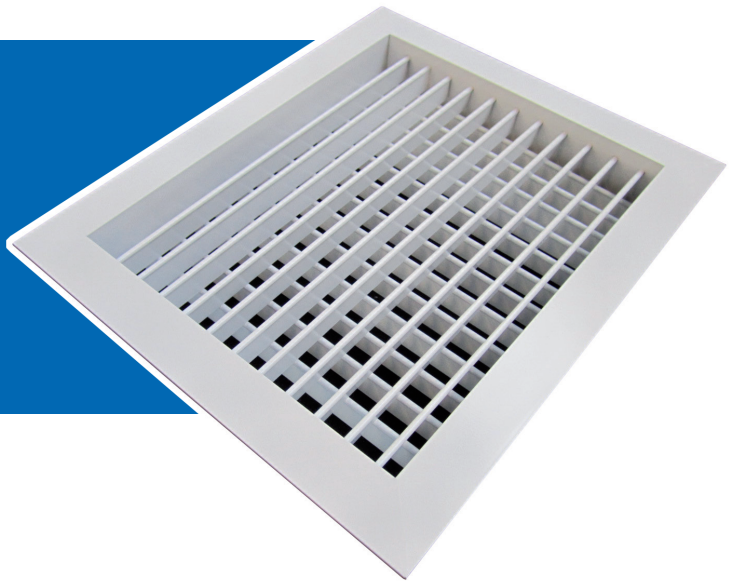
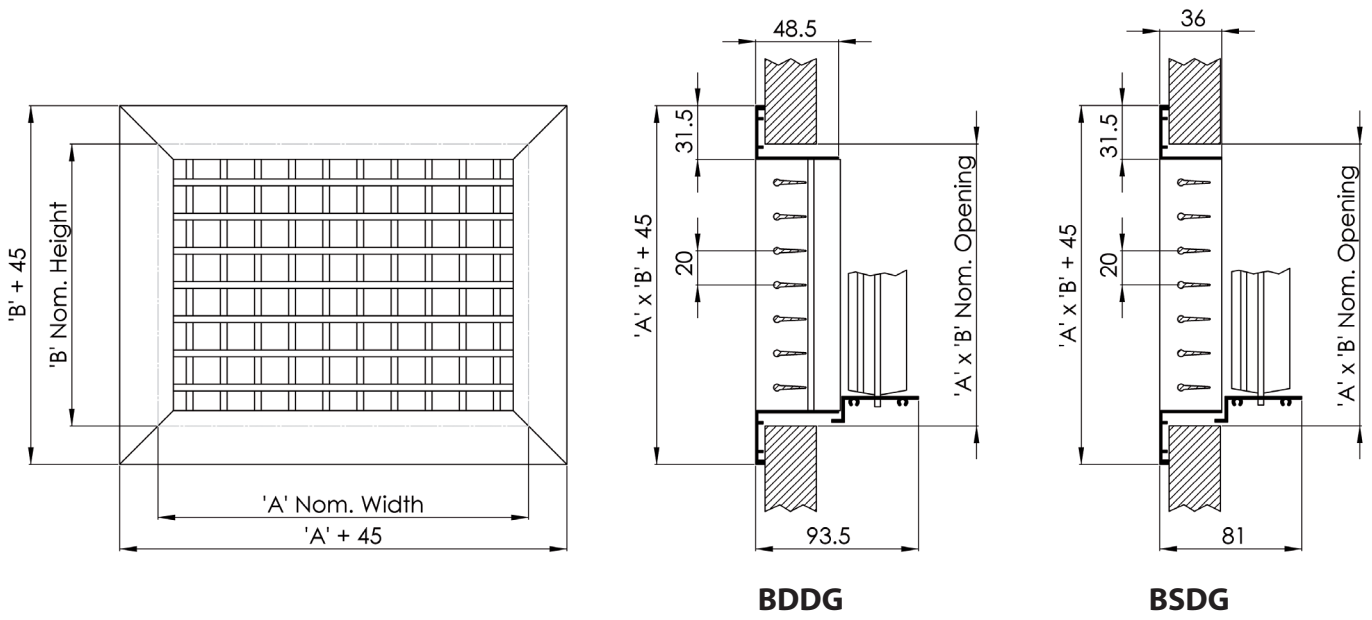
briteair

Single & Double Deflection Grille

Suitable for both supply and return air and can be either wall, ceiling or duct mounted. The adjustable blades give excellent on-site flexibility as they can be manually set to achieve the air direction and comfort criteria required to suit the Clients application.





