

# Linear Floor Grilles

Models FG, F20, F25 and FRO

## Features

- Model FG  
Recessed Linear Floor Grille
- Model F20 and F25  
Flanged Linear Floor Grille
- Model FRO  
Roll Out Floor Grille



# Air Diffusion

Grilles Diffusers Louvres Chilled Beams

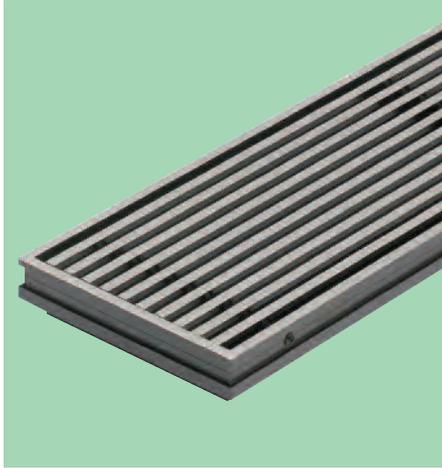
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[www.ruskinuk.co.uk](http://www.ruskinuk.co.uk)

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## Model FG



### Description

Model FG Light or Medium duty linear floor grille is designed to satisfy light or medium load requirements in recessed openings. Constructed from aluminium extrusions using a 6.5mm blade on a 13.5mm pitch with a flangeless border having a fixed core as standard or optional removable core. The Model FGL has a light duty inner blade whilst the Model FGM includes an 'I' Beam inner blade for added strength in medium duty applications. Model FG can be used on either supply or extract systems and may be fitted with an optional opposed blade damper.

### Finish

Standard finish is brushed aluminium. A nylon coating to a standard RAL colour or a Shadow Line finish may also be provided, as special options.

### Dimensions

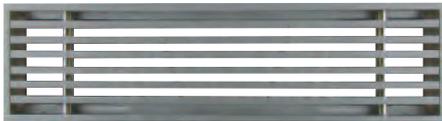
Supplied as a single section to a maximum nominal length of 1800mm and up to a maximum overall width of 300mm. To form a continuous run, individual sections are supplied for bolting together on site, by others.

### Standard Installation Method

For recessed installation, into prepared openings, by others.

### Model Types

**Model FGL-G-O** is supplied as a Light Duty grille only, with a fixed core.



Front view



Rear view

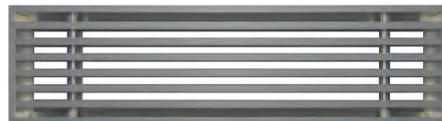
**Model FGL-R-O** is supplied as a Light Duty grille, with a fixed core and complete with an aluminium opposed blade damper, which is adjusted through the grille core.



Shown with core removed.

**Model FGL-R-RC** is supplied as a Light Duty grille, with a removable core and complete with an aluminium opposed blade damper, which is adjusted through the grille core.

