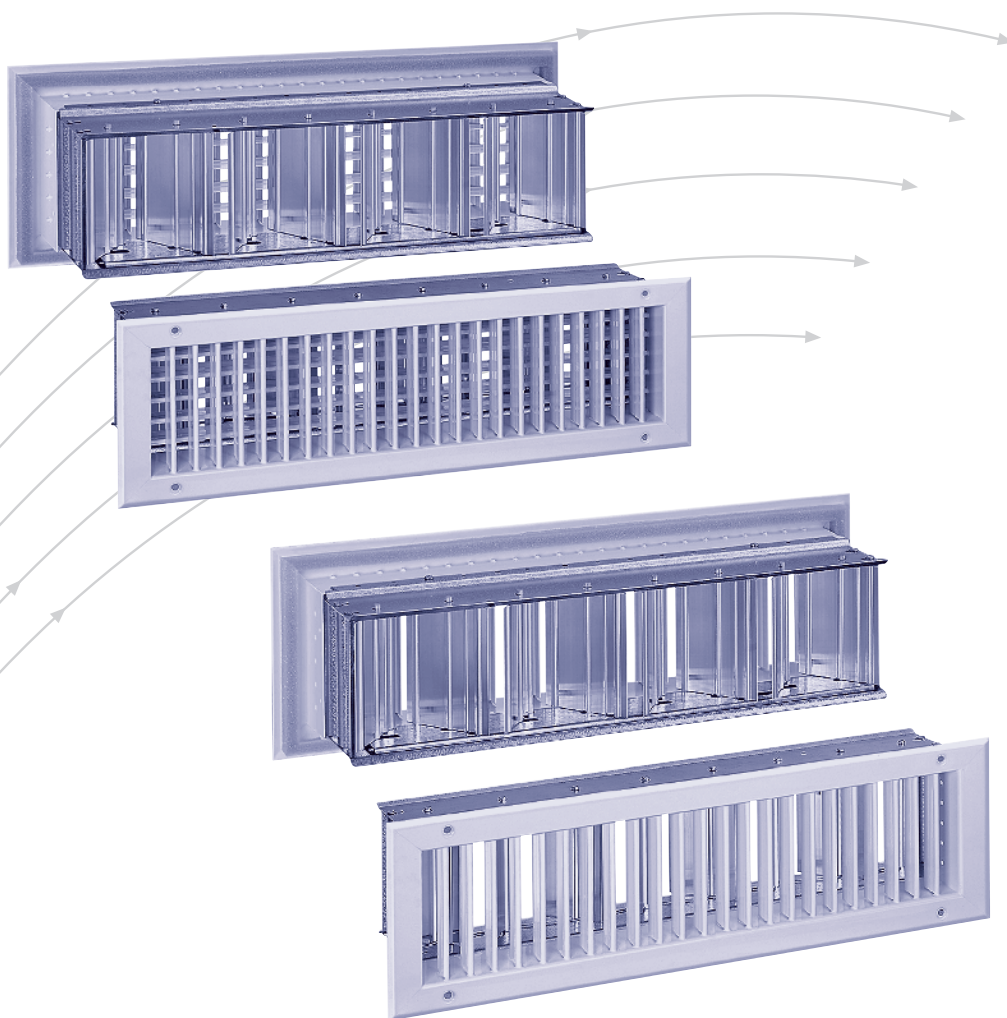


# Diffusion grilles

Type DG6 / DG8



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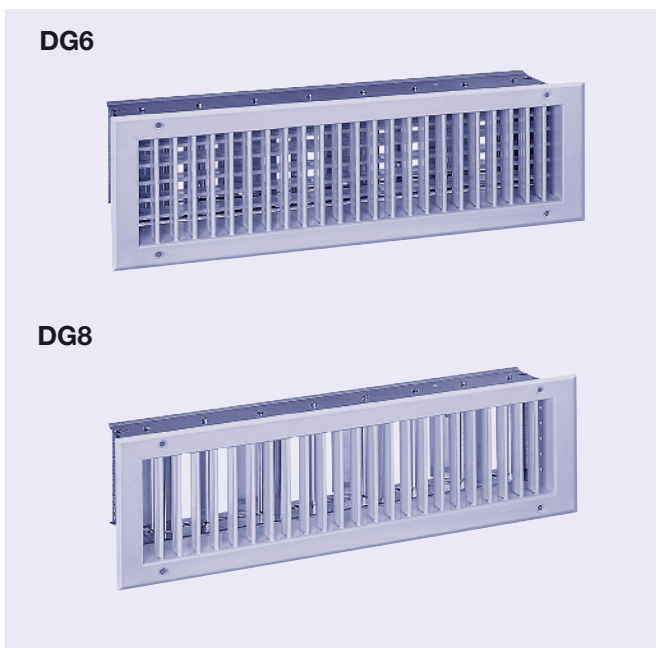
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## Application

Type DG6 Diffusion grille for supply air  
 Type DG8 Diffusion grille for exhaust air  
 The diffusion grilles are suitable for systems which require subtle flow-rate regulation, as is the case when several grilles are connected to the same pressure duct. The direction of air discharge is not influenced by the vertical opposed blade damper.



## Realisation

Diffusion grilles with blades; the damper is screw-attached and consists of a flat frame and vertical counter-current flaps which are adjusted from the front side with a common adjusting screw.

Grille: Steel powder coated RAL 9010, silky sheen, 60% brilliance.

Butterfly valve: Steel galvanized, blades aluminum raw.

Grilles longer than B 600 mm are delivered with two butterfly valves.

### Type DG6

Diffusion grille with individually adjustable **vertical and horizontal** blades. With screw-mounted damper consisting of coupled vertical opposed blade damper.

