

INTRODUCTION

EGCX egg crate return grilles are designed to fit common commercial applications where the architect requires a completely sightproof return grille without bars on the face. The EGCX offers a 1/2"x1/2"x1" sight-proof aluminum cube core and 1 1/4" flange. Its unique cube core design allows for a sightproof grille regardless of mounting orientation or patron position relative to grille.

MODELS

EGCX - Completely sightproof egg-crate return grille

FEATURES

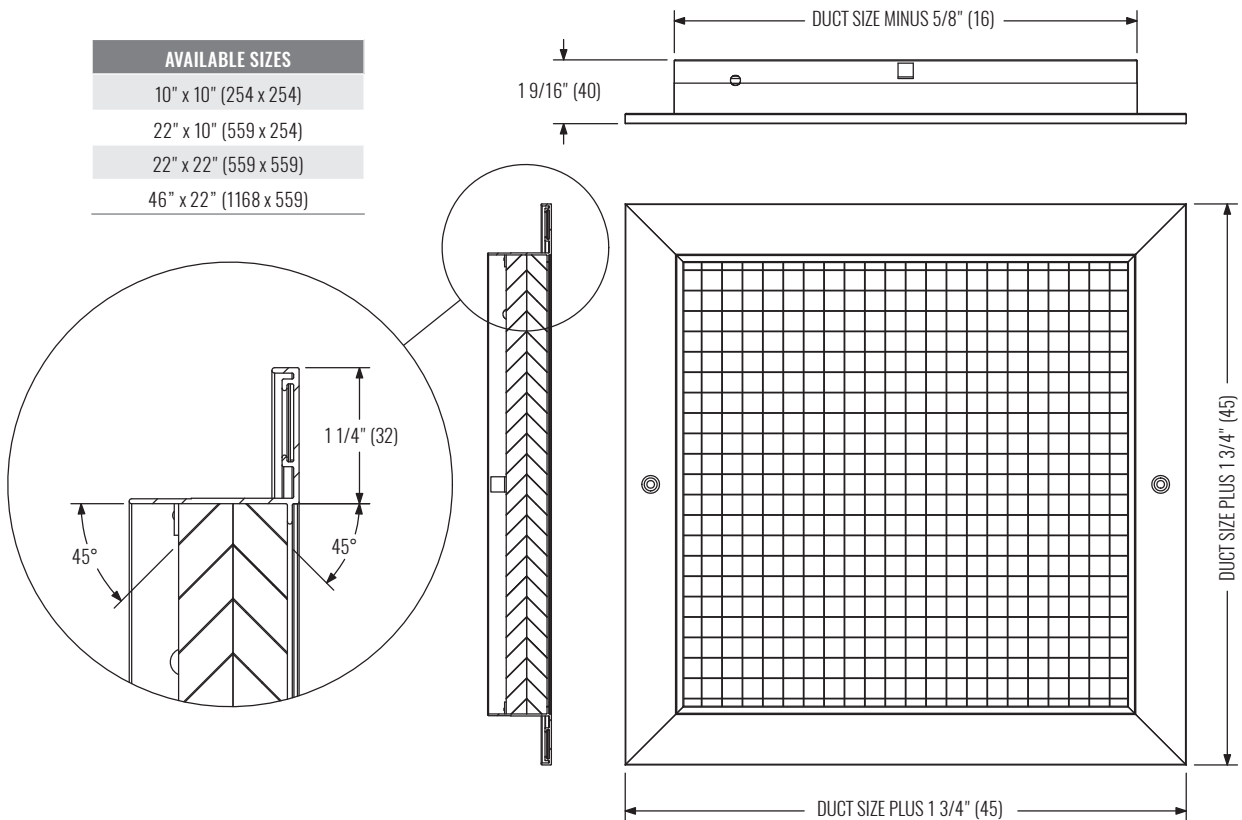
- 1/2"x1/2"x1" sightproof aluminum cube core
- 1 1/4" flange
- Standard finish is #44 British White
- Optional finishes available

