



Hinged Filter Grille

Description

Eggcrate grilles are designed for applications requiring the handling of large air volumes and rapid air changes. With a free area of up to 90%, they are among the most efficient grille options for return air use and as intakes to air handling units.

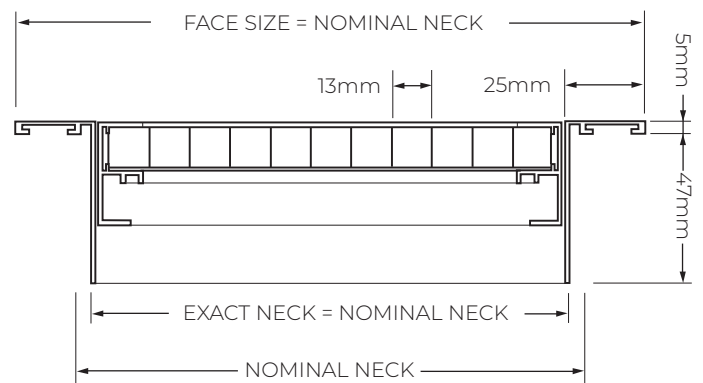
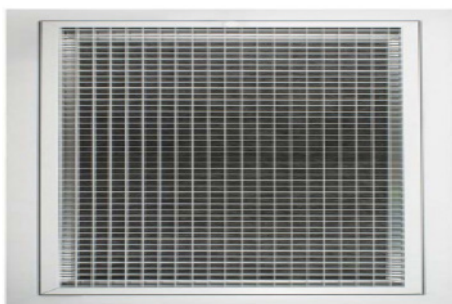
Construction

The frame is manufactured from extruded aluminium with mechanically joined corners. The aluminium core is secured by the frame design and is available in fixed, loose, removable, or hinged configurations.

Note: Powder coated white as standard

| Product Code | Exact Neck (mm) | Face Size X & Y (mm) |
|--------------|-----------------|----------------------|
| AGR1515 | 145 x 145 | 195 x 195 |
| AGR2020 | 195 x 195 | 240 x 240 |
| AGR2525 | 245 x 245 | 295 x 295 |
| AGR3535 | 345 x 345 | 340 x 340 |
| AGR4040 | 395 x 395 | 440 x 440 |
| AGR4545 | 445 x 445 | 485 x 485 |

| Product Code | Exact Neck (mm) | Face Size X & Y (mm) |
|--------------|-----------------|----------------------|
| AGR5555 | 545 x 545 | 595 x 595 |
| AGR7035 | 695 x 345 | 740 x 390 |
| AGR8040 | 795 x 395 | 840 x 440 |
| AGR9045 | 895 x 445 | 940 x 490 |
| AGR1260 | 1195 x 595 | 1240 x 640 |

