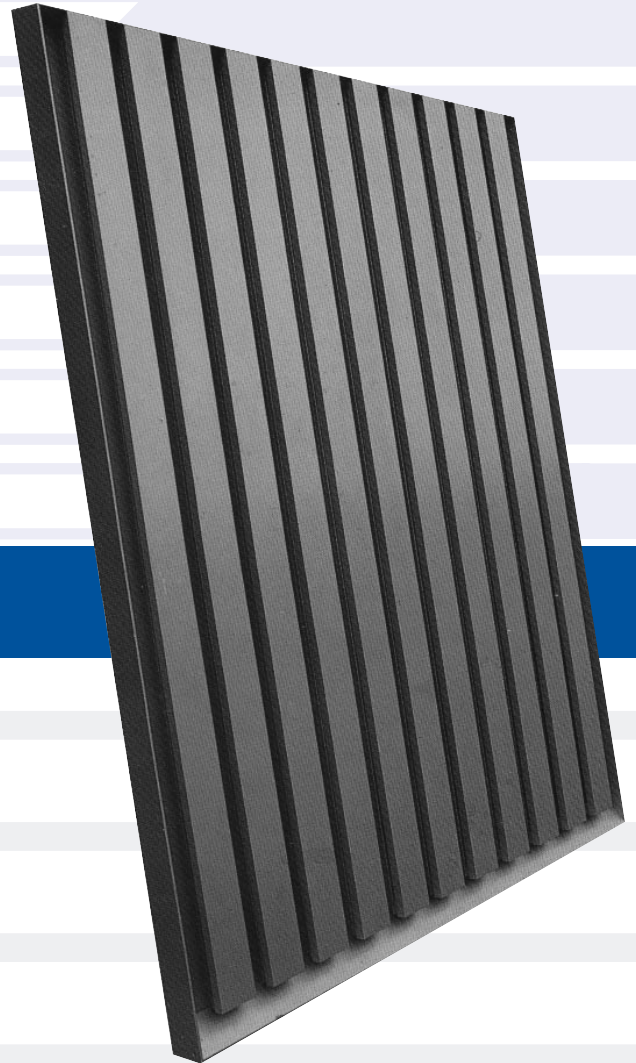


# GILBERTS

## SERIES SG100

### Sand Trap Louvre



Louvres 6  
Nov 2005

#### Sand Trap Louvres

Unlike our Standard and High Performance Louvres with a conventional horizontal blade the SG100 presents a vertical blade appearance, a profile which is often preferable from an architectural point of view particularly when used in conjunction with cladding. For versatility its vertical blades are assembled in a double bank style configuration which enables the unit to fulfil the requirements for not only a standard weather resisting assembly but also for a sand and dust filtering unit. The SG100 is available in both flanged and recessed channel frame options with or without a hinged access facility for cleaning. Rear mounted birdgard and insect screens are also available on request.

#### Series Options

**SGF/100** 15SWG Louvres in a flanged frame assembly.

**SGC/100** 15SWG Louvres in a channel frame assembly.

#### Size Range

Width: Minimum 250mm structural opening and ascending in increments of 150mm.

Height: Minimum 300mm structural opening ascending in increments of 25mm upto a maximum of 1500mm. Units over this height are supplied as multiple assemblies.

#### Fixings

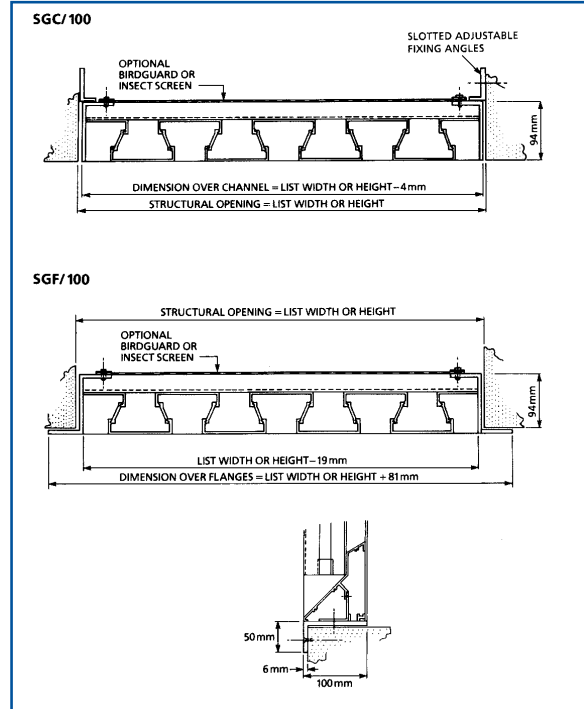
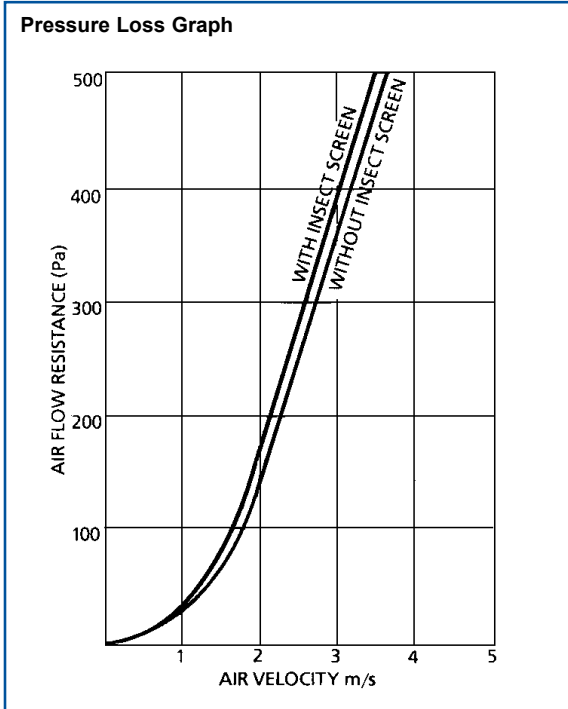
SGF/100 standard fixing method is screw through flange using pre-drilled countersunk fixing holes and screws.

