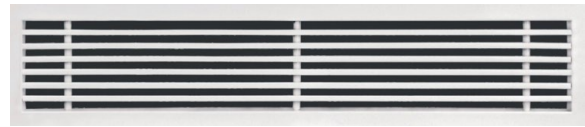


Linear Bar Grilles

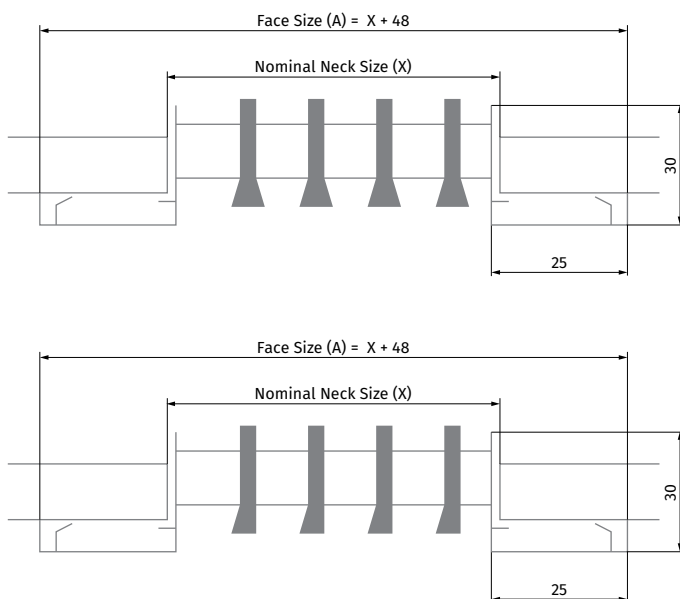
Features

- All grilles, both with and without frames, can be manufactured with a hingeable access panel at one or both ends of the grille. The standard length of each panel piece is 150 mm, although this length can be varied upon request.
- Due to the large amount of possibilities offered by this type of grille, it is recommended to consult in specific cases with special dimensions.
- This range of grille has the necessary characteristics for its integration in contemporary architecture and interior design. They can be installed in ceilings, walls, consoles, fan-coils, induction units, both for supply and return air application and properly reinforced in floors.
- The maximum recommended length is 2 m in one piece, although 2 or more modules can be combined to give appearance of continuity.



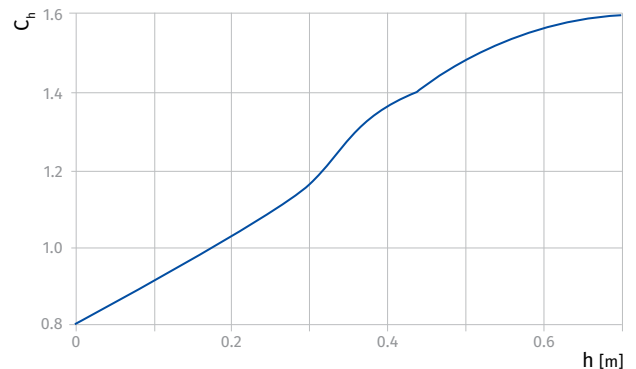
Design

- Made of extruded aluminium
- Fixed blades at 0 degree, 15 degree, 30 degree
- Rigid, heavy gauge extruded frames with reinforced mitered and welded corners
- Standard finish white, other finishes are available
- Surface mounting or concealed mounting
- Size manufactured on request
- Construction is of a fixed core, while a hinged core option is available



General notes on the quick selection table

- Apart from the before-mentioned factor C_s (for grilles mounted in sill or floor), another correction factor exists for the distance of the grille to the ceiling, when mounted in a wall. For a free jet this factor C_h will be 1.6.



- Corrected throw = Throw
- C_h , with h in the graph the distance between grille and ceiling.

$$X_c = \dots C_h$$

SYMBOLS:

A_k – Effective area

V_k – Effective velocity in m/s

X – Throw in metres correspond to a terminal velocity in occupied zone of 0.25 m/s

Pressure (P_t) – All pressures are in Pa (N/m^2)