ACCESSORIES

- Aluminum plaster frame (model 58PF)
- Insect or debris screens
- Square to round adapter (model SRAC325, ordered separately)

DIMENSIONAL DATA

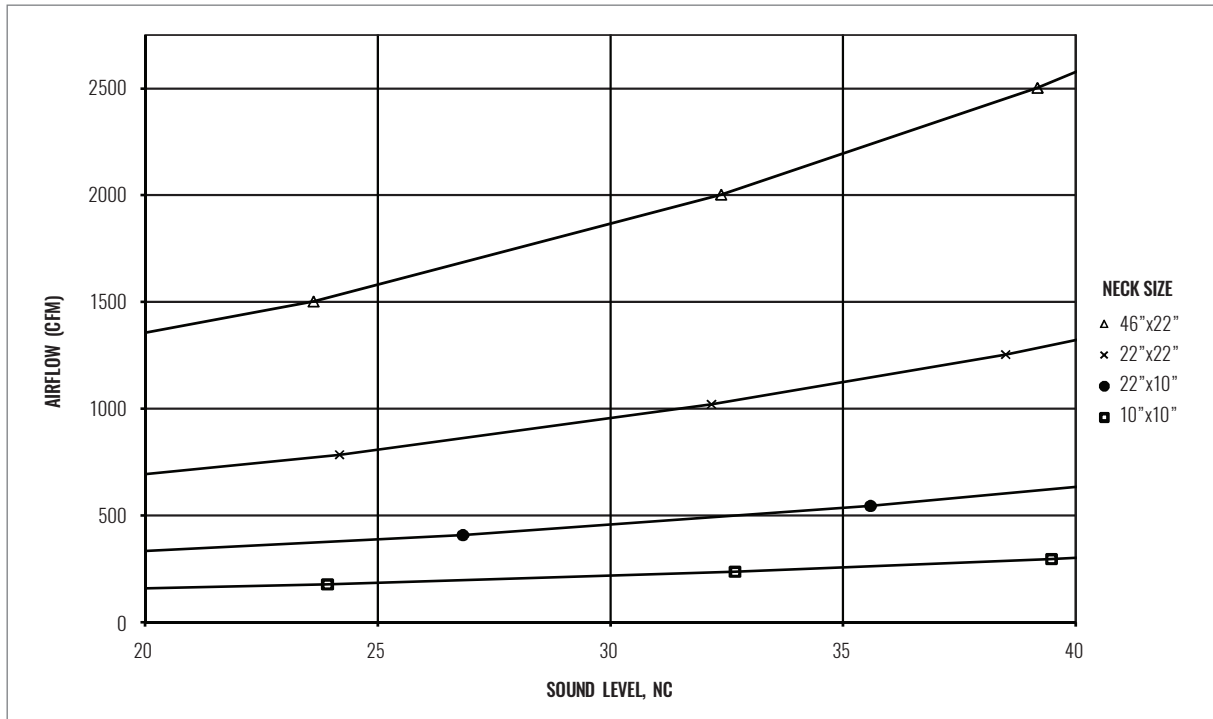
AVAILABLE SIZES
10" x 10" (254 x 254)
22" x 10" (559 x 254)
22" x 22" (559 x 559)
46" x 22" (1168 x 559)



NOTE: Dimensions in parentheses are mm.

