

Overview

12 Months Warranty

MANUFACTURED RANGE EGGCRATE GRILLES

Description

Suitable for handling large air volumes, eggcrate grilles are ideal as intakes to air handling units, and for areas where high changeover rates are required. A 90% free area makes eggcrate grilles the most efficient grilles available for return air applications.

Construction

The frame is manufactured from extruded aluminium with hairline mitred joints mechanically held, while the core is held in by the unique frame design. The core is aluminium and can be offered as either fixed, loose, removable or hinged. Eggcrates are powder coated white as standard. Matching Opposed Blade Dampers are also available constructed from extruded aluminium.

PRODUCT CODE	DESCRIPTION
EG	Fixed Core Eggcrate Grille
LCEG	Loose Core Eggcrate Grille
RCEG	Removable Core Eggcrate Grille
HERAG	Hinged Core Eggcrate Grille with filter

Note:

- Made to order, custom sizes and colours are available
- Stocked sizes are available, see pages 40 - 47
- [For product performance data, see pages 320 - 321](#)



QAE strive to provide products that best suit the market's requirements. As such, QAE reserve the right to supply products which may differ slightly from those shown in this and other publications. For product warranties please refer to our standard terms and conditions.

Fixed Core Eggcrate: EG

FACE SIZE "Y"

FACE SIZE "X"

5mm

20mm

34mm

FACE SIZE = NOMINAL NECK + 38mm

EXACT NECK = NOMINAL NECK - 10mm

NOMINAL NECK

FIELDS REQUIRED PRIOR TO ORDERING	
Quantity	
Width (W)	
Height (H)	
Exact Neck Size	Choose One
Nominal Neck/ Cut Out Size	
Face Size	
White	Choose One
Natural Anodised	
Special Colour	
Mill Finish	

Loose Core Eggcrate: LCEG

FACE SIZE "Y"

FACE SIZE "X"

4mm

27mm

30mm

25mm

FACE SIZE = NOMINAL NECK + 37mm

EXACT NECK = NOMINAL NECK - 10mm

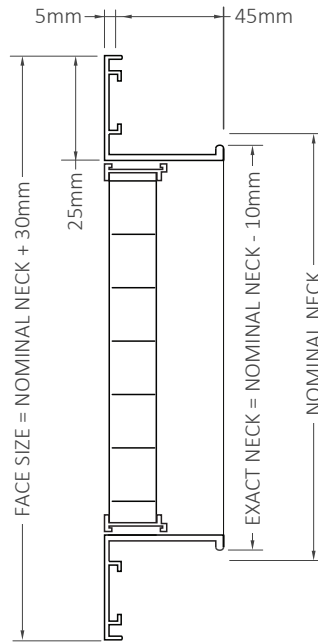
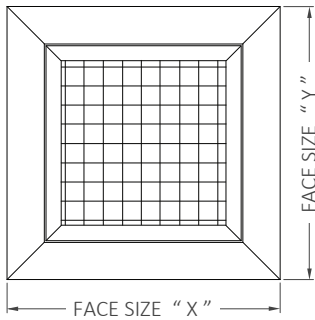
NOMINAL NECK

FIELDS REQUIRED PRIOR TO ORDERING	
Quantity	
Width (W)	
Height (H)	
Exact Neck Size	Choose One
Nominal Neck/ Cut Out Size	
Face Size	
White	Choose One
Natural Anodised	
Special Colour	
Mill Finish	

Related Products for Fixed/Loose/Removable Core Eggcrate Grilles

CB	OBD	FCE	RN	ALPBF	ALPBM
see pg.267	see pg.127	see pg.276	see pg.276	see pg.226	see pg.227

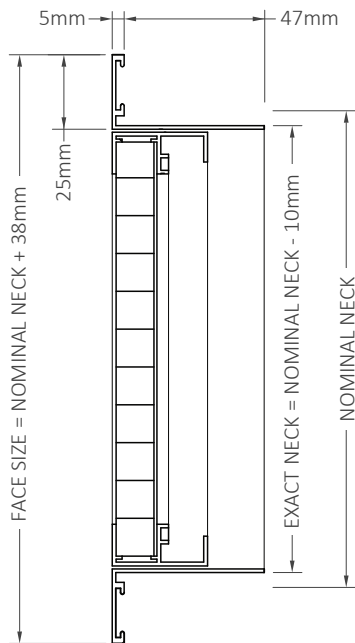
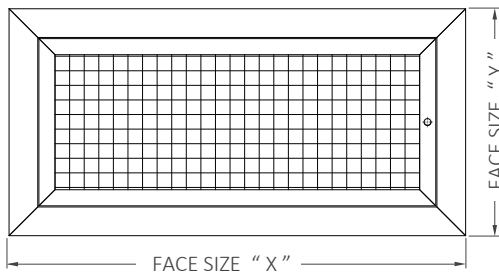
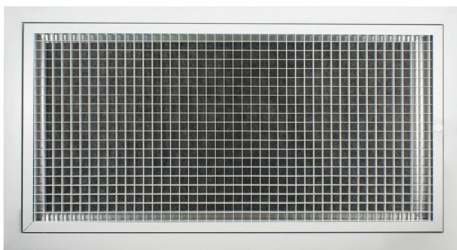
Removable Core Eggcrate: RCEG



