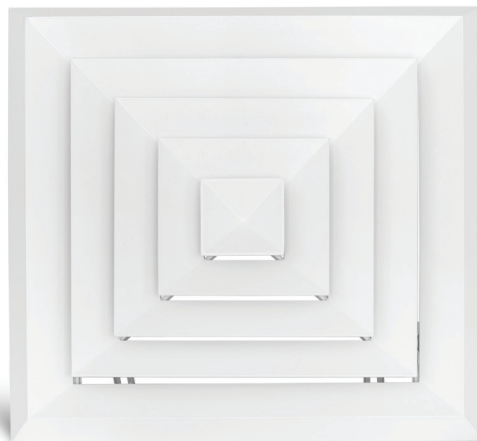


AIRFOIL



GRILLES
DUCT
FITTINGS

making it happen sooner...



BEVELLED FACE DIFFUSER (BD)

The Airfoil Bevelled Face Diffuser is a surface mounting model. The attractive 45 degree bevelled frame comes in standard white. It offers the advantage of a built-in anti-smudge frame for increased ceiling protection.

All sizes are available with a fixing clip neck adaptor with a choice of spigot sizes to suit the flexible duct. Used in domestic and commercial capacities, the BD is extremely effective in providing an even spread of air across the target area.

Louver Face Diffuser Options

> *Standard sizes: 150x150mm, 225x225mm, 300x300mm, 375x375mm, 450x450mm, 600x600mm. Special sizes are manufactured on request*

> *Available in 5 different patterns*
> *Non-standard colours or finishes available on request*

Product specification codes:

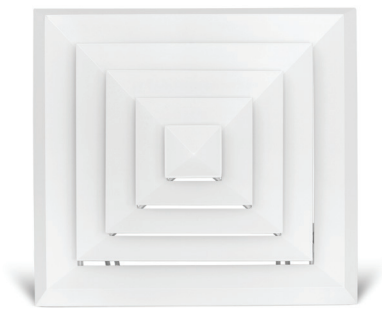
BD41 4 way blow diffuser
BD31 3 way blow diffuser
BD25 2 way corner blow diffuser
BD21 2 way opposite blow diffuser
BD11 1 way blow diffuser

Specification: Product code + size.
Example: **BD41 450x450** 4 way blow diffuser 450mm x 450mm

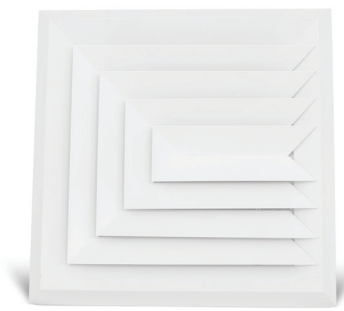
Important Note: Dimensions will be assumed nominal neck size unless otherwise specified.



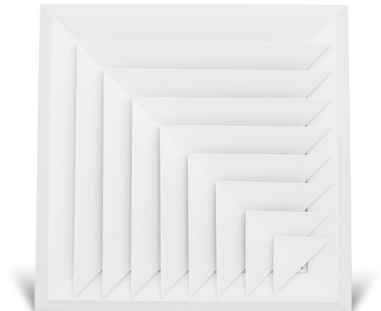
BEVELLED FACE DIFFUSER (BD)



