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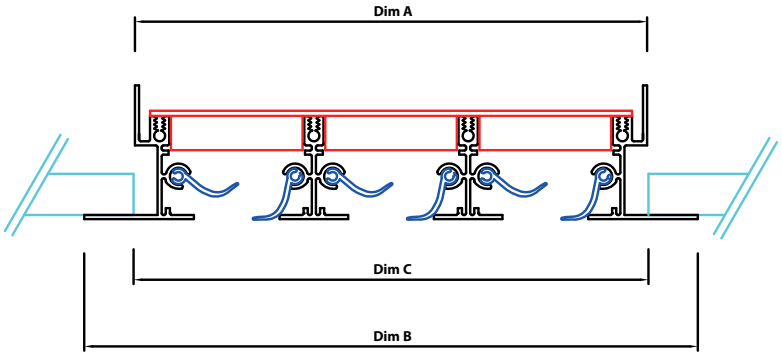
Slot Diffuser – *Type BSD-25*

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

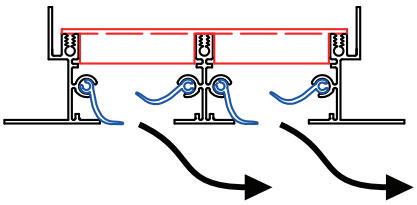
All individual slots are fully adjustable to give three different air patterns to achieve comfort criteria within the occupied zone. The Slot Diffuser can be supplied with up to 8 Slots and is manufactured in any length to suit site requirements. Mitred corners also available.



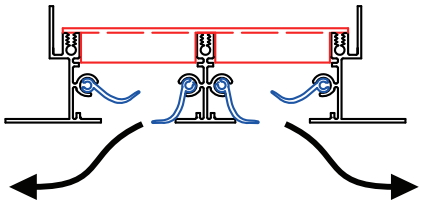
Blade Patterns



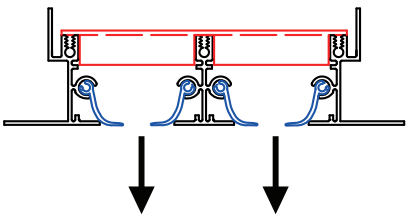
No of Slots	Dim A	Dim B	Dim C
1	60	89	70
2	105	134	115
3	150	179	160
4	195	224	205
5	240	269	250
6	285	314	295
7	330	359	340
8	395	404	385



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
BSD-P			1EF	RAL 9010	B - Black
BSD-PL			2EF		AF - As Face

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

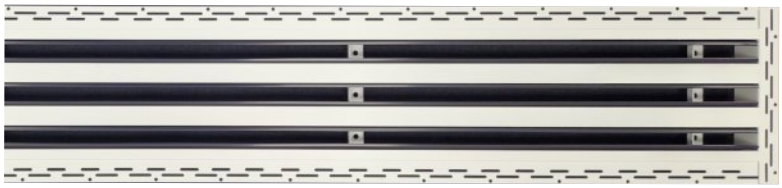
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Multiple Variations

Plaster In Frame - BSD-P





Mitred Corner



Plank Slot Diffuser - BSD-PL



Wide Flange - BSD-W



Clip In Type - BSD-M



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Performance Data 25mm Slot Diffuser Horizontal Projection with Ceiling Effect

Thows are based on a supply air temperature differential of 10º 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

continued

Air Volume l/s	No of Slots	Throw m	Total Pressure Pa	Noise Level NR
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

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	- 10º C Temp Differential	-/+ 0º C Temp Differential	+ 10º 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

