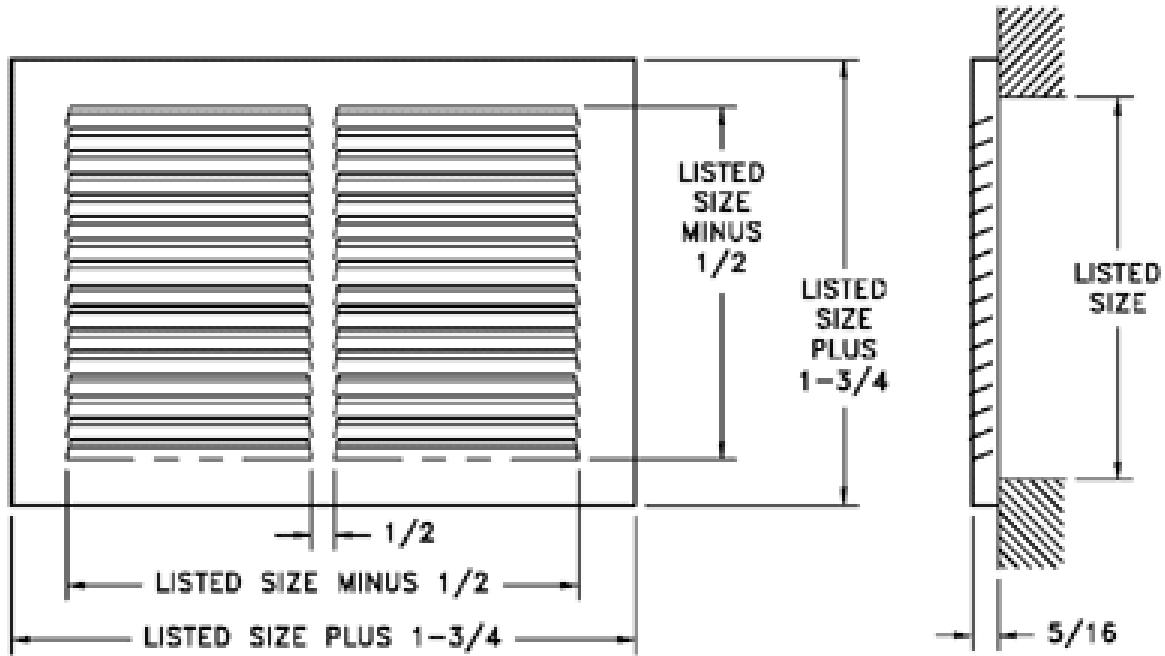


SUBMITTAL DRAWING



For air return application

Heavy gauge steel

Face only without damper 1/2" spaced fins set at 55 degrees

Minimum size = 6" X 4"

Maximum size = 50" X 20"

Finish : White Powder coating

| | | | |
|--------------|----------------|-------------------|--|
| JOB NAME : | SUBMITTED BY : | DATE : | |
| LOCATION : | | 02/03/2015 | |
| ARCHITECT : | | RA | |
| ENGINEER : | | Return Air Grille | |
| CONTRACTOR : | | | |

