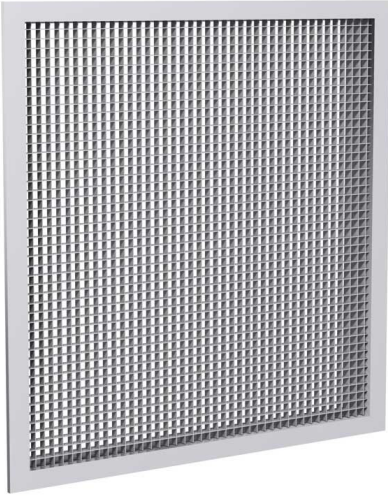




شركة مصنع عالم الناصريه المحدودة

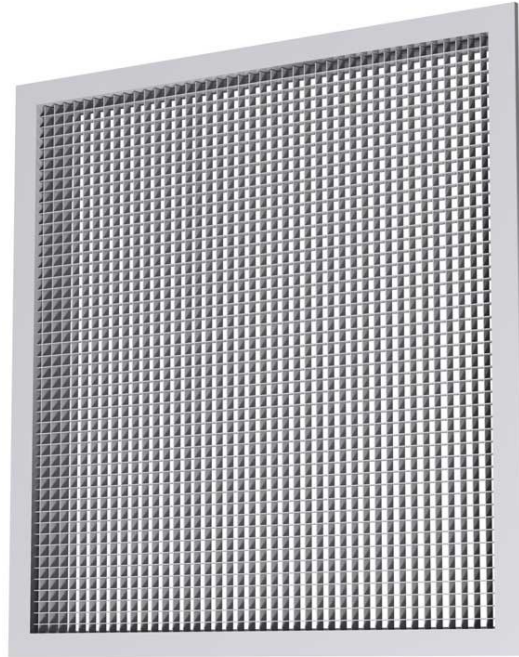
AL NASSERIAH WORLD FACTORY COMPANY LTD

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. Opposed Blade Damper **(RAL 9005)** type attached to the top side of the grille by rivets and operated by screw.

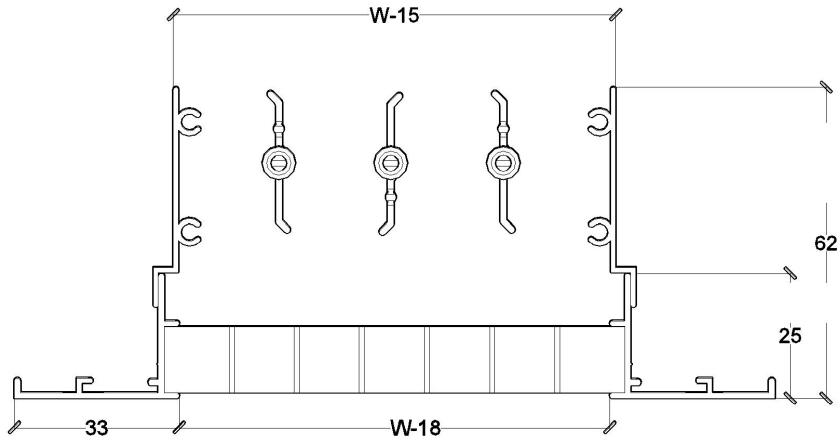
Finish :

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

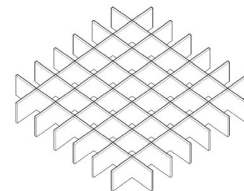
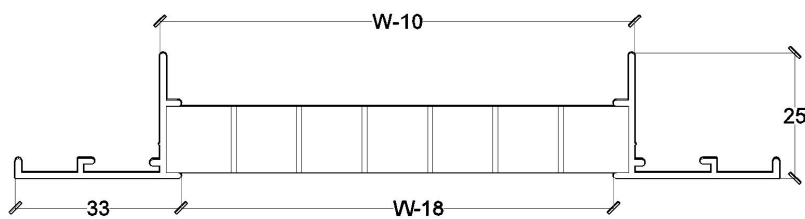
Model : NECGR



- 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)									
		Velocity Pressure (in. w.g.)									
		Negative SP (in w.g.)									
		300	400	500	600	700	800	1000	1200	1400	
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 : Area Factor (Square Feet).

EGG CRATE GRILLE & REGISTER

ANA Egg Crate Grille Performance Data

Model : NECC

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

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 : Area Factor (Square Feet).

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

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.
- Ar : Area Factor (Square Feet).

EGG CRATE GRILLE & REGISTER

ANA Egg Crate Grille Performance Data

Model : NECG

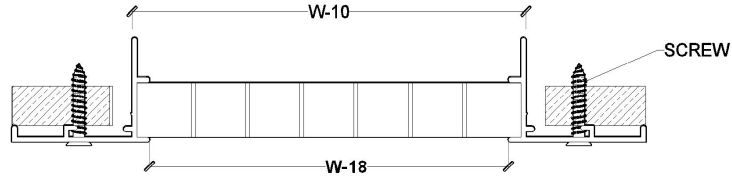
Neck Size (inches)	Core Area (Sq. Ft.)	Core Velocity (fpm)		300	400	500	600	700	800	1000	1200	1400
		Velocity Pressure (in. w.g.)		.006	.010	.016	.022	.031	.040	.062	.090	.122
		Negative SP (in w.g.)		.016	.026	.042	.059	.082	.106	.165	.238	.323
24 x 20	2.971	CFM		891	1188	1485	1783	2078	2377	2971	3565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

Data Key :

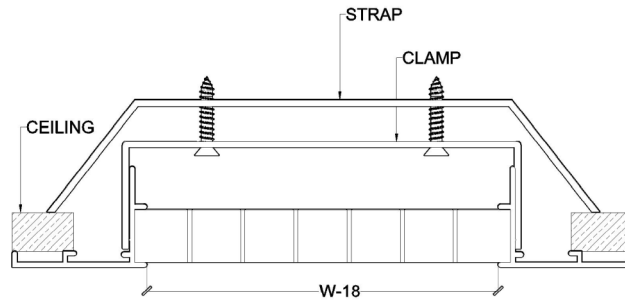
- Air Flow : (CFM) , Velocity : Feet per Minute (FPM) , Throw : Feet (ft.) , Pressure drop : Water Gauge (in.w.g) , CFM : Cubic Feet per Minute (CFM)
- NC : Noise Criteria at 10db attenuation.
- A : Area Factor (Square Feet).

EGG CRATE GRILLE & REGISTER

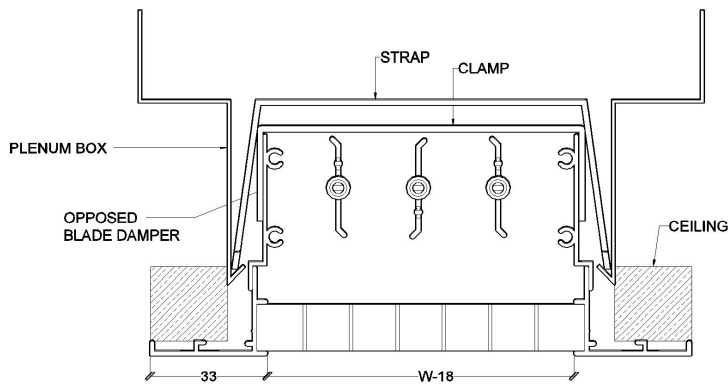
ANA Egg Crate Grille Installation



SCREW



CLAMP & STRAP



WITH PLENUM