NR – Noise level index in dB based on a room absorption and one diffuser

Quick Selection Table

Flow rate (m³/h) (l/s)	L H A _K	1000	1000	1000	1000	1000	1000	1000	1000		
		50 0.024	75 0.0370	100 0.0500	125 0.0630	150 0.0820	200 0.1080	250 0.1400	300 0.1720		
100	27.8	V _K	1.2	0.8	0.6						
		X	2.3	1.9	1.6						
		P _t	0.8	0.3	0.2						
		NR	-	-	-						
120	33.3	V _K	1.4	0.9	0.7						
		X	2.8	2.2	1.9						
		P _t	1.1	0.5	0.3						
		NR	-	-	-						
140	38.9	V _K	1.6	1.1	0.8						
		X	3.2	2.6	2.2						
		P _t	1.5	0.6	0.4						
		NR	-	-	-						
160	44.4	V _K	1.9	1.2	0.9						
		X	3.7	3.0	2.6						
		P _t	2.0	0.8	0.5						
		NR	-	-	-						
180	50.0	V _K	2.1	1.4	1.0	0.8					
		X	4.1	3.3	2.9	2.6					
		P _t	2.5	1.1	0.6	0.4					
		NR	8	-	-	-					
200	55.6	V _K	2.3	1.5	1.1	0.9					
		X	4.6	3.7	3.2	2.8					
		P _t	3.1	1.3	0.7	0.5					
		NR	10	-	-	-					
250	69.4	V _K	2.9	1.9	1.4	1.1	0.8				
		X	5.8	4.6	4.0	3.6	3.1				
		P _t	4.9	2.0	1.1	0.7	0.4				
		NR	16	7	-	-	-				
300	83.3	V _K	3.5	2.3	1.7	1.3	1.0	0.8	0.6		
		X	6.9	5.6	4.8	4.3	3.7	3.3	2.9		
		P _t	7.0	2.9	1.6	1.0	0.6	0.3	0.2		
		NR	21	11	-	-	-	-	-	-	
350	97.2	V _K	4.1	2.6	1.9	1.5	1.2	0.9	0.7	0.6	
		X	8.1	6.5	5.6	5.0	4.4	3.8	3.3	3.0	
		P _t	9.5	4.0	2.2	1.4	0.8	0.5	0.3	0.2	
		NR	25	15	9	-	-	-	-	-	-
400	111.1	V _K	4.6	3.0	2.2	1.8	1.4	1.0	0.8	0.6	
		X	9.2	7.4	6.4	5.7	5.0	4.3	3.8	3.4	
		P _t	12.4	5.2	2.9	1.8	1.1	0.6	0.4	0.2	
		NR	28	19	12	8	-	-	-	-	-
450	125.0	V _K	5.2	3.4	2.5	2.0	1.5	1.2	0.9	0.7	
		X	10.4	8.3	7.2	6.4	5.6	4.9	4.3	3.9	
		P _t	15.7	6.6	3.6	2.3	1.3	0.8	0.5	0.3	
		NR	31	22	15	11	5	-	-	-	-
500	138.9	V _K	5.8	3.8	2.8	2.2	1.7	1.3	1.0	0.8	
		X	11.5	9.3	8.0	7.1	6.2	5.4	4.8	4.3	
		P _t	19.4	8.2	4.5	2.8	1.7	1.0	0.6	0.4	
		NR	34	25	18	13	8	-	-	-	-
600	166.7	V _K	6.9	4.5	3.3	2.6	2.0	1.5	1.2	1.0	
		X	13.8	11.1	9.6	8.5	7.5	6.5	5.7	5.2	
		P _t	28.0	11.8	6.4	4.1	2.4	1.4	0.8	0.5	
		NR	38	29	23	18	12	6	-	-	-
700	194.4	V _K	8.1	5.3	3.9	3.1	2.4	1.8	1.4	1.1	
		X	16.1	13.0	11.2	9.9	8.7	7.6	6.7	6.0	
		P _t	38.1	16.0	8.8	5.5	3.3	1.9	1.1	0.7	
		NR	42	33	27	22	16	10	5	-	-
800	222.2	V _K	9.3	6.0	4.4	3.5	2.7	2.1	1.6	1.3	
		X	18.4	14.8	12.8	11.4	10.0	8.7	7.6	6.9	
		P _t	49.7	20.9	11.5	7.2	4.3	2.5	1.5	1.0	
		NR	46	37	30	25	20	14	8	-	-
900	250.0	V _K		6.8	5.0	4.0	3.0	2.3	1.8	1.5	
		X		16.7	14.4	12.8	11.2	9.8	8.6	7.7	
		P _t		26.5	14.5	9.1	5.4	3.1	1.8	1.2	
		NR		40	33	28	23	17	11	7	
1000	277.8	V _K		7.5	5.6	4.4	3.4	2.6	2.0	1.6	
		X		18.5	15.9	14.2	12.5	10.9	9.5	8.6	
		P _t		32.7	17.9	11.3	6.7	3.8	2.3	1.5	
		NR		42	36	31	25	20	14	10	
1200	333.3	V _K			6.7	5.3	4.1	3.1	2.4	1.9	
		X			19.1	17.1	14.9	13.0	11.4	10.3	
		P _t			25.8	16.2	9.6	5.5	3.3	2.2	
		NR			41	36	30	24	19	14	
1400	388.9	V _K				6.2	4.7	3.6	2.8	2.3	
		X				19.9	17.4	15.2	13.3	12.0	
		P _t				22.1	13.0	7.5	4.5	3.0	
		NR				40	34	28	23	18	

DIFFUSERS AND GRILLES