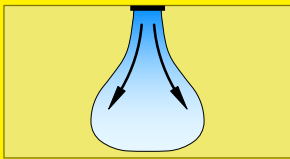
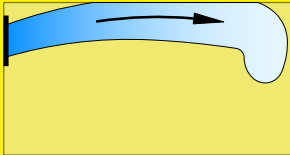
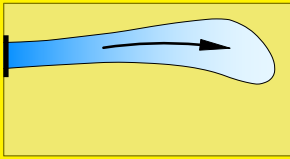


# Adjustable supply air

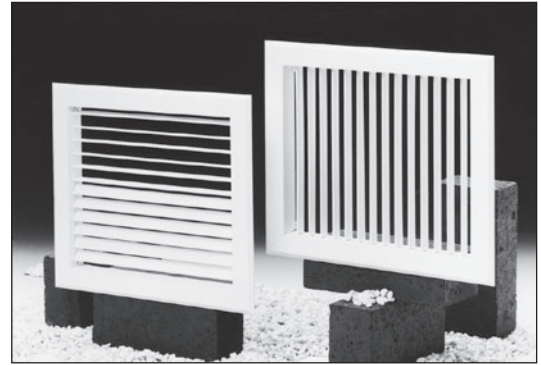
## SINGLE / DOUBLE DEFLECTION

### introduction



The SD and DD range of single and double deflection supply grilles are suitable for most commercial applications and can be utilised in exposed duct, ceiling or sidewall situations.

The individually adjustable blades provide complete spread and directional jet control up to 45° from the discharge axis.



### type

**SDH - SDV - DDH - DDV**

### control

Opposed blade volume control damper - OB

### options

For all additional available options, border styles, fixings, finishes and plenums see document **PART L**

### fixings

Standard fixing method is by countersunk screw through the flange - SC

### finish

Standard finish is satin anodised aluminium - SAA

### sizes

The SD/DD range is available in sizes ranging from 100mm x 100mm to a maximum of 1200mm x 1200mm. Larger sizes can be supplied in sections.

