

# Linear Slot Diffusers

Model Slot 20 and Model Slot 25

## Features

- 1 to 8 Slots
- 20mm or 25mm Slot widths
- Ceiling or Sidewall Applications
- Modular or Continuous Lengths
- Curved Sections
- Corner Pieces
- Adjustable Discharge Pattern
- Secret Fixing
- Matching Plenum Boxes



# Air Diffusion

Grilles Diffusers Chilled Beams

Ruskin Air Management Limited  
[www.ruskinuk.co.uk](http://www.ruskinuk.co.uk)

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## Introduction

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The Air Diffusion Model Slot is designed to combine a high air change rate capacity with maximum flexibility in air pattern and volume control, suitable for either ceiling or sidewall applications. Linear slot diffusers offer unobtrusive good looks together with functional efficiency. Linear slot diffusers are particularly suited to large open plan offices, where changing occupancy layouts demand an air distribution system that includes built in adaptability to suit the relocation of internal partitioning.

Available in two slot widths; a 20mm wide or 25mm wide and from 1 to 8 slot sizes offers the widest range of variations to provide the designer with performance for higher airflows when required. SLOT20 and SLOT25 are both suitable for use in either Ceiling or Sidewall applications; the internal vanes are adjustable to provide either a horizontal or vertical air pattern discharge.

The standard flange border is 25mm but a multitude of different flange types are also available to allow the slot diffuser to be fully integrated with the ceiling design.

Purpose designed and correctly selected co-ordinating sheet metal plenum boxes may also be provided to ensure the overall performance and characteristics of the diffuser are maintained. For uniform air distribution it is recommended that plenum boxes are fitted with an equalising grid.



### Specification Diffuser

#### Material

Extruded aluminium.

#### Finishes Standard

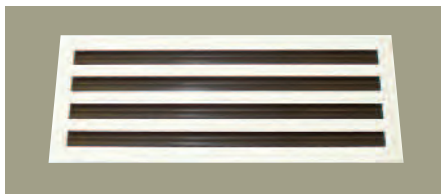
Matt white RAL 9010 frame with anodised eggshell finish blades.

#### Optional Frame

Natural anodised. AA5.  
Other colours available to special order.

#### Blades

Standard material extruded Nylon 6 in either black or white. (See below).



#### Blade Options

Extruded aluminium in black or natural anodised only.

#### End Flanges Single Units

Supplied fitted both ends.

#### Linear Runs

Supplied fitted one end only of both end units or make-up pieces.

#### Fixing Standard

Side fixing twist in brackets Type F7.  
Sliding fit alignment strips, Type SP1 are supplied as standard with all linear diffuser modules for continuous appearance.

#### Optional

'U' bracket fixing to hemmed duct Type F6.  
Duct fixed into channel Type F7.

#### Size Width

1 – 8 slots in 20mm or 25mm spacing.  
Larger to special order if required.

#### Length

Any length up to 2400mm nominal opening size.

Linear runs will be supplied in 2400mm long sections with end flanges as necessary. The exact length of the run will be made up with intermediate make-up sections.



Where exact lengths are difficult to ascertain, we recommend that make-up sections include 200mm of solid mullion at one end for site trimming. e.g. 1000mm make-up section cut at 1100mm with 200mm solid mullion.

#### Channel Stiffener

A 12mm x 12mm x 1.5mm channel stiffener is fitted to all open ended diffusers 2 slots and above. The stiffener is fitted approximately 50mm in from the diffuser ends.

#### Blanking Plates (if specified)

Supplied loose for cutting and fitting on site in sections.

#### Extract Applications

Unless specially requested otherwise, diffusers for use in extract mode will be supplied with pattern control blades fitted to match the appearance of supply units.

#### Mitred Corners

These are provided as 90° composite sections (refer to tables).

#### Special Order

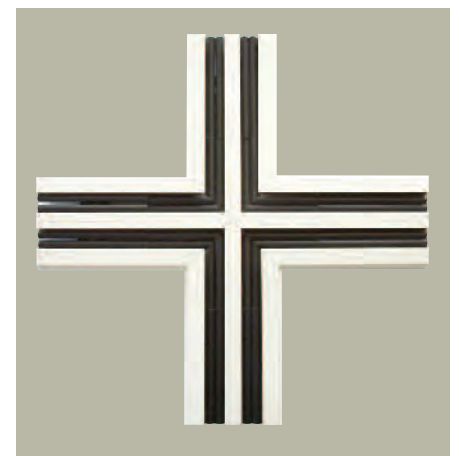
Other angles can be supplied, a template

or drawing will usually be required. This should always be as viewed from above.

#### Ordering

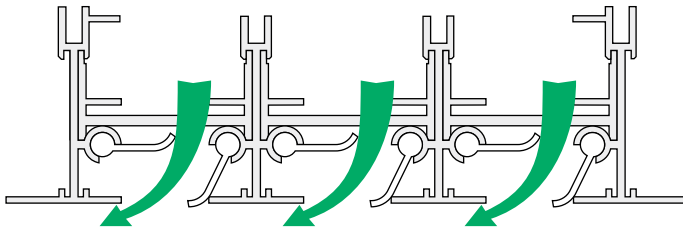
Diffusers should be ordered by the length of the opening into which they are fitted (nominal length). Specify slot 20 or slot 25. Alternatively specify overall flange dimensions.

Please refer to ordering information.

