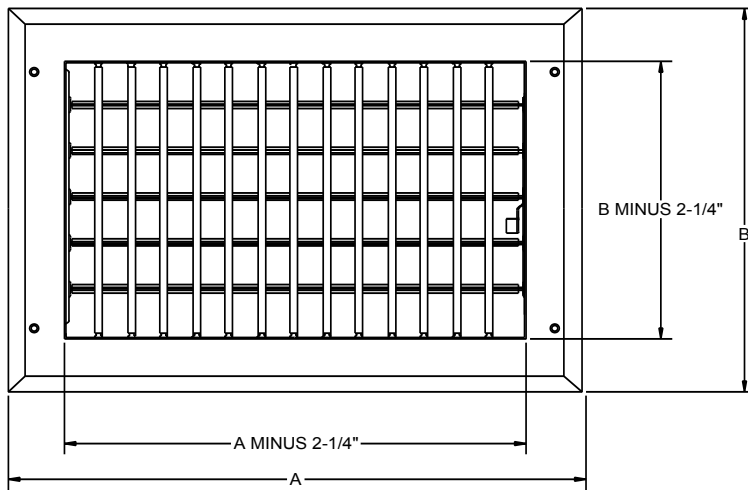
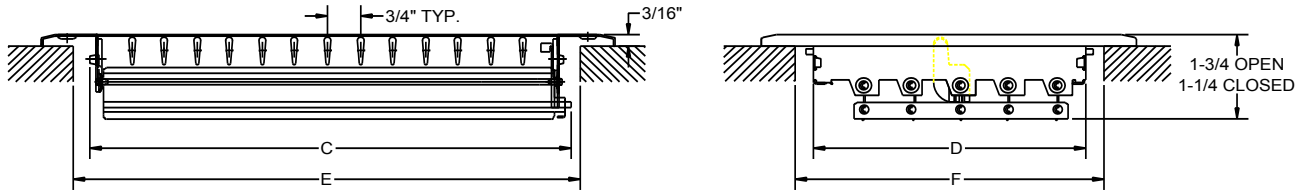




# MFASCA SERIES ALUMINUM ADJUSTABLE SIDEWALL CEILING REGISTER SPECIFICATION CHART



- **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	14x4	15-3/4	5-3/4	13-3/4	3-3/4
8x4	9-3/4	5-3/4	7-3/4	3-3/4	14X6	15-3/4	7-3/4	13-3/4	5-3/4
8x6	9-3/4	7-3/4	7-3/4	5-3/4	14X8	15-3/4	9-3/4	13-3/4	7-3/4
8x8	9-3/4	9-3/4	7-3/4	7-3/4	14X14	15-3/4	15-3/4	13-3/4	13-3/4
10x4	11-3/4	5-3/4	9-3/4	3-3/4	16X6	17-3/4	7-3/4	15-3/4	5-3/4
10X6	11-3/4	7-3/4	9-3/4	5-3/4	18X6	19-3/4	7-3/4	17-3/4	5-3/4
10X8	11-3/4	9-3/4	9-3/4	7-3/4	20X6	21-3/4	7-3/4	19-3/4	5-3/4
10X10	11-3/4	11-3/4	11-3/4	9-3/4	20X8	21-3/4	9-3/4	19-3/4	7-3/4
12X4	13-3/4	5-3/4	11-3/4	3-3/4	24x6	25-3/4	7-3/4	23-3/4	5-3/4
12X6	13-3/4	7-3/4	11-3/4	5-3/4	24x8	25-3/4	9-3/4	23-3/4	7-3/4
12X8	13-3/4	9-3/4	11-3/4	7-3/4	30x6	31-3/4	7-3/4	29-3/4	5-3/4
12X12	13-3/4	13-3/4	11-3/4	11-3/4	30x8	31-3/4	9-3/4	29-3/4	7-3/4

