

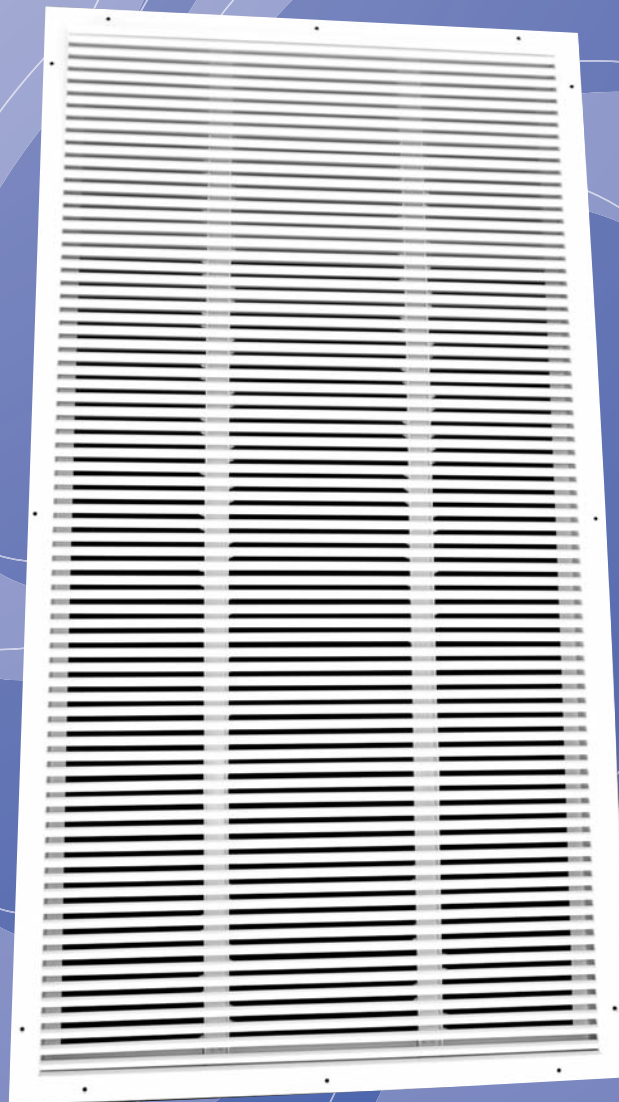
# SERIES HG

Sport & Gymnasium Grille

PUBLICATION

GRILLES 19

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## Features

- Fixed Aerofoil Blades
- Robust 10mm blade section.
- Safe smooth edges and borders
- No Finger trap points
- Large Flange fixing border
- High free area
- All extruded aluminium construction

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Sport & Gymnasium Grille

## Introduction

Gilberts HG Series provides a tough, uncompromising but safe grille solution for both air supply and extract applications in sports halls, gymnasiums and other similar areas. All units comprise of substantial 10mm section rounded aerofoil vertical blades set close on a 16mm pitch to provide a strong central air distribution core. Framing the core is a large 50mm flange border frame with welded mitred corners to offer a strong and comfortable size landing for fixing to the structure. The flange border frame also includes smooth outer edges to reduce the risk of any collision type injury whilst the narrow blade pitch on the core eliminates the risk of finger trapping.

Sport England guidelines were consulted in the design and development of this grille to ensure that all best possible practices were applied.

The HG series features both horizontal (Type HGH) or vertical (Type HGV) blades. Standard fixing is screw through the flange using self tapping screw supplied.

Standard sizes range from 200 x 200 up to 2000 x 2000 for Type HGH with horizontal blades or all the way up to 10000 x 2000 for type HGV with vertical blades.

Standard finish on the HG Series is a White Polyester powder. Other special colours and finishes are available on request.

## Performance Data

All HG Series units can be sized and selected from the nomogram up to a maximum size of 1000 x 1000. All data based on isothermal conditions.

### References Used:

Pressure: All pressures are in Pa (N/m<sup>2</sup>)

Sound: Measured in average dba level

Free Area: Approx 37%

## Selection Procedure

From the proposed layout and application determine:

1. Volume of air to be handled at each outlet.
2. Throw. To prevent overblow this should be 75% of the distance to the wall opposite or, if outlets are opposed to one another, one third of the distance between them.
3. Acceptable db'A' sound level from chart.