### Type DG8

Diffusion grille with individually adjustable **vertical** blades **only**. With screw-mounted damper consisting of coupled vertical opposed blade damper.

## Dimensions / Rapid selection

Nom. length B [mm]	Nominal height																	
	ZL [m³/h]	H [mm]	AL [m³/h]	ZL [m³/h]	H [mm]	AL [m³/h]	ZL [m³/h]	H [mm]	AL [m³/h]	ZL [m³/h]	H [mm]	AL [m³/h]	ZL [m³/h]	H [mm]	AL [m³/h]			
200	83	50	97	167	100	195												
250				209	100	243												
300	125	50	146	250	100	292	375	150	438									
400	167	50	195	334	100	390	500	150	585	667	200	780						
500	208	50	243	417	100	487	625	150	730	834	200	974						
600	250	50	292	500	100	584	750	150	876	1000	200	1168	1250	250	1460	1500	300	1752
750	313	50	365	625	100	730	938	150	1095	1250	200	1460	1563	250	1825			
900				750	100	876	1125	150	1314	1500	200	1752	1875	250	2190	2250	300	2628

### Base: Directly flowing resp. flowing off

ZL = supply air,  $v_{\text{eff}} = 3.0 \text{ m/s}$ ,  $\Delta p_s = 3.5 \text{ Pa}$

AL = exhaust air,  $v_{\text{eff}} = 3.5 \text{ m/s}$ ,  $\Delta p_s = 8 \text{ Pa}$

$L_w$  for nominal dimension 600 x 100 mm:

$L_{wZL} = 21 \text{ dB(A)}$ ,  $L_{wAL} = 25 \text{ dB(A)}$

### Legend

$v_{\text{eff}}$  = velocity of effective air

$\Delta p_s$  = static pressure drop

$L_w$  = sound power level

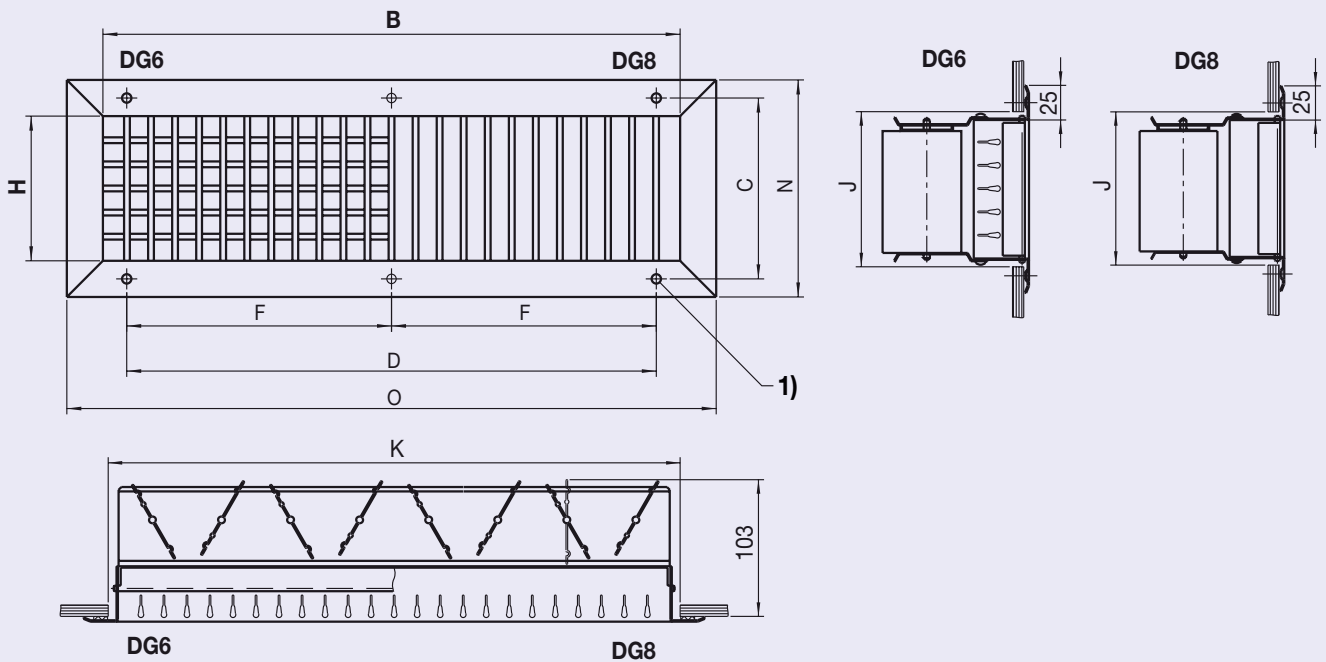
# Dimensions · Installation

## Dimensions

Stock assortment

B	D	F	K	O	H	C	J	N
[mm]	[mm]	[mm]	$B + 15^{+2}_0$	$B + 50$	[mm]	$H + 25$	$H + 10^{+2}_0$	$H + 50$
[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
200	167	-	215	250	50	75	60	100
250	217	-	265	300	100	125	110	150
300	267	-	315	350	150	175	160	200
400	367	-	415	450	200	225	210	250
500	467	-	515	550	250	275	260	300
600	567	283.5	615	650	300	325	310	350
750	717	358.5	765	800				
900	867	433.5	915	950				

### DG6 / DG8



1) Countersunk mounting holes  $\varnothing 4.8 \times 90^\circ$

### Installation

When using sheet-metal ducts, the grilles are screwed on directly. For brickwork or plaster ducts we recommend the use of our DG masonry frame.

