	30	35	40	45
VERTICAL T.P	0.016	0.036	0.064	0.10	0.144	0.196	0.256	0.324
NOISE CRITIRIA NC	<15	<15	18	25	31	37	42	46
VERTICAL THROW, ft	4 - 2	6 - 2	9 - 3	12 - 4	15 - 5	19 - 7	22 - 8	24 - 9
ANGULAR T.P	0.026	0.058	0.102	0.16	0.23	0.314	0.41	0.518
NOISE CRITIRIA NC	<15	<15	19	26	32	38	43	47
ANGULAR THROW, ft	6 - 2	9 - 3	14 - 4	22 - 6	30 - 8	36 - 10	42 - 11	48 - 13

2 SLOTS	Area factor per ft: 0.043 Vertical - 0.032 Angular							
AIRFLOW Cfm/Ft	15	20	26	32	39	46	54	62
VERTICAL T.P	0.023	0.04	0.068	0.102	0.152	0.212	0.292	0.384
NOISE CRITIRIA NC	<15	<15	<15	18	21	26	31	37
VERTICAL THROW, ft	4 - 2	5 - 2	8 - 3	11 - 4	14 - 5	16 - 6	19 - 7	22 - 8
ANGULAR T.P	0.035	0.06	0.102	0.153	0.228	0.318	0.438	0.576
NOISE CRITIRIA NC	<15	<15	<15	20	23	28	33	39
ANGULAR THROW, ft	5 - 2	7 - 2	13 - 4	19 - 6	26 - 7	31 - 8	36 - 9	41 - 11

3 SLOTS	Area factor per ft: 0.056 Vertical - 0.047 Angular							
AIRFLOW Cfm/Ft	30	36	42	48	55	62	68	75
VERTICAL T.P	0.028	0.04	0.054	0.071	0.093	0.119	0.143	0.174
NOISE CRITIRIA NC	<15	<15	<15	20	24	27	30	32
VERTICAL THROW, ft	5 - 2	7 - 2	9 - 3	12 - 4	16 - 6	18 - 7	21 - 8	24 - 9
ANGULAR T.P	0.039	0.056	0.076	0.099	0.13	0.167	0.20	0.244
NOISE CRITIRIA NC	<15	<15	15	21	25	28	31	33
ANGULAR THROW, ft	10 - 3	13 - 4	18 - 5	26 - 7	34 - 8	42 - 9	48 - 11	53 - 12

4 SLOTS	Area factor per ft: 0.068 Vertical - 0.056 Angular							
AIRFLOW Cfm/Ft	40	50	60	70	80	90	100	110
VERTICAL T.P	0.046	0.072	0.104	0.141	0.184	0.233	0.288	0.348
NOISE CRITIRIA NC	<15	17	23	28	31	35	37	40
VERTICAL THROW, ft	6 - 2	8 - 4	11 - 5	14 - 6	18 - 7	21 - 9	24 - 11	27 - 13
ANGULAR T.P	0.055	0.086	0.125	0.169	0.221	0.28	0.346	0.418
NOISE CRITIRIA NC	<15	18	24	29	32	36	38	41
ANGULAR THROW, ft	14 - 4	22 - 6	32 - 8	39 - 12	44 - 15	47 - 17	51 - 19	55 - 21

NOTES:

- 1- Performance Data is Based on ASHREA 70-91.
- 2- AIRFLOW: based on CFM per Linear Feet of Grille
- 3- static pressure (SP): Inches of Water Gauge
- 5- Noise Criteria: NC Level is based on room attenuaion of 10db (sound power level Re: 10-12Watts)
- 6- Throw: Projection distance in FEET from diffuser discharge at which the maximum velocity has been reduced to specified terminal velocity (Vt). Data show are for 50 &100 Terminal velocity (fpm)

MODEL KVSLS 3900

PERFORMANCE DATA

1 SLOT	Area factor per ft : 0.031 Vertical - 0.02 Angular							
AIRFLOW Cfm/Ft	15	20	25	33	40	48	56	62
VERTICAL T.P	0.016	0.029	0.046	0.08	0.117	0.169	0.23	0.282
NOISE CRITIRIA NC	<15	<15	17	24	28	32	37	42
VERTICAL THROW, ft	5 - 3	7 - 3	10 - 4	13 - 5	16 - 6	19 - 7	21 - 8	23 - 10
ANGULAR T.P	0.028	0.05	0.078	0.136	0.20	0.287	0.392	0.48
NOISE CRITIRIA NC	<15	15	23	30	34	38	43	48
ANGULAR THROW, ft	7 - 5	9 - 6	12 - 8	16 - 10	19 - 12	22 - 14	24 - 16	26 - 18

