

AIRFOIL

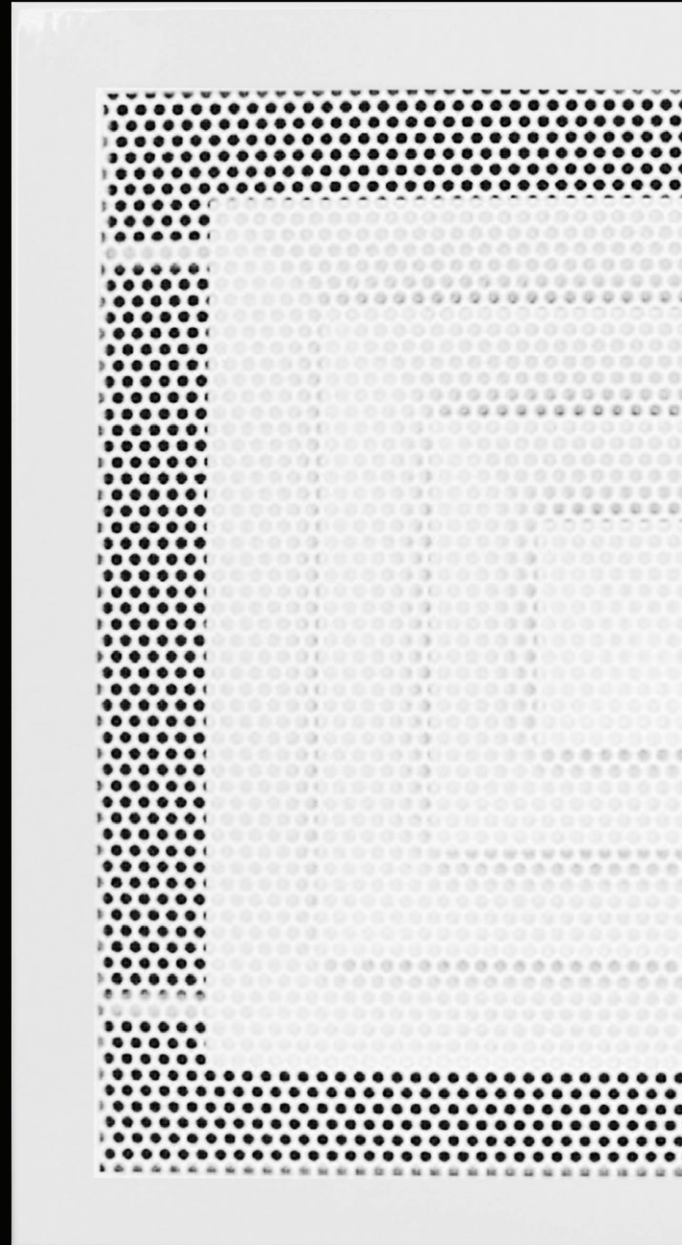


GRILLES
DUCT
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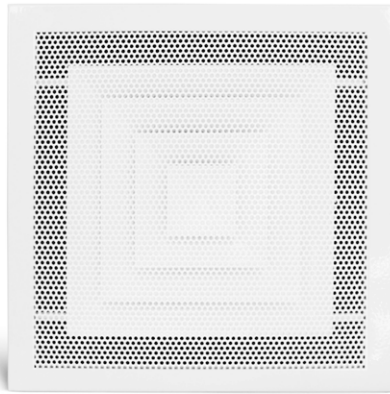
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**PERFORATED
SUPPLY AIR GRILLE
PG-SA**



PERFORATED SUPPLY AIR GRILLE PG-SA

PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Australian Made Removable Core Perforated Supply Air Grille (PG-SA) is meticulously crafted from high-quality extruded aluminium, ensuring durability and reliability. With a free area of approximately 50%, this grille offers efficient airflow distribution in supply air applications.

The PG-SA is available in a range of core diffusing patterns, including 1 Way, 2 Way Opposite, 3 Way, and 4 Way, providing versatility to suit various airflow requirements. These patterns are welded to the grille's outer frame, enhancing strength and rigidity.

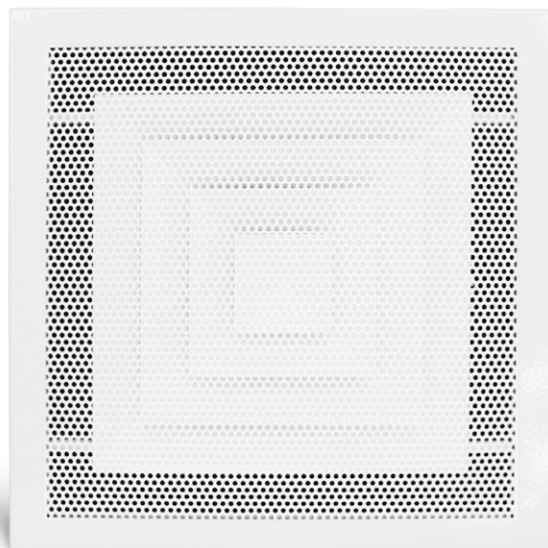
Featuring 4.7mm diameter perforated holes set at a 6.3mm pitch, the pattern of the grille facilitates efficient airflow through its face and perforated openings. With an outer frame fascia of 32mm, this grille exudes a sleek and modern design, enhancing the aesthetic appeal of any space. It is ideally suited for heating or cooling applications in supply air systems, providing effective air distribution while complementing the overall aesthetics of the environment.