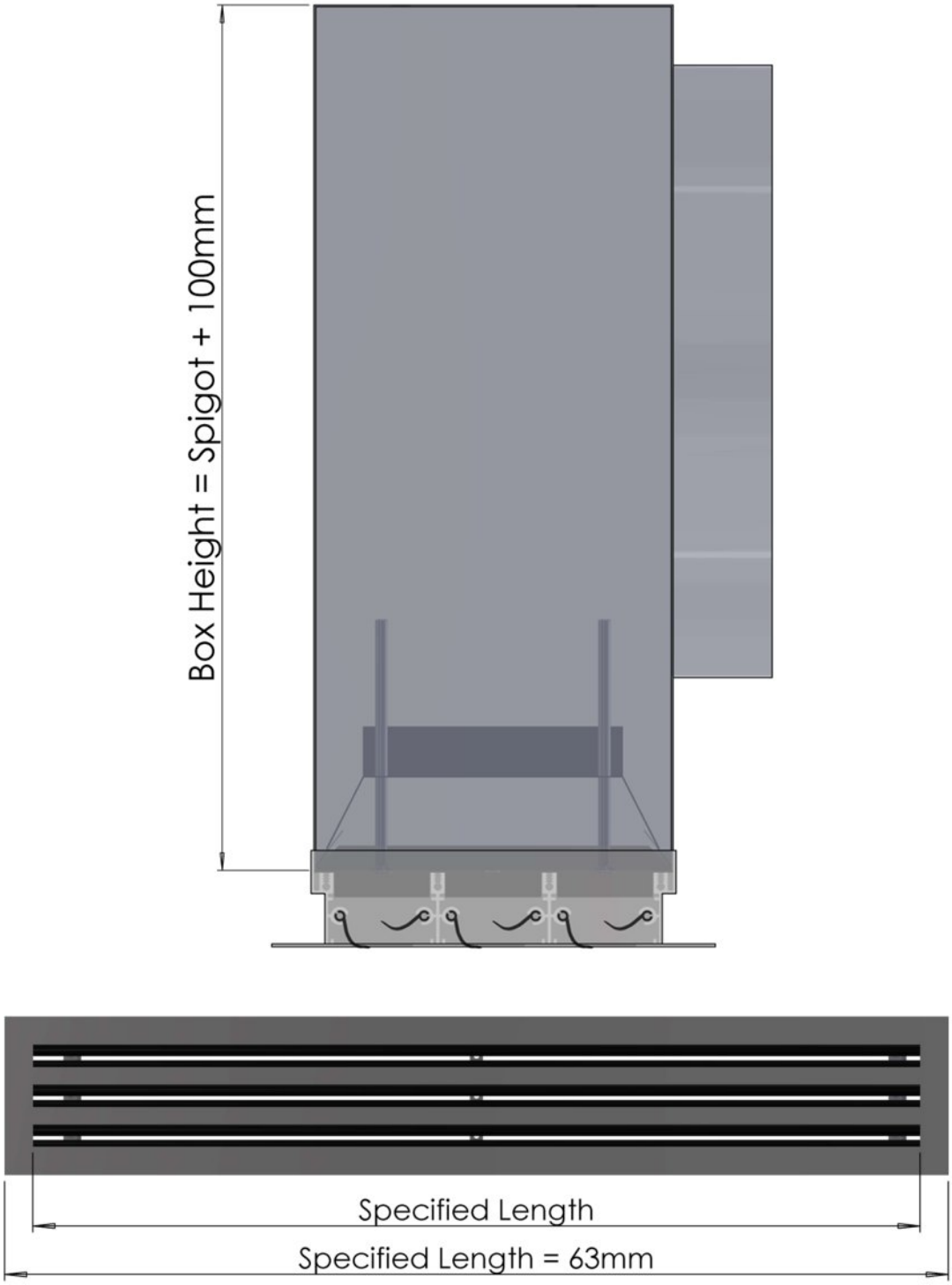
Diffuser Active Length	Throw Multiplier	Sound Level Correction
0.4	0.6	- 4 db
0.5	1.7	- 3 db
1.0	1.0	0
1.5	1.15	- 2 db
2.0	1.25	- 3 db
3+	1.30	- 5 db

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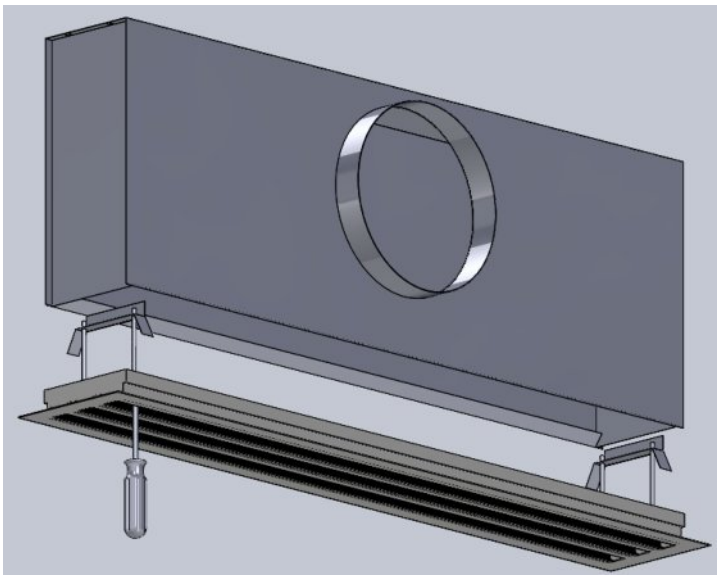
Plenum Box Detail



