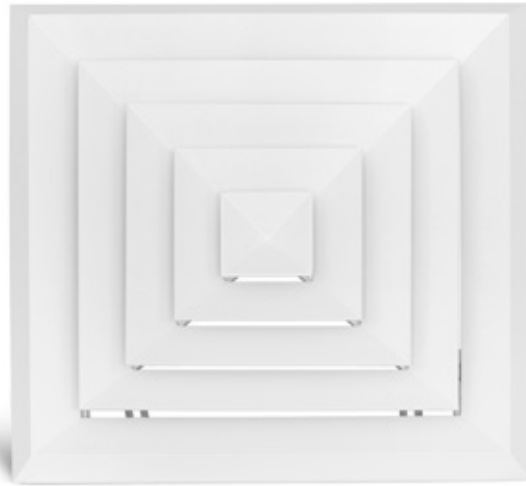


# AIRFOIL



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.

### Bevelled Face Diffuser Options

> *Standard sizes: 150x150mm,  
225x225mm, 300x300mm,  
375x375mm, 450x450mm,  
600x600mm*

> *Available in 5 different  
patterns*

> *Special sizes are  
manufactured 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)**

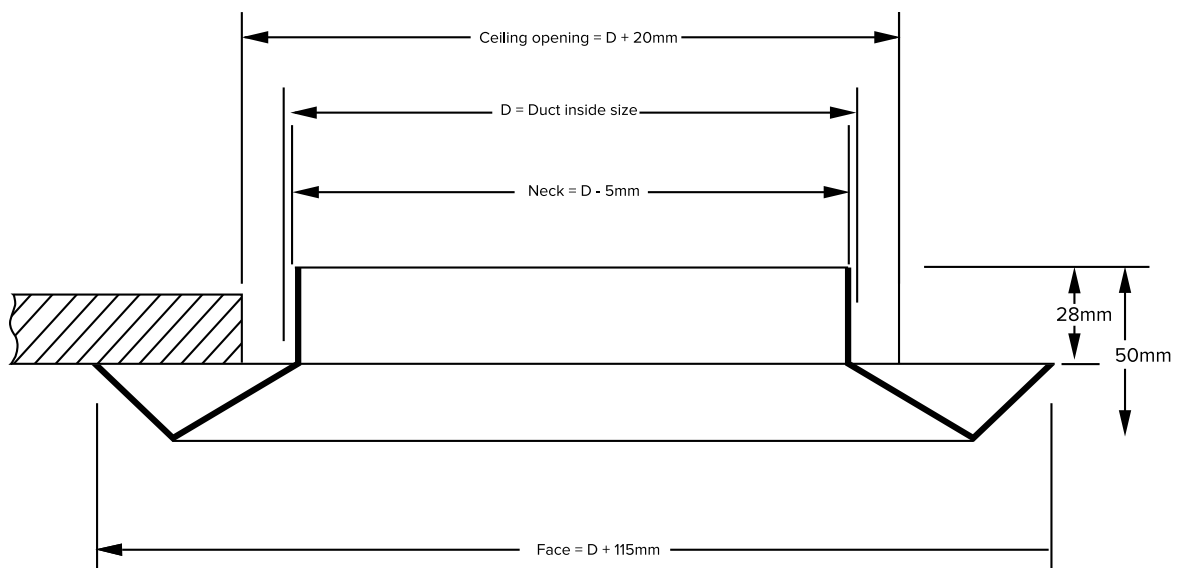


**1 WAY BLOW (BD11)**



**2 WAY BLOW (BD21)**

## 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	

# 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	32	33	44
150x150 0.0225	l/s	34	45	56	67	78
	NC - dB	—	—	—	24	30
	NC - dB	—	—	—	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 0.0506	l/s	76	101	127	152	177
	NR - dB	—	—	22	28	34
	NC - dB	—	—	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 0.0900	l/s	135	180	225	270	315
	NR - dB	—	21	26	31	37
	NC - dB	—	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 0.1406	l/s	210	260	345	421	490
	NR - dB	19	22	29	34	40
	NC - dB	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 0.2025	l/s	304	405	506	607	708
	NR - dB	—	23	30	35	41
	NC - dB	—	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

# 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. merte)	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

# 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 0.0506	l/s	76	101	127	152	177
	NC - dB	—	—	23	29	35
	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 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)	1.8-4.6	2.4-5.5	3.0-6.1	3.4-6.4	4.0-7.0
375x375 0.1406	l/s	210	260	345	421	490
	NR - dB	—	23	28	34	40
	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 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)	2.7-7.3	4.0-8.5	4.9-9.1	5.8-10.0	7.0-10.9

# 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 0.0225	l/s	34	45	56	67	78
	NR - dB	—	—	—	22	29
	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 0.0506	l/s	76	101	127	152	177
	NR - dB	—	—	22	27	33
	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 0.0900	l/s	135	180	225	270	315
	NR - dB	—	21	25	30	36
	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 0.1406	l/s	210	260	345	421	490
	NR - dB	17	23	27	33	39
	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 0.2025	l/s	304	405	506	607	708
	NR - dB	—	24	29	34	41
	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

# BEVELLED FACE DIFFUSER (BD)

## Product ordering codes:

<b>BD41 600x600</b>	4 way blow diffuser 600mm x 600mm
<b>BD41 450x450</b>	4 way blow diffuser 450mm x 450mm
<b>BD31 450x450</b>	3 way blow diffuser 450mm x 450mm
<b>BD25 450x450</b>	2 way corner blow diffuser 450mm x 450mm
<b>BD21 450x450</b>	2 way opposite blow diffuser 450mm x 450mm
<b>BD11 450x450</b>	1 way blow diffuser 450mm x 450mm
<b>BD41 375x375</b>	4 way blow diffuser 375mm x 375mm
<b>BD31 375x375</b>	3 way blow diffuser 375mm x 375mm
<b>BD25 375x375</b>	2 way corner blow diffuser 375mm x 375mm
<b>BD21 375x375</b>	2 way opposite blow diffuser 375mm x 375mm
<b>BD11 375x375</b>	1 way blow diffuser 375mm x 375mm
<b>BD41 300x300</b>	4 way blow diffuser 300mm x 300mm
<b>BD31 300x300</b>	3 way blow diffuser 300mm x 300mm
<b>BD25 300x300</b>	2 way corner blow diffuser 300mm x 300mm
<b>BD21 300x300</b>	2 way opposite blow diffuser 300mm x 300mm
<b>BD11 300x300</b>	1 way blow diffuser 300mm x 300mm
<b>BD41 225x225</b>	4 way blow diffuser 225mm x 225mm
<b>BD31 225x225</b>	3 way blow diffuser 225mm x 225mm
<b>BD25 225x225</b>	2 way corner blow diffuser 225mm x 225mm
<b>BD21 225x225</b>	2 way opposite blow diffuser 225mm x 225mm
<b>BD11 225x225</b>	1 way blow diffuser 225mm x 225mm
<b>BD41 150x150</b>	4 way blow diffuser 150mm x 150mm
<b>BD31 150x150</b>	3 way blow diffuser 150mm x 150mm
<b>BD25 150x150</b>	2 way corner blow diffuser 150mm x 150mm
<b>BD21 150x150</b>	2 way opposite blow diffuser 150mm x 150mm
<b>BD11 150x150</b>	1 way blow diffuser 150mm x 150mm

## AIRFOIL'S RECENT PROJECTS

