



# Grilles

for walls, floors, & doors

# Series GH

## Single Deflection Grille



### Description

For supply or extract air, having single set of fully adjustable vanes to give directional control of the air pattern in two directions if required. Suitable for wall, duct and ceiling mounting.

### Construction

From extruded aluminium sections, frame 1.2 mm thick, vanes 4.5 mm thick max. Hairline mitres mechanically held. Optional OBD is of extruded aluminium. Standard mill finish and black finish also available on request.

### Size

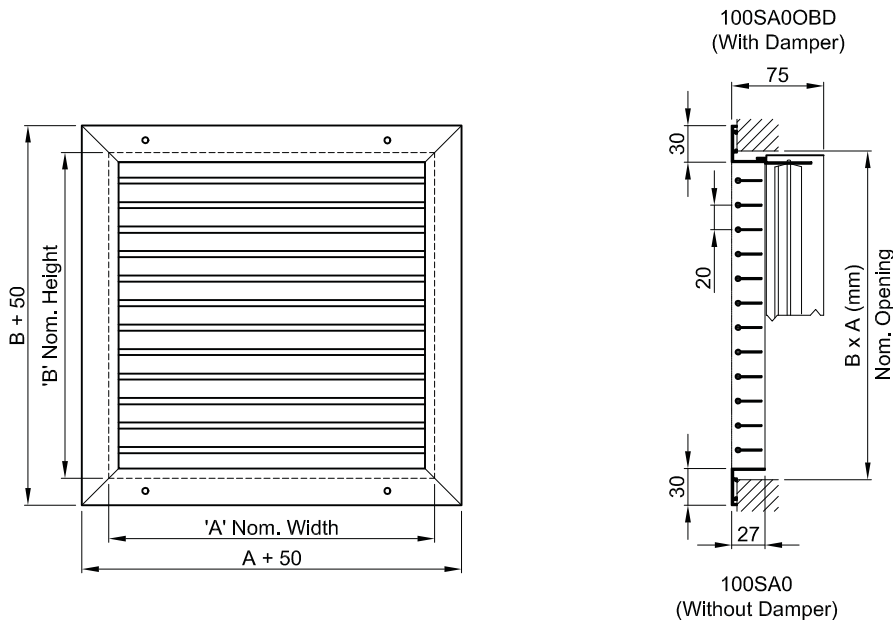
From 100 x 100 to 2000 x 1200 in 25 mm increments. Face mullions are incorporated when width exceeds 500 mm. Free Area approximately 80%. Multiple sections are available as per the size requirement.



### How to Specify

State Quantity, the series, product coding and the size width x height  
e.g 10 Qty. GHSA0OBD+1W 300x300

Series	Frame Style		Core		Options		Accessories		Fixings		Finish		
GH	S	27mm Flange	A	Horizontal Vanes	0	Fixed Core	OBD	Opposed Blade Damper	+	1	Screw Fixing	W	Satin Anodised
			B	Vertical Vanes	H	Hinged Core	EQ	Equalizing Grid		2	Concealed Fixing	X	PPC Ral 9010 Gloss White
			C	Fixed 0° Horizontal Vanes	R	Removable Core						Y	PPC BS / Ral Color
			D	Fixed 0° Vertical Vanes								Z	Mill Finish



# Series GHV

## Double Deflection Grille



### Description

For supply or extract air, having single set of fully adjustable vanes to give directional control of the air pattern in two directions if required. Suitable for wall, duct and ceiling mounting.

### Construction

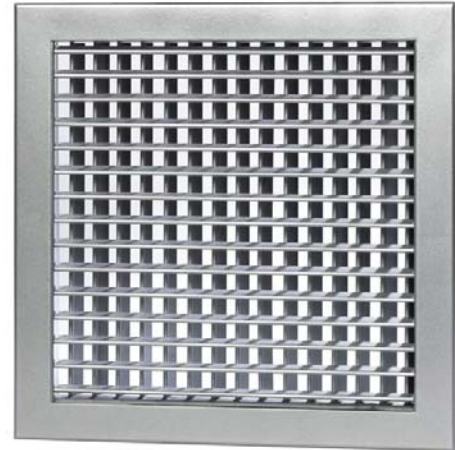
From extruded aluminium sections, frame 1.2 mm thick, vanes 4.5 mm thick max. Hairline mitres mechanically held. Optional OBD is of extruded aluminium. Standard mill finish and black finish also available on request.

### Size

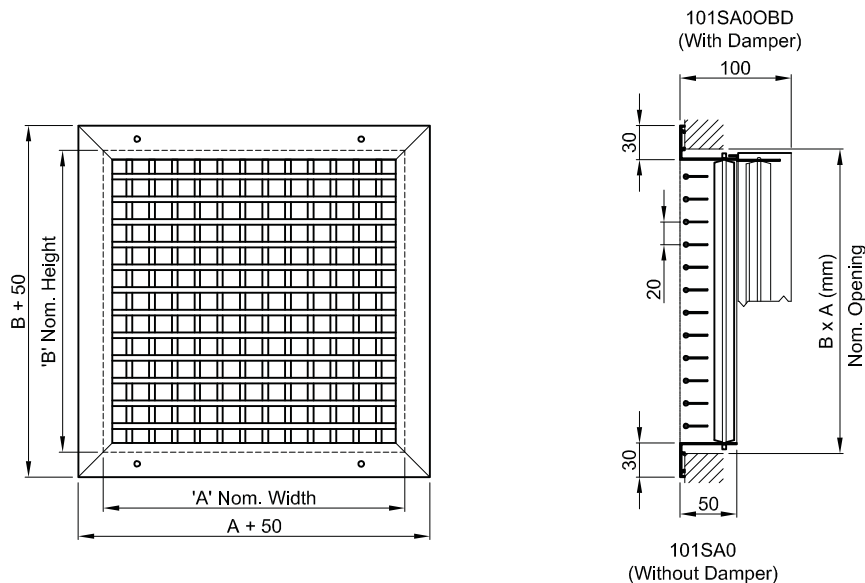
From 100 x 100 to 2000 x 1200 in 25 mm increments. Face mullions are incorporated when width exceeds 500 mm. Free Area approximately 80%. Multiple sections are available as per the size requirement.

### How to Specify

State Quantity, the series, product coding and the size width x height  
e.g 10 Qty. GHVSA0OBD+1W 300x300



Series	Frame Style	Core		Options		Accessories		Fixings		Finish		
		A	B	H	R	OBD	EQ	1	2		W	X
GHV	S	27mm Flange	A	Horizontal Vanes	O	Fixed Core	OBD	Opposed Blade Damper	1	Screw Fixing	W	Satin Anodised
			B	Vertical Vanes	H	Hinged Core	EQ	Equalizing Grid	2	Concealed Fixing	X	PPC Ral 9010 Gloss White
					R	Removable Core					Y	PPC BS / Ral Color
											Z	Mill Finish



# Series GH

## Fixed Blade Supply – Extract Grilles



### Description

For supply or extract air, having single set of fully adjustable vanes to give directional control of the air pattern in two directions if required. Suitable for wall, duct and ceiling mounting.

### Construction

From extruded aluminium sections, frame 1.2 mm thick, vanes 4.5 mm thick max. Hairline mitres mechanically held. Optional OBD is of extruded aluminium. Standard mill finish and black finish also available on request.

### Size

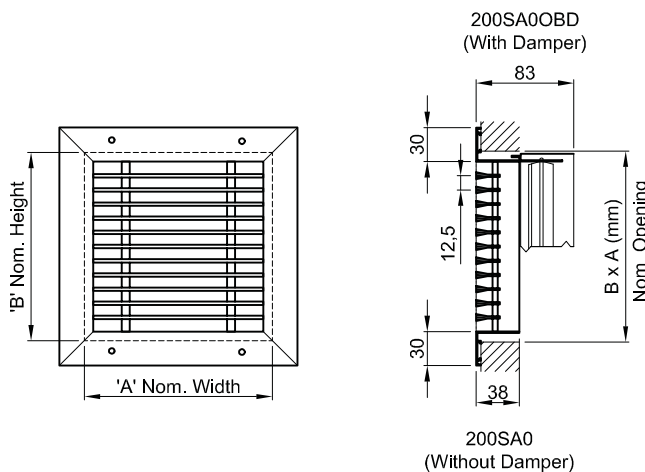
From 100 x 100 to 2000 x 1200 in 25 mm increments. Free Area approximately 77%. Multiple sections are available as per the size requirement.

