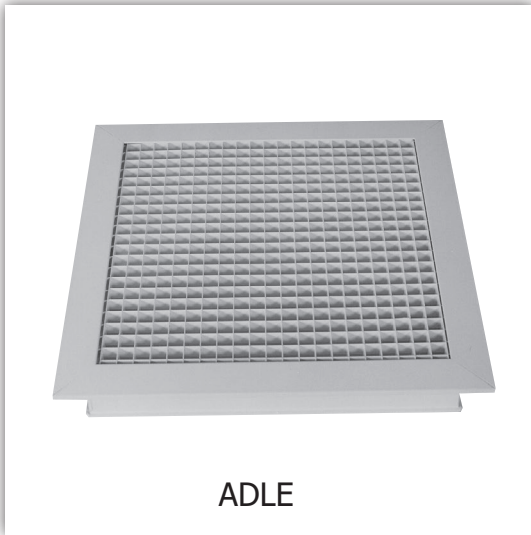


## EGGCRATE GRILLE Model ADLE



LAY-IN CORE

### APPLICATIONS

Industry standard extract grille.

With 90% free area these grilles can handle extremely high air volumes with minimal pressure drop and noise.

Framed core and clip in removable core options available (see pages 50 and 51).

45 degree eggcrate is available for exhaust and return air applications. The angled eggcrate results in blocking sight from most angles.

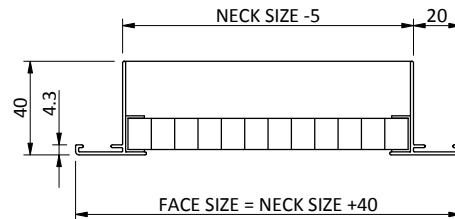
### FEATURES

Aluminium lightweight construction.

12mm cubed lattice core in extruded aluminium frame.

Standard finish powder coat satin white.

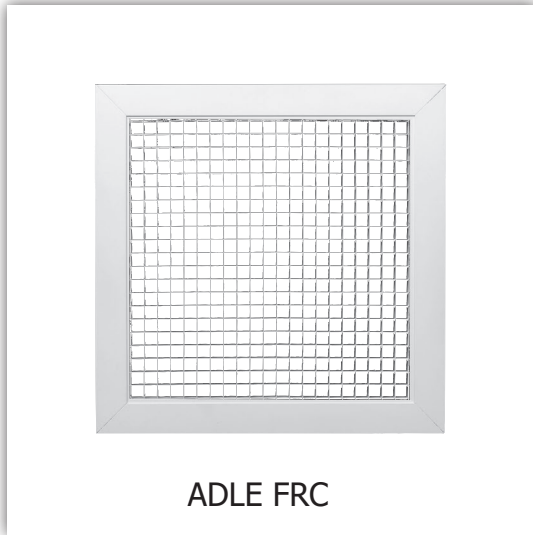
### DESIGN DETAILS (mm)



### STOCK SIZES (mm)

| Code   | Nominal Neck Size |
|--------|-------------------|
| LE1515 | 150 X 150         |
| LE2020 | 200 X 200         |
| LE2525 | 250 X 250         |
| LE3030 | 300 X 300         |
| LE3535 | 350 x 350         |
| LE4040 | 400 X 400         |
| LE4545 | 450 X 450         |
| LE5050 | 500 X 500         |
| LE5929 | 595 X 295 FACE    |
| LE5959 | 595 X 595 FACE    |
| LE6030 | 600 X 300         |
| LE6040 | 600 X 400         |
| LE9045 | 900 X 450         |
| LE9050 | 900 X 500         |
| LE9060 | 900 X 600         |
| LE1159 | 1195 X 595 FACE   |

## EGGCRATE GRILLE Model ADLE FRC



FRAMED LAY-IN CORE

### APPLICATIONS

Lay-in style with the eggcrate core contained in a concealed frame, specified particularly for commercial projects.

With 90% free area these grilles can handle extremely high air volumes with minimal pressure drop and noise.

Designed to fit any ceiling suspension.

This model is the same as the ADLE except it has a channel framing the eggcrate core.

45 degree eggcrate is available for exhaust and return air applications. The angled eggcrate results in blocking sight from most angles.