Return Air Grille ,1/3 Fin Spacing

Return Air Filter Grille,1/3 Fin Spacing

| Face Velocity* | | 300 | 400 | 500 | 600 |
|----------------|-----|------|------|------|------|
| 6 x 4 | CFM | 33 | 44 | 55 | 66 |
| Ak .111 | Ps | .010 | .018 | .029 | .041 |
| 6 x 6 | CFM | 50 | 67 | 83 | 100 |
| Ak .167 | Ps | .010 | .018 | .029 | .041 |
| 8 x 4 | CFM | 44 | 59 | 74 | 89 |
| Ak .148 | Ps | .010 | .018 | .029 | .041 |
| 8 x 6 | CFM | 67 | 89 | 112 | 134 |
| Ak .223 | Ps | .010 | .018 | .029 | .041 |
| 8 x 8 | CFM | 90 | 120 | 150 | 179 |
| Ak .299 | Ps | .010 | .018 | .029 | .041 |
| 10 x 4 | CFM | 56 | 74 | 93 | 111 |
| Ak .186 | Ps | .010 | .018 | .029 | .041 |
| 10 x 6 | CFM | 84 | 112 | 140 | 168 |
| Ak .280 | Ps | .010 | .018 | .029 | .041 |
| 10 x 8 | CFM | 112 | 150 | 187 | 225 |
| Ak .375 | Ps | .010 | .018 | .029 | .041 |
| 10 x 10 | CFM | 141 | 188 | 235 | 282 |
| Ak .470 | Ps | .010 | .018 | .029 | .041 |
| 12 x 6 | CFM | 101 | 135 | 168 | 202 |
| Ak .337 | Ps | .010 | .018 | .029 | .041 |
| 12 x 8 | CFM | 135 | 180 | 226 | 271 |
| Ak .451 | Ps | .010 | .018 | .029 | .041 |
| 12 x 10 | CFM | 170 | 226 | 283 | 339 |
| Ak .566 | Ps | .010 | .018 | .029 | .041 |
| 12 x 12 | CFM | 204 | 272 | 340 | 408 |
| Ak .681 | Ps | .010 | .018 | .029 | .041 |
| 12 x 18 | CFM | 308 | 411 | 513 | 616 |
| Ak 1.027 | Ps | .010 | .018 | .029 | .041 |
| 14 x 6 | CFM | 118 | 158 | 197 | 236 |
| Ak .394 | Ps | .010 | .018 | .029 | .041 |
| 14 x 8 | CFM | 158 | 211 | 264 | 316 |
| Ak .527 | Ps | .010 | .018 | .029 | .041 |
| 14 x 10 | CFM | 198 | 265 | 331 | 397 |
| Ak .661 | Ps | .010 | .018 | .029 | .041 |
| 14 x 12 | CFM | 239 | 318 | 398 | 477 |
| Ak .796 | Ps | .010 | .018 | .029 | .041 |
| 14 x 14 | CFM | 279 | 372 | 465 | 558 |
| Ak .930 | Ps | .010 | .018 | .029 | .041 |
| 14 x 18 | CFM | 360 | 480 | 600 | 720 |
| Ak 1.200 | Ps | .010 | .018 | .029 | .041 |

| Face Velocity* | | 300 | 400 | 500 | 600 |
|----------------|-----|------|------|------|------|
| 16 x 6 | CFM | 135 | 180 | 226 | 271 |
| Ak .451 | Ps | .010 | .018 | .029 | .041 |
| 16 x 8 | CFM | 181 | 242 | 302 | 362 |
| Ak .604 | Ps | .010 | .018 | .029 | .041 |
| 16 x 10 | CFM | 227 | 303 | 379 | 454 |
| Ak .757 | Ps | .010 | .018 | .029 | .041 |
| 16 x 12 | CFM | 273 | 364 | 455 | 547 |
| Ak .911 | Ps | .010 | .018 | .029 | .041 |
| 16 x 14 | CFM | 320 | 426 | 533 | 639 |
| Ak 1.065 | Ps | .010 | .018 | .029 | .041 |
| 16 x 16 | CFM | 366 | 488 | 610 | 732 |
| Ak 1.219 | Ps | .010 | .018 | .029 | .041 |
| 16 x 24 | CFM | 552 | 736 | 920 | 1104 |
| Ak 1.840 | Ps | .010 | .018 | .029 | .041 |
| 18 x 6 | CFM | 153 | 203 | 254 | 305 |
| Ak .508 | Ps | .010 | .018 | .029 | .041 |
| 18 x 18 | CFM | 465 | 619 | 774 | 929 |
| Ak 1.548 | Ps | .010 | .018 | .029 | .041 |
| 20 x 6 | CFM | 170 | 226 | 283 | 339 |
| Ak .566 | Ps | .010 | .018 | .029 | .041 |
| 20 x 10 | CFM | 285 | 380 | 475 | 570 |
| Ak .949 | Ps | .010 | .018 | .029 | .041 |
| 20 x 12 | CFM | 343 | 457 | 571 | 685 |
| Ak 1.142 | Ps | .010 | .018 | .029 | .041 |
| 20 x 14 | CFM | 401 | 534 | 668 | 801 |
| Ak 1.335 | Ps | .010 | .018 | .029 | .041 |
| 20 x 20 | CFM | 575 | 767 | 959 | 1150 |
| Ak 1.917 | Ps | .010 | .018 | .029 | .041 |
| 20 x 24 | CFM | 692 | 923 | 1153 | 1384 |
| Ak 2.307 | Ps | .010 | .019 | .029 | .042 |
| 20 x 25 | CFM | 721 | 962 | 1202 | 1442 |
| Ak 2.404 | Ps | .010 | .019 | .029 | .042 |