### How to Specify

State Quantity, the series, product coding and the size width x height e.g 10 Qty. **GHSA0OBD+1W 300x300**



Series	Frame Style	Core		Options		Accessories		Fixings		Finish			
GH	S	27mm Flange	A	0° Vanes	0	Fixed Core	OBD	Opposed Blade Damper	1	Screw Fixing	W	Satin Anodised	
			B	15° Vanes			EQ	Equalizing Grid	+	2	Concealed Fixing	X	PPC Ral 9010 Gloss White
			C	35° Vanes								Y	PPC BS / Ral Color
												Z	Mill Finish

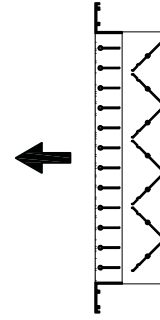


# Technical Data Sidewall Mounted Supply Air Grilles

Series – GH 0° Fixed Blade

Series – GH Single Deflection

Series – GHV Double Deflection



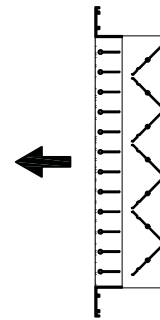
APERTURE A x B (mm)		200 x 100 150 x 150			250 x 125 200 x 150 300 x 100			250 x 150 200 x 200 400 x 100			300 x 150 250 x 200 350 x 125 500 x 100			250 x 250 300 x 200 400 x 150 600 x 100			
q(l/s)	Ac(m <sup>2</sup> )	0.015M <sup>2</sup>			0.024M <sup>2</sup>			0.032M <sup>2</sup>			0.04M <sup>2</sup>			0.051M <sup>2</sup>			
	Da	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	
20	Vk (M/s)	1.77	1.94	2.29	1.1	1.2	1.42										
	Lt	3.7	3.2	2	2.4	2	1.2										
	Ps	2	3	3	-	-	2										
	NC	-	-	-	-	-	-										
30	Vk (M/s)	2.66	2.9	3.43	1.66	1.8	2.14	1.27	1.38	1.63							
	Lt	4.3	4	2.7	3.7	3	1.9	2.6	2.2	1.2							
	Ps	3	4	6	2	2	3	-	-	2							
	NC	-	14	19	-	-	-	-	-	-							
40	Vk (M/s)	3.6	3.87	4.58	2.2	2.41	2.85	1.69	1.84	2.18	1.34	1.45	1.72				
	Lt	6	5.1	3.7	5	4	3	3.7	3	2.1	3	2.6	1.5				
	Ps	6	7	11	3	3	5	2	2	3	2	2	3				
	NC	20	23	26	-	-	15	-	-	-	-	-	-				
55	Vk (M/s)	4.43	4.84	5.72	2.77	3	3.56	2.12	2.3	2.73	1.67	1.82	2.15	1.32	1.44	1.7	
	Lt	7.7	6.8	4.4	5.5	4.9	3.6	4.7	3.4	2.6	4	3	2.2	3	2.2	1.2	
	Ps	8	11	17	4	5	6	3	3	5	-	2	3	-	2	2	
	NC	29	30	35	15	16	20	-	-	15	-	-	-	-	-	-	
65	Vk (M/s)	5.32	5.8	6.87	3.32	3.62	4.28	2.54	2.77	3.27	2	2.19	2.58	1.58	1.72	2.04	
	Lt	9	7.5	5	6.9	5.9	4.3	6	4.8	3.2	5	4	2.8	4	3	2.2	
	Ps	12	16	26	4	5	8	3	5	6	2	2	3	-	-	2	
	NC	34	36	40	19	21	26	14	15	18	-	-	-	-	-	-	
75	Vk (M/s)	6.21	6.77	8	3.87	4.22	5	2.96	3.23	3.82	2.34	2.6	3	1.85	2	2.38	
	Lt	11	9.6	6.6	8.7	7	4.8	7	5.8	3.5	6	4.8	3.3	5	4	2.6	
	Ps	16	21	32	6	8	12	4	5	7	3	3	5	2	3	3	
	NC	38	40	45	26	28	32	17	19	23	-	15	17	-	-	-	
85	Vk (M/s)	7.1	7.78	9.16	4.43	4.82	5.71	3.38	3.69	4.36	2.67	2.92	3.45	2.1	2.3	2.72	
	Lt	13	11	7.7	9.2	8	5.8	7	5.9	4.4	6.2	5	3.4	5.3	4.3	3	
	Ps	21	25	41	8	10	17	5	8	11	3	4	5	2	3	5	
	NC	44	47	51	29	32	36	22	24	29	16	17	23	-	-	16	
95	Vk (M/s)	8	8.7	10.3	5	5.42	6.42	3.8	4.15	4.9	3	3.28	3.86	2.37	2.58	3.06	
	Lt	14	12.5	8	10.6	9	6	8	6.8	5.2	6.8	5.8	3.8	6	5.3	3.4	
	Ps	27	34	50	9	11	18	7	9	13	4	5	8	3	4	5	
	NC	46	48	53	34	36	41	24	27	31	18	20	25	14	15	18	
105	Vk (M/s)	9	9.67	11.44	5.52	6.03	7.13	4.23	4.61	5.45	3.35	3.65	4.31	2.64	2.87	3.4	
	Lt	16	13	9	12	9.7	6.3	9	7	5	8	6.8	4	6.8	5.9	3.7	
	Ps	31	42	66	14	19	27	7	9	15	4	6	9	3	5	6	
	NC	50	54	-	37	40	43	30	32	36	22	24	29	16	18	22	
115	Vk (M/s)				6.08	6.63	7.85	4.65	5.07	6	3.67	4	4.74	2.9	3.15	3.74	
	Lt				12.4	10	6.8	10	9	5.6	8.8	7.7	4.8	7.3	6.4	4	
	Ps				16	18	28	10	15	18	6	8	10	4	5	7	
	NC				40	42	47	32	34	38	24	27	31	18	19	26	
130	Vk (M/s)				6.64	7.23	8.56	5.08	5.53	6.54	4	4.38	5.17	3.16	3.45	4.08	
	Lt				13	11	7	11	9.2	5.8	9	7.7	5.2	7.7	6.5	4.6	
	Ps				21	25	33	11	15	22	6	8	12	5	5	9	
	NC				43	45	49	36	38	43	29	31	36	20	22	29	
140	Vk (M/s)				7.19	7.84	9.27	5.5	6	7.09	4.35	4.74	5.6	3.43	3.78	4.42	
	Lt				14	12	7.7	12	10	6.3	9.6	8.2	5.5	8.4	7.3	4.8	
	Ps				21	26	36	11	15	25	8	10	15	5	7	11	
	NC				45	47	53	38	40	45	32	34	39	24	26	30	
150	Vk (M/s)				7.74	8.44	10	5.92	6.45	7.63	4.68	5.1	6.03	3.69	4	4.75	
	Lt				15	12.8	8.6	13	11	6.9	11	9.5	6.2	9	7.8	5.3	
	Ps				25	31	51	13	16	27	8	10	17	5	7	12	
	NC				47	49	54	42	44	48	34	35	41	26	28	32	
160	Vk (M/s)				8.3	9	10.7	6.39	6.9	8.18	5	5.47	6.47	3.95	4.3	5.1	
	Lt				16	13.8	9	13	10.5	7.6	12	10	6.8	9.5	8.3	5.6	
	Ps				27	37	59	15	21	33	9	13	21	6	8	14	
	NC				50	52	-	43	45	50	36	37	43	28	30	34	