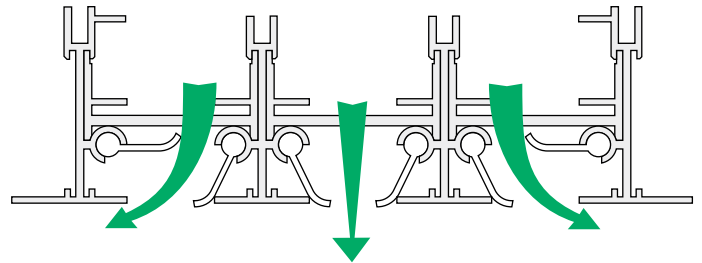


# Air Patterns

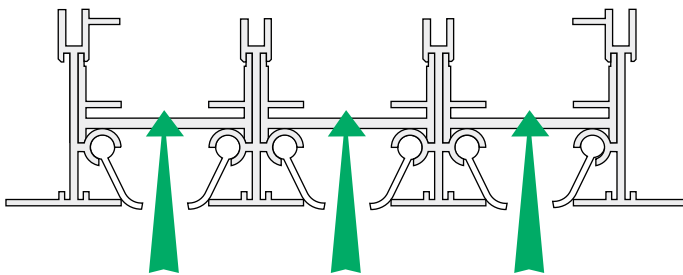
Single direction supply



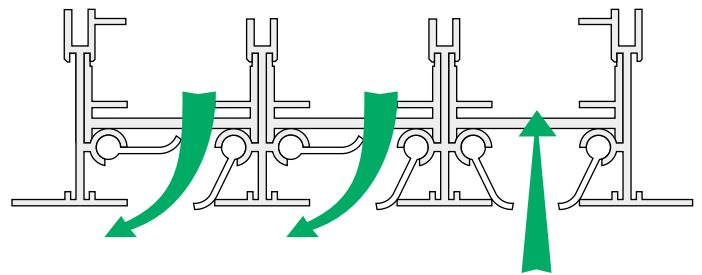
Multidirection supply



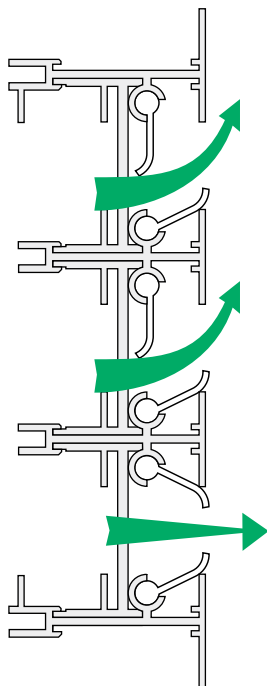
Extract



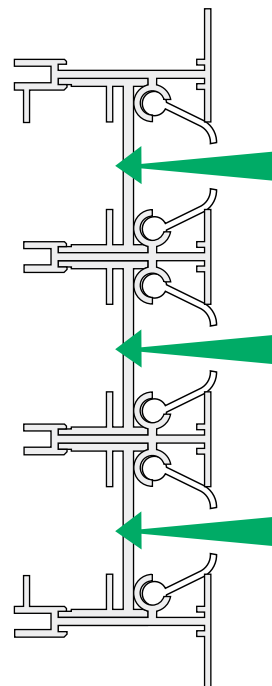
Single direction with extract



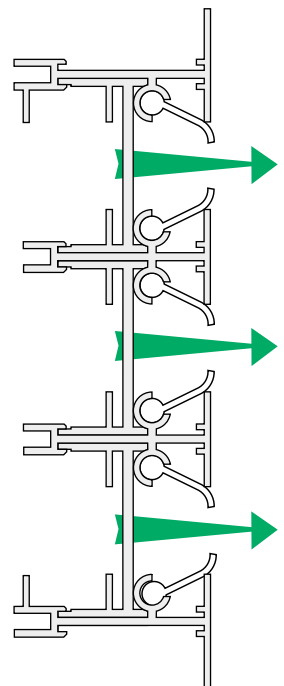
Supply with ceiling effect



Extract

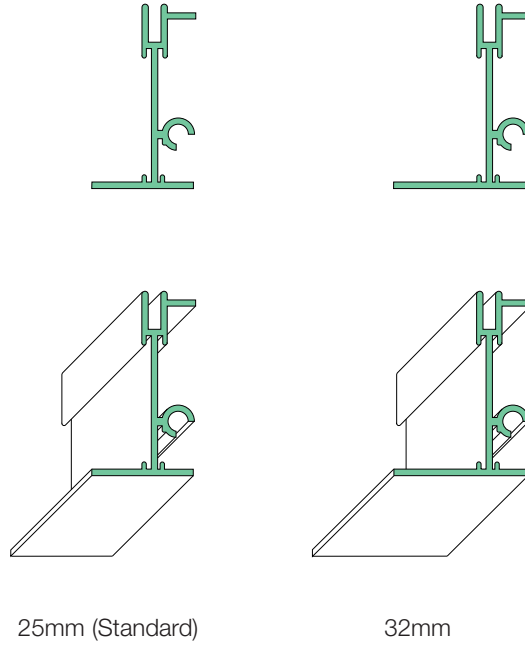


Supply free space

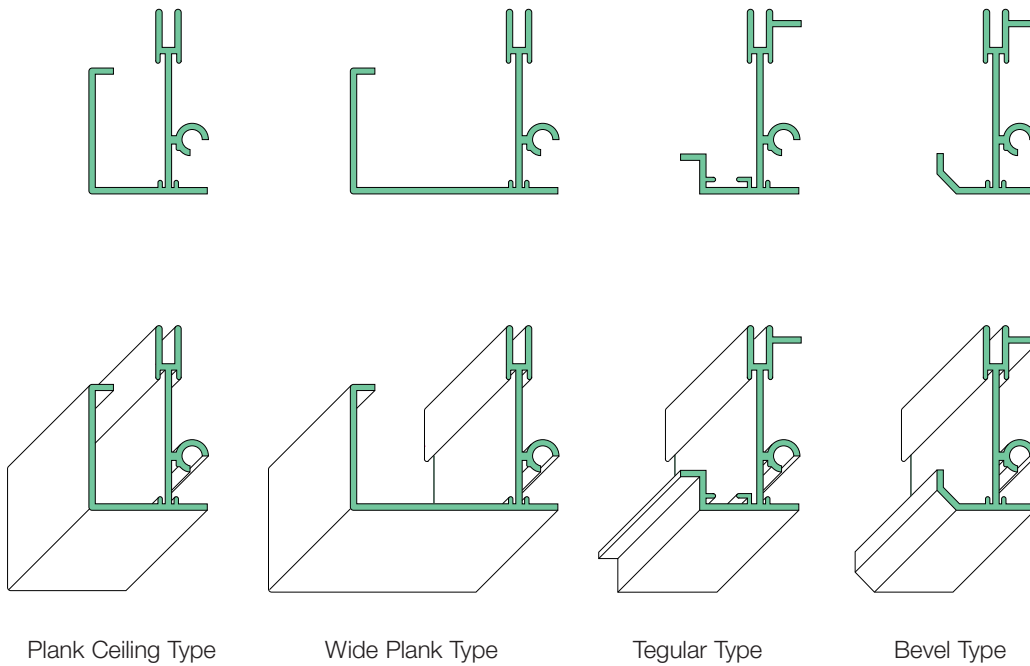


## Flange Styles

Standard 25mm, 32mm



Examples of Special Frames available on request

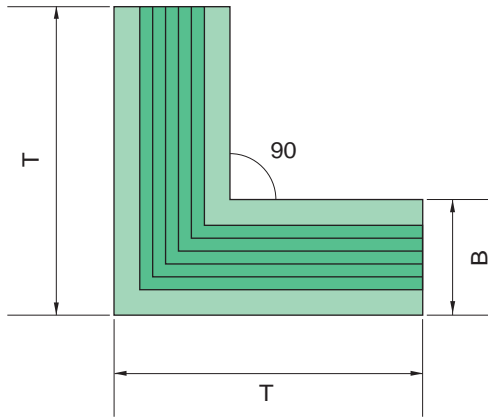


Slot Diffuser to coordinate with ceiling, having extra wide outer flange with Tegular type edge.

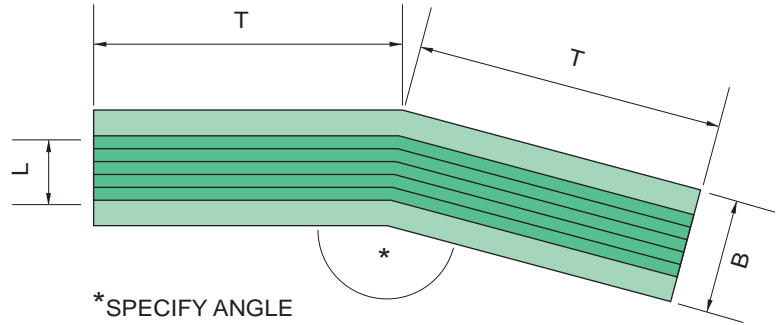
# Corner Sections

All dimensions shown are in mm.

