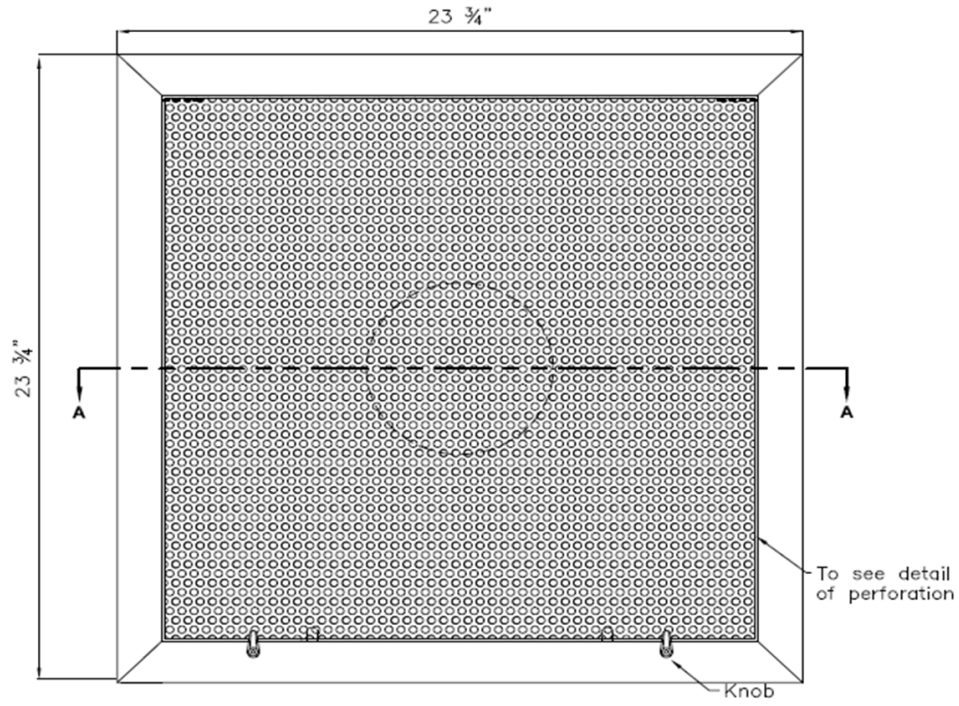
LAMINAIRE®
Grilles, Diffusers and A/C Accessories

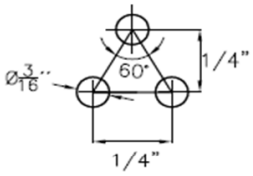
L-A2

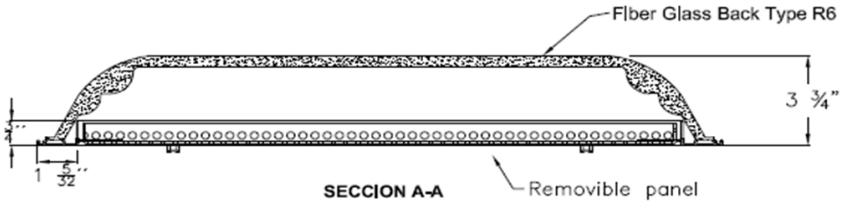
L - A2 FEATURES

PERFORATED DIFFUSERS



Detail
of perforation





Finish
White (Standard)
Other colors (Optional)

