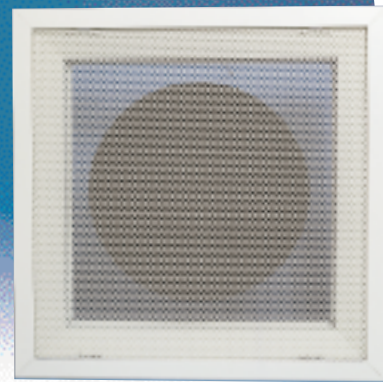


LOW COST PERFORATED FACE CEILING DIFFUSER

This low cost perforated face diffuser is designed primarily for applications where cost is the prime consideration. The range consists of four sizes of diffuser. Each has a round neck, hinged perforated face plate and a disc on the inside of the perforated face to provide a limited amount of directional discharge. A circular flap damper (Code 0531) can be fitted into the round neck and accessed from the face of the diffuser.

STANDARD

Code 0337. Low cost perforated face diffuser.



STANDARD SPECIFICATION

SIZES

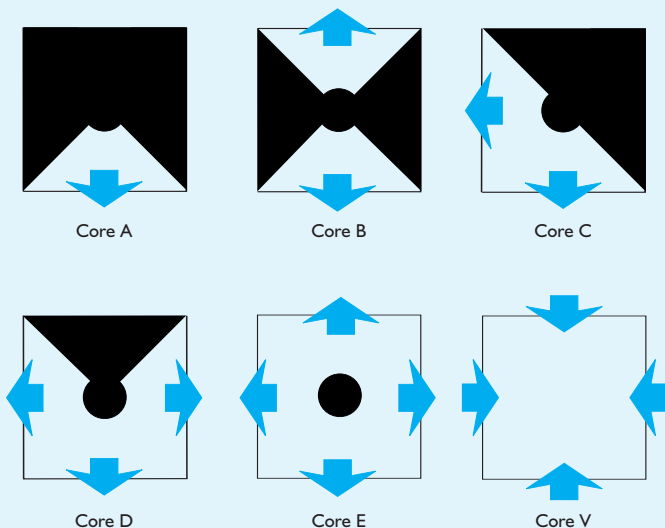
Nominal neck diameters of 160, 200, 250 and 315mm only. See table below for relationship of neck diameter to over flange size.

CONSTRUCTION

Aluminium frame with mechanical joints to lock the mitred corners. Perforated sheet steel core with black plastic directional disc on the back. Hinged core to provide access to the damper, if fitted.

CORE STYLES

Core Patterns For Code 0337 Perforated Diffusers



STANDARD SPECIFICATION

FINISH

Powder coated to RAL 9010 satin (White).

FIXING

Code 0337. Screw fix through the neck of the diffuser into the duct. Un-punched borders. (Fixing type 0F7) or lay into a 'T' bar ceiling system (Fixing type 0F9).

PACKAGING

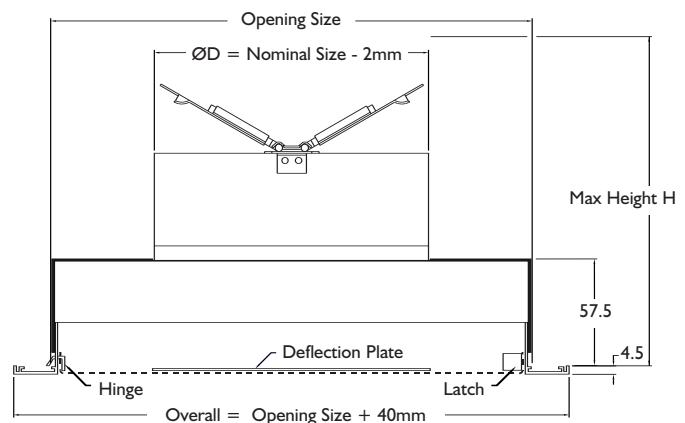
Each diffuser is shrink wrapped in polythene with cardboard to top and bottom faces for extra protection.