## 90° Mitred corner



## Multidirection supply



B = Overall width  
 T = Overall length  
 L = No. of slots

### 25C Slot 20

No. of Slots	T	B
1	200	70
2	200	110
3	300	150
4	300	190
5	400	230
6	400	270
7	600	310
8	600	350

### 25C Slot 25

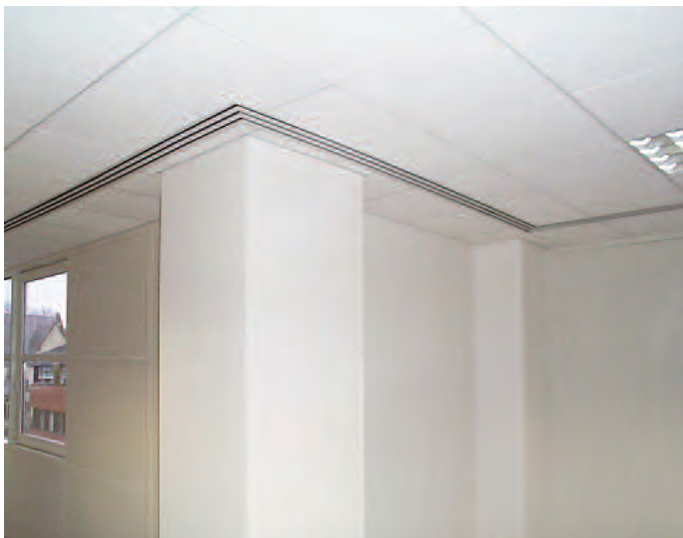
No. of Slots	T	B
1	200	75
2	200	120
3	300	165
4	300	210
5	400	255
6	400	300
7	600	345
8	600	390

### 32C Slot 20

No. of Slots	T	B
1	200	84
2	200	124
3	300	164
4	300	204
5	400	244
6	400	284
7	600	324
8	600	364

### 32C Slot 25

No. of Slots	T	B
1	200	89
2	200	134
3	300	179
4	300	224
5	400	269
6	400	314
7	600	359
8	600	404



## Linear Slot Diffusers Selection Procedure

### Data

**1.** Horizontal projection with ceiling effect nomogram readings are based on 10 °C cooling application. Use this nomogram for horizontal projection ceiling mounted diffusers or horizontal projection wall mounted diffusers with ceiling effect.

**2.** Vertical/sidewall projection nomogram readings are based on Isothermal conditions in free space without wall effect. For supply/room temperature differential for vertical throw applications from ceiling see 'Vertical Throw Multipliers for Differential Temperatures' table.

**3.** Use vertical/sidewall projection nomogram readings for sidewall supply application in free space. Please note that throw values apply to Isothermal conditions only and technical advice should be sought before using this method of supply for heating or cooling.

**4.** Nomograms are based on 1.0 metre active slot lengths. For other active slot lengths see correction table.

**5.** Pressure drop and sound power level readings obtained from nomograms are for slot diffusers only.

**6.** For pressure drop additions and sound ratings for plenum boxes see separate table.

**7.** When using slot diffuser in extract applications select performance using vertical/sidewall projection nomogram and ignore throw values.

**8.** Sound values given for plenum boxes are approximate only and dependent on spigot entry conditions. Where sound requirements are critical acoustic lining of plenum boxes should be considered. Any space requirement to accommodate lining material must be added to selected box size.

### Selection Procedure

The method set out below used in conjunction with the tabulated data allows slot 20 and 25 linear diffusers to be selected for supply or extract modes in either ceiling or sidewall applications.

Air pattern is determined by the position of the pattern control blades as illustrated on page 3.

### Method – Slot Diffuser

**1.** Establish volume flow rate per metre by dividing total air volume by the active slot length to give litres/metre.

**2.** Using appropriate nomogram place a straight edge through the volume as calculated and position to pass through required throw value with satisfactory noise and pressure readings. Select suitable slot width and number of slots where straight edge passes through slot selection line. Finally realign straight edge through volume and slot selected points and read exact throw, sound and pressure figures.

**3.** Readings obtained from the above using horizontal ceiling nomogram are based on 1 metre active slot length. (See note on nomogram). For other active lengths see 'Active Length Correction Table' for throw multiplier and sound level adjustment.

**4.** Readings obtained from the methods above using vertical/sidewall projection nomogram are based on Isothermal conditions. For vertical throw values for temperature differential see 'Vertical Throw Multipliers for Differential Temperatures' correction table to obtain throw multiplier for varying number of slots.

### Method – Plenum Boxes

**1.** Determined volume of plenum box by multiply chosen length of box x volume/metre of slot. (A maximum box size of 1.8m long is recommended).

**2.** Select plenum spigot size from table on page 9 Maximum entry velocity of 3.5 m/sec is recommended. Velocities in excess of this may lead to noise generation.

**3.** From table of 'Plenum Box Pressure Drops and Sound Ratings' read off additional pressure drop to be added to slot diffuser pressure drop from nomogram. Ensure that plenum box sound power level is not more than slot diffuser reading if latter is design criteria.

**4.** Where it is not possible to accommodate standard plenum boxes, special configurations are available, but should always maintain an equivalent cross-sectional area to a standard box. Consideration should also be given to the inlet spigot in respect of positioning, sizing and inlet velocities. Consult our technical department for detailed advice.

### Commissioning

Calculation  
Volume  $9m^3/s$  =

Av. measured velocity (m/s) x

active length (m) x  
number of slots x  
flow factor.

The flow factor is simply the width of the slot in metres at the point where the velocity is measured.

### Maximum flow factors

Slot 20		Slot 25	
Hor.	Ver.	Hor.	Ver.
0.009	0.011	0.011	0.011

It should be noted that throw figures given apply to maximum blade openings in the configurations listed. If blade opening size as measured (in metres) should be substituted.

### Velocity measurement

to measure the velocity it is important that an instrument with a measuring head small enough to fit the blade opening is used. The most suitable instrument is a hot wire anemometer. Take velocity readings at the blade openings at a maximum of 150mm centres along the active length to obtain an accurate average velocity and use this value in the formula above.

### Exhaust

Procedure same as supply but with the anemometer probe reversed.

# Linear Slot Diffusers Selection Procedure

**Example**

An 8.0 metres long ceiling mounted horizontal throw slot diffuser is required to deliver a total volume of 600 L/sec with a maximum throw of 6.1 metres to a terminal velocity of 0.50 m/s\*. The active length of diffuser is 6.0 metres supplied from 4 – 1500mm long supply plenums.

Active slot volume rate =  
 $\frac{600}{6} = 100 \text{ L/s/m}$

Active slot lengths are 1500mm and from 'Active length Correction Table', a multiplier of 1.15 must be applied.

Nomogram throw x 1.15 = Required throw.

Therefore:  $\frac{\text{Required throw}}{1.15} = 6.1\text{m} =$   
 $\frac{5.3\text{m}}{1.15}$  for nomogram selection.

From nomogram using volume of 100 L/s/m and throw of 5.3m select 3 slot 20 diffuser with NR sound power level of 27 and total pressure drop of 17 Nm<sup>2</sup>. From 'Active Length Correction Table', obtain a sound power level correction of + 2 NR giving a total of 29 NR.

Volume for each plenum box =  
 $\frac{600}{4} = 150 \text{ L/s}$ .

From Plenum Box Spigot Sizing table opposite select spigot size relative to chosen inlet velocity. At 3.0 m/s we obtain a spigot size of 275mm diameter and referring to 'Plenum Box Pressure Drops and Sound Ratings' opposite, we can see that the plenum pressure drop is 8.0 Pa with a sound rating NR of 30.

