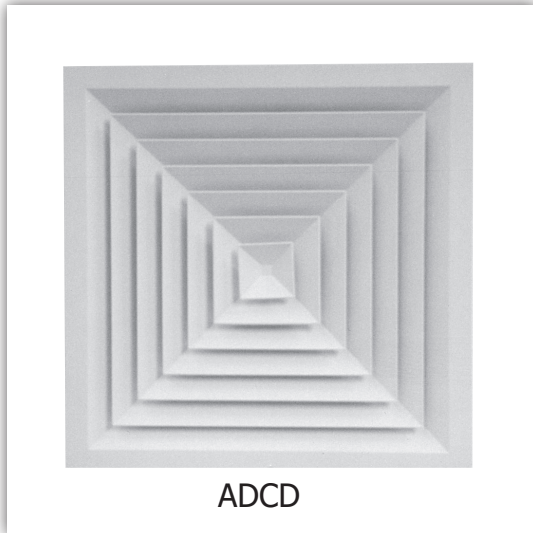
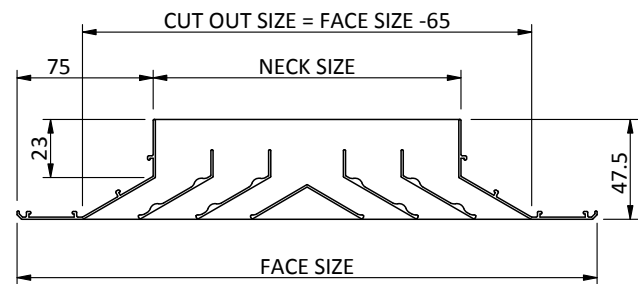


CEILING DIFFUSER LOUVRED FACE Model ADCD



DESIGN DETAILS (mm)



APPLICATIONS

Louvre faced ceiling diffusers are the industry standard supply air grille.

Designed to deliver large volumes of air in a stable horizontal air pattern that is close to the ceiling, and draft free.

In lay-in applications the diffuser is placed into a T-bar ceiling grid without any need to alter the T-bar construction, it simply replaces a tile.

This extremely versatile frame style is also suitable for surface mounting.

FEATURES

Manufactured from aluminium extrusion that is lightweight and resistant to rust and corrosion.

The removable core makes them easy to install, clean & access dampers located behind diffusers.

Triangular blanking plates can be fitted behind the louvre to obtain a varying distribution pattern whilst maintaining a uniform face appearance.

Standard finish powder coat satin white.

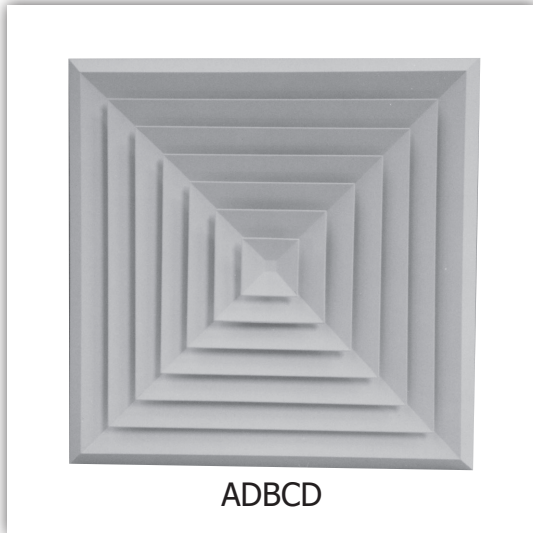
1, 2, 3 or 4 way blow in a wide selection of square and rectangular neck sizes available see page 3.

See engineering performance data and a quick selection chart on pages 4 & 5.

