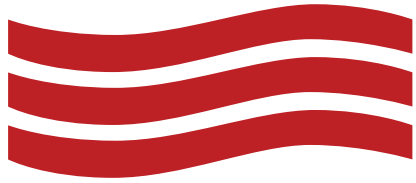


# AIRFOIL

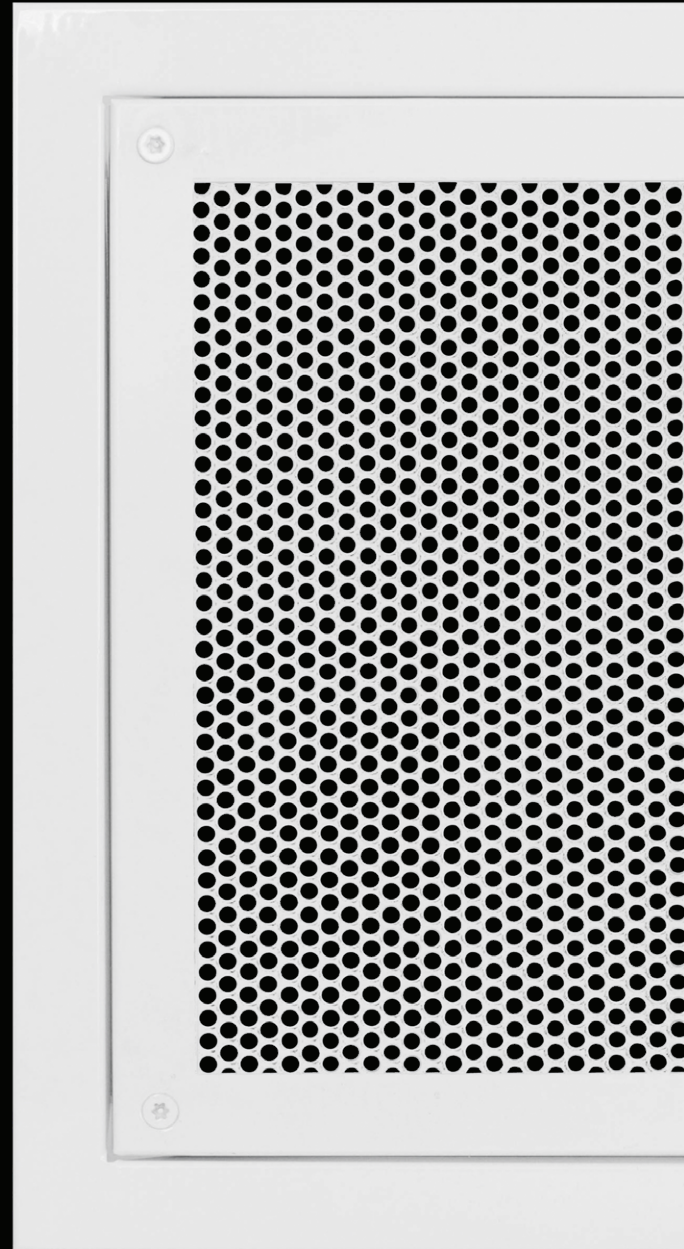


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**ANTI-TAMPER  
PERFORATED GRILLE  
AT-PG**



## ANTI-TAMPER PERFORATED GRILLE AT-PG

### PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Australian Made and Designed Anti-Tamper Perforated Grille (AT-PG) is manufactured from the finest Australian steel. This grille has a free area of approximately 50% which makes it extremely effective in supply and return air functions.

Airfoil's AT-PG is manufactured to the highest standard providing utmost security. Its unique perforated core is held within its 20mm outer frame with a grille depth of 50mm. The outer frame is folded from 1mm diameter zinc anneal for maximum strength and rigidity.

The centre core is removable for ease of installation and is held in place by anti-tamper security screws. The anti-tamper screws are designed to prevent any unauthorised access or interference through the face of the grille.

Manufactured to any size, the AT-PG is available in our standard white powder-coated finish or can be powder-coated to any specific colour on request. The AT-PG has been designed for use in high-risk settings such as prisons, correctional facilities, mental health hospitals, childcare centres, airports, general hospitals, police stations or in any commercial application where security is paramount.

