

# Aluminium Door Relief Grille Technical Data



## General

|                 |                |
|-----------------|----------------|
| Ventilator Type | Passive Grille |
|-----------------|----------------|

## Material

| Component   | Material           |
|-------------|--------------------|
| Vent        | Anodised Aluminium |
| Spring Clip | Steel              |

## Applicable Product Codes

| Size      | Product Code | Description           |
|-----------|--------------|-----------------------|
| 300x150mm | DRG3015      | 300x150mm Door Grille |
| 600x150mm | DRG6015      | 600x150mm Door Grille |
| 600x200mm | DRG6020      | 600x200mm Door Grille |
| 600x300mm | DRG6030      | 600x300mm Door Grille |
| 600x450mm | DRG6045      | 600x450mm Door Grille |



## Dimensions

| Product Code | Face Size   | Weight | Open Area               | Neck Size    |
|--------------|-------------|--------|-------------------------|--------------|
| DRG3015      | 335 x 185mm | 390g   | 34,153 mm <sup>2</sup>  | 287 x 145mm  |
| DRG6015      | 635x185mm   | 1005g  | 69,853 mm <sup>2</sup>  | 587 x 146 mm |
| DRG6020      | 635x235mm   | 1025g  | 99,790 mm <sup>2</sup>  | 587 x 195 mm |
| DRG6030      | 635x335mm   | 1065g  | 139,706 mm <sup>2</sup> | 587 x 295 mm |
| DRG6045      | 635x485mm   | 2250g  | 209,599 mm <sup>2</sup> | 587 x 445 mm |

## Cut out size

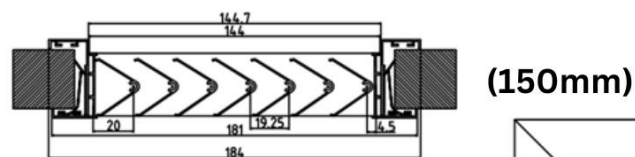
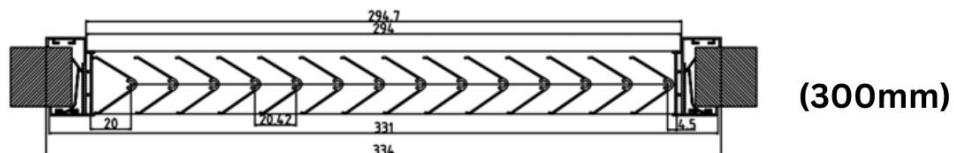
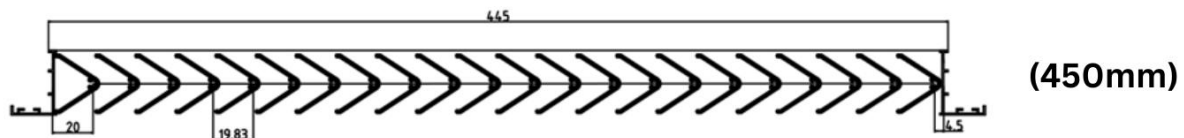
The size of the cut-out recommended is the size of the neck diameter (as per above table). Do not make the hole more than 5mm greater than the neck size. Tighter fit prevents rattling. The total depth (packed) is 39mm.

## Door Thickness

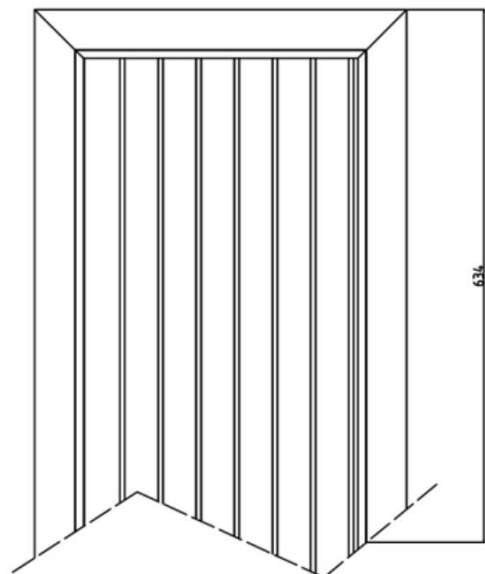
Grilles fit doors from 30mm to 50mm in thickness.