FIELDS REQUIRED PRIOR TO ORDERING

Quantity	
Width (W)	
Height (H)	
Exact Neck Size	Choose One
Nominal Neck/ Cut Out Size	
Face Size	Choose One
Wall Mount (No Knobs)	
Ceiling Mount (May Require Knobs)	Choose One
White	
Natural Anodised	
Special Colour	Choose One
Mill Finish	

Hinged Core Eggcrate: HERAG



FIELDS REQUIRED PRIOR TO ORDERING

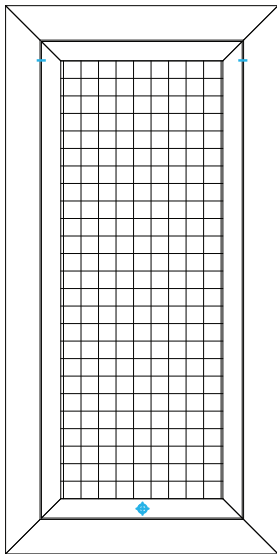
Quantity	
Width (W)	
Height (H)	
Exact Neck Size	Choose One
Nominal Neck/ Cut Out Size	
Face Size	Choose One
With Filter	
Without Filter	Choose One
White	
Natural Anodised	
Special Colour	Choose One
Mill Finish	

Related Products for Hinged Eggcrate Grilles c/w Filter

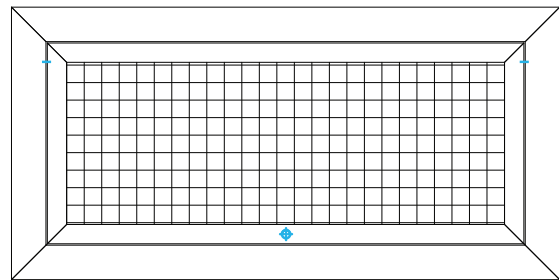
RAB	RABS	ALPBF	ALPBM
see pg.263	see pg.263	see pg.226	see pg.227

Filter Media and HERAG Additional Informations

When ordering please take note:



As a standard, knobs are located on the short side
Except for HERAG's over 1200 wide



Alternatively, if required, knobs can be located on the long side
(need to specify at the time of order)

Filters (11 mm Thick)

Product Code	Perimeter
FILTER800	0 - 800
FILTER1800	801 - 1800
FILTER2400	1801 - 2400
FILTER3440	2401 - 3440