As sound power level reading is in excess of nomogram reading of 29 NR use latter figure. If 29 NR is maximum critical design criteria increase spigot size to 300 diameter at 2.5 m/s and NR 25.

Total pressure drop for slot diffuser and plenum box = 17 Pa + 8 Pa = 25 Pa.

\* Average room velocity.

**Plenum box drops and sound ratings**

	Spigot velocity m/s					
	1.5	2.0	2.5	3.0	3.5	4.0
<b>Pressure drop Pa*</b>	2	4	6	8	12	16
<b>Sound power level N*</b>			25	30	35	40

\*approximate – dependent upon entry conditions.

Pressure drops additional to slot diffuser.  
 Sound power level – use higher of slot or plenum value.

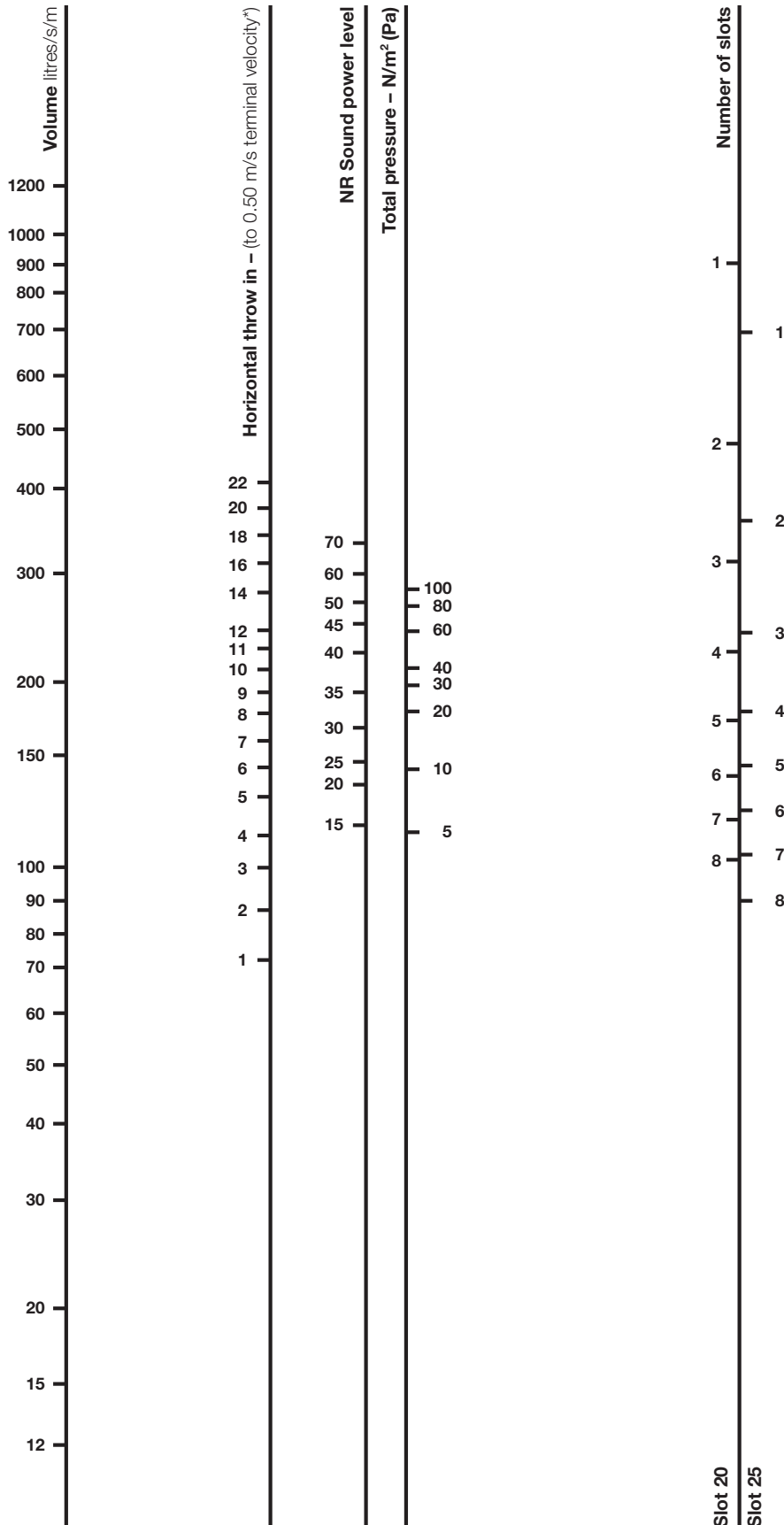
**Vertical throw multipliers for differential temperatures**

No. of slots	Temperature differential ambient / supply (°C)						
	-15	-10	-5	0	+5	+10	+15
1	1.54	1.33	1.15	1.0	0.87	0.75	0.65
2	2.0	1.59	1.26	1.0	0.79	0.63	0.50
3	2.46	1.88	1.37	1.0	0.75	0.53	0.41
4-8	2.71	1.95	1.4	1.0	0.71	0.51	0.37

**Plenum box spigot volumes (l/s)**

Diameter mm	Spigot velocity m/s					
	1.5	2.0	2.5	3.0	3.5	4.0
100	10	15	19	22	26	30
125	18	24	30	35	41	47
150	25	34	42	51	60	68
175	35	46	58	70	82	94
200	45	60	75	91	109	121
225	58	77	96	117	137	151
250	71	95	120	142	170	191
275	86	115	145	172	205	230
300	103	139	172	208	240	275
325	120	160	200	240	280	320
350	140	188	235	280	328	375
400	185	245	310	370	430	495

### Linear Slot Diffusers Selection Nomogram Horizontal Projection with Ceiling Effect



Active length correction table

Diffuser Active length (m)	throw multiplier	Sound level correction
0.4	0.6	-4 db
0.5	0.7	-3 db
1.0	1.0	0
1.5	1.15	-2 db
2.0	1.25	-3 db
3.0+	1.30	-5 db

Throw is based on a temperature differential of 10 °C cooling to terminal velocity of 0.50 m/s\* for 1 metre active length with a room height of 2.7m when mounted flush with an unobstructed flat ceiling.

