Series K
Fixed Blade Grilles

Features
- Fineline 3mm fixed Blade.
- 0°, 15° or 40° Blade Deflection.
- One or Two Way Deflection.
- Standard or Heavy Duty Design.
- Extruded Aluminium Construction.

Gilberts
SERIES K
Fixed Blade Grilles

Introduction
Gilberts K Series provides a comprehensive range of fixed blade extract grilles suitable for a wide variety of sidewall or ceiling mounting applications. All units comprise of a fineline 3mm blade mounted on a 19mm pitch which is available either set straight or with an angle of 15° or 40°. A two way deflection option for the 40° blade is also featured. The Standard flange border is 32mm wide, however for more robust application requirements such as sports halls, gymnasiaus, etc a heavy duty 22mm fully welded Z-Section frame is available.

SERIES OPTIONS:
Type K : Standard duty fixed blade grille comprising 3mm fineline blades set straight (K0), at 15° (K15) or 40° (K40) in a 32mm flange border frame. Two way deflection on the 40° blade (2K40) is also available.
Type KG : Heavy Duty fixed blade grille comprising of 3mm fineline blades set straight (KG0), at 15° (KG15) or 40 (KG40) in a 22mm Z-Section flange border frame. Two way deflection on the 40° blade (2KG40) is also available.

Features
- Fineline 3mm fixed Blade.
- 0°, 15° or 40° Blade Deflection.
- One or Two Way Deflection.
- Standard or Heavy Duty Design.
- Extruded Aluminium Construction.

All units are available complete with screwdriver operated opposed blade damper, as well as other accessories such as knob operated dampers and special fixings such as concealed bracket or quick release. The standard finish on K Series is polyester powder white. Special colours and finishes are available on request.

Performance Data
All K Series units can be sized and selected from the nomograms up to a maximum size of 1200 x 1200. Separate nomograms are provided for 0/15° deflection and 40° deflection.

References Used
Pressure : All pressures are in Pa (N/m²).
Sound : Measured in average dbA Level.

Selection Procedure
Using the sound and recommended velocity tables determine the maximum permissible velocity relative to the air volume for the application. Using the sizing nomograms the appropriate terminal size can then be determined and sound level data and pressure drop data checked.
Please note that noise level data is only available down to NC20. For selection at lower noise levels please consult with our technical department.
FREE AREA ('K' Factor) based on core free area of grille
Type K0 & K15 - 80%
Type K40 - 57%

SPACED SERVED Sound Level RECOMMENDED VELOCITIES
db 'K' Scale AIR 0.05 0.25 1.0
VOLUME m³/s m³/s m³/s
Broadcasting & Rec. Studio 20 - 25 Velocity m/s 2.0 1.5 1.0
Board or Conference Rooms 30 Churches, Concert Halls, Hospitals, Lecture Theatres, Offices, Hotels, Private Houses Velocity m/s 3.0 2.5 2.0
Banks, Courtrooms, General Offices, Libraries, School Classrooms 35 Velocity m/s 3.5 3.0 2.5
Cinemas Departmental Stores, Restaurants 40 Velocity m/s 4.0 3.5 3.0
Computer Rooms, Supermarkets 45 Velocity m/s 4.5 3.75 3.25
Laundries and kitchens, Typing Pools, Light Engineering Factories, Sport Arenas 50 Velocity m/s 5.0 4.25 3.5
Heavy Engineering Factories 60 Velocity m/s 8.0 6.5 5.0
**Dimensional Data**

**Series K**

- Overall Size = List Width or Height + 45mm
- Aperture Size = List Width x Height (mm)
- Hole 4mm dia.
- Grille Types
  - Type K0
  - Type K15
  - Type K40
  - Type 2K40

**Series KG**

- Overall Size = List Width or Height + 32mm
- Grille Types
  - Type KG0
  - Type KG15
  - Type KG40
  - Type 2KG40

*Max depth - Depth may be lower depending on damper fitment. Please check where necessary.*
Sizing Nomogram
Series K
＆ KG - 0°
＆ 15°
Deflection
Sizing Nomogram Series K & KG - 40° Deflection

SERIES K & KG (40° DEFLECTION)
Type K40
Type 2K40
Type KG40
Type 2KG40
**SERIES K**

Fixed Blade Grilles

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### Ordering Specification

**SERIES:**
- K......................Standard
- KG.....................Heavy Duty
- 2K.....................Standard (2way)
- 2KG.................Heavy Duty (2way)

**Finish**
- Standard : PPC White RAL 9010 20% Gloss.
- Special : PPC to Stock BS or RAL colour
- Stove Enamel to BS/RAL colour.
  (Dampers mill finished aluminium or Galvanised steel)

**Fixing**
- Standard flange screw fixing using self tapping screws.
- Options
  - Special fixing, border and damper options
detailed separately in grille options and accessories data.

**Size Range**
- Available sizes range from 100 x 100 up to 1200 x 1200, in 1mm increments. For other sizes please contact head office.

**Narrow Border**
- Units can be fitted with a narrow 16mm wide flange border instead of the standard 32mm.
- Units will have a reduced clearance on the aperture and since the screw fixing is not possible a special fixing option must be selected instead.

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**GILBERTS**

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