BDDG **BSDG**

How to Order

Type		Damper	Frame	Fixings	Size	RAL Colour
BDDG	Double Deflection Grille	D - OBD	F - Standard Flange	SF - Flange Holes	300 x 300	RAL 9010
BSDG	Single Deflection Grille	0 - No OBD		0 - No Flange Holes		

e.g. 10 No BDDG - D - F - SF - 250 x 250 - RAL 9010 - Double Deflection Grille c/w OBD and Face Fixings

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Performance Data

All data is based on Isothermal conditions and mounted within 0.3 metres from the ceiling. For grilles mounted more than 0.3 metres away from the ceiling, multiply the throw x 0.7.

Grille Spacing Recommendations

When using multiple outlets, the grilles should be positioned with the following spacing recommendations to achieve good air distribution.

0º Vane Setting	Grilles should be mounted on minimum equal centres to 25% of the throw (Lt)
22º Vane Setting	Grilles should be mounted on minimum equal centres to 45% of the throw (Lt)
45º Vane Setting	Grilles should be mounted on minimum equal centres to 70% of the throw (Lt)

Terminal Velocity Correction Factors

All data regarding throws are based on a terminal velocity of 0.25 m/s.

Vt (m/s)	0.25	0.4	0.5	0.7
	x1.0	x0.62	x0.5	x0.35

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Size	Nom M²	Blade	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°
Nom M² 0.0225	Air Vol	l/s		20			30			40			50			60			70	
150 x 150	Throw	Lt	1.9	1.5	0.8	2.8	2.2	1.2	3.7	3.0	1.6	4.7	3.8	2.1	5.6	4.5	2.5	6.5	5.2	2.9
200 x 100	Noise Level	NC	-	-	-	16	17	19	21	22	25	25	26	30	30	31	35	34	35	40
	Pressure	Pa	1	1	2	2	2	3	3	4	5	5	6	8	7	8	11	9	11	14
Nom M² 0.04	Air Vol	l/s		30			40			50			60			70			80	
	Throw	Lt	2.1	1.7	0.9	2.8	2.2	1.2	3.5	2.8	1.5	4.2	3.4	1.8	4.9	3.9	2.2	5.6	4.5	2.5
200 x 200	Noise Level	NC	-	-	-	-	-	-	16	17	19	18	19	21	21	22	25	23	24	27
250 x 150	Pressure	Pa	1	1	2	1	1	2	1	1	2	2	2	3	3	4	5	4	5	6
400 x 100	Air Vol	l/s		90			100			110			120			130			140	
	Throw	Lt	6.3	5.0	2.8	7.0	5.6	3.1	7.7	6.2	3.4	8.4	6.7	3.7	9.1	7.3	4.0	9.8	7.8	4.3
	Noise Level	NC	26	27	31	28	29	33	31	32	37	33	34	39	36	37	42	38	40	45
	Pressure	Pa	5	6	8	6	7	9	7	8	11	8	10	12	10	12	15	11	13	17
Nom M² 0.0625	Air Vol	l/s		60			70			80			90			100			110	
	Throw	Lt	3.4	2.7	1.5	3.9	3.1	1.7	4.5	3.6	2.0	5.0	4.0	2.2	5.6	4.5	2.5	6.2	5.0	2.7
250 x 250	Noise Level	NC	-	-	-	-	-	-	16	17	19	17	18	20	19	20	22	21	22	25
300 x 200	Pressure	Pa	1	1	2	1	1	2	2	2	3	2	2	3	2	2	3	3	4	5
400 x 150	Air Vol	l/s		130			150			175			200			225			250	