**Model FGM** is supplied as a Fixed Core, Medium Duty grille only.



Front view



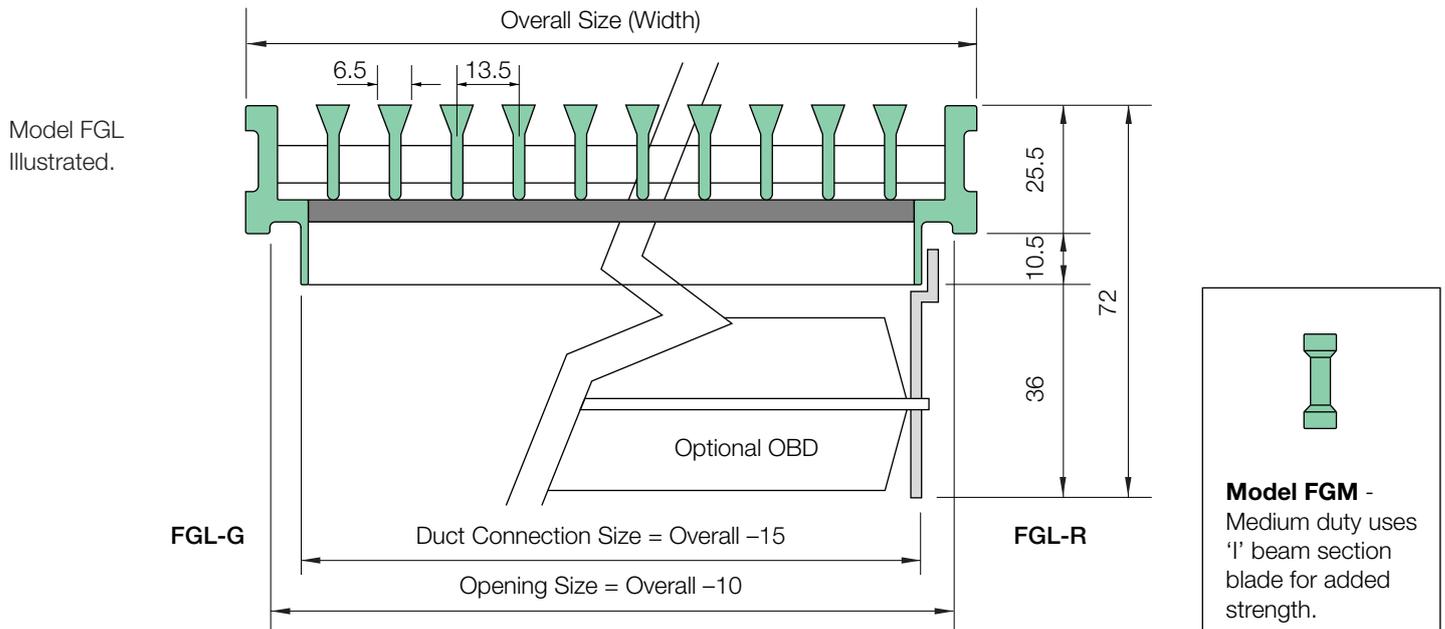
Rear view

**Model FGM-R** is supplied as a Medium Duty grille, complete with an aluminium opposed blade damper, which is adjusted through the grille core.

**Model FGM-G-RC** is supplied as a Medium Duty grille only with a removable core.

**Model FGM-R-RC** is supplied as a Medium Duty grille with a removable core and complete with an aluminium opposed blade damper, which is adjusted through the grille core.

### Dimension, Performance and Ordering Information



**Performance Table (Linear)**

Model Width mm	Volume l/s/m	Duct Velocity m/s	Free Area Velocity m/s	Throw m	Total Pressure Pa	Sound Power NRLW
100	45	0.5	1.1	0.6	3	-
	90	1.0	2.2	1.8	8	22
	135	1.5	3.3	3.0	16	28
150	65	0.5	1.0	0.8	3	-
	130	1.0	2.0	2.4	7	24
	195	1.5	3.0	4.4	15	30
200	90	0.5	1.0	1.1	3	-
	180	1.0	2.0	3.0	7	25
	270	1.5	3.0	5.0	15	32
250	115	0.5	1.0	1.3	3	-
	230	1.0	2.0	3.7	7	25
	287	1.25	2.5	4.8	10	28
300	140	0.5	1.0	1.5	3	-
	280	1.0	2.0	4.5	7	26
	350	1.25	2.5	5.6	10	30

**Note:** All throws are based on 10°C cooling.

#### Ordering Information Example

Model Type	Damper	Core	Fixing	Finish	Size (nom length x overall width)
FGL	R	0	F0	5	1800 x 150mm
<b>FGL</b> - Linear Floor Grille, Light Duty. 6.5mm Recessed Frame	<b>G</b> - No Damper <b>R</b> - With Opposed Blade Damper	<b>0</b> - Standard Fixed Core <b>RC</b> - Removable Core <b>NOTE:</b> It is important to state whether "Lay In" or "Dualok" method is required for removable core.	<b>F0</b> - No Fixing <b>F4</b> - Rear Fixing Strap	<b>5</b> - Brushed Aluminium (Standard) <small>For Special Finishes please refer to our Technical Sales Office</small>	Maximum one piece length 1800mm Minimum overall width 50mm without OBD, 100mm with OBD. Maximum overall width 300mm. (Other sizes to special order)

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

## Model F20 and F25

### Description

Model F20 and F25 Light or Medium duty flanged linear bar floor grille is designed to satisfy light or medium load requirements. Constructed from aluminium extrusions using a 6.5mm blade on a 13.5mm pitch with either a 20mm or 25mm wide flange border having a fixed core as standard or optional removable core. The Models F20L and F25L have a light duty inner blade as standard, whilst the Models F20M and F25M include an 'I' beam inner blade for added strength in medium duty applications. Model F20 & F25 can be used on either supply or extract systems and may be fitted with an optional opposed blade damper.

