

# M Lever-operated Grilles

1HM One set of horizontal damper blades

1VM One set of vertical linked damper blades

2HM Front individually adjustable horizontal blades

2VM Front individually adjustable vertical blades



## Lever-operated Adjustable Blade Grilles

1HM / 1VM / 2HM / 2VM

### Introduction

The Waterloo Series M grille range features a linked multi-blade damper (open/closed position) which doubles as a set of adjustable blades (for directional air control). These grilles are typically used for domestic projects but have wider commercial applications where practical on/off air control or spot cooling/heating are necessary.

The damper and directional blades may be visible or they can be incorporated behind a set of fixed or adjustable blades.

### Product Description

- 1HM** One set of horizontal linked multi-shutter damper blades
- 1VM** One set of vertical linked multi-shutter damper blades
- 2HM** Front individually adjustable horizontal blades plus rear multi-shutter damper
- 2VM** Front individually adjustable vertical blades plus rear multi-shutter damper
- Others** Cores from series 3 and Airline range with rear multi-shutter damper (Please refer to the Grille catalogue for full Specification pages 12 and 14)

### Features

- Manually operable face lever
- Fully open to closed damper facility
- Wide variety core/blade styles available
- Multi-blade directional control of air
- High quality aluminium construction

### Finishes

PPG9010 (RAL 9010 Gloss - 80% Gloss White)

PPM9010 (RAL 9010 Matt - 20% Gloss White)

PPM9006 (RAL 9006 Matt - 30% Gloss Silver)

Other colours available on request

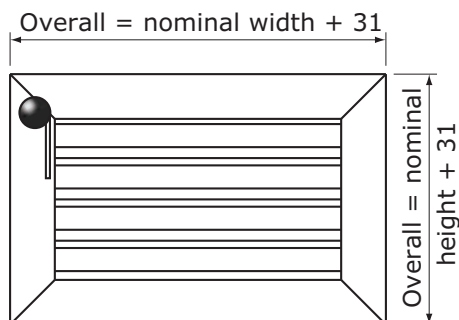
### Selection

Use series 1 & 2 or Airline selection nomograms plus damper correction

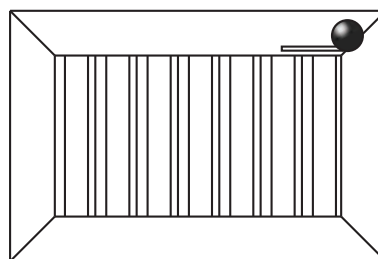
### Sizes

Units are available in the following standard sizes (width x height)

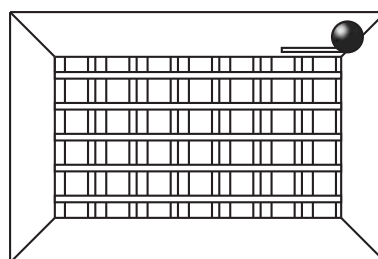
1HM, 2VM	All others
200 x 200	200 x 200
300 x 200	300 x 200
500 x 200	300 x 300
300 x 300	300 x 500
500 x 300	



