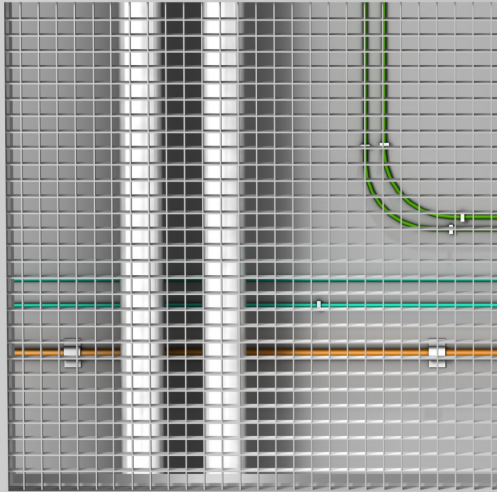


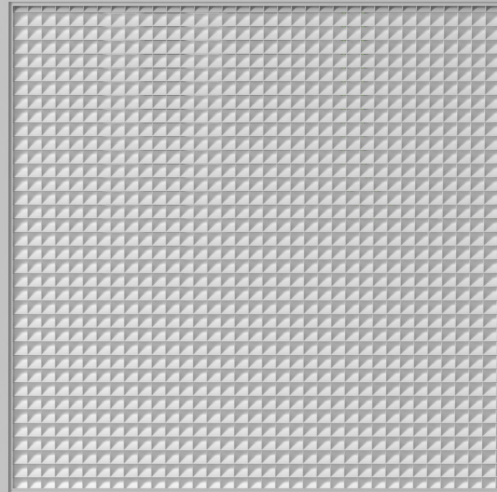
# 85 Series

## EGG CRATE RETURN GRILLE

The 85 series is a high-capacity return or exhaust outlet with a sight-resistant grille. The **45 degree angled core** allows this feature to fully conceal undesirable objects in the ceiling from occupant view.



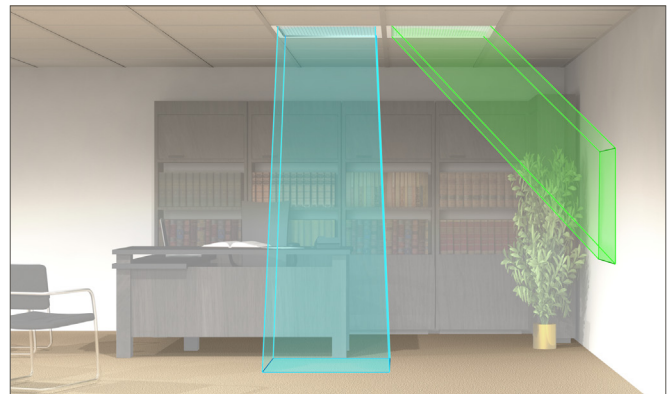
STANDARD EGG CRATE GRILLE



SIGHT-RESISTANT EGG CRATE GRILLE  
(85 SERIES)

When standing directly under a standard egg crate grille, cables and duct work can easily be seen, creating unsightly views (sight lines shown in blue).

The 85 Series egg crate return grille's deflection angle obstructs the occupant's sight line into the grille, adding an appealing aesthetic to the space (sight lines shown in green).



### OTHER FEATURES OF THE 85 SERIES:

- Low pressure drop and sound production
- Heavy gauge extruded aluminum borders and frame
- Ideal for pressurized ceiling returns or size restricted exhaust applications
- No light shield accessory or plenum required
- Durable white powder coat finish
- Available in various mounting styles