### Deflection A

Face Velocity		400	500	600	700	800	900	1000	1100	1200
Pressure Loss		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092
<b>6x6</b> <b>Ak .19</b>	cfm	70	90	105	125	140	160	175	195	210
	Throw	8.0	10.0	12.0	13.0	15.0	17.0	19.0	20.0	22.0
<b>8x4</b> <b>Ak .17</b>	cfm	65	80	95	110	125	140	160	175	190
	Throw	7.0	9.0	10.0	13.0	14.0	16.0	17.0	19.0	20.0
<b>8x6</b> <b>Ak .26</b>	cfm	95	120	145	170	195	220	240	265	290
	Throw	9.0	10.0	13.0	14.0	17.0	19.0	20.0	23.0	26.0
<b>8x8</b> <b>Ak .35</b>	cfm	135	170	205	240	270	305	340	375	410
	Throw	10.0	12.0	15.0	18.0	20.0	23.0	25.0	28.0	30.0
<b>10x4</b> <b>Ak .21</b>	cfm	80	100	120	140	160	180	200	220	240
	Throw	8.0	10.0	13.0	14.0	15.0	18.0	20.0	21.0	22.0
<b>10x6</b> <b>Ak .33</b>	cfm	125	155	185	215	250	280	310	340	370
	Throw	10.0	13.0	14.0	17.0	20.0	22.0	24.0	27.0	28.0
<b>10x8</b> <b>Ak .43</b>	cfm	165	210	250	295	335	375	420	460	500
	Throw	12.0	13.0	17.0	20.0	23.0	24.0	28.0	31.0	34.0
<b>10x10</b> <b>Ak .54</b>	cfm	210	265	320	370	425	475	530	585	635
	Throw	13.0	15.0	19.0	22.0	23.0	27.0	31.0	33.0	37.0
<b>12x4</b> <b>Ak .26</b>	cfm	95	120	145	170	195	215	240	265	290
	Throw	8.0	11.0	12.0	15.0	17.0	19.0	22.0	23.0	25.0
<b>12x6</b> <b>Ak .38</b>	cfm	150	190	230	265	305	340	380	420	455
	Throw	11.0	14.0	15.0	18.0	22.0	23.0	27.0	29.0	31.0
<b>12x8</b> <b>Ak .53</b>	cfm	205	255	310	360	410	465	515	565	615
	Throw	12.0	15.0	18.0	22.0	23.0	26.0	29.0	32.0	35.0
<b>12x12</b> <b>Ak .79</b>	cfm	310	390	465	545	620	700	780	855	935
	Throw	17.0	19.0	23.0	27.0	30.0	34.0	38.0	41.0	45.0
<b>14x4</b> <b>Ak .30</b>	cfm	115	140	170	200	225	255	285	310	340
	Throw	10.0	12.0	13.0	16.0	19.0	22.0	23.0	25.0	27.0
<b>14x6</b> <b>Ak .46</b>	cfm	180	225	270	315	360	400	445	490	535
	Throw	13.0	15.0	17.0	20.0	23.0	26.0	29.0	31.0	35.0
<b>14x8</b> <b>Ak .60</b>	cfm	235	295	355	415	475	530	590	650	710
	Throw	13.0	16.0	20.0	22.0	25.0	30.0	33.0	36.0	40.0
<b>14x14</b> <b>Ak 1.09</b>	cfm	435	545	655	765	875	985	1095	1200	1310
	Throw	21.0	25.0	30.0	35.0	39.0	43.0	48.0	53.0	58.0
<b>16x6</b> <b>Ak .53</b>	cfm	210	265	320	370	425	475	530	585	635
	Throw	12.0	15.0	18.0	22.0	23.0	26.0	29.0	32.0	35.0
<b>16x8</b> <b>Ak .71</b>	cfm	285	355	425	500	570	640	710	780	850
	Throw	15.0	17.0	22.0	24.0	27.0	31.0	35.0	38.0	42.0
<b>18x6</b> <b>Ak .60</b>	cfm	240	300	360	420	480	535	600	655	715
	Throw	13.0	16.0	20.0	22.0	24.0	28.0	32.0	34.0	37.0
<b>20x6</b> <b>Ak .65</b>	cfm	260	325	390	455	520	585	650	715	780
	Throw	14.0	16.0	21.0	23.0	26.0	29.0	32.0	36.0	40.0
<b>20x8</b> <b>Ak .89</b>	cfm	355	445	535	625	710	800	890	980	1070
	Throw	19.0	21.0	25.0	29.0	32.0	36.0	40.0	43.0	47.0
<b>24x6</b> <b>Ak .80</b>	cfm	320	400	480	560	640	720	800	880	960
	Throw	17.0	19.0	23.0	27.0	30.0	34.0	38.0	41.0	45.0
<b>24x8</b> <b>Ak 1.07</b>	cfm	430	535	640	750	855	965	1070	1175	1285
	Throw	21.0	25.0	30.0	35.0	38.0	42.0	47.0	52.0	57.0
<b>30x6</b> <b>Ak 1.00</b>	cfm	400	500	600	700	800	900	1000	1100	1200
	Throw	21.0	24.0	29.0	34.0	38.0	42.0	47.0	51.0	56.0
<b>30x8</b> <b>Ak 1.35</b>	cfm	540	675	810	945	1080	1215	1350	1485	1620
	Throw	29.0	32.0	39.0	46.0	51.0	57.0	64.0	69.0	76.0