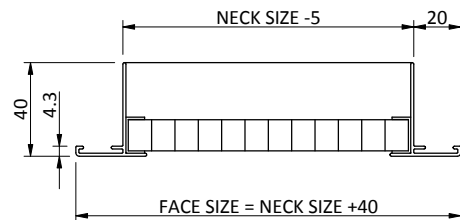
### FEATURES

Aluminium lightweight construction.

Single channel framed 12mm cubed lattice core in extruded aluminium frame.

Standard finish powder coat satin white.

### DESIGN DETAILS (mm)



### STOCK SIZES (mm)

| Code      | Nominal Neck Size |
|-----------|-------------------|
| LEFRC2525 | 250 X 250         |
| LEFRC3030 | 300 X 300         |
| LEFRC5959 | 595 X 595 FACE    |
| LEFRC1159 | 1195 X 1195 FACE  |

## EGGCRATE GRILLE Model ADLE COC



ADLE COC

CLIP OUT CORE (VIA FACE OF GRILLES)

### APPLICATIONS

The clip-out-core eggcrate grille is versatile for any application and provides flexibility with installation as it doesn't require depth behind the core of the grille to remove the core.

With 90% free area these grilles can handle extremely high air volumes with minimal pressure drop and noise.

Designed to fit any ceiling suspension.

45 degree eggcrate option is available to enable directional control in supply air applications. The angled eggcrate results in blocking sight from most angles.

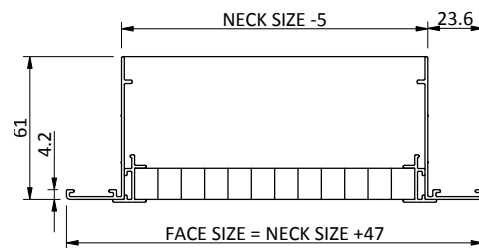
### FEATURES

Aluminium lightweight construction.

12mm cubed lattice core in extruded aluminium frame.

Standard finish powder coat satin white.

### DESIGN DETAILS (mm)



### STOCK SIZES (mm)

| Code    | Nominal Neck Size |
|---------|-------------------|
| LEC1515 | 150 X 150         |
| LEC2020 | 200 X 200         |
| LEC2525 | 250 X 250         |
| LEC3030 | 300 X 300         |