To make provision for cable entry into the occupied space via the floor void, an integral brush section can be fitted to the Models F20 and F25. The brushes allow the cables to pass through and form a seal around the cable.

The brush sections can be manufactured to dimensions to suit the application. Opposed blade dampers are only fitted to active sections of grille.

### Finish

Standard finish is brushed aluminium. A nylon coating to a standard RAL colour, or as a special option a Shadow Line finish may also be provided, as special options.

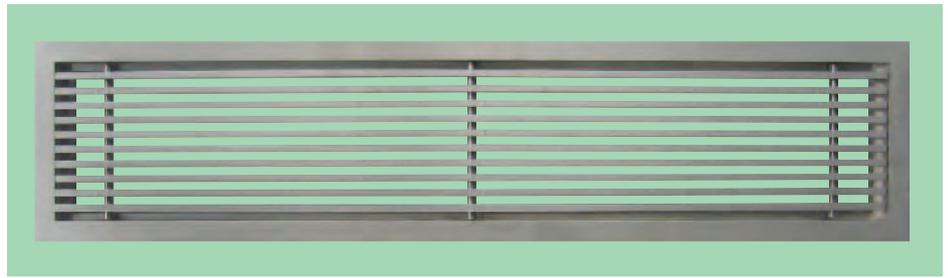
### Dimensions

Supplied as a single section to a maximum nominal length of 1800mm and up to a maximum nominal width of 300mm.

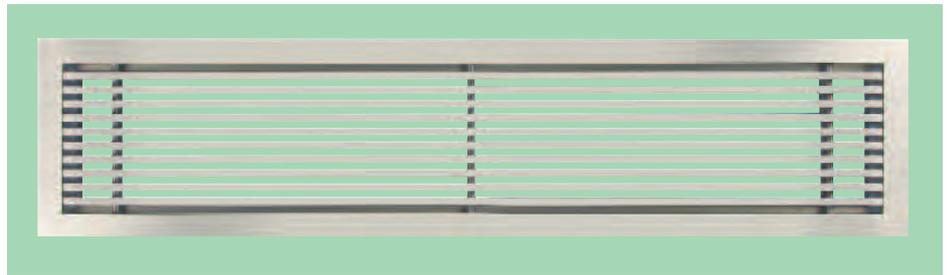
To form a continuous run, individual sections are supplied for bolting together on site, by others.

### Standard Installation Method

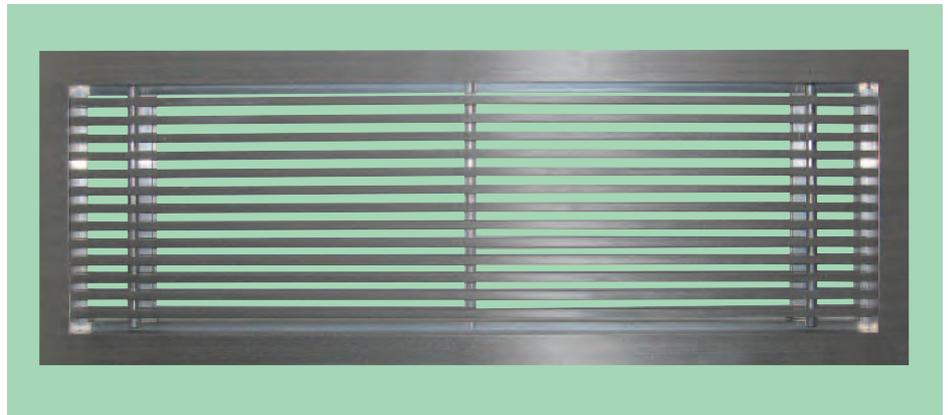
For installation, by others, into prepared openings. If additional fixing details are required please contact our technical sales office.