4 WAY BLOW (BD41)



3 WAY BLOW (BD31)



2 WAY CORNER BLOW (BD25)

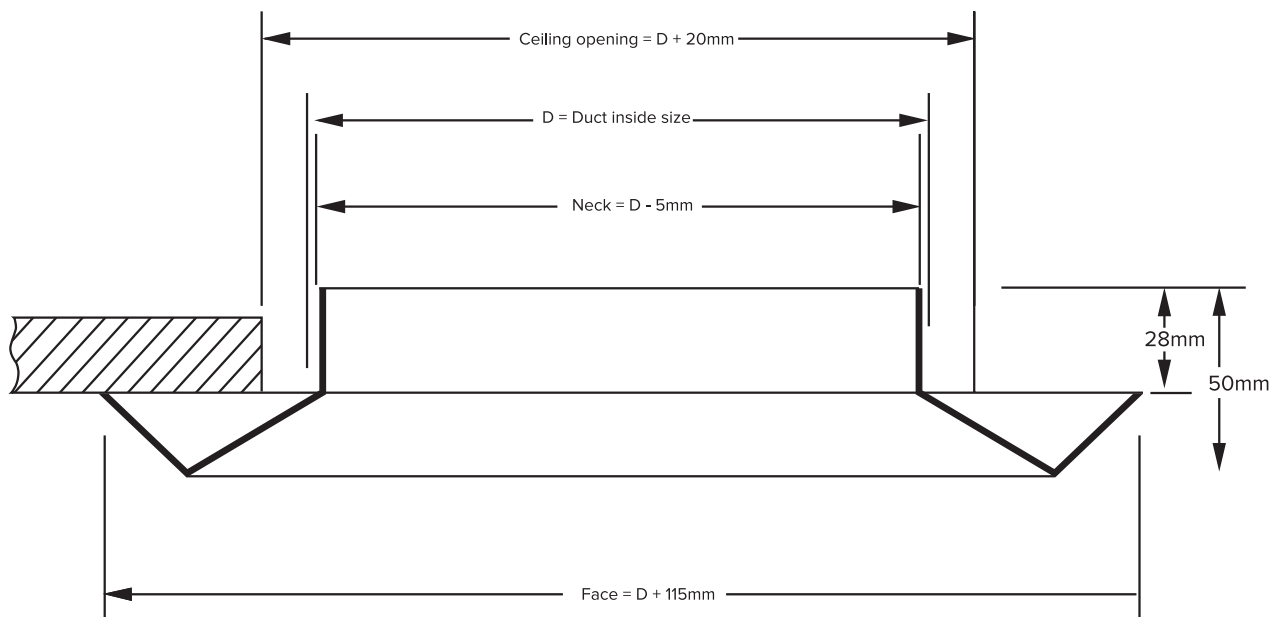


2 WAY BLOW (BD21)

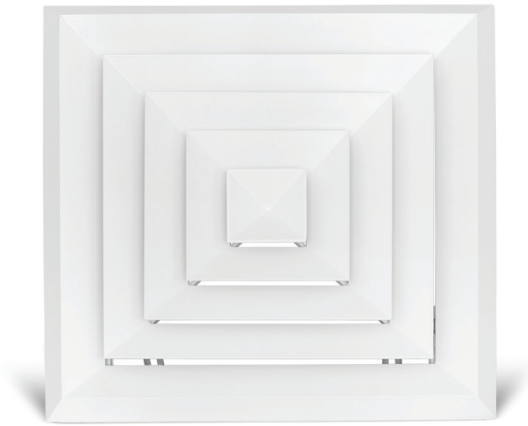


1 WAY BLOW (BD11)

Cross sectional diagram



BEVELLED FACE DIFFUSER 4 WAY BLOW (BD41)

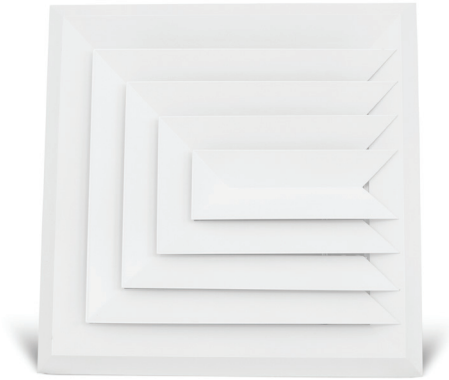


Performance Data: Neck Velocity (m/sec.)

Neck Area	Rating	1.5	2.0	2.5	3.0	3.5	
(sq. metre)	Total Pressure Drop in Pascals	10	15	23	33	44	
150x150	l/s	34	45	56	67	78	
	NR - dB	—	—	—	—	20	
	0.0225	NC - dB	—	—	—	19	
	Min - Max Throw (metres)	0.6-1.8	0.9-1.8	1.2-2.1	1.5-2.7	1.5-3.0	
225x225	l/s	76	101	127	152	177	
	NR - dB	—	—	—	22	27	
	0.0506	NC - dB	—	—	—	21	26
	Min - Max Throw (metres)	1.2-2.4	1.5-3.0	1.8-3.7	2.1-4.0	2.4-4.3	
300x300	l/s	135	180	225	270	315	
	NR - dB	—	—	22	28	32	
	0.0900	NC - dB	—	—	21	27	31
	Min - Max Throw (metres)	1.5-3.4	1.8-4.0	2.1-4.6	2.7-5.2	3.4-5.5	
375x375	l/s	210	260	345	421	490	
	NR - dB	—	21	27	31	38	
	0.1406	NC - dB	—	20	26	30	37
	Min - Max Throw (metres)	1.8-4.3	2.1-4.6	2.4-5.5	3.4-6.1	4.3-6.1	
450x450	l/s	304	405	506	607	708	
	NR - dB	—	25	30	34	40	
	0.2025	NC - dB	—	24	29	33	39
	Min - Max Throw (metres)	2.1-4.9	2.4-5.5	3.7-6.7	4.3-7.3	4.9-7.9	

Throw measurements are at 1.5mls min and .65mls max terminal velocity.