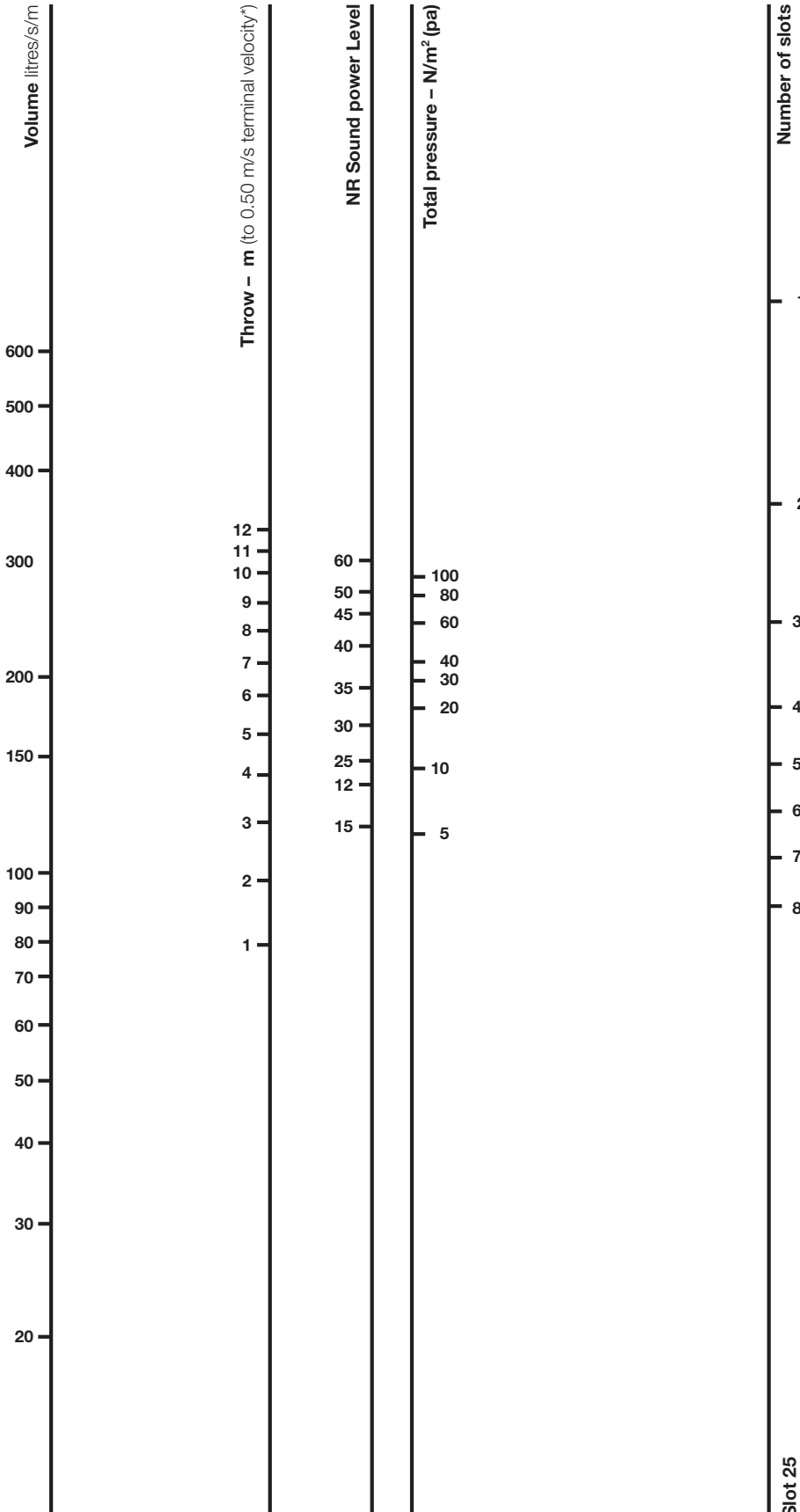
For other active lengths refer to above correction table.

Throw factors are for throw in one direction by alternating throw direction at each blade length (600mm) a factor of x 0.6 can be used.

All NR ratings are based on a room absorption of 8 db.

\*Average room velocity

# Linear Slot Diffusers Selection Nomogram Vertical / Sidewall projection in free space (No Wall or Ceiling Effect)



Active length correction table

Diffuser Active length (m)	throw multiplier	Sound level correction
0.4	0.6	-4 db
0.5	0.7	-3 db
1.0	1.0	0
1.5	1.15	-2 db
2.0	1.25	-3 db
3.0+	1.30	-5 db

Throw is based on a isothermal conditions to a terminal velocity of 0.50 m/s\* for 1 metre active lengths.

For other active lengths refer to above correction table.

For other temperature differentials for vertical projection see throw multiplier correction tables.

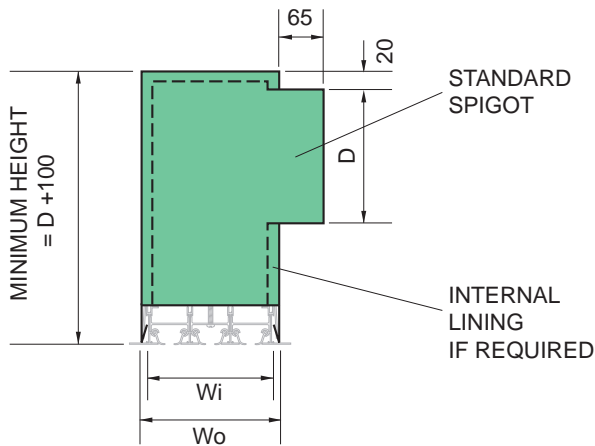
Throw factors are for throw in one direction by alternating throw direction at each blade length (600mm) a factor of x 0.6 can be used.

All NR ratings are based on a room absorption of 8 db.