	Throw	Lt	7.3	5.8	3.2	8.4	6.7	3.7	9.8	7.8	4.3	11.2	9.0	4.9	12.6	10.1	5.5	14.0	11.2	6.2
	Noise Level	NC	24	25	28	27	28	32	31	32	37	35	36	41	39	41	46	43	45	51
	Pressure	Pa	4	5	6	5	6	8	7	8	11	10	12	15	12	14	18	15	18	23
Nom M² 0.09	Air Vol	l/s		90			100			110			120			140			160	
	Throw	Lt	4.2	3.4	1.8	4.7	3.8	2.1	5.1	4.1	2.2	5.6	4.5	2.5	6.5	5.2	2.9	7.5	6.0	3.3
300 x 300	Noise Level	NC	-	-	-	-	-	-	-	-	-	16	17	19	19	20	22	21	22	25
350 x 250	Pressure	Pa	1	1	2	1	1	2	1	1	2	2	2	3	2	2	3	3	4	5
450 x 200	Air Vol	l/s		175			200			225			250			275			300	
600 x 150	Throw	Lt	8.2	6.6	3.6	9.3	7.4	4.1	10.5	8.4	4.6	11.7	9.4	5.1	12.8	10.2	5.6	14.0	11.2	6.2
	Noise Level	NC	22	23	26	25	26	30	28	29	33	31	32	37	34	35	40	36	37	42
	Pressure	Pa	4	5	6	5	6	8	6	7	9	7	8	11	9	11	14	10	12	15
Nom M² 0.1225	Air Vol	l/s		120			140			160			180			200			225	
	Throw	Lt	4.8	3.8	2.1	5.6	4.5	2.5	6.4	5.1	2.8	7.2	5.8	3.2	8.0	6.4	3.5	9.0	7.2	4.0
350 x 350	Noise Level	NC	-	-	-	-	-	-	16	17	19	18	19	21	19	20	22	21	22	25
400 x 300	Pressure	Pa	1	1	2	1	1	2	2	2	3	2	2	3	2	2	3	3	4	5
500 x 250	Air Vol	l/s		250			275			300			325			350			400	
600 x 200	Throw	Lt	10.0	8.0	4.4	11.0	8.8	4.8	12.0	9.6	5.3	13.0	10.4	5.7	14.0	11.2	6.2	16.0	12.8	7.0
	Noise Level	NC	23	24	27	25	26	30	27	28	32	30	31	35	32	33	38	36	37	42
	Pressure	Pa	4	5	6	5	6	8	6	7	9	7	8	11	8	10	12	10	12	15
Nom M² 0.16	Air Vol	l/s		150			175			200			225			250			275	
	Throw	Lt	5.3	4.2	2.3	6.1	4.9	2.7	7.0	5.6	3.1	7.9	6.3	3.5	8.8	7.0	3.9	9.6	7.7	4.2
400 x 400	Noise Level	NC	-	-	-	-	-	-	16	17	19	17	18	20	19	20	22	20	21	24
450 x 350	Pressure	Pa	1	1	2	1	1	2	1	1	2	2	2	3	2	2	3	3	4	5
550 x 300	Air Vol	l/s		300			325			350			375			400			500	
800 x 200	Throw	Lt	10.5	8.4	4.6	11.4	9.1	5.0	12.3	9.8	5.4	13.1	10.5	5.8	14.0	11.2	6.2	17.5	14.0	7.7
	Noise Level	NC	22	23	26	23	24	27	25	26	30	26	27	31	28	29	33	34	35	40
	Pressure	Pa	3	4	5	4	5	6	4	5	6	5	6	8	6	7	9	9	11	14
Nom M² 0.2025	Air Vol	l/s		200			225			250			275			300			325	
	Throw		6.2	5.0	2.7	7.0	5.6	3.1	7.8	6.2	3.4	8.6	6.9	3.8	9.3	7.4	4.1	10.1	8.1	4.4
450 x 450	Noise Level	NC	-	-	-	-	-	-	15	16	18	17	18	20	18	19	21	19	20	22
500 x 400	Pressure	Pa	1	1	2	1	1	2	1	1	2	2	2	3	2	2	3	2	2	3
600 x 350	Air Vol	l/s		350			400			450			500			550			600	
800 x 250	Throw	Lt	10.9	8.7	4.8	12.4	9.9	5.5	14.0	11.2	6.2	15.6	12.5	6.9	17.1	13.7	7.5	18.7	15.0	8.2
	Noise Level	NC	20	21	24	23	24	27	25	26	30	28	29	33	30	31	35	33	34	39
	Pressure	Pa	3	4	5	4	5	6	5	6	8	6	7	9	7	8	11	8	10	12

