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AERAX

Egg crate grilles

EC
ECLC
ECRC
ECHC
ECHF
ECLCNA
ECLCNAD
ECFC

ECA
ECALC
ECARC
ECAHC
ECAHF
ECAFC

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PRODUCT DATA SHEET

1 YR WARRANTY

EGG CRATE GRILLES

Overview

The EC series of egg crate grilles are designed for use in exhaust or return air applications in ceilings or walls. The grilles are manufactured from aluminium and use a 13mm x 13mm aluminium egg crate. The egg crate grid provides approximately 90% free area allowing for maximum air flows with low noise levels. The ECHF range of egg crate grilles come standard with filters and are hinged to allow for easy access. The filter medium is designed to trap the smallest particles while creating minimal air flow resistance. Standard colour is RAL9016. Other colours available upon request, contact your local dealer.

ECLC
Egg crate loose core

ECRC
Egg crate removable core

ECHC
Egg crate hinged core

ECHF
Egg crate hinged core and filter

ECLCNA
Egg crate loose core with neck adaptor & fixing clips

ECLCNAD
Egg crate loose core with neck adaptor, damper & fixing clips

ECFC
Egg crate fixed core

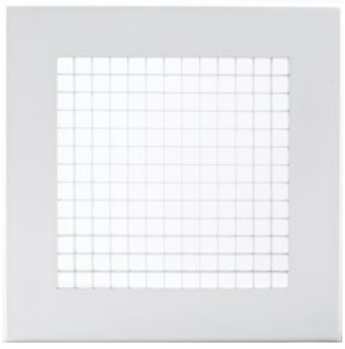
ECALC
Angled egg crate loose core

ECARC
Angled egg crate removable core

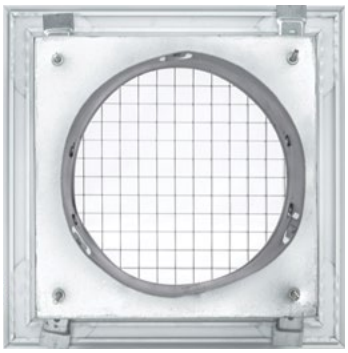
ECAHC
Angled egg crate hinged core

ECAHF
Angled egg crate hinged core & filter

ECAFC
Angled egg crate fixed core



Front view



Rear view

Side view

Side perspective

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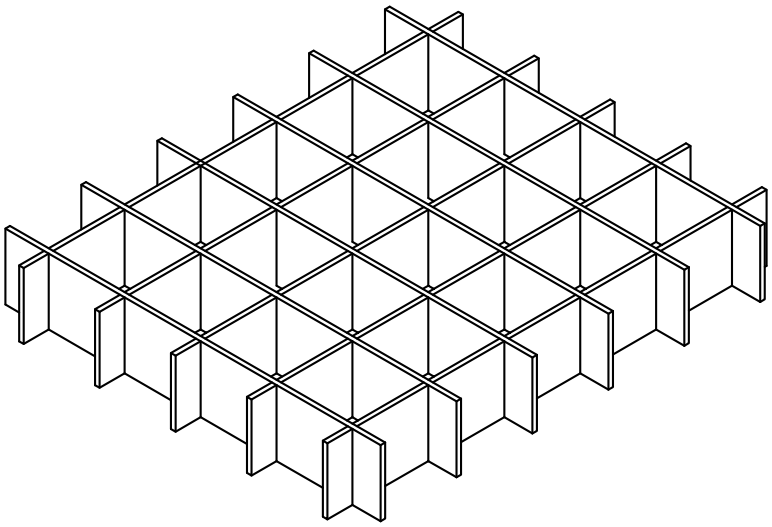
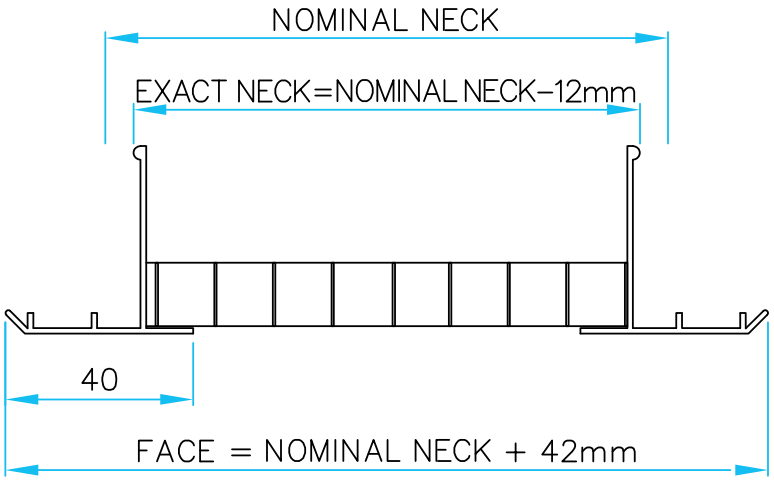
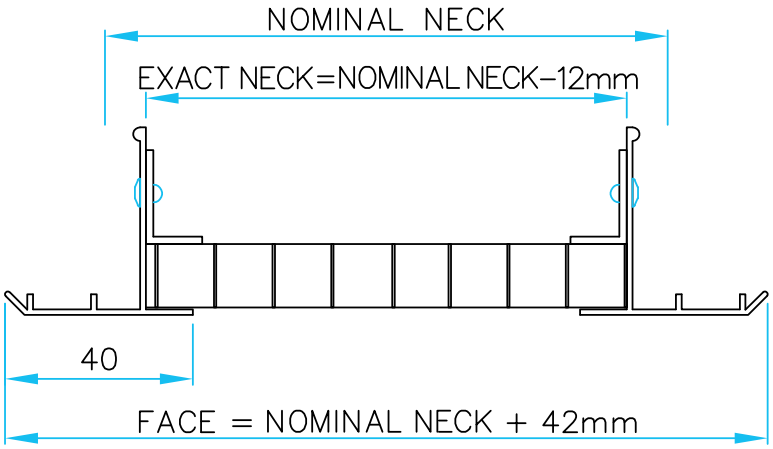