5 Amay Crescent, Ferntree Gully Vic 3156  
P | 03 9758 7844 F | 03 9758 7804  
E | [enquiries@partnerpacific.com](mailto:enquiries@partnerpacific.com)



| SIZE | HOLE SPACING | BLADES |
|------|--------------|--------|
| 150  | 19           | 7      |
| 200  | 19           | 9      |
| 300  | 20.4         | 14     |
| 450  | 20           | 22     |



## Performance Data

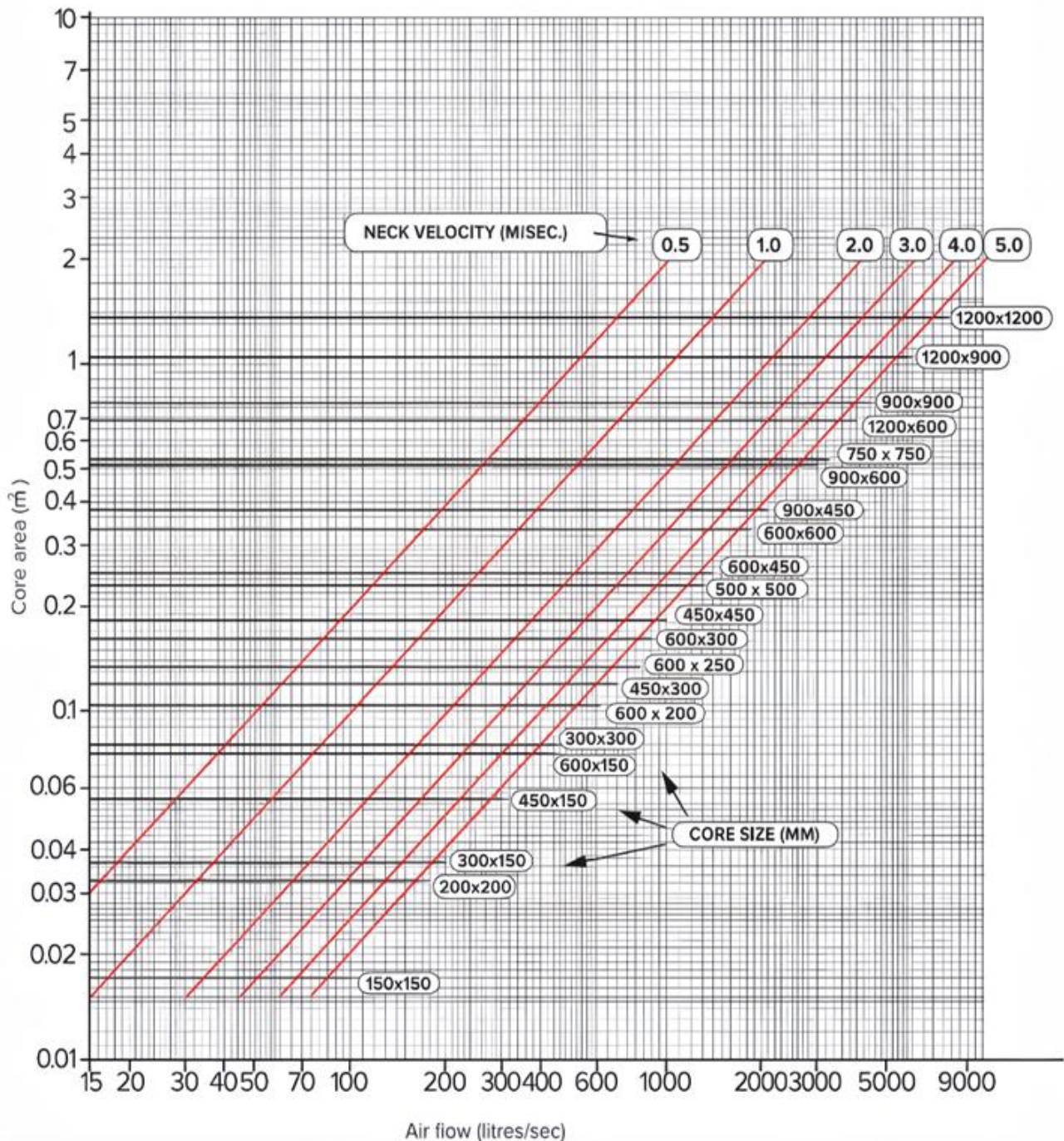
### Static pressure (PA) at various air quantities G neck areas

