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**LOUVRE FACE DIFFUSER  
LFD25**



## LOUVRE FACE DIFFUSER – TWO WAY CORNER BLOW LFD25

### PRODUCT DESCRIPTION AND APPLICATION

Airfoil's premium Louvre Face Diffuser 2 Way Corner Blow (LFD25) 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.

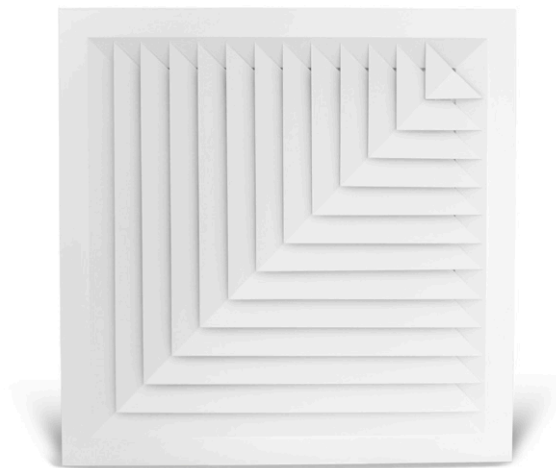
Extruded from Airfoil's finest aluminium, the diffuser features a quick-release core for easy access and installation. Available in 7 different sizes, each diffuser size can be accompanied by a separate T-Bar Frame (TBF), simplifying the installation process. The diffuser is simply laid into the accompanying 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 LFD25 is ideal for various applications including airports, hospitals, office spaces, shopping centres, schools, or any building where uniform air distribution is essential.

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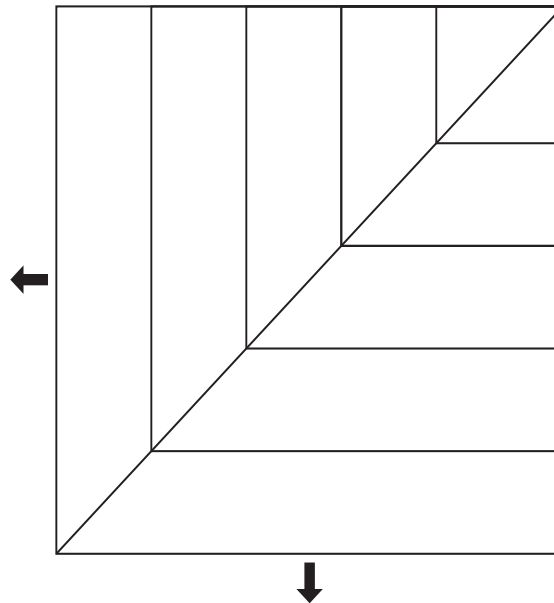
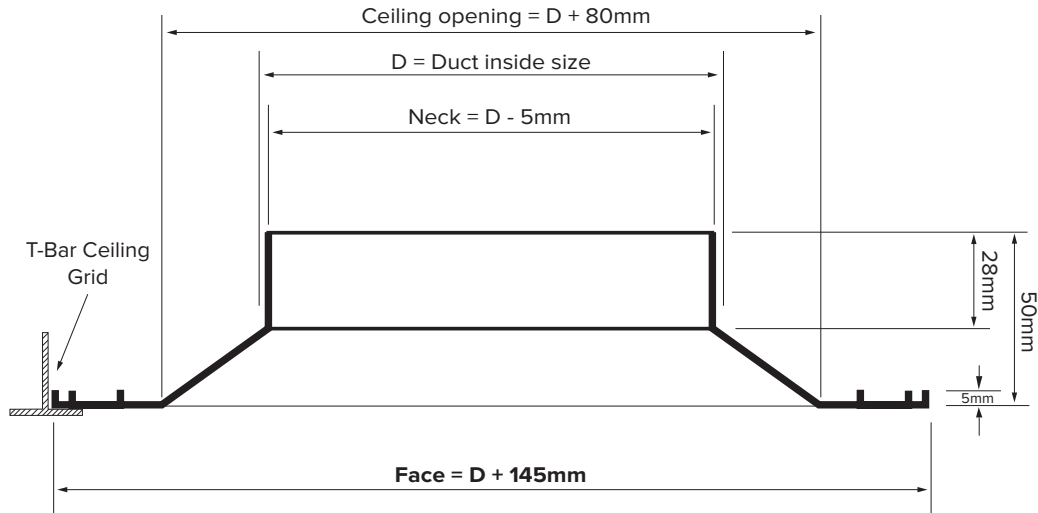
### PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – LFD25**
- Aluminium construction
- Multi-Core 2 Way Corner 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**



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### CROSS SECTIONAL DIAGRAM



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## LOUVRE FACE DIFFUSER – TWO WAY CORNER BLOW LFD25

### 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 CORNER BLOW LFD25

### ORDERING CODES

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