STANDARD EGG CRATE



ECLC
LOOSE CORE EGG CRATE



ECFC
FIXED CORE EGG CRATE

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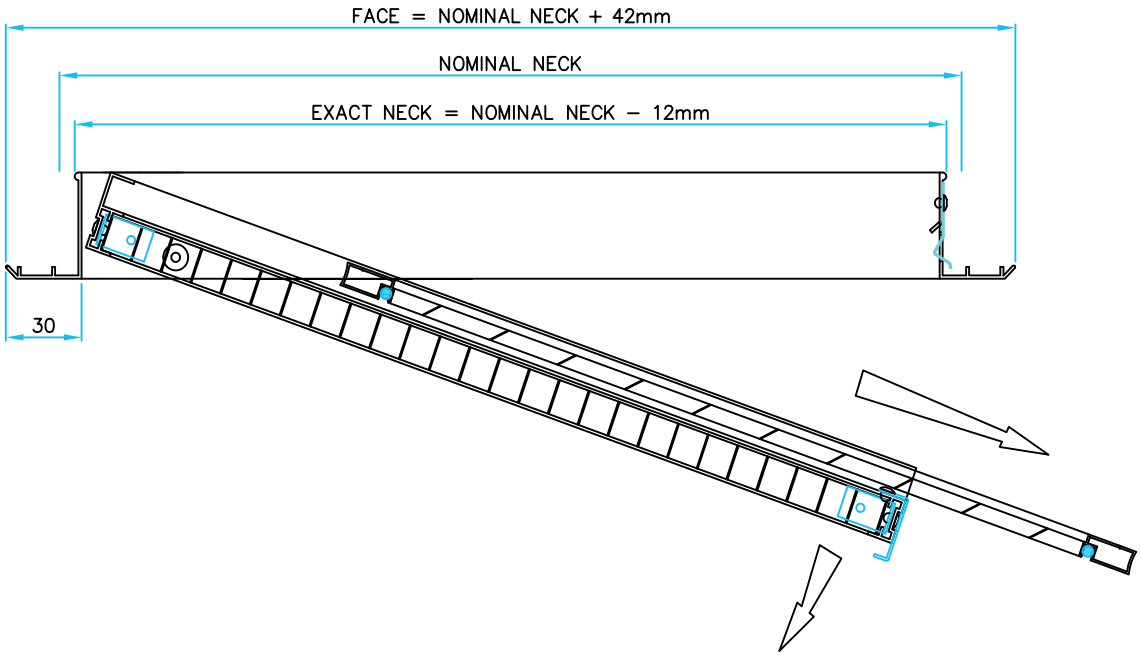
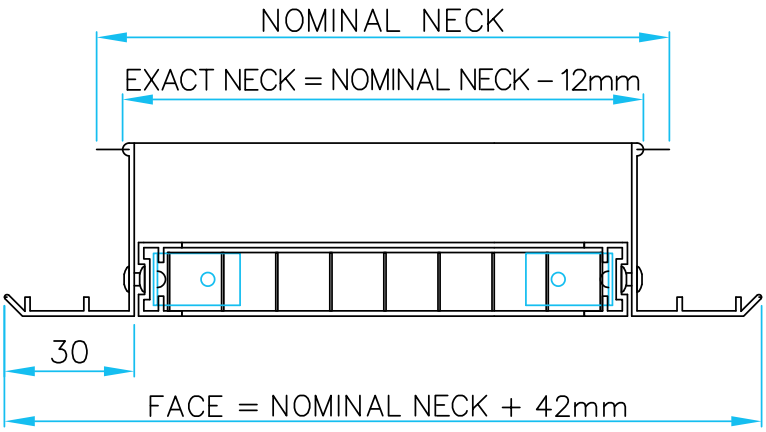