TECHNICAL INFORMATION

See pages 27 & 28

Low Cost Perforated Face Ceiling Diffuser
Code 0337 and Flap Damper Code 0531

Max Height H = Height with Flap Damper fully open



Opening Size	Opening Size	Overall Dimensions	Spigot øD	Height H
ø160	260 x 260	300 x 300	ø158	138
ø200	350 x 350	390 x 390	ø198	158
ø250	450 x 450	490 x 490	ø248	183
ø315	555 x 555	595 x 595	ø313	218



OPTIONAL ALTERNATIVES/ADDITIONS

CIRCULAR FLAP DAMPER

Code 0531 Flap damper can be fitted in the neck of the diffuser.

FINISHES

Any BS,RAL or NCS colour. Code 0145. Please specify the colour reference.

ORDERING DETAILS

- The code for the basic product should have at least 13 digits. See page 1.
- Add codes for additions / alternatives as suffixes.

EXAMPLE:

A perforated face diffuser, 300mm diameter neck size, 4 way discharge with a flap damper would be coded:- 0337/00000/0300E + 0531.

Applications. Supply * Extract * Ceiling *

Performance Data For 1 Way Blow Core A

Diffuser Size	Neck Velocity m/s Pressure Drop Pa	1.5 2.0	2.0 4.0	2.5 6.0	3.0 9.0	3.5 12	4.0 16	5.0 25	6.0 35
Ø160	Flow Rate m³/s			0.010	0.012	0.013	0.016	0.019	0.023
	NR			8	15	21	25	32	38
	Throw m@0.5m/s (V) Throw m@0.25m/s (V)			1.1 1.75	1.3 2.2	1.5 2.4	1.7 2.8	2.2 3.4	2.6 4.2
Ø200	Flow Rate m³/s		0.015	0.018	0.022	0.026	0.029	0.037	0.045
	NR		-	13	17	23	27	34	40
	Throw m@0.5m/s (V) Throw m@0.25m/s (V)		1.2 1.8	1.4 2.3	1.7 2.7	2.1 3.3	2.3 3.8	2.8 4.7	3.5 5.7
Ø250	Flow Rate m³/s	0.017	0.024	0.030	0.037	0.042	0.048	0.060	0.072
	NR	-	9	15	19	24	29	36	43
	Throw m@0.5m/s (V) Throw m@0.25m/s (V)	1.1 1.75	1.4 2.3	1.7 3.0	2.2 3.6	2.6 4.2	3.0 4.8	3.75 6.0	4.5 7.0
Ø315	Flow Rate m³/s	0.025	0.034	0.042	0.049	0.058	0.068	0.082	0.096
	NR	-	10	15	20	25	30	37	43
	Throw m@0.5m/s (V) Throw m@0.25m/s (V)	1.3 2.2	1.8 2.8	2.2 3.6	2.7 4.3	3.2 5.0	3.7 5.8	4.4 7.0	5.0 8.0

Performance Data For 2 Way Blow Core B & C

Diffuser Size	Neck Velocity m/s Pressure Drop Pa	1.5 2.0	2.0 4.0	2.5 6.0	3.0 9.0	3.5 12	4.0 16	5.0 24	6.0 35
Ø150	Flow Rate m³/s			0.019	0.024	0.027	0.032	0.039	0.048
	NR			13	18	23	27	34	39
	Throw m@0.5m/s (V) Throw m@0.25m/s (V)			1.0 1.6	1.3 2.3	1.4 2.3	1.6 2.6	2.0 3.2	2.4 3.9
Ø200	Flow Rate m³/s		0.028	0.035	0.042	0.049	0.058	0.071	0.087
	NR		11	16	19	24	2.9	36	42
	Throw m@0.5m/s (V) Throw m@0.25m/s (V)		1.1 1.7	1.3 2.2	1.7 2.7	1.9 3.1	2.2 3.5	2.7 4.3	3.3 5.2
Ø250	Flow Rate m³/s	0.034	0.045	0.057	0.068	0.080	0.091	0.180	0.135
	NR	-	8	15	22	27	31	38	47
	Throw m@0.5m/s (V) Throw m@0.25m/s (V)	1.0 1.7	1.3 2.2	1.7 2.75	2.1 3.3	2.4 3.8	2.7 4.5	3.4 5.5	4.2 6.7
Ø315	Flow Rate m³/s	0.051	0.068	0.083	0.100	0.120	0.135	0.170	0.220
	NR	-	12	16	23	27	33	39	45
	Throw m@0.5m/s (V) Throw m@0.25m/s (V)	1.2 1.9	1.7 2.65	2.1 3.3	2.4 3.9	2.8 4.7	3.3 5.3	4.2 6.8	4.8 7.3

