



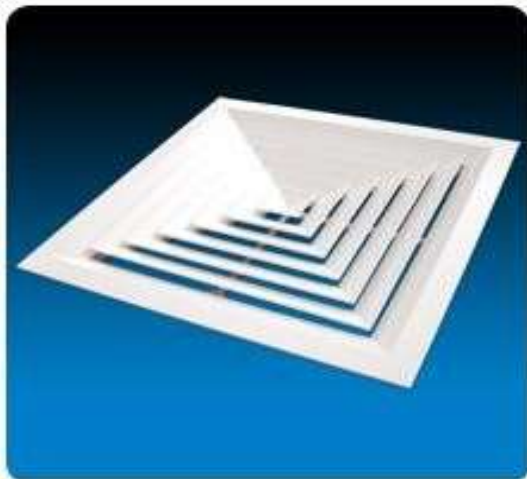
McCaig Collim

McCaig Collim
 Address: [92-94 Dargan Cres, Belfast BT3 9JP](#)
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SQUARE CEILING DIFFUSERS

Model LFD



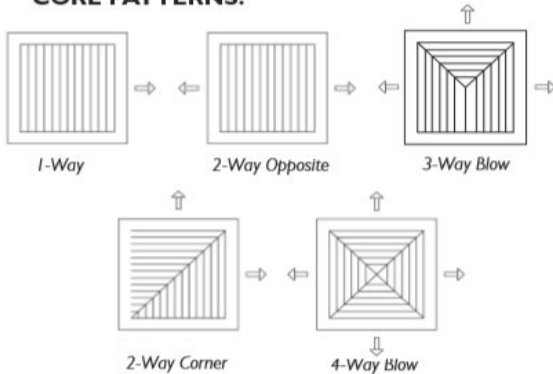
The range of Square Ceiling Diffusers are designed to provide excellent directional performance typically in a 4 way airflow pattern. Manufactured from extruded aluminium the diffuser offers a removable core as standard while also providing options for 1 way, 2 way opposite, 2 way corner and 3 way airflow patterns. LFD's are lightweight and will not rust or corrode under normal usage.

The flush frame is designed for surface mounting in the ceiling or alternatively as a lay-in T-Bar ceiling installations. Standard finish is powder coat white (RAL 9010) while other finishes are available to suit the interior and architectural design requirements.

All sizes of 4-ways are also stocked in RAL 9016

We also stock the 595x595mm 4-Way in RAL9005 (Black)

CORE PATTERNS:



The LFD range is suitable for heating, cooling or ventilation in commercial and domestic applications

Diffuser ratings are based on mounting height being 2.8 metres.

Throw range is defined by the minimum and maximum horizontal distances at right angles to the side of the diffuser.

Note: Stock diffusers can also be provided with internal blanking plates to achieve 1, 2 & 3 way blow.

They can also be supplied with Neck Reducing Plates (NRP)

ITEM #	SIZE (Neck / Face)	AIRFLOW PATTERN
248001	150 / 300	4-Way Blow
248002/200 N	200 / 350	4-Way Blow
248002	225 / 375	4-Way Blow
248002/250 N	250 / 400	4-Way Blow
248003	300 / 450	4-Way Blow
248004/495x495	350 / 500	4-Way Blow
248004	375 / 520	4-Way Blow
248005	450 / 595 (Lay-In)	4-Way Blow
248100	1200 x 600mm (Double Tile)	4-Way Blow

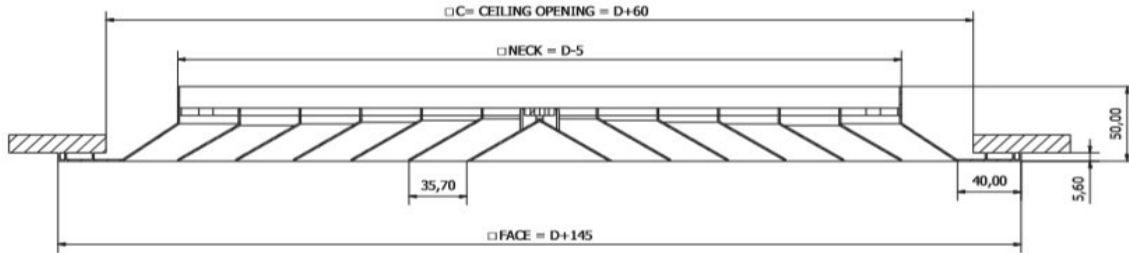
Please see below link to our website for further information on all of our ceiling diffusers.