ECHF
HINGED FILTER EGG CRATE
NOTE: HINGED ON THE SHORTER SIDE (Y)



ECRC
REMOVABLE CORE EGG CRATE

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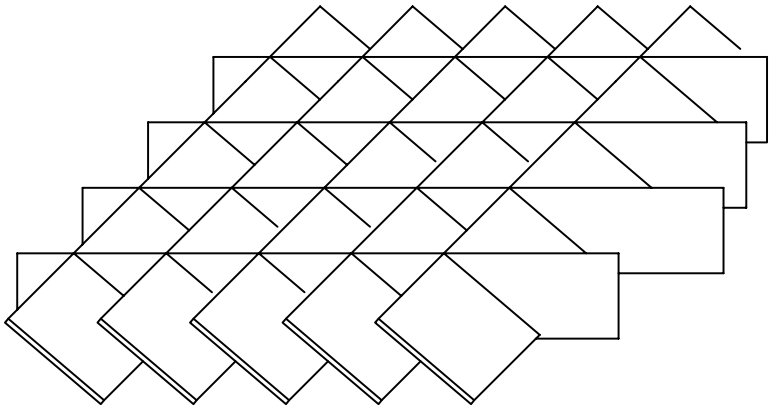
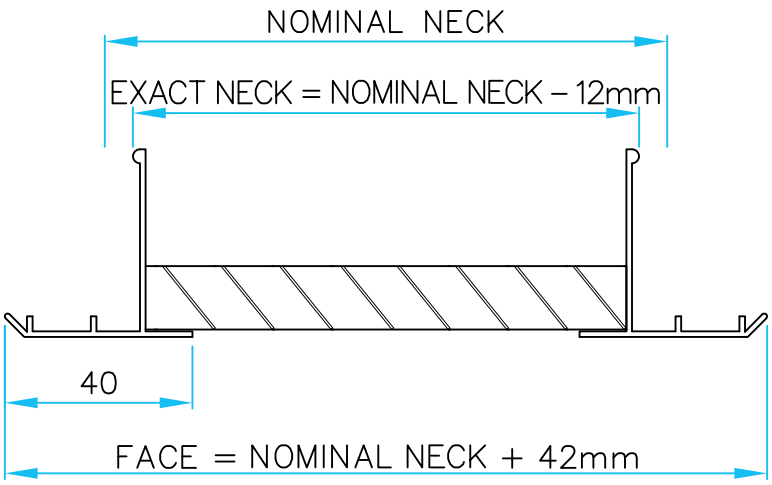
Options

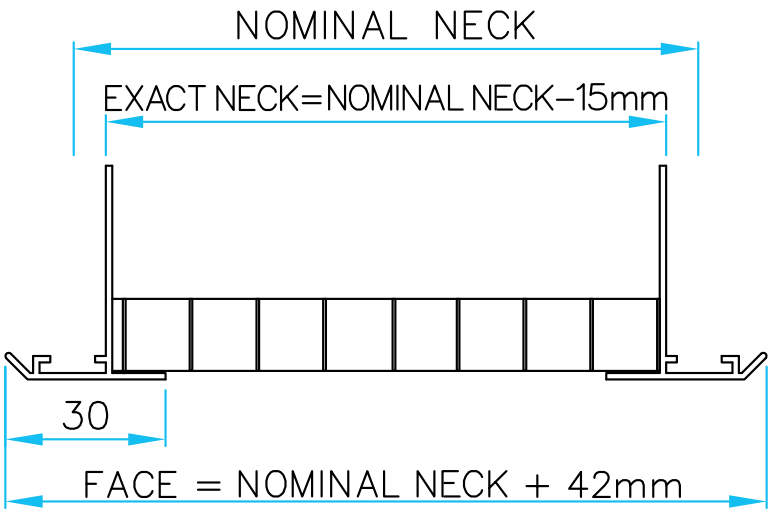
ECA - Angled egg crate. Available to substitute for standard egg crate in ALL Series EC egg crate products upon request. NOTE: Important to indicate the egg crate orientation when ordering angled egg crate product.



