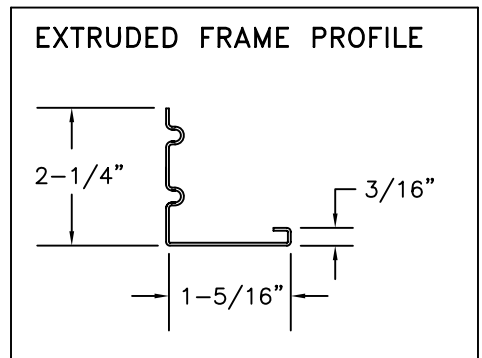
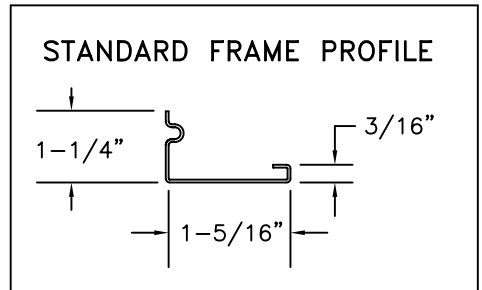


**CONSTRUCTION NOTES:**

- **Frame:** .030 thick, rollformed aluminum (.045 thick extruded aluminum for units with either width or height 30 inches or larger.) Frame is assembled using corner to assure hairline mitered corners.
- **Blades:** .030 thick rollformed aluminum. 1 way deflection. Adjustable curve blade design.
- **Vanes:** Deflection vanes are easily set without use of special tools.
- **Damper:** Opposed Blade Damper (DL) and Multi-Louver (ML) are easily adjusted through face.
- **Depth:** Narrow depth of Damper design allows Grill/Damper combination to be used in stackheads of minimum depth.
- **Gasket:** A sponge rubber gasket prevents streaking.
- **Optional:** Model PF Plaster Frames are available.
- **Finish:** White or satin aluminum enamel paint applied prior to fabrication to prevent paint peel or lift and to maximize corrosion resistance.
- **Sizes:** 4" x 4" min., 48" x 36" max.



NOTE: ALL DRAWINGS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

TITLE: MODEL CL1  
 CURVED BLADE LOUVERED FACE  
 1 WAY DEFLECTION  
 GRILLE OR REGISTER



DRN BY: CV	DATE: 1/28/00	SCALE: NTS	DRAWING NO. SG301-A
CKD BY: DJL	DATE: 2/15/00	REV: A0	

## CL1 Curved Blade

Neck Vel.	FPM	300	400	500	600	700	800	900	1000
Neck Size	Ps	.040	.040	.110	.160	.220	.290	.360	.440
8 x 4	CFM	55	73	91	109	127	145	163	181
	Throw	5-9	8-13	10-13	12-20	14-22	15-22	17-28	18-30
	NC	<20	23	30	34	39	42	46	49
10 x 4 6 x 6	CFM	63	84	105	126	147	168	189	210
	Throw	6-10	8-13	10-17	12-20	14-24	16-26	18-29	19-31
	NC	<20	24	30	35	40	43	47	50
12 x 4 8 x 6	CFM	86	114	143	172	201	230	259	288
	Throw	6-10	9-14	11-18	13-21	15-25	17-28	19-31	20-34
	NC	<20	25	31	37	41	44	47	51
16 x 4 8 x 8	CFM	117	156	195	234	273	312	351	390
	Throw	7-11	9-15	11-18	13-22	15-25	18-29	19-32	21-35
	NC	<20	25	32	37	42	45	48	52
18 x 4 12 x 6	CFM	132	176	220	264	308	352	396	440
	Throw	8-13	9-15	12-20	14-23	16-26	19-31	20-34	22-36
	NC	<20	26	32	37	42	46	49	52
18 x 6 14 x 8	CFM	211	280	351	421	491	561	631	701
	Throw	8-13	11-17	14-22	16-26	19-31	21-34	23-39	25-40
	NC	<20	27	34	39	44	48	52	55
20 x 4 16 x 6	CFM	148	197	246	295	344	392	441	490
	Throw	8-12	10-16	12-20	14-24	17-28	20-32	21-35	23-38
	NC	<20	27	33	38	43	47	49	53
20 x 6	CFM	228	304	380	456	532	608	684	760
	Throw	9-14	11-18	14-22	16-27	19-31	21-35	24-39	26-43
	NC	<20	28	34	39	44	48	52	55
20 x 8 14 x 12 16 x 10	CFM	324	432	540	648	756	864	972	1080
	Throw	9-15	12-20	14-24	17-28	20-33	22-37	25-42	29-47
	NC	21	29	35	41	45	49	53	57
24 x 4 12 x 8	CFM	188	251	314	377	440	503	566	630
	Throw	8-13	10-17	13-21	15-25	18-29	20-33	22-36	24-49
	NC	<20	27	33	39	44	47	51	54
24 x 6 12 x 12	CFM	276	368	460	552	644	736	828	920
	Throw	9-15	12-19	14-24	17-28	20-33	22-36	25-41	27-44
	NC	<20	28	35	41	45	49	52	57
30 x 6 14 x 14	CFM	381	508	635	762	889	1016	1143	1270
	Throw	9-15	12-20	15-25	18-30	21-34	23-38	27-44	30-50
	NC	21	29	36	42	46	51	54	58
30 x 8 18 x 4	CFM	501	668	835	1002	1169	1336	1503	1670
	Throw	10-16	13-22	16-27	19-31	22-36	25-42	28-47	33-55
	NC	22	30	37	42	47	51	55	59
36 x 6 18 x 12	CFM	435	580	725	870	1015	1160	1305	1450
	Throw	10-16	13-21	16-26	18-30	21-35	24-40	28-45	31-52
	NC	22	30	37	42	47	51	55	59
36 x 8 24 x 12	CFM	564	752	940	1128	1316	1504	1692	1880
	Throw	10-17	14-22	16-27	20-32	22-37	26-43	29-48	35-57
	NC	22	31	37	43	48	52	57	60
36 x 10 30 x 12	CFM	711	948	1185	1422	1659	1896	2133	
	Throw	11-18	14-23	17-29	21-34	24-39	28-45	32-53	
	NC	22	32	39	45	49	53	58	
48 x 12 24 x 24	CFM	1152	1536	1920	2304	2688	3072		
	Throw	12-20	16-26	20-32	23-38	28-46	33-54		
	NC	25	33	41	46	51	57		
48 x 24	CFM	2181	2908	3635	4362	5089	5816		
	Throw	14-23	18-30	23-38	28-47	34-57	41-68		
	NC	27	36	44	49	55	60		

**Notes:**

1. Performance data based on Model CL1DL, blade pattern at 15°.
2. Throw is based on terminal velocities of 100 FPM and 50 FPM respectively.
3. When unit is mounted away from ceiling (i.e. exposed duct), throw is reduced by 15-20% and drop is increased by 5-15%.