# Technical Data Sidewall Mounted Supply Air Grilles

Series – GH 0° Fixed Blade

Series – GH Single Deflection

Series – GHV Double Deflection



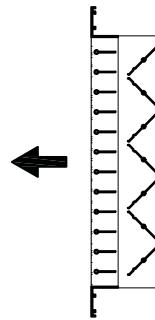
300 x 250 350 x 200 500 x 150 800 x 100			300 x 300 350 x 250 450 x 200 600 x 150			350 x 350 400 x 300 500 x 250 600 x 200 850 x 150 1100 x 150			400 x 400 450 x 350 550 x 300 650 x 250 800 x 200 1100 x 200			450 x 450 500 x 400 600 x 350 650 x 300 800 x 250			APERTURE A x B (mm)	
0.064M <sup>2</sup>			0.077M <sup>2</sup>			0.105M <sup>2</sup>			0.146M <sup>2</sup>			0.18M <sup>2</sup>			Ac(M <sup>2</sup> )	q(l/s)
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	Da	
															Vk(M/s)	20
															Lt	
															Ps	
															NC	
															Vk(M/s)	30
															Lt	
															Ps	
															NC	
															Vk(M/s)	40
															Lt	
															Ps	
															NC	
															Vk(M/s)	55
															Lt	
															Ps	
															NC	
1.25	1.36	1.61													Vk(M/s)	65
3	2.6	1.5													Lt	
-	-	2													Ps	
-	-	-													NC	
1.46	1.59	1.88	1.17	1.31	1.56										Vk(M/s)	75
3.8	2.9	1.8	3.1	2.2	1.3										Lt	
-	-	2	-	-	2										Ps	
-	-	-	-	-	-										NC	
1.66	1.81	2.15	1.38	1.5	1.78										Vk(M/s)	85
4.7	3.9	2.8	4	3.1	2.2										Lt	
-	-	3	-	-	2										Ps	
-	-	-	-	-	-										NC	
1.87	2.05	2.41	1.55	1.7	2	1.14	1.25	1.5							Vk(M/s)	95
5.5	4.7	3.1	4.7	3.8	2.5	3.8	3	2							Lt	
-	2	3	-	-	2	-	-	2							Ps	
-	-	-	-	-	-	-	-	-							NC	
2.08	2.27	2.65	1.72	1.88	2.23	1.27	1.38	1.63							Vk(M/s)	105
6.1	5.5	3.4	5	4	3	3.8	3.4	2.2							Lt	
2	3	4	-	2	3	-	-	2							Ps	
-	-	16	-	-	-	-	-	-							NC	
2.29	2.5	3	1.9	2.07	2.45	1.4	1.52	1.8	1	1.09	1.3				Vk(M/s)	115
6.7	5.8	3.9	5.5	4.6	3.4	4.1	3.2	2.2	3.1	2.6	1.7				Lt	
3	4	5	2	3	4	-	2	3	-	-	2				Ps	
-	16	19	-	-	-	-	-	-	-	-	-				NC	
2.5	2.72	3.22	2.07	2.25	2.67	1.52	1.66	1.96	1.1	1.2	1.42				Vk(M/s)	130
7.4	5.7	4	6	5	3.5	4.6	4	3	3.4	3	2				Lt	
3	4	5	2	3	4	-	2	3	-	-	2				Ps	
17	18	22	-	-	17	-	-	-	-	-	-				NC	
2.71	2.95	3.5	2.25	2.45	2.9	1.65	1.8	2.12	1.19	1.3	1.53				Vk(M/s)	140
7.5	5.8	4.1	6.5	5.6	3.5	5.1	4.33	3.2	3.8	3.1	2				Lt	
4	5	6	3	3	4	-	2	3	-	-	2				Ps	
18	19	24	-	16	19	-	-	-	-	-	-				NC	
2.92	3.18	3.76	2.41	2.64	3.12	1.77	1.94	2.29	1.28	1.4	1.65	1.04	1.13	1.34	Vk(M/s)	150
7.7	6.3	4.5	6.8	5.8	4	5.6	5	3.2	4	3.5	2.3	3.1	2.6	1.7	Lt	
4	5	7	3	4	5	-	3	4	-	-	2	-	-	2	Ps	
20	21	26	16	17	22	-	-	15	-	-	-	-	-	-	NC	
3.12	3.4	4.03	2.59	2.32	3.34	1.9	2.07	2.38	1.37	1.5	1.77	1.11	1.21	1.43	Vk(M/s)	160
8.1	6.9	4.7	7.4	6.2	4.5	6	5.2	3.5	4.4	3.5	2.6	3.5	3	2	Lt	
5	6	9	4	5	6	2	3	4	-	-	2	-	-	2	Ps	
21	23	27	17	19	23	-	-	16	-	-	-	-	-	-	NC	

# Technical Data Sidewall Mounted Supply Air Grilles

Series – GH 0° Fixed Blade

Series – GH Single Deflection

Series – GHV Double Deflection



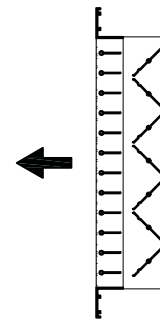
APERTURE A x B (mm)	200 x 200 250 x 150 400 x 100			250 x 200 300 x 150 500 x 100			250 x 250 300 x 200 400 x 150 600 x 100			300 x 250 350 x 200 500 x 150 800 x 100			300 x 300 350 x 250 450 x 200 600 x 150			
	q(l/s)	0.032M <sup>2</sup>			0.04M <sup>2</sup>			0.051M <sup>2</sup>			0.064M <sup>2</sup>			0.077M <sup>2</sup>		
	Ac(m <sup>2</sup> )	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°
175	Vk (M/s)	6.74	7.37	8.73	5.35	5.83	6.9	4.41	4.59	5.43	3.34	3.63	4.3	2.76	3	3.56
	Lt	14	12	8	11	9.7	6.5	9.2	8	5.3	9	7.6	4.7	7.6	6.8	3.7
	Ps	19	25	38	10	13	24	8	9	15	4	6	9	3	5	7
	NC	45	47	53	38	40	44	31	33	37	23	25	30	19	20	25
200	Vk (M/s)	7.61	8.3	9.82	6	6.56	7.76	4.74	5.16	6.11	3.75	4	4.83	3.1	3.39	4
	Lt	15	13	8.8	13	12	7.5	12.7	10	6.5	10	8.5	5.6	8.7	7	4.6
	Ps	25	32	50	12	17	28	10	13	20	6	7	12	4	5	8
	NC	48	51	-	42	44	48	36	38	43	27	29	34	22	24	29
220	Vk (M/s)	8.45	9.22	10.9	6.69	7.29	8.62	5.27	5.74	6.79	4.16	4.54	5.39	3.45	3.76	4.45
	Lt	17	15	9	14.5	12.6	7.5	12.6	11	6.8	11	9	6	10	8	5.2
	Ps	30	37	58	14	20	30	10	13	23	7	9	15	5	6	9
	NC	53	55	-	46	48	53	38	40	46	31	33	36	26	28	33
240	Vk (M/s)	9.3	10.14	12	7.35	8	9.46	5.79	6.32	7.47	4.58	5	5.92	3.79	4.14	4.9
	Lt	17.8	15.7	10	15.2	13	8.6	13	11	7	11.9	10	6.5	10.5	9	6.2
	Ps	35	40	63	16	23	38	10	15	28	7	9	17	5	7	11
	NC	56	-	-	49	51	55	41	43	48	35	37	41	29	31	37
260	Vk (M/s)				8	8.75	10.35	6.3	6.89	8.15	5	5.45	6.45	4.14	4.52	5.34
	Lt				17	15	9.5	15	13	8	12.8	11	7.4	11.3	10	6.5
	Ps				20	28	50	13	17	31	8	10	19	5	8	13
	NC				52	54	-	45	47	51	37	38	43	32	34	39
280	Vk (M/s)				8.7	9.48	11.21	6.85	7.46	8.82	5.41	5.9	7	4.5	5	5.78
	Lt				19	17	11	16	14.5	9	14	12.3	7.8	12	10.3	6.8
	Ps				25	33	57	14	20	37	9	13	23	6	9	14
	NC				54	55	-	47	49	54	39	41	47	35	37	42
300	Vk (M/s)				9.36	10.2	12	7.37	8	9.5	5.84	6.36	7.52	4.88	5.26	6.23
	Lt				19.5	17.5	11.6	17	15	9	15	13	8.6	13	11	7.2
	Ps				35	40	63	18	23	39	10	15	30	8	10	18
	NC				55	-	-	50	52	-	43	45	50	38	40	45
320	Vk (M/s)							7.9	8.61	10.19	6.25	6.81	8.06	5.17	5.65	6.7
	Lt							17.7	15.8	10	15.7	13.6	8.3	14	12	7.7
	Ps							20	28	50	13	17	32	8	12	20
	NC							52	54	-	45	47	52	39	41	46
340	Vk (M/s)							8.42	9.2	10.86	6.62	7.26	8.6	5.52	6.02	7.12
	Lt							18.5	16.6	10.2	17	15	9.2	15.5	13.2	8
	Ps							23	32	58	13	20	36	9	15	23
	NC							53	55	-	48	50	55	43	45	50
360	Vk (M/s)										7.08	7.72	9.14	5.86	6.4	7.56
	Lt										18	16	10	16	14	8.8
	Ps										15	20	38	10	15	30
	NC										50	52	-	45	47	52
390	Vk (M/s)										7.5	8.17	9.67	6.21	6.77	8
	Lt										19	17	10.5	17	14.6	9
	Ps										25	32	50	13	17	32
	NC										52	54	-	46	48	54
420	Vk (M/s)													6.9	7.5	8.9
	Lt													19.5	16	10.2
	Ps													15	20	38
	NC													51	53	-
460	Vk (M/s)													7.6	8.28	9.8
	Lt													20	17	11
	Ps													25	33	53
	NC													53	55	-
500	Vk (M/s)															
	Lt															
	Ps															
	NC															