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Performance Data

Size	Nom M²	Blade	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°
Nom M² 0.25	Air Vol	l/s	250			275			300			325			350			375		
	Throw	Lt	7.0	5.6	3.1	7.7	6.2	3.4	8.4	6.7	3.7	9.1	7.3	4.0	9.8	7.8	4.3	10.5	8.4	4.6
500 x 500	Noise Level	NC	-	-	-	-	-	-	15	16	18	16	17	19	17	18	20	18	19	21
550 x 450	Pressure	Pa	1	1	2	1	1	2	1	1	2	2	2	3	2	2	3	2	2	3
650 x 400	Air Vol	l/s	400			450			500			550			600			650		
900 x 300	Throw	Lt	11.2	9.0	4.9	12.6	10.1	5.5	14.0	11.2	6.2	15.4	12.3	6.8	16.8	13.4	7.4	18.2	14.6	8.0
	Noise Level	NC	19	20	22	21	22	25	23	24	27	25	26	30	27	28	32	29	30	34
	Pressure	Pa	2	2	3	3	4	5	4	5	6	5	6	8	5	6	8	6	7	9
Nom M² 0.3025	Air Vol	l/s	300			325			350			375			400			450		
	Throw	Lt	7.6	6.1	3.3	8.3	6.6	3.7	8.9	7.1	3.9	9.5	7.6	4.2	10.2	8.2	4.5	11.5	9.2	5.1
550 x 550	Noise Level	NC	-	-	-	-	-	-	15	-	-	15	-	-	16	17	19	18	19	21
650 x 450	Pressure	Pa	-	-	-	-	-	-	1	-	-	1	-	-	2	2	3	2	2	3
750 x 400	Air Vol	l/s	500			550			600			650			700			750		
1000 x 300	Throw	Lt	12.7	10.2	5.6	14.0	11.2	6.2	15.3	12.2	6.7	16.5	13.2	7.3	17.8	14.2	7.8	19.1	15.3	8.4
	Noise Level	NC	20	21	24	21	22	25	23	24	27	24	25	28	26	27	31	28	29	33
	Pressure	Pa	3	4	5	3	4	5	4	5	6	4	5	6	5	6	8	6	7	9
Nom M² 0.36	Air Vol	l/s	300			325			350			375			400			450		
	Throw	Lt	7.0	5.6	3.1	7.6	6.1	3.3	8.2	6.6	3.6	8.8	7.0	3.9	9.3	7.4	4.1	10.5	8.4	4.6
600 x 600	Noise Level	NC	-	-	-	-	-	-	-	-	-	-	-	-	15	16	18	16	17	19
800 x 450	Pressure	Pa	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	1	1	2
900 x 400	Air Vol	l/s	500			550			600			650			700			750		
1200 x 300	Throw	Lt	11.7	9.4	5.1	12.8	10.2	5.6	14.0	11.2	6.2	15.2	12.2	6.7	16.3	13.0	7.2	17.5	14.0	7.7
	Noise Level	NC	17	18	20	18	19	21	20	21	24	21	22	25	22	23	26	24	25	28
	Pressure	Pa	2	2	3	2	2	3	3	4	5	3	4	5	4	5	6	4	5	6
Nom M² 0.48	Air Vol	l/s	500			550			600			650			700			750		
	Throw	Lt	10.1	8.1	4.4	11.1	1.0	4.9	12.0	9.6	5.3	13.0	10.4	5.7	14.0	11.2	6.2	15.2	12.2	6.7
800 x 600	Noise Level	NC	-	-	-	-	-	-	16	17	19	17	18	20	18	19	21	19	20	22
1000 x 500	Pressure	Pa	-	-	-	-	-	-	1	1	2	2	2	3	2	2	3	2	2	3
1200 x 400	Air Vol	l/s	800			850			900			950			1000			1050		
1600 x 300	Throw	Lt	16.2	13.0	7.1	17.0	13.6	7.5	18.0	14.4	7.9	19.0	15.2	8.4	20.0	16.0	8.8	21.0	16.8	9.2
	Noise Level	NC	20	21	24	21	22	25	22	23	26	23	24	27	24	25	28	25	26	30
	Pressure	Pa	3	4	5	3	4	5	3	4	5	4	5	6	4	5	6	4	5	6
Nom M² 0.6	Air Vol	l/s	600			650			700			750			800			850		
	Throw	Lt	10.8	8.6	4.8	11.7	9.4	5.1	12.7	10.2	5.6	13.6	10.9	6.0	14.5	11.6	6.4	15.4	12.3	6.8
1000 x 600	Noise Level	NC	-	-	-	-	-	-	15	16	18	16	17	19	16	17	19	17	18	20
1200 x 500	Pressure	Pa	-	-	-	-	-	-	1	1	2	1	1	2	2	2	3	2	2	3
1500 x 400	Air Vol	l/s	900			1000			1200			1400			1600			2000		
1800 x 350	Throw	Lt	16.3	13.0	7.2	18.1	14.5	8.0	21.7	17.4	9.5	25.3	20.2	11.1	28.9	23.1	12.7	36.1	28.9	15.9
	Noise Level	NC	18	-	-	20	-	-	23	24	27	26	27	31	30	31	35	36	37	42
	Pressure	Pa	2	2	3	3	4	5	4	5	6	5	6	8	7	8	11	10	12	15
Nom M² 0.72	Air Vol	l/s	600			650			700			750			800			850		
	Throw	Lt	9.9	7.9	4.4	10.7	8.6	4.7	11.5	9.2	5.1	12.4	9.9	5.5	13.2	10.6	5.8	14.0	11.2	6.2
1200 x 600	Noise Level	NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	16	18
1300 x 550	Pressure	Pa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
1450 x 500	Air Vol	l/s	900			1000			1200			1400			1600			2000		
1800 x 400	Throw		14.8	11.8	6.5	16.5	13.2	7.3	19.8	15.8	8.7	23.1	18.5	10.2	26.4	21.1	11.6	33.0	26.4	14.5
	Noise Level	NC	16	17	19	17	18	20	20	21	24	22	23	26	25	26	30	31	32	37
	Pressure	Pa	1	1	2	2	2	3	3	4	5	4	5	6	5	6	8	7	8	11

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