## Performance Data

Core Area sq. ft.	Nominal Size			Core Velocity Velocity Pressure Negative s.p.	100	200	300	400	500	600	700
					0.001 0.010	0.002 0.034	0.006 0.068	0.010 0.112	0.016 0.166	0.022 0.228	0.031 0.298
0.15	7x4			cfm	15	30	45	60	75	90	105
	6x5			NC	—	—	—	15	21	26	30
0.18	8x4	6x6		cfm	18	36	54	72	90	108	126
	7x5			NC	—	—	—	16	22	27	31
0.22	10x4	7x6		cfm	22	44	66	88	110	132	154
	8x5			NC	—	—	—	16	22	27	32
0.26	12x4	8x6		cfm	26	52	78	104	130	156	182
	10x5			NC	—	—	—	17	23	28	32
0.3	14x4			cfm	30	60	90	120	150	180	210
				NC	—	—	—	18	24	28	33
0.34	16x4	10x6		cfm	34	68	102	136	170	204	238
	12x5			NC	—	—	—	18	24	29	33
0.39	18x4	12x6		cfm	39	78	117	156	195	234	273
	14x5	8x8		NC	—	—	—	18	24	29	34
0.46	20x4	14x6		cfm	46	92	138	184	230	276	322
	16x5	10x8		NC	—	—	—	19	25	30	34
0.52	24x4	16x6		cfm	52	104	156	208	260	312	364
	18x5			NC	—	—	—	19	26	30	35
0.6	28x4	18x6	10x10	cfm	60	120	180	240	300	360	420
	20x5	12x8		NC	—	—	—	20	26	31	35
0.69	30x4	20x6	12x10	cfm	69	138	207	276	345	414	483
	24x5	14x8		NC	—	—	—	20	27	31	36
0.81	36x4	22x6	14x10	cfm	81	162	243	324	405	486	567
	28x5	16x8		NC	—	—	—	21	27	32	36
0.9	40x4	26x6	16x10	cfm	90	180	270	360	450	540	630
	30x5	18x8	12x12	NC	—	—	—	21	27	32	37
1.07	48x4	30x6	14x12	cfm	107	214	321	428	535	642	749
	36x5	18x10		NC	—	—	—	22	28	33	37
1.18	34x6	20x10	14x14	cfm	118	236	354	472	590	708	826
	24x8	16x12		NC	—	—	—	22	28	33	38
1.34	60x4	36x6	18x12	cfm	134	268	402	536	670	804	938
	48x5	22x10	16x14	NC	—	—	15	23	29	34	38
1.6	72x4	24x10	18x14	cfm	160	320	480	640	800	960	1120
	30x8	22x12	16x16	NC	—	—	16	23	30	34	39
1.8	60x5	36x8	24x12	18x16	cfm	180	360	540	720	900	1080
	48x6	30x10	20x14		NC	—	—	16	24	30	35
2.08	72x5	40x8	30x12	20x16	cfm	208	416	624	832	1040	1248
	60x6	36x10	24x14	18x18	NC	—	—	17	24	30	35
2.45	72x6	32x12	24x16		cfm	245	490	735	980	1225	1470
	48x8	26x14	20x18		NC	—	—	17	25	31	36
2.78	36x12	26x16	22x20		cfm	278	556	834	1112	1390	1668
	30x14	24x18			NC	—	—	18	25	32	36
3.11	60x8	40x12	30x16	22x22	cfm	311	622	933	1244	1555	1866
	48x10	36x14	26x18		NC	—	—	18	26	32	37
3.61	72x8	48x12	30x18		cfm	361	722	1083	1444	1805	2166
	60x10	36x16	24x24		NC	—	—	19	26	32	37
4.29	48x14	32x20			cfm	429	858	1287	1716	2145	2574
	36x18	28x24			NC	—	—	19	27	33	38
4.65	72x10	36x20			cfm	465	930	1395	1860	2325	2790
	48x16	30x24			NC	—	—	20	27	33	38
5.58	72x12	48x18			cfm	558	1116	1674	2232	2790	3348
	60x14	36x24			NC	—	—	20	28	34	39
6.25	72x14	48x20			cfm	625	1250	1875	2500	3125	3750
	60x16	30x30			NC	—	—	21	28	34	39

### Performance Notes

1. Tested in accordance with ASHRAE Standard 70-2006, *Method of Testing for Rating the Performance of Air Outlets and Inlets*.
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. NC values are based on room absorption of 10 dB re 10<sup>-12</sup> watts and one grille.
5. Blanks (—) indicate an NC level below 15.