



شركة مصنع عالم الناصريه المحدودة

AL NASSERIAH WORLD FACTORY COMPANY LTD

SECURITY GRILLES & REGISTERS



SECURITY GRILLES

ANA Security Grille :

Is designed from steel with maximum security feature with all welded construction with sleeve for the wall application and various hole sizes make the security grille as a flexible choice for security grilles with construction as per ASTM standards.



ANA SEC Construction

Face Plate :

Constructed from Steel sheet with a thickness of **(gauge 3)** and other thicknesses are available.

Sleeve :

Constructed from Steel sheet with a thickness of **(gauge 3)** and welded to the face plate. Depth of the sleeve can be provided as per project requirements (Standard 300mm).

Opposed Blade Damper :

Opposed blade dampers are provided upon request either face operated or rear operated (By screw).

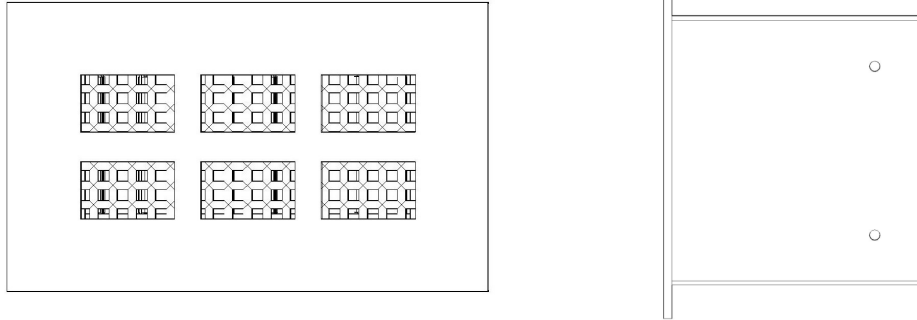
Finish :

Electrostatic powder coating is used for Security grille with standard white color **(RAL 9016)** and black color for the damper **(RAL 9005)** and other colors are available upon request from the customer.

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ANA Ultimate Security Grille - Lattice Model

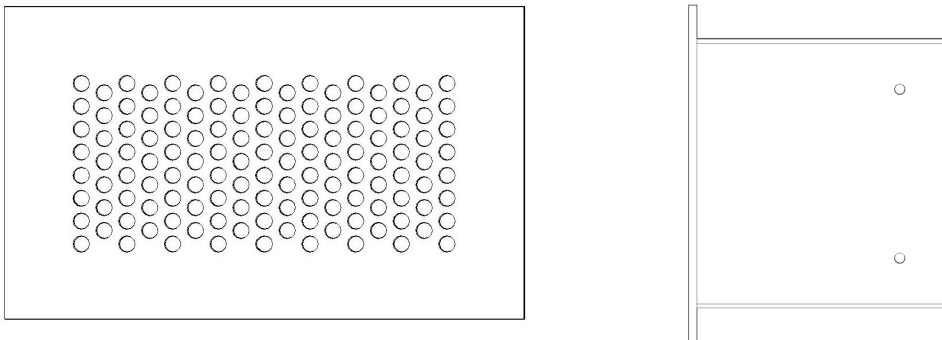
Model : NUSG-L



- Constructed from Steel sheet with a thickness of **(gauge 3)** and other thicknesses are available.
- Opposed blade damper can be added upon request which will be operated by screw (Front or Rear operation).
- Standard sleeve depth is 300mm and other options are available upon request.
- Wall depth must be provided in order to provide the fixing holes on the Security Grille.
- Retaining angles can be provided and fixed with security grille based on the wall depth in the provided holes.