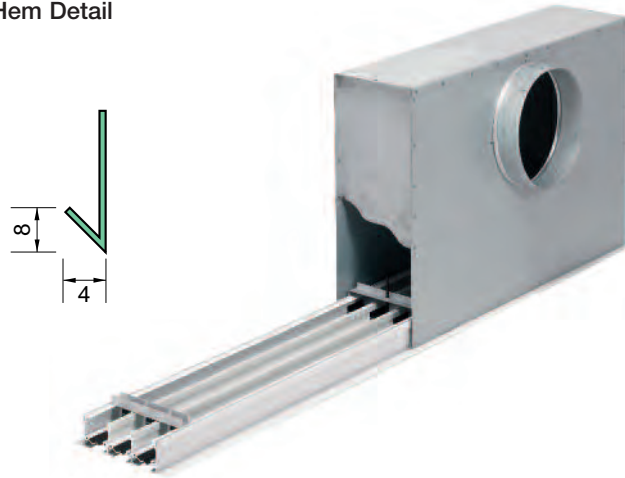
\*Average room velocity

### Standard Fixing Details

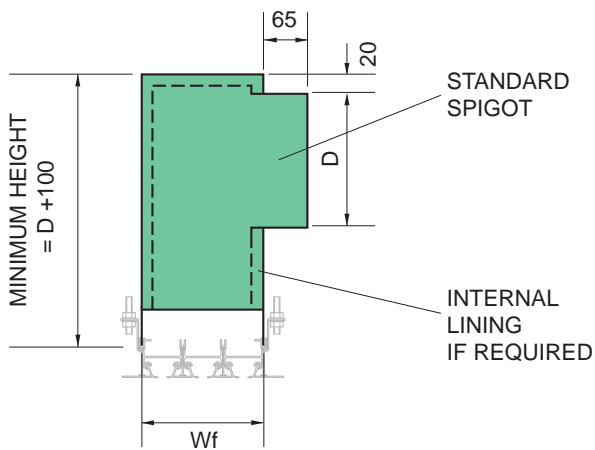
F6 (Plaster Fix) Using 32mm Flange



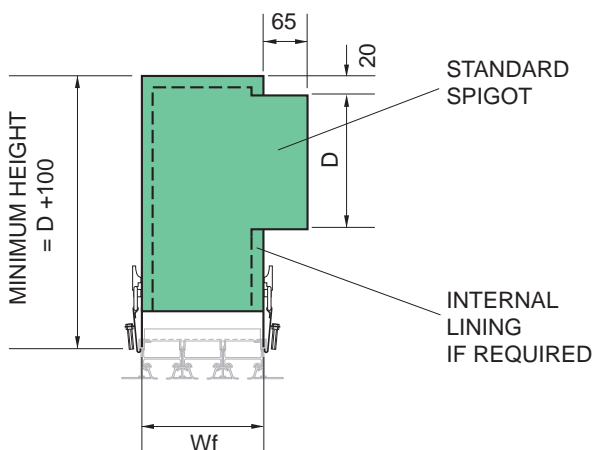
Hem Detail



F7 (Suspension Fix) Using 32mm Flange

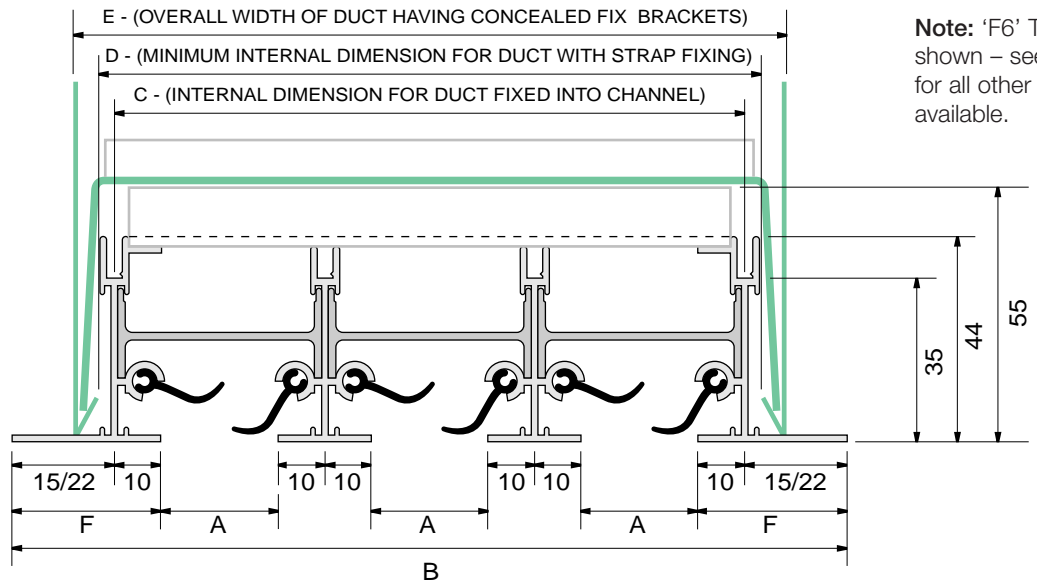


F9 (Toggle Fix) 25 or 32mm Flange



Dim	Description	Number of Slots															
		1		2		3		4		5		6		7		8	
		20	25	20	25	20	25	20	25	20	25	20	25	20	25	20	25
Wo	Overall width hemmed box	56	61	96	106	136	151	176	196	216	241	256	286	296	331	336	376
Wi	Clear inside hemmed box	48	53	88	98	128	143	168	188	208	233	248	278	288	323	328	368
Wf	Clear internal size-fork fixing	40	45	80	90	120	135	160	180	200	225	240	270	280	315	320	360

# Dimensions and Details



25C Slot 20

No. of Slots	A	B	C	D	E	F
1	20	70	40	48	56	25
2	20	110	80	88	96	25
3	20	150	120	128	136	25
4	20	190	160	168	176	25
5	20	230	200	208	216	25
6	20	270	240	248	256	25
7	20	310	280	288	296	25
8	20	350	320	328	336	25

25C Slot 25

No. of Slots	A	B	C	D	E	F
1	25	75	45	53	61	25
2	25	120	90	98	106	25
3	25	165	135	143	151	25
4	25	210	180	188	196	25
5	25	255	225	233	241	25
6	25	300	270	278	286	25
7	25	345	315	323	331	25
8	25	390	360	368	376	25

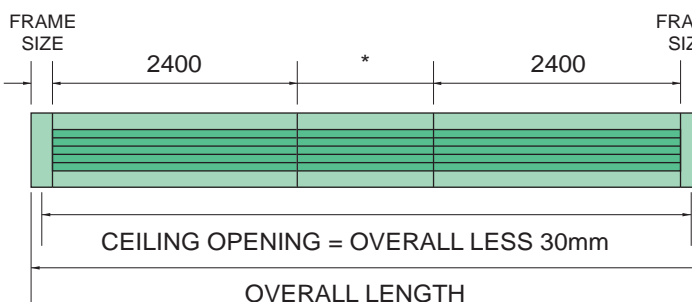
32C Slot 20

No. of Slots	A	B	C	D	E	F
1	20	84	40	48	56	32
2	20	124	80	88	96	32
3	20	164	120	128	136	32
4	20	204	160	168	176	32
5	20	244	200	208	216	32
6	20	284	240	248	256	32
7	20	324	280	288	296	32
8	20	364	320	328	336	32

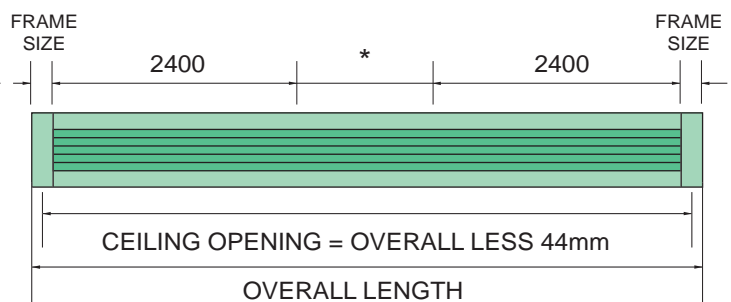
32C Slot 25

No. of Slots	A	B	C	D	E	F
1	25	89	45	53	61	32
2	25	134	90	98	106	32
3	25	179	135	143	151	32
4	25	224	180	188	196	32
5	25	269	225	233	241	32
6	25	314	270	278	286	32
7	25	359	315	323	331	32
8	25	404	360	368	376	32

25C Type slot run



32C Type slot run



\*Make up pieces manufactured to suit

### Ordering Information – Slot Diffuser

#### Example

Frame	Slot	No. of Slots	Slot Width	End Flanges	Fix	Frame Finish	Blade Finish
25C	Slot	4	25	E1	F6	3	4
		1		<b>E0</b> Open end		<b>1</b> Natural anodised aluminium	
		2		<b>E1</b> End plate one end			
		3		<b>E2</b> End plate two ends		<b>3</b> White RAL 9010 matt	
		4		<b>EP</b> End plate			
		5		<b>ME</b> Mitred End		<b>6</b> Other colours available to special order	
		6					
		7					
<b>25C</b>	25mm, flat surface flange	8	<b>20</b> <b>25</b>		<b>F6</b> 'U' Bracket fixing		94 Standard Black Nylon
<b>32C</b>	32mm, flat surface flange (suitable for plaster ceiling)				<b>F7</b> Side fixing twist in brackets		93 White Nylon
					<b>F9</b> Toggle fix		1 Natural Anodised Aluminium (Aluminium blade)
<b>SPC</b>	Other formats available on request				<b>SP</b> Special fixing		4 Black Anodised (Aluminium blade)
							6 Other colours available to special order

The model described in the example above would be : 25C - Slot 4 - 25 - E1 - F6 - 3 - 4

**Important:** please allow for any lighting zones when selecting plenum boxes

**Important Note:** All orders must be addressed to AIR DIFFUSION, Ruskin Air Management Limited.

## Plenum Boxes

### Plenum Boxes

Supplied unlined as standard with side entry spigot.