Model F20L



Model F25L

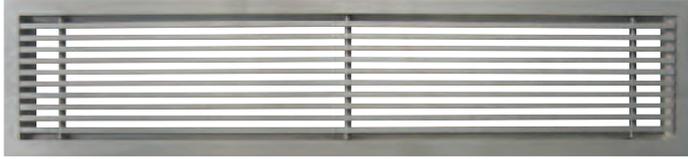


Model F25M

### Models F20 and F25

#### Model Types

**Model F20L-G-O** is supplied as a 20mm Wide Flanged, Fixed Core, Light Duty, grille only.



Front view

**Model F20L-R-O** is supplied as a 20mm Wide Flanged, Fixed Core, Light Duty grille, complete with an aluminium opposed blade damper, which is adjusted through the grille core.

**Model F20L-G-RC** is supplied as a 20mm Wide Flanged, Removable Core, Light Duty, grille only.



Shown with core removed

**Model F20L-R-RC** is supplied as a 20mm Wide Flanged, Removable Core, Light Duty grille, complete with an aluminium opposed blade damper, which is adjusted through the grille core.

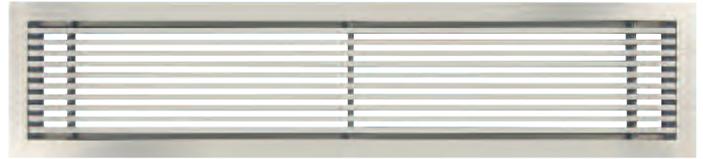
**Model F20M-G-O** is supplied as a 20mm Wide Flanged, Fixed Core, Medium Duty, grille only.

**Model F20M-R-RC** is supplied as a 20mm Wide Flanged, Removable Core, Medium Duty, grille, complete with and aluminium opposed blade damper, which is adjusted through the grille core.

**Model F20M-G-RC** is supplied as a 20mm Wide Flanged, Removable Core, Medium Duty, grille only.

**Model F20M-R-RC** is supplied as a 20mm Wide Flanged, Removable Core, Medium Duty grille, complete with an aluminium opposed blade damper, which is adjusted through the grille core.

**Model F25L-G-O** is supplied as a 25mm Wide Flanged, Fixed Core, Light Duty, grille only.



Front view

**Model F25L-R-O** is supplied as a 25mm Wide Flanged, Fixed Core, Light Duty grille, complete with an aluminium opposed blade damper, which is adjusted through the grille core.

**Model F25L-G-RC** is supplied as a 25mm Wide Flanged, Removable Core, Light Duty, grille only.

**Model F25L-R-RC** is supplied as a 25mm Wide Flanged, Removable Core, Light Duty grille, complete with an aluminium opposed blade damper, which is adjusted through the grille core.

**Model F25M-G-O** is supplied as a 25mm Wide Flanged, Fixed Core, Medium Duty, grille only.

**Model F25M-R-RC** is supplied as a 25mm Wide Flanged, Removable Core, Medium Duty grille, complete with and aluminium opposed blade damper, which is adjusted through the grille core.

