



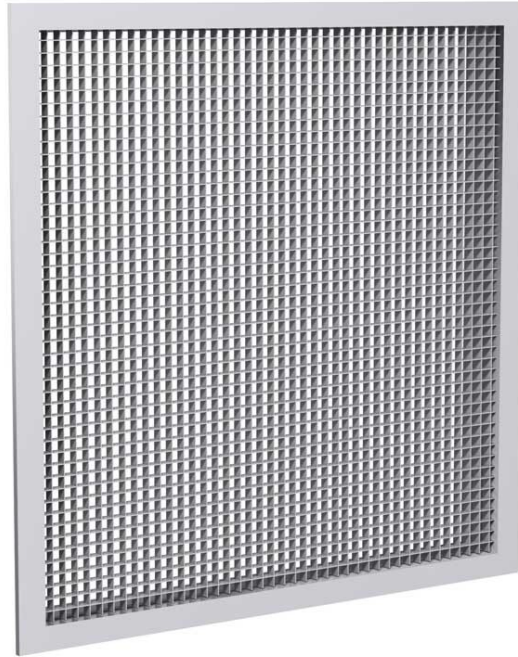
شركة مصنع عالم الناصريه المحدودة
AL NASSERIAH WORLD FACTORY COMPANY LTD

EGG CRATE GRILLE & REGISTER



ANA Egg Crate Grille :

Is made of linear slits which are bonded together to form a horizontal and vertical grid structure. Egg Crate Grille has uniform square openings with 90% free area & zero deflection for optimal air flow and distribution in rooms with low noise level and pressure drop.



ANA ECG Construction

Frame :

Constructed from extruded Aluminum alloy **6063** Profiles, with a thickness of **(1.2 mm)** and a flange width of **(30 mm)**.

Core :

Aluminum egg crate style core (13 x 13 x 13mm)

Dampers:

Can be added if required. Butterfly Damper **(RAL 9005)** type attached to the top side of the Diffuser by rivets.

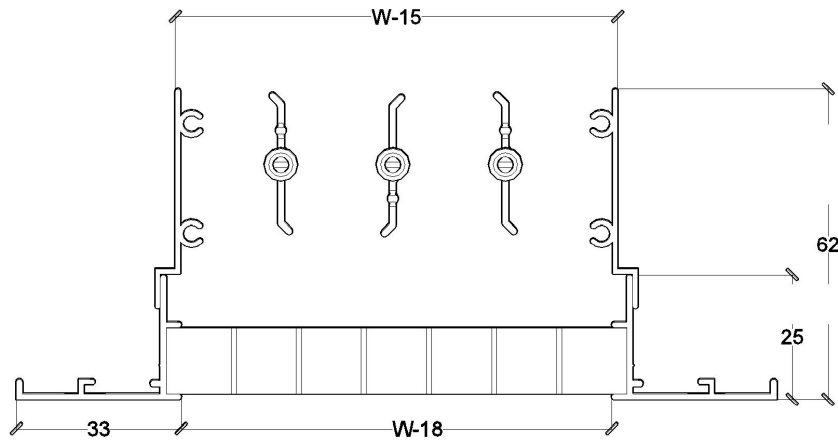
Finish :

Electrostatic powder coating is used for ECG with standard white color for the Frame and the cores **(RAL 9016)** and black color for the damper **(RAL 9005)** and other colors are available upon the request.

EGG CRATE GRILLE & REGISTER

ANA Egg Crate Grille Register

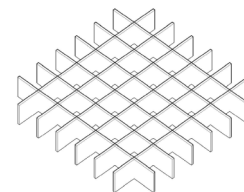
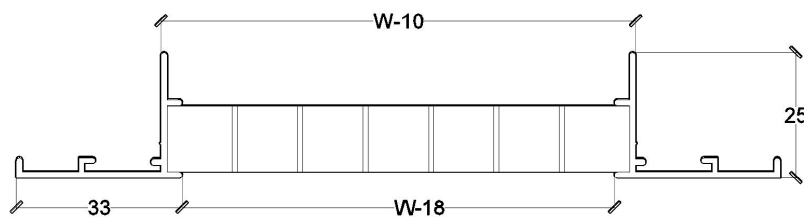
Model : NECGR



- Egg crate grilles are used in ceiling or wall where a variety of bold crisp lines are desired with a free area of 90%.
- Extruded Aluminum frame and core is made from aluminum sheet **6063**.
- Opposed Blade Damper is attached to the neck and can be controlled by the screw.

