

AIRFOIL



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LOUVRE FACE DIFFUSER (LFD)

The Airfoil Louvre Face Diffuser is a frame style generally flush mounted to the ceiling line. This is ideal for lay-in applications where the diffuser is placed into a T-bar ceiling grid.

The Louvre Face Diffuser can be used in place of a modular ceiling tile without altering the T-bar construction.

Louvre Face Diffuser Options

> *Standard sizes: 150x150mm, 225x225mm, 300x300mm, 375x375mm, 395x395mm LAY IN FACE, 595x595mm LAY IN FACE. Special sizes manufactured on request*

> *Available in 5 different patterns*

> *Non standard colours or finishes available on request*

Product specification codes:

LFD41	4 way blow diffuser	LFD41/F	4 way blow diffuser LAY IN FACE
LFD31	3 way blow diffuser	LFD31/F	3 way blow diffuser LAY IN FACE
LFD25	2 way corner blow diffuser	LFD25/F	2 way corner blow diffuser LAY IN FACE
LFD22	2 way opposite blow diffuser	LFD22/F	2 way opposite blow diffuser LAY IN FACE
LFD21	1 way blow diffuser	LFD21/F	1 way blow diffuser LAY IN FACE

Specification: Product code + size.

Example: **LFD41/F 395x395** 4 way blow diffuser 395mm x 395mm LAY IN FACE

LFD41 300x300 4 way blow diffuser 300mm x 300mm nominal neck

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



LOUVRE FACE DIFFUSER



4 WAY BLOW (LFD41)



3 WAY BLOW (LFD31)



2 WAY CORNER BLOW (LFD25)

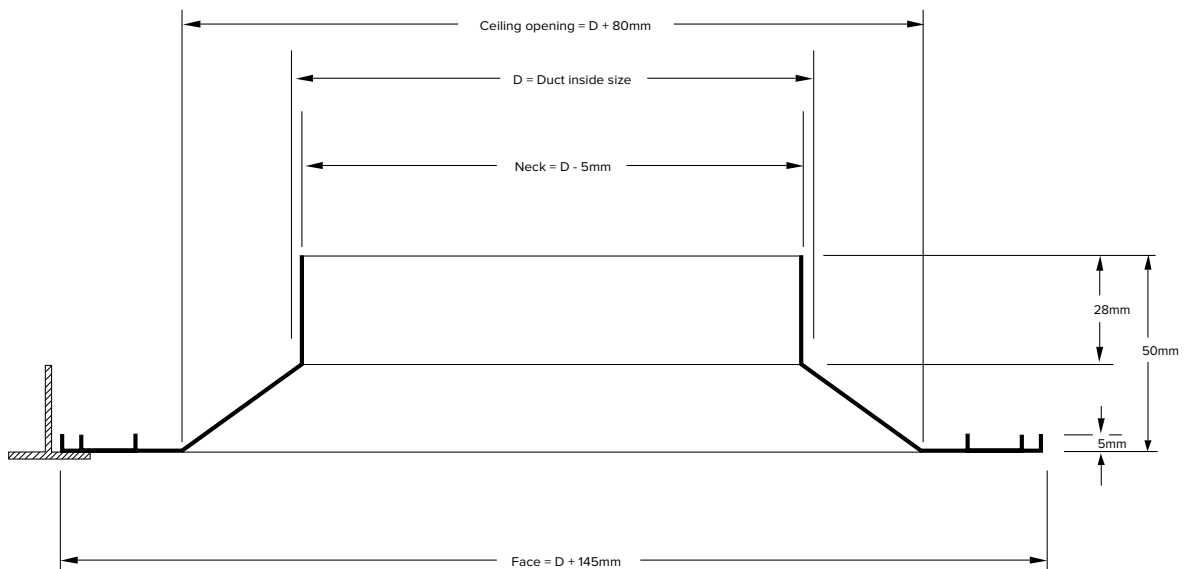


2 WAY OPPOSITE BLOW (LFD21)



1 WAY BLOW (LFD11)

Sectional diagram



LOUVRE FACE DIFFUSER 4 WAY BLOW (LFD41)



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	I/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	I/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	I/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	I/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	I/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	

LOUVRE FACE DIFFUSER 3 WAY BLOW (LFD31)



