

waterloo



Heavy Duty Floor Grille Tile Replacement

HDFG Extra heavy duty floor grille





Heavy Duty Floor Grille - Tile Replacement

HDFG

Introduction

The Waterloo HDFG Heavy Duty Floor Grille has been designed for commercial and industrial applications where heavy foot traffic is experienced. The HDFG is a 600mm tile replacement, structurally complying to the Extra Heavy Duty Class of BS EN 13264-2001.

Product Description

- HDFG Extra heavy duty floor grille, tile replacement.
- OBSS Opposed blade damper
- HMD Low height hit-and-miss damper
- BL Blanking plate

Features

- Tested to, and complied with, BS EN 13264-2001 Ventilation for Buildings - Floor mounted Air Terminal Devices - Test for Structural Classification - Extra Heavy Structural Class.
- Improved additional strength design.
- Suitable for most pedestal flooring systems.
- Easy "Drop in" installation.
- Two choices of damper, including low height version
- Convenient damper adjustment.
- Dampers and blanking plate can be supplied factory-fitted, or can be retro-fitted on site if necessary.

Floor compatibility

- Matches most raised floor systems based upon 600mm x 600mm module.
- Configurable to match floor thickness's 30mm to 50mm.

Finish

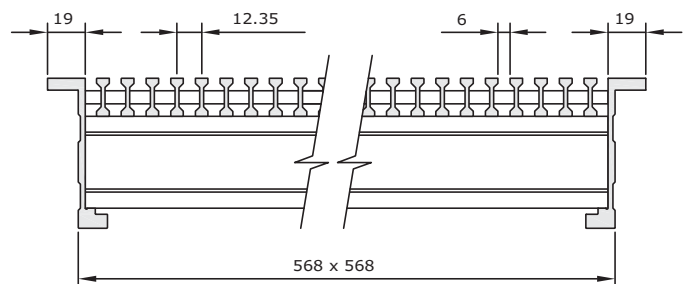
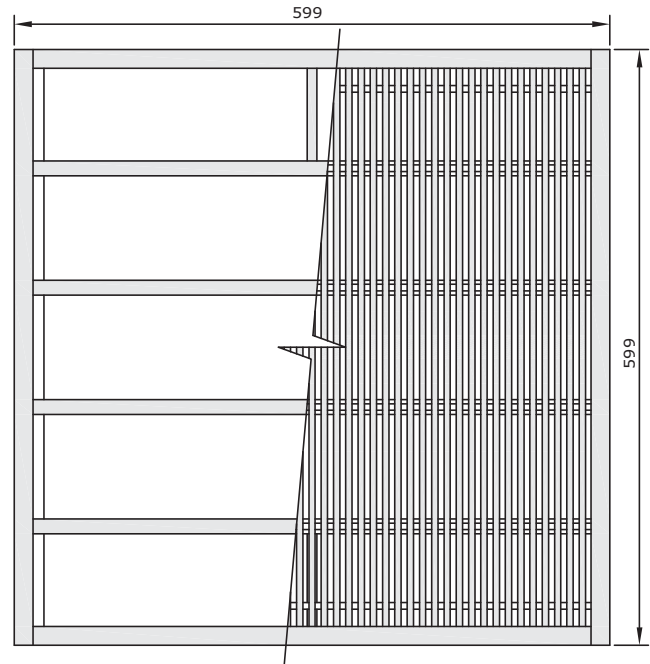
- Mill finish as standard.
- Powder or anti-static nylon coating options available on request.

Weights

- HDFG 10 kg per grille
- OBSS 9.5 kg/m² face area

Sizes

Nominal 600mm x 600mm tile replacement (599mm x 599mm actual).



