briteair

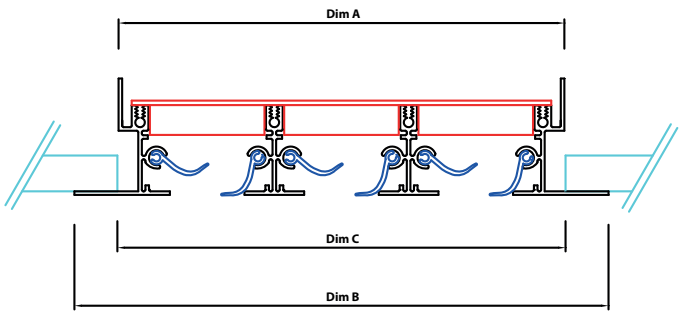
Slot Diffuser – *Type BSD-25*

Fully manufactured from Aluminium Extrusion, our Slot Diffuser has been designed for either ceiling or wall mounting.

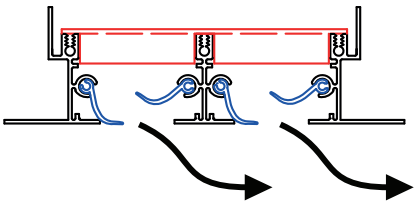
All individual slots are fully adjustable to give three different air patterns to achieve comfort criteria within the occupied zone. The Slot Diffuser can be supplied with up to 8 Slots and is manufactured in any length to suit site requirements.



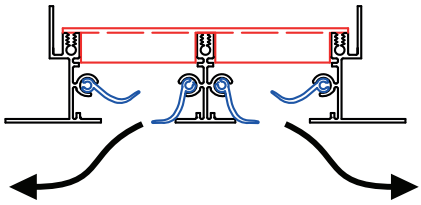
Multiple Variations



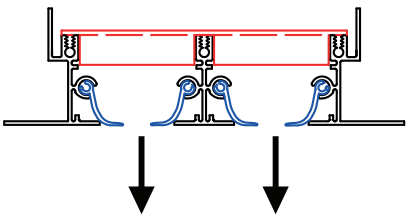
No of Slots	Dim A	Dim B	Dim C
1	60	89	70
2	105	134	115
3	150	179	160
4	195	224	205
5	240	269	250
6	285	314	295
7	330	359	340
8	395	404	385



1 way air pattern



2 way air pattern



vertical air pattern

How to Order

Type	Slot Width	Slot Qty	End Flange	RAL Colour	
BSD	25	1 up to 8	0	Face	Blade
			1EF	RAL 9010	B - Black
			2EF		AF - As Face

*Please contact our **Sales Office on 01924 444 174** for selection guidance on the above.*

briteair SYSTEMS LTD

Briteair Systems Ltd
Unit 2 Norquest Industrial Park, Pennine View, Birstall West Yorkshire WF17 9NE
Telephone: 01924 444 174 | Fax: 01924 476 600 | www.briteair.co.uk

Performance Data 25mm Slot Diffuser Horizontal Projection with Ceiling Effect

Thows are based on a supply air temperature differential of 10° C for a 1 metre active length and a room ceiling height of 2.7 metres.

Air Volume l/s	No of Slots	Throw m	Total Pressure Pa	Noise Level NR
		0.25 - 0.5 m/s		
20	1	2.4 - 1.2	4	-
	2	2.1 - 1.0	1	-
30	1	3.6 - 1.8	9	-
	2	3.1 - 1.6	3	-
40	1	4.8 - 2.4	17	20
	2	4.1 - 2.1	5	-
	3	3.5 - 1.7	2	-
50	1	5.9 - 3.0	26	27
	2	5.2 - 2.6	8	-
	3	4.4 - 2.2	3	-
60	1	7.1 - 3.6	37	32
	2	6.2 - 3.1	12	17
	3	5.7 - 2.8	4	-
	4	4.9 - 2.5	2	-
70	1	8.3 - 4.2	51	36
	2	7.2 - 3.6	16	21
	3	6.6 - 3.3	6	11
	4	5.8 - 2.9	3	6
80	2	8.3 - 4.1	21	15
	3	7.6 - 3.8	7	-
	4	6.6 - 3.3	4	-
90	2	9.3 - 4.7	26	28
	3	8.5 - 4.3	9	18
	4	7.4 - 3.7	5	-
	5	7.1 - 3.5	4	-
100	2	10.3 - 5.2	32	31
	3	9.5 - 4.7	12	21
	4	8.2 - 4.1	6	16
	5	7.8 - 3.9	5	-
120	2	12.4 - 6.2	47	36
	3	11.4 - 5.7	17	26
	4	9.9 - 4.9	9	21
	5	9.4 - 4.7	7	16
	6	9.0 - 4.6	4	-
140	3	13.2 - 6.6	23	31
	4	11.5 - 5.8	13	26
	5	11.0 - 5.5	9	21
	6	10.2 - 5.0	6	16
160	3	15.1 - 7.6	30	34
	4	13.1 - 6.6	17	29
	5	12.5 - 6.3	12	24
	6	12.0 - 6.0	8	19
180	5	14.1 - 7.1	15	28
	6	13.9 - 7.0	10	23
	7	12.9 - 6.4	8	20
	8	12.1 - 6.0	5	18
200	5	15.7-7.9	18	31
	6	15.2-7.5	12	26
	7	14.3-7.2	10	23
	8	13.4-6.7	7	21
250	6	19.4-9.5	19	32
	7	17.9-9.0	16	29
	8	16.8-8.6	11	27
300	6	23.2-11.7	28	37
	7	21.5-10.7	23	34
	8	20.1-10.0	15	32

