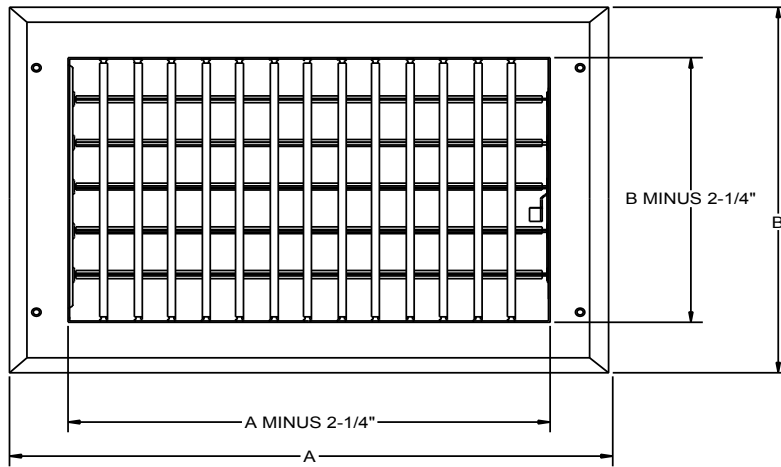
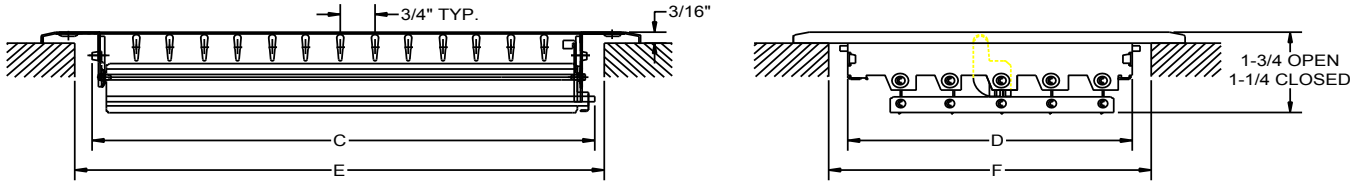




MFASCA SERIES ALUMINUM ADJUSTABLE SIDEWALL CEILING REGISTER SPECIFICATION CHART



- **Aluminum Construction**
- **Adjustable Front Fins**
- **Multi-Shutter Damper**
- **Finish: White**

Aluminum S/C Adjustable Register Dimensional Chart

Size (ExF)	Dimensions (See Detail Sketches)				Size (ExF)	Dimensions (See Detail Sketches)			
	A	B	C	D		A	B	C	D
6x6	7-3/4	7-3/4	5-3/4	5-3/4	12x4	13-3/4	5-3/4	11-3/4	3-3/4
8x4	9-3/4	5-3/4	7-3/4	3-3/4	12x6	13-3/4	7-3/4	11-3/4	5-3/4
8x6	9-3/4	7-3/4	7-3/4	5-3/4	12x8	13-3/4	9-3/4	11-3/4	7-3/4
8x8	9-3/4	9-3/4	7-3/4	7-3/4	12x12	13-3/4	13-3/4	11-3/4	11-3/4
10x4	11-3/4	5-3/4	9-3/4	3-3/4	14x4	15-3/4	5-3/4	13-3/4	3-3/4
10x6	11-3/4	7-3/4	9-3/4	5-3/4	14x6	15-3/4	7-3/4	13-3/4	5-3/4
10x8	11-3/4	9-3/4	9-3/4	7-3/4	14x8	15-3/4	9-3/4	13-3/4	7-3/4
10x10	11-3/4	11-3/4	9-3/4	9-3/4	16x8	17-3/4	9-3/4	15-3/4	7-3/4

