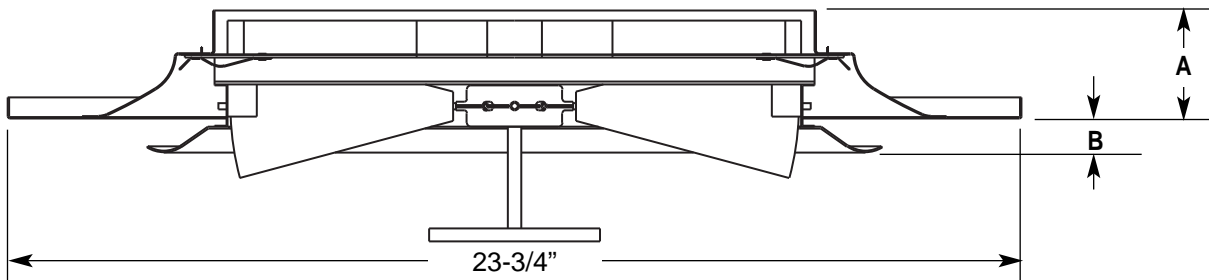


Dim	Description	Nominal Neck Size						
		10	12	14	16	18	20	24
A	Neck I.D.	10-1/16	12-1/16	14-1/16	16-1/16	18-1/16	20-1/16	24-1/16
B	Neck O.D.	10-1/8	12-1/8	14-1/8	16-1/8	18-1/8	20-1/8	24-1/8
C	Face O.D.	19-13/16	22-1/16	24-1/16	28-13/16	32-1/16	33-9/16	39-5/16
D	Form Projection	1-3/8	1-3/8	1-1/2	2-1/8	2-1/8	2-1/4	2-5/8
E	Overall Projection	2-1/16	2-3/16	2-5/16	2-15/32	2-19/32	2-23/32	2-31/32
F	Rec. Ceiling Opening	11-1/4	13-1/4	15-1/4	17-1/4	19-1/4	21-1/4	25-1/4

Installation and Operation Data

1. The neck is oversized to fit over the duct.
2. The recommended ceiling opening is somewhat larger to allow the attachment locking clips to operate without interference.
3. Adjustment from Horizontal to Vertical Discharge. This is accomplished by rotating the operator handle approximately 45°. This can be done by grasping it with your hand or via a pole with a slot cut in the end.
4. Installation and removal of the core is done by disengaging the locking clip and rotating the struts in the core into or out of the slots in the ceiling form.
5. The core can be permanently installed in the form by running sheet metal screws through the struts where they attach to the form.



Model SSDB	10"	12"	14"
Upward Projection (A)	2-3/8"	2-3/8"	2-1/2"
Downward Projection (B)	11/16"	13/16"	13/16"

