



A x B = Overall outside dimensions (O/D)
 C x D = Ope size
 E = Depth including Damper
 F = Depth excluding Damper (SD & DD)
 G = Flange width

EXAMPLE

300mm x 150mm DD

A x B = 331 x 182mm
 C x D = 300 x 150mm (physical ope)
 Neck = 285 x 135mm actual
 E = 92mm (same for SD & DD)
 F = 40mm (same for SD & DD)
 G = 25mm (32mm on larger sizes)

SD Grilles:

Single deflection grilles are comprised of a single row of individually adjustable 19mm wide aerofoil blades, which can be vertical or horizontal (as determined in ordering) and are suitable for supply and or extract in ceiling or wall mounted applications for commercial and industrial projects. The addition of the letter 'R' (SDR) determines the requirement for a volume control damper, which is used for commissioning and balancing of the ventilation system.

DD Grilles:

Double deflection grilles are similar to single deflection with the additional set of adjustable 19mm wide blades which give additional benefits in the diffusion of supply air for large and small projects. Again the use of the letter 'R' (DDR) signifies a fitted damper which is essential in ensuring the desired volume through any given grille outlet.

Construction:

Both SD and DD's are manufactured from high quality aluminium extrusions, which conform to BS476 and are anodised to AA05. There are two flange widths available to accommodate larger and smaller sizes (see below), which finds a typical 25mm width for smaller stock sizes and a 32mm flange on the larger sizes or on request.

The Opposed Blade Damper Type 'R', (Register)

Two basic types of dampers are fitted as standard in single or multiple sections depending on the size of the grille required. A traditional all aluminium, wire sprung version of the register is manufactured and suited for larger square areas to give a robust and quiet operation with an alternative light-weight, galvanised steel version which is nylon cog driven, and fitted more commonly to the smaller stock sizes. Both dampers are adjusted via the actuator which is accessible through the face of the grille. Dampers may be attached via spring clip or by pop rivet.

Typical Stock Sizes.

150 x 150mm	300 x 150mm	400 x 400mm
200 x 200mm	300 x 300mm	450 x 450mm
200 x 300mm	300 x 600mm	500 x 250mm
250 x 250mm	400 x 200mm	

Finish

Border and blades are anodised aluminium
 Painted Finish - to any RAL or BS colour

Fixings

Countersunk screw holes through flange
 Concealed fixings - see optional extras

Technical Data

All single and double deflection blades are fitted through nylon bearings, which ensure that the blades remain firm once set in position and also removes the possibility of noise created at higher velocity through the grille.
 - Sizing nomogram is opposite

Packaging:

Each grille is individually wrapped to ensure the product reaches you in perfect condition.

Optional Extras

Non standard sizes available on request
 Painting to any BS or RAL colour of your choice.
 FX/SD - Fixed blade (45° single reflection), single deflection
 CF - Concealed spring fixings.

Notes:

- When ordering please specify SD or DD
- If a damper is required add the additional 'R' i.e. SDR
- When ordering specify ope size - fitting clearances will be deducted by us in manufacture (see example)
- Please give length first then height
- For ceiling tile replacement specify - O/D requirements (i.e. A x B dimensions)

Single Deflection (SD) / Double Deflection (DD) SIZING NOMOGRAM