## ANTI-TAMPER PERFORATED GRILLE AT-PG

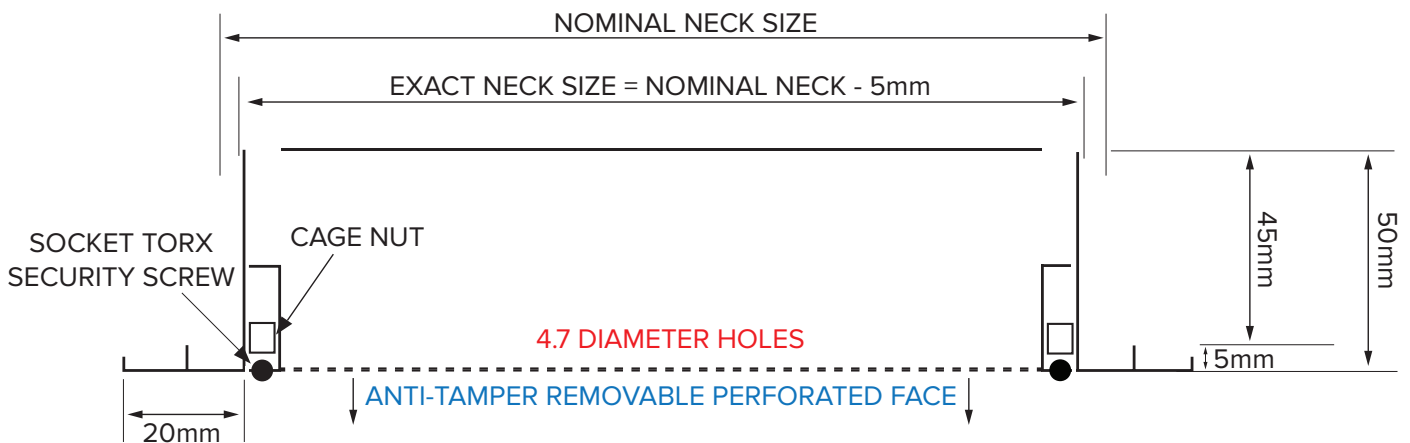
### PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – AT-PG**
- Australian Made and Designed
- Steel Construction
- 1mm diameter zinc anneal for maximum strength
- Effective for use in supply and return air applications
- Removable Core for easy installation
- 20mm wide outer frame
- 50mm deep frame
- 50% free area
- Anti-Tamper Socket Torx Security Screws with accompanying star key for access
- Matching interlocking M5 Metal Cage Nut to suit screw
- Designed to prevent unauthorised access or interference
- 4.7mm diameter perforated holes pitched at 6.3mm centers
- Manufactured to any size
- Comes standard in our white powder-coated finish
- Special powder-coating colours available upon request
- Suitable for use in high-risk settings such as prisons, correctional facilities, mental health hospitals, childcare centres, airports, general hospitals, police stations or in any commercial application where security is paramount
- Airfoil tested information available
- **The following metric performance data has been derived from exhaustive testing in elaborate laboratories of acoustic and vibrational engineers Louis A. Challis and Associates Proprietary Limited. Darling Street, Sydney 2000**



## ANTI-TAMPER PERFORATED GRILLE AT-PG

### CROSS SECTIONAL DIAGRAM



#### DISCLAIMER:

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## ANTI-TAMPER PERFORATED GRILLE AT-PG

### PERFORMANCE DATA

#### RETURN AIR

	Neck Velocity m/s	1.5	2.0	2.5	3.0	3.5	4.0	4.5
Nominal Face	Neg. Stat Press. Pa	7.5	12.5	19.0	27.5	41.0	50.0	64.0
Neck/Face	Vel. Press Pa.	1.5	2.5	3.8	5.5	7.8	10	12.8
<b>244 x 244</b> <b>300 x 300</b>	Volume L/S NR	89 -	119 <22	149 25	179 31	208 36	238 40	268 43
<b>344 x 344</b> <b>400 x 400</b>	Volume L/S NR	178 -	237 <22	296 26	355 32	414 37	473 41	533 45
<b>444 x 444</b> <b>500 x 500</b>	Volume L/S NR	295 -	394 <22	493 27	595 33	690 38	789 42	887 46
<b>544 x 544</b> <b>600 x 600</b>	Volume L/S NR	444 -	592 <22	740 28	888 34	1036 39	1184 43	1332 47
<b>544 x 244</b> <b>600 x 300</b>	Volume L/S NR	199 -	266 <22	332 26	398 32	465 37	531 42	597 45
<b>1144 x 244</b> <b>1200 x 300</b>	Volume L/S NR	419 -	558 <22	698 28	837 34	977 39	1117 43	1256 47
<b>1144 x 544</b> <b>1200 x 600</b>	Volume L/S NR	933 <22	1245 23	1556 31	1867 37	2178 41	2489 46	2800 49

