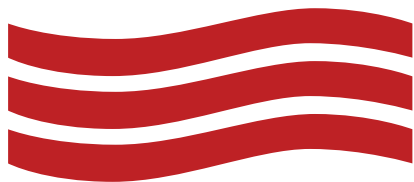


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**LOUVRE FACE DIFFUSER
LFD21**



LOUVRE FACE DIFFUSER – TWO WAY OPPOSITE BLOW LFD21

PRODUCT DESCRIPTION AND APPLICATION

Airfoil's premium Louvre Face Diffuser 2 Way Opposite Blow (LFD21) offers a sophisticated multi-core supply air pattern. Designed for surface mounting, this diffuser is typically installed flush with the ceiling line.

Its versatile frame style is well-suited for lay-in applications, seamlessly integrating into metric exposed T-Bar ceiling grids without modification. Additionally, it can be effortlessly laid into modular ceiling tiles without altering the T-Bar construction. The Louvred Diffuser cone pattern ensures uniform airflow distribution, making it suitable for both heating and cooling purposes.

Extruded from Airfoil's finest aluminium, the diffuser features a quick-release core for easy access and installation. Available in 7 different sizes, each diffuser size can be accompanied by a separate T-Bar Frame (TBF), simplifying the installation process. The diffuser is simply laid into the accompanying T-Bar Frame (TBF) for installation into a traditional plasterboard ceiling.

This popular and visually appealing diffuser is available in our standard white range but can also be powder-coated to any specific colour. The LFD21 is ideal for various applications including airports, hospitals, office spaces, shopping centres, schools, or any building where uniform air distribution is essential.

LOUVRE FACE DIFFUSER – TWO WAY OPPOSITE BLOW LFD21

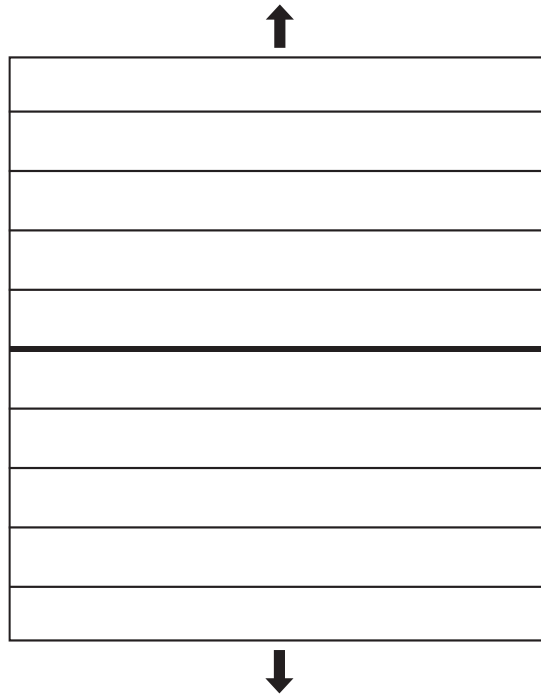
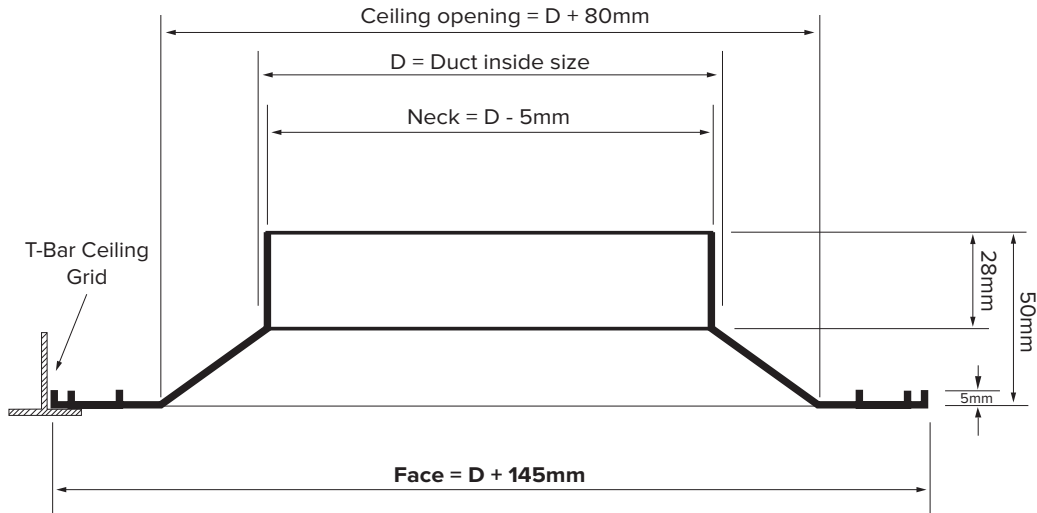
PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – LFD21**
- Aluminium construction
- Multi-Core 2 Way Opposite Blow supply air pattern
- Face Sizes available: 595mm x 595mm Face Size, 395mm x 395mm Face Size,
- Neck Sizes available: 450mm x 450mm Neck Size, 375mm x 375mm Neck Size, 300mm x 300mm Neck Size, 225mm x 225mm Neck Size, 150mm x 150mm Neck Size
- Suited to ceiling grid and flush mounted applications
- Quick release removable core for access and installation
- Suited to heating and cooling outcomes
- Available in standard white
- In stock
- Special powder-coated colours available on request
- Available with accompanying Airfoil T-Bar Frame (TBF) for plaster board ceiling applications
- Product suitable for airports, hospitals, office spaces, shopping centres, hotels, colleges, universities and most commercial or industrial buildings
- Available with Airfoil's Fixing Clip Square to Round Reducer Neck (FCRN), Square to Round Reducer Neck (RN) and Square to Square Reducer Neck (RN)
- Available with Airfoil Cushion Box (ICB) to suit LFD
- Airfoil tested information available
- **The following metric performance data has been derived from exhaustive testing in elaborate laboratories of acoustic and vibrational engineers Louis A. Challis and Associates Proprietary Limited. Darling Street, Sydney 2000**



LOUVRE FACE DIFFUSER – TWO WAY OPPOSITE BLOW LFD21

CROSS SECTIONAL DIAGRAM



DISCLAIMER:

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LOUVRE FACE DIFFUSER – TWO WAY OPPOSITE BLOW LFD21

PERFORMANCE DATA

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 1.5mls min and .65mls max terminal velocity.

LOUVRE FACE DIFFUSER – TWO WAY OPPOSITE BLOW LFD21

ORDERING CODES

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