Terminal velocity of 75 fpm & Throw (ft)

\*See page 6 for graph.

### Deflection C

Face Velocity		400	500	600	700	800	900	1000	1100	1200
<b>Pressure Loss</b>		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092
<b>6x6</b> <b>Ak .17</b>	cfm Throw	65 6.0	80 7.0	95 8.0	110 10.0	125 11.0	145 13.0	160 14.0	175 16.0	190 17.0
<b>8x4</b> <b>Ak .16</b>	cfm Throw	55 5.0	70 7.0	85 8.0	100 9.0	115 10.0	125 12.0	140 14.0	155 15.0	170 16.0
<b>8x6</b> <b>Ak .23</b>	cfm Throw	85 7.0	110 9.0	130 10.0	150 12.0	175 13.0	195 15.0	215 17.0	240 19.0	260 20.0
<b>8x8</b> <b>Ak .33</b>	cfm Throw	135 8.0	165 10.0	200 12.0	235 14.0	265 15.0	300 17.0	335 20.0	365 21.0	400 23.0
<b>10x4</b> <b>Ak .19</b>	cfm Throw	70 6.0	90 7.0	105 9.0	125 10.0	145 12.0	160 14.0	180 15.0	195 16.0	215 19.0
<b>10x6</b> <b>Ak .30</b>	cfm Throw	115 8.0	140 10.0	170 12.0	200 13.0	225 15.0	255 17.0	285 19.0	310 20.0	340 23.0
<b>10x8</b> <b>Ak .39</b>	cfm Throw	150 9.0	190 12.0	225 13.0	265 16.0	300 18.0	340 20.0	380 22.0	415 23.0	455 26.0
<b>10x10</b> <b>Ak .48</b>	cfm Throw	190 10.0	240 12.0	285 15.0	335 16.0	380 20.0	430 22.0	475 24.0	525 28.0	570 30.0
<b>12x4</b> <b>Ak .23</b>	cfm Throw	85 7.0	110 9.0	130 10.0	150 12.0	175 14.0	195 15.0	215 18.0	240 19.0	260 20.0
<b>12x6</b> <b>Ak .35</b>	cfm Throw	135 9.0	170 10.0	205 13.0	240 14.0	275 16.0	310 19.0	340 21.0	375 22.0	410 25.0
<b>12x8</b> <b>Ak .48</b>	cfm Throw	185 10.0	230 12.0	280 13.0	325 16.0	370 19.0	415 21.0	465 23.0	510 25.0	555 27.0
<b>12x12</b> <b>Ak .72</b>	cfm Throw	280 12.0	350 15.0	420 18.0	490 21.0	560 24.0	630 26.0	700 29.0	770 32.0	840 35.0
<b>14x4</b> <b>Ak .27</b>	cfm Throw	100 8.0	130 9.0	155 11.0	180 13.0	205 15.0	230 17.0	255 18.0	280 20.0	305 22.0
<b>14x6</b> <b>Ak .43</b>	cfm Throw	165 10.0	205 12.0	250 14.0	290 17.0	330 19.0	375 21.0	415 23.0	455 25.0	495 28.0
<b>14x8</b> <b>Ak .55</b>	cfm Throw	215 10.0	265 13.0	320 15.0	370 18.0	425 21.0	480 23.0	530 26.0	585 28.0	640 33.0
<b>14x14</b> <b>Ak .98</b>	cfm Throw	390 15.0	490 18.0	590 21.0	685 25.0	785 27.0	885 30.0	980 34.0	1080 37.0	1180 41.0
<b>16x6</b> <b>Ak.48</b>	cfm Throw	190 9.0	240 11.0	285 13.0	335 15.0	380 16.0	430 18.0	475 20.0	525 22.0	570 25.0
<b>16x8</b> <b>Ak.639</b>	cfm Throw	255 11.0	320 12.0	385 15.0	445 17.0	510 19.0	575 22.0	640 25.0	705 27.0	765 29.0
<b>18x6</b> <b>Ak .54</b>	cfm Throw	215 9.0	270 11.0	320 14.0	375 15.0	430 17.0	485 20.0	535 22.0	590 24.0	645 26.0
<b>20x6</b> <b>Ak .59</b>	cfm Throw	235 10.0	295 11.0	350 15.0	410 16.0	470 18.0	525 20.0	585 22.0	645 25.0	705 28.0
<b>20x8</b> <b>Ak .80</b>	cfm Throw	320 13.0	400 15.0	480 18.0	560 20.0	640 22.0	720 25.0	800 28.0	880 30.0	960 33.0
<b>24x6</b> <b>Ak .72</b>	cfm Throw	290 12.0	360 13.0	430 16.0	505 19.0	575 21.0	650 24.0	720 27.0	790 29.0	865 32.0
<b>24x8</b> <b>Ak 1.215</b>	cfm Throw	385 15.0	480 18.0	580 21.0	675 25.0	770 27.0	865 29.0	965 33.0	1060 36.0	1155 40.0
<b>30x6</b> <b>Ak .90</b>	cfm Throw	360 15.0	450 17.0	540 20.0	630 24.0	720 27.0	810 29.0	900 33.0	990 36.0	1080 39.0
<b>30x8</b> <b>Ak 1.22</b>	cfm Throw	485 20.0	610 22.0	730 27.0	850 32.0	970 36.0	1095 40.00	1215 45.0	1335 48.0	1460 53.0