Deflection A

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092	0.108	0.124	0.164	0.204	0.252
6x6	cfm	70	90	105	125	140	160	175	195	210	230	250	285	320	355
Ak .19	Throw	8.0	10.0	12.0	13.0	15.0	17.0	19.0	20.0	22.0	24.0	26.0	29.0	33.0	37.0
8x4	cfm	65	80	95	110	125	140	160	175	190	205	220	255	285	315
Ak .17	Throw	7.0	9.0	10.0	13.0	14.0	16.0	17.0	19.0	20.0	23.0	24.0	26.0	30.0	34.0
8x6	cfm	95	120	145	170	195	220	240	265	290	315	340	385	435	485
Ak .26	Throw	9.0	10.0	13.0	14.0	17.0	19.0	20.0	23.0	26.0	27.0	28.0	34.0	37.0	42.0
8x8	cfm	135	170	205	240	270	305	340	375	410	440	475	545	610	680
Ak .35	Throw	10.0	12.0	15.0	18.0	20.0	23.0	25.0	28.0	30.0	33.0	35.0	40.0	45.0	50.0
10x4	cfm	80	100	120	140	160	180	200	220	240	260	280	320	360	400
Ak .21	Throw	8.0	10.0	13.0	14.0	15.0	18.0	20.0	21.0	22.0	25.0	27.0	29.0	34.0	39.0
10x6	cfm	125	155	185	215	250	280	310	340	370	405	435	495	560	620
Ak .33	Throw	10.0	13.0	14.0	17.0	20.0	22.0	24.0	27.0	28.0	31.0	35.0	38.0	43.0	47.0
10x8	cfm	165	210	250	295	335	375	420	460	500	545	585	670	750	835
Ak .43	Throw	12.0	13.0	17.0	20.0	23.0	24.0	28.0	31.0	34.0	36.0	39.0	43.0	49.0	55.0
10x10	cfm	210	265	320	370	425	475	530	585	635	690	740	850	955	1060
Ak .54	Throw	13.0	15.0	19.0	22.0	23.0	27.0	31.0	33.0	37.0	39.0	42.0	50.0	56.0	62.0
12x4	cfm	95	120	145	170	195	215	240	265	290	315	335	385	435	480
Ak .26	Throw	8.0	11.0	12.0	15.0	17.0	19.0	22.0	23.0	25.0	27.0	30.0	34.0	38.0	43.0
12x6	cfm	150	190	230	265	305	340	380	420	455	495	530	610	685	760
Ak .38	Throw	11.0	14.0	15.0	18.0	22.0	23.0	27.0	29.0	31.0	34.0	37.0	41.0	48.0	52.0
12x8	cfm	205	255	310	360	410	465	515	565	615	670	720	820	925	1030
Ak .53	Throw	12.0	15.0	18.0	22.0	23.0	26.0	29.0	32.0	35.0	37.0	40.0	46.0	51.0	58.0
12x12	cfm	310	390	465	545	620	700	780	855	935	1010	1090	1245	1400	1555
Ak .79	Throw	17.0	19.0	23.0	27.0	30.0	34.0	38.0	41.0	45.0	49.0	52.0	60.0	67.0	75.0
14x4	cfm	115	140	170	200	225	255	285	310	340	370	395	455	510	565
Ak .30	Throw	10.0	12.0	13.0	16.0	19.0	22.0	23.0	25.0	27.0	30.0	32.0	36.0	41.0	46.0
14x6	cfm	180	225	270	315	360	400	445	490	535	580	625	715	805	895
Ak .46	Throw	13.0	15.0	17.0	20.0	23.0	26.0	29.0	31.0	35.0	37.0	40.0	45.0	51.0	55.0
14x8	cfm	235	295	355	415	475	530	590	650	710	770	825	945	1065	1180
Ak .60	Throw	13.0	16.0	20.0	22.0	25.0	30.0	33.0	36.0	40.0	42.0	46.0	53.0	58.0	66.0
16x8	cfm	285	355	425	500	570	640	710	780	850	925	995	1135	1280	1420
Ak .71	Throw	15.0	17.0	22.0	24.0	27.0	31.0	35.0	38.0	42.0	46.0	50.0	59.0	68.0	74.0

Terminal Velocity of 75 fpm, Pressure Loss (in H₂O) & Throw (ft)

*See page 4 for graph.