### Special model

Screwless mounting (designation SL)

### Dimensioning

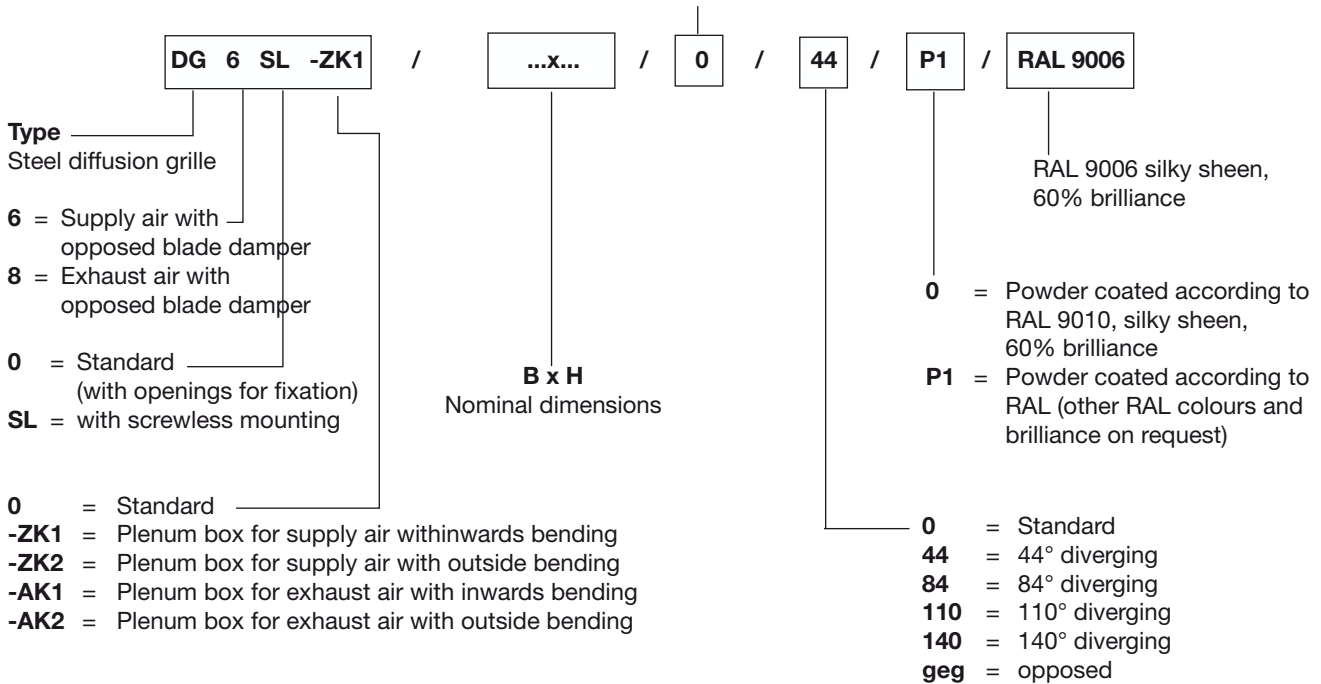
Air velocity, flow rate and pressure drop values are found in "Dimensioning of TROX HESCO diffuser grilles" L-02-5-01e.

The effective free area in the exhaust plane is 77% of the nominal area  $B \times H$ .

# Order Details

## Order codes

No details for standard products



## Order examples

15 off DG 6 -ZK2 / 600 x 100 / 44 / P1 / RAL9006  
 24 off DG 8 SL -AK1 / 900 x 200

## Text for tendering purposes

### Type DG6

Diffusion grille with vertical (in front) and horizontal (behind) blades in streamlined form. Blades space 16.66 mm, dimension of the border 25 mm with gasket of foamed plastics, fastening by screw (sinkholes in the border). With screw-mounted damper consisting of coupled vertical opposed blade damper.

### Material

Grille: Steel powder coated RAL 9010, silky sheen, 60% brilliance.

Opposed blade damper: Steel galvanized,  
 Blades: Aluminum raw.

### Type DG8

Diffusion grille with vertical blades in streamlined form. Blades space 16.66 mm, dimension of the border 25 mm with gasket of foamed plastics, fastening by screw (sinkholes in the border). With screw-mounted damper consisting of coupled vertical opposed blade damper.

### Material

Grille: Steel powder coated RAL 9010, silky sheen, 60% brilliance.

Opposed blade damper: Steel galvanized,  
 Blades: Aluminum raw.