**EGGCRATE GRILLE  
Model ADLE**

| Performance                 |     |      |      |      |      |      |      |      |      |      |
|-----------------------------|-----|------|------|------|------|------|------|------|------|------|
| Core Velocity               | m/s | 1.5  | 2.0  | 2.5  | 3.0  | 3.5  | 4.0  | 5.0  | 6.0  | 7.0  |
| Static Pressure             | Pa  | 2.8  | 5.0  | 7.8  | 11.2 | 15.3 | 20   | 31   | 45   | 61   |
| Air Volume and Noise Rating |     |      |      |      |      |      |      |      |      |      |
| 150 x 150                   | L/s | 30   | 40   | 50   | 60   | 70   | 80   | 100  | 120  | 140  |
| 200 x 100                   | NR  |      |      |      |      | 21   | 24   | 30   | 36   | 42   |
| 200 x 150                   | L/s | 45   | 60   | 75   | 90   | 105  | 120  | 150  | 180  | 210  |
| 300 x 100                   | NR  |      |      |      |      | 23   | 26   | 32   | 39   | 45   |
| 300 x 150                   | L/s | 68   | 90   | 113  | 135  | 158  | 180  | 225  | 270  | 315  |
| 200 x 200                   | NR  |      |      |      | 20   | 23   | 26   | 33   | 39   | 46   |
| 250 x 250                   | L/s | 90   | 120  | 150  | 180  | 210  | 240  | 300  | 360  | 420  |
| 300 x 200                   | NR  |      |      |      | 20   | 24   | 27   | 34   | 40   | 47   |
| 300 x 300                   | L/s | 135  | 180  | 225  | 270  | 315  | 360  | 450  | 540  | 630  |
| 600 x 150                   | NR  |      |      | 17   | 20   | 24   | 27   | 34   | 41   | 48   |
| 450 x 300                   | L/s | 203  | 270  | 338  | 405  | 473  | 540  | 675  | 810  | 945  |
| 400 x 350                   | NR  |      |      | 18   | 21   | 25   | 29   | 36   | 43   | 50   |
| 400 x 400                   | L/s | 240  | 320  | 400  | 480  | 560  | 640  | 800  | 960  | 1120 |
| 600 x 250                   | NR  |      |      | 19   | 22   | 26   | 30   | 37   | 45   | 52   |
| 500 x 350                   | L/s | 270  | 360  | 450  | 540  | 630  | 720  | 900  | 1080 | 1260 |
| 600 x 300                   | NR  |      |      | 19   | 23   | 27   | 31   | 39   | 46   | 54   |
| 500 x 400                   | L/s | 300  | 400  | 500  | 600  | 700  | 800  | 1000 | 1200 | 1400 |
|                             | NR  |      |      | 20   | 24   | 28   | 31   | 39   | 47   | 55   |
| 600 x 400                   | L/s | 360  | 480  | 600  | 720  | 840  | 960  | 1200 | 1440 | 1680 |
|                             | NR  |      |      | 20   | 24   | 28   | 32   | 40   | 47   | 55   |
| 600 x 500                   | L/s | 450  | 600  | 750  | 900  | 1050 | 1200 | 1500 | 1800 | 2100 |
|                             | NR  |      |      | 20   | 24   | 28   | 32   | 40   | 48   | 56   |
| 900 x 400                   | L/s | 540  | 720  | 900  | 1080 | 1260 | 1440 | 1800 | 2160 | 2520 |
|                             | NR  |      |      | 20   | 24   | 28   | 32   | 41   | 49   | 57   |
| 750 x 600                   | L/s | 675  | 900  | 1125 | 1350 | 1575 | 1800 | 2250 | 2700 | 3150 |
|                             | NR  |      |      | 21   | 25   | 29   | 33   | 41   | 49   | 57   |
| 900 x 600                   | L/s | 810  | 1080 | 1350 | 1620 | 1890 | 2160 | 2700 | 3240 | 3780 |
|                             | NR  |      |      | 21   | 25   | 29   | 33   | 42   | 50   | 58   |
| 1200 x 500                  | L/s | 900  | 1200 | 1500 | 1800 | 2100 | 2400 | 3000 | 3600 | 4200 |
|                             | NR  |      |      | 21   | 25   | 30   | 34   | 42   | 51   | 59   |
| 1200 x 600                  | L/s | 1080 | 1440 | 1800 | 2160 | 2520 | 2880 | 3600 | 4320 | 5040 |
|                             | NR  |      |      | 21   | 26   | 30   | 34   | 43   | 51   | 60   |

Nominal Size - Millimetres      Air Volume - Litres per second      Core Velocity - Metres per second      Static Pressure - Pascal