ANA Egg Crate Grille

Model : NECG



Core

- Egg crate grilles are used in ceiling or wall where a variety of bold crisp lines are desired with a free area of 90%.
- Extruded Aluminum frame and core is made from aluminum sheet **6063**.

EGG CRATE GRILLE & REGISTER

ANA Egg Crate Grille Performance Data

Model : NECG

Neck Size (inches)	Core Area (Sq. Ft.)	Core Velocity (fpm)	300	400	500	600	700	800	1000	1200	1400
		Velocity Pressure (in. w.g.)	.006	.010	.016	.022	.031	.040	.062	.090	.122
		Negative SP (in w.g.)	.016	.026	.042	.059	.082	.106	.165	.238	.323
6 x 6	0.172	CFM	52	69	86	103	120	138	172	206	241
		NC	25	28	30	32	33	34	36	38	40
8 x 6	0.248	CFM	74	99	124	149	174	198	248	298	347
		NC	24	27	29	31	32	34	36	38	39
10 x 6	0.312	CFM	93	125	156	187	218	250	312	374	437
		NC	23	26	28	30	32	33	35	37	38
12 x 6	0.387	CFM	116	155	194	232	271	310	387	464	542
		NC	23	26	28	30	31	33	35	37	38
14 x 6	0.452	CFM	135	181	226	271	316	361	452	542	633
		NC	23	26	28	30	31	32	35	36	38
16 x 6	0.517	CFM	155	207	259	310	362	414	517	620	724
		NC	23	25	28	29	31	32	34	36	38
18 x 6	0.592	CFM	178	237	296	355	414	474	592	710	829
		NC	22	25	27	29	31	32	34	36	37
20 x 6	0.657	CFM	197	263	329	394	460	526	657	788	920
		NC	22	25	27	29	30	32	34	36	37
24 x 6	0.797	CFM	239	319	398	478	558	638	797	956	1116
		NC	22	24	27	28	30	31	33	35	37
28 x 6	0.936	CFM	281	374	468	562	655	749	936	1123	1310
		NC	21	24	26	28	30	31	33	35	36
32 x 6	1.066	CFM	320	426	533	640	746	853	1066	1279	1492
		NC	21	24	26	28	29	31	33	35	36
36 x 6	1.205	CFM	361	482	603	723	844	964	1205	1446	1687
		NC	21	24	26	28	29	30	33	34	36
40 x 6	1.345	CFM	404	538	673	807	942	1076	1345	1614	1883
		NC	21	23	26	27	29	30	32	34	36
48 x 6	1.625	CFM	487	650	813	975	1137	1300	1625	1950	2275
		NC	20	23	25	27	29	30	32	34	35
8 x 8	0.344	CFM	103	138	172	206	241	275	344	413	482
		NC	23	26	28	30	31	33	35	37	38
10 x 8	0.441	CFM	132	176	220	267	309	353	441	529	617
		NC	23	26	28	30	31	32	35	36	38
12 x 8	0.527	CFM	158	211	264	316	369	422	527	632	738
		NC	22	25	27	29	31	32	34	36	37
14 x 8	0.624	CFM	187	250	312	374	437	499	624	749	874
		NC	22	25	27	29	30	32	34	36	37
16 x 8	0.721	CFM	216	288	360	433	505	577	721	865	1009
		NC	22	24	27	28	30	31	33	35	37
18 x 8	0.818	CFM	245	327	409	491	573	654	818	982	1145
		NC	21	24	26	28	30	31	33	35	36
20 x 8	0.915	CFM	274	366	457	549	640	732	915	1098	1281
		NC	21	24	26	28	29	31	33	35	36
24 x 8	1.109	CFM	333	444	555	665	776	887	1109	1331	1557
		NC	21	24	26	28	29	30	33	34	36
28 x 8	1.302	CFM	391	521	651	781	911	1042	1302	1562	1823
		NC	21	23	26	27	29	30	32	34	36
32 x 8	1.485	CFM	445	594	743	891	1039	1188	1485	1782	2079
		NC	20	23	25	27	29	30	32	34	35
36 x 8	1.679	CFM	504	672	840	1007	1175	1343	1679	2015	2351
		NC	20	23	25	27	28	30	32	34	35
40 x 8	1.873	CFM	562	749	936	1123	1311	1498	1873	2248	2622
		NC	20	23	25	27	28	29	32	33	35