# Technical Data Sidewall Mounted Supply Air Grilles

Series – GH 0° Fixed Blade

Series – GH Single Deflection

Series – GHV Double Deflection



350 x 350			400 x 400			450 x 450			500 x 500			600 x 600			APERTURE A x B (mm)	
400 x 300			450 x 350			500 x 400			600 x 450			700 x 500				
500 x 250			550 x 300			600 x 350			650 x 400			750 x 450				
600 x 200			650 x 250			650 x 300			750 x 350			900 x 400				
850 x 150			800 x 200			800 x 250			900 x 300			1200 x 300				
			1200 x 150			1000 x 200			1100 x 250			1500 x 250				
0.105M <sup>2</sup>			0.146M <sup>2</sup>			0.18M <sup>2</sup>			0.241M <sup>2</sup>			0.331M <sup>2</sup>			Ac(M <sup>2</sup> )	
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	Da	q(l/s)
2.03	2.22	2.62	1.46	1.6	1.89											Vk(M/s)
6.2	4.9	3.7	5.1	4	3.1											Lt
2	3	4	-	2	3											Ps
15	16	18	-	-	-											NC
2.28	2.5	2.95	1.65	1.8	2.12	1.33	1.45	1.72								Vk(M/s)
7.4	6.2	4.6	5.9	4.8	3.4	4.3	3.4	2.5								Lt
3	4	5	-	2	3	-	-	2								Ps
17	19	22	-	-	15	-	-	-								NC
2.54	2.76	2.27	1.83	2	2.36	1.48	1.62	1.91								Vk(M/s)
8	6.8	4.7	6.5	5.2	3.7	5	3.7	2.5								Lt
3	4	5	-	2	3	-	-	2								Ps
19	20	25	-	-	19	-	-	-								NC
2.79	3.04	3.6	2	2.2	2.6	1.63	1.78	2.1	1.22	1.33	1.57					Vk(M/s)
8.7	7.6	5	7.2	5.8	4	5.5	4.3	3	5	3.4	2.7					Lt
3	4	5	-	3	4	-	-	2	-	-	2					Ps
20	22	26	-	15	19	-	-	-	-	-	-					NC
3.04	3.32	3.92	2.2	2.4	2.85	1.8	1.95	2.3	1.33	1.45	1.71					Vk(M/s)
9.5	8	5.2	7.8	6.4	4.6	6.5	5.3	3	5.8	4	3					Lt
4	5	8	2	3	5	-	2	3	-	-	2					Ps
23	25	29	-	15	21	-	-	18	-	-	-					NC
3.3	3.6	4.25	2.38	2.6	3.07	1.92	2.1	2.5	1.44	1.56	1.86					Vk(M/s)
10	8.6	5.8	8.6	7.3	4.8	7.3	5.8	3.9	6.6	4.7	3.2					Lt
4	5	9	3	4	5	-	3	4	-	2	3					Ps
25	27	32	19	20	24	-	15	20	-	-	-					NC
3.56	3.4	4.58	2.56	2.8	3.3	2.07	2.26	2.67	1.55	1.69	2	1.12	1.33	1.46		Vk(M/s)
11	9	5.8	9	7.4	5	8	6.3	4	6.7	5.5	4	4.9	3.8	2.5		Lt
5	6	10	3	4	6	3	4	5	2	2	4	-	-	2		Ps
27	29	34	20	21	26	-	16	21	-	-	-	-	-	-		NC
3.8	4.15	4.91	2.75	3	3.55	2.22	2.43	2.88	1.66	1.81	2.14	1.21	1.32	1.56		Vk(M/s)
12	10.6	6.8	10	8	5.4	8.6	6.9	4.8	6.8	5.7	4	5	4	2.5		Lt
5	6	12	4	4	6	2	3	4	-	2	3	-	-	2		Ps
30	32	36	22	24	28	18	19	24	-	-	16	-	-	-		NC
4.06	4.42	5.23	2.93	3.2	3.78	2.38	2.59	3.06	1.77	1.93	2.28	1.29	1.4	1.66		Vk(M/s)
13	11	7	11	8.3	5.5	9	7.5	5	7.4	6	4.3	5.5	4	3		Lt
6	8	13	5	6	7	3	4	6	2	3	4	-	2	3		Ps
33	34	39	24	25	30	20	21	25	-	15	20	-	-	-		NC
4.31	4.7	5.56	3.12	3.4	4	2.5	2.75	3.25	1.88	2.05	2.42	1.37	1.5	1.76		Vk(M/s)
13.6	11.3	7.2	11.3	9	6.3	10	8	5.4	7.8	6.8	4.6	6	4.7	3		Lt
6	8	14	4	6	8	3	4	7	2	3	4	-	2	3		Ps
35	37	42	24	26	31	21	23	27	-	16	21	-	-	14		NC
4.57	4.98	5.89	3.3	3.6	4.25	2.67	2.9	3.44	2	2.18	2.58	1.45	1.58	1.87		Vk(M/s)
14	12.5	8.2	12.8	10	6.7	11	8.7	5.9	8.3	6.8	5	6.7	5	3.2		Lt
7	9	16	5	6	9	3	4	7	3	4	5	2	3	3		Ps
38	40	45	27	29	33	22	24	29	16	17	22	-	-	15		NC
5.08	5.53	6.54	3.66	3.99	4.72	2.96	3.23	3.82	2.21	2.41	2.85	1.61	1.75	2.08		Vk(M/s)
15	13	8.8	13	10.6	7	11	8.7	5.8	9	7	5	7	5.7	4		Lt
8	11	19	6	7	10	4	6	8	3	4	4	2	3	4		Ps
41	43	48	30	32	37	25	27	32	18	20	24	-	-	16		NC
5.58	6.09	7.2	4.03	4.4	5.2	3.26	3.55	4.2	2.31	2.51	3	1.73	1.93	2.28		Vk(M/s)
16.5	13	8.7	14	10.8	7.7	12	10	6.7	10	8	5.8	7.5	6	4.4		Lt
9	15	25	6	8	13	5	6	9	3	4	5	2	3	4		Ps
44	46	51	34	36	41	28	30	34	21	23	27	15	16	21		NC
6.09	6.64	7.84	4.4	4.8	5.65	3.56	3.88	4.58	2.65	2.9	3.42	1.94	2.1	2.5		Vk(M/s)
18	15	10	16	13	8	14	11	7	11	8.5	6	9	7	5		Lt
14	16	30	7	8	14	5	7	10	3	5	7	3	4	4		Ps
47	49	55	38	40	44	30	32	36	24	26	30	17	18	23		NC

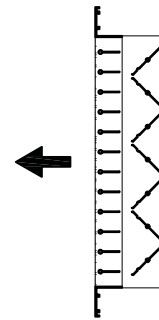


# Technical Data Sidewall Mounted Supply Air Grilles

Series – GH 0° Fixed Blade

Series – GH Single Deflection

Series – GHV Double Deflection



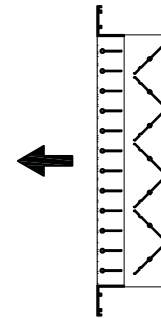
APERTURE A x B (mm)	300 x 300			350 x 350			400 x 400			450 x 450			500 x 500			
	350 x 250			400 x 300			450 x 350			500 x 400			600 x 450			
		450 x 200			500 x 250			550 x 300			600 x 350			650 x 400		
		600 x 150			600 x 200			650 x 250			650 x 300			750 x 350		
					850 x 150			800 x 200			800 x 250			900 x 300		
								1200 x 150			1000 x 200			1100 x 250		
q(l/s)	Ac(m <sup>2</sup> )	0.077M <sup>2</sup>			0.105M <sup>2</sup>			0.146M <sup>2</sup>			0.18M <sup>2</sup>			0.241M <sup>2</sup>		
	Da	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°
550	Vk (M/s)	9	10	11.57	6.6	7.19	8.51	4.76	5.19	6.14	3.85	4.2	5	2.87	3.14	3.7
	Lt	23	20	13	19	16	10	16	13.3	9.2	13.3	11	7.3	11	9	6.3
	Ps	25	37	63	13	18	31	9	11	18	5	7	13	3	4	5
	NC	-	-	-	48	50	55	40	42	47	32	33	39	25	26	32
600	Vk (M/s)				7.1	7.75	9.16	5.12	5.6	6.61	4.15	4.53	5.35	3.1	3.38	4
	Lt				20.3	17.5	11	17.5	14	10	14	12	8	12.3	10.5	6.8
	Ps				15	20	36	9	13	20	6	8	14	3	5	6
	NC				51	53	-	41	42	48	35	36	42	27	28	34
650	Vk (M/s)				7.61	8.3	9.82	5.5	6	7.08	4.45	4.85	5.74	3.32	3.62	4.28
	Lt				21.5	18.5	11.5	18.5	15.1	10	15.4	13	8.7	13	10.5	7
	Ps				18	23	40	9	14	22	7	9	17	4	5	8
	NC				52	54	-	45	47	52	38	40	46	29	30	36
700	Vk (M/s)				8.38	9.12	10.8	6.04	6.59	7.8	4.9	5.33	6.3	3.65	4	4.7
	Lt				23.5	20	13	20	16.5	11	16.5	14	9	14	11	8
	Ps				20	29	50	10	15	25	8	11	19	4	7	10
	NC				-	-	-	47	48	54	41	42	48	31	33	38
800	Vk (M/s)							6.75	7.4	8.75	5.5	6	7.07	4.09	4.45	5.28
	Lt							22	18.8	12	19	15.7	10	15.7	13	8.6
	Ps							13	18	32	9	13	23	5	8	15
	NC							49	51	56	44	45	51	35	36	42
900	Vk (M/s)							7.33	8	9.45	6	6.46	7.65	4.43	4.82	5.7
	Lt							23	20	13	20	17	10.6	17	14	9
	Ps							15	23	38	11	15	27	6	9	22
	NC							52	54	-	47	49	54	40	41	46
1000	Vk (M/s)										6.82	7.43	8.78	5.08	5.54	6.56
	Lt										23	19	12	20	16	11
	Ps										15	20	36	10	15	38
	NC										51	53	-	44	46	50
1100	Vk (M/s)													5.75	6.26	7.41
	Lt													23	18	11.7
	Ps													15	25	45
	NC													47	49	54
1300	Vk (M/s)													6.63	7.23	8.55
	Lt													26	20	13
	Ps													20	33	50
	NC													54	-	-
1500	Vk (M/s)															
	Lt															
	Ps															
	NC															
1700	Vk (M/s)															
	Lt															
	Ps															
	NC															
2000	Vk (M/s)															
	Lt															
	Ps															
	NC															
2400	Vk (M/s)															
	Lt															
	Ps															
	NC															
2800	Vk (M/s)															
	Lt															
	Ps															
	NC															