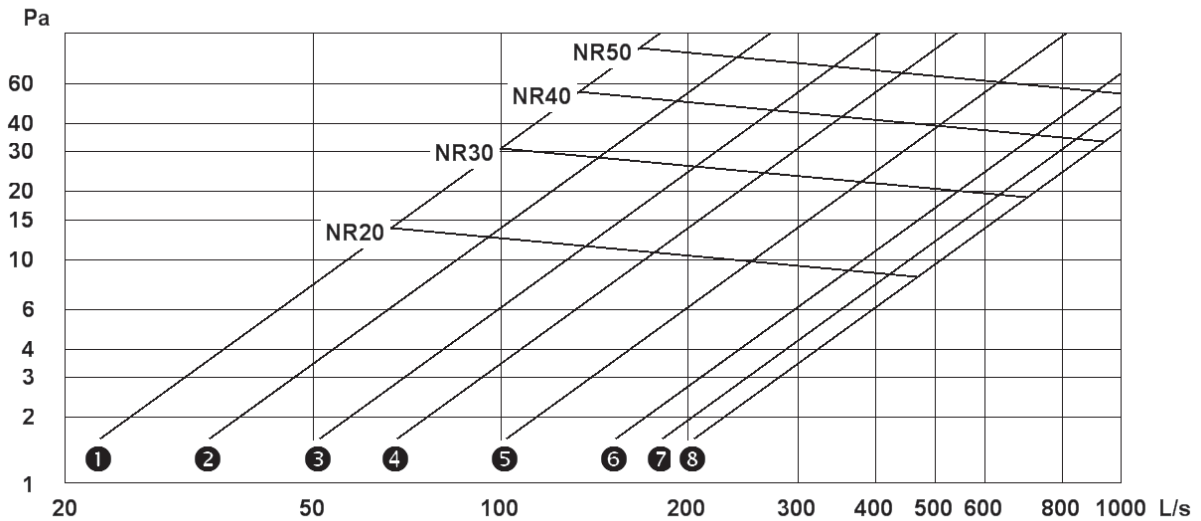
**Recommended Noise Levels**

| Typical Applications | Noise Rating NR |
|----------------------|-----------------|
| Bedroom / Auditorium | 25-30           |
| Private Office       | 35-40           |
| General Office       | 40-45           |
| Light Industrial     | 50-60           |



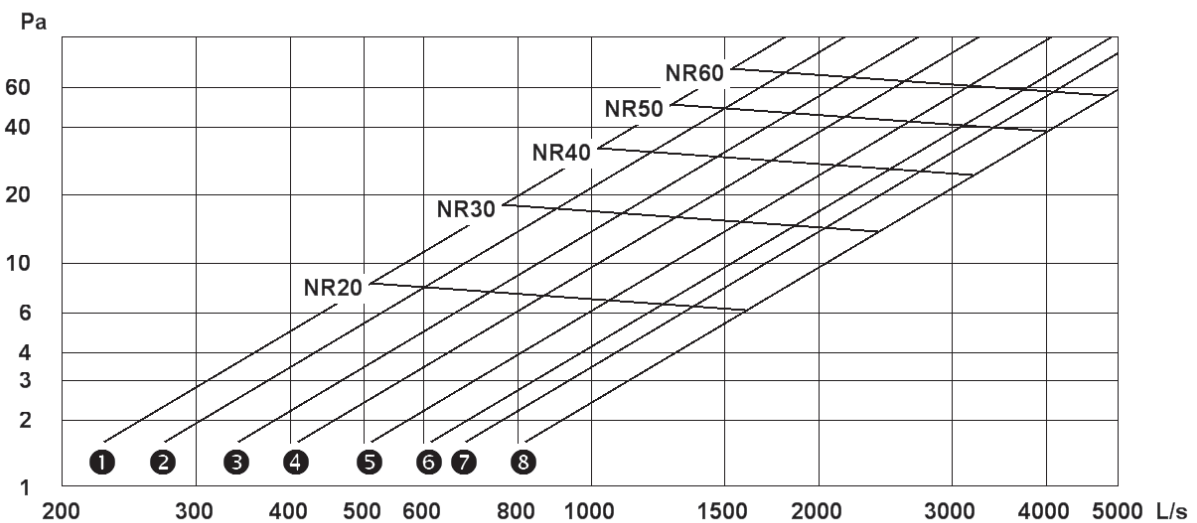
EGGCRATE GRILLE  
Model ADLE

Eggcrate Grilles



Nominal Neck Size

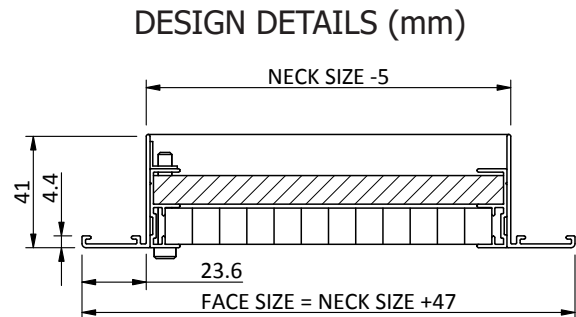
- ①  
150x150
- ②  
200x150
- ③  
300x150
- ④  
250x250
- ⑤  
300x300
- ⑥  
450x300
- ⑦  
400x400
- ⑧  
500x350



Nominal Neck Size

- ①  
500x400
- ②  
600x400
- ③  
600x500
- ④  
900x400
- ⑤  
750x600
- ⑥  
900x600
- ⑦  
1200x500
- ⑧  
1200x600

