

Security Grille

Description

Security ventilation grille for supply, air transfer or extract applications. Stainless Steel type complies with Home Office Recommendations for Anti-Ligature applications. Stainless Steel option to have 2.0mm holes on 4.0mm centres. Mild Steel application to have 3.0mm holes on 6.0mm centres.

Construction

Constructed from 3.0mm thick Mild Steel or 2.0mm thick Stainless Steel sheet with 50mm borders.

Size and Weight

From 150 x 150 to 600 x 600
 PMR00 20kg/m², PMR20 24kg/m², optional OBD + 8kg/m²
 Free Area approximately 22.5%

How to Specify

STATE QUANTITY, THE PRODUCT CODING AND THE SIZE WIDTH X HEIGHT
 e.g. 10 Qty. PSR20+1P 300 x 300



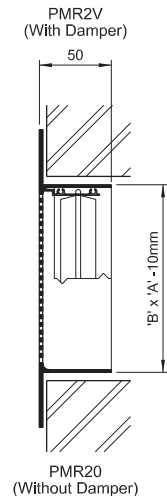
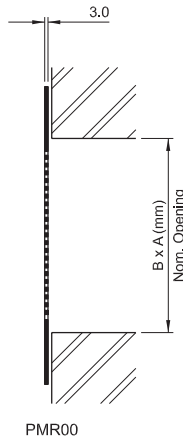
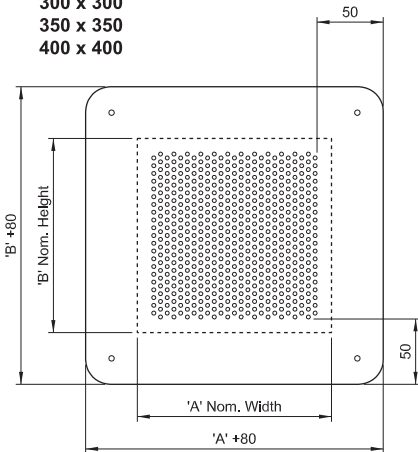
Product	Construction	Options	Accessories
P Prison/Security	M 3.0mm Mild Steel	R0 Face Plate Only	0 None
	S 2.0mm Stainless Steel	R1 Top Inlet Plenum Box	V Damper
		R2 50mm Welded Neck	F Flap Damper



Fixings	Finish
1 Flange Holes	C PPC BS /RAL Colour
2 Neck Fixings	P Stainless Steel Satin Polish

'A' x 'B' (mm)

- 150 x 150
- 200 x 200
- 250 x 250
- 300 x 300
- 350 x 350
- 400 x 400



Selection Table Steel Security Grille

Grille Size													
150 x 150													
q (l/s)	20	25	30	35	40								
Lt (M)	4.1	5.0	5.9	7.0	8.0								
NC	22	27	30	35	40								
Vk (M/s)	5.3	6.6	7.9	9.2	10.52								
Vn (M/s)	1.17	1.47	1.76	2.06	2.35								
PS (Pa)	15	25	35	45	52								
200 x 200													
q (l/s)	20	25	30	35	40	45	50	55	60				
Lt (M)	3.1	3.9	4.5	5.0	5.8	7.0	7.5	8.3	9.1				
NC	17	18	20	24	27	30	34	38	40				
Vk (M/s)	2.7	3.4	4.1	4.8	5.5	6.2	6.8	7.5	8.2				
Vn (M/s)	0.62	0.78	0.93	1.09	1.25	1.40	1.56	1.71	1.85				
Ps (Pa)	5	8	10	15	20	25	30	35	40				
250 x 250													
q (l/s)	30	35	40	45	50	55	60	65	70	75	80	85	90
Lt (M)	3.5	4.2	5.0	5.5	6.0	7.0	7.5	8.1	9.0	9.5	10.0	11.0	12.0
NC	10	17	20	24	25	27	30	33	35	37	38	40	43
Vk (M/s)	2.5	2.9	3.4	3.8	4.2	4.6	5.0	5.5	5.9	6.3	6.7	7.1	7.6
Vn (M/s)	0.56	0.66	0.75	0.85	0.94	1.03	1.13	1.22	1.32	1.41	1.50	1.60	1.69
Ps (Pa)	4.5	6	9	10	14	16	19	22	27	32	36	40	45
300 x 300													
q (l/s)	40	45	50	60	70	80	90	100	110	120	130		
Lt (M)	4.1	4.5	5.0	6.0	7.5	8.5	9.5	11.0	12.0	13.0	14.0		
NC	15	18	19	24	25	30	35	37	38	43	45		
Vk (M/s)	2.3	2.6	2.8	3.4	4.0	4.5	5.1	5.7	6.3	6.8	7.4		
Vn (M/s)	0.51	0.57	0.64	0.76	0.89	1.02	1.15	1.28	1.41	1.53	1.66		
Ps (Pa)	4	4.6	6	10	13	15	20	27	35	38	42		
350 x 350													
q (l/s)	50	60	70	80	90	100	120	140	160	180			
Lt (M)	4.5	5.5	6.5	7.5	8.5	9.5	11.0	13.0	14.5	17.0			
NC	16	18	22	25	28	31	37	40	45	50			
Vk (M/s)	2.0	2.4	2.8	3.3	3.7	4.1	4.9	5.7	6.5	7.3			
Vn (M/s)	0.45	0.55	0.64	0.73	0.82	0.91	1.10	1.28	1.46	1.65			
Ps (Pa)	4	5	7	9	12	15	20	30	40	50			
400 x 400													
q (l/s)	60	80	100	120	140	160	180	200	220				
Lt (M)	4.5	6.0	8.0	9.5	12.0	13.0	14.0	16.0	18.0				
NC	15	20	25	30	33	39	42	45	50				
Vk (M/s)	1.8	2.5	3.0	3.7	4.3	4.9	5.5	6.2	6.7				
Vn (M/s)	0.41	0.55	0.69	0.83	0.97	1.11	1.25	1.38	1.53				
Ps (Pa)	3	5	8	12	15	24	30	35	45				

EXTRACT + 5 Pa + 5 Nc
 LT Figure is at 0.5 M/s Vt