**Model F25M-G-RC** is supplied as a 25mm Wide Flanged, Removable Core, Medium Duty, grille only.

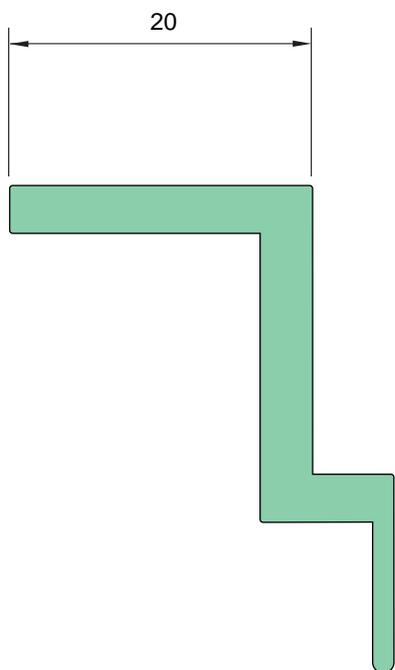


Shown with core removed

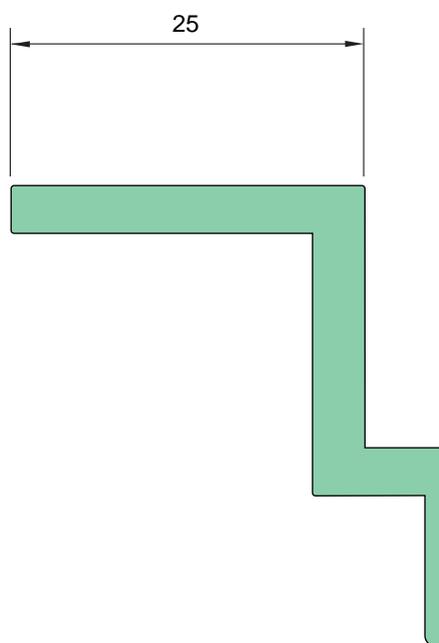
**Model F25M-R-RC** is supplied as a 25mm Wide Flanged, Removable Core, Medium Duty grille, complete with an aluminium opposed blade damper, which is adjusted through the grille core.