Deflection C

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092	0.108	0.124	0.164	0.204	0.252
6x6	cfm	65	80	95	110	125	145	160	175	190	205	225	255	285	320
Ak .17	Throw	6.0	7.0	8.0	10.0	11.0	13.0	14.0	16.0	17.0	18.0	20.0	23.0	26.0	30.0
8x4	cfm	55	70	85	100	115	125	140	155	170	185	195	225	255	280
Ak .16	Throw	5.0	7.0	8.0	9.0	10.0	12.0	14.0	15.0	16.0	18.0	19.0	21.0	24.0	26.0
8x6	cfm	85	110	130	150	175	195	215	240	260	280	305	345	390	435
Ak .23	Throw	7.0	9.0	10.0	12.0	13.0	15.0	17.0	19.0	20.0	21.0	23.0	26.0	29.0	33.0
8x8	cfm	135	165	200	235	265	300	335	365	400	435	470	535	600	670
Ak .33	Throw	8.0	10.0	12.0	14.0	15.0	17.0	20.0	21.0	23.0	25.0	27.0	31.0	35.0	39.0
10x4	cfm	70	90	105	125	145	160	180	195	215	235	250	285	320	360
Ak .19	Throw	6.0	7.0	9.0	10.0	12.0	14.0	15.0	16.0	19.0	20.0	21.0	24.0	27.0	30.0
10x6	cfm	115	140	170	200	225	255	285	310	340	370	395	455	510	565
Ak .30	Throw	8.0	10.0	12.0	13.0	15.0	17.0	19.0	20.0	23.0	24.0	26.0	30.0	34.0	37.0
10x8	cfm	150	190	225	265	300	340	380	415	455	490	530	605	680	755
Ak .39	Throw	9.0	12.0	13.0	16.0	18.0	20.0	22.0	23.0	26.0	28.0	30.0	35.0	39.0	42.0
10x10	cfm	190	240	285	335	380	430	475	525	570	620	665	760	855	950
Ak .48	Throw	10.0	12.0	15.0	16.0	20.0	22.0	24.0	28.0	30.0	32.0	34.0	40.0	44.0	49.0
12x4	cfm	85	110	130	150	175	195	215	240	260	280	305	345	390	435
Ak .23	Throw	7.0	9.0	10.0	12.0	14.0	15.0	18.0	19.0	20.0	21.0	23.0	26.0	29.0	33.0
12x6	cfm	135	170	205	240	275	310	340	375	410	445	480	545	615	685
Ak .35	Throw	9.0	10.0	13.0	14.0	16.0	19.0	21.0	22.0	25.0	27.0	29.0	32.0	37.0	42.0
12x8	cfm	185	230	280	325	370	415	465	510	555	600	650	740	835	925
Ak .48	Throw	10.0	12.0	13.0	16.0	19.0	21.0	23.0	25.0	27.0	29.0	33.0	36.0	40.0	45.0
12x12	cfm	280	350	420	490	560	630	700	770	840	915	980	1125	1265	1405
Ak .72	Throw	12.0	15.0	18.0	21.0	24.0	26.0	29.0	32.0	35.0	38.0	41.0	46.0	52.0	58.0
14x4	cfm	100	130	155	180	205	230	255	280	305	330	355	410	460	510
Ak .27	Throw	8.0	9.0	11.0	13.0	15.0	17.0	18.0	20.0	22.0	23.0	25.0	29.0	32.0	35.0
14x6	cfm	165	205	250	290	330	375	415	455	495	540	580	660	745	830
Ak .43	Throw	10.0	12.0	14.0	17.0	19.0	21.0	23.0	25.0	28.0	29.0	32.0	37.0	41.0	45.0
14x8	cfm	215	265	320	370	425	480	530	585	640	690	745	850	960	1065
Ak .55	Throw	10.0	13.0	15.0	18.0	21.0	23.0	26.0	28.0	33.0	34.0	36.0	41.0	46.0	51.0
16x8	cfm	255	320	385	445	510	575	640	705	765	830	895	1020	1150	1280
Ak .639	Throw	11.0	12.0	15.0	17.0	19.0	22.0	25.0	27.0	29.0	32.0	35.0	42.0	48.0	55.0

Terminal Velocity of 75 fpm, Pressure Loss (in H₂O) & Throw (ft)

*See page 4 for graph.