Terminal velocity of 75 fpm & Throw (ft)

\*See page 6 for graph.

### Deflection E

Face Velocity		400	500	600	700	800	900	1000	1100	1200
Pressure Loss		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092
<b>6x6</b>	cfm	60	70	85	100	115	130	145	160	175
<b>Ak .15</b>	Throw	3.0	4.0	5.0	5.0	6.0	7.0	8.0	8.0	9.0
<b>8x4</b>	cfm	45	60	70	85	95	105	120	130	140
<b>Ak .14</b>	Throw	3.0	4.0	5.0	6.0	7.0	7.0	8.0	8.0	9.0
<b>8x6</b>	cfm	80	100	120	140	160	180	200	220	240
<b>Ak .21</b>	Throw	5.0	7.0	8.0	9.0	10.0	12.0	13.0	14.0	15.0
<b>8x8</b>	cfm	110	135	165	190	215	245	270	300	325
<b>Ak .28</b>	Throw	6.0	8.0	9.0	10.0	12.0	13.0	15.0	16.0	18.0
<b>10x4</b>	cfm	60	75	90	105	120	135	150	165	180
<b>Ak .17</b>	Throw	3.0	4.0	5.0	6.0	7.0	7.0	8.0	9.0	10.0
<b>10x6</b>	cfm	105	130	155	185	210	235	260	285	310
<b>Ak .27</b>	Throw	6.0	8.0	9.0	10.0	12.0	13.0	15.0	16.0	18.0
<b>10x8</b>	cfm	135	170	205	240	275	305	340	375	410
<b>Ak .36</b>	Throw	7.0	9.0	10.0	13.0	14.0	15.0	17.0	19.0	20.0
<b>10x10</b>	cfm	190	235	280	330	375	425	470	515	565
<b>Ak .47</b>	Throw	9.0	10.0	12.0	14.0	16.0	18.0	19.0	21.0	23.0
<b>12x4</b>	cfm	80	100	120	140	160	180	200	220	240
<b>Ak .21</b>	Throw	5.0	7.0	8.0	9.0	11.0	12.0	13.0	15.0	16.0
<b>12x6</b>	cfm	125	155	185	220	250	280	310	345	375
<b>Ak .32</b>	Throw	7.0	8.0	10.0	12.0	13.0	14.0	16.0	17.0	19.0
<b>12x8</b>	cfm	170	215	260	300	345	390	430	475	515
<b>Ak .44</b>	Throw	8.0	10.0	12.0	13.0	14.0	18.0	19.0	21.0	22.0
<b>12x12</b>	cfm	255	320	385	445	510	575	640	700	765
<b>Ak .65</b>	Throw	9.0	12.0	14.0	16.0	18.0	22.0	23.0	25.0	27.0
<b>14x4</b>	cfm	90	115	140	160	185	210	230	255	275
<b>Ak .25</b>	Throw	6.0	7.0	9.0	10.0	12.0	13.0	14.0	15.0	18.0
<b>14x6</b>	cfm	145	185	220	255	290	330	365	400	440
<b>Ak .38</b>	Throw	7.0	9.0	11.0	12.0	15.0	16.0	17.0	19.0	21.0
<b>14x8</b>	cfm	190	240	290	335	385	430	480	530	575
<b>Ak .49</b>	Throw	8.0	10.0	12.0	14.0	16.0	18.0	20.0	21.0	24.0
<b>14x14</b>	cfm	360	445	535	625	715	805	895	985	1075
<b>Ak .89</b>	Throw	13.0	15.0	18.0	21.0	23.0	26.0	29.0	32.0	35.0
<b>16x6</b>	cfm	175	220	260	305	350	390	435	480	520
<b>Ak .44</b>	Throw	8.0	9.0	11.0	13.0	14.0	16.0	17.0	19.0	21.0
<b>16x8</b>	cfm	235	290	350	405	465	525	580	640	700
<b>Ak .58</b>	Throw	9.0	10.0	13.0	14.0	16.0	19.0	21.0	23.0	25.0
<b>18x6</b>	cfm	195	245	295	345	390	440	490	540	590
<b>Ak .49</b>	Throw	8.0	10.0	12.0	13.0	14.0	17.0	19.0	20.0	22.0
<b>20x6</b>	cfm	215	265	320	375	425	480	535	590	640
<b>Ak .53</b>	Throw	8.0	10.0	13.0	14.0	16.0	17.0	19.0	22.0	24.0
<b>20x8</b>	cfm	290	365	440	510	585	655	730	805	875
<b>Ak .73</b>	Throw	11.0	13.0	15.0	17.0	19.0	22.0	24.0	26.0	28.0
<b>24x6</b>	cfm	260	330	395	460	525	590	655	720	785
<b>Ak .66</b>	Throw	10.0	11.0	14.0	16.0	18.0	20.0	23.0	25.0	27.0
<b>24x8</b>	cfm	350	440	525	615	700	790	875	965	1050
<b>Ak .88</b>	Throw	13.0	15.0	18.0	21.0	23.0	25.0	28.0	31.0	34.0
<b>30x6</b>	cfm	330	410	490	575	655	735	820	900	985
<b>Ak .82</b>	Throw	13.0	14.0	17.0	20.0	23.0	25.0	28.0	31.0	34.0
<b>30x8</b>	cfm	445	555	665	775	885	995	1105	1215	1330
<b>Ak 1.11</b>	Throw	17.0	19.0	23.0	28.0	31.0	34.0	38.0	41.0	46.0

Terminal velocity of 75 fpm & Throw (ft)

\*See page 6 for graph.