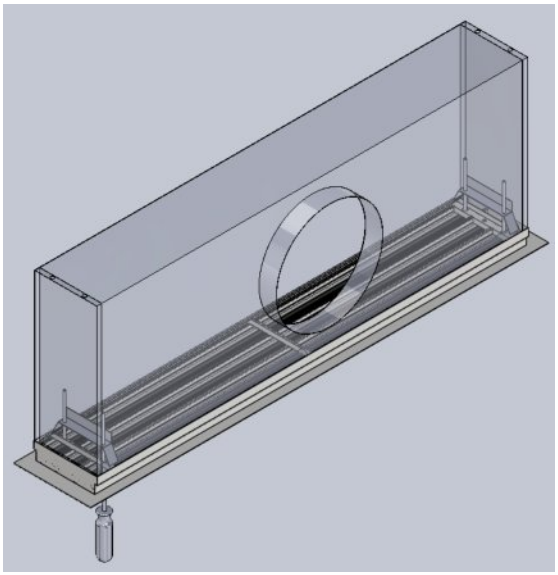
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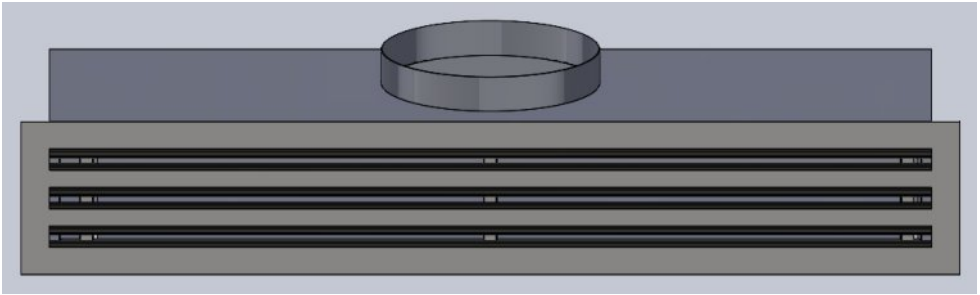
Fixing Detail



Insert a screw through the neck bracket on the slot diffuser and screw through the plenum box bracket, repeat this for the remaining plenum box brackets on the slot diffuser.



Push the slot diffuser with the plenum box brackets into the plenum box, the brackets will spring out after passing through the hemmed edges and will now sit inside the plenum box, tighten the screws to pull the slot diffuser tight to the plenum box.



The slot diffuser will now be attached to the plenum box which is sitting inside the neck of the slot diffuser.

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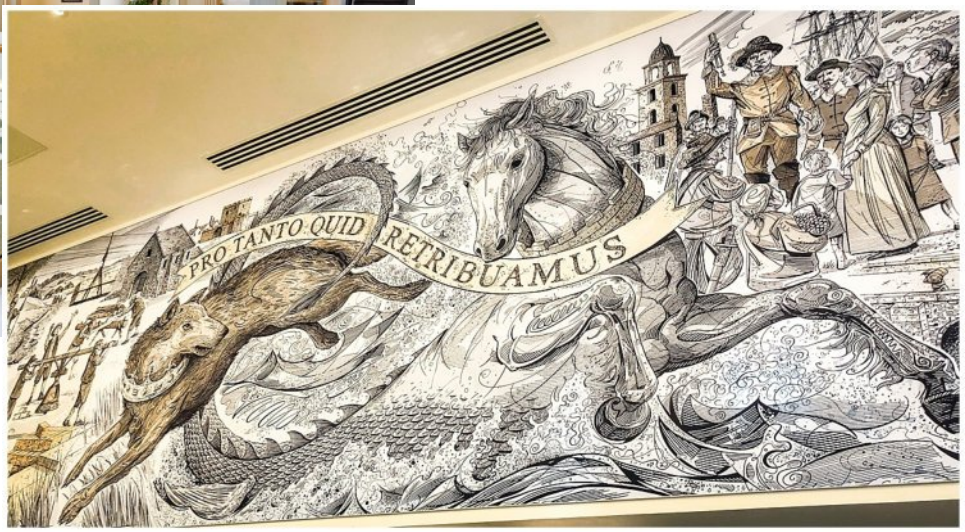
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