Deflection E

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092	0.108	0.124	0.164	0.204	0.252
6x6	cfm	60	70	85	100	115	130	145	160	175	185	200	230	260	290
Ak .15	Throw	3.0	4.0	5.0	5.0	6.0	7.0	8.0	8.0	9.0	10.0	10.0	12.0	13.0	15.0
8x4	cfm	45	60	70	85	95	105	120	130	140	155	165	190	210	235
Ak .14	Throw	3.0	4.0	5.0	6.0	7.0	7.0	8.0	8.0	9.0	9.0	10.0	12.0	13.0	15.0
8x6	cfm	80	100	120	140	160	180	200	220	240	255	275	315	355	395
Ak .21	Throw	5.0	7.0	8.0	9.0	10.0	12.0	13.0	14.0	15.0	16.0	18.0	21.0	23.0	25.0
8x8	cfm	110	135	165	190	215	245	270	300	325	350	380	435	490	540
Ak .28	Throw	6.0	8.0	9.0	10.0	12.0	13.0	15.0	16.0	18.0	19.0	21.0	24.0	27.0	30.0
10x4	cfm	60	75	90	105	120	135	150	165	180	200	215	245	275	305
Ak .17	Throw	3.0	4.0	5.0	6.0	7.0	7.0	8.0	9.0	10.0	10.0	11.0	13.0	15.0	16.0
10x6	cfm	105	130	155	185	210	235	260	285	310	335	360	415	465	515
Ak .27	Throw	6.0	8.0	9.0	10.0	12.0	13.0	15.0	16.0	18.0	19.0	20.0	23.0	26.0	30.0
10x8	cfm	135	170	205	240	275	305	340	375	410	445	480	550	615	685
Ak .36	Throw	7.0	9.0	10.0	13.0	14.0	15.0	17.0	19.0	20.0	22.0	23.0	27.0	30.0	34.0
10x10	cfm	190	235	280	330	375	425	470	515	565	610	660	750	845	940
Ak .47	Throw	9.0	10.0	12.0	14.0	16.0	18.0	19.0	21.0	23.0	25.0	27.0	31.0	34.0	39.0
12x4	cfm	80	100	120	140	160	180	200	220	240	255	275	315	355	395
Ak .21	Throw	5.0	7.0	8.0	9.0	11.0	12.0	13.0	15.0	16.0	17.0	19.0	20.0	23.0	26.0
12x6	cfm	125	155	185	220	250	280	310	345	375	405	435	500	560	625
Ak .32	Throw	7.0	8.0	10.0	12.0	13.0	14.0	16.0	17.0	19.0	21.0	22.0	26.0	29.0	32.0
12x8	cfm	170	215	260	300	345	390	430	475	515	560	605	690	775	860
Ak .44	Throw	8.0	10.0	12.0	13.0	14.0	18.0	19.0	21.0	22.0	24.0	26.0	29.0	33.0	38.0
12x12	cfm	255	320	385	445	510	575	640	700	765	830	895	1020	1150	1275
Ak .65	Throw	9.0	12.0	14.0	16.0	18.0	22.0	23.0	25.0	27.0	29.0	32.0	36.0	40.0	45.0
14x4	cfm	90	115	140	160	185	210	230	255	275	300	325	370	415	460
Ak .25	Throw	6.0	7.0	9.0	10.0	12.0	13.0	14.0	15.0	18.0	19.0	20.0	22.0	24.0	27.0
14x6	cfm	145	185	220	255	290	330	365	400	440	475	510	585	655	730
Ak .38	Throw	7.0	9.0	11.0	12.0	15.0	16.0	17.0	19.0	21.0	22.0	24.0	27.0	30.0	35.0
14x8	cfm	190	240	290	335	385	430	480	530	575	625	670	770	865	960
Ak .49	Throw	8.0	10.0	12.0	14.0	16.0	18.0	20.0	21.0	24.0	25.0	27.0	31.0	35.0	39.0
16x8	cfm	235	290	350	405	465	525	580	640	700	760	815	930	1050	1165
Ak.582	Throw	9.0	10.0	13.0	14.0	16.0	19.0	21.0	23.0	25.0	27.0	29.0	34.0	39.0	45.0

Terminal velocity of 75 fpm & Throw (ft)

*See page 4 for graph.

