

LINEAR SLOT

Model: LSD



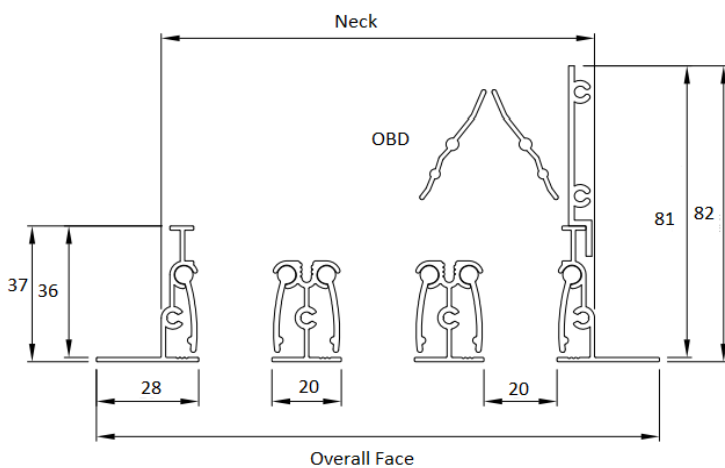
The Polyaire Linear Slot Diffusers are an attractive alternative to the ceiling or high sidewall supply diffusers.

Slot diffusers can be installed individually in set lengths or in a continuous line. They can also be installed in any type of ceiling application.

The modules are available with a 20mm or 25mm Slot with the number of slots ranging from 1 to 8 slots and are further available as fixed or removable core. (Fixed Core - Model LSD-FC, Removable Core – LSD-RC.

The air pattern control is adjustable from the diffuser face and is achieved by means of an adjustable pattern control with each slot, enabling a full 180° air pattern adjustment. The suggested volume control should be from the main duct run take-off, or from a butterfly damper fitted to the inlet of the cushion head box.

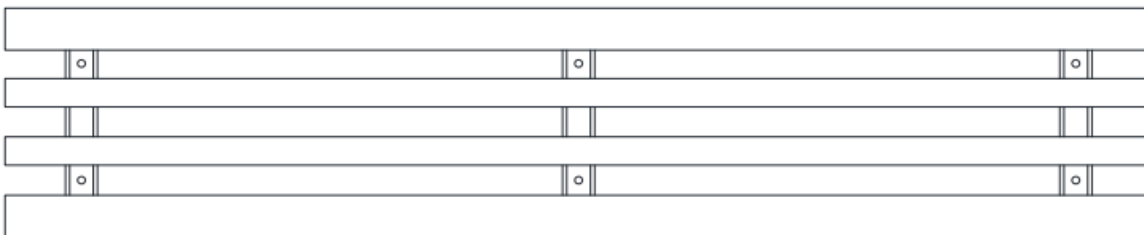
Construction is from extruded aluminium and the recommended maximum length for each section is 3 metres. Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements.



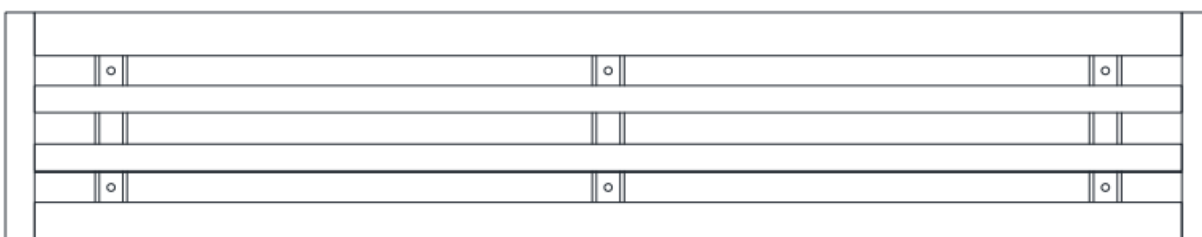
Number of Slots	Actual Neck (mm)	Overall Face (mm)
1	45	80
2	90	125
3	132	167
4	176	210
5	222	257
6	264	300
7	306	341
8	348	383

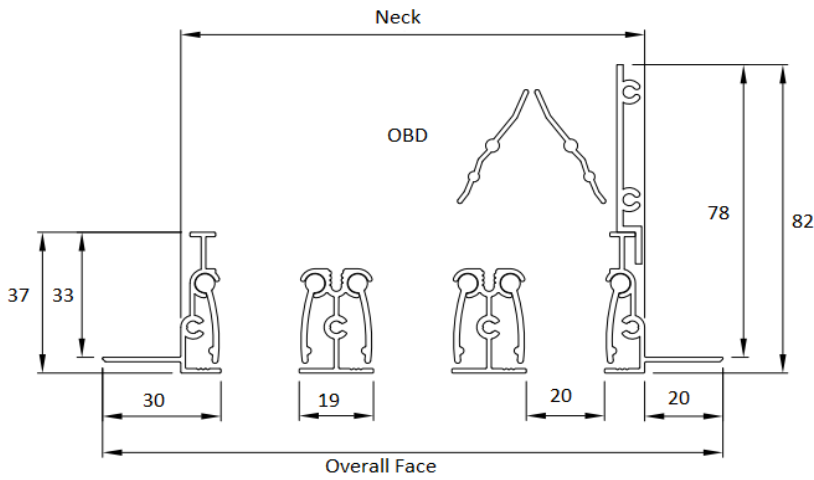
Non-standard size slot and neck widths are available upon request