## RETURN AIR GRILLE REMOVABLE CORE WITH FILTER Model ADHEF



### Stock Sizes

| Code   | Nominal Neck Size |
|--------|-------------------|
| HE3030 | 300 X 300         |
| HE3535 | 350 X 350         |
| HE4040 | 400 X 400         |
| HE4545 | 450 X 450         |
| HE5040 | 500 X 400         |
| HE5929 | 595 X 295 FACE    |
| HE5959 | 595 X 595 FACE    |
| HE6040 | 600 X 400         |
| HE6045 | 600 X 450         |
| HE6050 | 600 X 500         |
| HE7040 | 700 X 400         |
| HE7045 | 700 X 450         |
| HE7050 | 700 X 500         |
| HE7540 | 750 X 400         |
| HE7545 | 750 X 450         |
| HE7550 | 750 X 500         |
| HE7555 | 750 X 550         |
| HE8050 | 800 X 500         |
| HE8060 | 800 X 600         |
| HE8065 | 800 X 650         |
| HE9040 | 900 X 400         |
| HE9045 | 900 X 450         |
| HE9050 | 900 X 500         |
| HE9055 | 900 X 550         |
| HE9060 | 900 X 600         |
| HE1159 | 1195 X 595 FACE   |
| HE1240 | 1200 X 400        |

### APPLICATIONS

The industry standard domestic return air grille, typically installed in ceilings but can also be wall mounted.

Thumbscrew/s located on the face of the grille secure the core in place.

A slide panel filter is fitted to the rear of the core to prevent dust from entering the return air duct.

The core can be completely removed from the outer frame for easy installation and cleaning as required.

Some units indicate when the filter should be cleaned/changed depending on use. If not, we suggest at least every 6 months in domestic applications.

### FEATURES

Aluminium lightweight construction.

Constructed of 12mm cubed lattice core eggcrate in extruded frame.

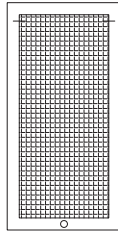
Filter (supplied as standard) removable for easy cleaning.

Standard finish powder coat satin white.

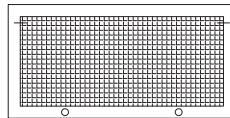
## RETURN AIR GRILLE REMOVABLE CORE WITH FILTER Model ADHEF

When ordering please take note:

As a standard thumbscrews are located on the short side.



Alternatively, if required, thumbscrews can be located on the long side (needs to be specified at time of order).



| Nominal Neck Size       | Neck Area sqm | Air Flow (L/s) for Core Velocity |          |       |         |
|-------------------------|---------------|----------------------------------|----------|-------|---------|
|                         |               | 1.5 m/s                          | 1.75 m/s | 2 m/s | 2.5 m/s |
| 300 x 300               | 0.09          | 79                               | 93       | 106   | 132     |
| 400 x 350               | 0.14          | 139                              | 162      | 185   | 231     |
| 500 x 350<br>600 x 300  | 0.18          | 181                              | 211      | 241   | 301     |
| 500 x 400<br>450 x 450  | 0.20          | 213                              | 248      | 284   | 355     |
| 600 x 400<br>500 x 450  | 0.24          | 262                              | 306      | 350   | 437     |
| 600 x 500<br>750 x 400  | 0.30          | 342                              | 399      | 456   | 570     |
| 900 x 400<br>600 x 600  | 0.36          | 411                              | 479      | 548   | 685     |
| 750 x 600               | 0.45          | 541                              | 631      | 721   | 901     |
| 1200 x 400              | 0.48          | 559                              | 653      | 746   | 932     |
| 900 x 600<br>1200 x 450 | 0.54          | 660                              | 770      | 880   | 1100    |
| 1200 x 500              | 0.60          | 729                              | 850      | 972   | 1215    |

| TEST FIGURES          |                |                |
|-----------------------|----------------|----------------|
| Media Type            | TM50           | TM30           |
| Face Velocity         | 1.75m/s        | 1.78m/s        |
| Arrestance #4 Dust    | 72.8%          | 60.5%          |
| Initial Resistance    | 20 Pa          | 13 Pa          |
| Dust Holding Capacity | 16.7kg/m_@62Pa | 1.4kg/m_@ 39Pa |

NOTE:  
Select grille size to suit filter face velocity.  
Filter performance at a velocity greater 1.8m/s is not guaranteed.