ANA Ultimate Security Grille - Perforated Grille

Model : NUSG-P

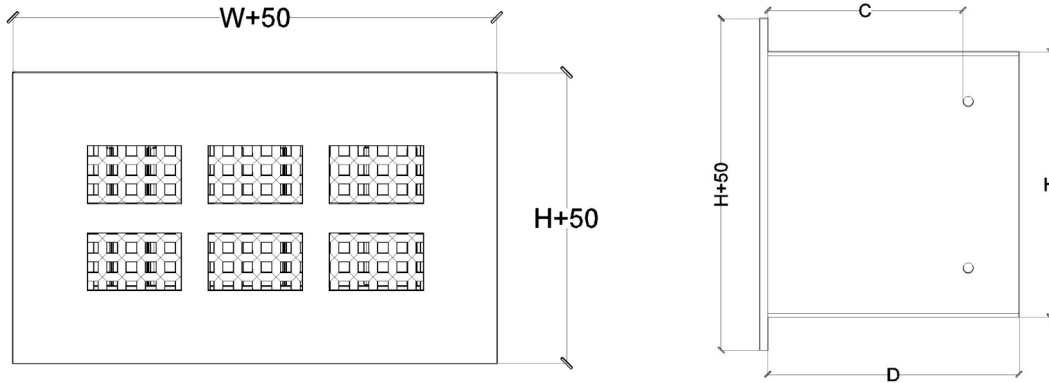


- Constructed from Steel sheet with a thickness of **(gauge 3)** and other thicknesses are available. Perforated face are provided for the maximum security and high effective free area
- Opposed blade damper can be added upon request which will be operated by screw (Front or Rear operation).
- Standard sleeve depth is 300mm and other options are available upon request.
- Wall depth must be provided in order to provide the fixing holes on the Security Grille.
- Retaining angles can be provided and fixed with security grille based on the wall depth in the provided holes.

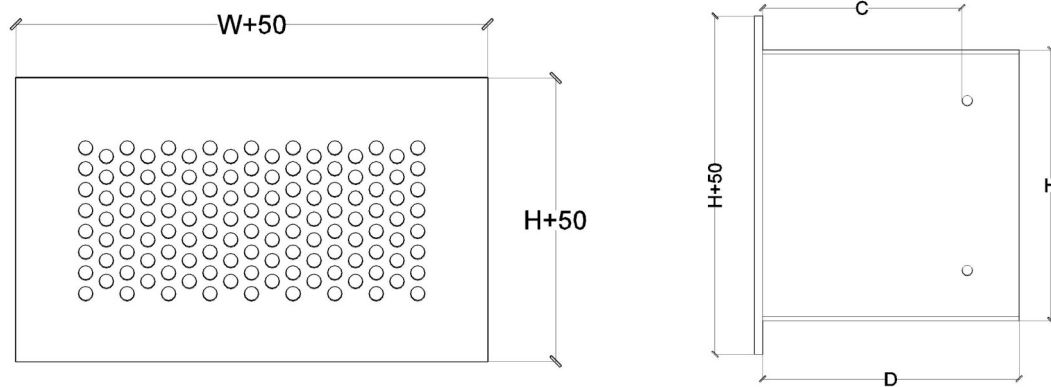
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ANA Security Grille Dimensions:

ANA Ultimate Security Grille - Lattice Model



ANA Ultimate Security Grille - Perforated Grille



* D = Sleeve Depth

* C = Wall Depth

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ANA Security Grille Technical Data:

Nominal Duct Size (in.)	Nominal Duct Area (sq. ft)	Face Velocity (fpm)	150	275	400	525	650	775	900	1025	1150
		Velocity Pressure (in.wg)	0.000	0.001	0.002	0.003	0.005	0.007	0.010	0.013	0.016
		Total Pressure (in.wg)	0.005	0.017	0.037	0.063	0.097	0.138	0.186	0.241	0.303
		Neck Velocity (fpm)	67	122	178	233	289	344	400	456	511
6x6	0.25	Airflow, cfm	17	31	44	57	72	86	100	114	128
		NC (Noise Criteria)	-	-	-	13	19	24	29	33	36
		Throw. Ft	1-2-5	2-5-9	4-7-11	6-9-13	7-10-14	9-11-16	10-12-17	10-13-18	11-14-19
12x12	1	Airflow, cfm	67	122	178	233	289	344	400	456	511
		NC (Noise Criteria)	-	-	-	19	25	30	35	39	42
		Throw. Ft	1-3-10	5-9-18	9-13-23	12-17-26	14-20-29	17-22-31	20-24-34	21-26-36	22-27-38
18x18	2.25	Airflow, cfm	150	275	400	525	650	775	900	1025	1150
		NC (Noise Criteria)	-	-	14	22	29	34	38	42	46
		Throw. Ft	2-5-15	7-14-27	13-20-34	17-26-39	22-31-43	26-33-47	29-36-51	31-38-54	33-41-58
24x24	4	Airflow, cfm	267	489	711	933	1156	1378	1600	1822	2044
		NC (Noise Criteria)	-	-	16	25	31	36	41	45	48
		Throw. Ft	3-6-20	9-18-37	18-27-45	23-35-52	29-41-58	34-45-63	39-48-68	42-51-72	44-54-77
30x30	6.25	Airflow, cfm	417	764	1111	1458	1809	2153	2500	2847	3194
		NC (Noise Criteria)	-	-	18	27	33	38	43	47	50
		Throw. Ft	3-8-25	11-23-46	22-33-57	29-44-65	36-51-72	43-56-79	49-60-85	52-64-91	55-68-96

* Throw values are for terminal velocities of 150, 100, 50fpm under isothermal conditions

* NC : Noise Criteria at 10db attenuation.

ANA Security Grille Installation:

