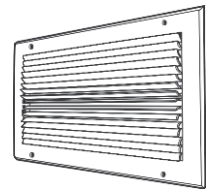


EYELASH DIFFUSER - ELD

DESCRIPTION & FEATURES

Eyelash diffusers are suitable for supply air diffusion in ceiling applications. They are particularly useful in handling high volume/reduced throw situations. The curved blades can be arranged for 1, 2, 3 & 4 way throw patterns and can be individually set on site to adjust the air flow from horizontal to near vertical projection.



Available options are Opposed Blade Dampers (OB) and Plenum Boxes (PBX). ELD diffusers are manufactured from extruded aluminium sections, the mitred corners being fully welded and finished.

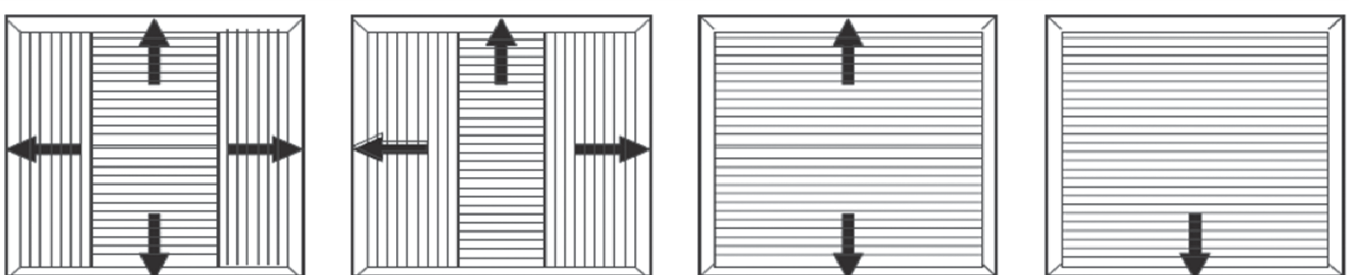
Standard finish is RAL9010 or polyester powder coated to the customers colour requirement.

PLENUM BOXES

Plenum boxes are accessories for use with Grilles and Diffusers. They are designed to equalise the pressure profile within the box and hence provide an even velocity at the face of the Grille or Diffuser without the use of Equalising Grids.

ELD ORDERING CODE (DIFFUSER)	
Series	ELD
Ceiling	S - Standard (cut in) M - Modular (595sq tile) T - Tegular (see data sheet) B - Clip in tile
Pattern	1 2 (opposite) 3 4 -Way
Damper	OB - Opposed Blade Damper 0 - Not applicable
Fixing	F0 - No fixings, F1 - CSK Flange Fixing Holes
Finish	1 - (Mill Finish) 2 - RAL9006 (Silver/Grey) 3 - RAL9010 (White) 4 - RAL9005 (Black) 5 - RAL9003 (White) 6 - RAL9016 (White), 7 - Other RAL/BS Code (additional costs may apply) 8 - Chrome Finish - Powder Coated
Example: ELD/S/4/OB/F0/3/Nominal Size	

