

## Loose Core Linear Slot Diffuser

### Description

For supply or return air, fully adjustable loose core linear slot diffuser with unique air pattern control design. The air pattern can be adjusted in situ or factory. Set to suit design requirements. Suitable for ceiling mounting applications. The loose core linear slot diffuser's unique design allows the installer to simply push the complete core of the diffuser upwards to allow it to be screw fixed to box above then simply drop back down into the frame.



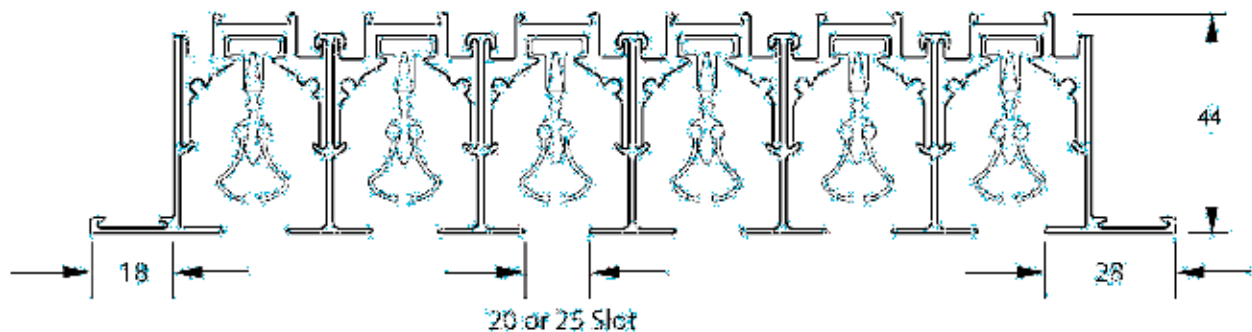
### Construction

From high quality aluminium extrusion in maximum one piece lengths of 3000mm and from 1 to 4 slots. Mitred ends are standard and are powder coated white c/w black anodised blades as standard. Natural anodised or special colours are also available upon request. Available in both 20mm and 25mm slots. Corner pieces and specific angles are also available.

### Loose Core Dimension Table

20mm			
Slot	Act Neck	Face Size	Box Size
1	40	75	45
2	80	115	85
3	120	155	125
4	160	195	165
5	200	235	205
6	240	275	245
7	280	315	285
8	320	355	325

25mm			
Slot	Act Neck	Face Size	Box Size
1	45	80	50
2	90	125	95
3	135	170	140
4	180	215	185
5	225	260	230
6	270	305	275
7	315	350	320
8	320	355	325



### Quick Selection Guide - Fixed & Loose Core Linear Slot Diffusers

#### Performance Data

Suitable for both cooling and heating applications with normal temperature differentials to 12° C. Data is based on a 1000mm long diffuser module, a 2.7m high flush ceiling and at isothermal conditions. The effect of shorter or longer diffusers is given as follows:

Diffuser Length [metres]	Throw Distance Lt [metres]	NC ±
0.3	Lt x 0.6	-2
0.5 - 1.0	Lt x 0.9	-2
1.2 - 1.8	Lt x 1.0	0
2.0 - 3.0	Lt x 1.10	+3
3.5 - 6.0	Lt x 1.15	+5
6.0 +	Lt x 1.20	+8

Note: When using continuous length diffusers with short alternate active and inactive sections the factors in the adjacent table need not be applied.

#### Selection

- In terms of performance and aesthetics a long narrow slot diffuser should be selected in preference to a short wide one. For example a 6.0 metre long 2 Slot diffuser would be preferable to a 1.5 metre long 8 Slot unit although both sizes have identical outlet areas.
- The ends of a fully active supply air slot diffuser should finish between 20% and 10% of its total length from any adjacent wall to avoid turbulence and possible occupancy discomfort in that vicinity.
- Data given in table below are based on air being diffused in one direction only. Diffusers can be set to diffuse in opposite directions, thus for 2-way air pattern divide the total air volume proportionally.
- Tabulated data is shown for both 20mm and 25mm slots respectively.