2 SLOTS	Area factor per ft : 0.06 Vertical - 0.04 Angular							
AIRFLOW Cfm/Ft	25	32	40	48	56	62	68	75
VERTICAL T.P	0.022	0.036	0.056	0.081	0.11	0.135	0.163	0.198
NOISE CRITIRIA NC	<15	<15	<15	20	25	29	32	35
VERTICAL THROW, ft	5 - 2	7 -	9 - 3	10 - 4	11 - 4	12 - 5	14 - 5	15 - 6
ANGULAR T.P	0.033	0.054	0.084	0.122	0.165	0.203	0.245	0.297
NOISE CRITIRIA NC	<15	<15	19	25	30	34	37	40
ANGULAR THROW, ft	7 - 5	9 - 6	12 - 7	14 - 8	16 - 9	18 - 11	21 - 12	22 - 13

3 SLOTS	Area factor per ft : 0.091 Vertical - 0.06 Angular							
AIRFLOW Cfm/Ft	35	44	53	62	71	80	89	97
VERTICAL T.P	0.023	0.036	0.053	0.072	0.095	0.12	0.149	0.177
NOISE CRITIRIA NC	<15	<15	15	20	25	28	32	36
VERTICAL THROW, ft	4 - 1	5 - 2	6 - 3	8 - 3	10 - 4	12 - 5	14 - 5	16 - 6
ANGULAR T.P	0.035	0.05	0.079	0.109	0.142	0.18	0.224	0.265
NOISE CRITIRIA NC	<15	<15	20	26	30	33	37	41
ANGULAR THROW, ft	6 - 3	8 - 5	10 - 6	12 - 7	14 - 8	16 - 9	18 - 10	20 - 12

Notes:

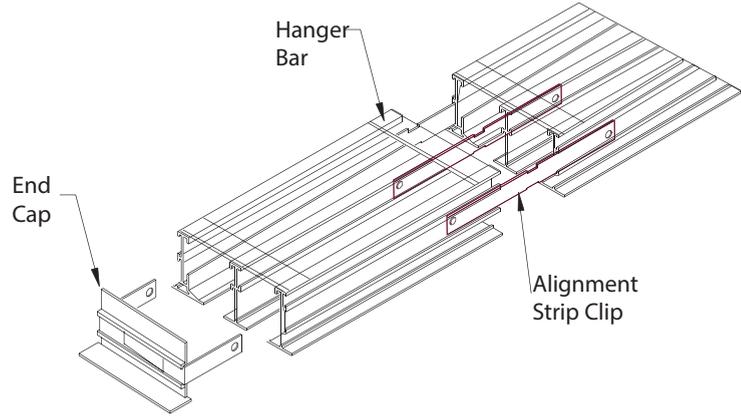
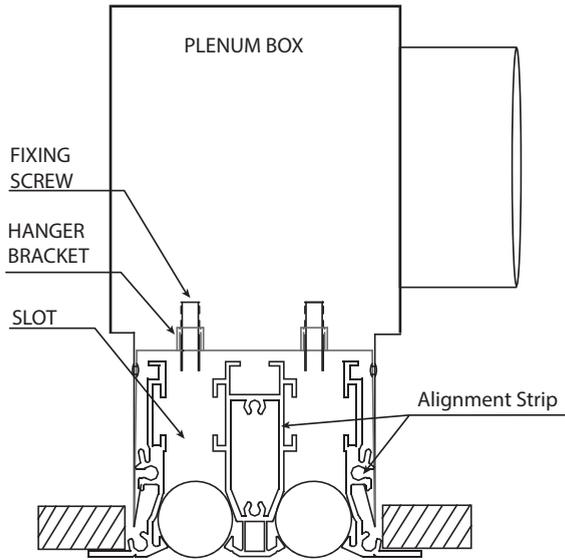
Performance data is obtained from tests conducted in accordance with ASHREA Standard 70-1991

T.P. Total Pressure is in Inch of Water, Air volume is in CFM.

NC values are determined by subtracting 10db from the power level for room absorption.

Throw data is for terminal velocity 50 & 100 fpm using Isothermal air.

INSTALLATION INSTRUCTIONS



End Cap and Alignment Strip Installation

ORDERING INFORMATION

MODEL	LENGTH	END CONFIGURATION	ACCESSORIES	FIXING METHODS	FINISHES
--- - KVLSL 380	2 - 40"	N - E	FC	MB	R9001
---: Standard C: Corner KVLSL 380: 1/2" spacing, With Deflector KVLSL 390: 1" spacing, With Deflector	Number of Slots Slot length (in inch or in mm)	E: Angle End Cap C: Open End F: Flush End Cap	-- : Standard EC: Straightener core (Equalizing grid) BO: Metal Blank-off LS: Light Shield	---: Standard MB: Mounting Bracket P: With Plenum Box	N: Anodize - STD- S: STD-Ral 9010 R "num": Other Ral color
	N: Normal (Standard) SN: One side Showing Frame SS: Two sides Showing Frame NXN: Middle Partition Extended SXS: Two sides Showing Frame with Middle Partition Extended				

Ex: Required 1200mm supply 2 slots with end cap with Normal frame & mounting bracket painted Ral 9016 order form will be:

KVLSL-3802 - 1200mm - N - E - MB - R 9016