AIRFOIL

GRILLES
DUCT
FITTINGS

making it happen sooner...

AUSTRALIAN MADE
AND OWNED

Quality System™

Quality
Endorsed
Company
ISO 9001
SAI GLOBAL

SINGLE LIGHT AIR BOOT

S-LAB

SINGLE LIGHT AIR BOOT
S-LAB

PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Australian Made and Designed Single Light Air Boot Diffuser (S-LAB) discreetly diffuses air with precision. Crafted from mild steel, each Single Light Air Boot is custom-tailored to complement chosen light fixtures, ensuring seamless integration from project to project. Its surface-mounting or regressed application versatility, coupled with a scratch-proof black powder-coated finish, offers both practicality and durability.

Featuring a unique airflow crossover and integrated volume control device, the Single Light Air Boot Diffuser enables effortless manual air balancing, while pattern control devices allow for simple adjustment from below the ceiling line. This efficient air diffusion solution excels in managing varying temperature differentials and effectively diffusing large air volumes with minimal sound pressure.

Notably, the Single Light Air Boot Diffuser's flexibility seamlessly integrates with any office partition layout compatible with its lighting system. Prior to ordering, thorough discussions regarding light fixture specifics and desired S-LAB performance characteristics are strongly advised.

While the Performance Data serves as a helpful reference, large-scale projects may necessitate additional testing to ensure optimal performance beyond the provided data.

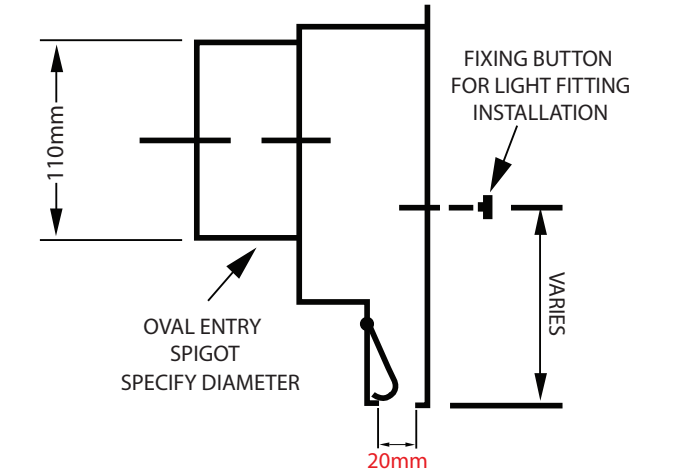
SINGLE LIGHT AIR BOOT
S-LAB

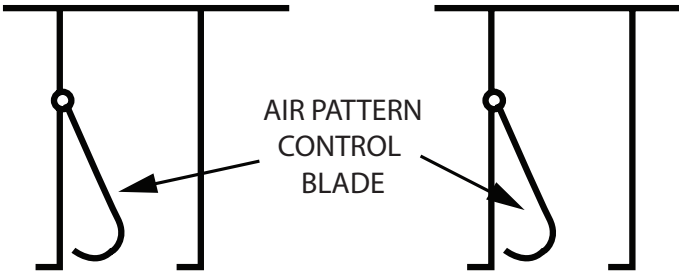
PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – S-LAB**
- Australian Made and Designed
- Manufactured from galvanised 0.6mm steel
- Custom manufactured to suit each particular light fitting
- Slot opening 20mm
- Standard height 220mm
- Spigot sizes available are 150mm and 200mm diameters
- Mounted within the light fitting
- “J” Blade volume control device fitted for manual air balancing
- Low sound pressure levels
- Black powder coated face finish for scratch resistance
- Used for supply air diffusion for heating and cooling
- Airfoil tested information available
- Product tested at 1200mm and 600mm lengths
- **The following metric performance data has been derived from exhaustive testing in elaborate laboratories of acoustic and vibrational engineers Louis A. Challis and Associates Proprietary Limited. Darling Street, Sydney 2000**

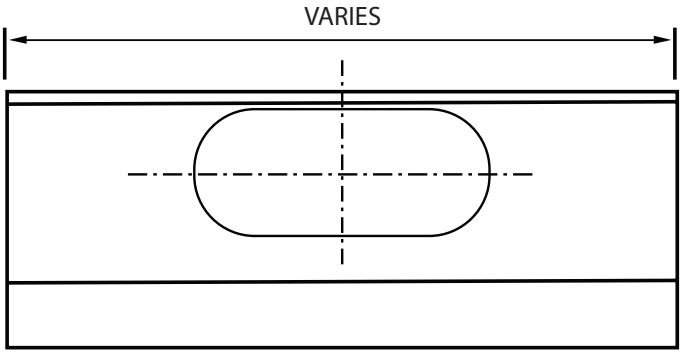
SINGLE LIGHT AIR BOOT
S-LAB

CROSS SECTIONAL DIAGRAM





SLOT ARRANGEMENTS
TO SUIT LIGHT FITTING



SINGLE LIGHT AIR BOOT
S-LAB

PERFORMANCE DATA

Volume		L/s	35	40	45	50	55
Throw/Side Metres		H	1.9	1.9	2.4	3.0	4.2
		V	1.2	1.2	1.5	1.5	1.5
150 Dia	Total Press Pa		15	14	18	22	35
Side Entry	NR dB		20	21	23	30	35

This performance data has been compiled from actual test data for the Double Light Air Boot Diffuser with "J" blade pattern controller and nominal dimensions: **1200mm** long, **20mm** slot width, tested with the light fitting.

NOTE: Throw to Terminal Velocity of 0.5m/s
NR dB values are based on a Room Absorption of 8dB re. 10^{-12} Watts

Volume		L/s	35	40	45	50	55
Throw/Side Metres		H	2.2	2.6	3.0	4.2	5.5
		V	1.0	1.0	1.2	1.2	1.2
150 Dia	Total Press Pa		43	60	80	115	128
Side Entry	NR dB		28	32	39	44	47

This performance data has been compiled from actual test data for the Single Light Air Boot Diffuser with "J" blade pattern controller and nominal dimensions: **600mm** long, **20mm** slot width tested with the light fitting

NOTE: Throw to Terminal Velocity of 0.5m/s
NR dB values are based on a Room Absorption of 8dB re. 10^{-12} Watts