***Electrostatic Filter also available ***



HERAG in application

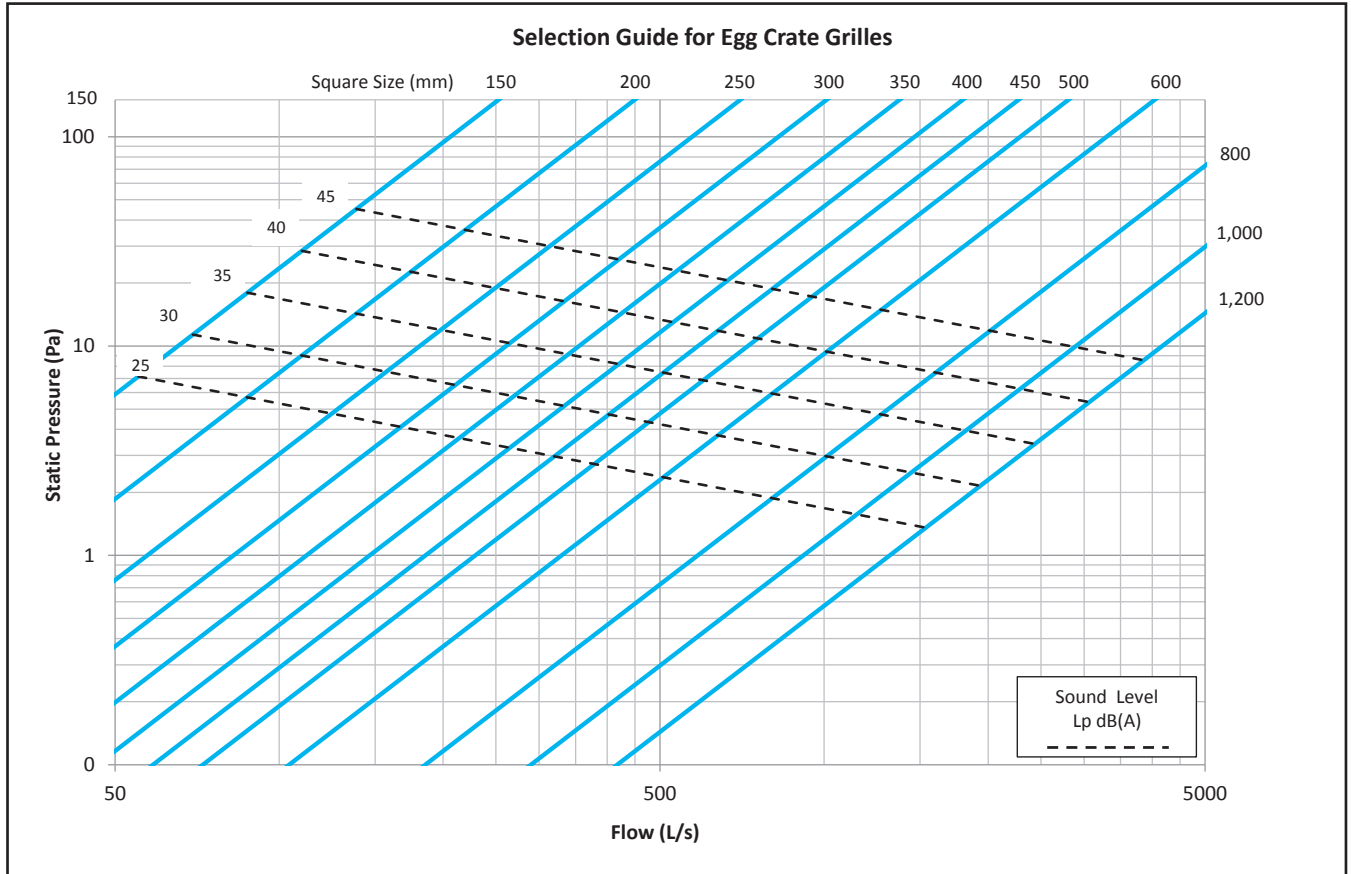
Eggcrate Grilles: EG/LCEG/RCEG/HERAG

Test Condition:

Data is based on Isothermal conditions with the grille installed into a ceiling at height of 2.7m from the floor level. Noise ratings are based on a room absorption level of 10db. Data is based on grilles without additional filters

Note:

- The free area of the eggcrate grilles > 90% of the nominal area providing maximum airflow & very low noise levels
- Please refer to the table “Comparing noise Criteria” on page no. 297 when evaluating “Sound Level db(A)”.



These graphs are for selection only and should not be used for commissioning.