FACE, SIDE, AND CROSS SECTION VIEWS

SOUND CHART (NO DAMPER)



PERFORMANCE DATA (NO DAMPER)

		IP DATA				NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	NOM DUCT		DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7		
in	ft ²	FPM	CFM	"WG	mm	m ²	m/s	L/s	Pa									
10" x 10"	0.69	200	119	-0.46	12	254 x 254	0.06	1.02	56	-11.5	32	27	27	24	18	-		
		300	178	-1.04	24			1.52	84	-25.9	36	34	36	35	32	28		
		400	238	-1.85	33			2.03	112	-46.0	39	39	43	43	43	40		
		500	297	-2.89	39			2.54	140	-71.9	41	42	48	49	51	50		
		600	357	-4.16	45			3.05	168	-103.5	43	45	52	54	58	59		
22" x 10"	1.53	200	273	-0.46	14	559 x 254	0.14	1.02	129	-11.5	36	32	30	27	20	11		
		300	410	-1.04	27			1.52	193	-25.9	40	38	39	38	35	30		
		400	546	-1.85	36			2.03	258	-46.0	43	43	46	46	46	42		
		500	683	-2.89	42			2.54	322	-71.9	45	47	51	52	54	52		
		600	819	-4.16	48			3.05	387	-103.5	46	50	55	57	60	60		
22" x 22"	3.36	175	549	-0.35	13	559 x 559	0.31	0.89	259	-8.8	38	34	30	26	18	-		
		250	784	-0.72	24			1.27	370	-18.0	41	40	38	36	31	23		
		325	1019	-1.22	32			1.65	481	-30.4	44	44	44	43	41	35		
		400	1254	-1.85	38			2.03	592	-46.0	46	48	49	49	48	44		
		475	1490	-2.61	44			2.41	703	-64.9	48	50	53	54	55	52		
46" x 22"	7.03	150	1002	-0.26	11	1168 x 559	0.65	0.76	473	-6.5	40	35	29	25	15	-		
		225	1502	-0.58	24			1.14	709	-14.6	44	42	39	36	30	20		
		300	2003	-1.04	32			1.52	945	-25.9	46	47	45	44	40	33		
		375	2504	-1.62	39			1.91	1182	-40.4	48	50	51	50	49	43		
		450	3005	-2.34	45			2.29	1418	-58.2	50	53	55	55	55	51		

NOTES: NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741.

ENGINEERING SPECIFICATION & CONFIGURATION

EGCX

The return grille shall be Krueger model EGX. This grille must have a sightproof core. The frame of the grille must be constructed of extruded aluminum with a thickness of 0.04" - 0.05" and countersunk screw holes. This frame must also produce a border of 1 1/4" around all sides of the grille with mitered corners that are mechanically staked for rigidity.

PERFORMANCE

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

FINISH

The paint finish shall be #44 British White applied by an anodic electrocoating process. This process shall include washing, rinsing, applying iron phosphate, sealing and rinsing again. While hanging from an anodic hook, the product will then be dipped into a high performance electrocoating dip. Then the product shall be forced air dried and baked to a peak temperature of 350°F until cured. The overall process shall result to the following film properties: a film thickness of 0.8 - 1.0 mils, gloss at 60° per ASTM D523-89 of 50 - 85%, pencil hardness per ASTM D3363-92A of HB - H, crosshatch adhesion per ASTM D3359-83 of 4B - 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours.

- 1. SERIES: (XXXX)**
EGCX - 1/2"x1/2"x1" 45° angle aluminum cube core return grille with 1 1/4" flange
- 2. WIDTH: (XX) ***
10", 22", or 46" only
- 3. HEIGHT: (XX) ***
10" or 22" only
- 4. FRAME STYLE: (XXX)**
F22 - Surface mount
- 5. PANEL: (XXX)**
00 - No panel
- 6. FASTENING: (XXX)**
00 - No screw holes
01 - Standard screw holes
- 7. DAMPER: (XX)**
00 - No damper
- 8. ACCESSORIES: (XX) (XX) (XX)**
00 - No accessories
01 - Aluminum plaster frame (58PF)
DS - Debris screen (1/4" mesh)
IS - Insect screen (1/16" mesh)
- 9. FINISH: (XX)**
01 - Mill
10 - Alumican
35 - Black
44 - British White

* Only available in 10"x10", 22"x10", 22"x22", or 46"x22" sizes.