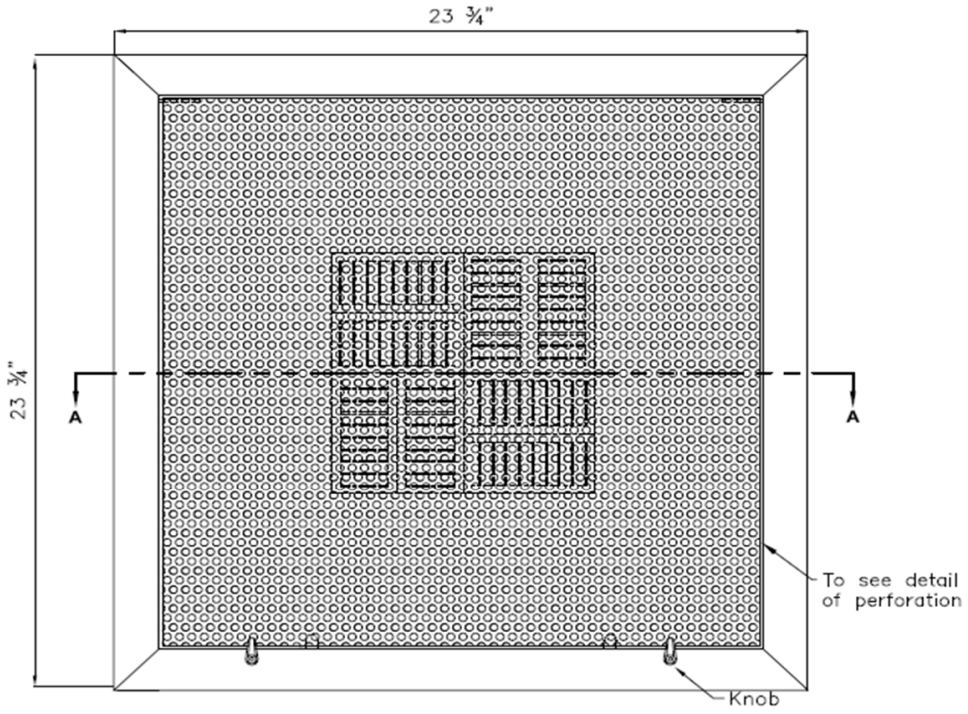
Note: Available in size 24" x 24"

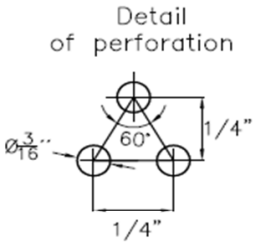
LAMINAIRE
Grilles, Diffusers and A/C Accessories

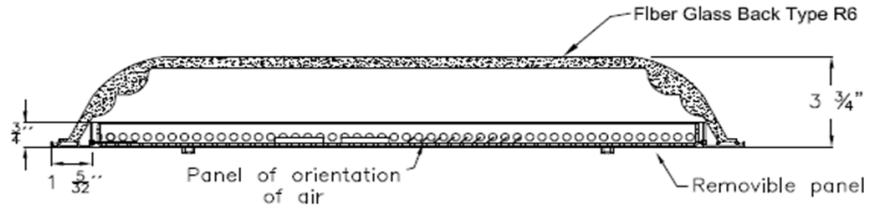
L-A2

L - A2 - 4W FEATURES

PERFORATED DIFFUSERS







SECCION A-A

Finish
White (Standard)
Other colors (Optional)

Note: Available in size 24" x 24"

SERIES L-ED-1 / L-A2

FIBERGLASS PLENUM DIFFUSERS

Series **L-ED1** Perforated Ceiling Diffusers with fiberglass plenums are designed to provide economical, efficient, draft-free air distribution in ceiling applications where a plenum vapor barrier and on-site neck sizing is desirable.

These diffusers are available for use in standard 24" x 24" T-bar lay –in ceiling grids only. Both diffusers feature a 1" thick plenum of molded fiberglass with an external layer of aluminum foil. The plenum composition makes them light, economical to ship, and easy to handle and install.

Four air pattern controllers are centrally pivoted to the inside of the face. Each pattern controller can be rotated 360˚ to achieve 1, 2, 3 or 4-way air pattern selectability even after the diffuser is installed.

The Series **L-ED1 PERFORATED** Ceiling Diffuser can be used as a return unit with or without the air pattern control disc. The Return matches the appearance of the perforated Ceiling Diffuser but is supplied without air pattern controllers.

