Heavy Duty Floor Grille// Type CLBG

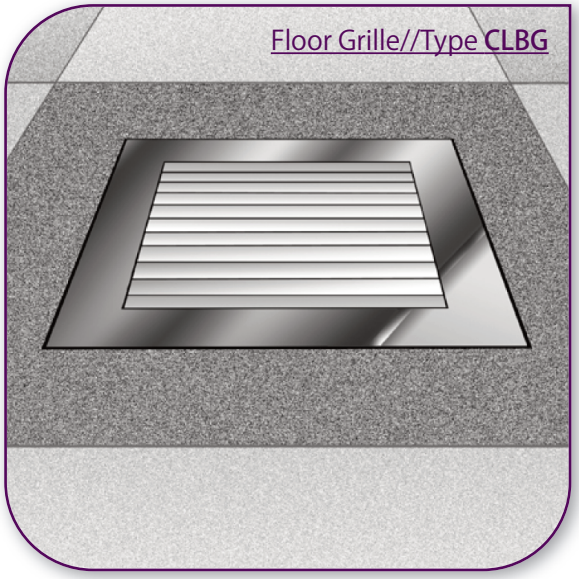
This grille has been specifically designed for mounting in a heavy duty raised access floor, suitable for computer rooms or other areas where floor supply is advantageous.

Extensive testing by independent laboratories have certified that the grille is suitable for meeting the stringent point loading and safety factor requirements for these areas. The grille is also suitable as a general replacement for 600sq floor tiles where areas of heavy foot traffic and equipment would be experienced.

High precision tolerances mean that the units can be interchanged with any manufacturers' tiles and due to it's unique construction the grilles can be supplied with varying thickness to adapt to different manufacturers' flooring systems. Available with or without dampers and also with a range of bar thickness' and spacings.

Specification & Construction:
Manufactured from a combination of high quality aluminium HE9TF alloys with steel fully welded rear sub-frame.

Sizes:
Standard units are 599mm x 599mm +0 –1. Smaller units with surface mounting frames for rebating into tiles can also be specified.



Finish:
Standard finish is milled aluminium with black shadowline to sides. We can also offer powder coated and nylon finishes if required.

Fixing:
600mm x 600mm grilles are supplied without fixing and are simply dropped into the suspended floor grid and retained by the surrounding tiles.

Alternative Designs:
Units suitable for finishing flush with carpet, linoleum or wooden floors can be manufactured. Also these grilles are available in stainless steel for prestige environments. Contact our headquarters to discuss your requirements.

Sizes:
From 200mm square through to 1m^2.

Finish:
Standard is milled aluminium, however, most units can be polyester epoxy powder coated or supplied shadowline black (silver front) if required.

Fixing:
Through the surface mounted frame or bolted into ductwork.

To determine air flow:

Measuring the Veff in different points of the grille, determines the Veffmed.

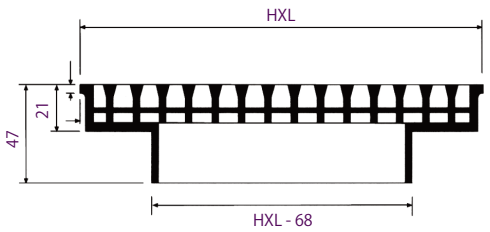
Vt(1/s) =Veffmed (m/s). Aeff (m²) 1000

Vt(m^3h) =Veffmed (m/s). Aeff (m^2) 3600

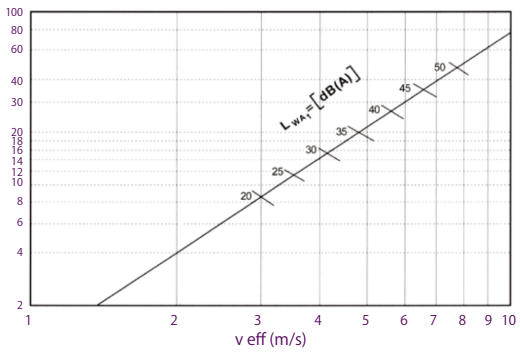
Load Testing:

Tests conducted to satisfy PSA MOB PF2 PS (JAN 1990) and IBM Property Management Design Guide for Raised Access Floors.

Passed the 25x25mm point loading test of 4.5kN over 24 hours.
Passed the 25x25mm safety load factor load test of 13.5kN for 5 minutes without collapse.
Passed impact test.
Passed 4.5kN rolling load test.

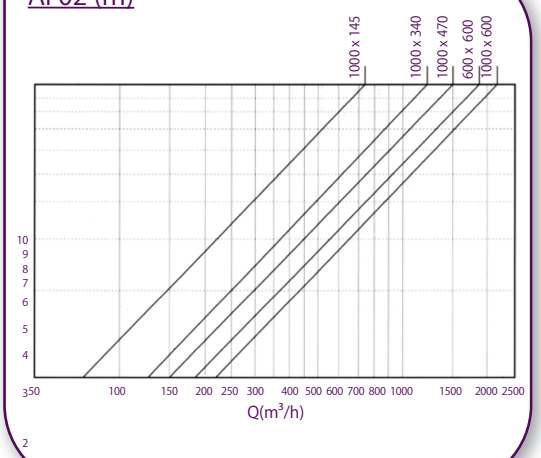


Effective Face Area	
1000 x 145	0.063
1000 x 340	0.132
1000 x 470	0.2
600 x 600	0.148
1000 x 600	0.269



Dpt (PA)

Al 02 (m)



Sizes		
	L	H
1000 x 600	1000	600
600 x 600	600	600
1000 x 535	1000	535
1000 x 470	1000	470
1000 x 405	1000	405
1000 x 340	1000	340
1000 x 275	1000	275
1000 x 210	1000	210
1000 x 145	1000	145

Testing Authorities:

Load testing carried out by Fulmer Yarsley Ltd, Redhill, Surrey.

Sound Power Levels and Aerodynamic tests by Sound Research Laboratories, Sudbury, Suffolk.