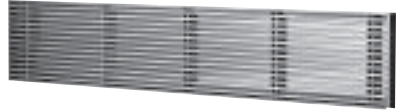


Heavy Duty Linear Bar Floor Grilles

Description

For supply or extract air, this heavy duty floor grille has a sturdy 0 degree deflection blades with rear reinforced mullions. The frame is available flanged or for recessed installation.



Construction

The flanged frame is manufactured from 3.0mm thick extruded aluminium whilst the flangeless frame is 6.0mm thick. The fixed blades are 6.0mm thick for the V79 and 6.0mm thick tapering to 2.5mm for the V78 all at 12.5mm centres.

Size and Weight

Width from 100mm to a maximum of 600mm.
 Lengths can be produced to almost any size.
 Grille with '78' core 18.0 kg/m²
 Grille with '79' core 29.0 kg/m²
 Optional OBD 8.0 kg/m²
 Free Area approximately 46%

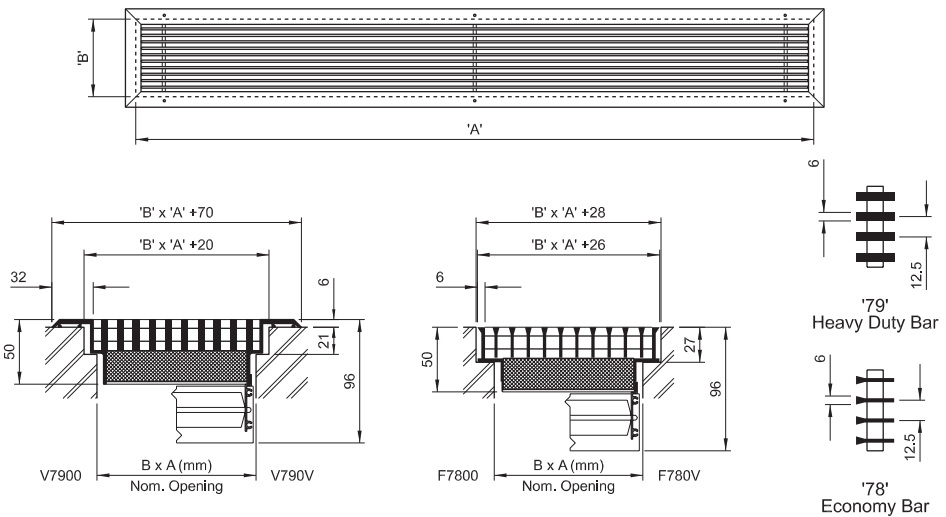
How to Specify

STATE QUANTITY, THE PRODUCT CODING AND THE SIZE
 WIDTH X HEIGHT
 e.g. 10 Qty. V7900+1A 600 x 150

Frame Style	Core	Options	Accessories
V 32mm Flange Heavy Duty	79 0° Bars Heavy Duty	0 Fixed Core	0 None
F Recessed Frame	78 0° Bars Economy	C Removable Core	V Damper

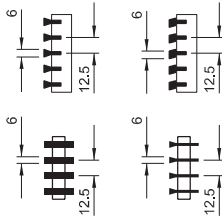


Fixings	Finish
2 Neck Fixings	A Satin Anodised
8 Concealed Rear Bracket	C PPC BS /RAL Colour
1 Flange holes	D Mill Finish

