

Heavy Duty Floor Grille (HDFG)

Heavy duty floor grille designed to fit 600x 600mm floor module



Quick Facts

- Tested to BS EN 13264-2001 Ventilation for buildings- Floor mounted air terminal devices- Test for structural classification- Extra heavy structural class
- Simple 'drop-in' design specifically for 600x 600mm floor module replacement
- Suitable for most raised floor pedestal systems
- Dampers or blanking plates available to suit airflow distribution requirements
- Extra strength design to be used in areas experiencing high foot traffic

Contents

Technical description.....3

Design.....3

Materials and surface treatment.....3

Model Types.....3

Installation.....3

Maintenance.....3

Environment.....3

Performance tables.....6

Performance Table.....4

Dimensions.....5

Order key.....6

Specification text..... 6

Technical Description

Design

The HDFG is a fixed blade linear bar grille designed to be used in modular raised floor systems. It uses 6mm thick blades on a 12.35mm pitch making it heel proof. The HDFG utilises a bespoke blade design to add structural strength to the grille as well as a unique frame for further strength and rigidity. The HDFG is suitable for both heating and cooling applications. It's also suitable to be used for ventilation.

Material and Surface Treatment

Mill finish as standard. Powder coating or anti-static nylon coating also available upon request.

Model Types

HDFG can be configured to suit floor thicknesses of 30-50mm.

Accessories

OBSS (Opposed blade damper)

BL (Blanking plate)

HMD (Hit and miss damper)

Note- the above accessories can be supplied loose for site installation or pre-fixed in factory.

Installation

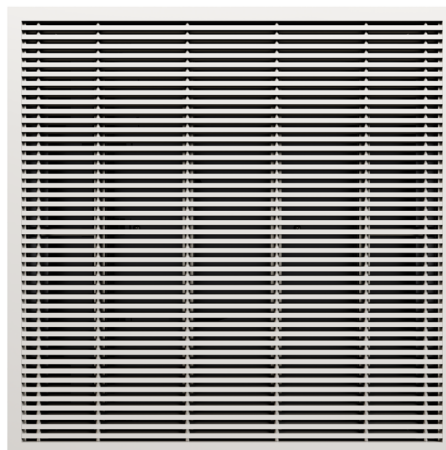
For maintenance details please refer to IOM documentation

Maintenance

For maintenance details please refer to IOM documentation

Environment

Our standard powder coating is suitable for a C2 internal environment classification, ISO 12944-2. Design life 25 years. Mill finish grilles are suitable for C1/C2 internal environment classification, ISO 12944-2.



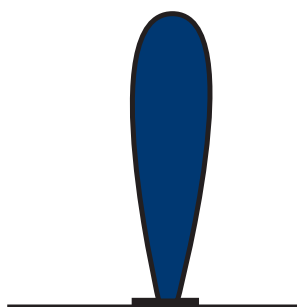
Performance Table

HDFG						
600 x 600 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
	Ps	1	2	4	3	5
	Lw	<20	<20	20	<20	21
200	T	1.1	1.2	1.7	1.5	2.0
	Ps	3	4	6	5	9
	Lw	<20	<20	21	21	23
300	T	1.9	2.0	2.7	2.4	3.2
	Ps	5	6	13	12	22
	Lw	21	21	25	25	31
400	T	3.0	3.2	3.9	3.6	4.4
	Ps	9	10	25	23	40
	Lw	27	28	33	32	41-
500	T	4.2	4.4	5.1	4.9	-
	Ps	13	15	40	34	-
	Lw	34	36	41	20	-
600	T	5.6	5.9	-	-	-
	Ps	17	22	-	-	-
	Lw	42	44	-	-	-