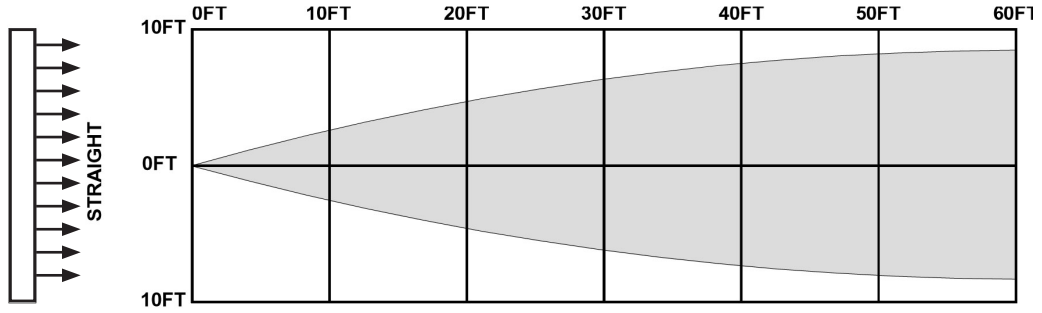
DEFLECTION G

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092	0.108	0.124	0.164	0.204	0.252
6x6	cfm	55	65	80	95	105	120	135	145	160	175	185	215	240	265
Ak .14	Throw	3.0	4.0	5.0	6.0	6.0	7.0	8.0	8.0	9.0	10.0	11.0	12.0	13.0	15.0
8x4	cfm	45	60	70	80	95	105	115	130	140	150	165	185	210	235
Ak .13	Throw	3.0	4.0	5.0	6.0	7.0	7.0	8.0	8.0	9.0	10.0	11.0	12.0	13.0	15.0
8x6	cfm	70	90	110	125	145	160	180	200	215	235	250	290	325	360
Ak .20	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	10.0	11.0	12.0	13.0	15.0	16.0	18.0
8x8	cfm	100	125	150	175	200	225	250	275	300	325	350	400	450	500
Ak .26	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	16.0	18.0	20.0
10x4	cfm	60	75	90	105	120	135	150	165	180	200	215	245	275	305
Ak .16	Throw	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	10.0	11.0	12.0	13.0	15.0	16.0
10x6	cfm	95	115	140	165	185	210	235	255	280	305	330	375	420	470
Ak .25	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	16.0	19.0	20.0
10x8	cfm	125	160	190	220	255	285	315	350	380	410	440	505	570	630
Ak .33	Throw	5.0	6.0	7.0	8.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	19.0	20.0	23.0
10x10	cfm	160	200	240	280	320	360	400	440	480	520	560	640	720	800
Ak .41	Throw	6.0	7.0	8.0	9.0	10.0	13.0	14.0	15.0	16.0	18.0	19.0	21.0	23.0	26.0
12x4	cfm	75	90	110	125	145	165	180	200	220	240	255	290	330	365
Ak .20	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
12x6	cfm	115	145	170	200	230	260	285	315	345	375	400	460	515	575
Ak .30	Throw	4.0	5.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	20.0	21.0	23.0
12x8	cfm	155	195	235	270	310	350	390	425	465	505	545	620	700	775
Ak .40	Throw	5.0	6.0	7.0	9.0	10.0	11.0	12.0	13.0	15.0	17.0	18.0	19.0	22.0	25.0
12x12	cfm	235	295	355	410	470	530	590	645	705	765	825	940	1060	1175
Ak .60	Throw	7.0	8.0	10.0	11.0	13.0	15.0	16.0	17.0	19.0	21.0	22.0	25.0	29.0	31.0
14x4	cfm	85	105	130	150	170	190	215	235	255	275	300	340	385	425
Ak .23	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	14.0	15.0	16.0	17.0	19.0
14x6	cfm	135	170	200	235	270	300	335	370	405	440	472	540	605	675
Ak .35	Throw	5.0	6.0	7.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	18.0	19.0	21.0	23.0
14x8	cfm	175	225	270	310	355	400	445	490	535	580	625	715	805	890
Ak .45	Throw	6.0	7.0	8.0	10.0	11.0	12.0	13.0	15.0	16.0	17.0	19.0	21.0	24.0	27.0
16x8	cfm	215	265	320	373	425	480	535	585	640	695	745	855	960	1065
Ak.533	Throw	6.0	7.0	9.0	10.0	11.0	12.0	14.0	15.0	17.0	19.0	21.0	25.0	30.0	35.0

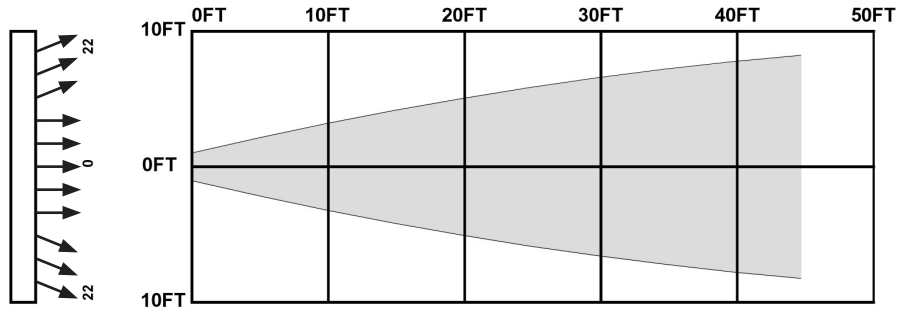
Terminal velocity of 75 fpm & Throw (ft)

*See page 4 for graph.

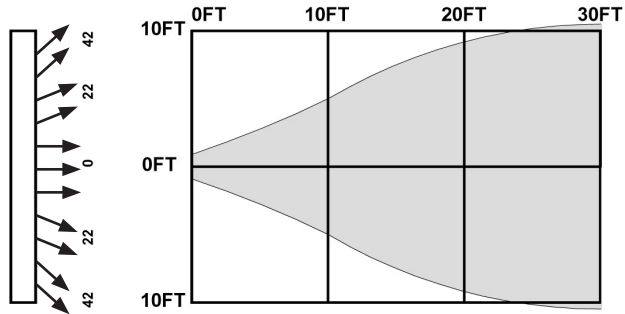
Deflection A



Deflection C



Deflection E



Deflection G