Flanges can be supplied undrilled upon request.

SGC/100 Screw fixing through the adjustable rear fixing angles into the surrounding timber, masonry or duct.

#### Finish

The standard louvre finish is mill finish (ie: untreated). Polyester Powder coatings, PVF and anodised finishes are also available on request.



#### Performance Data

All information below is generally in accordance with HEVAC standard draft 26 UK 04/83E and tested by the building services research and information association

#### Pressure Loss Notes

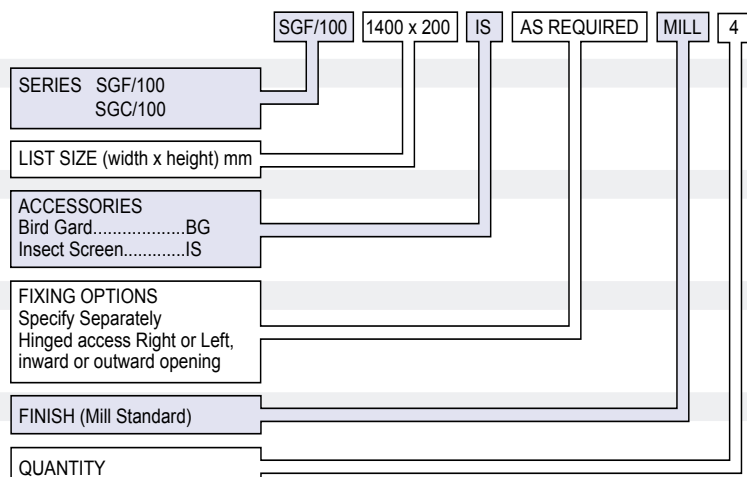
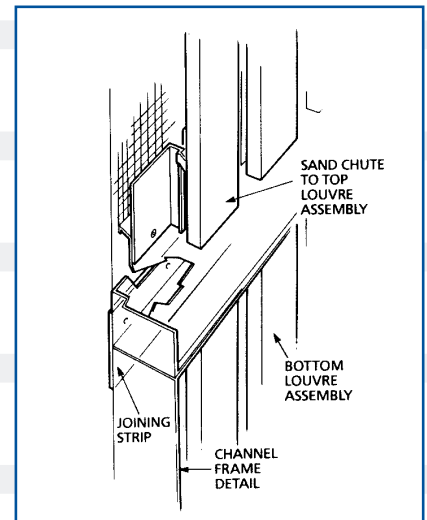
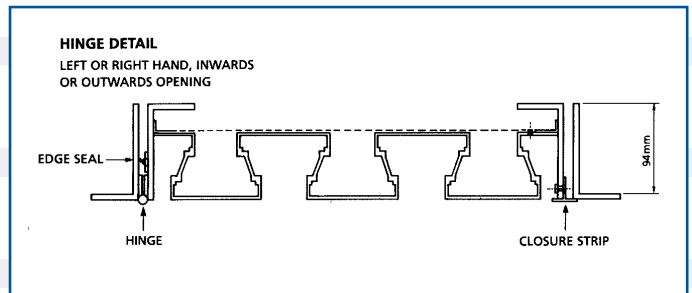
The air flow resistance characteristics were determined by drawing air through the louvre and measuring the pressure drop across the unit. Pressure loss curves are given both with or without insect screen

#### Efficiency

The sand used in the tests was Redhill 50 which has the following composition. The grain size varies between 100 and 1000 microns with 99% between 150 and 425 microns. Rating of the unit is determined by - total weight of sand rejected x 100

#### Total Weight of Sand Injected

From investigations it is recommended that a face velocity of 1m/s be used for economic sizing of units. This velocity will give efficiencies of approximately 87 and 50% for coarse and overall grain of sand. For high efficiency a face velocity of 0.5m/s should be used which results in figures of 89 and 80%.



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