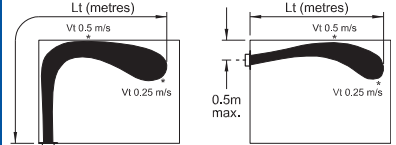


Technical Data Heavy Duty Linear Bar & Floor Grilles

S7200 **V7900**
S7300 **V7800**
S7C00 **F7900**
S7D00 **F7800**
S7800
S7900



qm (l/s) (1000mm)	Nominal Duct H.	Psn (Pa) (Pascals)	Vf (m/s)	Lt (metres)	NC
40	50	3	1.25	1.1 - 2.1	-
50	50	4	1.50	1.7 - 3.1	15
60	50	8	2.00	2.3 - 4.3	15
75	50 75	12 4	2.50 1.40	2.9 - 5.2 2.5 - 4.0	23 -
90	50 75 100	15 5 2	3.00 1.65 1.15	3.3 - 6.0 2.7 - 4.6 2.1 - 3.7	25 18 14
110	50 75 100	20 8 4	3.50 2.00 1.35	4.0 - 6.9 3.2 - 5.6 2.6 - 4.6	27 19 15
125	50 75 100	20 8 4	3.50 2.00 1.35	4.0 - 6.9 3.2 - 5.6 2.6 - 4.6	27 19 15
140	75 100 125	12 6 4	2.50 1.75 1.30	3.6 - 7.1 3.1 - 5.8 2.7 - 4.8	25 20 16
160	75 100 125	14 6 4	2.80 1.90 1.50	4.7 - 8.0 3.6 - 6.6 3.1 - 5.6	28 22 19
190	75 100 125 150	20 10 6 4	3.50 2.40 1.80 1.50	5.5 - 8.6 4.5 - 7.5 3.6 - 6.5 3.4 - 5.7	31 24 21 15
230	75 100 125 150	28 15 9 6	4.20 3.00 2.20 1.80	6.7 - 11.0 5.9 - 9.2 5.4 - 7.8 4.8 - 7.0	35 26 23 17
270	100 125 150 200	20 12 8 4	3.35 2.50 2.00 1.50	6.8 - 10.0 6.3 - 8.8 5.6 - 8.1 4.8 - 7.2	28 25 20 14
310	100 125 150 200	22 15 10 5	3.80 3.00 2.35 1.70	8.2 - 13.0 6.8 - 12.0 6.1 - 10.2 5.3 - 9.1	32 28 24 18
350	125 150 200 250	19 13 6 4	3.30 2.65 1.90 1.50	7.3 - 11.2 6.4 - 10.3 5.7 - 9.1 4.2 - 7.8	32 27 21 18
390	125 150 200 250	22 15 8 5	3.65 2.95 2.10 1.65	7.9 - 11.5 7.5 - 10.8 6.5 - 10.2 5.9 - 9.0	37 29 25 21
430	150 200 250 300	19 10 6 4	3.25 2.35 1.85 1.50	8.0 - 11.2 7.3 - 11.0 6.2 - 9.8 5.7 - 8.6	33 28 25 19
470	150 200 250 300	20 12 8 5	3.50 2.50 2.00 1.65	9.2 - 12.0 8.0 - 11.2 7.1 - 10.3 6.3 - 9.1	38 33 28 21
540	200 250 300	15 10 6	3.00 2.30 1.90	9.5 - 14.5 8.7 - 12.5 7.3 - 11.2	38 32 24



Grille Length (metres)	Multiply throw by the following factor	Adjust NC
0.9 - 1.5	1.00	0
1.6 - 2.5	1.10	+2
2.6 +	1.15	+5

Throw (Lt) and terminal velocity (Vt)

The throw distance given in the tables is based on a floor to ceiling height of 2.7 metres.

Selection Example

1) Size a F79CV+8A (heavy duty blades with recessed frame and damper) mounted in a raised floor adjacent to glazing to supply 0.855 M³/s giving a throw of 8.5 metres and a noise level less than NC 30. Room width is 6 metres.

2) Linear supply products should finish 10 - 20 % short of the room width to avoid excessive turbulence where the floor meets the wall, therefore in this case, an effective length would be 4.5 metres. The data in the tables is per linear metre:

0.855 M³/s / 4.5m (grille length) = 0.19 M³/s per metre.

3) Enter tables at nearest volume i.e. 0.19 and you will find that at 100mm width the corresponding throw is 7.5 metres long. As the grille length is more than 2.6 metres, multiply throw by correction factor 1.15 and add 5Nc (see table above).

7.5M x 1.15 = 8.6 29Nc.