Manufactured to accommodate any dimensions, the PG-SA is offered in our standard white powder-coated finish or alternatively, the Perforated Grille can be custom powder-coated to match any specific colour upon request. The product is suitable for commercial use in any building allowing for functional air distribution to a designated target area.

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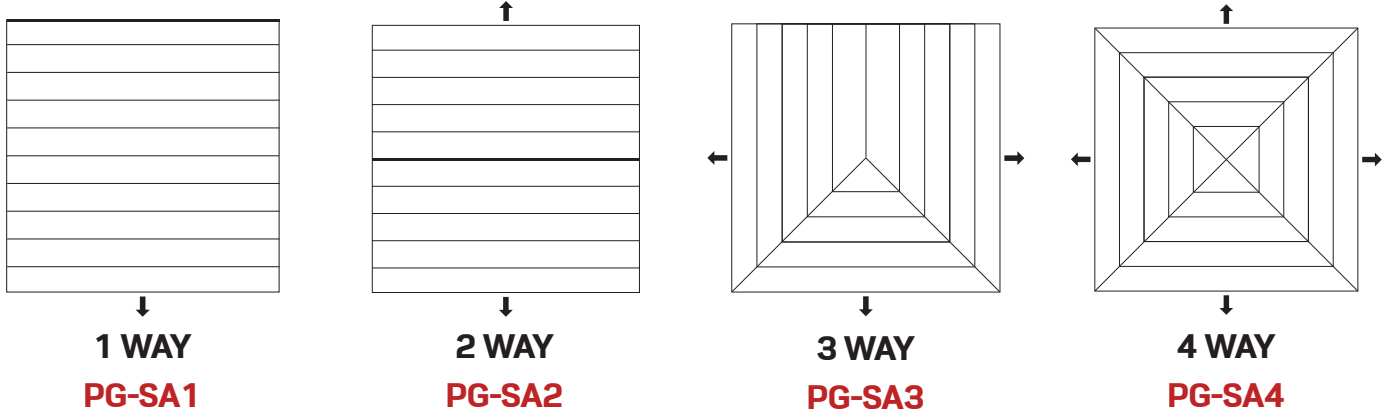
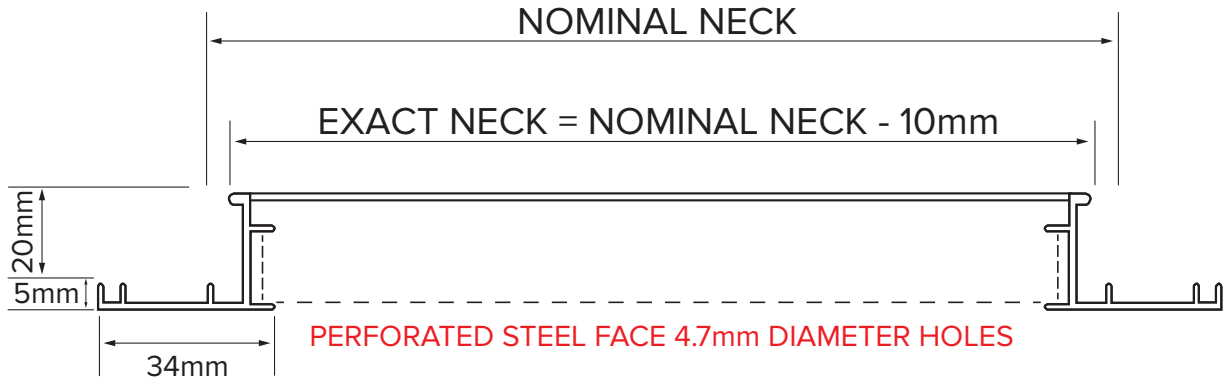
PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – PG-SA**
- Australian Made
- Aluminium and Steel Construction
- Available in **four** core diffusing patterns
- Effective in Supply Air applications
- 34mm frame
- 25mm overall deep frame
- 50% free area
- Offers a fixed steel perforated face
- 4.7mm diameter perforated holes pitched at 6.3mm centers
- Manufactured to any size
- Comes standard in our white powder-coated range
- Special powder-coating colours available upon request
- Suitable for any commercial application
- 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**



PERFORATED SUPPLY AIR GRILLE PG-SA

CROSS SECTIONAL DIAGRAM



DISCLAIMER:

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PERFORATED SUPPLY AIR GRILLE PG-SA

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
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