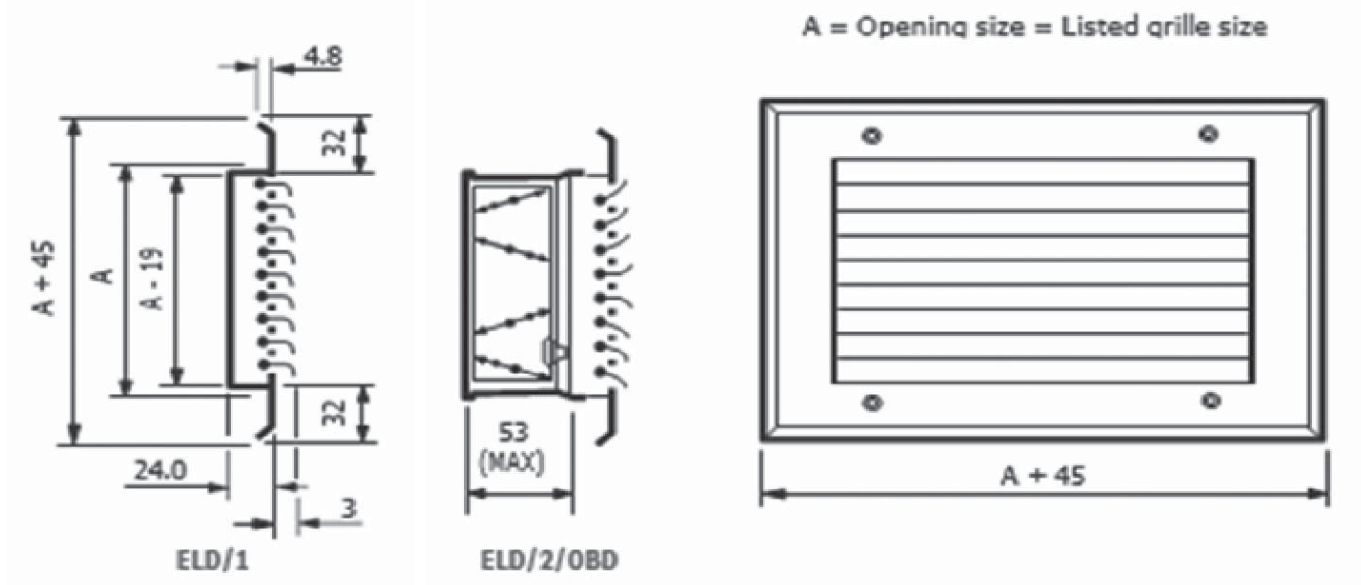
ELD ORDERING CODE (PLENUM)	
Type	PBU - Un-Lined Side PBL - Lined Side PBA - Adaptor Top
Series	ELD
Mesh	P - Perforated Equalising Mesh 0 - No Equalising Mesh
Damper	LS - Lever Spigot Damper CS - Cord Spigot Damper 0 - No Damper
Spigot	OP - 2 Opposite Spigots AD - 2 Adjacent Spigots FL - Flat Oval Spigot
Finish	IN - Black Internal EX - Black External IE - Black Internal & External
Example: PBL/ELD/0/CS/Nominal Size/Spigot Size	



EYELASH DIFFUSER - ELD

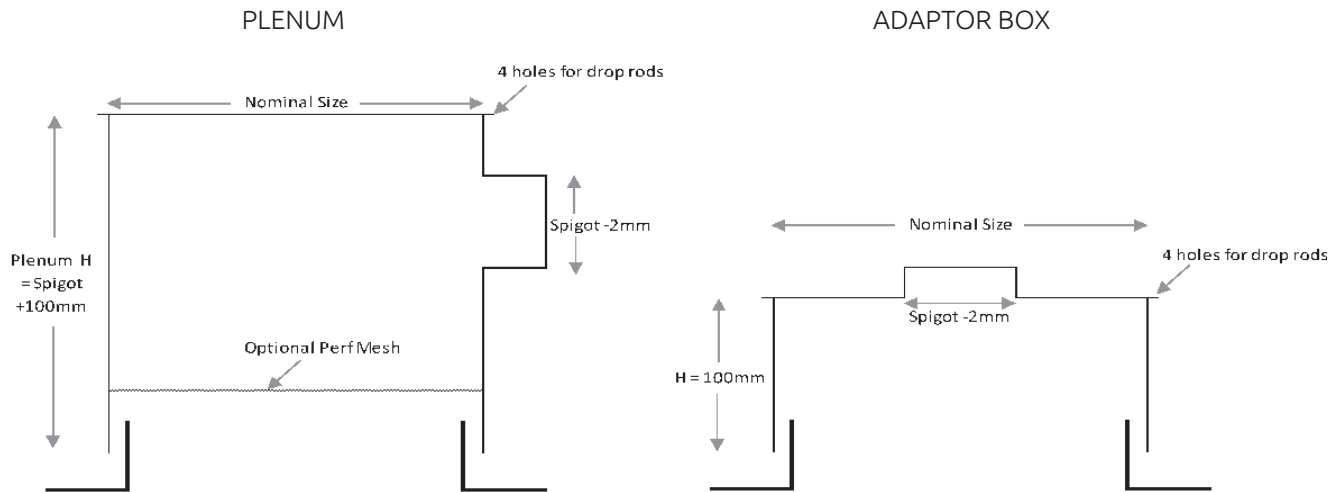
ELD DIMENSIONS (DIFFUSER)

ELD



Minimum Sizes: 1-Way = 100sq, 2-Way = 100sq, 3-Way = 300x150, 4-Way = 300x150

PLENUM BOX DIMENSIONS



Side entry as drawn. Top entry 250 high.

