

Security Grilles

SG1 SG2 SG3



Introduction

The Waterloo SG series security grilles have been designed in conjunction with the prison service for supply and extract of air in places where security is a priority - from prison institutions, courts and police stations to secure buildings. Manufactured from 3mm thick mild steel plate, SG series grilles are available in three versions - SG1, SG2 and SG3 - able to meet ventilation needs in high, medium or low security applications. The series offers rectangular or square size options from 100mm up to 600mm.

Product Description

- SG1** High Security Grille With Rear Fixing
- SG2** Medium Security Grille With Face and Rear Fixing
- SG3** Low Security Grille With Face Fixing
- OBSS** Allen Key Operated Opposed Blade Damper
- PB** Plenum Box

Features

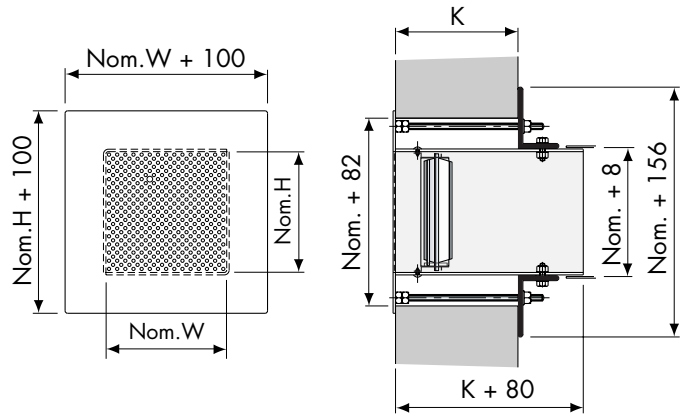
- Low, Medium or High Security Applications
- Side or Top Entry Connections Available
- 3mm Perforated Faceplates

Finishes

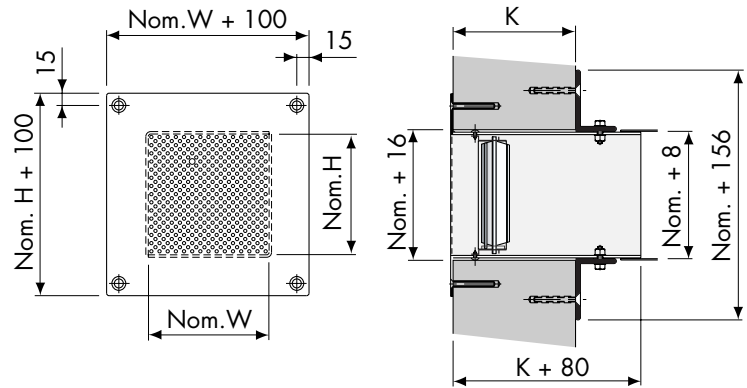
Zintec coating as standard.
 PPM9006 (RAL 9006 Matt Silver)
 PPM9010 (RAL 9010 20% Gloss White)
 PPG9010 (RAL 9010 Gloss White)
 Other colours available on request.

Specification of Perforations in Front Face

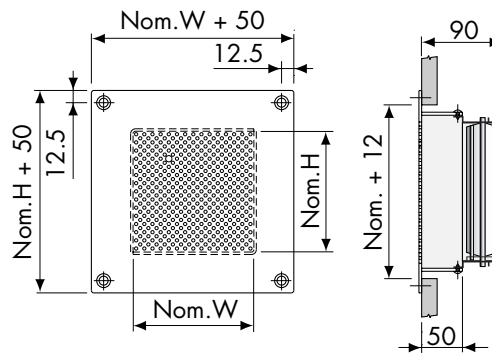
Perforations are 3mm diameter at a 5mm pitch



SG1 + OBSS



SG2 + OBSS



SG3 + OBSS

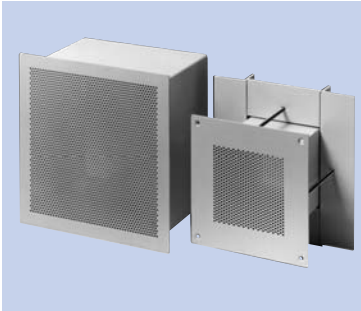
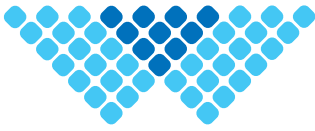
Order Example

SG1/300x300x150/PPM9006/OBSS

| | |
|----------------|---------|
| Type | SG1 |
| Nominal Width | 300 |
| Nominal Height | 300 |
| Depth | 150 |
| Finish | PPM9006 |
| Control | OBSS |

Free Area

35%



Selection Criteria

Throw data is based on a free jet under isothermal conditions and is presented for a terminal velocity of 0.5m/s.

Jet throws to a terminal velocity of 0.25m/s can be obtained by applying a factor of 1.5.

Noise data is presented in terms of sound power based NR levels and is valid for supply and exhaust applications

Selection Example

SG1/300x300 for an Exhaust application

Air flow rate 200 l/s

Jet throw 4.8m

Pressure loss 18 Pa

Noise level NR 20

Performance Nomogram