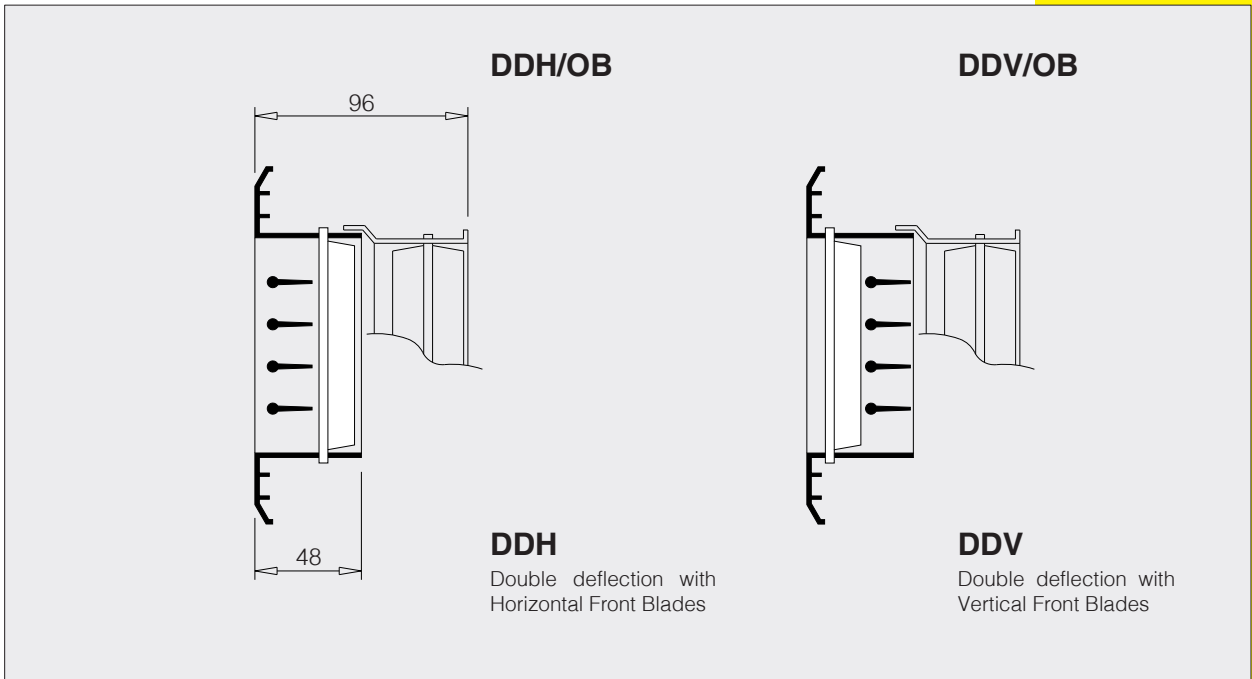
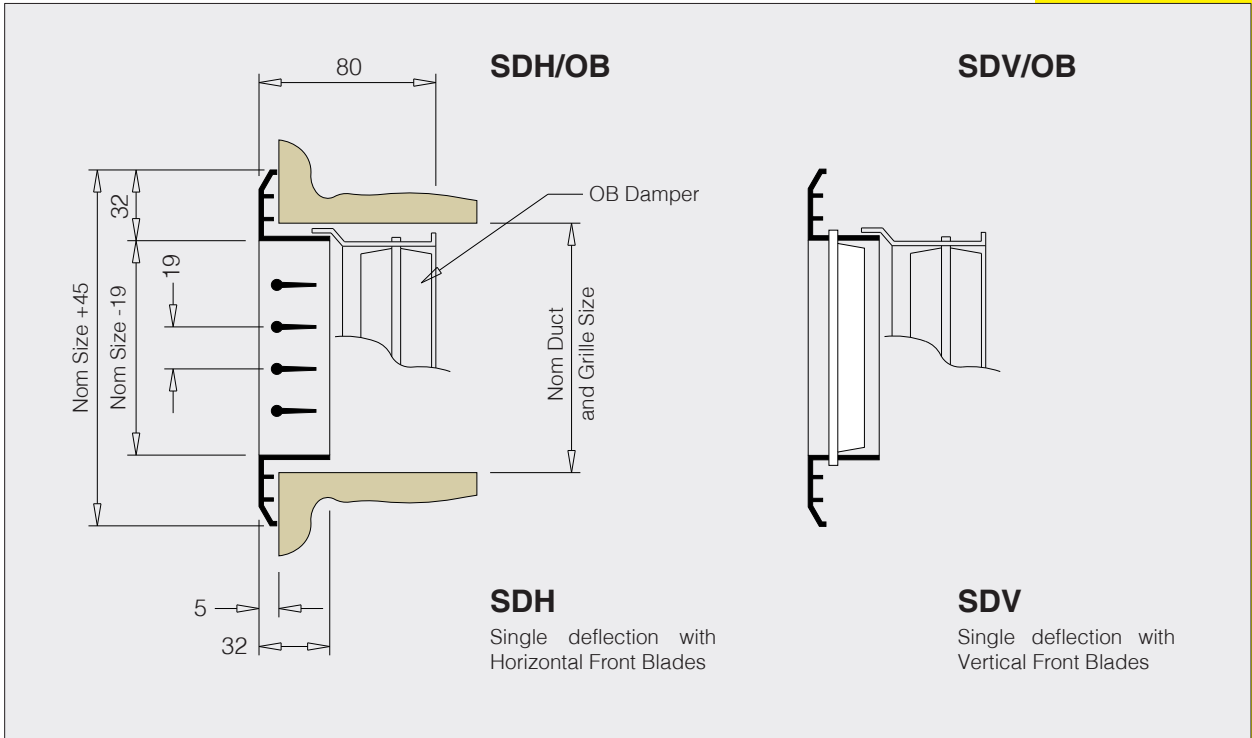
### ordering details

#### example:

| type | control | borders | fixing | finish | width | height | quantity        |
|------|---------|---------|--------|--------|-------|--------|-----------------|
| SDH  | OB      | /       | 32     | /      | SC    | /SAA   | /1000 / 500 / 6 |