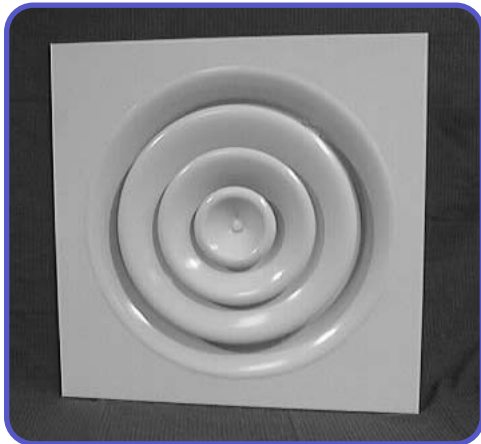
Duct Velocity (fpm)	400	500	600	700	800	900	1000	1200	1400	1600
Velocity Pressure (w.g.)	.010	.016	.022	.031	.040	.051	.062	.090	0.122	0.160
10" Flow (CFM)	218	273	327	382	436	491	545	654	764	873
Horiz. Ttl. Press. (w.g.)	0.116	0.178	0.257	0.349	0.458	0.578	0.713	1.035	1.445	1.884
Sound (NC/RC)	19/19N	26/26N	29/28N	32/31H	38/37H	44/43H	47/46H	50/49H	54/53H	56/55H
Radius of Diffusion (ft.)	3-4-9	4-5-11	4-7-13	5-8-14	6-9-15	7-10-16	7-12-17	9-13-18	10-14-20	11-15-22
Vert. Ttl. Press. (w.g.)	0.017	0.027	0.038	0.052	0.068	0.086	0.106	0.152	0.207	0.268
Sound (NC/RC)	14/--	14/10H	15/11H	15/13H	16/15H	20/19N	24/23N	31/30N	36/35N	38/37N
Vertical Projection (ft.)	10-14-17	12-15-19	13-17-22	14-18-24	15-20-26	16-21-28	17-22-30	19-24-33	20-26-36	22-28-40
12" Flow (CFM)	314	393	471	550	628	707	785	942	1100	1257
Horiz. Ttl. Press. (w.g.)	0.082	0.127	0.183	0.251	0.327	0.416	0.528	0.742	1.022	1.348
Sound (NC/RC)	20/20N	26/25N	30/29H	32/31H	39/39H	44/44H	48/47H	50/50H	54/54H	56/56H
Radius of Diffusion (ft.)	4-5-10	5-7-13	6-9-15	7-10-16	8-12-17	9-13-18	10-13-19	11-14-21	12-15-23	13-16-25
Vert. Ttl. Press. (w.g.)	0.014	0.022	0.031	0.042	0.055	0.069	0.086	0.123	0.167	0.217
Sound (NC/RC)	14/--	14/10H	15/12H	15/14H	16/16H	20/19N	24/23N	31/30N	36/35N	38/37N
Vertical Projection (ft.)	11-15-19	13-17-21	14-18-24	15-20-26	16-21-28	17-23-30	18-24-32	20-26-35	22-28-39	23-30-42
14" Flow (CFM)	428	535	641	748	855	962	1069	1283	1497	1710
Horiz. Ttl. Press. (w.g.)	0.085	0.132	0.191	0.261	0.342	0.434	0.533	0.775	1.062	1.396
Sound (NC/RC)	20/20N	27/26N	30/29H	33/32H	39/39H	46/46H	49/49H	51/51H	55/55H	57/57H
Radius of Diffusion (ft.)	5-7-12	6-8-14	7-10-16	8-12-17	9-13-18	10-14-20	11-15-21	12-16-23	13-17-25	14-18-27
Vert. Ttl. Press. (w.g.)	0.014	0.022	0.032	0.044	0.057	0.072	0.089	0.127	0.173	0.224
Sound (NC/RC)	15/10H	15/11H	15/12H	15/14H	16/16H	20/20H	24/24N	31/31N	36/35N	38/37N
Vertical Projection (ft.)	12-16-21	14-18-24	15-20-26	16-21-29	17-23-31	18-24-33	19-26-35	21-28-39	23-31-42	25-33-46
16" Flow (CFM)	559	698	838	977	1117	1257	1396	1676	1955	2234
Horiz. Ttl. Press. (w.g.)	0.089	0.137	0.199	0.272	0.358	0.453	0.558	0.809	1.102	1.445
Sound (NC/RC)	22/22N	28/28N	31/30N	33/32H	40/40H	47/47H	50/50H	52/52H	55/55H	57/57H
Radius of Diffusion (ft.)	5-8-13	6-10-16	8-11-18	9-13-19	10-14-21	11-15-22	12-16-23	14-17-25	15-10-28	16-20-30
Vert. Ttl. Press. (w.g.)	0.015	0.023	0.033	0.046	0.059	0.075	0.092	0.132	0.179	0.232
Sound (NC/RC)	15/11H	15/13H	16/14H	16/14H	17/17H	21/20N	24/24N	31/30N	36/35N	28/37N
Vertical Projection (ft.)	13-17-23	15-19-26	16-21-29	17-23-32	18-25-34	20-26-37	21-28-39	22-30-43	24-33-47	26-35-51
18" Flow (CFM)	707	884	1060	1237	1414	1590	1767	2121	2474	2827
Horiz. Ttl. Press. (w.g.)	0.093	0.145	0.210	0.287	0.377	0.476	0.586	0.852	1.161	1.524
Sound (NC/RC)	23/22N	28/28N	32/32N	34/33N	41/40H	48/48H	51/51H	53/53H	56/56H	58/58H
Radius of Diffusion (ft.)	6-9-15	8-11-18	9-13-19	11-15-21	12-16-23	14-17-24	15-18-25	16-19-28	17-20-30	18-22-32
Vert. Ttl. Press. (w.g.)	0.015	0.023	0.034	0.047	0.060	0.077	0.094	0.136	0.184	0.239
Sound (NC/RC)	16/11H	16/12H	16/14H	16/15H	17/17H	21/21N	24/24N	32/31N	36/36N	38/38N
Vertical Projection (ft.)	14-19-25	16-21-29	17-23-32	19-25-36	20-27-38	21-29-41	22-30-44	24-33-49	26-35-54	27-38-59
20" Flow (CFM)	873	1091	1309	1527	1745	1963	2182	2618	3054	3491
Horiz. Ttl. Press. (w.g.)	0.098	0.152	0.221	0.301	0.395	0.500	0.615	0.895	1.220	1.603
Sound (NC/RC)	24/23N	29/29N	33/32N	35/34N	41/41H	49/49H	52/52H	54/54H	57/57H	59/59H
Radius of Diffusion (ft.)	8-10-17	10-14-20	11-16-22	13-17-24	15-19-26	16-20-27	17-21-29	18-22-32	19-24-34	20-26-37
Vert. Ttl. Press. (w.g.)	0.015	0.024	0.035	0.048	0.062	0.079	0.097	0.140	0.190	0.246
Sound (NC/RC)	16/11H	16/12H	16/14H	16/16H	19/19H	22/22N	25/25N	32/31N	37/36N	39/38N
Vertical Projection (ft.)	15-21-28	17-23-34	19-25-36	20-27-39	22-29-43	23-31-46	24-33-49	27-36-55	29-39-60	31-42-66
24" Flow (CFM)	1257	1571	1885	2199	2513	2827	3142	3770	4398	5027
Horiz. Ttl. Press. (w.g.)	0.107	0.168	0.243	0.331	0.433	0.547	0.672	0.982	1.338	1.761
Sound (NC/RC)	26/23H	33/32H	36/34H	39/37H	43/41H	52/51H	55/55H	58/57N	60/59N	62/62N
Radius of Diffusion (ft.)	10-16-22	13-20-25	15-22-28	17-23-30	19-25-32	20-26-35	21-27-37	23-30-40	24-32-43	25-34-47
Vert. Ttl. Press. (w.g.)	0.016	0.026	0.037	0.050	0.066	0.083	0.103	0.148	0.202	0.261
Sound (NC/RC)	19/13H	19/14H	19/14H	19/19H	28/24H	30/26H	32/31H	34/34N	39/38N	42/41N
Vertical Projection (ft.)	19-26-36	21-29-41	23-32-46	25-35-50	27-37-54	29-39-59	30-41-62	33-45-70	36-49-78	38-52-84

