

## DG Double Deflection Ceiling Diffuser

### Materials

- DG-T: 0.6mm SPGC galvanized steel.

### Surface Finish

- White powder coated, oven baked as standard.

### Features

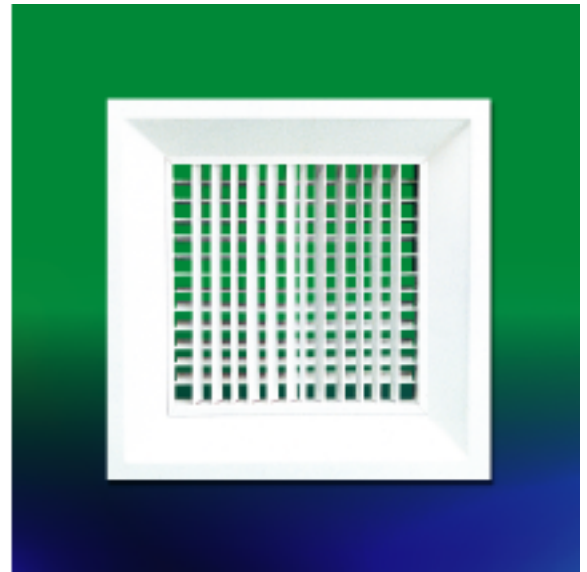
- The diffuser core in the center is made of double deflection blade, which enables more air distribution in the perpendicular direction. It is suitable for high ceiling installation.

### Accessories

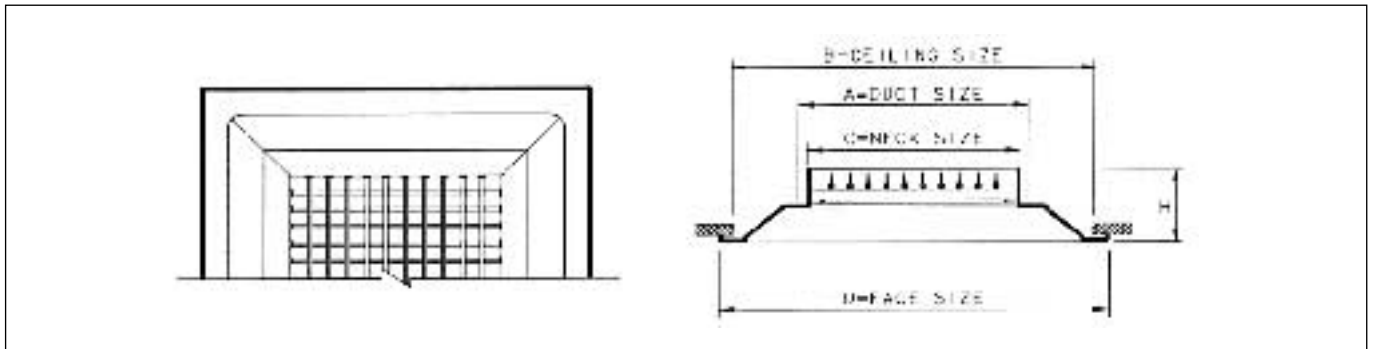
- G1 Opposed blade damper.
- C1 Radial fan blade damper.
- C2 Crown damper.

### Standard Sizes

- Comply to requirements for both square & rectangular diffuser.



### DG Construction Illustrations



### DG Physical Dimension Unit:mm

C - Neck Size	A - Duct Size	B - Ceiling Size	D - Face Size	H - Height
200 x 200	210 x 210	370 x 370	410 x 410	89
250 x 250	260 x 260			
285 x 285	295 x 295			
365 x 365	375 x 375	450 x 450	490 x 490	
480 x 480	485 x 485	555 x 555	603 x 603	

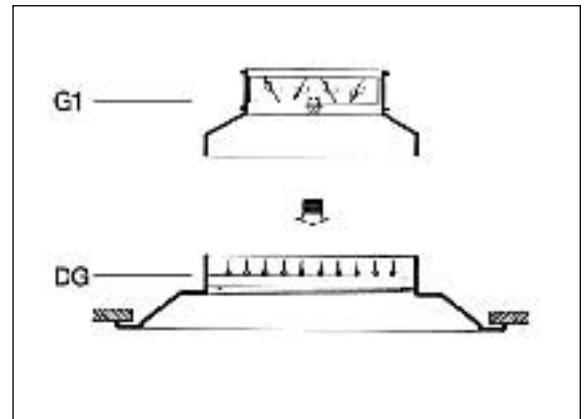
### DG Product Specification Unit:mm

Model	Materials	Surface Finish	Standard Sizes	Accessories	Order Key
DG-T	0.6 SPGC Steel	White Powder Coat, Oven Baked	200 x 200 250 x 250 285 x 285 365 x 365	G1 Opposed Blade Damper  C1 Radial Fan Blade Damper  C2 Crown Damper	$DG - T + C1 - 250$ Model                      Materials                      Accessories                      Neck Size

