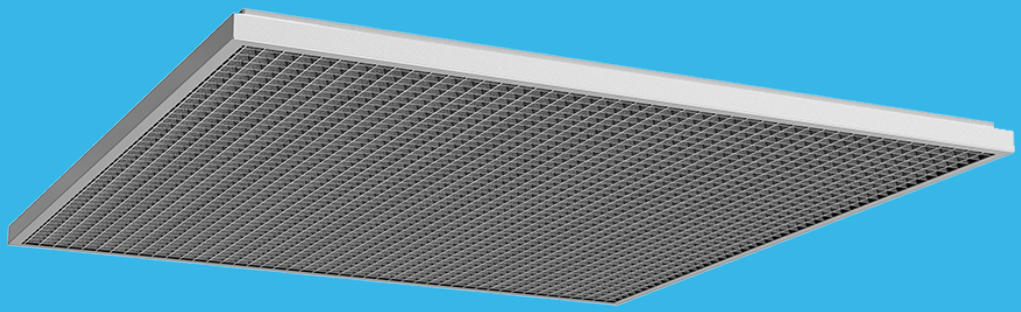


AEC

Grille

Grille

AEC

Description

AEC is an eggcrate grille for exhaust air with eggcrate grid 0°or 45° inclination, made of aluminum and specifically designed for installation in modular ceilings, with particular thin frame that becomes invisible, once installed.

AEC grille is available with G3 filter as accessory.

Available in various standard dimensions.

Order code

Product	**AEC**	**1**	**a**	**-**	**b**	**ccc x ddd**	**eeee**
Type							
AEC							
Frame							
1 - Frame with no flange							
Grid							
1 - Eggcrate 0º							
2 - Eggcrate 45º							
Installation							
- Not prepared							
Accessories							
- No accessories							
F Rigid G3 filter							
Size							
L x H: 595x595							
Grilles standard finish:							
9003 RAL 9003, gloss 30							
xxxx On request, other RAL colour							

Example 1: AEC-11-F-595-595-9003
Example 2: AEC-12-595-595

Min. - max. dimensions

AEC is available in one standard size.

L x H in mm :

595 x 595

LindQST

Use the advanced Lindab web tool LindQST to calculate the full range of grilles and to find the suitable grille type and dimension for all applications.
Product selection, room dimensioning and documentation search are easy available directly on web and mobile devices.
Find this and much more on www.lindQST.com.

Maintenance

Remove the grille to gain access to the plenum box or duct. External parts should be wiped with a damp cloth.

Accessories

Filter:	Rigid filter G3

Materials and finish

Grille eggcrate:	Aluminium
Grille frame:	Galvanized steel

Grilles standard finish:

- RAL 9003 gloss 30

The grille is available in other colours. Please contact Lindab's sales department for further information.

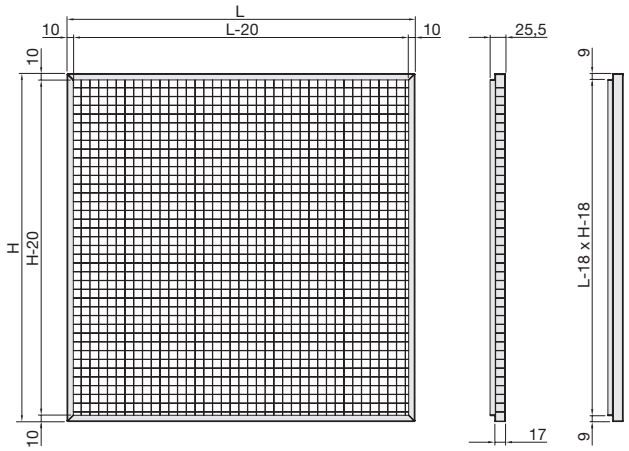
2024-10-09

Grille

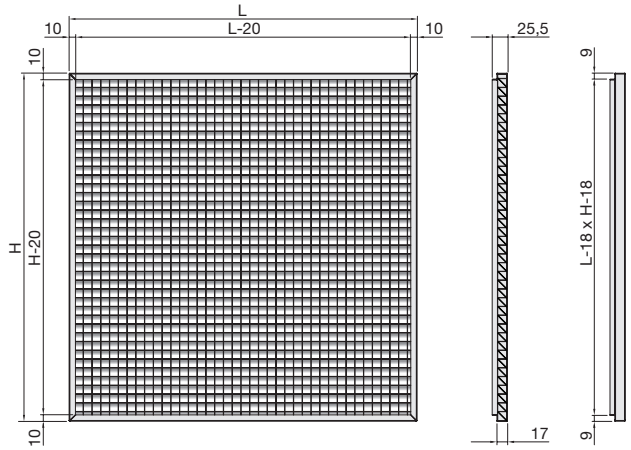
AEC

Frame and grid

AEC-11 - Frame without flange and 0° eggcrate grid.

