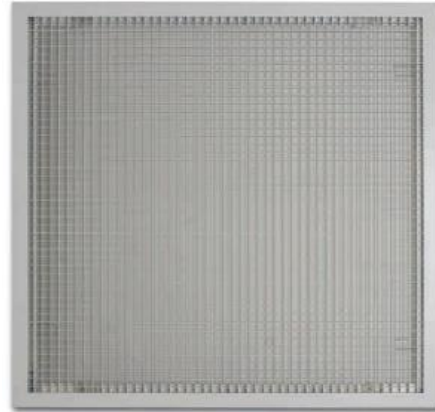
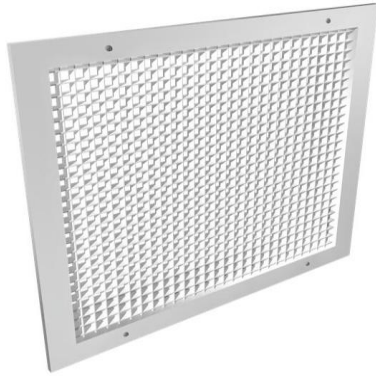


EGG CRATE GRILLE



DESCRIPTION:

KPM: Return and Supply type Egg Crate Grille with 12x12mm or 20x20mm grid size.

MATERIAL:

Extruded Aluminum Frame and Grid Core

APPLICATION:

The grille type KPM is used for the exhaust and supply of large quantities of air with minor pressure loss in facilities such as offices, warehouses, shopping centers....

The grille type KPM is used for the exhaust of large quantities of air with minor pressure loss and as access door for the equipment like fan-coil etc.

FINISHING:

- Standard finishing is natural anodized. Electrostatic powder coating is optional.
- Standard colors are RAL 9010 and RAL 9016. Other colors are available with enamel paint.

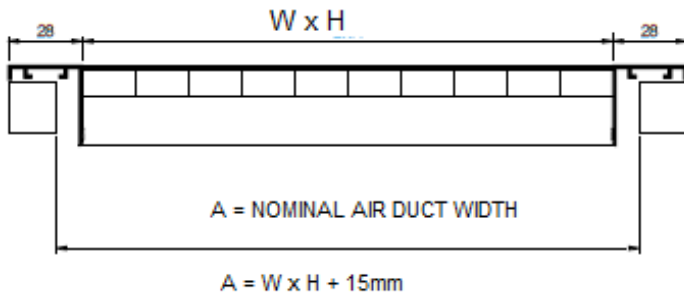
INSTALLATION:

- System with screws is standard.
- System with clips and plate spring is used if no hole is requested on the frame.

ACCESSORIES:

- If desired, it is possible to add a damper to adjust the amount of air to be collected.
PKD: Parallel Blade Damper
ZKD: Opposite Blade Damper
- PK: Plenum Box
- KK: Subframe
- EU2, EU3, EU4, EU5 type synthetic filter on back of grille

STANDARD SIZES:



| AVAILABLE SIZES (mm) - Always width x height | | | | | | | | | | | |
|--|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | WIDHT | | | | | | | | | | |
| HEIGHT | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |
| 100 | X | X | X | X | X | X | X | X | X | X | X |
| 150 | X | X | X | X | X | X | X | X | X | X | X |
| 200 | X | X | X | X | X | X | X | X | X | X | X |
| 250 | X | X | X | X | X | X | X | X | X | X | X |
| 300 | X | X | X | X | X | X | X | X | X | X | X |
| 350 | X | X | X | X | X | X | X | X | X | X | X |
| 400 | X | X | X | X | X | X | X | X | X | X | X |
| 450 | X | X | X | X | X | X | X | X | X | X | X |
| 500 | X | X | X | X | X | X | X | X | X | X | X |
| 550 | X | X | X | X | X | X | X | X | X | X | X |
| 600 | X | X | X | X | X | X | X | X | X | X | X |

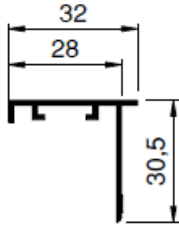
* Any combination of these sizes

| AVAILABLE SIZES (in.) - Always width x height | | | | | | | | | | | |
|---|-------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| | WIDHT | | | | | | | | | | |
| HEIGHT | 4" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 22" | 24" |
| 4" | X | X | X | X | X | X | X | X | X | X | X |
| 6" | X | X | X | X | X | X | X | X | X | X | X |
| 8" | X | X | X | X | X | X | X | X | X | X | X |
| 10" | X | X | X | X | X | X | X | X | X | X | X |
| 12" | X | X | X | X | X | X | X | X | X | X | X |
| 14" | X | X | X | X | X | X | X | X | X | X | X |
| 16" | X | X | X | X | X | X | X | X | X | X | X |
| 18" | X | X | X | X | X | X | X | X | X | X | X |
| 20" | X | X | X | X | X | X | X | X | X | X | X |
| 22" | X | X | X | X | X | X | X | X | X | X | X |
| 24" | X | X | X | X | X | X | X | X | X | X | X |

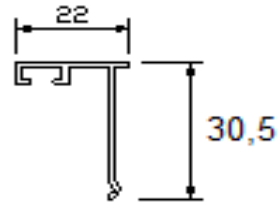
* Any combination of these sizes

EGG CRATE GRILLE

FRAME TYPES:



32mm Frame

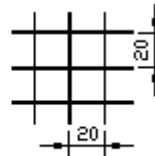
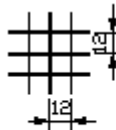
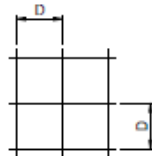


22mm Frame

DRAWINGS:

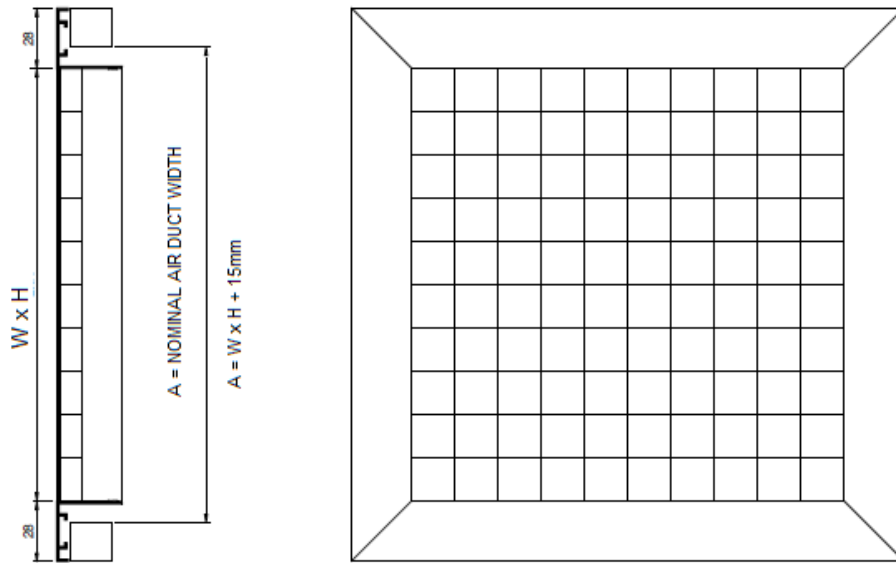
GRID SIZES:

| D size | D (mm) | |
|--------|--------|----|
| | 12 | 20 |



EGG CRATE GRILLES:

EGG CRATE GRILLE



QUICK SELECTION TABLE:



EGG CRATE GRILLE

| DEBl (m³/h) | WX H | 200 x 100 | 300 x 150 | 400 x 200 | 300 x 300 | 500 x 300 | 600 x 300 | 800 x 300 | 600 x 600 | 1000 x 600 |
|-------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | A _k (m²) | 0,017 | 0,040 | 0,072 | 0,081 | 0,135 | 0,163 | 0,217 | 0,328 | 0,547 |
| 200 | NR | 11 | | | | | | | | |
| | Pt (Pa) | 6,6 | | | | | | | | |
| | V (m/s) | 3,3 | | | | | | | | |
| 300 | NR | 21 | | | | | | | | |
| | Pt (Pa) | 14,1 | | | | | | | | |
| | V (m/s) | 4,9 | | | | | | | | |
| 400 | NR | 28 | 11 | | | | | | | |
| | Pt (Pa) | 18,0 | 5,0 | | | | | | | |
| | V (m/s) | 6,5 | 2,8 | | | | | | | |
| 500 | NR | | 16 | | | | | | | |
| | Pt (Pa) | | 7,2 | | | | | | | |
| | V (m/s) | | 3,5 | | | | | | | |
| 600 | NR | | 21 | 9 | | | | | | |
| | Pt (Pa) | | 9,9 | 3,3 | | | | | | |
| | V (m/s) | | 4,2 | 2,3 | | | | | | |
| 800 | NR | | 28 | 16 | | | | | | |
| | Pt (Pa) | | 18,0 | 6,0 | | | | | | |
| | V (m/s) | | 5,6 | 3,1 | | | | | | |
| 1000 | NR | | | 21 | 19 | | | | | |
| | Pt (Pa) | | | 8,7 | 6,9 | | | | | |
| | V (m/s) | | | 3,9 | 3,4 | | | | | |
| 1200 | NR | | | 26 | 23 | | | | | |
| | Pt (Pa) | | | 12,6 | 9,9 | | | | | |
| | V (m/s) | | | 4,6 | 4,1 | | | | | |
| 1500 | NR | | | 31 | 28 | 18 | | | | |
| | Pt (Pa) | | | 17,4 | 15,3 | 5,7 | | | | |
| | V (m/s) | | | 5,8 | 5,1 | 3,1 | | | | |
| 2000 | NR | | | | 35 | 25 | 21 | 16 | | |
| | Pt (Pa) | | | | 25,2 | 9,9 | 6,9 | 4,2 | | |
| | V (m/s) | | | | 6,8 | 4,1 | 3,4 | 2,6 | | |
| 3000 | NR | | | | | 35 | 31 | 26 | 17 | |
| | Pt (Pa) | | | | | 18,6 | 15,3 | 8,1 | 3,6 | |
| | V (m/s) | | | | | 6,2 | 5,1 | 3,8 | 2,5 | |
| 4000 | NR | | | | | | 37 | 32 | 24 | |
| | Pt (Pa) | | | | | | 25,2 | 15,3 | 6,9 | |
| | V (m/s) | | | | | | 6,8 | 5,1 | 3,4 | |
| 5000 | NR | | | | | | | 39 | 30 | |
| | Pt (Pa) | | | | | | | 19,8 | 10,5 | |
| | V (m/s) | | | | | | | 6,4 | 4,2 | |
| 6000 | NR | | | | | | | 44 | 34 | 23 |
| | Pt (Pa) | | | | | | | 30,0 | 15,3 | 5,4 |
| | V (m/s) | | | | | | | 7,7 | 5,1 | 3,0 |

Qk(m³/h) = Air follow
Ak(m²) = Effective Area

Vk(m/s) = Velocity
Pt(Pa) = Pressure Lost

* All measure are in mm.