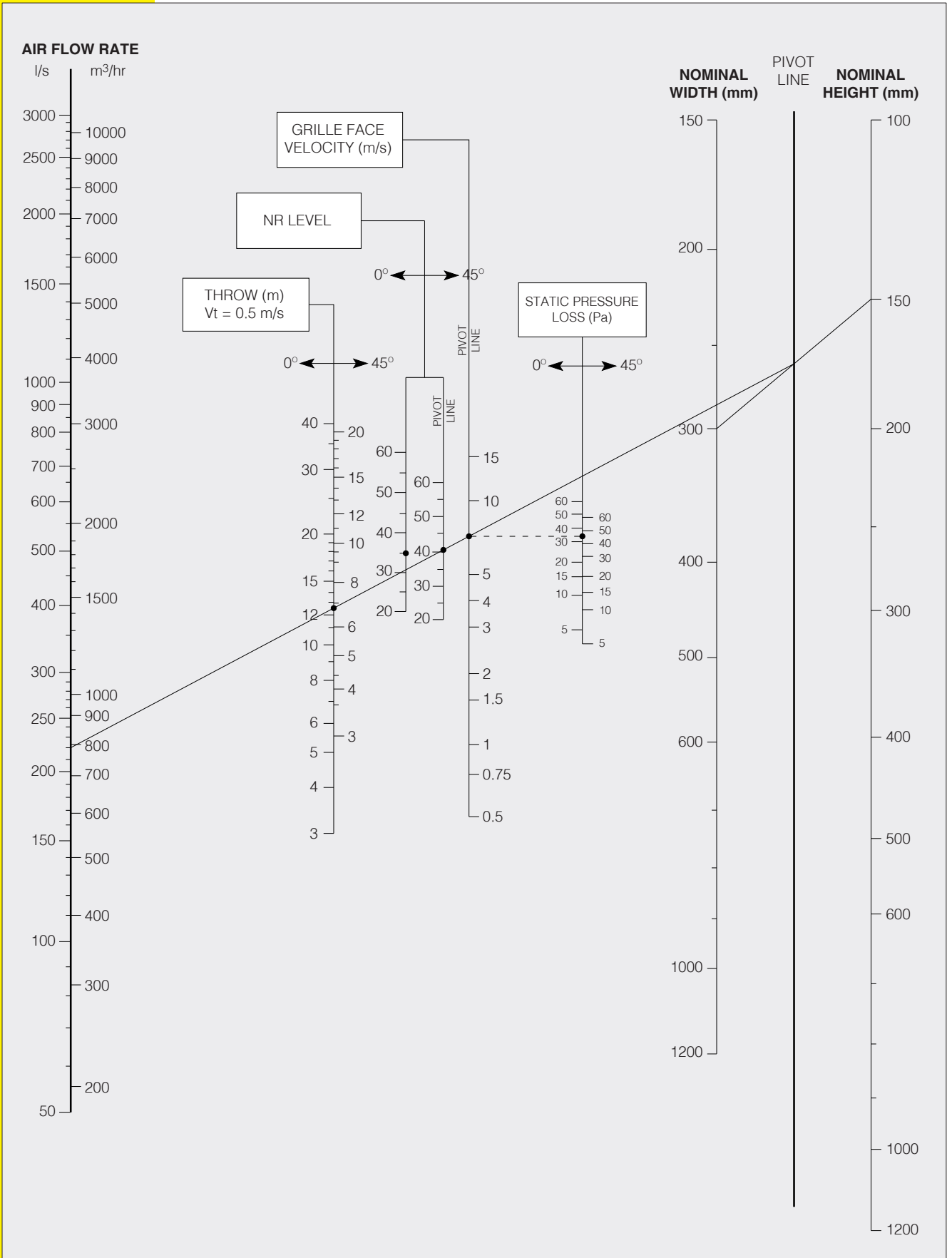
# Adjustable supply air

## DIMENSIONS



# Adjustable supply air

## SELECTION NOMOGRAM

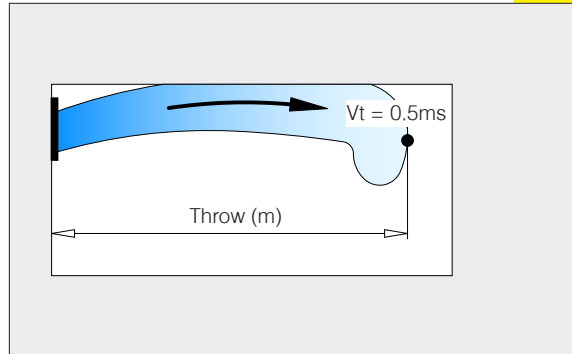


# Adjustable supply air

## BASIS OF DATA

Throw data is based on a confined jet with a terminal velocity ( $V_t$ ) of 0.5m/s and a cooling differential of 10°C. Where the grille is to be positioned 600mm or more from a surface, the throws will be reduced by a factor of 0.7.

throws



Additional factors can be applied to correct for other terminal velocities and temperature differentials. Jet drops can also be estimated from the nomogram on page 12 of **PART L**. Acoustic data is presented in terms of NR levels based on a room absorption factor of 8dB.

correction factors

| TERMINAL VELOCITY CORRECTION FACTORS |        |
|--------------------------------------|--------|
| $V_t$ (m/s)                          | FACTOR |
| 0.6                                  | 0.85   |
| 0.4                                  | 1.2    |
| 0.25                                 | 1.5    |

| TEMPERATURE CORRECTION FACTORS |        |
|--------------------------------|--------|
| DIFFERENTIAL TEMPERATURE       | FACTOR |
| 0°                             | 1.1    |
| +10°C                          | 1.2    |

example

| SELECTION EXAMPLE  |                |           |    |         |
|--|----------------|-----------|----|---------|
| 300mm x 150mm SDH GRILLE PASSING AN AIR FLOW RATE OF 220 l/s | DEFLECTION     | THROW (m) | NR | Ps (Pa) |
|  | GRILLE 0° DEF  | 24        | 33 | 14      |
|  | GRILLE 45° DEF | 13        | 37 | 24      |