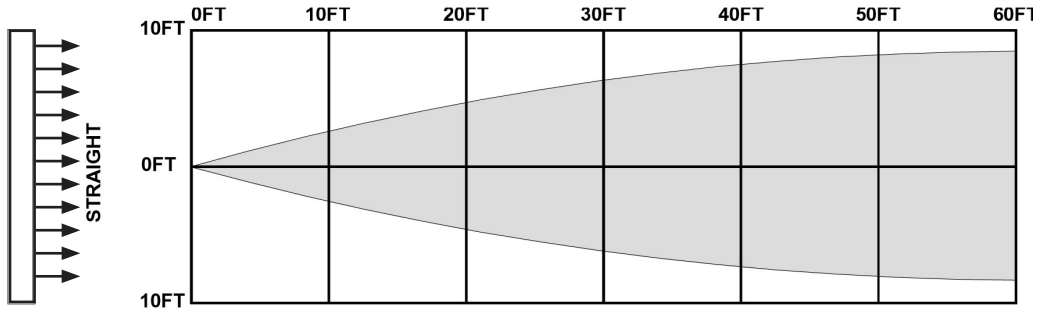
### Deflection G

Face Velocity		400	500	600	700	800	900	1000	1100	1200
Pressure Loss		0.012	0.016	0.024	0.032	0.040	0.052	0.064	0.076	0.092
<b>6x6</b>	cfm	55	65	80	95	105	120	135	145	160
<b>Ak .14</b>	Throw	3.0	4.0	5.0	6.0	6.0	7.0	8.0	8.0	9.0
<b>8x4</b>	cfm	45	60	70	80	95	105	115	130	140
<b>Ak .13</b>	Throw	3.0	4.0	5.0	6.0	7.0	7.0	8.0	8.0	9.0
<b>8x6</b>	cfm	70	90	110	125	145	160	180	200	215
<b>Ak .20</b>	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	10.0	11.0
<b>8x8</b>	cfm	100	125	150	175	200	225	250	275	300
<b>Ak .26</b>	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
<b>10x4</b>	cfm	60	75	90	105	120	135	150	165	180
<b>Ak .16</b>	Throw	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	10.0
<b>10x6</b>	cfm	95	115	140	165	185	210	235	255	280
<b>Ak .25</b>	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
<b>10x8</b>	cfm	125	160	190	220	255	285	315	350	380
<b>Ak .33</b>	Throw	5.0	6.0	7.0	8.0	10.0	11.0	12.0	13.0	14.0
<b>10x10</b>	cfm	160	200	240	280	320	360	400	440	480
<b>Ak .41</b>	Throw	6.0	7.0	8.0	9.0	10.0	13.0	14.0	15.0	16.0
<b>12x4</b>	cfm	75	90	110	125	145	165	180	200	220
<b>Ak .20</b>	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
<b>12x6</b>	cfm	115	145	170	200	230	260	285	315	345
<b>Ak .30</b>	Throw	4.0	5.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0
<b>12x8</b>	cfm	155	195	235	270	310	350	390	425	465
<b>Ak .40</b>	Throw	5.0	6.0	7.0	9.0	10.0	11.0	12.0	13.0	15.0
<b>12x12</b>	cfm	235	295	355	410	470	530	590	645	705