EGG CRATE GRILLE

SELECTION DIAGRAM:

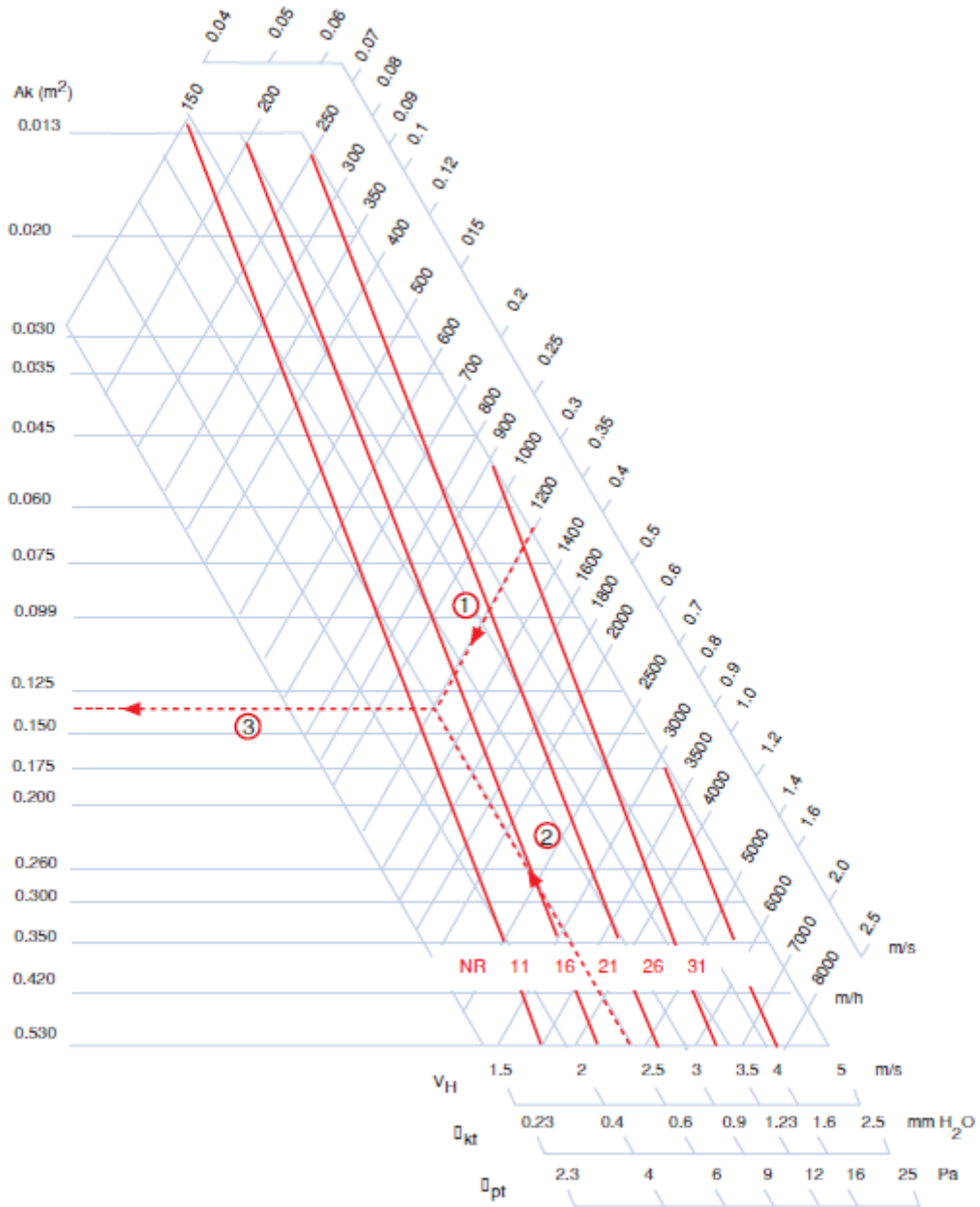


Diagram-1

| without Damper | 100 % Damper Open | 50 % Damper Open | 25 % Damper Open |
|----------------|-------------------|------------------|------------------|
| Pt X 1.00 | Pt X 1.00 | Pt X 2.25 | Pt X 5.90 |
| LW + 0 | LW + 0 | LW +10 | LW +20 |

Table-1

| without filter | with filter |
|----------------|-------------|
| Pt X 1.00 | Pt X 1.70 |
| LW + 0 | LW +0 |

Table-2

EFFECTIVE AREA:

KPM 12x12mm Effective Area $A_k(m^2)$

| | | $A_k (m^2)$ | | | | | | | | | | |
|--------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | H (mm) | | | | | | | | | | |
| W (mm) | | 200 | 250 | 300 | 400 | 450 | 500 | 600 | 700 | 800 | 1000 | 1200 |
| | 100 | 0,016 | 0,020 | 0,024 | 0,033 | 0,037 | 0,041 | 0,049 | 0,057 | 0,065 | 0,081 | 0,098 |
| | 150 | 0,025 | 0,032 | 0,038 | 0,051 | 0,057 | 0,063 | 0,076 | 0,089 | 0,101 | 0,127 | 0,152 |
| | 200 | 0,034 | 0,043 | 0,051 | 0,068 | 0,077 | 0,085 | 0,102 | 0,119 | 0,136 | 0,170 | 0,204 |
| | 250 | 0,042 | 0,053 | 0,064 | 0,085 | 0,095 | 0,106 | 0,127 | 0,148 | 0,170 | 0,212 | 0,254 |
| | 300 | 0,050 | 0,063 | 0,076 | 0,101 | 0,113 | 0,126 | 0,151 | 0,176 | 0,201 | 0,252 | 0,302 |
| | 400 | 0,065 | 0,081 | 0,098 | 0,130 | 0,147 | 0,163 | 0,196 | 0,228 | 0,261 | 0,326 | 0,391 |
| | 450 | 0,072 | 0,090 | 0,108 | 0,144 | 0,162 | 0,180 | 0,216 | 0,252 | 0,288 | 0,360 | 0,432 |
| | 500 | 0,079 | 0,098 | 0,118 | 0,157 | 0,177 | 0,196 | 0,236 | 0,275 | 0,314 | 0,393 | 0,471 |
| 600 | 0,090 | 0,113 | 0,136 | 0,181 | 0,203 | 0,226 | 0,271 | 0,316 | 0,361 | 0,452 | 0,542 | |

Table-3

KPM 20x20mm Effective Area $A_k(m^2)$

| | | $A_k (m^2)$ | | | | | | | | | | |
|--------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | H (mm) | | | | | | | | | | |
| W (mm) | | 200 | 250 | 300 | 400 | 450 | 500 | 600 | 700 | 800 | 1000 | 1200 |
| | 100 | 0,0177 | 0,0220 | 0,0265 | 0,0353 | 0,0398 | 0,0442 | 0,0530 | 0,0619 | 0,0707 | 0,0884 | 0,1060 |
| | 150 | 0,0271 | 0,0338 | 0,0406 | 0,0542 | 0,0610 | 0,0677 | 0,0813 | 0,0948 | 0,1084 | 0,1355 | 0,1626 |
| | 200 | 0,0363 | 0,0453 | 0,0544 | 0,0726 | 0,0816 | 0,0907 | 0,1088 | 0,1270 | 0,1451 | 0,1814 | 0,2177 |
| | 250 | 0,0452 | 0,0565 | 0,0678 | 0,0905 | 0,1018 | 0,1131 | 0,1357 | 0,1583 | 0,1809 | 0,2262 | 0,2714 |
| | 300 | 0,0540 | 0,0674 | 0,0809 | 0,1079 | 0,1214 | 0,1349 | 0,1619 | 0,1888 | 0,2158 | 0,2698 | 0,3237 |
| | 400 | 0,0707 | 0,0883 | 0,1060 | 0,1414 | 0,1591 | 0,1767 | 0,2121 | 0,2474 | 0,2828 | 0,3535 | 0,4242 |
| | 450 | 0,0787 | 0,0984 | 0,1181 | 0,1574 | 0,1771 | 0,1968 | 0,2362 | 0,2755 | 0,3149 | 0,3936 | 0,4723 |
| | 500 | 0,0865 | 0,1081 | 0,1298 | 0,1730 | 0,1947 | 0,2163 | 0,2595 | 0,3028 | 0,3460 | 0,4326 | 0,5191 |
| 600 | 0,1014 | 0,1267 | 0,1521 | 0,2028 | 0,2281 | 0,2535 | 0,3042 | 0,3549 | 0,4056 | 0,5070 | 0,6084 | |

Table-4

Sample Grille Selection:

$Q_v = 1200 \text{ m}^3/\text{h}$ (1) , $V_h : 2,5\text{m/s}$ (2)

Result :

Diagram 1 for ; $A_k : 0,135\text{m}^2$ (3) , $P_t : 6,0 \text{ Pa}$ Table-3 for $W \times H = 600 \times 300$