BEVELLED FACE DIFFUSER 3 WAY BLOW (BD3 1)

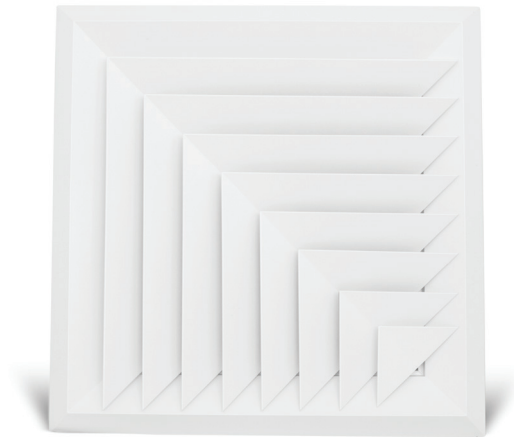


Performance Data: Neck Velocity (m/sec.)

Neck Area	Rating	1.5	2.0	2.5	3.0	3.5
(sq. metre)	Total Pressure Drop in Pascals	10	15	23	33	44
150x150 0.0225	l/s	34	45	56	67	78
	NR - dB	—	—	—	24	31
	NC - dB	—	—	—	23	30
	Min-Max Throw (metres)	L 0.6-2.1 S 0.6-1.8	1.2-2.4 0.9-1.8	1.2-2.7 0.9-2.1	1.5-3.0 1.2-2.4	1.8-3.4 1.2-2.7
225x225 0.0506	l/s	76	101	127	152	177
	NR - dB	—	—	23	29	35
	NC - dB	—	—	22	28	34
	Min-Max Throw (metres)	L 1.2-3.0 S 1.2-2.7	1.5-3.7 1.2-3.0	1.8-4.0 1.5-3.7	2.4-4.6 1.8-3.7	2.7-4.9 2.1-4.0
300x300 0.0900	l/s	135	180	225	270	315
	NR - dB	—	21	26	32	38
	NC - dB	—	20	25	31	37
	Min-Max Throw (metres)	L 1.5-4.3 S 1.2-3.7	2.1-4.9 1.5-3.7	2.4-5.5 2.1-4.0	3.0-5.5 2.4-4.9	3.7-6.4 3.0-5.2
375x375 0.1406	l/s	210	260	345	421	490
	NR - dB	—	23	29	34	40
	NC - dB	—	22	28	33	39
	Min-Max Throw (metres)	L 1.8-5.2 S 1.5-4.3	2.4-6.1 2.1-4.9	3.0-6.7 2.4-5.5	3.7-7.0 3.4-6.1	4.9-7.6 4.3-6.4
450x450 0.2025	l/s	304	405	506	607	708
	NR - dB	—	24	30	35	42
	NC - dB	—	23	29	34	41
	Min-Max Throw (metres)	L 2.4-6.4 S 1.8-4.9	3.0-7.3 2.4-5.8	4.0-8.2 3.4-6.7	4.9-8.8 4.0-7.3	5.5-9.4 4.6-7.6

Throw measurements are at 1.5mls min and .65mls max terminal velocity.

BEVELLED FACE DIFFUSER 2 WAY CORNER BLOW (BD25)



Performance Data: Neck Velocity (m/sec.)