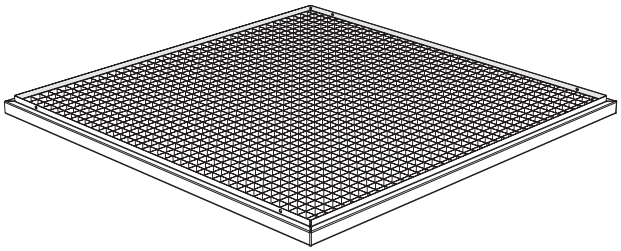


AEC-12 - Frame without flange and 45° eggcrate grid.



Installation

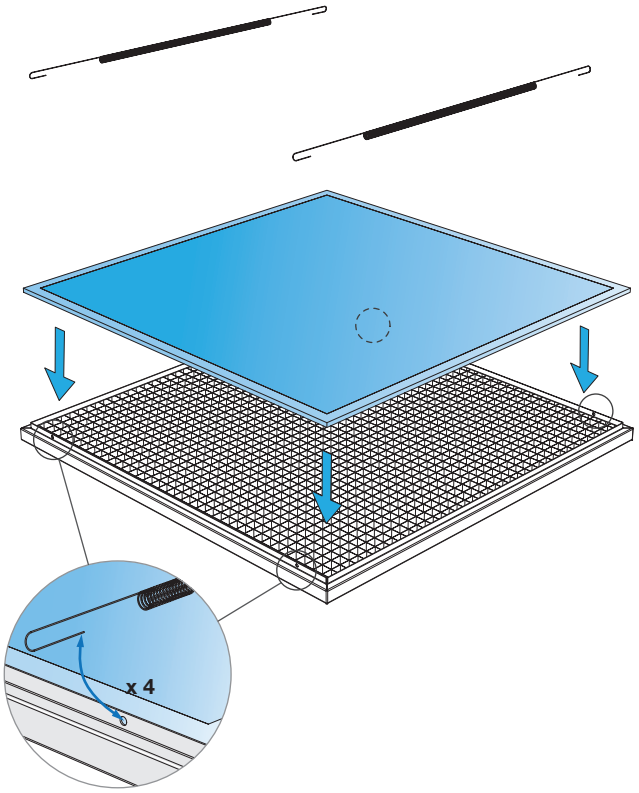
- Not prepared



Accessories

- No accessories
F 6 mm Rigid G3 filter

When ordering the grille with filter you can order the Rigid G3 filter kit too.



Rigid G3 filter dimensions

Grille size mm L x H mm	Rigid G3 filter dimensions mm
595 x 595	572 x 572 x 6

Grille AEC

Free area

AEC Grille size mm		Free area A_k m^2	
L	H	0°	45°
595	595	0.319	0.290

Quick selection, Exhaust air, AEC-11 and AEC-12

Grille size mm			Air flow rate																	
	A_k m^2		m^3/h	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800	4000	4200
			l/s	(222)	(278)	(333)	(389)	(444)	(500)	(556)	(611)	(667)	(722)	(778)	(833)	(889)	(944)	(1000)	(1056)	(1111)	(1167)
0°	595x595	L_{WA} dB(A)					<20	<20	<20	22	25	28	30	33	35	37	39	41	43	45	46
	(0,319)	V_k m/s					1,2	1,4	1,6	1,7	1,9	2,1	2,3	2,4	2,6	2,8	3	3,1	3,3	3,5	3,7
		Δp_t Pa					1	2	2	3	3	4	5	5	6	7	8	9	10	11	12
45°	595x595	L_{WA} dB(A)					<20	<20	21	24	28	30	33	36	38	40	42	44	46	47	49
	(0,29)	V_k m/s					1,3	1,5	1,7	1,9	2,1	2,3	2,5	2,7	2,9	3,1	3,3	3,5	3,6	3,8	4
		Δp_t Pa					2	2	3	3	4	5	6	6	7	8	10	11	12	13	15