| Typical Neck Sizes:        | 300x150 | 450x150 | 600x150 | 600x200 | 450x300 | 600x250 | 600x300 | 450x450 | 600x450 | 600x600 |
|----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Neck Area M <sup>2</sup> : | 0.045   | 0.068   | 0.090   | 0.120   | 0.135   | 0.150   | 0.180   | 0.203   | 0.270   | 0.360   |
| L/s 30                     |         |         |         |         |         |         |         |         |         |         |
| L/s 50                     | 13      |         |         |         |         |         |         |         |         |         |
| L/s 75                     | 35      | 15      | 9       |         |         |         |         |         |         |         |
| L/s 100                    | 90      | 40      | 22      | 12      | 8       | 6       |         |         |         |         |
| L/s 150                    |         | 62      | 35      | 18      | 14      | 12      | 8       | 5       |         |         |
| L/s 200                    |         |         | 82      | 40      | 30      | 25      | 17      | 13      | 8       |         |
| L/s 250                    |         |         |         | 75      | 55      | 45      | 30      | 24      | 13      | 8       |
| L/s 300                    |         |         |         |         | 85      | 70      | 45      | 37      | 20      | 12      |
| L/s 400                    |         |         |         |         |         | 100     | 68      | 52      | 28      | 17      |
| L/s 500                    |         |         |         |         |         |         |         | 90      | 50      | 30      |
| L/s 600                    |         |         |         |         |         |         |         |         | 88      | 45      |

### Various neck velocities given airflow V neck area

| Typical Sizes                   | 300x150 | 450x150 | 600x150 | 600x200 | 450x300 | 600x250 | 600x300 | 450x450 | 600x450 | 600x600 |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Neck Area M <sup>2</sup><br>L/S | 0.045   | 0.068   | 0.090   | 0.120   | 0.135   | 0.150   | 0.180   | 0.203   | 0.270   | 0.360   |
| 30                              | 0.75    | 0.50    |         |         |         |         |         |         |         |         |
| 50                              | 1.50    |         | 0.60    | 0.50    |         |         |         |         |         |         |
| 75                              | 2.25    | 1.50    | 1.00    |         | 0.60    | 0.50    |         |         |         |         |
| 100                             | 2.75    | 2.00    | 1.50    | 1.00    |         |         | 0.60    | 0.50    |         |         |
| 150                             | 4.00    | 2.75    | 2.00    | 1.50    | 1.25    | 1.10    | 0.90    |         |         |         |
| 200                             | 5.50    | 3.75    | 2.75    | 2.00    | 1.75    | 1.50    | 1.25    | 1.10    | 0.50    |         |
| 250                             |         | 4.50    | 3.00    | 2.75    | 2.00    | 1.75    | 1.50    | 1.40    | 1.00    | 0.75    |
| 300                             |         | 5.50    | 4.00    | 3.50    | 2.50    | 2.25    | 1.90    | 1.75    | 1.25    |         |
| 400                             |         |         | 5.00    | 4.00    | 3.50    | 3.00    | 2.50    | 2.25    | 1.75    | 1.25    |
| 500                             |         |         |         | 5.00    | 4.00    | 3.75    | 3.00    | 2.75    | 2.00    | 1.50    |
| 600                             |         |         |         |         | 5.00    | 4.75    | 3.75    | 3.25    | 2.50    | 1.75    |
| 750                             |         |         |         |         |         |         | 5.00    | 4.50    | 3.00    | 2.50    |
| 1000                            |         |         |         |         |         |         |         |         | 4.00    | 3.00    |
| 1500                            |         |         |         |         |         |         |         |         |         | 4.50    |

Static pressure vs. airflow for various core sizes.



## **Conditions of Storage, Maintenance and Use**

Keep stored in a dry area.

Do not attempt repair or maintenance without contacting Partner Pacific

## **Limitations of Use**

Do not use for exhausting hazardous or explosive materials

## **Warranty**

This product has a 5-year manufacturer's replacement warranty against manufacturing faults and defects.