<b>Ak .60</b>	Throw	7.0	8.0	10.0	11.0	13.0	15.0	16.0	17.0	19.0
<b>14x4</b>	cfm	85	105	130	150	170	190	215	235	255
<b>Ak .23</b>	Throw	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0
<b>14x6</b>	cfm	135	170	200	235	270	300	335	370	405
<b>Ak .35</b>	Throw	5.0	6.0	7.0	9.0	10.0	11.0	12.0	13.0	14.0
<b>14x8</b>	cfm	175	225	270	310	355	400	445	490	535
<b>Ak .45</b>	Throw	6.0	7.0	8.0	10.0	11.0	12.0	13.0	15.0	16.0
<b>14x14</b>	cfm	325	410	490	575	655	735	820	900	980
<b>Ak .82</b>	Throw	8.0	10.0	12.0	14.0	16.0	17.0	19.0	21.0	23.0
<b>16x6</b>	cfm	160	200	240	280	320	360	400	440	480
<b>Ak .40</b>	Throw	5.0	6.0	7.0	9.0	9.0	10.0	12.0	13.0	14.0
<b>16x8</b>	cfm	215	265	320	373	425	480	535	585	640
<b>Ak .54</b>	Throw	6.0	7.0	9.0	10.0	11.0	12.0	14.0	15.0	17.0
<b>18x6</b>	cfm	180	225	270	315	360	405	450	495	540
<b>Ak .45</b>	Throw	5.0	6.0	8.0	9.0	10.0	11.0	13.0	14.0	15.0
<b>20x6</b>	cfm	195	245	295	340	390	440	490	535	585
<b>Ak .49</b>	Throw	6.0	6.0	8.0	9.0	10.0	12.0	13.0	14.0	16.0
<b>20x8</b>	cfm	265	335	400	470	535	600	670	735	800
<b>Ak .67</b>	Throw	8.0	8.0	10.0	12.0	13.0	14.0	16.0	17.0	19.0
<b>24x6</b>	cfm	240	300	360	420	480	540	600	660	720
<b>Ak .60</b>	Throw	7.0	8.0	9.0	11.0	12.0	14.0	15.0	16.0	18.0
<b>24x8</b>	cfm	320	400	480	560	640	720	805	885	965
<b>Ak .80</b>	Throw	8.0	10.0	12.0	14.0	15.0	17.0	19.0	21.0	23.0
<b>30x6</b>	cfm	300	375	450	525	600	675	750	825	900
<b>Ak .75</b>	Throw	8.0	10.0	12.0	14.0	15.0	17.0	19.0	20.0	22.0
<b>30x8</b>	cfm	405	505	610	710	810	910	1015	1115	1215
<b>Ak 1.02</b>	Throw	12.0	13.0	16.0	18.0	20.0	23.0	26.0	28.0	30.0