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Square Ceiling Diffusers Type LFD

NECK SIZE (mm)	Airflow (L/s)	Velocity (m/s)	STATIC PRESSURE DROP (P/a)	NR (dB)	Minimum Throw (m)	Maximum Throw (m)
150x150	100	2	9	17	0.4	1.4
	150	3	15	19	1.2	2.5
225x225	100	2	15	<22	0.5	1.5
	150	3	35	28	1.4	3.2
300x300	150	1.7	12	<22	0.9	2.7
	200	2.2	19	23	1.4	3.3
	250	2.8	31	26	2.2	4.2
	300	3.3	42	31	2.8	4.6
375x375	250	1.8	13	<22	1.3	3.4
	300	2.1	18	<22	1.5	3.9
	350	2.5	26	28	1.7	4.6
	400	2.9	32	31	2.1	5
	450	3.2	39	35	2.7	5.2
450x450	350	1.7	12	25	1.2	3.8
	400	2	15	26	1.4	4.2
	450	2.2	20	29	2	4.8
	500	2.5	25	32	2.7	5.4
	550	2.7	30	33	3.1	5.8
	600	3	35	35	3.5	6.2

NOTE: The above sizes are based on a 4-way throw
 3-way x Air Quantity x 0.75



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2-way x Air Quantity x 0.50

Opposed Blade Dampers - Effect of Volume Control on Noise Levels

The additional noise level for diffusers with Opposed Blade Dampers installed is set out in the following table:

NR Addition for OBD		
Diffuser with OBD	Fully Open	50% Closed
NR 25 or less	1	5
NR 30	1	6
NR 35	2	8



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FOUR WAY BLOW		
PART NO #	SIZE mm	
248001	150 x 150	
248002	225 x 225	
248003	300 x 300	
248004	375 x 375	
248005	450 x 450 (595 x 595 face)	

FOUR WAY BLOW WITH OBD		
PART NO #	SIZE mm	
248001/6	150 x 150	
248002/7	225 x 225	
248003/8	300 x 300	
248004/9	375 x 375	
248005/10	450 x 450 (595 x 595 face)	

THREE WAY BLOW		
PART NO #	SIZE mm	
248001/3W	150 x 150	
248002/3W	225 x 225	
248003/3W	300 x 300	
248004/3W	375 x 375	
248005/3W	450 x 450	

THREE WAY BLOW WITH OBD		
PART NO #	SIZE mm	
248001/6/3W	150 x 150	
248002/7/3W	225 x 225	
248003/8/3W	300 x 300	
248004/9/3W	375 x 375	
248005/10/3W	450 x 450	

TWO WAY BLOW		
PART NO #	SIZE mm	
248001/2W	150 x 150	
248002/2W	225 x 225	
248003/2W	300 x 300	
248004/2W	375 x 375	
248005/2W	450 x 450	

TWO WAY BLOW WITH OBD		
PART NO #	SIZE mm	
248001/6/2W	150 x 150	
248002/7/2W	225 x 225	
248003/8/2W	300 x 300	
248004/9/2W	375 x 375	
248005/10/2W	450 x 450	

ONE WAY BLOW		
PART NO #	SIZE mm	
248001/1W	150 x 150	
248002/1W	225 x 225	
248003/1W	300 x 300	
248004/1W	375 x 375	
248005/1W	450 x 450	

ONE WAY BLOW WITH OBD		
PART NO #	SIZE mm	
248001/6/1W	150 x 150	
248002/7/1W	225 x 225	
248003/8/1W	300 x 300	
248004/9/1W	375 x 375	
248005/10/1W	450 x 450	

TWO WAY CORNER BLOW		
PART NO #	SIZE mm	
349001/2WC	150 x 150	
349002/2WC	225 x 225	
349003/2WC	300 x 300	
349004/2WC	375 x 375	
349005/2WC	450 x 450	

TWO WAY CORNER BLOW WITH OBD		
PART NO #	SIZE mm	
349001/6/2WC	150 x 150	
349002/7/2WC	225 x 225	
349003/8/2WC	300 x 300	
349004/9/2WC	375 x 375	
349005/10/2WC	450 x 450	



Part No.	SIZE mm
248100	1200 x 600

Available with OBD (x2)