Plenum boxes can be supplied internally lined with 12mm class "O" foam at extra cost. Apply to sales office for price.

### Specifications

#### Material

Standard is a minimum of 0.7mm thick galvanised or zinc coated steel.

#### Construction

Plenum boxes are generally fabricated in 3 sections having tray ends, which are either mechanically joined or spot welded to form an airtight seal. Flush ends (no tray indents) are also available. As standard, spigots are side entry and located centrally. All boxes are supplied with plain edges, as standard, (F0 fixing).

#### Standard Installation Method

The tray ends of the plenum box incorporate a 15mm indent, on each side to allow for 8mm drop rod fixings, which gives space for holes to be drilled (by others) without disturbing the active section.

#### Installation Options

Fixing lugs can be factory fitted if preferred or special fixing methods (by others) may be used.

For plenum boxes having flush ends separate hanging brackets/fixing lugs need to be fitted to allow independent support of diffuser and plenum box.

#### Accessories

Joggled style plenum boxes or pan adapters.

Spigot dampers include; manual quadrant, teleflex operation or cord operated.

6mm thick Class 'O' internal lining (Standard).

Equalising grids (50% free area perforated mesh).

Turning Vanes.

Fixing lugs or special fixings (by others).

Flush Ends (No Indent).

#### Finish

Self finish galvanised or zinc coated steel as standard.

Black paint can be applied to internal faces if required. (At extra cost).

### Pressure Drops and Sound Rating

The pressure drop given is for supply grille with damper fully open. When the grille is installed with plenum box, the pressure loss of the box has to be added to the grille.

	Spigot Velocity m/s					
	1.5	2.0	2.5	3.0	3.5	4.0
Pressure Drop Pa*	2	4	6	8	12	16
Sound Power Level NR*	-	-	25	30	35	40

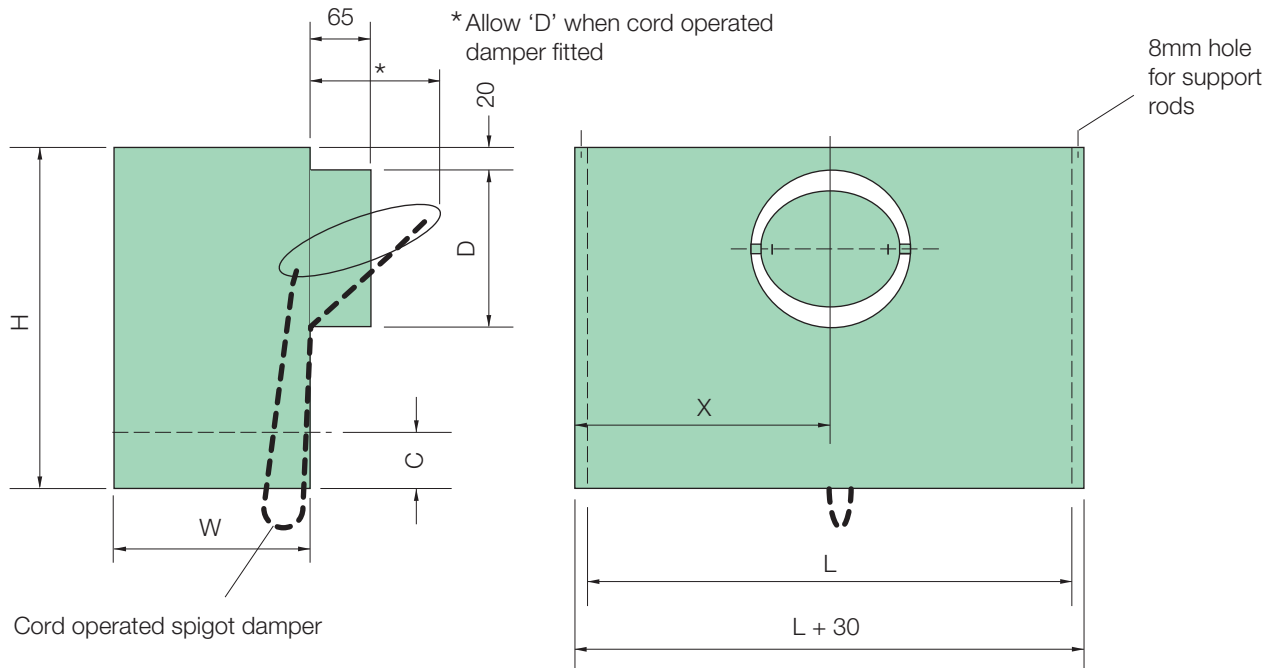
\* The figures given are approximate - dependent upon spigot entry conditions

### Plenum Box Spigot Volumes (l/s)

Diameter (mm)	Spigot Velocity m/s					
	1.5	2.0	2.5	3.0	3.5	4.0
100	10	15	19	22	26	30
125	18	24	30	35	41	47
150	25	34	42	51	60	68
175	35	46	58	70	82	94
200	45	60	75	91	109	121
225	58	77	96	117	137	151
250	71	95	120	142	170	191
275	86	115	145	172	205	230
300	103	139	172	208	240	275
325	120	160	200	240	280	320
350	140	188	235	280	328	375
400	185	245	310	370	430	495

## Plenum Box Dimensions

### Type PBL-1

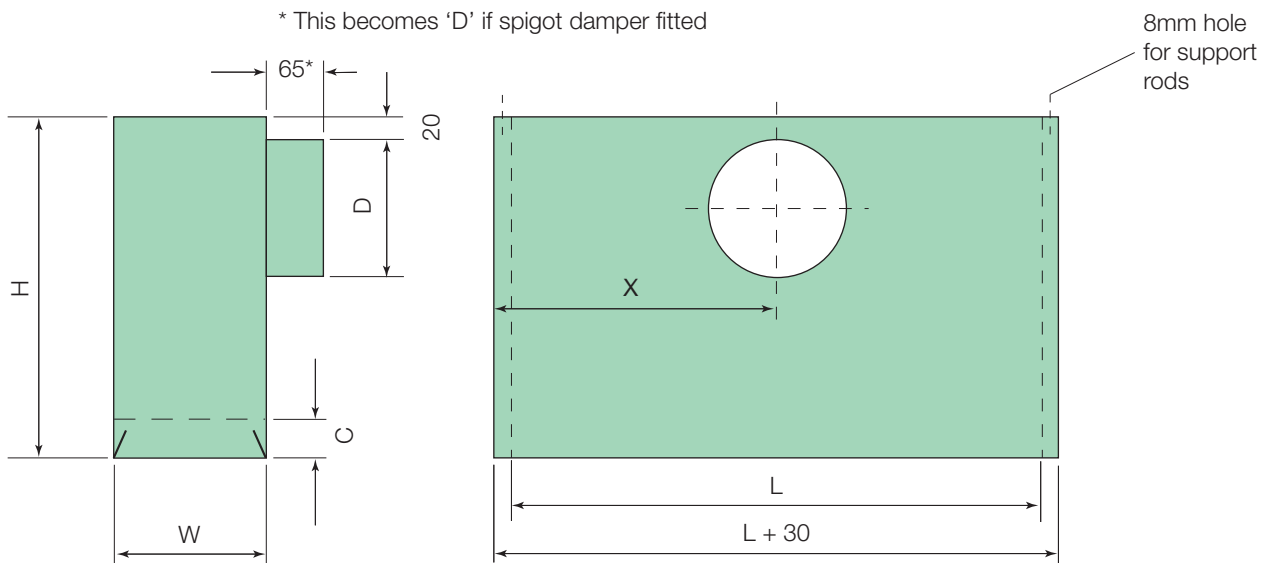


#### Order Detail

H	L	W	D	C		X
				LH	RH	
-	-	-	-	-	-	-

Angle Bracket fixing available if required.