### Example:

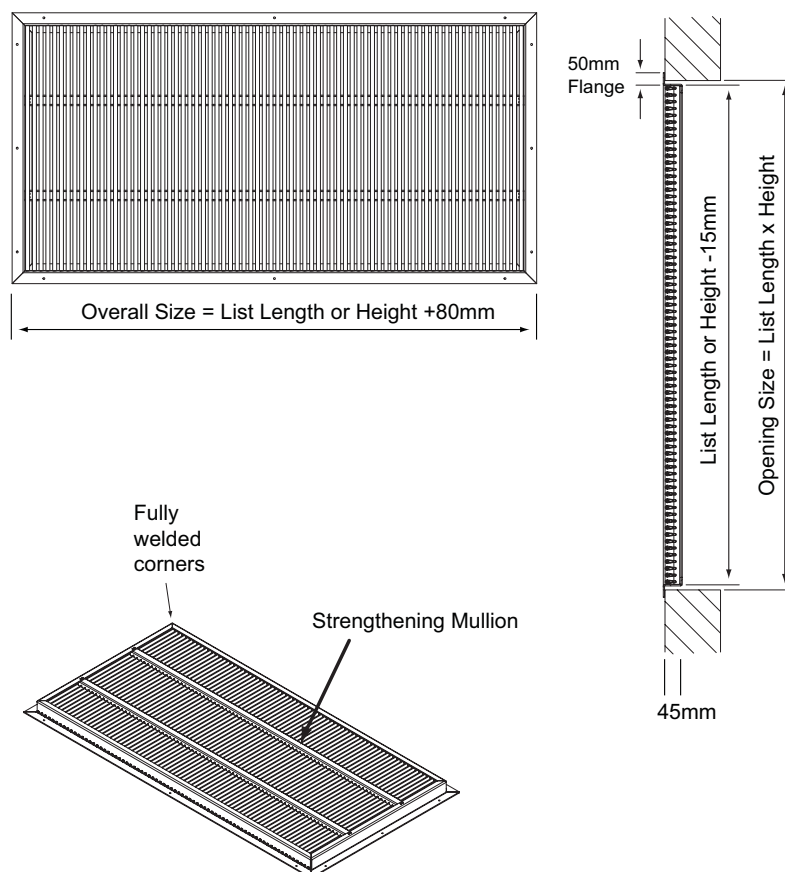
Select a suitable supply outlet for a gym 10m x 10m x 5m high, the outlet being located in the centre of the 10m wall. Duty 1m<sup>3</sup>/sec. Throw 7.5m.

Acceptable sound level 40db'A'. Mounting height 1m.

### From Sizing Nomogram:

2 N<sup>o</sup> size 1000 x 600mm @ 0.5m<sup>3</sup>/s each meets the requirements and the sound level is acceptable.

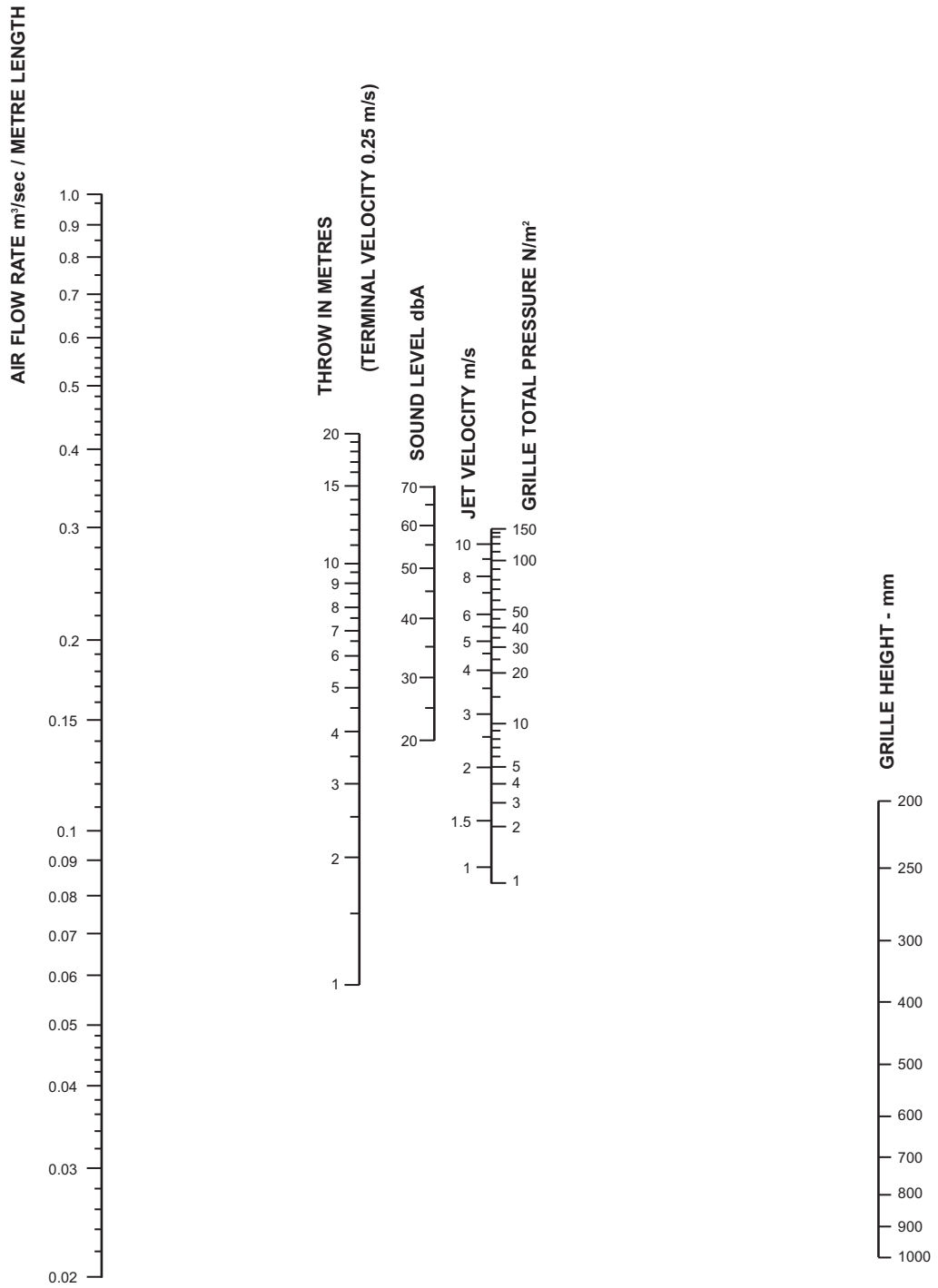
## Dimensional Data



Approximate Weight - 22.5 kg/m<sup>2</sup>



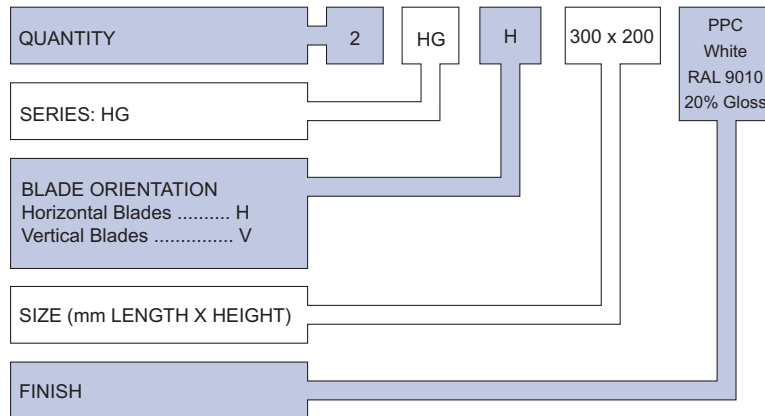
# Sizing Nomogram



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## Ordering Specification



Example : HGH / 300 x 200 PPC White RAL 9010 20% Gloss

### Finish

Standard Finish: Polyester Powder Coat White RAL 9010 20% Gloss.

Special Finishes: Polyester Powder Finish to stock BS or RAL colour.

### Fixing

Standard flange screw fixing using self tapping screws provided.

### Size Range

Available sizes range from 200 x 200 up to 2000 x 2000 for Type HGH and 200 x 200 up to 10000 x 2000 for Type HGV in 25mm increments. Where any dimension can be supplied up to 2m<sup>2</sup> in area e.g. 2 x 1m. Multiple sections are typically supplied in 1000mm sections.

## GILBERTS

Head Office and Works  
**GILBERTS (BLACKPOOL) LTD**  
Gilair Works, Clifton Road,  
Blackpool.  
Lancashire FY4 4QT.  
Telephone: (01253) 766911  
Fax: (01253) 767941  
e-mail: [sales@gilbertsblackpool.com](mailto:sales@gilbertsblackpool.com)  
Web: [www.gilbertsblackpool.com](http://www.gilbertsblackpool.com)