# Flange Styles

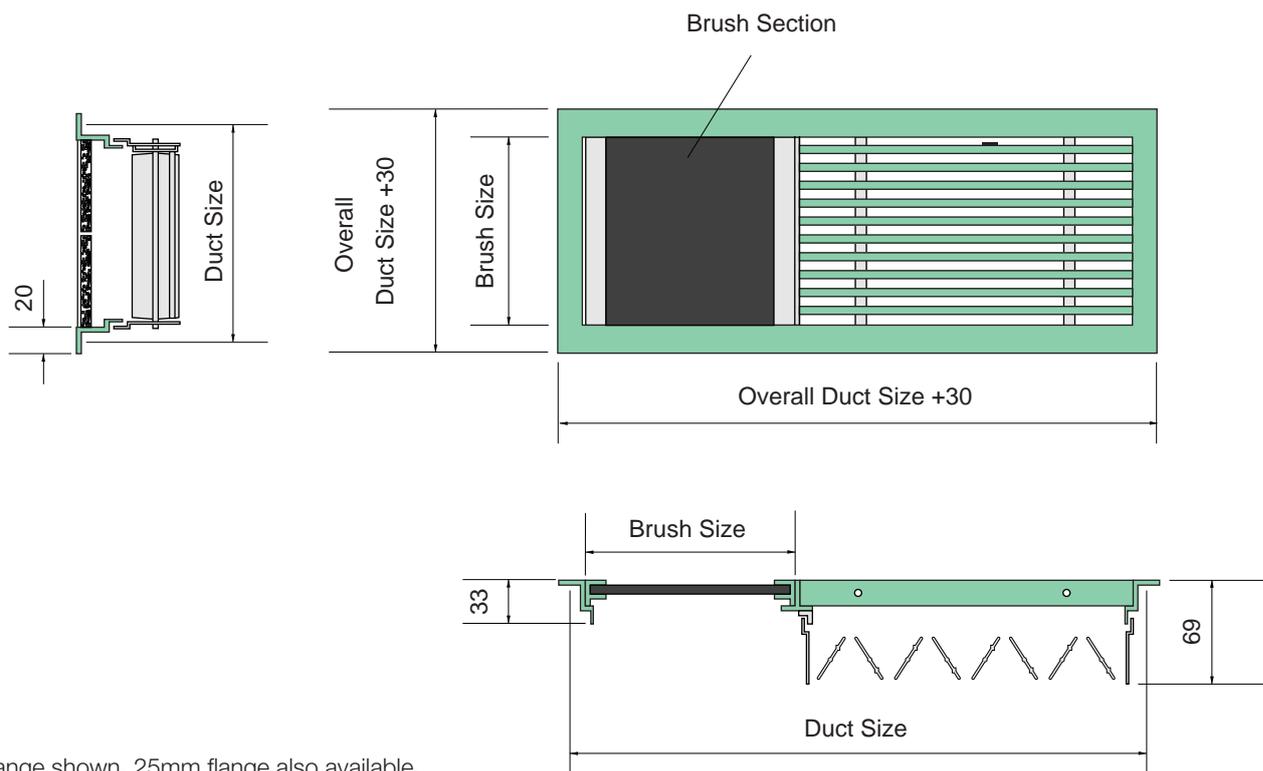
F20 Flange



F25 Flange

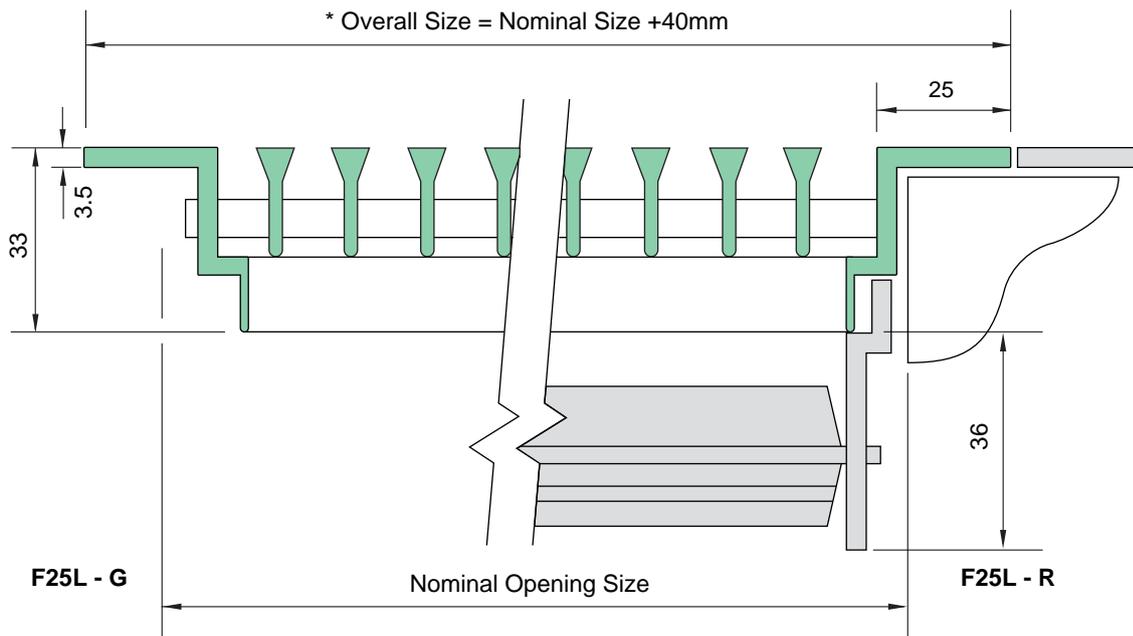
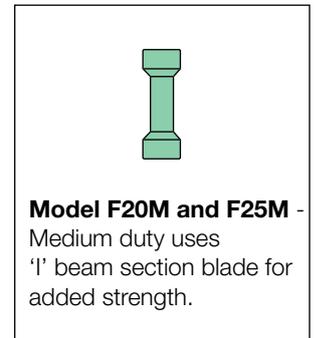
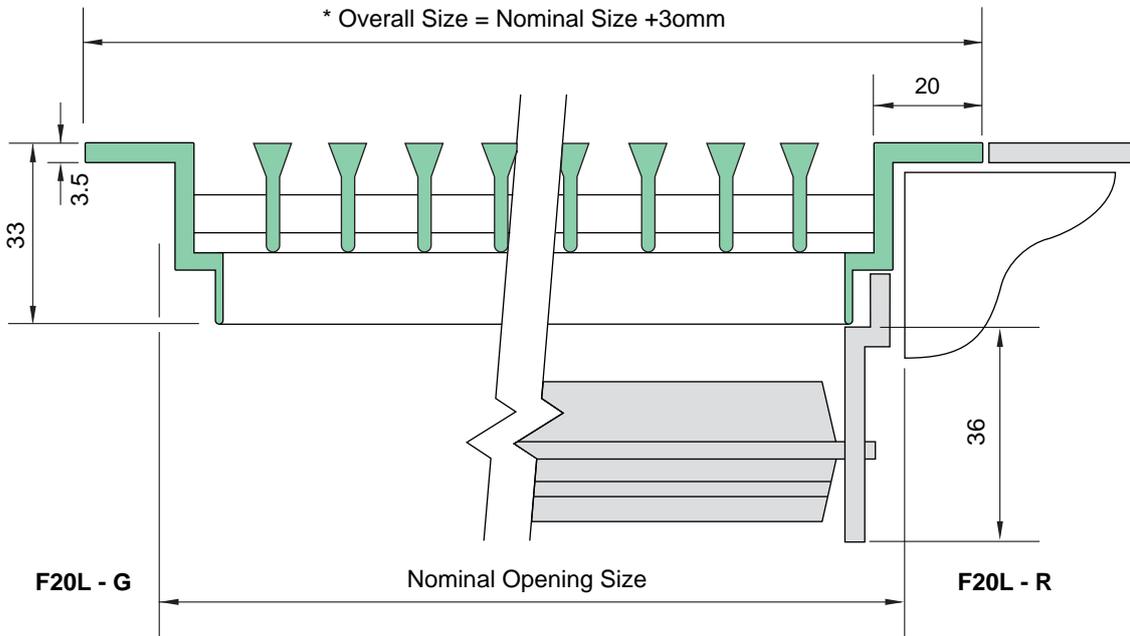