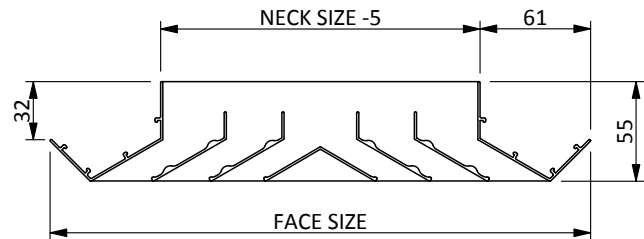
STOCK SIZES (mm)

Actual Neck/Face	Nominal Neck/Face	Cut out size
145 / 295	150 / 300	235 x 235
220 / 370	225 / 375	310 x 310
295 / 445	300 / 450	385 x 385
370 / 520	375 / 525	460 x 460
445 / 595	450 / 600	535 x 535

CEILING DIFFUSER BEVELLED FACE Model ADBCD



DESIGN DETAILS (mm)



APPLICATIONS

The bevelled faced ceiling diffuser has a smartly styled drop border frame that is suitable for all surface mounting applications.

They provide excellent performance where cooling is required in areas of high heat and high humidity, but versatile to also suit heating & cooling applications in lower temperatures.

STOCK SIZES (mm)

Actual Neck/Face	Nominal Neck/Face	Cut out size
145 / 267	150 / 270	150 x 150
220 / 342	225 / 345	225 x 225
295 / 417	300 / 420	300 x 300
370 / 492	375 / 495	375 x 375
445 / 567	450 / 570	450 x 450

FEATURES

Manufactured from aluminium extrusion that is lightweight and resistant to rust and corrosion.

The bevelled frame is corner staked and welded for increased strength.

The core is removable via a positive centre screw making them easy to install, clean & access dampers located behind diffusers (if fitted).

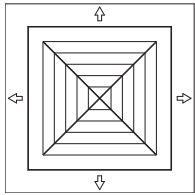
Triangular blanking plates can be fitted behind the louvre to obtain a varying distribution pattern whilst maintaining a uniform face appearance.

Standard finish powder coat satin white.

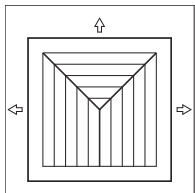
See pages 3 & 4 for core patterns and engineering performance data.

CEILING DIFFUSER CORE PATTERNS Model ADCD

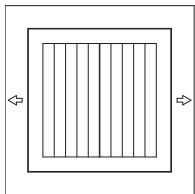
SQUARE DIFFUSERS



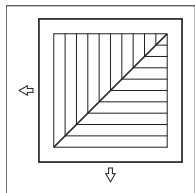
4 way (S4W)



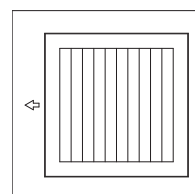
3 way (S3W)



2 way (S2W)

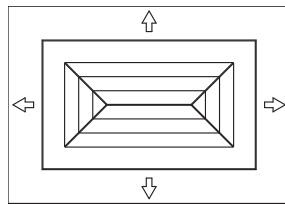


2 way corner (S2WC)

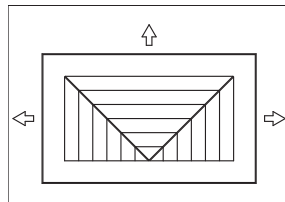


1 way (S1W)

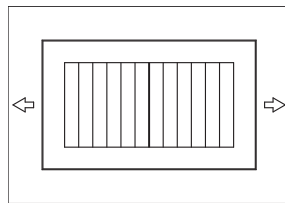
RECTANGULAR DIFFUSERS



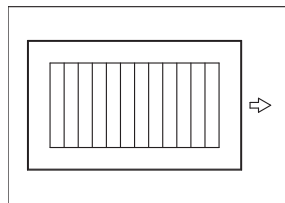
4 way (R4W)



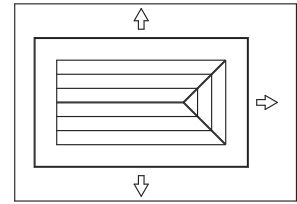
3 way short blade (R3WS)