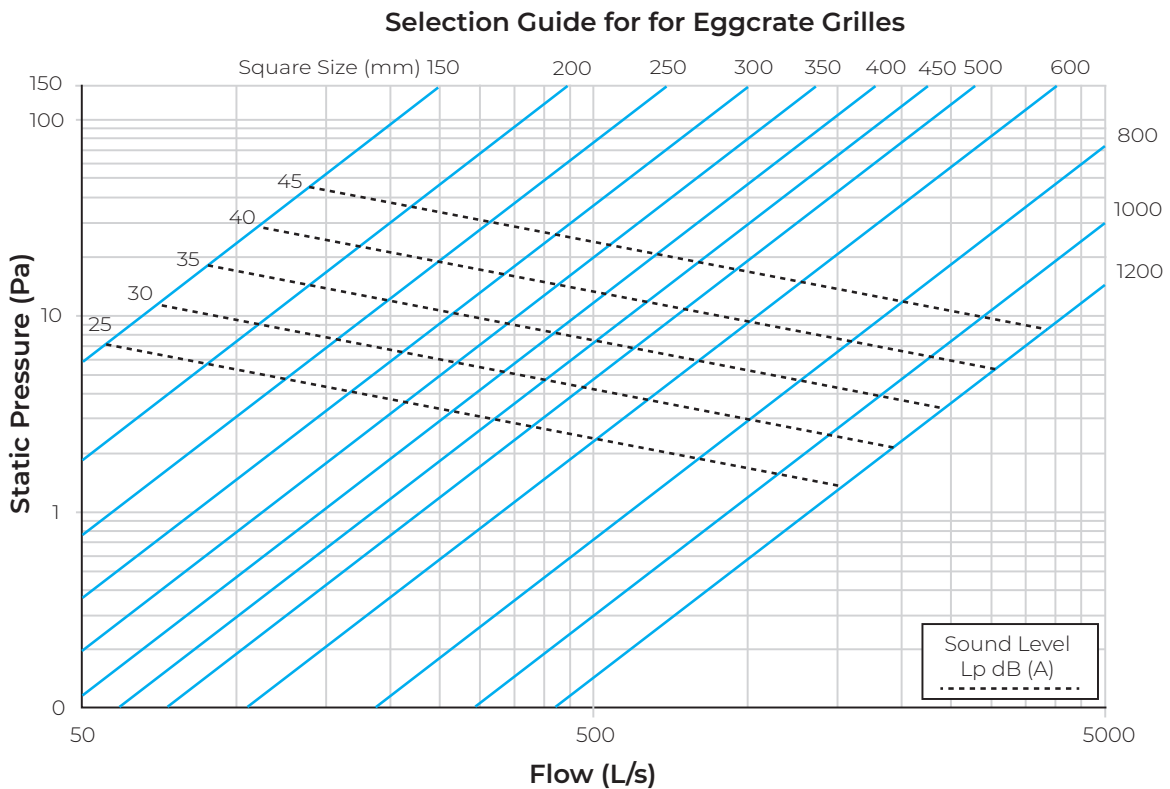


Performance Data

Performance data is measured under isothermal conditions with the grille installed in a ceiling at a height of 2.7 m above floor level.

Noise levels are calculated on the basis of a room absorption factor of 10 dB. All data is derived from grilles tested without additional filters.

Notes: Eggcrate grilles provide a free area greater than 90% of the nominal size, ensuring maximum airflow with minimal noise generation.



*These graphs are for selection only and should not be used for commissioning.

Hinged Eggcrate with Filter

| Product Code | Core Area | Face Velocity (m/s) | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 |
|--------------|-------------------|----------------------|------|------|------|------|------|------|------|------|
| | (m ²) | Static Pressure (Pa) | 2 | 4 | 6 | 9 | 12 | 1 | 24 | 35 |
| AGR1515 | 0.02 | Flow Rate (L/s) | 30 | 41 | 51 | 61 | 71 | 81 | 101 | 122 |
| | | Sound Level dB(A) | <20 | <20 | 24 | 28 | 31 | 34 | 39 | 43 |
| AGR2020 | 0.04 | Flow Rate (L/s) | 61 | 81 | 101 | 122 | 142 | 162 | 203 | 243 |
| | | Sound Level dB(A) | <20 | 22 | 27 | 31 | 34 | 37 | 42 | 46 |
| AGR2525 | 0.06 | Flow Rate (L/s) | 91 | 122 | 152 | 182 | 213 | 243 | 304 | 365 |
| | | Sound Level dB(A) | <20 | 24 | 29 | 33 | 36 | 39 | 44 | 48 |
| AGR3535 | 0.12 | Flow Rate (L/s) | 182 | 243 | 304 | 365 | 425 | 486 | 608 | 729 |
| | | Sound Level dB(A) | 21 | 27 | 32 | 36 | 39 | 42 | 47 | 51 |
| AGR4040 | 0.16 | Flow Rate (L/s) | 243 | 324 | 405 | 486 | 567 | 648 | 810 | 972 |
| | | Sound Level dB(A) | 22 | 28 | 33 | 37 | 40 | 43 | 48 | 52 |
| AGR4545 | 0.2 | Flow Rate (L/s) | 304 | 405 | 506 | 608 | 709 | 810 | 1013 | 1215 |
| | | Sound Level dB(A) | 23 | 30 | 34 | 38 | 42 | 45 | 49 | 53 |
| AGR5555 | 0.3 | Flow Rate (L/s) | 456 | 608 | 759 | 911 | 1063 | 1215 | 1519 | 1823 |
| | | Sound Level dB(A) | 25 | 31 | 36 | 40 | 43 | 46 | 51 | 55 |
| AGR7035 | 0.24 | Flow Rate (L/s) | 338 | 450 | 463 | 675 | 788 | 900 | 1125 | 1350 |
| | | Sound Level dB(A) | 23 | 30 | 34 | 38 | 42 | 45 | 49 | 53 |
| AGR8040 | 0.32 | Flow Rate (L/s) | 486 | 648 | 810 | 972 | 1134 | 1296 | 1620 | 1944 |
| | | Sound Level dB(A) | 25 | 32 | 37 | 40 | 44 | 47 | 52 | 56 |
| AGR9045 | 0.4 | Flow Rate (L/s) | 608 | 810 | 1013 | 1215 | 1418 | 1620 | 2025 | 2430 |
| | | Sound Level dB(A) | 26 | 32 | 37 | 41 | 44 | 47 | 52 | 56 |
| AGR1260 | 0.72 | Flow Rate (L/s) | 1094 | 1458 | 1823 | 2187 | 2552 | 2916 | 3645 | 4374 |
| | | Sound Level dB(A) | 28 | 35 | 40 | 43 | 47 | 50 | 55 | 59 |