Neck Area	Rating	1.5	2.0	2.5	3.0	3.5
(sq. metre)	Total Pressure Drop in Pascals	10	15	32	33	44
150x150	l/s	34	45	56	67	78
	NC - dB	—	—	—	24	30
	0.0225	—	—	—	23	29
	Min - Max Throw (metres)	0.9-2.4	1.5-3.0	1.5-3.0	2.1-3.7	2.4-4.0
225x225	l/s	76	101	127	152	177
	NR - dB	—	—	22	28	34
	0.0506	—	—	21	27	33
	Min - Max Throw (metres)	1.2-3.4	2.1-4.0	2.4-4.6	2.7-5.2	3.0-5.5
300x300	l/s	135	180	225	270	315
	NR - dB	—	21	26	31	37
	0.0900	—	20	25	30	36
	Min - Max Throw (metres)	1.8-4.6	2.4-5.5	3.0-6.1	4.0-6.4	4.3-7.0
375x375	l/s	210	260	345	421	490
	NR - dB	19	22	29	34	40
	0.1406	18	21	28	33	39
	Min - Max Throw (metres)	2.1-6.2	3.0-7.0	4.6-8.2	5.0-8.5	5.8-9.1
450x450	l/s	304	405	506	607	708
	NR - dB	—	23	30	35	41
	0.2025	—	22	29	34	40
	Min - Max Throw (metres)	2.7-7.0	3.7-8.2	4.6-9.1	5.5-10.0	6.7-10.9

Throw measurements are at 1.5mls min and .65mls max terminal velocity.

BEVELLED FACE DIFFUSER 2 WAY OPPOSITE BLOW (LFD21)



Performance Data Neck Velocity (m/sec.)

Neck Area	Rating	1.5	2.0	2.5	3.0	3.5	
(sq. metre)	Total Pressure Drop in Pascals	10	15	23	33	44	
225x225	I/s	76	101	127	152	177	
	NC - dB	—	—	23	29	35	
	0.0506	NC - dB	—	—	22	28	34
	Min - Max Throw (metres)	1.2-3.4	1.5-3.7	1.8-4.3	2.4-4.9	3.0-5.2	
300x300	I/s	135	180	225	270	315	
	NR - dB	—	21	26	32	38	
	0.0900	NC - dB	—	20	25	31	37
	Min - Max Throw (metres)	1.8-4.6	2.4-5.5	3.0-6.1	3.4-6.4	4.0-7.0	
375x375	I/s	210	260	345	421	490	
	NR - dB	—	23	28	34	40	
	0.1406	NC - dB	—	22	27	33	39
	Min - Max Throw (metres)	2.1-5.8	3.0-6.7	3.7-7.6	4.3-8.2	5.2-8.8	
450x450	I/s	304	405	506	607	708	
	NR - dB	—	24	30	35	42	
	0.2025	NC - dB	—	23	29	34	41
	Min - Max Throw (metres)	2.7-7.3	4.0-8.5	4.9-9.1	5.8-10.0	7.0-10.9	

Throw measurements are at 1.5m/s min and 0.65m/s max terminal velocity.

BEVELLED FACE DIFFUSER 1 WAY (BD11)



Performance Data: Neck Velocity (m/sec.)

Neck Area	Rating	1.5	2.0	2.5	3.0	3.5	
(sq. metre)	Total Pressure Drop in Pascals	10	15	23	33	44	
150x150	l/s	34	45	56	67	78	
	NR - dB	—	—	—	22	29	
	0.0225	NC - dB	—	—	21	28	
	Min - Max Throw (metres)	1.2-3.4	1.5-3.7	2.1-4.0	2.7-4.6	3.0-5.2	
225x225	l/s	76	101	127	152	177	
	NR - dB	—	—	22	27	33	
	0.0506	NC - dB	—	—	21	26	32
	Min - Max Throw (metres)	1.8-5.2	2.4-5.5	3.4-6.4	4.0-7.0	4.6-7.9	
300x300	l/s	135	180	225	270	315	
	NR - dB	—	21	25	30	36	
	0.0900	NC - dB	—	20	24	29	35
	Min - Max Throw (metres)	2.4-6.7	3.4-7.9	4.3-8.5	5.5-9.1	6.1-10.0	
375x375	l/s	210	260	345	421	490	
	NR - dB	17	23	27	33	39	
	0.1406	NC - dB	16	22	26	32	38
	Min - Max Throw (metres)	3.0-7.0	3.7-10.0	5.5-10.7	6.1-11.0	8.0-13.0	
450x450	l/s	304	405	506	607	708	
	NR - dB	—	24	29	34	41	
	0.2025	NC - dB	—	23	28	33	40
	Min - Max Throw (metres)	3.4-7.0	4.0-10.3	5.8-11.0	6.4-11.3	8.2-13.4	

Throw measurements are at 1.5m/s min and .65m/s max terminal velocity.