# Technical Data Sidewall Mounted Supply Air Grilles

Series – GH 0° Fixed Blade

Series – GH Single Deflection

Series – GHV Double Deflection



600 x 600			750 x 600			750 x 750			900 x 750			1000 x 750			APERTURE A x B (mm)
700 x 500			900 x 500			950 x 600			1050 x 600			1200 x 600			
750 x 450			1000 x 450			1200 x 500			1350 x 500			1500 x 500			
900 x 400			1150 x 400			1300 x 450			1500 x 450			1800 x 400			
950 x 350			1500 x 300			1500 x 400			1700 x 400						
1200 x 300															
0.331M <sup>2</sup>			0.422M <sup>2</sup>			0.54M <sup>2</sup>			0.64M <sup>2</sup>			0.69M <sup>2</sup>			Ac(M <sup>2</sup> )
0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	0°	22°	45°	Da
2.2	2.28	2.7	1.65	1.8	2.12	1.3	1.4	1.65							Vk(M/s)
10	8	5.7	7.8	6	4.3	5.6	4.3	3							Lt
2	3	5	2	2	4	2	2	3							Ps
18	19	24	-	15	20	-	-	-							NC
2.25	2.46	2.91	1.77	1.93	2.28	1.39	1.51	1.79	1.17	1.28	1.5				Vk(M/s)
11	8.6	6	8.7	6.8	4.6	6.8	5	3.3	5.3	4	2.5				Lt
3	4	5	3	3	4	3	3	4	2	2	3				Ps
20	21	27	-	15	20	-	-	16	-	-	-				NC
2.41	2.64	3.12	1.9	2.06	2.45	1.5	1.62	1.91	1.25	1.37	1.62				Vk(M/s)
12	9	6.7	9.5	7.3	5.3	7.3	5.3	3.8	6	4	2.5				Lt
4	5	7	3	4	5	3	4	5	3	3	4				Ps
22	23	28	16	17	23	-	-	17	-	-	-				NC
2.66	2.9	3.42	2.08	2.28	2.69	1.65	1.78	2.1	1.38	1.5	1.99				Vk(M/s)
12.4	9.7	7	10.3	8	5.7	8.3	6	4.4	6.5	4.3	3				Lt
4	5	9	3	5	6	3	4	5	3	3	5				Ps
24	25	31	18	19	25	-	-	18	-	-	-				NC
2.98	3.25	3.84	2.34	2.55	3.02	1.83	2	2.35	1.54	1.68	2				Vk(M/s)
13.5	11	7	11.3	9.2	6.2	9	6.8	5	7	5	3.5				Lt
4	6	12	4	6	9	3	4	6	3	4	5				Ps
27	28	34	21	22	28	15	17	22	-	-	16				NC
3.23	3.51	4.15	2.52	2.75	3.26	2	2.15	2.55	1.67	1.82	2.15				Vk(M/s)
15	12	8	12.5	10	6.8	10	8	5.7	7.7	5.6	4				Lt
5	7	13	5	7	12	4	5	10	3	4	8				Ps
30	31	36	24	25	30	18	19	25	-	15	19				NC
3.7	4.04	4.78	2.9	3.17	3.75	2.28	2.5	2.93	1.92	2.09	2.48	1.79	1.9	2.31	Vk(M/s)
16	13	8.6	14	11	7.6	12	9	6.7	9	6.9	4.8	8	6	4.3	Lt
6	7	20	5	8	16	5	6	12	4	5	10	2	4	8	Ps
34	35	41	27	28	34	20	21	27	17	18	24	-	16	21	NC
4.19	4.56	5.4	3.28	3.58	4.24	2.57	2.8	3.31	2.17	2.36	2.8	2.02	2.2	2.61	Vk(M/s)
18	15	9.3	15.5	12.3	8.3	13	10.4	7	11	8.5	5.6	9	7.6	5	Lt
11	15	25	7	12	20	6	8	15	5	8	15	4	6	10	Ps
37	38	44	31	32	38	25	26	31	20	21	27	19	20	26	NC
4.83	5.27	6.23	3.79	4.13	4.89	2.92	3.23	3.82	2.5	2.73	3.23	2.33	2.54	3	Vk(M/s)
22	17	11	18	15	9.5	15	12	8.2	12.3	10	7.2	9.3	8	6.2	Lt
15	25	38	10	15	28	7	10	19	6	9	16	4	8	13	Ps
46	48	53	37	38	45	30	31	38	27	28	33	24	25	30	NC
5.63	6.15	7.28	4.43	4.82	5.7	3.46	3.74	4.46	2.92	3.19	3.76	2.72	2.97	3.5	Vk(M/s)
27	21	14	22	17	11	18	14	10.3	15	11	8.6	12	9	7.5	Lt
16	30	43	13	18	32	9	15	28	8	13	24	5	10	18	Ps
51	52	-	42	44	49	35	36	43	30	31	37	27	28	34	NC
6.45	7	8.3	5.05	5.51	6.52	3.95	4.31	5.1	3.34	3.68	4.3	3.11	3.39	4	Vk(M/s)
34	28	18	29	24	15	24	21	13	21	16	12	18	13	9	Lt
19	33	50	15	25	38	11	18	32	10	14	28	7	12	25	Ps
54	56	-	48	49	55	41	42	48	35	36	42	30	31	37	NC
			6	6.54	7.74	4.7	5.12	6.05	4	4.32	5.11	3.7	4.03	4.77	Vk(M/s)
			37	29	18	33	27	17	28	22	14	23	19	12	Lt
			19	30	40	15	23	24	13	18	30	9	14	27	Ps
			-	-	-	48	50	55	43	44	50	38	39	44	NC
			7	7.5	9	5.5	6	7	4.6	5	6	4.3	4.7	5.5	Vk(M/s)
			40	31	23	35	29	19	32	25	16	26	21	14	Lt
			25	37	55	19	28	40	16	24	37	13	17	29	Ps
			-	-	-	-	-	-	52	-	-	48	50	55	NC
			8.2	9	10.6	6.4	7	8.3	5.4	5.9	7	5	5.5	6.5	Vk(M/s)
			45	37	23	38	32	22	33	28	19	29	24	16	Lt
			30	48	65	25	34	48	20	25	40	16	21	34	Ps
			-	-	-	-	-	-	-	-	-	-	-	-	NC

# Series - 300

## 45° Fixed Blade Grille



### Description

Suitable for extract air applications mounted in wall, duct or ceiling. Fixed horizontal vanes 45° provide an element of screening of the duct and damper behind.

### Construction

From extruded aluminium sections, frame 1.2 mm thick, vanes 1.5 mm thick on 20 mm centres. Hairline mitres mechanically held. Optional OBD is of extruded aluminium. Standard mill finish and black finish also available on request.