EGG CRATE GRILLE

Performans Data (in) 0° Core

| Core Area (sq. ft.) | Nominal Size | Core Velocity (fpm) Velocity Pressure (in. w.g.) Neg. Static Pressure (in. w.g.) | NC20 | | | | | | | | | | NC30 | | | | |
|---------------------|--------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | | | 300 | 400 | 500 | 600 | 700 | 800 | 1000 | 1200 | 1400 | 1500 | 0.062 | 0.090 | 0.122 | 0.14 | |
| | | | 0.006 | 0.010 | 0.016 | 0.022 | 0.031 | 0.040 | 0.062 | 0.090 | 0.122 | 0.14 | 0.132 | 0.192 | 0.260 | 0.298 | |
| | | | 0.013 | 0.021 | 0.034 | 0.047 | 0.066 | 0.085 | 0.132 | 0.192 | 0.260 | 0.298 | 0.132 | 0.192 | 0.260 | 0.298 | |
| 0.15 | 7 x 4 6 x 5 | Flow Rate (cfm) | 45 | 60 | 75 | 90 | 105 | 120 | 150 | 180 | 210 | 225 | 150 | 180 | 210 | 225 | |
| | | Sound (NC) | - | - | - | - | - | - | 22 | 28 | 34 | 37 | 22 | 28 | 34 | 37 | |
| 0.18 | 8 x 4 7 x 5 | Flow Rate (cfm) | 54 | 72 | 90 | 108 | 126 | 144 | 180 | 216 | 252 | 270 | 180 | 216 | 252 | 270 | |
| | | Sound (NC) | - | - | - | - | - | - | 22 | 29 | 35 | 38 | 22 | 29 | 35 | 38 | |
| 0.22 | 10 x 4 8 x 5 | Flow Rate (cfm) | 66 | 88 | 110 | 132 | 154 | 176 | 220 | 264 | 308 | 330 | 220 | 264 | 308 | 330 | |
| | | Sound (NC) | - | - | - | - | - | - | 23 | 30 | 36 | 38 | 23 | 30 | 36 | 38 | |
| 0.26 | 12 x 4 10 x 5 | Flow Rate (cfm) | 78 | 104 | 130 | 156 | 182 | 208 | 260 | 312 | 364 | 390 | 260 | 312 | 364 | 390 | |
| | | Sound (NC) | - | - | - | - | - | - | 15 | 24 | 31 | 39 | 15 | 24 | 31 | 39 | |
| 0.30 | 14 x 4 | Flow Rate (cfm) | 90 | 120 | 150 | 180 | 210 | 240 | 300 | 360 | 420 | 450 | 300 | 360 | 420 | 450 | |
| | | Sound (NC) | - | - | - | - | - | - | 16 | 24 | 31 | 40 | 16 | 24 | 31 | 40 | |
| 0.34 | 16 x 4 12 x 5 | Flow Rate (cfm) | 102 | 136 | 170 | 204 | 238 | 272 | 340 | 408 | 476 | 510 | 340 | 408 | 476 | 510 | |
| | | Sound (NC) | - | - | - | - | - | - | 16 | 25 | 32 | 40 | 16 | 25 | 32 | 40 | |
| 0.39 | 18 x 4 14 x 5 | Flow Rate (cfm) | 117 | 156 | 195 | 234 | 273 | 312 | 390 | 468 | 546 | 585 | 390 | 468 | 546 | 585 | |
| | | Sound (NC) | - | - | - | - | - | - | 17 | 25 | 32 | 41 | 17 | 25 | 32 | 41 | |
| 0.46 | 20 x 4 16 x 5 | Flow Rate (cfm) | 138 | 184 | 230 | 276 | 322 | 368 | 460 | 552 | 644 | 690 | 460 | 552 | 644 | 690 | |
| | | Sound (NC) | - | - | - | - | - | - | 18 | 26 | 33 | 41 | 18 | 26 | 33 | 41 | |
| 0.52 | 24 x 4 18 x 5 | Flow Rate (cfm) | 156 | 208 | 260 | 312 | 364 | 416 | 520 | 624 | 728 | 780 | 520 | 624 | 728 | 780 | |
| | | Sound (NC) | - | - | - | - | - | - | 18 | 26 | 33 | 42 | 18 | 26 | 33 | 42 | |
| 0.60 | 28 x 4 20 x 5 | Flow Rate (cfm) | 180 | 240 | 300 | 360 | 420 | 480 | 600 | 720 | 840 | 900 | 600 | 720 | 840 | 900 | |
| | | Sound (NC) | - | - | - | - | - | - | 19 | 27 | 34 | 42 | 19 | 27 | 34 | 42 | |
| 0.69 | 30 x 4 24 x 5 | Flow Rate (cfm) | 207 | 276 | 345 | 414 | 483 | 552 | 690 | 828 | 966 | 1035 | 690 | 828 | 966 | 1035 | |
| | | Sound (NC) | - | - | - | - | - | - | 19 | 28 | 34 | 43 | 19 | 28 | 34 | 43 | |
| 0.81 | 36 x 4 28 x 5 | Flow Rate (cfm) | 243 | 324 | 405 | 486 | 567 | 648 | 810 | 972 | 1134 | 1215 | 810 | 972 | 1134 | 1215 | |
| | | Sound (NC) | - | - | - | - | - | - | 20 | 28 | 35 | 43 | 20 | 28 | 35 | 43 | |
| 0.90 | 40 x 4 30 x 5 | Flow Rate (cfm) | 270 | 360 | 450 | 540 | 630 | 720 | 900 | 1080 | 1260 | 1350 | 900 | 1080 | 1260 | 1350 | |
