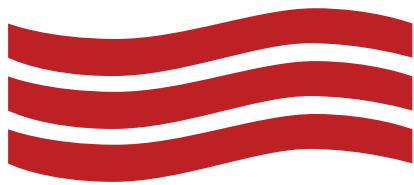


AIRFOIL

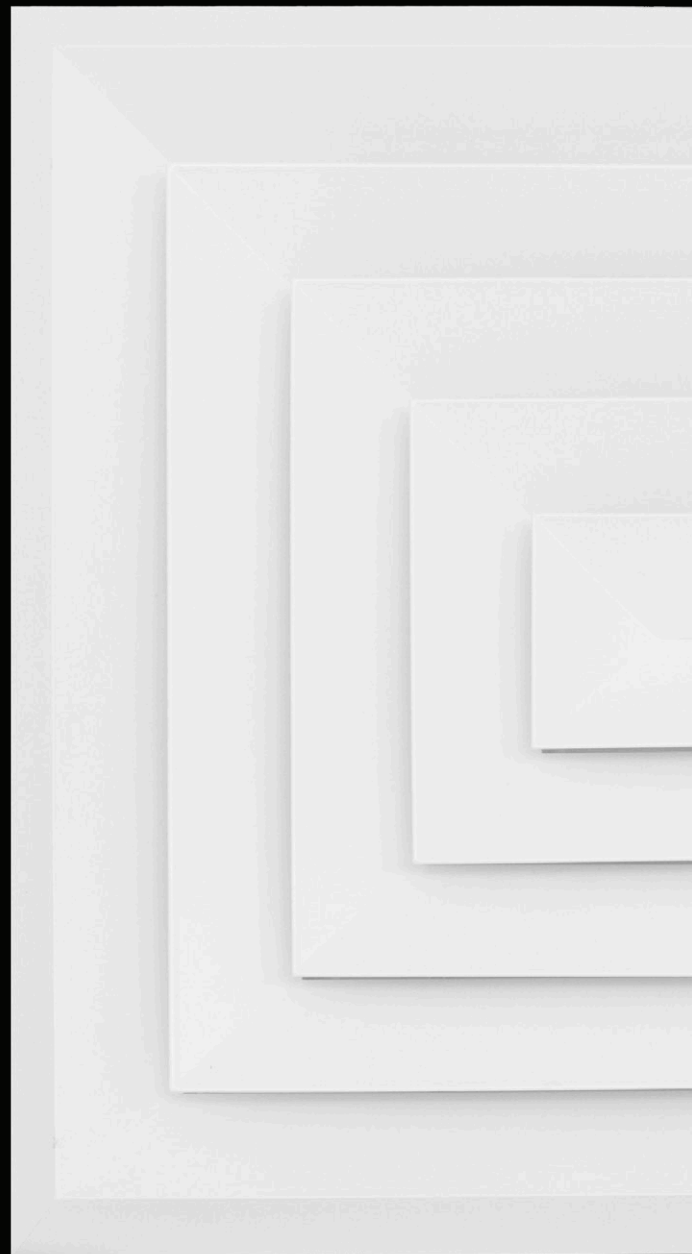


GRILLES
DUCT
FITTINGS

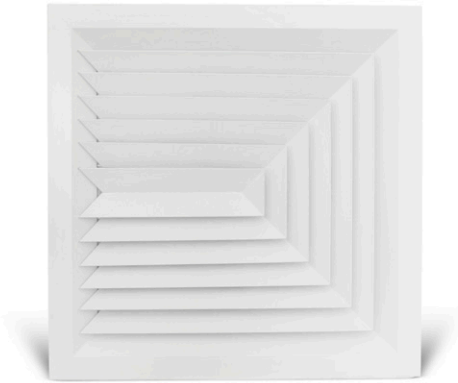
making it happen sooner...



Quality
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**BEVELLED FACE DIFFUSER
BD31**



BEVELLED FACE DIFFUSER – THREE WAY BLOW BD31

PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Bevelled Face Diffuser (BD31) is a high-quality surface-mounted model crafted from Airfoil's finest aluminium. Featuring a built-in anti-smudge 45° bevelled edged frame, this practical diffuser offers increased ceiling protection on installation.

The BD31 boasts a multi-core 3 Way Pattern, ensuring even airflow distribution to the targeted area for both heating and cooling purposes. Available in 4 different sizes and 5 different air patterns, it provides versatility to suit various requirements.

