idealair
group

FORTIS

Security grilles

PGLRC
SPGM
SPGMX

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1 YR WARRANTY

SECURITY GRILLES

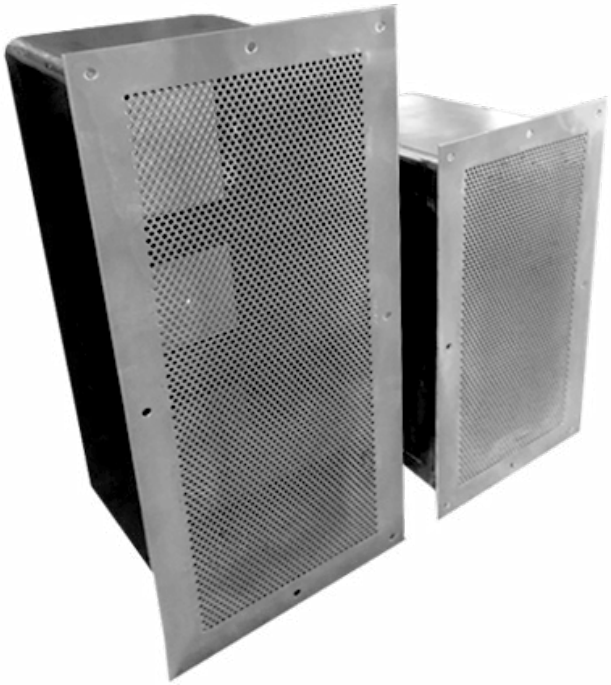
Overview

The “Fortis” range of security grilles and diffusers are specifically designed for secure areas such as prisons, hospitals and areas that are prone to vandalism. These robust grilles are made from a range of materials that give greater strength and security. Minimising and reducing self-harm, has been considered in the design of the security grilles.

PGLRC
Minmum to medium security grille.

SPGM
Medium security grille.

SPGMX
Maximum security grille.



Front view

Rear view

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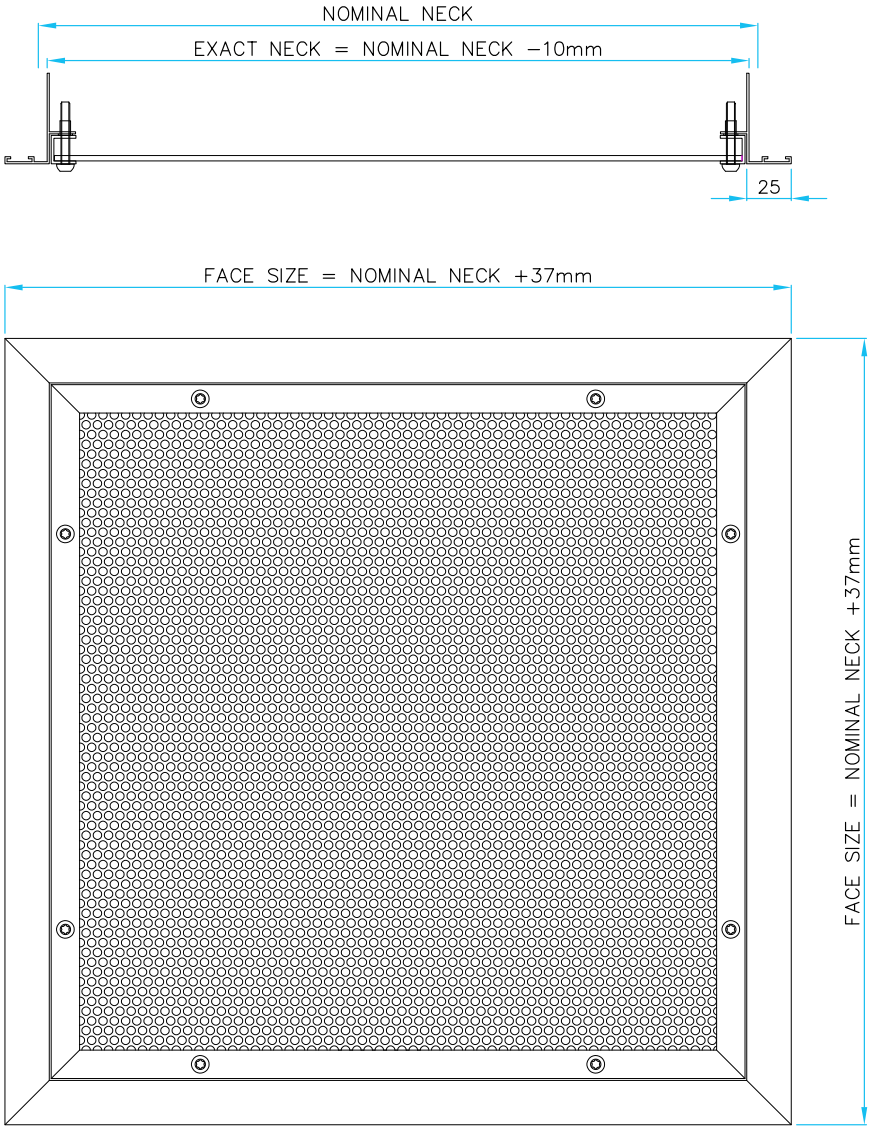
PGLRC - Perforated Lockable & Removable Core Grille

