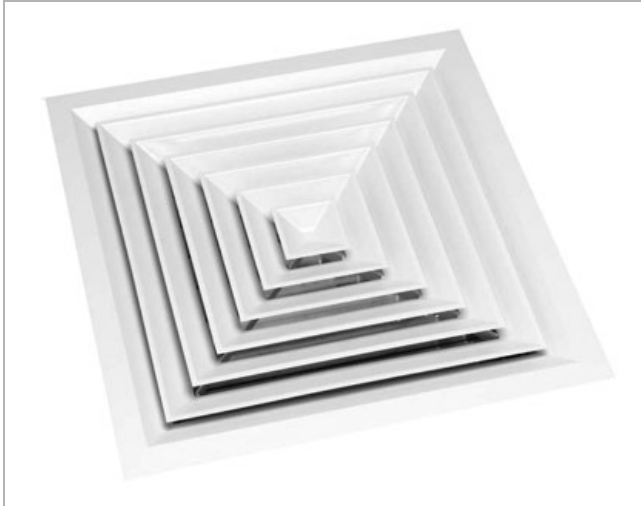




Ceiling Diffuser



Description

Lindab square multicone diffusers have been designed to meet a wide range of modern applications and include sizes for ceiling tile replacement. They are supplied as standard with a spring loaded removable centre core for ease of cleaning and adjustment. All diffusers are supplied with a safety cord between the diffuser core and frame.

*Rectangular are available upon request.

Construction

Lindab diffusers are manufactured from high quality materials with a cleated and welded construction providing excellent mechanical strength and high quality mitred joints.

Lindab diffusers are supplied as standard with a polyester powder coated white finish RAL9010.

Ordering example

Please always order by neck size NOT by opening size in ceiling.

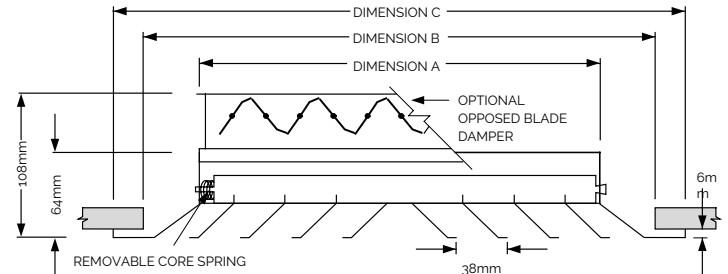
Eg: 375 x 375 4 way blow diffuser with damper: Model CDDW 375 x 375.

N.B. For a diffuser to fit into a standard 600 x 600 T bar ceiling system specify an overall size of 595 x 595 across face (450 x 450 neck).

Other ceiling style fixings available to order.

CDW/CDDW

Dimensions



Dimensions for standard sizes			
Nominal Unit Size	Actual Neck Dimension 'A'	Minimum Opening Dimension 'B'	Overall Flanges Dimension 'C'
150 x 150	146 x 146	228 x 288	290 x 290
225 x 225	223 x 223	305 x 305	367 x 367
300 x 300	299 x 299	381 x 381	443 x 443
375 x 375	375 x 375	457 x 457	519 x 519
450 x 450*	451 x 451	533 x 533	595 x 595

* 595sq o/all tile replacement diffuser.

Options

Paint Finish: Polyester powder coat to BS or RAL colours.

Special Sizes: Available to order.

Dampers: All Diffusers can be supplied complete with an opposed blade damper.

Plenum Boxes: Available in plastic & steel.

Size Range

From 150 x 150mm to 450 x 450mm nominal neck size. For 600 x 600 T bar ceilings please specify 450mm square neck with 595 x 595 dimensions across face of diffuser.

Fixing

Screw or rivet fixing through the diffuser neck into the duct or plenum box/pan adaptor.

Packaging

Each diffuser is supplied wrapped in polythene with oversized plastic corner pieces to protect diffuser faces and corners. Each unit is marked with the product reference and size for ease of identification.





Ceiling Diffuser

CD

SIZE IN mm	NECK VEL. M/S	2	2.2	2.5	2.8	3	3.3	3.5
150 X 150 F=0.019	M ³ /H	170	190.4	212.5	232.9	255	275.4	297.5
	THROW. M	1.5-2.4	1.5-2.7	1.8-2.7	2.1-3	2.1-3	2.4-3.4	2.4-3.4
	PRESS. mm	0.79	0.97	1.3	1.4	1.7	2.0	2.3
	NC	15	16	17	19	20	21	22
225 X 225 F=0.034	M ³ /H	380.8	428.4	476	523.6	571.2	618.8	666.4
	THROW. M	2.4-3.7	2.7-4	4-4.3	4-4.3	3.4-4.6	3.4-4.9	3.7-4.9
	PRESS. mm	0.9	1.3	1.5	1.8	2.1	2.2	2.8
	NC	18	19	21	22	24	25	26
300 X 300 F=0.055	M ³ /H	680	765	850	935	1020	1105	1190
	THROW. M	3.4-4.9	3.7-5.5	4-5.8	4.3-6.1	4.3-6.4	4.6-6.7	4.9-7
	PRESS. mm	1.0	1.2	1.6	1.9	2.3	2.3	3.1
	NC	18	20	22	23	25	26	28
375 X 375 F=0.083	M ³ /H	1060.8	1193.4	1326	1458.6	1591.2	1723.8	1856.4
	THROW. M	4.3-6.4	4.9-6.7	5.2-7	5.2-7.3	5.5-7.6	5.8-7.9	5.8-8.5
	PRESS. mm	1.1	1.5	1.9	2.1	2.5	2.8	3.3
	NC	19	21	23	25	27	28	30
450 X 450 F=0.115	M ³ /H	1530	1720	1913	2108	2295	2485	2678
	THROW. M	5.5-7.6	6.1-7.9	6.1-8.5	6.4-8.8	6.4-9.1	6.7-9.8	7-10.1
	PRESS. mm	1.2	1.5	1.9	2.2	2.6	3.0	3.5
	NC	20	21	24	26	28	30	31

Notes

1. Throw is based on a 0° temperature differential. Minimum throw is to terminal velocity vt of 0.5 m/s and maximum to 0.25 m/s.
2. All pressures are mm of water. To obtain static pressure, subtract velocity pressure at head of column from total pressure.
3. The NC values are based on a room absorption of 18 DbA. Re 1013 walt, F = Surface Outake, M².