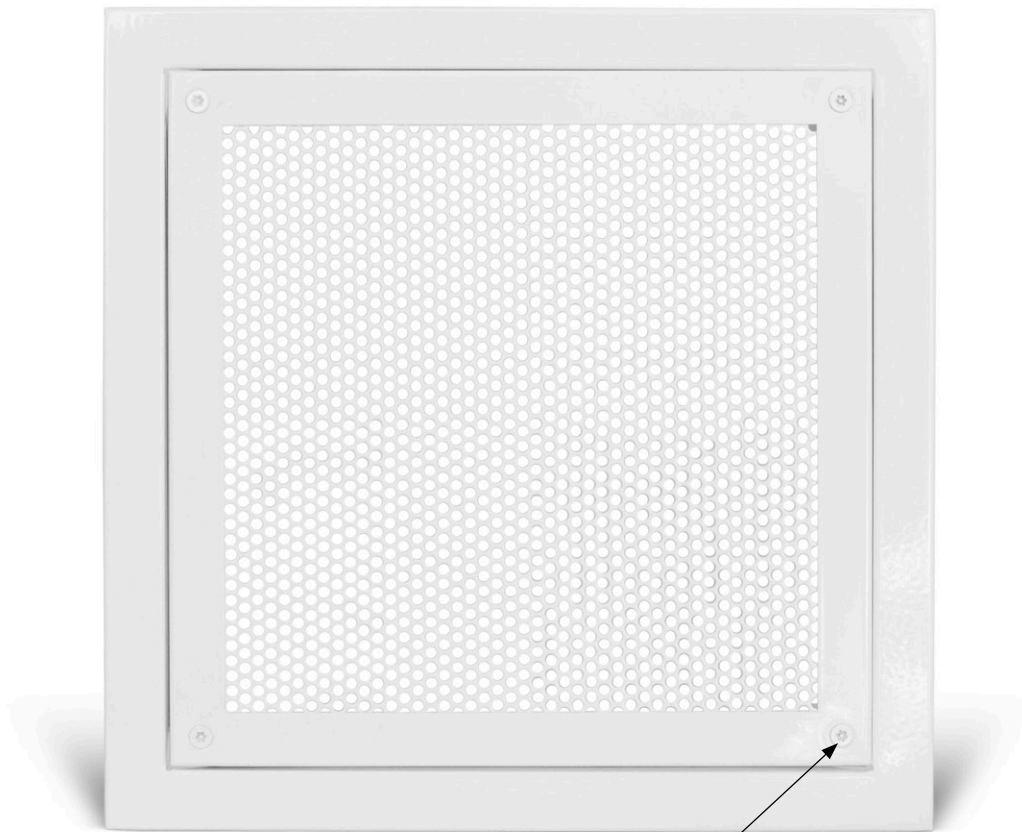
## ANTI-TAMPER PERFORATED GRILLE AT-PG

### PERFORMANCE DATA

#### SUPPLY AIR

Nom Face		Neck Velocity m/s	1.5	2.0	2.5	3.0	3.5	4.0	5.0
Inlet/Face	Air Pattern	Vel. Press Pa	1.5	2.5	4.0	5.8	7.8	10.0	15.8
150 x 150 300 x 300	1 WAY CORE 2 WAY CORE 3 WAY CORE 4 WAY CORE	Total Press Pa	308	0.3	9.8	14.0	10.0	24.5	38.8
		Volume L/S	35	47	59	70	82	94	118
		NR	-	-	<22	25	29	33	39
		Throw Metres	1.9 - 1.8	0.9 - 2.4	1.2 - 3.0	1.5 - 3.9	1.8 - 4.2	2.1 - 4.8	2.4 - 6.0
		Throw Metres	1.6 - 1.5	0.9 - 2.1	0.9 - 2.4	1.2 - 3.0	1.5 - 3.9	1.5 - 4.0	2.1 - 4.8
		Throw Metres	0.6 - 1.2	0.6 - 1.9	0.9 - 2.1	1.2 - 2.4	1.2 - 3.0	1.5 - 3.9	1.8 - 4.2
200 x 200 400 x 400	1 WAY CORE 2 WAY CORE 3 WAY CORE 4 WAY CORE	Total Press Pa	4.3	7.0	11.0	415.8	21.3	28	44
		Volume L/S	63	84	103	125	146	167	209
		NR	-	<22	24	30	34	37	43
		Throw Metres	0.9 - 2.4	1.2 - 3.3	1.8 - 4.2	2.1 - 4.8	2.4 - 5.7	2.7 - 6.4	3.3 - 8.2
		Throw Metres	0.9 - 1.8	1.2 - 2.7	1.2 - 3.3	1.5 - 4.0	1.8 - 4.5	2.1 - 5.1	2.7 - 6.4
		Throw Metres	1.6 - 1.8	0.9 - 2.1	1.2 - 3.0	1.5 - 3.9	1.8 - 4.2	1.8 - 4.5	2.4 - 5.7
250 x 250 500 x 500	1 WAY CORE 2 WAY CORE 3 WAY CORE 4 WAY CORE	Total Press Pa	4.5	7.5	12	17.3	23.3	300	48
		Volume L/S	99	132	162	195	228	261	327
		NR	<22	22	28	33	37	41	46
		Throw Metres	1.2 - 3.0	1.8 - 4.2	2.1 - 5.1	2.4 - 6.0	3.0 - 7.3	3.3 - 8.2	4.2 - 10.3
		Throw Metres	0.9 - 2.4	1.2 - 3.3	1.5 - 4.0	2.1 - 4.8	2.4 - 5.7	2.7 - 6.4	3.3 - 8.2