PERFORMANCE: The L-ED1 and Perforated Ceiling Diffusers are recommended for heating, cooling and ventilating applications in constant and variable volume system. They are suitable for use in residential, commercial and industrial buildings, performing effectively with air loadings of 1 to 3 CFM per square foot of floor area or 6 to 18 air changes per hour.

CONSTRUCTION: The one-piece, molded plenum is constructed of fiberglass material externally wrapped in aluminum foil, it is factory scored to accept 6"8"10"12"14" tab lock collard or spin - in type fittings available for use with these standard sizes of flex -duct. The plenum is tested in accordance with ASTM E84 and has a flame spread rating of 0-25 and a smoke developed rating of 0-50 perforated Ceiling Diffuser air pattern control disc is made of black permeated vinyl. A layer of transparent bonding material holds the disc securely onto the diffuser´s steel perforated face Four air pattern controllers on Models are centrally pivoted with nylon pins to the inside surface of the pace panel. The perforated face is hinged on one side and locked into place on the opposite side with two concealed spring latches. The face is made of sheet steel with 3/16"diameter holes on ¼ staggered centers.

FINISH: The inside surface of the Perforated Ceiling Diffusers´ fiberglass plenum is black. The perforated face painted off-white.

LAMINAIRE®
Grilles, Diffusers and A/C Accessories

L-ED1/ L-A2

SERIES PERFORATED DIFFUSER

L-ED1/ L-A2

NOMINAL NECK SIZE	FPM Neck Velocity	200	300	400	500	600	700	800	900	1000
	Pv	,002	,006	,010	,016	,022	,030	,040	,050	,062
6"	CFM	40	60	80	100	115	135	155	175	196
	Pt	,004	,009	,016	,027	,035	,049	,066	,078	,105
	Throw	1-1-1	1-1-1	1-1-4	1-2-4	1-2-5	1-3-6	2-3-7	2-3-8	2-4-10
	NC	<	<	<	<	22	26	30	35	38
8"	CFM	70	105	140	175	210	245	280	315	350
	Pt	,006	,013	,026	,037	,054	,073	,096	,121	,150
	Throw	1-1-2	1-1-3	1-2-5	2-2-5	2-3-6	2-3-8	2-4-10	3-5-11	3-6-12
	NC	<	<	<	20	23	26	30	34	38
10"	CFM	110	160	215	270	325	380	435	490	545
	Pt	,008	,018	,033	,052	,075	,111	,135	,171	,212
	Throw	1-2-3	1-2-4	1-2-5	2-3-6	2-3-7	3-4-6	3-4-10	3-5-12	4-7-14
	NC	<	<	20	23	26	29	34	38	41
12"	CFM	155	235	315	390	470	550	630	705	785
	Pt	,009	,021	,039	,059	,066	,118	,155	,194	,240
	Throw	1-2-4	1-2-5	1-2-7	2-3-9	2-5-11	3-6-13	4-7-14	6-9-18	7-11-21
	NC	<	20	24	27	30	34	38	42	45
14"	CFM	210	320	425	535	640	750	855	960	1070
	Pt	,010	,022	,039	,063	,091	,124	,162	,210	,253
	Throw	1-2-6	1-3-9	2-5-11	3-6-13	4-8-16	5-9-18	7-11-23	9-13-27	10-16-32
	NC	<	20	24	28	32	36	40	45	48

L-ED1/ L-A2 RETURNS

Nominal Neck Diameter	FPM Inlet Velocity	200	300	400	500	600	700	800	900	1000
	Ps	-,005	-,013	-,024	-,040	-,050	-,070	-,096	-,115	-,146
6"	CFM	40	60	80	100	115	135	155	175	195
8"	CFM	70	105	140	175	210	245	280	315	350
10"	CFM	110	160	215	270	325	380	435	490	545
12"	CFM	155	235	315	390	470	550	630	705	785
14"	CFM	210	320	425	535	640	750	855	960	1070