### Size

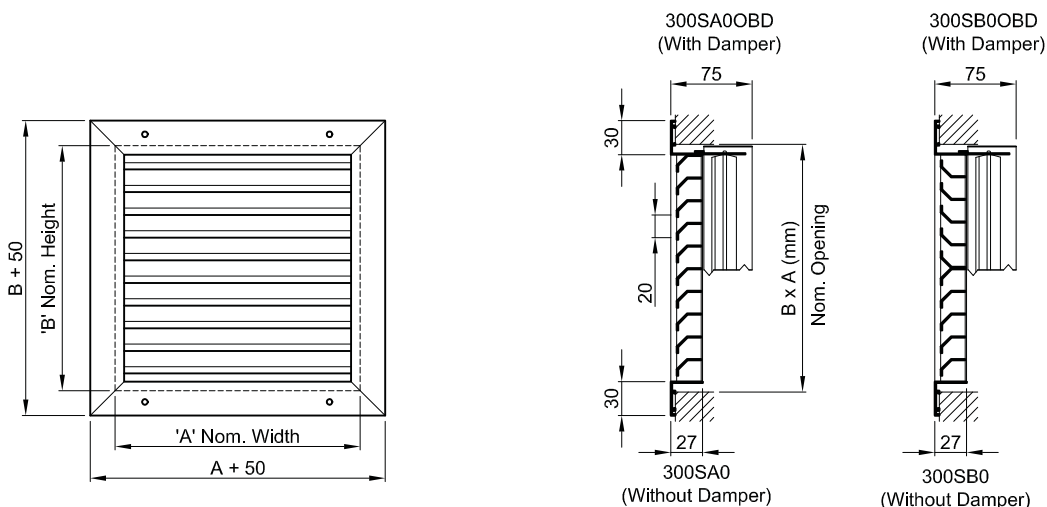
From 100 x 100 to 2000 x 1200 in 25 mm increments. Mullions are incorporated when the width exceeds 700 mm. Free Area approximately 50%. Multiple sections are available as per the size requirement.



### How to Specify

State Quantity, the series, product coding and the size width x height  
e.g 10 Qty. 300SA0OBD+1W 300x300

Series	Frame Style		Core		Options		Accessories		Fixings		Finish		
300	S	27mm Flange	A	Horizontal Vanes	O	Fixed Core	OBD	Opposed Blade Damper	1	Screw Fixing	W	Satin Anodised	
			B	2 – Way Horizontal Vanes	H	Hinged Core	EQ	Equalizing Grid	+	2	Concealed Fixing	X	PPC Ral 9010 Gloss White
					R	Removable Core						Y	PPC BS / Ral Color
												Z	Mill Finish



# Series PG

## Perforated Face Grille



### Description

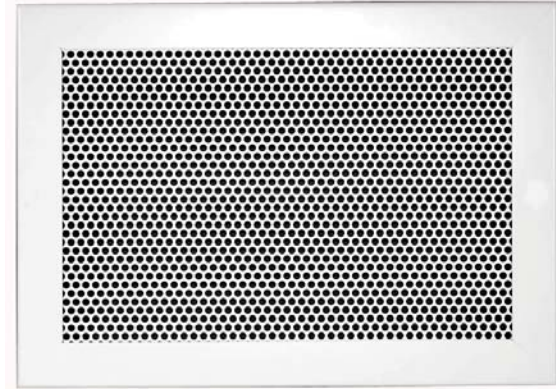
For return air, having a perforated panel core which provides an attractive yet practical finish. Suitable for wall, duct and ceiling mounted.

### Construction

The Frame is from 1.2 mm thick extruded aluminium section with perforated sheet core. Hairline mitres mechanically held. Optional OBD is of extruded aluminium. Standard mill finish and black finish also available on request.

### Size

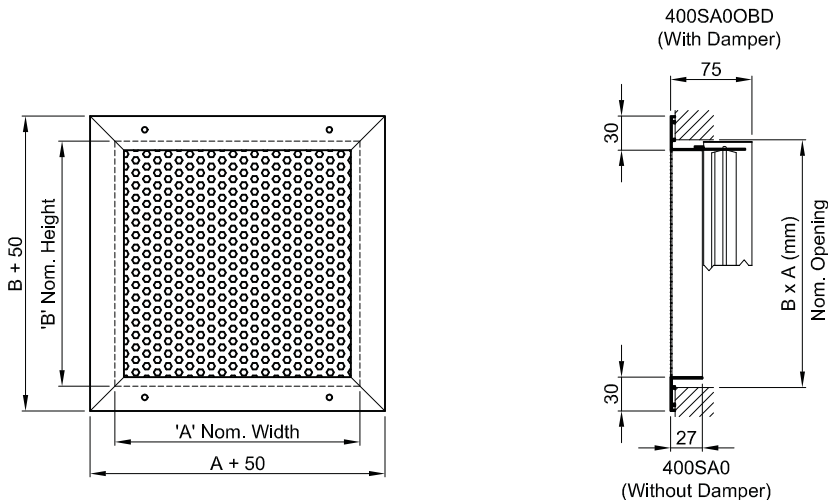
From 100 x 100 to 2000 x 1200 in 25 mm increments. Face mullions are incorporated when width exceeds 1050 mm. Free Area approximately 48%. Multiple sections are available as per the size requirement.



### How to Specify

State Quantity, the series, product coding and the size width x height  
e.g 10 Qty. PGSA0OBD+1Y 300x300

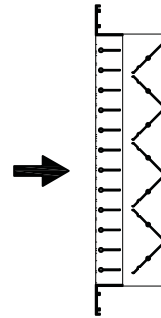
Series	Frame Style		Core		Options		Accessories		+	Fixings			Finish
	S	27mm Flange	A	Perforated Core Round Hole	0	Fixed Core	OBD	Opposed Blade Damper		1	Screw Fixing	Y	
			B	Perforated Core Square Hole	H	Hinged Core	EQ	Equalizing Grid		2	Concealed Fixing	Z	Mill Finish
					R	Removable Core							



# Technical Data Sidewall Mounted Extract Air Grilles

Series – 300 45° Fixed Blade

Series – PG Perforated



Ac (M <sup>2</sup> )	APERTURE A x B (mm)	Vf (M/S)	1.5	2.0	2.5	3.0	3.5	4.0	5.0
		Psn (Pa)	7	11	19	27	35	45	70
0.017	200 x 100	I/s	25	35	40	50	60	70	85
	150 x 150	NC	-	-	22	25	29	35	40
0.024	200 x 150	I/s	40	50	60	75	85	100	120
	350 x 100	NC	-	15	22	26	30	37	43
0.033	250 x 150	I/s	50	65	85	100	115	13	165
	200 x 200	NC	-	15	23	27	32	39	44
0.042	350 x 150	I/s	65	85	105	125	150	170	215
	250 x 200	NC	-	16	24	29	33	41	46
0.051	400 x 150	I/s	80	105	130	155	180	210	260
	300 x 200 250 x 250	NC	-	17	25	30	35	42	47
0.065	300 x 250	I/s	100	130	165	200	230	265	330
	500 x 150 350 x 200	NC	-	18	27	31	37	43	49
0.079	350 x 250	I/s	120	160	200	240	280	320	400
	300 x 300 450 x 200	NC	-	20	28	33	37	44	51
0.093	400 x 250	I/s	140	190	235	285	330	380	470
	350 x 300 500 x 200	NC	-	21	30	33	38	45	53
0.111	500 x 250	I/s	170	225	285	340	400	455	565
	350 x 350 400 x 300	NC	-	22	30	34	40	46	55
0.125	400 x 350	I/s	190	255	320	380	445	510	635
	450 x 300 550 x 250	NC	-	23	31	34	41	46	-
0.145	450 x 350	I/s	220	295	370	440	515	590	735
	400 x 400 550 x 300	NC	14	24	32	35	42	47	-
0.164	500 x 350	I/s	250	335	420	500	585	670	835
	450 x 400 600 x 300	NC	14	24	32	35	43	48	-
0.186	500 x 400	I/s	285	380	470	565	660	755	945
	450 x 450 700 x 300	NC	15	25	33	37	43	49	-
0.231	550 x 450	I/s	355	470	590	710	825	945	1180
	500 x 500 650 x 400	NC	16	27	34	38	44	52	-
0.251	600 x 450	I/s	380	510	635	765	890	1020	1275
	700 x 400 900 x 300	NC	16	27	34	38	44	53	-
0.300	750 x 450	I/s	455	605	755	905	1055	1210	1510
	800 x 400 600 x 550	NC	17	28	35	39	45	55	-
0.335	800 x 450	I/s	510	680	850	1020	1190	1365	1700
	600 x 600 900 x 400	NC	18	29	35	39	45	-	-
0.390	900 x 450	I/s	595	795	995	1190	1390	1590	1980
	1200 x 350 700 x 600	NC	19	29	36	41	47	-	-
0.510	1200 x 450	I/s	775	1035	1295	1555	1810	2070	2585
	900 x 600 750 x 750	NC	20	30	37	43	49	-	-
0.570	1200 x 500	I/s	870	1160	1450	1740	2030	2320	2880
	1000 x 600	NC	21	32	37	44	50	-	-
0.686	1200 x 600	I/s	1045	1390	1750	2095	2445	2785	3500
	900 x 800	NC	23	34	39	46	55	-	-

# Series NV

## Non Vision Door Transfer Grille



### Description

For air transfer applications, the blades provide vision proof conditions. Suitable for door, partition or wall mounting. For single grille usage, a matching rear telescope frame is available for neat appearance. The use of two grilles back to back in a matt black finish is recommended for darkroom use.