Notes on Performance Data:

- Performance data is based on tests conducted according to ANSI/ASHRAE Standard 70-1991.
- Actual performance in the field may vary.
- Testing was conducted in isothermal conditions.
- Sound levels are based on a room absorption of 10db re 10⁻¹² watts.
- A "--" indicates an NC or RC level less than 10.

Units of Measure Used:

- The duct velocity is given in Feet per Minute (FPM).
- Velocity Pressure and Total Pressure are given in Inches of Water (w.g.).
- Radius of Diffusion and Vertical Projection values are given in feet for terminal velocities of 150, 100 and 50 FPM, respectively.
- Sound data is given in both NC (Noise Criteria) and RC (Room Criteria). NC is first with RC second, separated by a slash.



Application

Use with Models SSEA and SSDB to result in easier, lower cost, quicker and higher quality installation of round diffusers in suspended ceilings

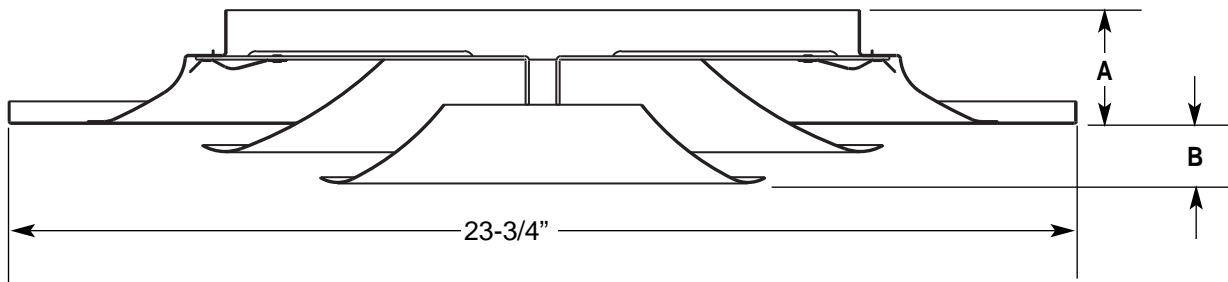
Features

- Diffuser sizes 14" and smaller can be set in a panel to fit 24" x 24" T-bar ceilings.
- This panel will work with 9/16", 15/16" or 1-1/2" flat face T-bar.
- Panels to fit other types and sizes of suspended ceilings are available on request.
- Panel construction is steel.

Installation Notes

- Note that the diffuser inlet is still oversized to fit the duct inside. This eliminates air leakage, but requires the use of hard duct connection to the diffuser.

Dimensional Data



Model SSEA	4"	5"	6"	8"	10"	12"	14"
Upward Projection (A)	1-15/16"	2-9/16"	2-3/16"	2-3/8"	2-3/8"	2-3/8"	2-1/2"
Downward Projection (B)	3/4"	3/4"	3/4"	1"	1/2"	7/8"	13/16"