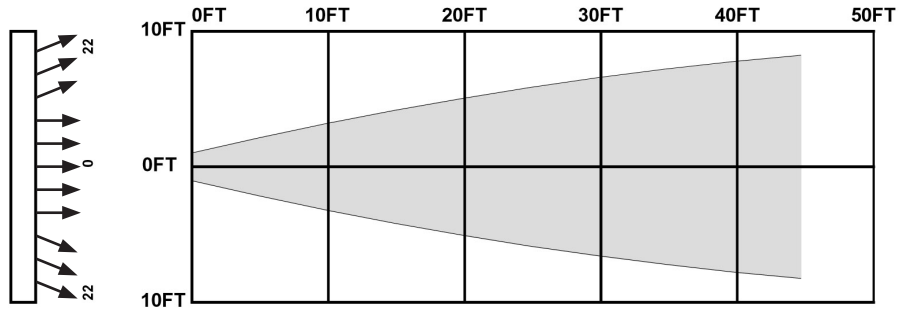
Terminal velocity of 75 fpm & Throw (ft)

\*See page 6 for graph.

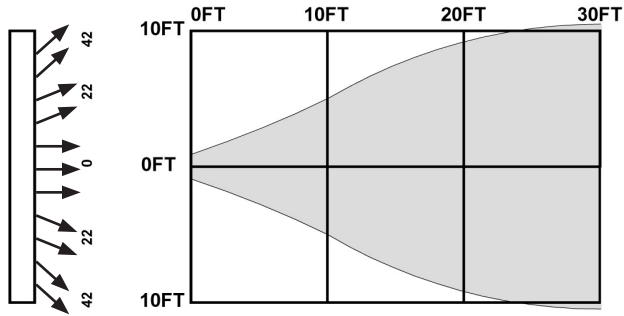
Deflection A



Deflection C



Deflection E



Deflection G