Specifically designed for low to medium security institutions where more robust, stronger and tamper proof grilles are required. These grilles also improve anti ligature requirements. The perforated plate is 3mm thick aluminium with a 3.2mm Ø hole at approx. 40% f/area set in a removable and lockable core, secured with security screws. Standard sizes up to 600 x 600, other sizes available on request. Grille has a powder coated finish.

NOTE. The aluminium outer frame does not have a bevel edge as the SPGM, this frame has a square edge.



PGLRC - MEDIUM SECURITY, PERFORATED, REMOVABLE CORE, LOCKABLE GRILLE.

PGLRC - MEDIUM SECURITY, PERFORATED, REMOVABLE CORE, LOCKABLE GRILLE

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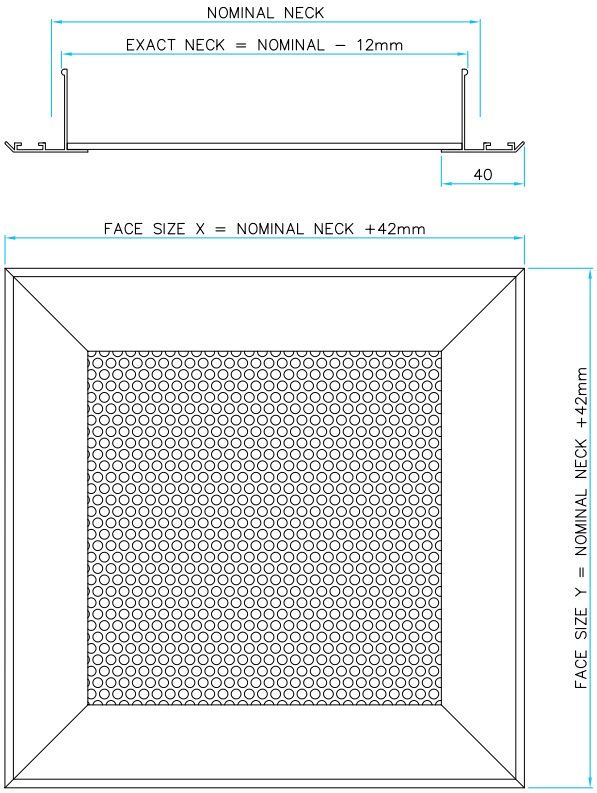
SPGM - Perforated Fixed Core Medium Security Grille.

Specifically designed for low to medium security institutions where more robust, stronger and tamper proof grilles are required. These grilles also improve anti ligature requirements. The perforated plate is 3mm thick aluminium with a 3.2mm Ø hole at approx. 40% f/area set in an aluminium frame. Standard sizes up to 600 x 600, other sizes available on request. Grille has a powder coated finish.



SPGM - MINIMUM SECURITY SUPPLY AIR GRILLE

PGLRC & SPGM Perforated Medium Security Grille

GRILLE SIZE (Nominal)	GRILLE AREA (m^2)	Pressure (Pa)	3	5	8	10	15	23	30	43	55
150 x 150	**0.02**	**Air flow (l/sec)**	14	18	23	23	28	37	42	51	61
		Noise (NR)	<20	<20	<20	<20	<20	<20	<20	23	27
200 x 200	**0.04**	**Air flow (l/sec)**	28	37	42	51	61	75	89	103	118
		Noise (NR)	<20	<20	<20	<20	<20	<20	21	26	30
250 x 250	**0.06**	**Air flow (l/sec)**	51	61	75	89	99	127	151	174	202
		Noise (NR)	<20	<20	<20	<20	<20	<20	23	28	32
300 x 300	**0.09**	**Air flow (l/sec)**	75	94	113	136	151	188	226	264	302
		Noise (NR)	<20	<20	<20	<20	<20	<20	25	30	34
350 x 350	**0.12**	**Air flow (l/sec)**	108	132	160	188	212	264	320	372	424
		Noise (NR)	<20	<20	<20	<20	<20	21	27	32	36
450 x 450	**0.20**	**Air flow (l/sec)**	184	231	273	320	368	457	552	641	736
		Noise (NR)	<20	<20	<20	<20	<20	23	29	34	38
500 x 500	**0.25**	**Air flow (l/sec)**	231	287	344	401	462	575	689	807	920
		Noise (NR)	<20	<20	<20	<20	<20	24	30	35	39
600 x 600	**0.36**	**Air flow (l/sec)**	339	424	509	594	679	849	1019	1189	1359
		Noise (NR)	<20	<20	<20	<20	<20	26	32	37	41

NOTE

This information to be used for selection purposes only and not for commissioning.
* NR Noise Rating based on room attenuation of 10dB.
*** FOR RETURN USE - Multilpy the Pa x 1.20. The NR (Noise) PLUS + 2.0.