## Floor Grille with Brush Section



20mm flange shown, 25mm flange also available.

### Dimension Information



# Performance

**Performance Table (Linear)**

Model Width mm	Volume l/s/m	Duct Velocity m/s	Free Area Velocity m/s	Throw m	Total Pressure Pa	Sound Power NRLW
100	45	0.5	1.1	0.6	3	-
	90	1.0	2.2	1.8	8	22
	135	1.5	3.3	3.0	16	28
150	65	0.5	1.0	0.8	3	-
	130	1.0	2.0	2.4	7	24
	195	1.5	3.0	4.4	15	30
200	90	0.5	1.0	1.1	3	-
	180	1.0	2.0	3.0	7	25
	270	1.5	3.0	5.0	15	32
250	115	0.5	1.0	1.3	3	-
	230	1.0	2.0	3.7	7	25
	287	1.25	2.5	4.8	10	28
300	140	0.5	1.0	1.5	3	-
	280	1.0	2.0	4.5	7	26
	350	1.25	2.5	5.6	10	30

**Ordering Information Example**

Model Type F25M	Damper G	Core RC	Fixing F0	Finish 5	Size (nom length x nom width) 1500 x 250mm
<b>F20L</b> - Linear Floor Grille, 20mm Flange, Light Duty.	<b>G</b> - No Damper	<b>0</b> - Standard Fixed Core	<b>F0</b> - No Fixing	<b>5</b> - Brushed Aluminium (Standard)	Maximum one piece length 1800mm
<b>F20M</b> - Linear Floor Grille, 20mm Flange Medium Duty.	<b>R</b> - With Opposed Blade Damper	<b>RC</b> - Removable Core	<b>F1</b> - Countersunk Screw Holes in Flange (not available on 20mm Flange)	For Special Finishes please refer to our Technical Sales Office	Minimum nominal width 50mm without OBD, 100mm with OBD.
<b>F25L</b> - Linear Floor Grille, 25mm Flange, Light Duty.		<b>NOTE:</b> It is important to state whether "Lay In" or "Dualok" method is required for removable core.	<b>F4</b> - Rear Fixing Strap		Maximum overall width 300mm.
<b>F25M</b> - Linear Floor Grille, 25mm Flange Medium Duty.					(Other sizes to special order)

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### Model FRO

#### Description

Model FRO Light Duty rollout linear floor grille is designed to satisfy light load requirements in recessed openings where a removable lay in core is required to allow easy access beneath the finished floor level. Constructed from aluminium extrusions using a 6.5mm blade on a 13.5mm pitch mounted on steel springs having black spacers between each blade. Model FRO can be used on either supply or extract systems.

