



S W Hart & Co ®

MAKE HART MODEL PSAG

Perforated Security Air Grille

FEATURES :

- ⊙ Robust tamper proof construction
- ⊙ Steel construction - zinc plated after manufacture and powder coated
- ⊙ Stainless steel construction - standard 2-B finish or electro-polished on request

ACCESSORIES :

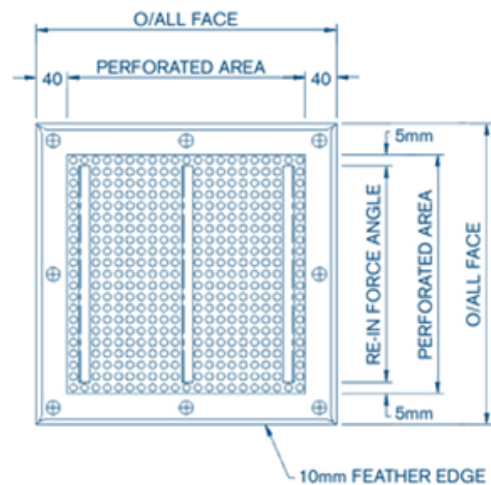
- ⊙ Cushion Head Box
- ⊙ OBD

INSTALLATION :

- ⊙ Prison cells
- ⊙ Hospital psychiatric wards
- ⊙ Police holding cell



DIMENSION :



PSAG – STANDARD SIZES :

- ⊙ Made to order

PERFORATION OPTION :

HOLE DIA	FREE AREA	SHEET THICKNESS
1.6 DIA	36%	0.9mm
3.25 DIA	41%	2.0mm



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1.6mm dia holes at 2.54 centres (36% free area)

GRILLE SIZE 200 X 200

AIR VOLUME L/S	16	27	33	40	46	50	62	73	84	92
JET VELOCITY (M/S)	1.1	1.9	2.3	2.8	3.2	3.4	4.2	5	5.7	6.3
THROW (MTR)	1.1	2	2.6	3.2	3.9	>4	>4	>4	>4	>4
PRESSURE DROP (PA)	2	5	7	11	13	16	24	33	42	51
SOUND LEVEL (NC)	<11	<11	<11	<11	<11	<11	17	23	27	29

GRILLE SIZE 300 X 300

AIR VOLUME L/S	37	55	62	77	97	110	121	138	149	169
JET VELOCITY (M/S)	1.2	1.7	1.9	2.4	3	3.4	3.8	4.2	4.6	5.2
THROW (MTR)	1.8	3.1	3.6	>4	>4	>4	>4	>4	>4	>4
PRESSURE DROP (PA)	4	7	8	12	17	20	23	27	31	37
SOUND LEVEL (NC)	<12	<12	<12	<12	<12	<12	16	20	23	26

GRILLE SIZE 400 X 400

AIR VOLUME L/S	65	97	111	133	168	200	222	245	267
JET VELOCITY (M/S)	1.1	1.7	1.9	2.3	2.9	3.5	3.9	4.2	4.6
THROW (MTR)	1.4	3.1	3.8	>4	>4	>4	>4	>4	>4
PRESSURE DROP (PA)	2	5	7	9	14	19	23	27	32
SOUND LEVEL (NC)	<12	<12	<12	<12	<12	17	22	24	28



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1.6mm dia holes at 2.54 centres (36% free area)

GRILLE SIZE 500 X 500

AIR VOLUME L/S	100	152	205	244	272	307
JET VELOCITY (M/S)	1.1	1.7	2.3	2.7	3	3.4
THROW (MTR)	3.2	>4	>4	>4	>4	>4
PRESSURE DROP (PA)	2	5	8	10	13	16
SOUND LEVEL (NC)	<12	<12	16	19	24	28

GRILLE SIZE 600 X 600

AIR VOLUME L/S	130	194	259	324	389	454
JET VELOCITY (M/S)	1	1.5	2	2.5	3	3.5
THROW (MTR)	2.6	3.2	3.5	3.8	3.9	4
PRESSURE DROP (PA)	2	4	7	10	14	18
SOUND LEVEL (NC)	<12	13	16	19	22	25

- ⊙ Throw based on vertical throw to a terminal velocity of 0.25 m/s.
- ⊙ > signifies value greater than.
- ⊙ < signifies value less than.
- ⊙ Noise criterion based on room absorption of 10 dB.
- ⊙ The above tables are extracted from NATA Certified Test Reports.
Copy of Certified Report available on request.