Data Key :

- Air Flow : (CFM) ,Velocity : Feet per Minute (FPM) ,Throw : Feet (ft.) ,Pressure drop : Water Gauge (in.w.g) ,CFM : Cubic Feet per Minute (CFM)
- NC : Noise Criteria at 10db attenuation.
- A_r : Area Factor (Square Feet).

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ANA Egg Crate Grille Performance Data Model : NECG

Neck Size (inches)	Core Area (Sq. Ft.)	Core Velocity (fpm)	300	400	500	600	700	800	1000	1200	1400
		Velocity Pressure (in. w.g.)	.006	.010	.016	.022	.031	.040	.062	.090	.122
		Negative SP (in w.g.)	.016	.026	.042	.059	.082	.106	.165	.238	.323
48 x 8	2.250	CFM NC	675 19	900 22	1125 24	1350 26	1575 28	1800 29	2250 31	2700 33	3150 34
10 x 10	0.560	CFM NC	168 22	224 25	280 27	336 29	392 31	448 32	560 34	672 36	784 37
12 x 10	0.667	CFM NC	200 22	267 25	333 27	400 29	467 30	534 32	667 34	800 36	934 37
14 x 10	0.807	CFM NC	242 22	323 24	403 27	484 28	565 30	646 31	807 33	968 35	1130 37
16 x 10	0.926	CFM NC	278 21	370 24	463 26	556 28	648 30	741 31	926 33	1111 35	1296 36
18 x 10	1.054	CFM NC	316 21	422 24	527 26	632 28	738 29	843 31	1054 33	1265 35	1476 36
20 x 10	1.184	CFM NC	355 21	474 24	592 26	710 28	829 29	947 30	1184 33	1421 34	1658 36
24 x 10	1.421	CFM NC	426 20	568 23	710 25	853 27	995 29	1137 30	1421 32	1705 34	1989 35
28 x 10	1.658	CFM NC	497 20	663 23	829 25	995 27	1161 28	1326 30	1658 32	1990 34	2321 35
32 x 10	1.905	CFM NC	571 20	762 23	952 25	1143 27	1333 28	1524 30	1905 32	2286 34	2667 35
36 x 10	2.153	CFM NC	646 20	861 23	1076 25	1292 27	1507 28	1722 29	2153 32	2584 33	3014 35
40 x 10	2.400	CFM NC	720 <20	960 22	1200 24	1440 26	1680 28	1920 29	2400 31	2880 33	3360 34
48 x 10	2.885	CFM NC	865 <20	1154 22	1442 24	1731 26	2019 27	2308 29	2885 31	3462 32	4039 34
12 x 12	0.829	CFM NC	249 21	332 24	414 26	497 28	580 30	663 31	829 33	995 35	1161 36
14 x 12	0.979	CFM NC	294 21	392 24	489 26	587 28	685 29	783 31	979 33	1175 35	1371 36
16 x 12	1.130	CFM NC	339 21	452 24	565 26	678 28	791 29	904 30	1130 33	1356 34	1582 36
18 x 12	1.281	CFM NC	384 21	512 23	640 26	767 27	897 29	1025 30	1281 32	1537 34	1793 36
20 x 12	1.432	CFM NC	430 20	573 23	716 25	859 27	1002 29	1146 30	1432 32	1718 34	2005 35
24 x 12	1.733	CFM NC	520 20	693 23	866 25	1039 27	1213 28	1386 30	1733 32	2080 34	2426 35
28 x 12	2.034	CFM NC	610 20	814 23	1017 25	1220 27	1424 28	1627 29	2034 32	2441 33	2848 35
32 x 12	2.325	CFM NC	697 <20	930 22	1162 24	1395 26	1627 28	1860 29	2325 31	2790 33	3255 34
36 x 12	2.626	CFM NC	788 <20	1050 22	1313 24	1575 26	1838 27	2100 29	2626 31	3151 33	3676 34
40 x 12	2.928	CFM NC	878 <20	1171 22	1464 24	1757 26	2050 27	2342 29	2928 31	3514 32	4099 34
48 x 12	3.520	CFM NC	1056 <20	1408 21	1760 24	2112 25	2464 27	2816 28	3520 30	4224 32	4928 34
14 x 14	1.162	CFM NC	349 21	465 24	581 26	697 28	813 29	930 30	1162 33	1394 34	1627 36
16 x 14	1.335	CFM NC	400 21	534 23	667 26	801 27	934 29	1068 30	1335 32	1602 34	1869 36