| | | Sound (NC) | - | - | - | - | - | - | 15 | 20 | 29 | 44 | 15 | 20 | 29 | 44 | |
| 1.07 | 48 x 4 36 x 5 | Flow Rate (cfm) | 321 | 428 | 535 | 642 | 749 | 856 | 1070 | 1284 | 1498 | 1605 | 1070 | 1284 | 1498 | 1605 | |
| | | Sound (NC) | - | - | - | - | - | - | 16 | 21 | 29 | 45 | 16 | 21 | 29 | 45 | |
| 1.18 | 34 x 6 24 x 8 | Flow Rate (cfm) | 354 | 472 | 590 | 708 | 826 | 944 | 1180 | 1416 | 1652 | 1770 | 1180 | 1416 | 1652 | 1770 | |
| | | Sound (NC) | - | - | - | - | - | - | 16 | 21 | 30 | 45 | 16 | 21 | 30 | 45 | |
| 1.34 | 60 x 4 48 x 5 | Flow Rate (cfm) | 402 | 536 | 670 | 804 | 938 | 1072 | 1340 | 1608 | 1876 | 2010 | 1340 | 1608 | 1876 | 2010 | |
| | | Sound (NC) | - | - | - | - | - | - | 17 | 22 | 30 | 45 | 17 | 22 | 30 | 45 | |
| 1.60 | 72 x 4 30 x 8 | Flow Rate (cfm) | 480 | 640 | 800 | 960 | 1120 | 1280 | 1600 | 1920 | 2240 | 2400 | 1600 | 1920 | 2240 | 2400 | |
| | | Sound (NC) | - | - | - | - | - | - | 17 | 22 | 31 | 46 | 17 | 22 | 31 | 46 | |
| 1.80 | 60 x 5 48 x 6 | Flow Rate (cfm) | 540 | 720 | 900 | 1080 | 1260 | 1440 | 1800 | 2160 | 2520 | 2700 | 1800 | 2160 | 2520 | 2700 | |
| | | Sound (NC) | - | - | - | - | - | - | 18 | 23 | 31 | 47 | 18 | 23 | 31 | 47 | |
| 2.08 | 72 x 5 60 x 6 | Flow Rate (cfm) | 624 | 832 | 1040 | 1248 | 1456 | 1664 | 2080 | 2496 | 2912 | 3120 | 2080 | 2496 | 2912 | 3120 | |
| | | Sound (NC) | - | - | - | - | - | - | 18 | 23 | 32 | 47 | 18 | 23 | 32 | 47 | |
| 2.45 | 72 x 6 48 x 8 | Flow Rate (cfm) | 735 | 980 | 1225 | 1470 | 1715 | 1960 | 2450 | 2940 | 3430 | 3675 | 2450 | 2940 | 3430 | 3675 | |
| | | Sound (NC) | - | - | - | - | - | - | 19 | 24 | 33 | 48 | 19 | 24 | 33 | 48 | |
| 2.78 | 36 x 12 30 x 14 | Flow Rate (cfm) | 834 | 1112 | 1390 | 1668 | 1946 | 2224 | 2780 | 3336 | 3892 | 4170 | 2780 | 3336 | 3892 | 4170 | |
| | | Sound (NC) | - | - | - | - | - | - | 20 | 25 | 33 | 48 | 20 | 25 | 33 | 48 | |
| 3.11 | 60 x 8 48 x 10 | Flow Rate (cfm) | 933 | 1244 | 1555 | 1866 | 2177 | 2488 | 3110 | 3732 | 4354 | 4665 | 3110 | 3732 | 4354 | 4665 | |
| | | Sound (NC) | - | - | - | - | - | - | 20 | 25 | 33 | 49 | 20 | 25 | 33 | 49 | |
| 3.61 | 72 x 8 60 x 10 | Flow Rate (cfm) | 1083 | 1444 | 1805 | 2166 | 2527 | 2888 | 3610 | 4332 | 5054 | 5415 | 3610 | 4332 | 5054 | 5415 | |
| | | Sound (NC) | - | - | - | - | - | - | 21 | 26 | 34 | 49 | 21 | 26 | 34 | 49 | |
| 4.29 | 48 x 14 36 x 18 | Flow Rate (cfm) | 1287 | 1716 | 2145 | 2574 | 3003 | 3432 | 4290 | 5148 | 6006 | 6435 | 4290 | 5148 | 6006 | 6435 | |
| | | Sound (NC) | - | - | - | - | - | - | 15 | 21 | 26 | 50 | 15 | 21 | 26 | 50 | |
| 4.65 | 72 x 10 48 x 16 | Flow Rate (cfm) | 1395 | 1860 | 2325 | 2790 | 3255 | 3720 | 4650 | 5580 | 6510 | 6975 | 4650 | 5580 | 6510 | 6975 | |
| | | Sound (NC) | - | - | - | - | - | - | 22 | 27 | 35 | 50 | 22 | 27 | 35 | 50 | |
| 5.58 | 72 x 12 60 x 14 | Flow Rate (cfm) | 1674 | 2232 | 2790 | 3348 | 3906 | 4464 | 5580 | 6696 | 7812 | 8370 | 5580 | 6696 | 7812 | 8370 | |
| | | Sound (NC) | - | - | - | - | - | - | 22 | 27 | 36 | 51 | 22 | 27 | 36 | 51 | |
| 6.25 | 72 x 14 60 x 16 | Flow Rate (cfm) | 1875 | 2500 | 3125 | 3750 | 4375 | 5000 | 6250 | 7500 | 8750 | 9375 | 6250 | 7500 | 8750 | 9375 | |
| | | Sound (NC) | - | - | - | - | - | - | 23 | 28 | 36 | 51 | 23 | 28 | 36 | 51 | |