No End Caps



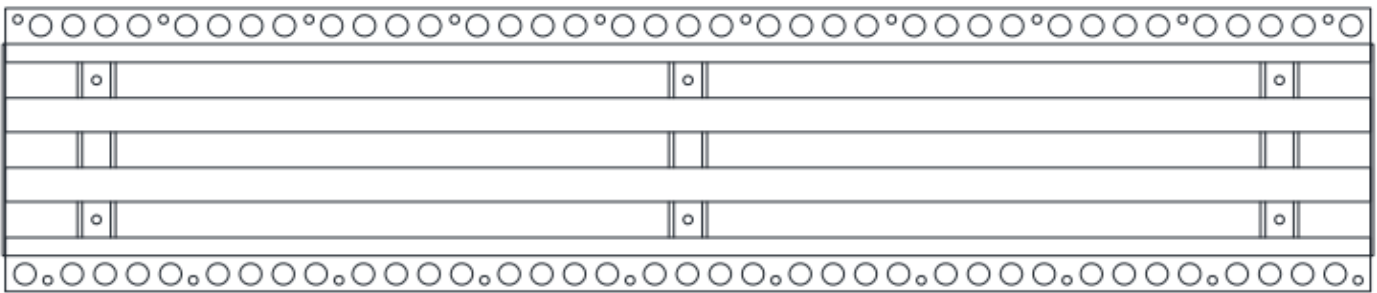
With End Caps





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Plaster-in

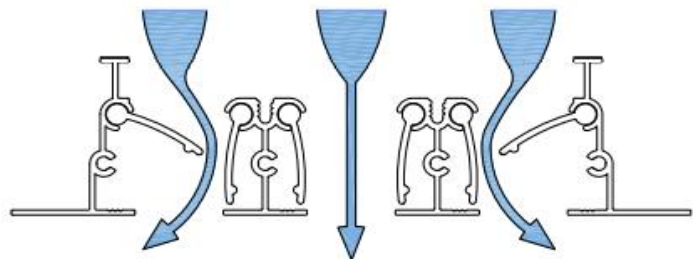


Goalpost Brackets



Goalpost brackets may differ from picture above

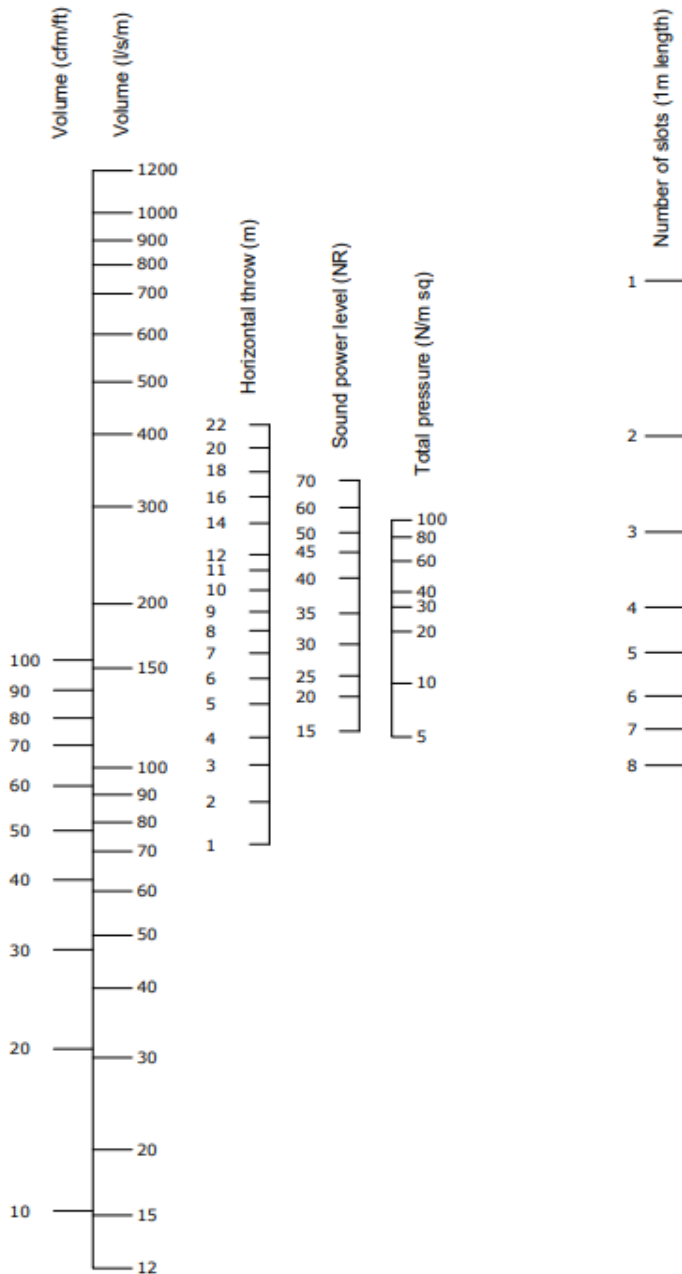
Deflector Blades



POLYAIRE UK

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Selection Data



Throw values based on a 10°C cooling application, to a terminal velocity of 0.5m/s, to give an average room velocity of 0.18 m/s with a room height of 2.7m when mounted flush with an unobstructed ceiling.

Exhaust correction factors	
NR	-10
Pressure loss	0.8

Correction factors		
Diffuser active length (m)	Horizontal flow multiplier	Sound level correction
0.5	0.7	-3dB
1	1	As nomogram
1.5	1.1	+2dB
2	1.2	+3dB
3	1.3	+5dB

Temperature correction factors						
	-10°C	0°C	+5°C	+10°C	+15°C	+20°C
Throw factor	1	1.1	1.15	1.2		
Projection factor	1.6	1.25	1.15	1	0.73	0.62

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