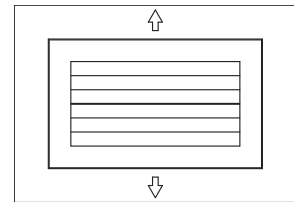
2 way opposite short blade (R2WS)



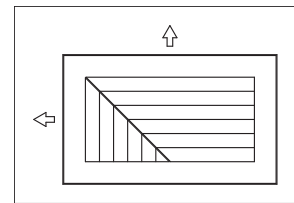
1 way (R1WS)



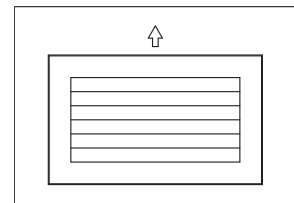
3 way long blade (R3WL)



2 way opposite long blade (R2WL)



Two way corner (R2WC)



1 way (R1WL)



CEILING DIFFUSER LOUVRED FACE Model ADCD

Air Flow (L/s)	Static Pressure (Pa)	Throw (m) to terminal Velocity		Core (m/s)	Noise Rating (NR)
		0.5 m/s	0.25 m/s		
150/300 4-Way ADCD					
51	21	1.7	2.6	0.9	11
76	39	2.2	3.1	1.4	20
109	73	3.3	4.6	2.0	29
154	135	3.7	5.3	2.8	40
189	175	4.5	*	3.5	45
215	246	5.2	*	4.0	49
240	305	*	*	4.4	53
262	370	*	*	4.9	56
225/375 4-Way ADCD					
75	8	1.8	2.5	0.9	10
95	14	2.2	3.1	1.1	14
135	27	2.9	4.1	1.6	22
168	38	3.5	4.9	2.0	29
194	52	3.8	5.2	2.3	35
236	70	4.5	5.7	2.8	39
261	90	5.0	*	3.1	43
307	112	*	*	3.6	48
300/450 4-Way ADCD					
75	5	1.3	2.1	0.6	8
108	7	1.7	2.4	0.9	10
154	12	2.6	3.8	1.3	18
219	20	3.3	4.5	1.8	27
269	29	4.5	*	2.2	33
311	40	*	*	2.6	39
383	58	*	*	3.2	46
375/525 4-Way ADCD					
108	4	3.0	4.0	0.7	10
168	6	4.1	5.1	1.0	13
235	12	4.8	6.0	1.4	24
292	18	5.2	*	1.8	31
339	22	*	*	2.0	36
400	29	*	*	2.4	40
450/595 4-Way ADCD					
160	3	2.3	3.2	0.8	10
207	4	3.0	4.2	1.0	16
250	6	3.6	5.0	1.2	21
349	11	5.0	*	1.6	31
504	23	*	*	2.4	39
590	32	*	*	2.8	45
710	44	*	*	3.3	51

Diffuser ratings are based on mounting height being 2.8 meters.

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

Note: Table indicates throw for 4-way pattern.

To estimate throw for the same airflows for other patterns, apply the approach multiplier to the 4-way throw figures.

- 1-way x 2
- 2-way x 1.4
- 3-way x 1.5



CEILING DIFFUSER LOUVRED FACE
Model ADCD

QUICK SELECTION CHART

Air Quantity	Diffuser Neck Sizing (mm)				
	Throw (m)				
	1.0 - 1.3	1.3 - 1.8	1.8 - 2.2	2.2 - 3.0	3.0 - 4.0
55 - 70	225 x 225	150 x 150	150 x 150		
75 - 120	300 x 300	225 x 225	225 x 225	225 x 225	
125 - 150		300 x 300	300 x 300	300 x 300	
155 - 200			450 x 450	450 x 450	300 x 300
205 - 250				450 x 450	375 x 375
255 - 300					450 x 450
305 - 350					450 x 450
355 - 450					

Guide Only

The above sizes are based on a 4 way throw

3 way = Air quantity x 0.75

2 way = Air quantity x 0.50