EGG CRATE GRILLE

Performance Notes:

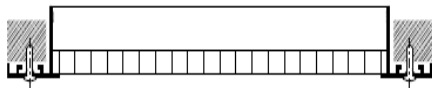
1. Tested in accordance with ASHRAE Standard 70 – 2006 Method of Testing for Rating the Performance of Air Outlets and Inlets.
2. Airflow is in cubic feet per minute [cfm].
3. NC, sound pressure levels, are based on a room absorption of 10 dB re 10⁻¹² Watts, and a single diffuser/grille.
4. Blanks "-" indicate an NC level below 15.
5. All pressures are in inches of water column [in. w.g.].
6. Pressures not listed can be calculated using the following formula:

$$P_{total} = P_{static} + P_{velocity}$$
7. Grille tested without damper. Corrections for grille with damper:
 - Multiply negative static pressure by 1.3
 - Add 6 to listed NC.
8. The performance tables are based on grilles with F border. For ED border the following correction factors must be applied due to the reduced core area of this border:
9. Does not include pressure drop through filter on FF, FH models
10. Does not include effects of ceiling radiation damper (80-FR, 80FF-FR, 81-FR, 82-FR).

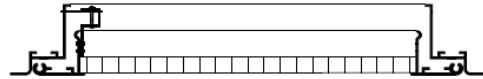
| Listed Core Area | Multiply Total Pressure | Add NC |
|------------------|-------------------------|--------|
| .15 - .30 | 2.4 | +15 |
| .34 - .90 | 1.9 | +10 |
| 1.07 - 1.80 | 1.4 | +5 |
| 2.08 - 6.25 | 1.2 | +2 |

MOUNTING DETAILS:

1. Screw Mounting Details

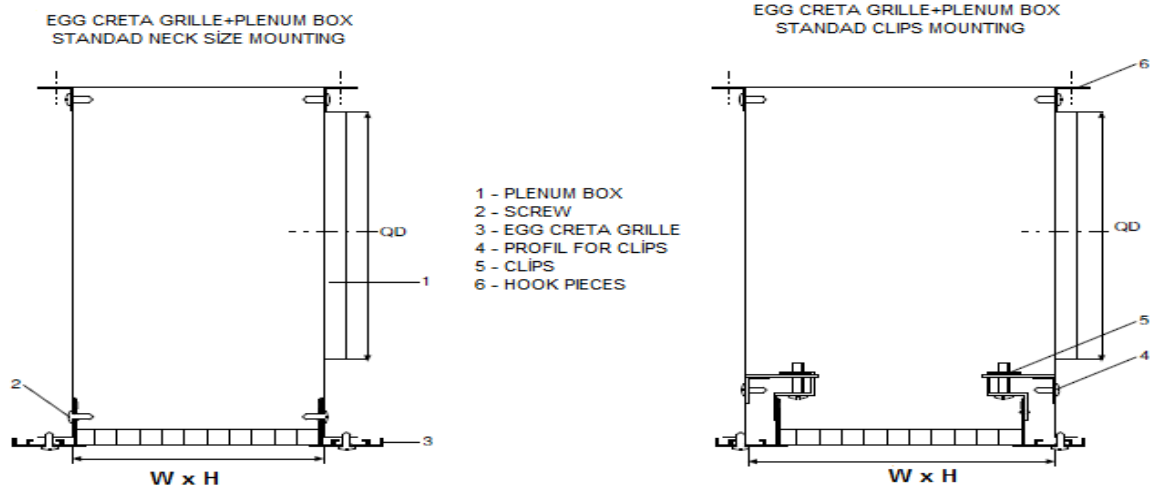


2 - Clips Mounting Details



EGG CRATE GRILLES PLENUM BOX MOUNTING DETAILS :

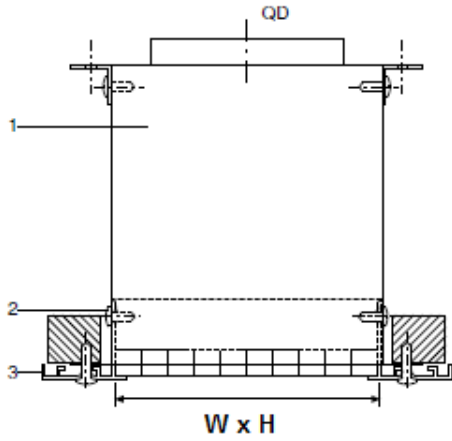
1 - SID ENTRY PLENUM BOX MOUNTING DETAILS



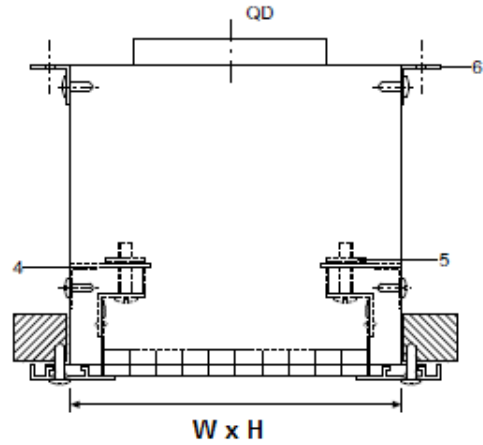
2 – TOP ENTRY PLENUM BOX MOUNTING DETAILS