## DG Double Deflection Ceiling Diffuser

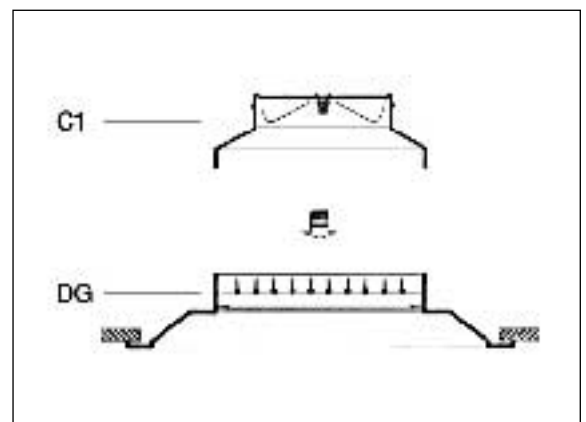
### ■ DG + G1 Opposed Blade Damper

- The G1 OBD damper is designed for even distribution of air over the entire face of diffuser. It is gear operated & can be adjusted from below by means of key or screw driver. The damper can be set at fully open, half open & fully close.
- G1 damper are constructed of galvanized steel with matt black as standard finish.
- Height for G1-T 50mm.



### ■ DG + C1 Radial Fan Blade Damper

- With C1 radial fan blade damper fitted to the DG diffuser, it will enable easy installation of flexible duct.
- The C1 are constructed of 0.6mm galvanized steel with matt black as standard finish.
- Air balancing can be done by adjusting the damper.
- Height for C1-T 60mm.



### ■ DG Performance Data (Square Inlet)

Neck Size mm	Neck Vel. (m/s)		2	2.5	3	3.5	4	4.5	5
	Total Press (mmAq)								
200 x 200 (0.04)	CMH	22°	0.8	1.4	1.9	2.4	3.2	4.2	5.1
		45°	1.1	2.0	2.5	3.8	5.0	6.4	7.8
	NC		-	-	-	24	28	30	33
250 x 250 (0.0625)	CMH	22°	2.6 - 4.5	3.3 - 5.0	3.9 - 5.6	4.3 - 6.1	4.6 - 6.6	5.0 - 7.0	5.1 - 7.2
		45°	1.6 - 2.7	2.2 - 3.1	2.4 - 3.4	2.7 - 3.7	3.0 - 4.0	3.1 - 4.2	3.3 - 4.5
	NC		-	-	21	26	29	32	37
285 x 285 (0.081)	CMH	22°	40 - 6.9	4.9 - 7.7	6.0 - 8.4	6.6 - 9.0	7.0 - 9.8	7.4 - 10.3	7.8 - 10.9
		45°	2.6 - 4.2	3.2 - 4.7	3.8 - 5.3	4.1 - 5.7	4.4 - 6.1	4.6 - 6.4	5.0 - 6.6
	NC		-	-	23	27	32	35	39
365 x 365 (0.133)	CMH	22°	9.57	11.97	14.36	16.75	19.15	21.54	23.94
		45°	4.5 - 8.0	5.6 - 9.0	7.0 - 9.7	7.5 - 10.6	8.0 - 11.2	8.6 - 11.8	9.0 - 12.5
	NC		-	-	24	29	33	36	40
480 x 480 (0.225)	CMH	22°	16.20	20.25	24.30	28.35	32.40	36.45	40.50
		45°	7.9 - 13.5	9.6 - 15.2	11.4 - 16.4	12.7 - 17.8	13.8 - 19.2	14.7 - 20.3	15.6 - 21.2
	NC		-	22	26	31	36	39	41

- Throw is based on terminal velocities of 0.5 m/s - 0.25 m/s respectively.
- NC value is based on a room absorption of 10 dB, re 10<sup>-12</sup> watts.
- Dash (-) in space indicates NC value less than 20.
- With C1 damper, the pressure loss is 1.136P. And add 2 for for NC value.