### Construction

The Frame is from 1.2 mm thick extruded aluminium section, the blades are 1.3 mm thick. Hairline mitres mechanically held. Optional OBD is of extruded aluminium. Standard mill finish and black finish also available on request.

### Size

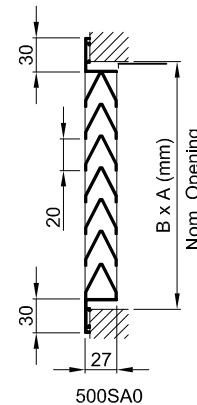
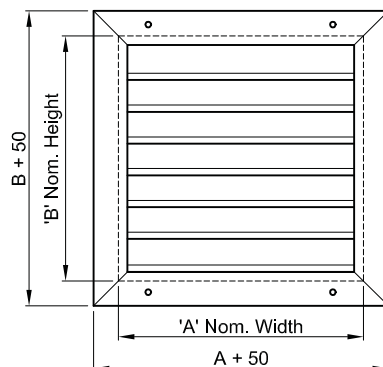
From 100 x 100 to 2000 x 1200 in 25 mm increments. Free Area approximately 38%. Multiple sections are available as per the size requirement.

### How to Specify

State Quantity, the series, product coding and the size width x height e.g **10 Qty. NVSA0+1W 300x300**



Series	Frame Style		Core		Options		Accessories		Fixings		Finish		
NV	S	27mm Flange	A	Non-Vision Grille only	0	Fixed Core			1	Screw Fixing	W	Satin Anodised	
			B	Grille + Std Backing Flange	H	Hinged Core			+	2	Concealed Fixing	X	PPC Ral 9010 Gloss White
			C	Grille + Deep Backing Flange	R	Removable Core					Y	PPC BS / Ral Color	
											Z	Mill Finish	



# Series L Fixed Linear Bar Grilles



## Description

For supply or extract air, having a single set of fixed blades, available with various blade style and blade pitches. Quick release core provides easy access to rear and concealed fixing facility. Suitable for wall, cill or ceiling mounting.

## Construction

From extruded aluminium section, frame 1.2 mm thick, blades 3.3 mm tapering to minimum 1.3 mm thick. Blade centres set a 12.5 mm as standard. 6 mm, 10 mm, 15 mm, and 20 mm centres also available. Hairline mitres mechanically held. Optional OBD is of extruded aluminium. Standard mill finish and black finish also available on request.

## Size

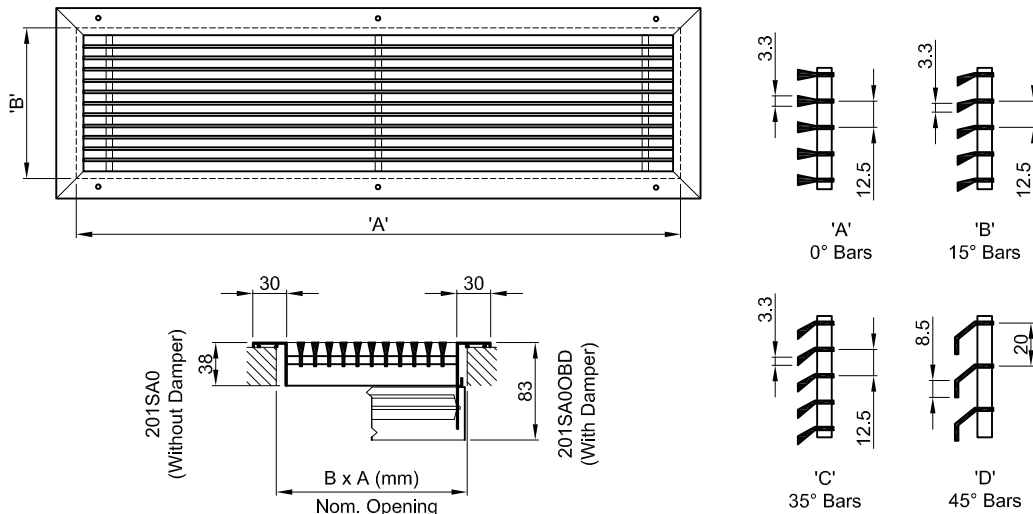
From 100 x 100 to 2000 x 1200 in 25 mm increments.  
Free Area approximately 77%.  
Multiple sections are available as per the size requirement.



## How to Specify

State Quantity, the series, product coding and the size width x height  
e.g **10 Qty. LSA0OBD+1W 300x300**

Series	Frame Style		Core		Options		Accessories		Fixings		Finish		
L	S	27mm Flange	A	0° Bars	0	Fixed Core	OBD	Opposed Blade Damper	1	Screw Fixing	W	Satin Anodised	
			B	15° Bars	H	Hinged Core	EQ	Equalizing Grid	+	2	Concealed Fixing	X	PPC Ral 9010 Gloss White
			C	35° Bars	R	Removable Core						Y	PPC BS / Ral Color
			D	45° Bars								Z	Mill Finish



# Series LB

## Economy Linear Bar Floor Grilles



### Description

For supply or extract air, having a single set of fixed linear blades 0°  
Suitable for floor mounting in areas of light foot traffic only.  
ceiling mounting.

### Construction

From extruded aluminium section, frame 1.2 mm thick, blades 6 mm thick. Hairline mitres mechanically held. Optional OBD is of extruded aluminium. Standard mill finish and black finish also available on request.



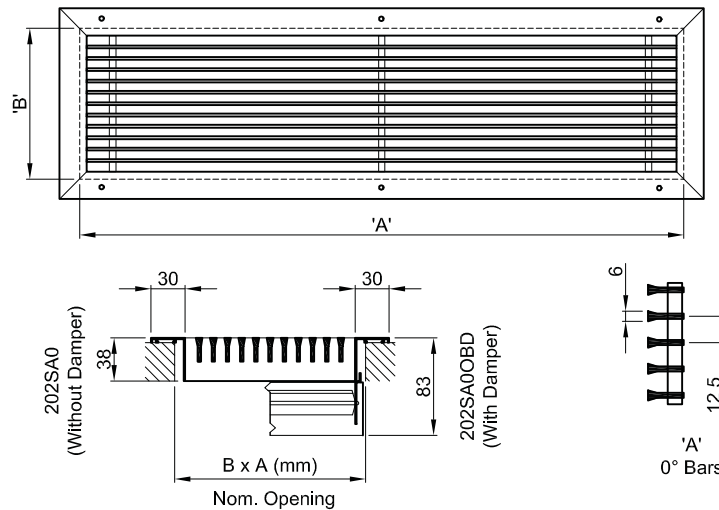
### Size

From 100 x 100 to 2000 x 1200 in 25 mm increments.  
Face mullions are incorporated when width exceeds 500 mm.  
Free Area approximately 55%.  
Multiple sections are available as per the size requirement.