$\Delta T = 6^{\circ}\text{C}$

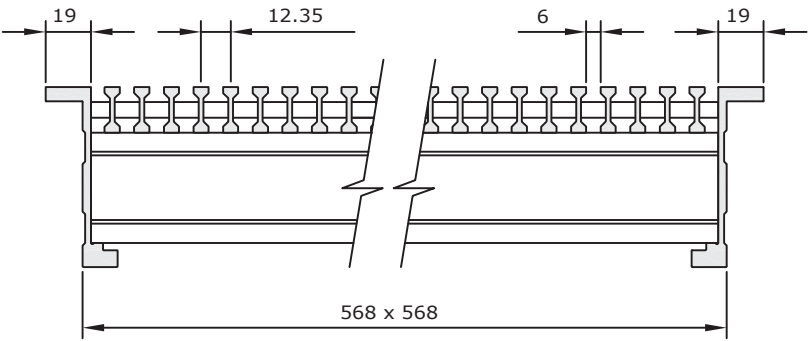
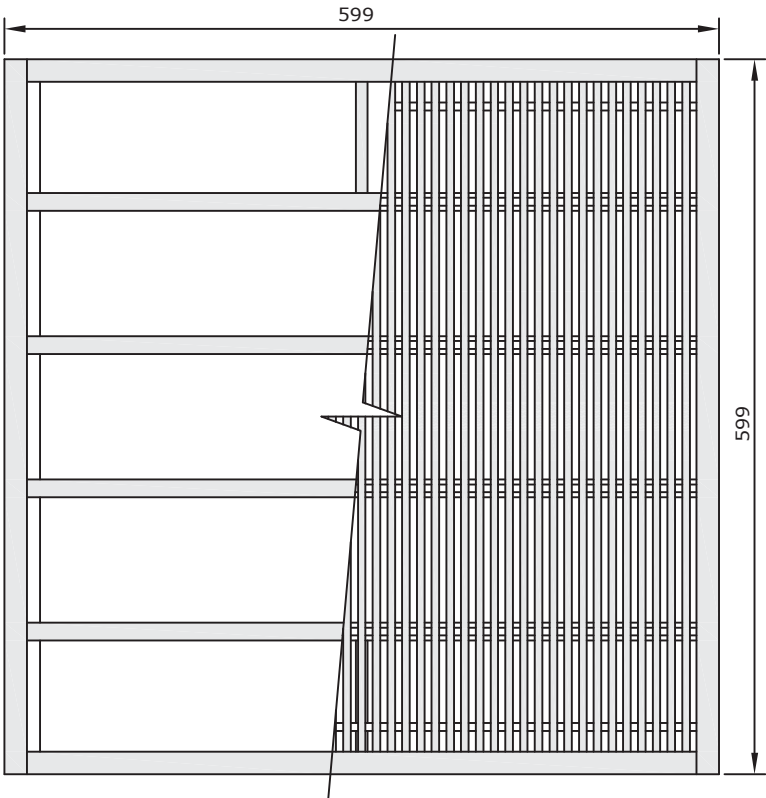
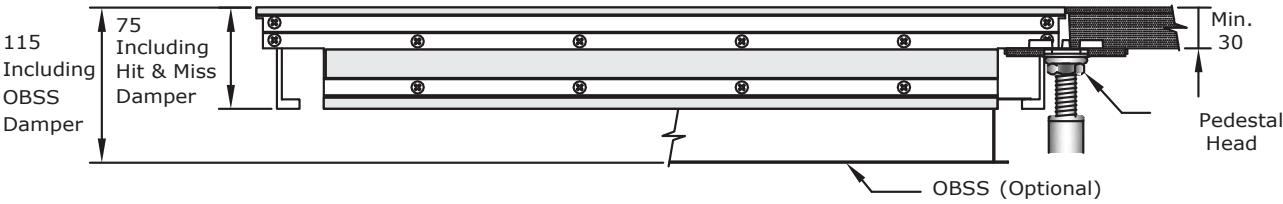
Throw (m) at 0.25 m/s

Floor - Vertical Only



Indicative isovel when used in heating application.

Dimensions



Order Key

Composite Reference: HDFG/30/MILL/HMD

Diffuser Order Key		1	2	3	
Order example:		HDFG	30	MILL	HMD
Tile Depth:					
-30mm	Depth available in 1mm increments				
-50mm					
Finish:					
MILL	Untreated Aluminium				
7030	Grey RAL 7037				
9005	Black RAL 9005				
SPC	Other colours available to special order				
Damper:					
	No damper				
OBSS	Opposed blade damper				
HMD	Hit & miss damper				
BP	Blanking plate				

Specification Example

- Fixed blade linear bar grille
- Specifically designed strengthened blades and frame design
- Tested and compliant with BS EN 13264-2001- Extra heavy structural class
- Simple drop in installation to suit 600x600mm modular raised floor systems
- Available with opposed blade damper, blanking plate or hit and miss damper for airflow balancing
- Available in Mill finish or anti static nylon coating
- 33% Free area
- Suitable for up to 500l/s volumetric flow rate