#### Finish

Standard finish is natural anodised aluminium. As a special option, colour anodising may be supplied.

To avoid unsightly scratches or scoring of the grille surface it is not recommended to use colour anodising or paint finishes where the grilles will be subject to regular foot or any other form of traffic.

#### Dimensions

Supplied to suit a nominal length and up to a maximum nominal width of 600mm. To retain rigidity grille widths in excess of 300mm will require additional longitudinal supports, by others, within the structural opening.

To form a continuous appearance, individual sections are supplied loose and butted together on site, by others.

#### Standard Installation Method

For lay in, recessed installation, into prepared openings, by others.

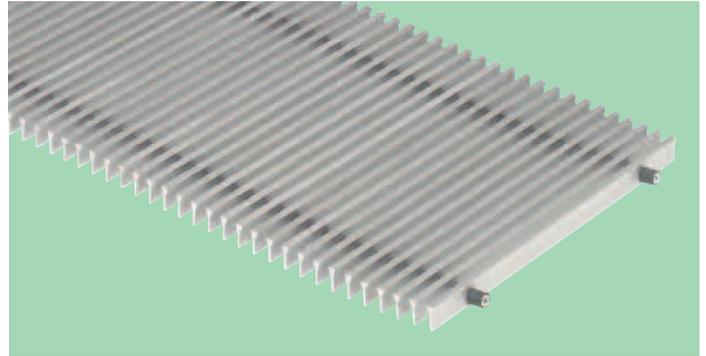
A separate sub frame assembly can be provided for site fixing, by others. Either FG, F20 and F25 frames or a standard angle may be used for this purpose.

#### Model Types

**Model FRO** is supplied as a Flexible Rollout grille core only.

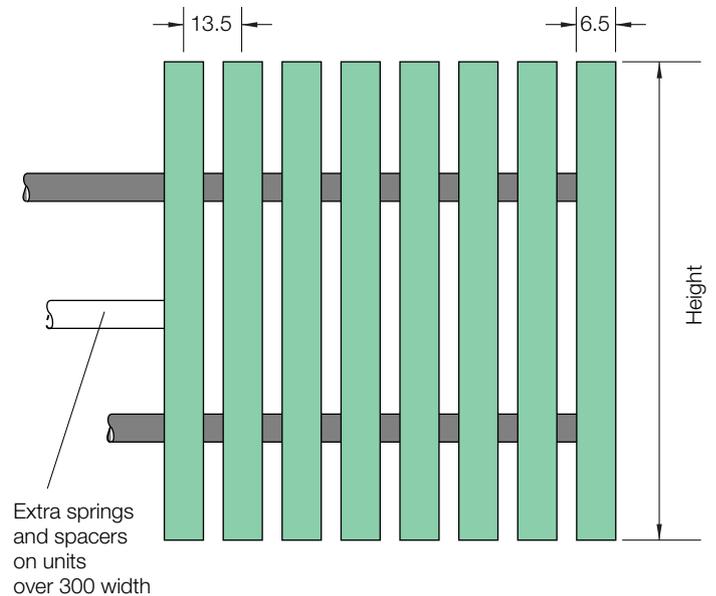
#### Free Area

Approximately 65%.



### Dimensions

Max width 600mm without extra subframe support



#### Ordering Information Example

Model	Fixing	Finish	Frame	Size (nom length x nom width)
FRO	F0	1	O	3000 x 300mm
<p><b>FRO</b> Rollout Core Only</p> <p><b>F0</b> No fixing</p> <p><b>1</b> Natural Anodised Aluminium (Standard) For special finishes please refer to our Sales Office</p> <p><b>O</b> No Frame <b>S</b> Sub Frame (Specify separately type of frame required)</p> <p><b>Depth</b> Grille Core only = 19mm <b>Size</b> Nominal length to suit Minimum nominal width 100mm, maximum nominal width 600mm (Additional support required over 300mm wide)</p>				

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

## Product Range

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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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is available for all Air Diffusion products.  
Visit our website at [www.air-diffusion.co.uk](http://www.air-diffusion.co.uk)**

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## Air Diffusion

Grilles Diffusers Louvres Chilled Beams