| Face Velocity* | | 300 | 400 | 500 | 600 |
|----------------|-----|------|------|------|------|
| 24 x 4 | CFM | 135 | 180 | 226 | 271 |
| Ak .451 | Ps | .010 | .018 | .029 | .041 |
| 24 x 6 | CFM | 204 | 272 | 340 | 408 |
| Ak .681 | Ps | .010 | .018 | .029 | .041 |
| 24 x 8 | CFM | 273 | 364 | 455 | 547 |
| Ak .911 | Ps | .010 | .018 | .029 | .041 |
| 24 x 10 | CFM | 343 | 457 | 571 | 685 |
| Ak 1.142 | Ps | .010 | .018 | .029 | .041 |
| 24 x 12 | CFM | 412 | 550 | 687 | 825 |
| Ak 1.374 | Ps | .010 | .018 | .029 | .041 |
| 24 x 14 | CFM | 482 | 643 | 803 | 964 |
| Ak 1.607 | Ps | .010 | .018 | .029 | .041 |
| 24 x 24 | CFM | 832 | 1110 | 1387 | 1665 |
| Ak 2.775 | Ps | .010 | .019 | .029 | .042 |
| 30 x 4 | CFM | 170 | 226 | 283 | 339 |
| Ak .566 | Ps | .010 | .018 | .029 | .041 |
| 30 x 6 | CFM | 256 | 341 | 427 | 512 |
| Ak .853 | Ps | .010 | .018 | .029 | .041 |
| 30 x 8 | CFM | 343 | 457 | 571 | 685 |
| Ak 1.142 | Ps | .010 | .018 | .029 | .041 |
| 30 x 10 | CFM | 430 | 573 | 716 | 859 |
| Ak 1.432 | Ps | .010 | .018 | .029 | .041 |
| 30 x 12 | CFM | 517 | 689 | 862 | 1034 |
| Ak 1.723 | Ps | .010 | .018 | .029 | .041 |
| 30 x 14 | CFM | 604 | 806 | 1007 | 1209 |
| Ak 2.015 | Ps | .010 | .018 | .029 | .042 |
| 30 x 18 | CFM | 780 | 1040 | 1300 | 1560 |
| Ak 2.599 | Ps | .010 | .019 | .029 | .042 |
| 30 x 20 | CFM | 868 | 1157 | 1446 | 1735 |
| Ak 2.892 | Ps | .010 | .019 | .029 | .042 |
| 30 x 24 | CFM | 1044 | 1392 | 1740 | 2088 |
| Ak 3.479 | Ps | .010 | .019 | .029 | .042 |
| 30 x 30 | CFM | 1309 | 1745 | 2181 | 2618 |
| Ak 4.363 | Ps | .010 | .019 | .029 | .042 |
| 36 x 6 | CFM | 308 | 411 | 513 | 616 |
| Ak 1.027 | Ps | .010 | .018 | .029 | .041 |
| 36 x 8 | CFM | 412 | 550 | 687 | 825 |
| Ak 1.374 | Ps | .010 | .018 | .029 | .041 |

*Filter grilles: Tested without filters. Typical capacity is 2 CFM per square inch of nominal filter area. Recommended face velocity is 300-450 FPM. Velocities higher will decrease filter performance, increase flow resistance, and possibly be of noise concern. Velocity measured 1" from face.