

## PERFORMANCE DATA:

### SIGHT-PROOF EGGCRATE RETURN AND EXHAUST GRILLES AND REGISTERS • 5100

#### MODEL: 51EC45

Listed Duct Size (inches)	Nominal Duct Area (sq. ft.)	Duct Velocity, FPM Velocity Pressure Neg. Static Pressure	200	250	300	350	400	450	500	550	600	650
			.002 .016	.004 .025	.006 .037	.008 .050	.010 .065	.013 .082	.016 .101	.019 .123	.022 .146	.026 .171
10 x 10	0.69	Airflow, CFM	139	174	208	243	278	313	347	382	417	451
		Noise Criteria	–	–	16	20	24	27	30	33	35	37
22 x 10	1.53	Airflow, CFM	306	382	458	535	611	688	764	840	917	993
		Noise Criteria	–	–	18	22	26	30	33	36	38	41
22 x 22	3.36	Airflow, CFM	672	840	1008	1176	1344	1513	1681	1849	2017	2185
		Noise Criteria	–	16	22	27	31	34	38	41	43	46
46 x 22	7.03	Airflow, CFM	1406	1757	2108	2460	2811	3163	3514	3865	4217	4568
		Noise Criteria	21	26	30	34	37	40	42	45	47	49

#### Performance Notes:

1. All pressures are in inches w.g..
2. Core Velocity is in feet per minute.
3. Performance data is for grille tested without damper. Apply the following correction factors for addition of opposed blade damper to grille.

**Neg. Static Pressure** Listed Value x 1.10.

**Noise Criteria** Add 5 dB to listed value.

4. Noise Criteria (NC) values are based on a room absorption of 10 dB, re 10<sup>-12</sup> watts. Dash (–) in space denotes a Noise Criteria level of less than 15.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.