EGG CRATE GRILLE

EGG CREAT GRILLE + PLENUM BOX
STANDARD MOUNTING

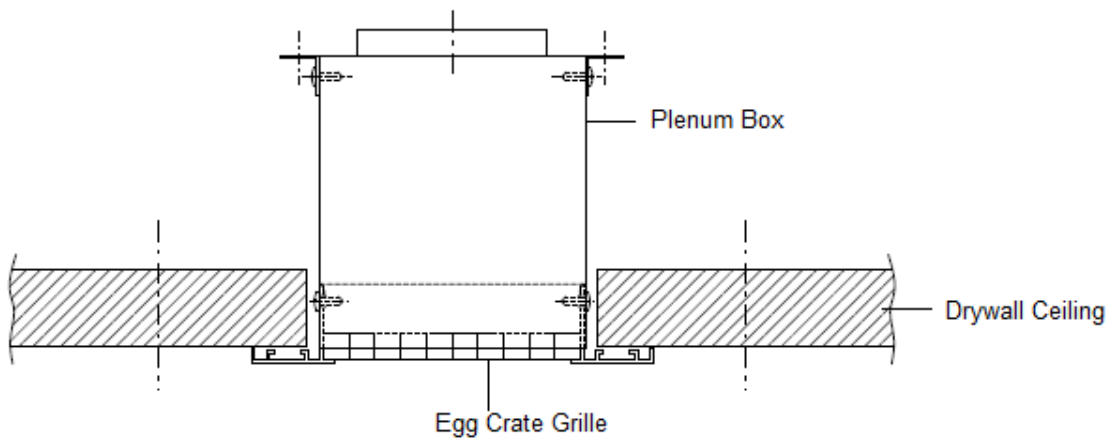


EGG CREAT GRILLE + PLENUM BOX
STANDARD CLIPS MOUNTING

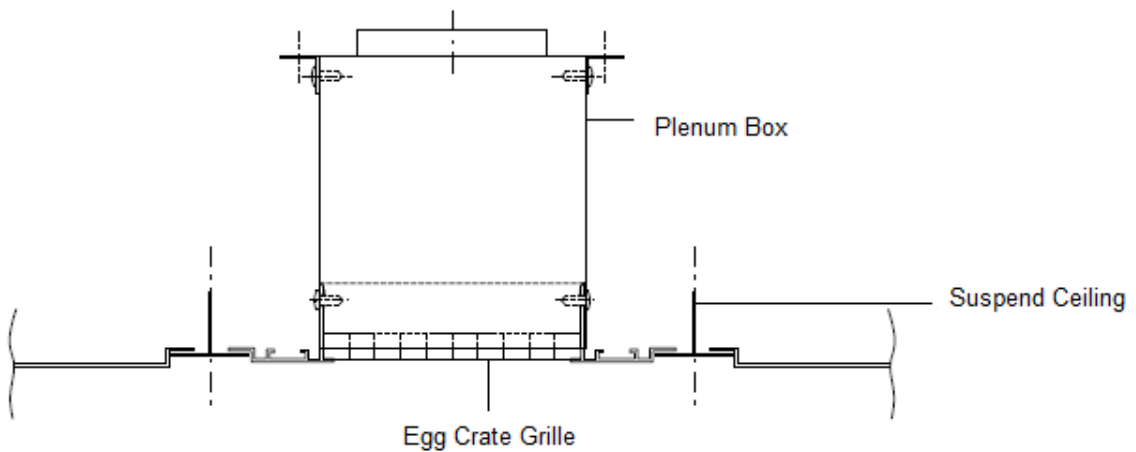


- 1- Plenum Box
- 2- Screw
- 3- Egg Creat Grille
- 4- Profil for Clips
- 5- Clips
- 6- Hook Pieces

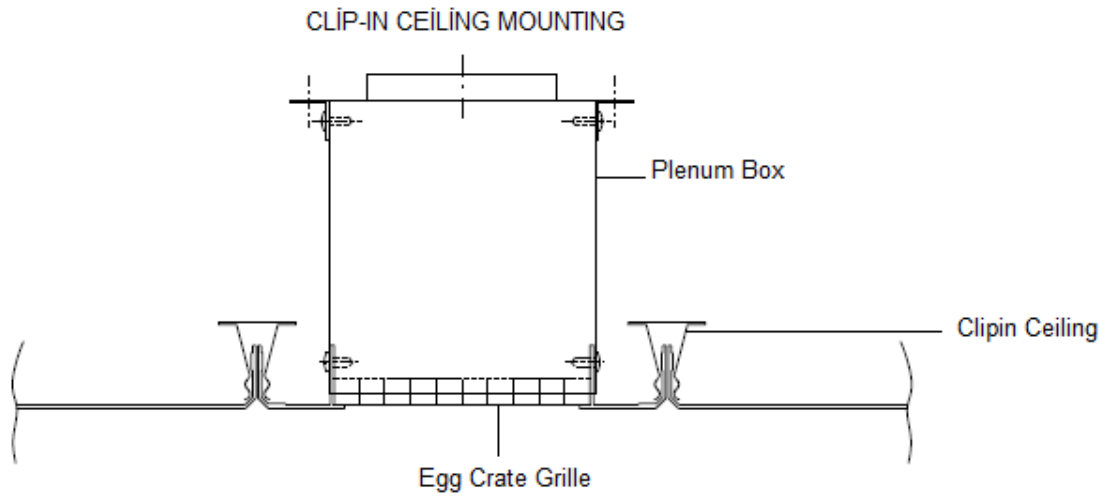
Drywal Ceiling Mounting



Suspend Ceiling Mounting



EGG CRATE GRILLE



ORDER CODE :

| | | | | | | |
|---|----|----|-----|--------|----|---|
| KPM - 12 | PL | 22 | 000 | FB9010 | SM | W 400X400 |
| 12mm Grid 22mm Grid | | | | | | W: Neck Size C: Frame Size |
| 00: Without accessories FL: Filter PL: Plenum Box | | | | | | 00: without Mounting VD: Screw Mounting KL: Clips Mounting ST: Spring Mounting |
| 22mm Frame = 22mm 32mm Frame = 32mm | | | | | | |
| 000: without Damper ZKD: Opposite Blade Damper PKD: ParalleL Blade Damper | | | | | | 00: without coating EL: Anodic Aluminium FB----: Powder Coated RAL |