Data Key :

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ANA Egg Crate Grille Performance Data

Model : NECG

Neck Size (inches)	Core Area (Sq. Ft.)	Core Velocity (fpm) Velocity Pressure (in. w.g.) Negative SP (in w.g.)	300	400	500	600	700	800	1000	1200	1400
			.006	.010	.016	.022	.031	.040	.062	.090	.122
			.016	.026	.042	.059	.082	.106	.165	.238	.323
18 x 14	1.507	CFM NC	452 20	603 23	753 25	904 27	1055 29	1206 30	1507 32	1808 34	2110 35
20 x 14	1.679	CFM NC	504 20	672 23	839 25	1007 27	1175 28	1343 30	1679 32	2015 34	2351 35
24 x 14	2.034	CFM NC	610 20	814 23	1017 25	1220 27	1424 28	1627 29	2034 32	2441 33	2848 35
28 x 14	2.390	CFM NC	717 <20	956 22	1195 24	1434 26	1673 28	1912 29	2390 31	2868 33	3346 34
32 x 14	2.745	CFM NC	823 <20	1098 22	1372 24	1647 26	1921 27	2196 29	2745 31	3294 33	3843 34
36 x 14	3.100	CFM NC	930 <20	1240 22	1550 24	1860 26	2170 27	2480 29	3100 31	3720 32	4340 34
40 x 14	3.455	CFM NC	1036 <20	1382 21	1727 24	2073 25	2418 27	2764 28	3455 30	4146 32	4837 34
48 x 14	4.155	CFM NC	1246 <20	1662 21	2077 23	2493 25	2908 27	3324 28	4155 30	4986 32	5817 33
16 x 16	1.539	CFM NC	462 20	616 23	769 25	923 27	1077 29	1231 30	1539 32	1847 34	2155 35
18 x 16	1.733	CFM NC	520 20	693 23	866 25	1040 27	1213 28	1386 30	1733 32	2080 34	2426 35
20 x 16	1.948	CFM NC	584 20	779 23	974 25	1169 27	1364 28	1558 29	1948 32	2338 33	2727 35
24 x 16	2.346	CFM NC	704 <20	938 22	1173 24	1408 26	1642 28	1877 29	2346 31	2815 33	3284 34
28 x 16	2.755	CFM NC	826 <20	1102 22	1377 24	1653 26	1928 27	2204 29	2755 31	3306 33	3857 34
32 x 16	3.165	CFM NC	945 <20	1266 22	1582 24	1899 26	2215 27	2532 29	3165 31	3798 32	4431 34
36 x 16	3.574	CFM NC	1072 <20	1430 21	1787 24	2144 25	2502 27	2859 28	3574 30	4289 32	5004 34
40 x 16	3.972	CFM NC	1192 <20	1589 21	1986 23	2383 25	2780 27	3178 28	3972 30	4766 32	5561 33
48 x 16	4.790	CFM NC	1437 <20	1916 21	2395 23	2874 25	3353 26	3832 28	4790 30	5748 32	6706 33
18 x 18	1.970	CFM NC	591 20	788 23	985 25	1182 27	1379 28	1576 29	1970 32	2364 33	2758 35
20 x 18	2.196	CFM NC	659 <20	878 22	1098 24	1318 26	1537 28	1757 29	2196 31	2635 33	3074 34
24 x 18	2.659	CFM NC	798 <20	1064 22	1330 24	1595 26	1861 27	2127 29	2659 31	3190 33	3723 34
28 x 18	3.121	CFM NC	936 <20	1248 22	1560 24	1873 26	2185 27	2497 29	3121 31	3745 32	4369 34
32 x 18	3.584	CFM NC	1075 <20	1434 21	1792 24	2150 25	2509 27	2867 28	3584 30	4301 32	5018 34
36 x 18	4.047	CFM NC	1214 <20	1619 21	2023 23	2428 25	2833 27	3238 28	4047 30	4856 32	5666 33
40 x 18	4.499	CFM NC	1350 <20	1800 21	2250 23	2700 25	3150 26	3600 28	4500 30	5400 32	6300 33
48 x 18	5.425	CFM NC	1627 <20	2170 21	2712 23	3255 24	3797 26	4340 27	5425 29	6510 31	7595 33
20 x 20	2.454	CFM NC	736 <20	982 22	1227 24	1472 26	1718 28	1963 29	2454 31	2945 33	3436 34