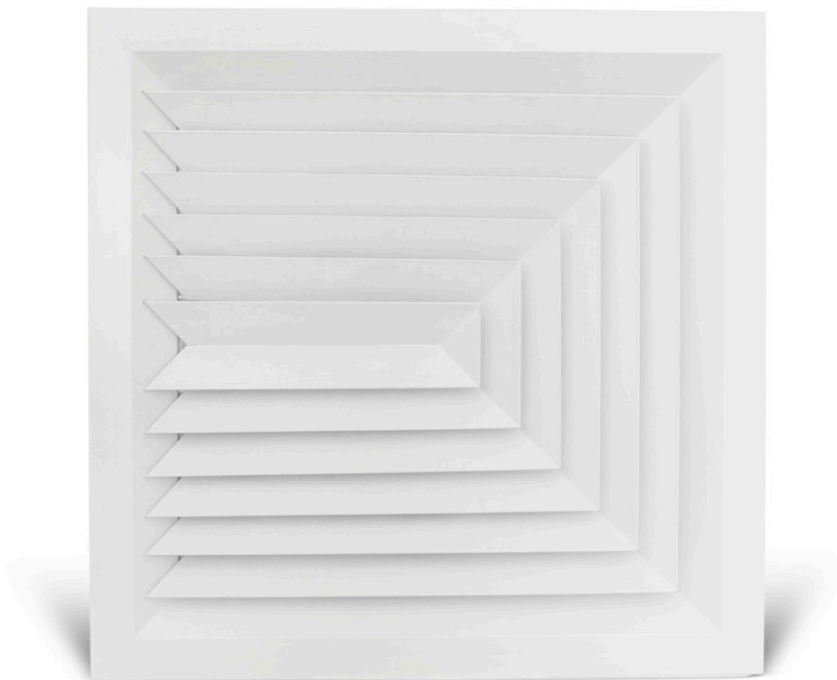
The bevelled outer frame can be paired with an Optional Fixing Clip Reducer Neck (FCRN) for easy installation into a plasterboard ceiling. Alternatively, Airfoil's Insulated Cushion Box (ICB) is available for commercial use purposes.

This popular and visually appealing diffuser is offered in our standard white range, with the option for custom powder-coating to any specific colour. The BD31 finds its ideal application in various settings, including domestic homes and commercial spaces such as airports, hospitals, office spaces, shopping centres, schools, or any building where uniform air distribution is essential.