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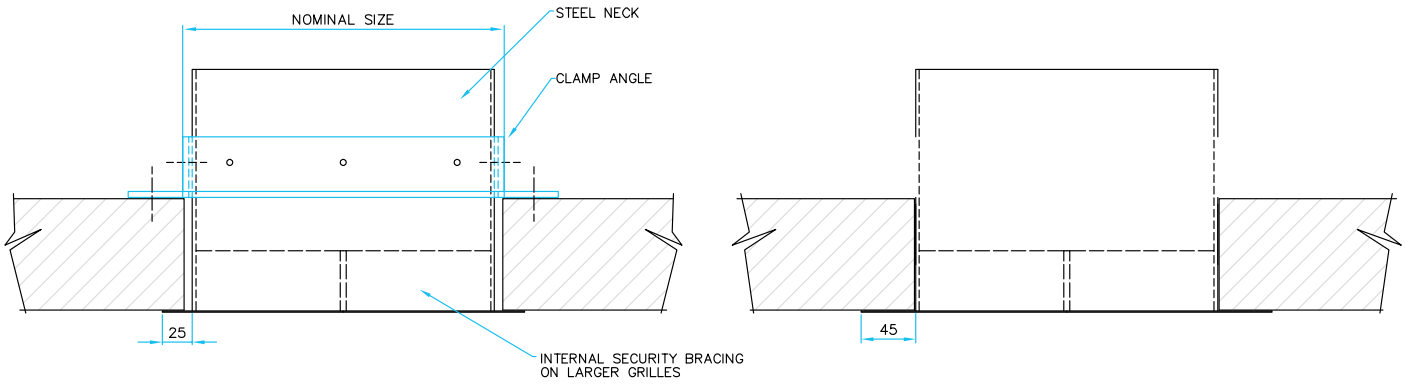
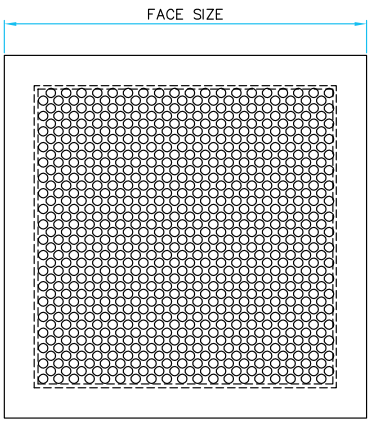
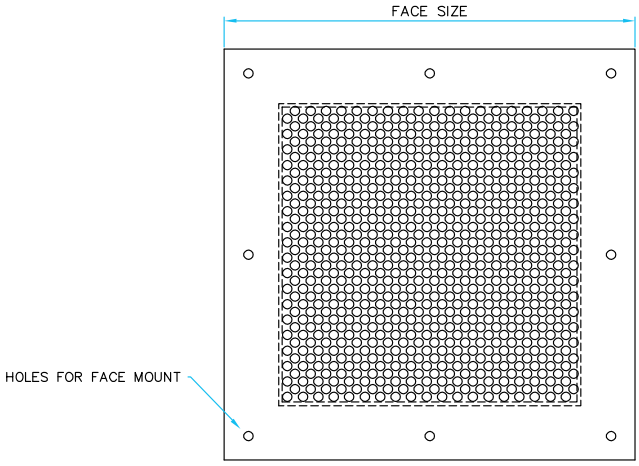
SPGMX - Perforated Maximum Security Grille

The small perforations and thick mild steel construction make this an ideal supply or exhaust air grille for higher security applications. The small perforations make it difficult to pass objects through, potentially reducing the possibility of self-harm. A variety of perforation sizes are available, for example, 2.41mm Ø holes at 40% free area in 1.6mm steel plate, 3.25 Ø holes at 41% free area in 2mm or 3mm steel plate. Extra security bracing can be fitted to grilles greater than 250 x 250mm. The grille can be rear or face mounted. Powder coated finish.
Stainless steel model is also available.





REAR FIXING



FACE FIXING

SPGM - MAXIMUM SECURITY GRILLE

Note

Many configurations and sizes of these security grilles are available.
Contact your representative or branch for further information.

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