

ideal
grilles

Single Deflection Grilles

SG 1 / SR 1 Series

Product Overview

Idealair Series SG 1/SR 1 single deflection supply grilles are suitable for duct, ceiling and sidewall applications in most commercial projects. Aerofoil grille vanes can be individually adjusted allowing the air pattern to be set on site. When fitted with an opposed blade damper at the rear they become series SR 1 with the damper being adjustable through the front face of the grille.

Construction

Frames and vanes are manufactured from 6063 T6 extruded aluminium. Frame mitres are mechanically jointed and tig welded on the rear and neck for added strength and rigidity preventing any distortion of the hairline mitres. Grille vanes are set at 20mm centres and mounted horizontally in the frame as standard or vertically if requested.

Size Range

100 x 100mm to 1000 x 1000mm nominal size in 50mm increments. Special sizes and multiple units are available on a made to order basis. Please enquire for details.



Fixing

Grilles are supplied with countersunk holes as standard. Alternative fixing methods are available on request.

- N** - No fixing provided (fixing by others)
- S** - Countersunk flange holes
- R** - Rear fixing lugs

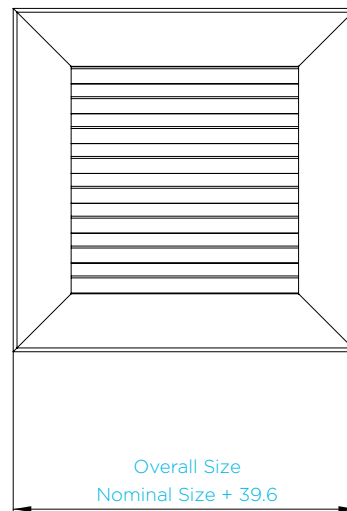
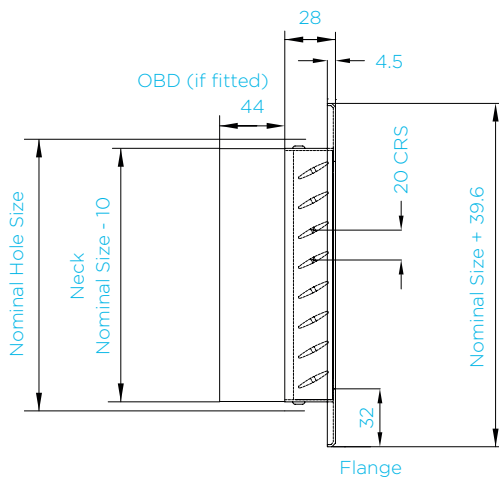
Finish

- MF** - Mill Finish (Standard)
- PPC RAL** - Stock RAL colours available to order

Accessories

Please specify the accessories on your order.

- Opposed blade damper (OBD)
- Neck reducers
- Plenum boxes



All measurements in millimetres (mm)