DIFFUSER c/w SUPPLY SIDE ENTRY PLENUM

AIR VOL (l/s)	SIZE	SPIGOT (if applicable)	P.DROP (Pa)	NOISE (NR)	4-Way		3-Way		2-Way		1-Way	
					T	T	T	T	T	T	T	T
25	150x150	123dia	11	20	0.9	1.0	1.0	1.2	1.2	1.7	1.7	1.7
	150x150	148dia	18	31	1.4	1.6	1.6	1.9	1.9	2.7	2.7	2.7
40	200x200	148dia	11	/	1.0	1.1	1.1	1.4	1.4	2.0	2.0	2.0
	200x200	198dia	19	33	1.9	2.1	2.1	2.6	2.6	3.7	3.7	3.7
100	300x300	198dia	17	22	1.6	1.8	1.8	2.3	2.3	3.2	3.2	3.2
	300x300	248dia	16	28	2.0	2.3	2.3	2.8	2.8	4.0	4.0	4.0
125	350x350	248dia	12	20	1.7	2.0	2.0	2.4	2.4	3.4	3.4	3.4
	300x300	248dia	23	32	2.4	2.8	2.8	3.4	3.4	4.8	4.8	4.8
150	350x350	248dia	18	25	2.0	2.3	2.3	2.9	2.9	4.0	4.0	4.0
	300x300	298dia	20	36	2.8	3.2	3.2	3.9	3.9	5.6	5.6	5.6
175	350x350	298dia	16	29	2.4	2.7	2.7	3.3	3.3	4.7	4.7	4.7
	400x400	298dia	13	23	2.0	2.4	2.4	2.9	2.9	4.1	4.1	4.1
200	350x350	298dia	21	33	2.7	3.1	3.1	3.8	3.8	5.4	5.4	5.4
	400x400	298dia	17	27	2.3	2.7	2.7	3.3	3.3	4.7	4.7	4.7
225	450x450	298dia	14	21	2.1	2.4	2.4	2.9	2.9	4.1	4.1	4.1
	400x400	298dia	21	30	2.6	3.1	3.1	3.7	3.7	5.3	5.3	5.3
250	450x450	298dia	17	24	2.3	2.7	2.7	3.3	3.3	4.7	4.7	4.7
	500x500	298dia	14	20	2.1	2.4	2.4	3.0	3.0	4.2	4.2	4.2
300	400x400	348dia	18	32	2.9	3.4	3.4	4.2	4.2	5.8	5.8	5.8
	450x450	348dia	15	27	2.6	3.0	3.0	3.7	3.7	5.2	5.2	5.2
350	500x500	348dia	12	22	2.3	2.7	2.7	3.3	3.3	4.6	4.6	4.6
	400x400	348dia	26	37	3.5	4.1	4.1	5.0	5.0	7.0	7.0	7.0
400	450x450	348dia	21	32	3.1	3.6	3.6	4.4	4.4	6.2	6.2	6.2
	500x500	348dia	18	27	2.8	3.2	3.2	3.9	3.9	5.6	5.6	5.6
450	550x550	348dia	15	23	2.5	2.9	2.9	3.6	3.6	5.0	5.0	5.0
	450x450	398dia	21	36	3.6	4.2	4.2	5.1	5.1	7.2	7.2	7.2
500	500x500	398dia	18	31	3.2	3.8	3.8	4.6	4.6	6.5	6.5	6.5
	550x550	398dia	15	27	2.9	3.4	3.4	4.2	4.2	5.9	5.9	5.9
550	600x600	398dia	13	23	2.7	3.1	3.1	3.8	3.8	5.4	5.4	5.4
	500x500	448dia	18	34	3.7	4.3	4.3	5.3	5.3	7.4	7.4	7.4
600	550x550	448dia	15	30	3.4	3.9	3.9	4.8	4.8	6.7	6.7	6.7
	600x600	448dia	13	26	3.1	3.6	3.6	4.4	4.4	6.1	6.1	6.1
650	600x600	448dia	20	32	3.8	4.4	4.4	5.4	5.4	7.7	7.7	7.7

Throw data (metres) is based on to a Terminal Velocity of 0.5m/s to give an average room air movement of 0.25m/s when fitted within a 2.7m high ceiling.

Sound Power Levels (NR) and Pressure Drops (Pa) applies to a fully opened Damper. The assumed room absorption is between 8-10dB.

Selection and tests are based on +/- 10°C. / indicates a value of less than 20.

Notes

ELD