EGG CRATE GRILLE & REGISTER

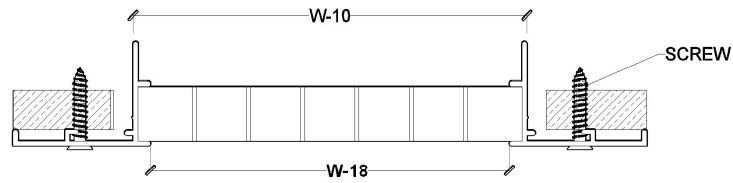
ANA Egg Crate Grille Performance Data

Model : NECG

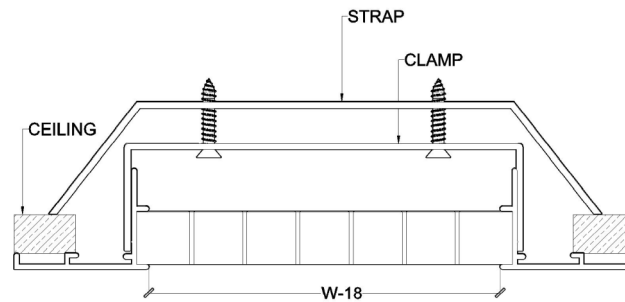
Neck Size (inches)	Core Area (Sq. Ft.)	Core Velocity (fpm)	300	400	500	600	700	800	1000	1200	1400
		Velocity Pressure (in. w.g.)	.006	.010	.016	.022	.031	.040	.062	.090	.122
		Negative SP (in w.g.)	.016	.026	.042	.059	.082	.106	.165	.238	.323
24 x 20	2.971	CFM NC	891 <20	1188 22	1485 24	1783 26	2078 27	2377 29	2971 31	3565 32	4159 34
28 x 20	3.487	CFM NC	1046 <20	1395 21	1743 23	2092 25	2441 27	2790 28	3487 30	4184 32	4882 33
32 x 20	4.004	CFM NC	1201 <20	1602 21	2002 23	2402 25	2803 27	3203 28	4004 30	4805 32	5605 33
36 x 20	4.510	CFM NC	1353 <20	1804 21	2255 23	2706 25	3157 26	3608 28	4510 30	5412 32	6314 33
40 x 20	5.027	CFM NC	1508 <20	2011 21	2513 23	3016 24	3519 26	4022 27	5027 29	6032 31	7038 33
48 x 20	6.060	CFM NC	1818 <20	2424 20	3030 22	3636 24	4242 26	4848 27	6060 29	7272 31	8484 33
24 x 24	3.595	CFM NC	1078 <20	1438 21	1797 24	2157 25	2516 27	2876 28	3595 30	4314 32	5033 34
28 x 24	4.219	CFM NC	1266 <20	1688 21	2109 23	2531 25	2953 27	3375 28	4219 30	5063 32	5907 33
32 x 24	4.833	CFM NC	1450 <20	1933 21	2416 23	2899 25	3383 26	3866 28	4833 30	5800 32	6766 33
36 x 24	5.457	CFM NC	1637 <20	2183 21	2728 23	3274 24	3820 26	4365 27	5457 29	6548 31	7640 33
40 x 24	6.081	CFM NC	1824 <20	2432 20	3040 22	3649 24	4257 26	4865 27	6081 29	7297 31	8513 33
48 x 24	7.330	CFM NC	2199 <20	2932 20	3665 22	4398 24	5131 26	5864 27	7330 29	8796 31	10,262 33
28 x 28	4.941	CFM NC	1482 <20	1976 21	2470 23	2965 25	3459 26	3953 28	4941 30	5929 32	6917 33
