Features

- Heavy Duty All Welded Construction.
- Fineline 3mm Fixed Blade Construction.
- 0, 15 or 40 Fixed Blade Angle.
- Mild Steel or Stainless Steel Fascia
Introduction
Gilberts SK Series provides a practical range of Heavy Duty mild or stainless steel fixed blade grilles suitable for many more robust industrial style applications such as car parks, factory premises, stairwells, outbuildings etc. Designed for supply or extract application all units comprise of a sturdy 3mm steel formed blade angled at 0° for supply or 15 and 40° for extract according to preference and set on a 19mm pitch. All blades are welded into a robust 50mm flange frame which, with intermediate castellated blade supports provides for an exceptionally strong grille structure.

The mild steel units (with standard powder coat) are suitable for all internal non weather applications with the stainless steel unit suited to more aggressive environments.

Series Options:
- Series SK 0: Heavy duty fixed blade grille with straight 0° Blades
- Series SK 15: Heavy duty fixed blade grille with 15° Blades
- Series SK 40: Heavy duty fixed blade grille with 40° Blades

All units are available in sizes ranging from 100 x 100 up to 1200 x 600 in 25mm increments and can be fitted complete with screwdriver operated opposed blade volume control damper (Damper typically manufactured from aluminium). Standard fixing is Flange screw and the standard finish for mild steel units is Polyester powder white with other colours and finishes available on request. Stainless steel units are a plain stainless finish.

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Performance Data
All SK Series units can be sized and selected from the nomogram up to a maximum size of 1200 x 600. All data based on isothermal conditions, dampers fully open. SK 0° units generally used for supply applications. SK 15 and 40° units generally for extract.

K Factor (free area) on the SK Series is approx. SK0 -85%, SK15 - 82%, SK40 - 57%

Pressure: All pressures are in Pa (N/m²)
Sound: Measured in average dBA level

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 the outlets are opposed to one another, this should be one third of the distance between them.
3. Acceptable sound level from chart. Please note that data is only available down to NC20. For selection at lower noise levels please consult with our technical department.
4. Temperature differential between primary and room air.
5. Mounting height of outlet.

Example:
Select a suitable supply outlet for a sports arena 18m x 6m x 3m high, the outlet being located in the centre of the 18m wall. Duty 0.09m³/s per outlet. Throw 4.5m to terminal velocity of 0.5m/s. Acceptable sound level 30dBA.

From sizing Nomogram: A SK0 type unit size 300 x 150mm meets the requirements and the sound level is acceptable.
**SK 0 (0° BLADES)**

OVERALL SIZE = LIST WIDTH x HEIGHT + 81mm

**SK 15 (15° BLADES)**

OVERALL SIZE = LIST WIDTH x HEIGHT + 81mm

**SK 40 (40° BLADES)**

OVERALL SIZE = LIST WIDTH x HEIGHT + 81mm
Extract Sizing Nomogram

ALL DATA BASED ON ISOTHERMAL CONDITIONS DAMPER FULLY OPEN
Supply Sizing Nomogram

ALL DATA BASED ON ISOTHERMAL CONDITIONS DAMPER FULLY OPEN
SERIES SK
Heavy Duty Steel Fixed Blade Grilles

Ordering Specification

SERIES SKM.......Mild Steel
SERIES SKS.......Stainless

BLADE angle 0°, 15° or 40°

SIZE (mm width x height)

DAMPER OPTIONS:
Opposed Blade............DO
For matt black finish on damper add ref. BB ie DO/BB

FINISH
(Please Specify)

NUMBER REQUIRED

Example: SKM/O 300x200/DO PPC RAL 9010 20% Gloss

Finish
Standard : Mild Steel Units - PPC White RAL 9010 20% Gloss
Stainless Steel Units - Plain Stainless Finish
Special Finishes : Polyester Powder Finish to stock BS or RAL colour (Dampers Mill Finish Aluminium or Galvanised Steel.)

Fixing
Standard flange screw fixing using self tapping screws.

Size Range
Available sizes range from 100 x 100 up to 1200 x 600, in 25mm increments. For other sizes please contact Head Office.