Eggcrate Grilles: EG/LCEG/RCEG/HERAG

Nominal Neck (mm)		Equivalent Sizes	Core Area	Face Velocity (m/s)	1.5	2	2.5	3	3.5	4	5	6
Width	Height	(mm)	(m ²)	Static Pressure (Pa)	2	4	6	9	12	15	24	35
150	150	225x100	0.020	Flow Rate (L/s)	30	41	51	61	71	81	101	122
				Sound Level dB(A)	<20	<20	24	28	31	34	39	43
200	150	"250x125 300x100"	0.027	Flow Rate (L/s)	41	54	68	81	95	108	135	162
				Sound Level dB(A)	<20	20	25	29	33	35	40	44
250	150	"300x125 400x100"	0.034	Flow Rate (L/s)	51	68	84	101	118	135	169	203
				Sound Level dB(A)	<20	21	26	30	33	36	41	45
200	200	350x125	0.036	Flow Rate (L/s)	54	72	90	108	126	144	180	216
				Sound Level dB(A)	<20	22	26	30	34	37	42	45
300	150	450x100	0.041	Flow Rate (L/s)	61	81	101	122	142	162	203	243
				Sound Level dB(A)	<20	22	27	31	34	37	42	46
300	200	"400x150 600x100"	0.054	Flow Rate (L/s)	81	108	135	162	189	216	270	324
				Sound Level dB(A)	<20	23	28	32	36	38	43	47
250	250	"350x175 650x100"	0.056	Flow Rate (L/s)	84	113	141	169	197	225	281	338
				Sound Level dB(A)	<20	24	28	32	36	39	43	47
450	150	"350x200 750x100 700x100"	0.061	Flow Rate (L/s)	91	122	152	182	213	243	304	365
				Sound Level dB(A)	<20	24	29	33	36	39	44	48
300	250	"400x200 500x200 600x125"	0.068	Flow Rate (L/s)	101	135	169	203	236	270	338	405
				Sound Level dB(A)	<20	24	29	33	36	39	44	48
300	300	"350x250 600x150 450x200 950x100"	0.081	Flow Rate (L/s)	122	162	203	243	284	324	405	486
				Sound Level dB(A)	<20	25	30	34	37	40	45	49
350	350	"400x300 600x200 500x250 850x150"	0.110	Flow Rate (L/s)	165	221	276	331	386	441	551	662
				Sound Level dB(A)	20	26	31	35	39	42	46	50
450	300	"400x350 700x200 550x250 950x150"	0.122	Flow Rate (L/s)	182	243	304	365	425	486	608	729
				Sound Level dB(A)	21	27	32	36	39	42	47	51
600	250	"500x300 750x200"	0.135	Flow Rate (L/s)	203	270	338	405	473	540	675	810
				Sound Level dB(A)	21	27	32	36	40	42	47	51
400	400	"400x350 750x200 550x300"	0.144	Flow Rate (L/s)	216	288	360	432	504	576	720	864
				Sound Level dB(A)	21	28	32	36	40	43	48	51
600	300	"450x400 750x250 500x350 900x200"	0.162	Flow Rate (L/s)	243	324	405	486	567	648	810	972
				Sound Level dB(A)	22	28	33	37	40	43	48	52
450	450	"500x400 700x300 600x350 800x250"	0.182	Flow Rate (L/s)	273	365	456	547	638	729	911	1094
				Sound Level dB(A)	22	29	34	37	41	44	49	53
750	300	"500x450 650x350 550x400 900x250"	0.203	Flow Rate (L/s)	304	405	506	608	709	810	1013	1215
				Sound Level dB(A)	23	29	34	38	41	44	49	53
500	500	"600x450 750x350 650x400 900x300"	0.225	Flow Rate (L/s)	338	450	563	675	788	900	1125	1350
				Sound Level dB(A)	23	30	34	38	42	45	49	53
550	550	"600x500 750x400 650x450 900x350"	0.272	Flow Rate (L/s)	408	545	681	817	953	1089	1361	1634
				Sound Level dB(A)	24	30	35	39	43	45	50	54
750	450	"600x550 1000x350 850x400"	0.304	Flow Rate (L/s)	456	608	759	911	1063	1215	1519	1823
				Sound Level dB(A)	25	31	36	40	43	46	51	55
600	600	"650x550 800x450 700x500 900x400"	0.324	Flow Rate (L/s)	486	648	810	972	1134	1296	1620	1944
				Sound Level dB(A)	25	31	36	40	43	46	51	55
900	450	"800x500 1150x350 1000x400"	0.365	Flow Rate (L/s)	547	729	911	1094	1276	1458	1823	2187
				Sound Level dB(A)	25	32	37	40	44	47	52	56
650	650	"700x600 1200x350"	0.380	Flow Rate (L/s)	570	761	951	1141	1331	1521	1901	2282
				Sound Level dB(A)	26	32	37	41	44	47	52	56
750	600	"700x650 900x500 800x550 1000x450"	0.405	Flow Rate (L/s)	608	810	1013	1215	1418	1620	2025	2430
				Sound Level dB(A)	26	32	37	41	44	47	52	56
700	700	"750x650 1000x500 850x550"	0.441	Flow Rate (L/s)	662	882	1103	1323	1544	1764	2205	2646
				Sound Level dB(A)	26	32	37	41	45	48	52	56
900	600	"750x700 1100x500 1000x550"	0.486	Flow Rate (L/s)	729	972	1215	1458	1701	1944	2430	2916
				Sound Level dB(A)	27	33	38	42	45	48	53	57
750	750	"850x650 1200x500 950x600"	0.506	Flow Rate (L/s)	759	1013	1266	1519	1772	2025	2531	3038
				Sound Level dB(A)	27	33	38	42	45	48	53	57
800	800	"900x700 1200x600 1000x650"	0.576	Flow Rate (L/s)	864	1152	1440	1728	2016	2304	2880	3456
				Sound Level dB(A)	27	34	39	42	46	49	54	58
900	900	"950x850 1200x650 1000x750"	0.729	Flow Rate (L/s)	1094	1458	1823	2187	2552	2916	3645	4374
				Sound Level dB(A)	28	35	40	43	47	50	55	59