Free Area
33%

ORDER EXAMPLE

HDFG/38/MILL/OBSS

Type _____

Floor Thickness _____

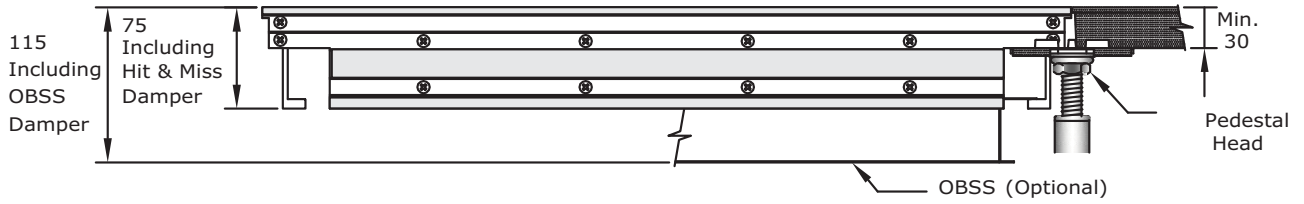
Finish _____

Option _____



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HDFG 600x600 Tile Replacement						
Flow rate (l/s)		No Damper	OBSS 100%	OBSS 50%	H & M 100%	H & M 50%
100	T	0.6	0.7	0.9	0.8	1.1
	P _s	1	2	4	3	5
	L _w	<20	<20	20	<20	21
200	T	1.1	1.2	1.7	1.5	2.0
	P _s	3	4	6	5	9
	L _w	<20	<20	21	21	23
300	T	1.9	2.0	2.7	2.4	3.2
	P _s	5	6	13	12	22
	L _w	21	21	25	25	31
400	T	3.0	3.2	3.9	3.6	4.4
	P _s	9	10	25	23	40
	L _w	27	28	33	32	41-
500	T	4.2	4.4	5.1	4.9	-
	P _s	13	15	40	34	-
	L _w	34	36	41	20	-
600	T	5.6	5.9	-	-	-
	P _s	17	22	-	-	-
	L _w	42	44	-	-	-

$\Delta T = 6^{\circ}C$
Throw (m) at 0.25 m/s



Control Options - Grille Mounted OBSS Opposed Blade Damper (Volume Control Damper)

Introduction

Waterloo OB Opposed Blade Dampers are manufactured to suit virtually the whole of our square / rectangular Air Terminal range and can be fitted to the neck of the terminals or inside plenum box.

They are adjustable from the front of the Grille or Diffuser with a screwdriver as standard, but are also available with cord- or lever-operation.

Manufactured with linked aluminium extruded blades, in sizes to suit any Waterloo Grille or Diffuser, they are useful for fine airflow regulation and can be adjusted from fully open to closed low-leakage position.

Product Description

- OBSS** Opposed Blade Damper, Screwdriver operated
- OBCO** Opposed Blade Damper, Cord operated
- OBSL** Opposed Blade Damper, Short Lever operated
- OBLL** Opposed Blade Damper, Long Lever operated
- BLACK** Painted black to prevent through vision

Features

- Linked aluminium extrusions for limited extra weight
- Large choice of adjustments to suit any configuration
- Can be fitted to virtually any Waterloo Grille or Diffuser

Finishes

Extruded aluminium blades

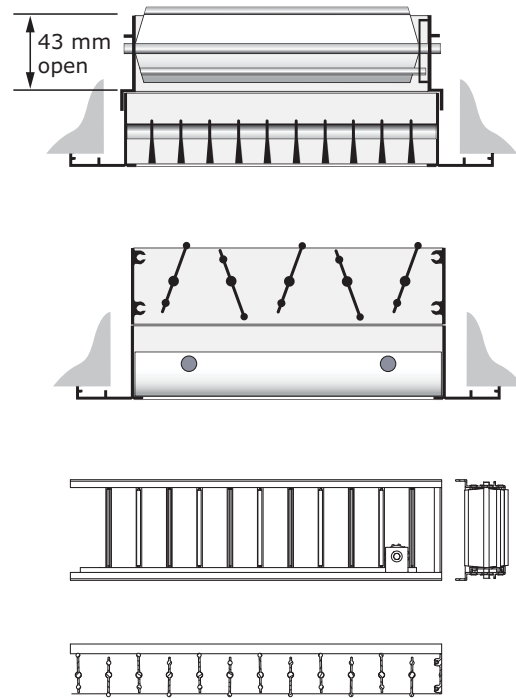
Sizes

Minimum Size - 100 x 75

Minimum Size for Plasterline - 100 x 50

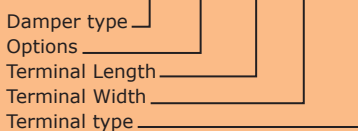
Maximum Size - single section 800x600mm

Multiple sections will be banked to accommodate larger terminal sizes.



ORDER EXAMPLE

OBSS/Black/600/200/For ALN





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

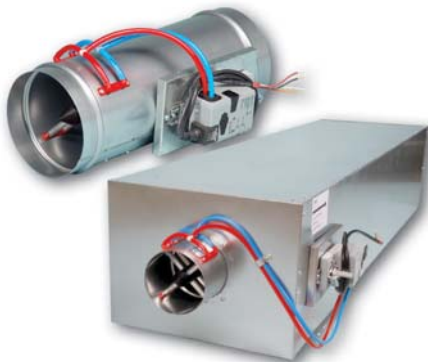
Designed to be installed in various ceiling systems, we have a complete range to suit both performance and aesthetical requirements. Most diffusers are made from aluminium and can be ordered with or without plenum chambers for easy duct work. Diffusers can be ordered in customer specified colours (PPM/G); 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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