continued

Vertical Projection

For vertical projection of the supply then please apply the relevant correction factor to the horizontal throw values given in the table below.

Distance from slot to wall	- 10° C Temp Differential	-/+ 0° C Temp Differential	+ 10° C Temp Differential
- 600mm	Throw x 0.75	Throw x 0.60	Throw x 0.40
+ 600mm	Throw x 100	Throw x 0.85	Throw x 0.60

Correction Factors

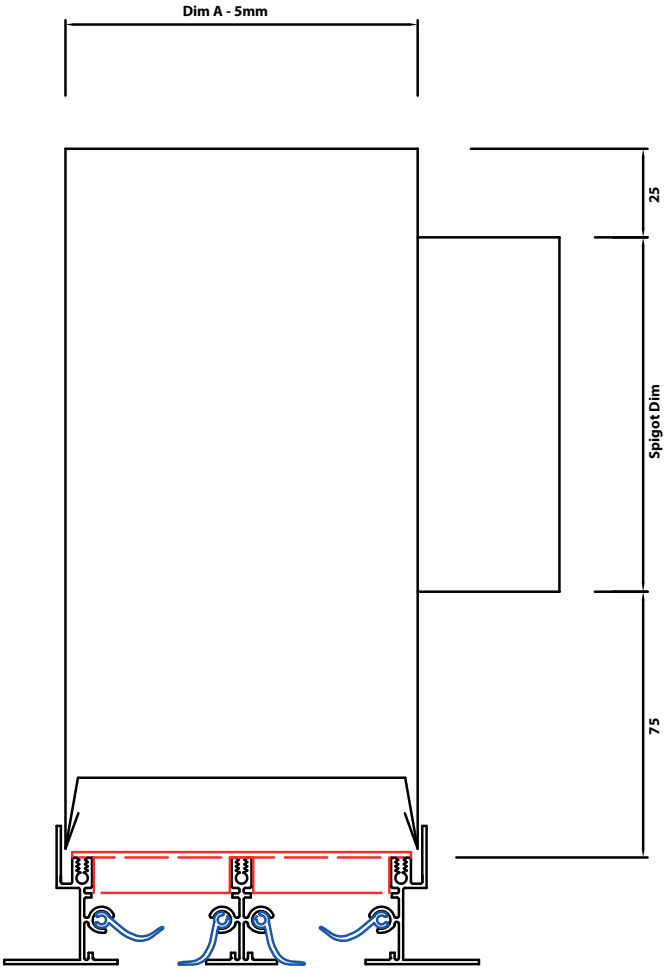
Diffuser Active Length	Throw Multiplier	Sound Level Correction
0.4	0.6	- 4 db
0.5	1.7	- 3 db
1.0	1.0	0
1.5	1.15	- 2 db
2.0	1.25	- 3 db
3+	1.30	- 5 db

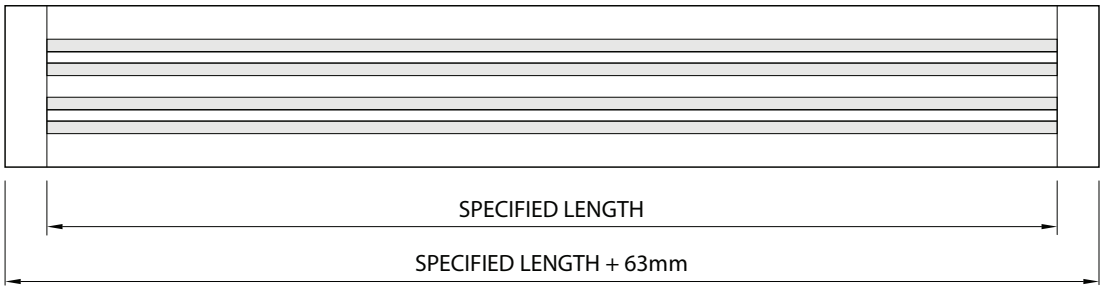
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Plenum Box Detail





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