ANGLED EGG CRATE



ECALC
ANGLED LOOSE CORE EGG CRATE



ECNC
LOOSE CORE EGG CRATE NARROW FRAME

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Technical Data

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Size (Nom.)												
X Dim.	Y Dim.	Nominal Area (m^2)	Pressure Drop (Pa)	3	5	10	20	30	40	50	60	70
150	150	0.02	Flow Rate (l/s)	22	30	47	68	82	92	110	120	128
			Noise NR	<20	<20	<20	<20	26	30	32	35	37
200	200	0.04	Flow Rate (l/s)	53	75	95	138	165	185	210	225	240
			Noise NR	<20	<20	<20	25	31	34	37	40	42
250	250	0.06	Flow Rate (l/s)	80	110	150	215	265	310	350	385	440
			Noise NR	<20	<20	<20	27	33	37	40	43	46
300	300	0.09	Flow Rate (l/s)	135	170	240	335	410	485	525	585	620
			Noise NR	<20	<20	20	30	36	40	43	46	48
350	350	0.12	Flow Rate (l/s)	190	240	340	480	570	650	700	780	850
			Noise NR	<20	<20	23	32	38	43	46	48	50
450	450	0.20	Flow Rate (l/s)	310	400	550	750	950	1060	1200	1310	1450
			Noise NR	<20	<20	26	35	43	44	47	49	51
500	500	0.25	Flow Rate (l/s)	420	530	700	1030	1260	1450	1620	1780	1950
			Noise NR	<20	<20	27	37	43	47	50	53	55
600	600	0.36	Flow Rate (l/s)	575	700	1130	1450	1780	2060	2250	2500	2700
			Noise NR	<20	20	30	40	46	50	52	54	58
750	750	0.56	Flow Rate (l/s)	750	1050	1510	2070	2580	3000	3300	3650	4000
			Noise NR	<20	23	32	42	47	51	54	57	59
900	900	0.81	Flow Rate (l/s)	1175	1530	2150	3020	3650	4220	4750	5200	5600
			Noise NR	<20	25	34	46	52	56	59	62	64
1200	1200	1.44	Flow Rate (l/s)	1875	2400	3400	4700	5700	6700	7400	8000	8700
			Noise NR	21	28	38	48	54	58	61	63	66

Dimensions in millimetres.
For rectangular sizes, use the Nominal Area (m^2). For example, 450 x 200 = 0.090m^2 use the data for the size grille 300 x 300.
This data to be used for quick selection only, not to be used for commissioning.

ECHF – Eggcrate Hinge Filter Performance Data

		Airflow (L/Sec) - Core Velocity			
Nominal Neck Size	Core Area m^2	1.5 m/s	1.8 m/s	2 m/s	2.5 m/s
300 x 300	0.05	79.5	95.4	106	132.5
450 x 450	0.14	216	259.2	288	360
600 x 600	0.28	420	504	560	700
1200 x 600	0.60	900	1080	1200	1500

Filter Information	
Filter Media	Grey Polyester
Face Velocity	1.8 m/s
Initial Resistance	25 Pa

See note below

NOTE: Select ECHF to suit face velocity.
Filter performance at face velocities greater than 1.8 m/s will be compromised.

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EGG CRATE GRILLES

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Example – To order a Hinged Core Egg Crate, 600 x 250, Angled Egg Crate and standard RAL9016 finish.

CODE = EC-A-HC-600-250

Note: Contact your sales branch or sales representative if your desired product cannot be ordered by using the above ordering criteria.

EC-_____-_____-_____-_____-_____

FINISH
NIL= RAL9016

EC WIDTH – NOMINAL
Y = NOMINAL DIMENSION
Stated in millimetres

EC LENGTH – NOMINAL
X = NOMINAL DIMENSION
Stated in millimetres

EGG CRATE OPTIONS
LC = Loose Core Egg Crate
LCNA = Loose Core Egg Crate c/w Neck Adapter & Fixing Clips
LCNAD = Loose Core Egg Crate c/w Neck Adapter Damper & Fixing Clips
RC = Removable Core Egg Crate
HC = Hinged Core Egg Crate
HF = Hinged Core Egg Crate c/w Filter
FC = Fixed Core Egg Crate
NF = Narrow Frame

EGG CRATE OPTIONS
NIL = Standard Square Egg Crate
A = Angled Egg Crate

MODEL
EC = Egg Crate Grille

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