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	I/s	34	45	56	67	78
	NR - dB	—	—	—	24	31
	NC - dB	—	—	—	23	30
	Min-Max Throw (metres)	L 0.6-2.1	1.2-2.4	1.2-2.7	1.5-3.0	1.8-3.4
		S 0.6-1.8	0.9-1.8	0.9-2.1	1.2-2.4	1.2-2.7
225x225 0.0506	I/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	1.5-3.7	1.8-4.0	2.4-4.6	2.7-4.9
		S 1.2-2.7	1.2-3.0	1.5-3.7	1.8-3.7	2.1-4.0
300x300 0.0900	I/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	2.1-4.9	2.4-5.5	3.0-5.5	3.7-6.4
		S 1.2-3.7	1.5-3.7	2.1-4.0	2.4-4.9	3.0-5.2
375x375 0.1406	I/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	2.4-6.1	3.0-6.7	3.7-7.0	4.9-7.6
		S 1.5-4.3	2.1-4.9	2.4-5.5	3.4-6.1	4.3-6.4
450x450 0.2025	I/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	3.0-7.3	4.0-8.2	4.9-8.8	5.5-9.4
		S 1.8-4.9	2.4-5.8	3.4-6.7	4.0-7.3	4.6-7.6

LOUVRE FACE DIFFUSER 2 WAY CORNER BLOW (LFD25)



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	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	l/s	76	101	127	152	177	
	NR - dB	—	—	22	28	34	
	0.0506	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	l/s	135	180	225	270	315	
	NR - dB	—	21	26	31	37	
	0.0900	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	l/s	210	260	345	421	490	
	NR - dB	19	22	29	34	40	
	0.1406	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	l/s	304	405	506	607	708	
	NR - dB	—	23	30	35	41	
	0.2025	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	

LOUVRE 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	

LOUVRE FACE DIFFUSER 1 WAY (LFD11)



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	

LOUVRE FACE DIFFUSER

Product ordering codes:

LFD41/F 595x595	4 way blow diffuser 595mm x 595mm LAY IN FACE STYLE
LFD31/F 595x595	3 way blow diffuser 595mm x 595mm LAY IN FACE STYLE
LFD25/F 595x595	2 way corner blow diffuser 595mm x 595mm LAY IN FACE STYLE
LFD21/F 595x595	2 way opposite blow diffuser 595mm x 595mm LAY IN FACE STYLE
LFD11/F 595x595	1 way blow diffuser 595mm x 595mm LAY IN FACE STYLE
LFD41/F 395x395	4 way blow diffuser 395mm x 395mm LAY IN FACE STYLE
LFD31/F 395x395	3 way blow diffuser 395mm x 395mm LAY IN FACE STYLE
LFD25/F 395x395	2 way corner blow diffuser 395mm x 395mm LAY IN FACE STYLE
LFD21/F 395x395	2 way opposite blow diffuser 395mm x 395mm LAY IN FACE STYLE
LFD11/F 395x395	1 way blow diffuser 395mm x 395mm LAY IN FACE STYLE
LFD41 375x375	4 way blow diffuser 375mm x 375mm
LFD31 375x375	3 way blow diffuser 375mm x 375mm
LFD25 375x375	2 way corner blow diffuser 375mm x 375mm
LFD21 375x375	2 way opposite blow diffuser 375mm x 375mm
LFD11 375x375	1 way blow diffuser 375mm x 375mm
LFD41 300x300	4 way blow diffuser 300mm x 300mm
LFD31 300x300	3 way blow diffuser 300mm x 300mm
LFD25 300x300	2 way corner blow diffuser 300mm x 300mm
LFD21 300x300	2 way opposite blow diffuser 300mm x 300mm
LFD11 300x300	1 way blow diffuser 300mm x 300mm
LFD41 225x225	4 way blow diffuser 225mm x 225mm
LFD31 225x225	3 way blow diffuser 225mm x 225mm
LFD25 225x225	2 way opposite blow diffuser 225mm x 225mm
LFD21 225x225	2 way opposite blow diffuser 150mm x 150mm
LFD11 225x225	1 way blow diffuser 225mm x 225mm
LFD41 150x150	4 way blow diffuser 150mm x 150mm
LFD31 150x150	3 way blow diffuser 150mm x 150mm
LFD25 150x150	2 way corner blow diffuser
LFD21 150x150	2 way opposite blow diffuser 150mm x 150mm
LFD11 150x150	1 way blow diffuser 150mm x 150mm

AIRFOIL'S RECENT PROJECTS