### Type PBL-1 for F6 fixing



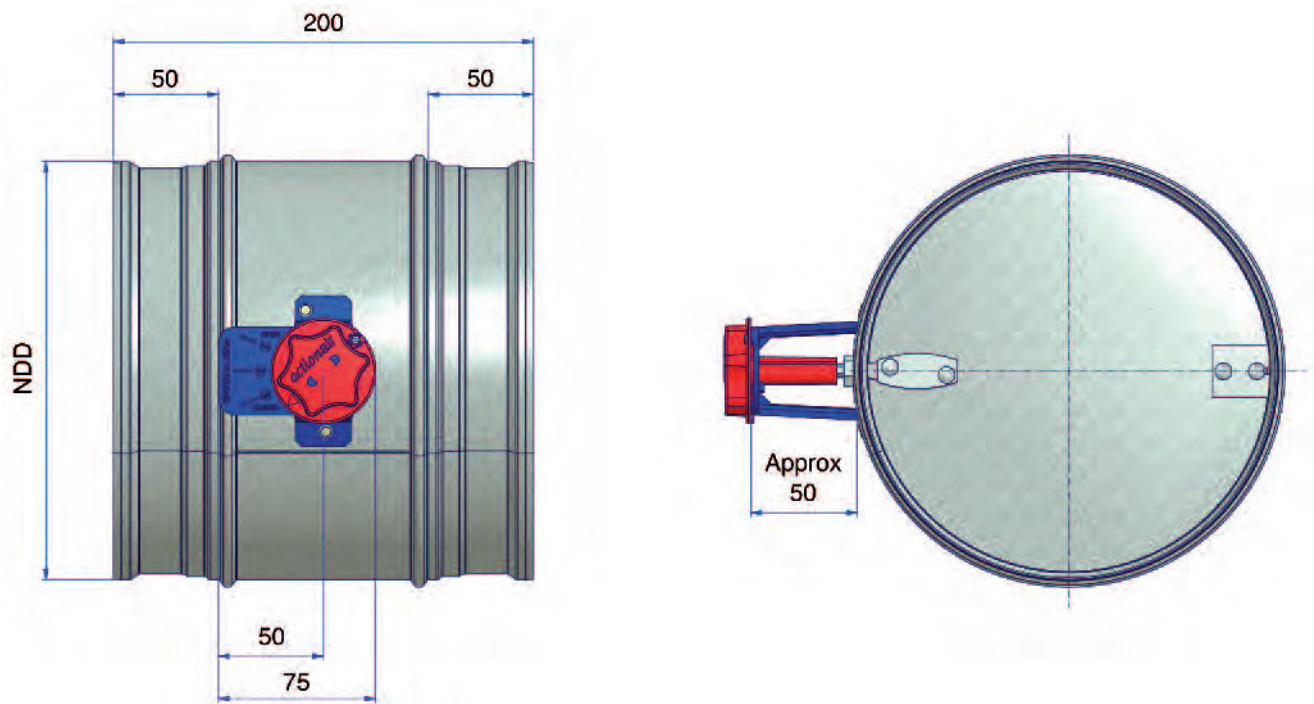
#### Order Detail

H	L	W	D	C		X
				LH	RH	
-	-	-	-	-	-	-

Boxes shown with Indented Ends.  
Plain End boxes also available.

## Plenum Box Dimensions Continued

### Manual Quadrant Control Damper



Model Ref	* NDD	Open Blade Protrusion (mm)	DW 144 Casing Leakage Class	Weight (Kg)
CB	100	–	C	0.56
CB	125	–	C	0.71
CB	150	–	C	0.85
CB	160	–	C	0.91
CB	200	–	C	1.17
CB	250	20.5	C	1.53
CB	300	45.5	C	1.92
CB	315	53	C	2.05
CB	350	70.5	C	2.35
CB	355	73	C	2.40

\* NDD: Nominal duct diameter. Actual sizes are in accordance with BS EN 1506: 1998

### Ordering Information – Plenum Boxes

#### Example

Model	Internal Lining	Spigot Damper	Options	Dimensions
PBL-1	U	N	0	
<b>Plenum Boxes</b>	<b>U</b> – Standard Unlined Plenum Box	<b>N</b> – Plain spigot no damper.	<b>0</b> – No options.	<b>See example below</b>
<b>PBL-1</b> Linear Plenum Box with either a circular or square side entry spigot	<b>L</b> – 6mm Class ‘O’ Internal Lining. (Standard)	<b>Q</b> – Quadrant damper.	<b>1</b> – Internal faces painted black.	
<b>PBL-2</b> Linear Plenum Box having either a circular or square top entry spigot		<b>T</b> – Teleflex damper fitted to spigot.	<b>2</b> – Equalising grid.	
<b>PBL-3</b> Linear Plenum Box with joggle section having either a circular or square side entry spigot		<b>C</b> – Cord operated damper fitted to spigot.	<b>3</b> – Fixing lugs fitted to side of plenum.	
			<b>4</b> – Profile ends on each end of plenum.	
			<b>5</b> – Hemmed Edge for secret strap fixing.	

#### Dimensions PBL - 1, PBS - 2, Example

Neck Size	Plenum Height	Circular Spigot Diameter	OR	(Sq. / Rect. Spigot Width x Height)	Centre Line of Spigot
<b>L x W</b> 450 x 450	<b>H</b> 350	<b>∅D</b> 250		<b>C x E</b> 0	<b>G</b> 0

‘0’ Denotes Standard.

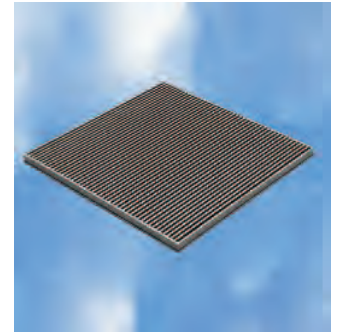
**Important Note:** All orders must be addressed to AIR DIFFUSION, Ruskin Air Management Limited.

**Note:** Redesign may occur which supersedes the information in this brochure. Please refer to our website for latest information.

### Product Range

- Swirl Diffusers
- Displacement Ventilation Diffusers
- Perforated and Louvre Face Ceiling Diffusers
- High Induction Slot Diffusers
- Slot and Fixed Blade Linear Diffusers
- Cylinder and Jet Nozzle Diffusers
- Circular Diffusers and Air Valves
- Floor Grilles
- Linear Bar Grilles
- Wall and Ceiling Grilles
- External Louvres
- Chilled Beam Panels
- Systempac
- Miscellaneous

#### Floor Grilles



#### Swirl Diffusers



#### Wall and Ceiling Grilles



#### Chilled Beam Panels



## **Ruskin Air Management Limited** **a BS EN ISO 9001 registered company**

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Due to a policy of continuous product development the specification and details contained herein are subject to alteration without prior notice.

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## **Air Diffusion**

Grilles Diffusers Louvres Chilled Beams