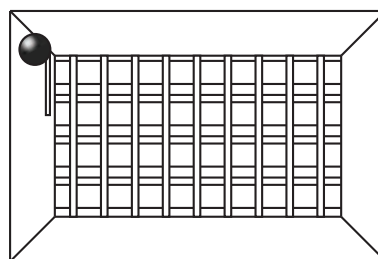
1HM



1VM

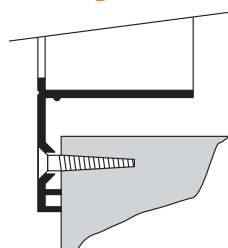


2HM



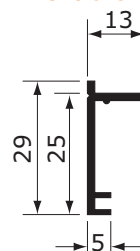
2VM

### Fixing

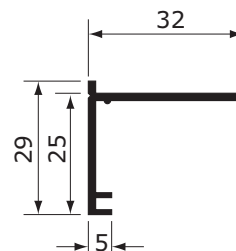


Screw fix (SF) only

### Borders



Type 1HM, 1VM



All other types

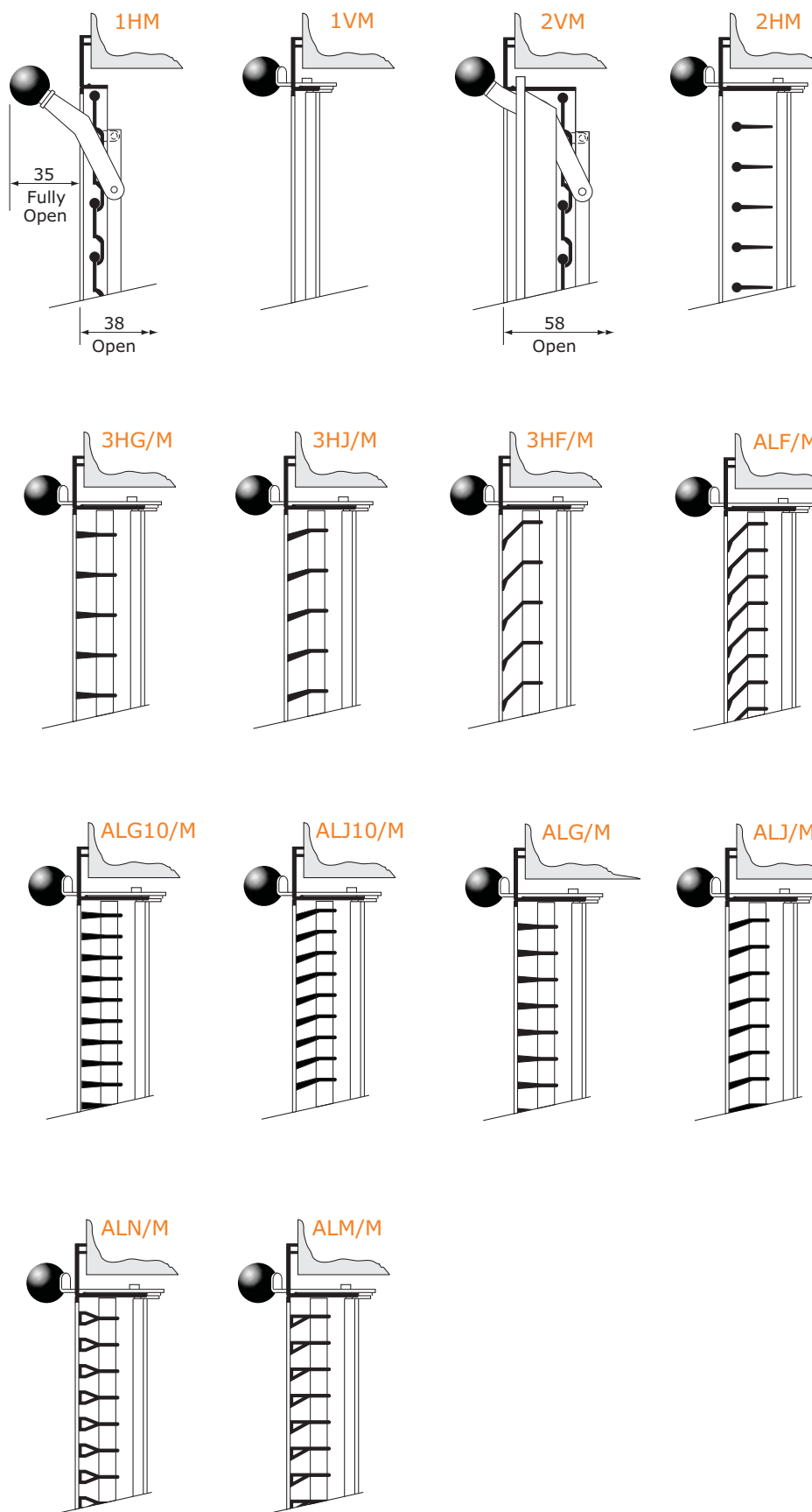
### ORDER EXAMPLE

1HM/300/300/R25/SF/9010-Matt

Type	1HM
Length	300
Width	300
Border	R25
Fixing (Screw Fix as standard)	SF
Finish	9010-Matt

## Lever-operated Adjustable Blade Grilles

1HM / 1VM / 2HM / 2VM



# Notes



# Waterloo Product Range

## Waterloo Product Range

### GRILLES

A complete range of products suitable for all wall, ceiling and floor applications. Most grilles are made from aluminium and have a range of fixed or moveable blades designed to give performance whilst remaining aesthetically pleasing to the eye. Grilles are made to customer specified sizes and colours (PPM/G); standard colour PPM9010 (20% Gloss White). The range is complemented by the Aircell range of polymer Grilles.



### DIFFUSERS

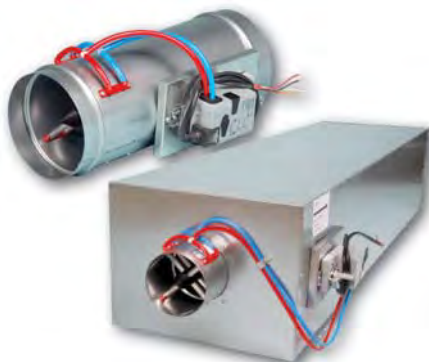
Designed to be installed in various ceiling systems, we have a complete range to suit both performance and aesthetical requirements. Most diffusers are made from aluminium and can be ordered with or without plenum boxes for easy duct work. Diffusers can be ordered in customer specified colours (PPM/G); standard colour is PPM 9010 (20% Gloss White). This range is complemented by the Aircell range of polymer Diffusers.



### ACTIVE AND PASSIVE CHILLED BEAMS

The finest quality range of high output active beams, used for ventilated heating and cooling applications. These units have 4 pipe coils to allow heating and cooling circuits to run simultaneously, giving constant and responsive control. The design allows a large optimum capacity and also allows the customer to specify the nozzle type and pitch for individual circumstances.

Active beams are made from steel to a large range of customer specified sizes and as such are suitable for various different ceiling systems. Standard finish is PPM 9010, however other (PPM/G) colours are available on request.



### AIR VOLUME CONTROL DAMPERS

Pressure independent Variable Air Volume and Constant Air Volume dampers made from zintec plate. Most volume dampers are regulated with an electronic motor and sensors and are calibrated to customer specifications before delivery.

The Constant Air Volume damper requires no power source as it is controlled via a mechanical device and calibrated before delivery. All volume dampers can be ordered with a single or double (insulation) skin.



### EXTERNAL LOUVRES

A quality range of products for external wall applications. Made from aluminium, with birdscreen or insect screen options. All louvres are made to customer specified sizes and (PPM/G) colours; standard colour is PPM 9006.



### DISPLACEMENT

A full range of recessed, semi-recessed, floor, wall and corner units providing high ventilation efficiency and excellent comfort. The very low pressure involved also offer quiet installations. Displacement units are available as wall or floor mounted, or indeed integrated within the architectural design.



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