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Selection Nomogram

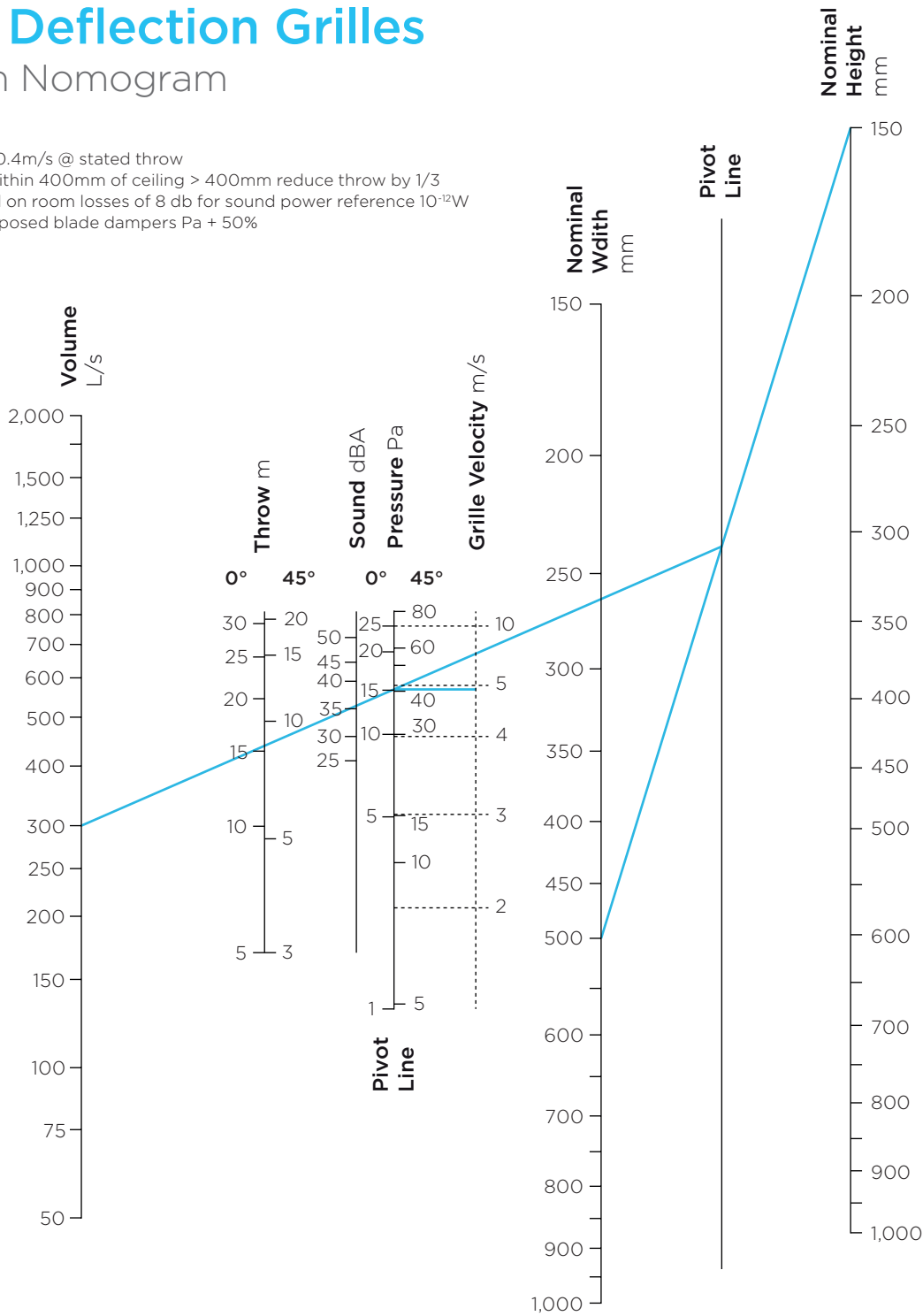
All data based on:

*Terminal velocity 0.4m/s @ stated throw

*Grilles mounted within 400mm of ceiling > 400mm reduce throw by 1/3

*dBA figures based on room losses of 8 db for sound power reference 10⁻¹²W

*For grilles with opposed blade dampers Pa + 50%



Placing an order

Example Product Code					
SG1	O150	O500	NOM	S	MF

Terminal Velocity m/s	0.5	0.4	0.25
Throw Multiplier	0.8	1	1.5

Series	Size mm*	Dimensional Selection		Fixing		Finish			
		Width	Height						
SG1	Grilles only	O100	O100	NOM	Nominal opening size or duct size	N	No fixing (fixing by others)	MF	Mill Finish
SR1	Grilles with opposed blade damper fitted	1000	1000	NK	Neck size of the grille	S	Countersunk flange holes	RAL	PPC RAL colours
				AF	Across flange size of the grille	R	Rear fixing lugs		

*Sizes in 50mm increments
When ordering please state requirement from each column: Series, Size, Dimensional Selection, Fixing & Finish.