		Throw Metres	0.9 - 2.1	1.2 - 3.0	1.5 - 3.9	1.8 - 4.2	2.1 - 5.1	2.4 - 5.7	3.0 - 7.3
300 x 300 600 x 600	1 WAY CORE 2 WAY CORE 3 WAY CORE 4 WAY CORE	Total Press Pa	4.8	8	13	19	25	32	50
		Volume L/S	141	188	235	283	330	377	50
		NR	<22	25	31	36	40	44	51 - 12.0
		Throw Metres	1.5 - 3.9	2.1 - 4.8	2.4 - 6.0	3.0 - 7.6	3.9 - 8.8	4.0 - 9.7	4.0 - 9.7
		Throw Metres	1.2 - 3.0	1.5 - 4.0	2.1 - 4.8	2.4 - 5.7	2.7 - 7.0	3.0 - 7.9	3.9 - 8.5
		Throw Metres	1.2 - 2.4	1.5 - 3.9	1.8 - 4.5	2.1 - 5.1	2.4 - 6.0	2.7 - 7.0	3.3 - 8.2
450 x 150 600 x 300	1 WAY CORE 2 WAY CORE 3 WAY CORE 4 WAY CORE	Total Press Pa	9	15	24	34	47	60	93
		Volume L/S	106	141	176	212	247	283	353
		NR	<22	26	32	37	41	45	51
		Throw Metres	2.4 - 5.7	3.3 - 7.9	4.0 - 10.0	4.8 - 11.8	5.7 - 14.0	6.4 - 15.5	7.9 - 18.9
		Throw Metres	1.5 - 4.0	2.1 - 5.4	2.7 - 6.7	3.3 - 8.2	4.0 - 9.7	4.5 - 10.6	5.7 - 13.4
		Throw Metres	1.5 - 3.9	2.1 - 4.8	2.4 - 6.0	3.0 - 7.3	3.9 - 8.5	4.0 - 9.7	5.1 - 12.5
450 x 150 600 x 300	1 WAY CORE 2 WAY CORE 3 WAY CORE 4 WAY CORE	Total Press Pa	9	15	24	34	47	60	93
		Volume L/S	106	141	176	212	247	283	353
		NR	<22	26	32	37	41	45	51
		Throw Metres	2.4 - 5.7	3.3 - 7.9	4.0 - 10.0	4.8 - 11.8	5.7 - 14.0	6.4 - 15.5	7.9 - 18.9
		Throw Metres	1.5 - 4.0	2.1 - 5.4	2.7 - 6.7	3.3 - 8.2	4.0 - 9.7	4.5 - 10.6	5.7 - 13.4
		Throw Metres	1.5 - 3.9	2.1 - 4.8	2.4 - 6.0	3.0 - 7.3	3.9 - 8.5	4.0 - 9.7	5.1 - 12.5

## ANTI-TAMPER PERFORATED GRILLE AT-PG



**Anti-Tamper Socket  
Torx Security Screws**