32 x 28	5.672	CFM NC	1702 <20	2269 21	2836 23	3403 24	3970 26	4538 27	5672 29	6806 31	7941 33
36 x 28	6.404	CFM NC	1921 <20	2562 20	3202 22	3842 24	4483 26	5123 27	6404 29	7685 31	8966 33
40 x 28	7.136	CFM NC	2141 <20	2854 20	3568 22	4282 24	4995 26	5709 27	7136 29	8563 31	9990 32
48 x 28	8.589	CFM NC	2577 <20	3436 <20	4294 21	5153 23	6012 25	6871 27	8589 29	10,307 31	12,025 32
32 x 32	6.512	CFM NC	1954 <20	2605 20	3256 22	3907 24	4558 26	5210 27	6512 29	7814 31	9117 32
36 x 32	7.352	CFM NC	2206 <20	2941 20	3676 22	4411 24	5146 26	5882 27	7352 29	8822 31	10,293 32
40 x 32	8.191	CFM NC	2457 <20	3276 <20	4095 22	4914 24	5734 26	6553 27	8191 29	9829 30	11,467 31
48 x 32	9.859	CFM NC	2958 <20	3943 <20	4929 22	5915 24	6901 26	7887 27	9859 29	11,831 30	13,803 31
36 x 36	8.299	CFM NC	2490 <20	3320 <20	4150 21	4980 23	5810 25	6640 27	8300 29	9960 31	11,620 32
40 x 36	9.235	CFM NC	2770 <20	3694 <20	4618 22	5541 24	6464 26	7388 27	9235 29	11,802 30	12,929 31
48 x 36	11.130	CFM NC	3339 <20	4452 <20	5565 22	6678 24	7791 26	8904 27	11,130 28	13,356 30	15,582 31
40 x 40	10.290	CFM NC	3087 <20	4116 <20	5145 22	6174 24	7203 26	8232 27	10,290 29	12,348 30	14,406 31
48 x 40	12.400	CFM NC	3720 <20	4960 <20	6200 22	7440 24	8680 26	9920 27	12,400 28	14,880 30	17,350 32
48 x 48	14.929	CFM NC	4479 <20	5972 <20	7464 21	8957 23	10,450 25	11,943 27	14,929 28	17,915 30	20,900 32

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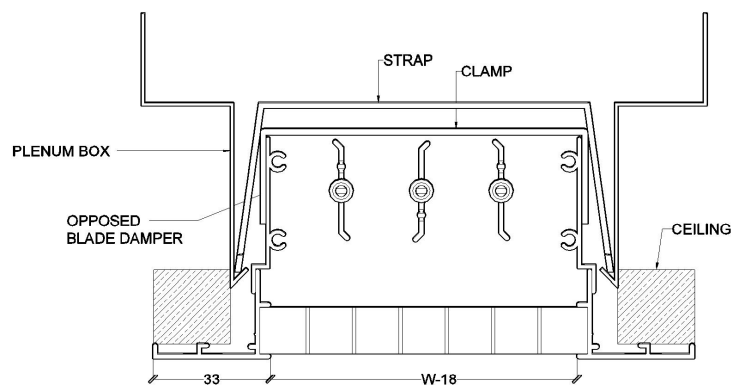
ANA Egg Crate Grille Installation



SCREW



CLAMP & STRAP



WITH PLENUM

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