Performance Data For 3 Way Blow Core D

Diffuser Size	Neck Velocity m/s	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0
	Pressure Drop Pa	2.0	4.0	6.0	9.0	12.0	16.0	25.0	35.0
Ø160	Flow Rate m³/s			0.025	0.033	0.038	0.045	0.055	0.065
	NR			15	21	26	31	37	43
	Throw m@0.5m/s (V _i)			0.9	1.2	1.4	1.7	1.9	2.3
	Throw m@0.25m/s (V _i)			1.6	1.9	2.3	2.7	3.2	3.8
Ø200	Flow Rate m³/s		0.042	0.052	0.064	0.074	0.84	0.110	0.130
	NR		11	17	23	28	33	40	46
	Throw m@0.5m/s (V _i)		1.1	1.3	1.7	1.9	2.2	2.7	3.3
	Throw m@0.25m/s (V _i)		1.8	2.3	2.7	3.2	3.6	4.5	5.3
Ø250	Flow Rate m³/s	0.053	0.072	0.090	0.110	0.130	0.140	0.180	0.220
	NR	7	13	20	26	31	35	43	48
	Throw m@0.5m/s (V _i)	1.1	1.4	1.8	2.2	2.5	2.8	3.5	4.3
	Throw m@0.25m/s (V _i)	1.7	2.3	2.8	3.5	4.0	4.7	5.8	6.9
Ø315	Flow Rate m³/s	0.077	0.100	0.130	0.155	0.170	0.205	0.250	0.300
	NR	8	13	21	27	32	37	44	50
	Throw m@0.5m/s (V _i)	1.25	1.7	2.2	2.5	3.0	3.5	4.2	5.0
	Throw m@0.25m/s (V _i)	2.1	2.7	3.4	4.1	4.9	5.6	6.8	7.6

Performance Data For 4 Way Blow Core E

Diffuser Size	Neck Velocity m/s	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0
	Pressure Drop Pa	2	4	6	9.0	12	16	24.5	35
Ø150	Flow Rate m³/s			0.038	0.044	0.051	0.060	0.075	0.090
	NR			15	22	26	31	37	44
	Throw m@0.5m/s (V _i)			1.0	1.2	1.4	1.7	2.0	2.4
	Throw m@0.25m/s (V _i)			1.7	1.9	3.0	2.7	3.1	4.0
Ø200	Flow Rate m³/s		0.060	0.072	0.087	0.100	0.120	0.150	0.175
	NR		12	17	23	28	33	4.	46
	Throw m@0.5m/s (V _i)		1.1	1.4	1.7	1.9	2.3	2.7	3.4
	Throw m@0.25m/s (V _i)		1.8	2.3	2.7	3.2	3.7	3.1	5.5
Ø250	Flow Rate m³/s		0.095	0.130	0.140	0.167	0.190	0.240	0.290
	NR		12	19	26	31	35	42	48
	Throw m@0.5m/s (V _i)		1.35	1.7	2.2	2.5	2.9	3.7	4.3
	Throw m@0.25m/s (V _i)		2.3	2.7	3.5	4.1	4.8	5.8	7.0
Ø315	Flow Rate m³/s	0.100	0.135	0.167	0.210	0.240	0.275	0.330	0.420
	NR	7	15	21	27	32	36	43	49
	Throw m@0.5m/s (V _i)	1.25	1.7	2.2	2.5	3.0	3.4	4.3	4.8
	Throw m@0.25m/s (V _i)	2.1	2.7	3.5	4.1	4.9	5.4	7.0	8.0

Performance Data For Extract Core V

Diffuser Size							
Ø160	Flow Rate m³/s	0.064	0.080	0.100	0.120	0.240	0.160
	NR	-	15	20	23	25	30
Ø200	Flow Rate m³/s	0.092	0.127	0.157	0.186	0.218	0.252
	NR	-	18	22	26	29	33
Ø250	Flow Rate m³/s	0.183	0.247	0.308	0.367	0.430	0.492
	NR	-	21	24	29	33	35
Ø315	Flow Rate m³/s	0.304	0.404	0.508	0.609	0.708	0.811
	NR	17	23	27	30	34	37