BEVELLED FACE DIFFUSER – THREE WAY BLOW BD31

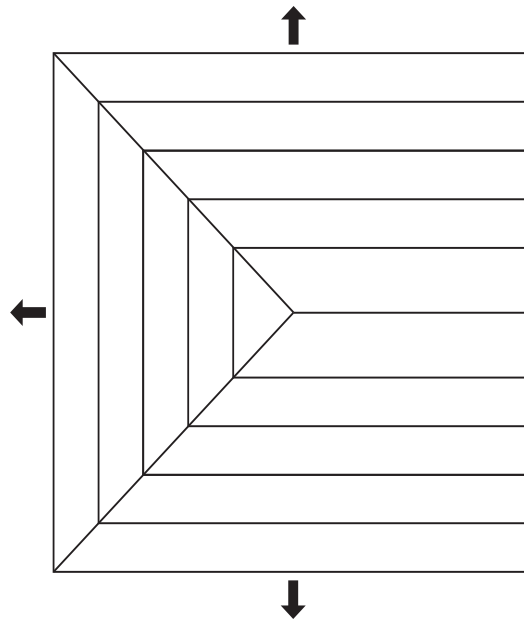
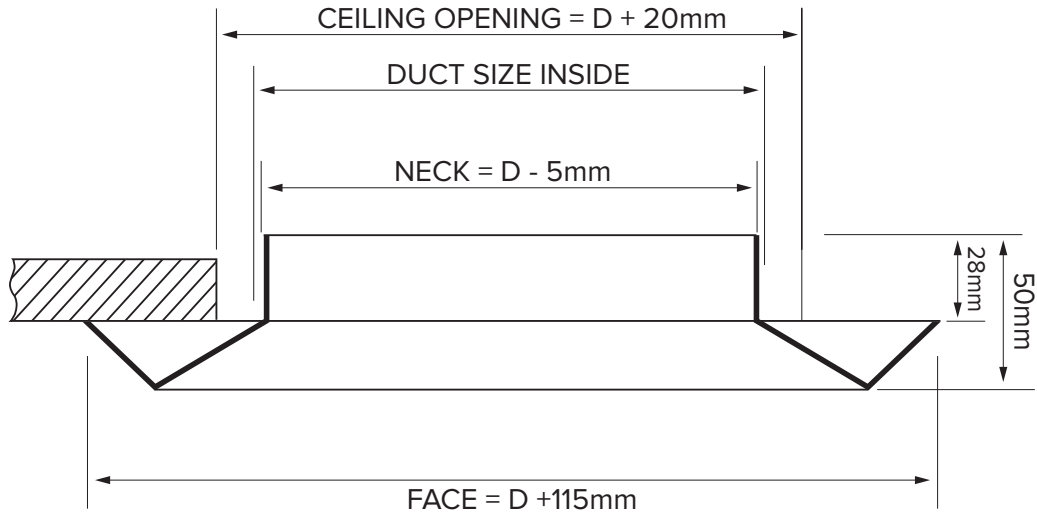
PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – BD31**
- Aluminium construction
- Multi-Core 3 Way Blow Supply Air pattern
- Neck Sizes available: 450mm x 450mm Neck Size, 375mm x 375mm Neck Size, 300mm x 300mm Neck Size, 225mm x 225mm Neck Size,
- Suited to surface mounted applications (plasterboard ceiling)
- Quick release removable core for easy access and installation
- Suited to heating and cooling outcomes
- Available in standard white
- In stock
- Special powder-coated colours available on request
- Product suitable for office space, shopping centres, hotels, colleges, universities, hospitals and most commercial or industrial buildings
- Available with Airfoil's Fixing Clip Square to Round Reducer Neck (FCRN) and Airfoil's Square to Square Reducer Neck (FCRN)
- Available with Airfoil's Insulated Cushion Box (ICB) to suit BD
- 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. Svdnev 2000**



BEVELLED FACE DIFFUSER – THREE WAY BLOW BD31

CROSS SECTIONAL DIAGRAM



DISCLAIMER:

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BEVELLED FACE DIFFUSER – THREE WAY BLOW BD31

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
225x225	I/s	76	101	127	152	177
	NR - dB	—	—	23	29	35
0.0506	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	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)	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	I/s	210	260	345	421	490
	NR - dB	—	23	29	34	40
0.1406	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	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)	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

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

BEVELLED FACE DIFFUSER – THREE WAY BLOW BD31

ORDERING CODES

BD41 450x450	4 way blow diffuser 450 X 450 NECK SIZE
BD31 450x450	3 way blow diffuser 450mm by 450mm NECK SIZE
BD25 450x450	2 way corner blow diffuser 450mm by 450mm NECK SIZE
BD21 450x450	2 way opposite blow diffuser 450mm by 450mm NECK SIZE
BD11 450x450	1 way blow diffuser 450mm by 450mm NECK SIZE
BD41 375x375	4 way blow diffuser 375mm x 375mm NECK SIZE
BD31 375x375	3 way blow diffuser 375mm x 375mm NECK SIZE
BD25 375x375	2 way corner blow diffuser 375mm x 375mm NECK SIZE
BD21 375x375	2 way opposite blow diffuser 375mm x 375mm NECK SIZE
BD11 375x375	1 way blow diffuser 375mm x 375mm NECK SIZE
BD41 300x300	4 way blow diffuser 300mm x 300mm NECK SIZE
BD31 300x300	3 way blow diffuser 300mm x 300mm NECK SIZE
BD25 300x300	2 way corner blow diffuser 300mm x 300mm NECK SIZE
BD21 300x300	2 way opposite blow diffuser 300mm x 300mm NECK SIZE
BD11 300x300	1 way blow diffuser 300mm x 300mm NECK SIZE
BD41 225x225	4 way blow diffuser 225mm x 225mm NECK SIZE
BD31 225x225	3 way blow diffuser 225mm x 225mm NECK SIZE
BD25 225x225	2 way opposite blow diffuser 225mm x 225mm NECK SIZE
BD21 225x225	2 way opposite blow diffuser 225mm x 225mm NECK SIZE
BD11 225x225	1 way blow diffuser 225mm x 225mm NECK SIZE