$10 \leq L_{WA} < 30$ $30 \leq L_{WA} < 40$ $40 \leq L_{WA} < 50$

Data valid for:

- Exhaust air (no filter)

Terminology:

- A_k = effective free area
- v_k = effective face velocity
- Δp_t = total pressure loss
- L_{WA} = sound power level

Grille

AEC

Technical data

Capacity

Air flow rate q_v [l/s] and [m^3/h], total pressure loss Δp_t [Pa] and sound power level L_{WA} [dB(A)] can be seen in the diagrams.

Sound power level L_{WA}

Sound power level L_{WA} [dB(A)] with eggcrate can be seen in the diagrams. The sound power levels apply for grilles without an opposed blade damper.
See the table below for correction of sound power level on blade settings [dB].

Frequency-related sound power level

The sound power level in the frequency band is defined as

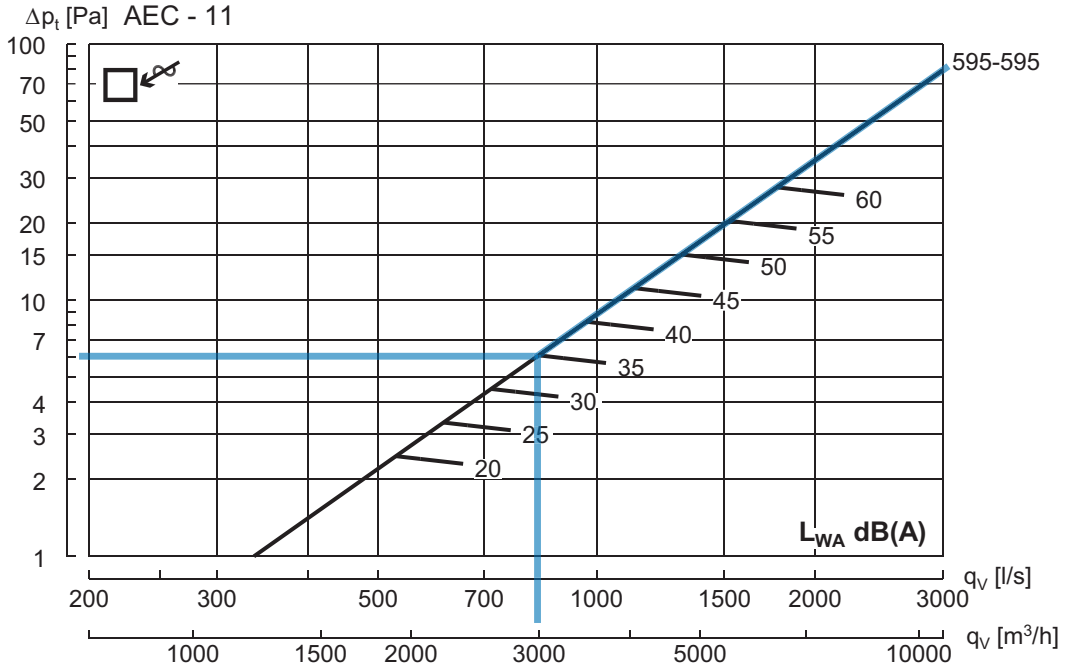
$L_{Wf} = L_{WA}+K_{ok}$.

K_{ok} values are given in the table below.

	Centre frequency Hz							
	63	**125**	**250**	**500**	**1K**	**2K**	**4K**	**8K**
Exhaust	2	11	1	-2	-7	-12	-21	-27

Grille AEC

Technical data



Example:

Grille size:	595 x 595 mm
Free area A_k:	0.319 [m^2]
Air flow rate q_v:	3000 m^3/h (833 l/s)

Result:

Sound power level L_{WA}:	~35 dB(A)
Total pressure loss Δp_t:	~ 6 pa

Data valid for:

- Exhaust air

Grilles available also on the Lindabs online calculation too on www.lindQST.com.

Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

Lindab | For a better climate