### How to Specify

State Quantity, the series, product coding and the size width x height  
e.g 10 Qty. **LBSA0OBD+1W 300x300**

Series	Frame Style		Core	Options		Accessories		Fixings	Finish			
	S	A		0	R	OBD	EQ			1	2	Y
LB	S	27mm Flange	A	0° Bars	0	Fixed Core	OBD	Opposed Blade Damper	1	Screw Fixing	W	Satin Anodised
					R	Removable Core	EQ	Equalizing Grid	2	Concealed Fixing	X	PPC Ral 9010 Gloss White
											Y	PPC BS / Ral Color
											Z	Mill Finish

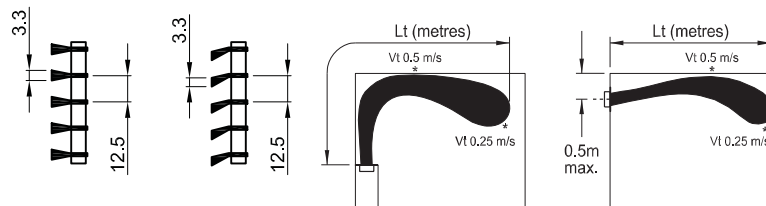




# Technical Data Linear Bar Grilles

## Series – L Fixed Linear

## Series – LB Economy Linear

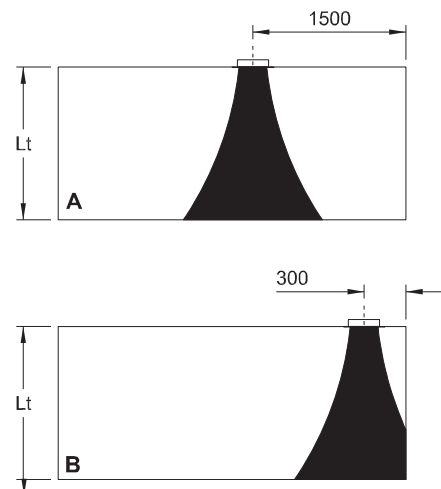


qm (l/s) (1000mm)	Nominal Duct H.	Psn (Pa) (Pascals)	Vf (m/s)	Lt (metres)	NC
40	50	2	1.25	0.9 - 1.8	-
50	50	3	1.50	1.5 - 3.0	-
60	50	6	2.00	2.3 - 4.1	-
75	50	9	2.50	2.7 - 5.0	18
	75	3	1.40	2.3 - 3.8	-
90	50	12	3.00	3.0 - 5.8	22
	75	4	1.65	2.4 - 4.3	-
	100	2	1.15	1.8 - 3.4	-
110	50	16	3.50	3.8 - 6.7	26
	75	6	2.00	3.0 - 5.3	14
	100	2	1.35	2.4 - 4.3	-
125	50	19	4.00	4.3 - 7.5	28
	75	8	2.25	3.0 - 5.7	15
	100	3	1.50	2.7 - 5.0	-
140	75	9	2.50	3.3 - 6.7	18
	100	5	1.75	2.7 - 5.4	-
	125	2	1.30	2.4 - 4.4	-
160	75	11	2.80	4.4 - 7.6	21
	100	6	1.90	3.3 - 6.0	15
	125	3	1.50	2.7 - 5.0	-
190	75	16	3.50	5.0 - 8.0	27
	100	8	2.40	4.0 - 6.4	19
	125	5	1.80	3.3 - 5.7	14
	150	3	1.50	3.0 - 5.0	-
230	75	22	4.20	6.0 - 10.0	33
	100	12	3.00	5.3 - 8.5	24
	125	7	2.20	4.7 - 7.0	17
	150	5	1.80	4.3 - 6.4	15
270	100	15	3.35	6.0 - 9.0	26
	125	9	2.50	5.6 - 8.0	20
	150	6	2.00	5.0 - 7.2	16
	200	3	1.50	4.3 - 6.0	-
310	100	17	3.80	7.3 - 10.6	29
	125	12	3.00	6.4 - 9.0	25
	150	8	2.35	5.3 - 8.2	20
	200	4	1.70	4.7 - 7.0	15
350	125	15	3.30	6.8 - 10.0	27
	150	10	2.65	5.7 - 9.0	22
	200	6	1.90	5.0 - 8.0	17
	250	3	1.50	3.7 - 6.8	-
390	125	17	3.65	7.5 - 11.0	29
	150	12	2.95	6.5 - 9.7	26
	200	6	2.10	6.0 - 9.0	18
	250	4	1.65	5.0 - 8.0	15
430	150	15	3.25	7.3 - 10.4	28
	200	8	2.35	6.8 - 9.7	21
	250	5	1.85	5.5 - 8.6	17
	300	3	1.50	5.0 - 7.7	14
470	150	16	3.50	8.0 - 11.0	30
	200	9	2.50	7.3 - 10.3	24
	250	6	2.00	6.0 - 9.3	19
	300	4	1.65	5.4 - 8.2	16
540	200	12	3.00	8.3 - 12.0	27
	250	8	2.30	7.5 - 11.0	22
	300	5	1.90	6.0 - 10.0	19

Grille Length (metres)	Multiply throw for sidewall and cill 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 the distance from the outlet to the opposing wall or half the distance between opposing discharge grilles. The short throw distance (Lt) given in the tables is that point at which the discharge velocity has been reduced to Vt 0.5Ms and the longer throws shown is the distance at which the discharge velocity has been reduced to Vt 0.25Ms.



	-10° C (Td)	+/- 0 (Ti)	+10° C (Td)
A	Lt x 0.75	Lt x 0.60	Lt x 0.40
B	Lt x 1.0	Lt x 0.85	Lt x 0.60

Td = Temperature differential

Ti = Isothermal

# Series F Computer Room Floor Grilles



## Description

For supply or extract applications, the grilles are designed to integrate with the most popular raised access floor systems. Available in both Light and Extra Heavy duty.

## Construction

Manufactured from heavy gauge aluminium extrusions, the frames are fully welded construction. Extra heavy duty versions incorporate rear reinforcement Mullions to maintain full structural integrity.

The grille core is constructed from extruded aluminium bars with a face thickness of 6 mm, and is welded into retaining frame.

The frame profile is designed to sit directly in contact with the floor pedestal earth terminal, removing the need for additional earth bonding Connections and their associated expense.

## Size

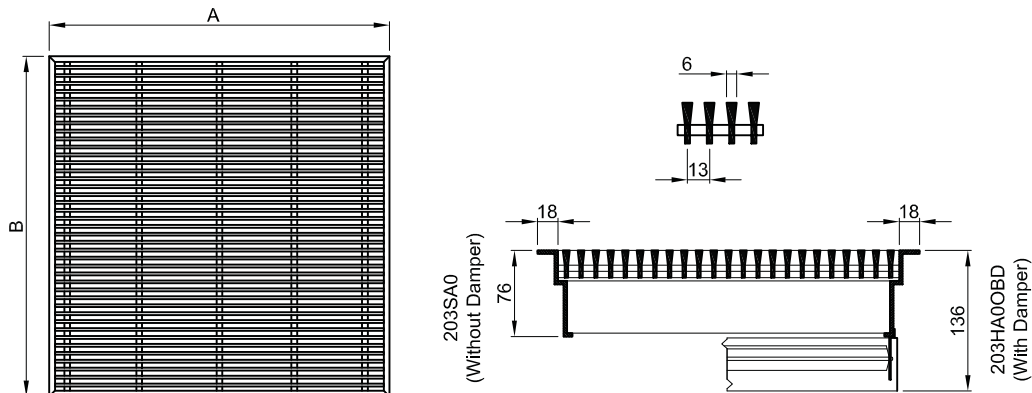
600 mm x 600 mm tile module size as standard, though other sizes are Available on request.

## How to Specify

State Quantity, the series, product coding and the size width x height e.g 10 Qty. FHA00BD+1W 300x300



Series	Frame Style	Core	Options	Accessories	Fixings	Finish
F	H Modular Tile 1.5Kn Loading	A 0° Bars	0 Fixed Core	OBD Opposed Blade Damper	1 Screw Fixing	U Linished
	R Modular Tile 4.5Kn Loading		R Removable Core	EQ Equalizing Grid	2 Concealed Fixing	V Shadow Line
						X PPC Ral 9010 Gloss White
						Y PPC BS / Ral Color
						Z Mill Finish



# Technical Data Computer Room Floor Grilles



## Extra Heavy Duty Floor Grilles

Designed to meet extra heavy static concentrated loads  
Of 4.5 Kn over 25 mm x 25 mm area and 11 Kn over  
4 off 25 mm x 25 mm area.

Technical Data (Supply)							
q (l/s)	Vf (M/s)	Vk (M/s)	Lt (metres)	H77L0 (without damper)		H77LV (with damper)	
				Ps (Pa)	NC	Ps (Pa)	NC
100	0.29	0.75	1.6	1	-	1	-
150	0.44	1.13	1.9	2	-	3	-
200	0.58	1.5	2.4	3	-	4	15
250	0.73	1.88	2.6	5	14	7	17
300	0.88	2.25	2.9	6	16	9	20
350	1.02	2.63	3.2	9	19	13	24
400	1.17	3.0	3.7	11	21	16	26
450	1.32	3.38	3.9	13	24	19	29
500	1.46	3.75	4.3	15	25	22	31
550	1.61	4.14	4.5	18	27	26	33
600	1.75	4.51	-	20	28	30	36

Technical Data (Extract)					
q (l/s)	Vf (M/s)	H77L0 (without damper)		H77LV (with damper)	
		Ps (Pa)	NC	Ps (Pa)	NC
100	0.29	2	-	3	-
200	0.58	4	18	7	22
300	0.88	8	21	11	25
400	1.17	13	24	18	29
500	1.46	18	26	23	31
600	1.75	23	28	27	33
700	2.04	26	34	39	39
800	2.33	32	37	46	43