



Linear bar grille



Product description

Linear grille for supplying or returning air, KOOLAIR, model **31-1** of dimensions LxH, with horizontal fixed blades at 0°. It can incorporate volume control damper **(-O)** and fixation accessory to be determined. Finished in anodised aluminium or any RAL colour upon request.

Note: Possible to form continuous lines (Maximum length per section 2000 mm).

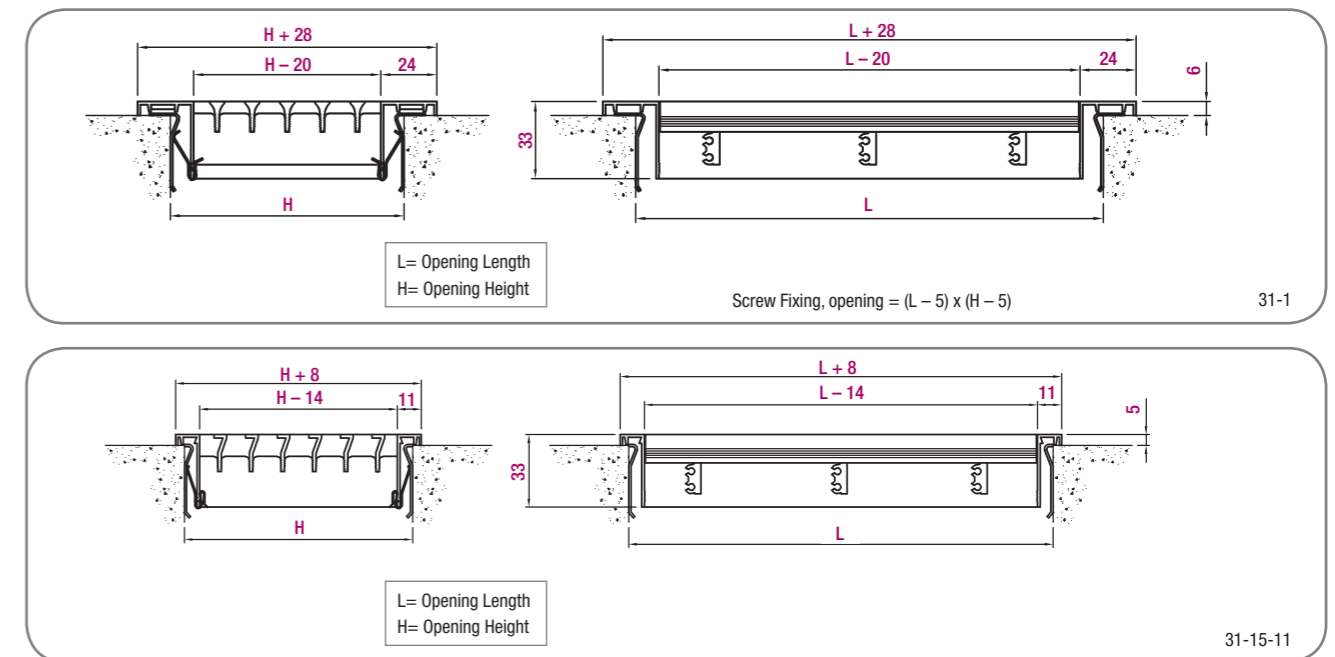
Mounting

- With pressure clips. Mounting frame needed **(-MM)**.
- With fixing straps for filter **(-FL)**.
- With screws **(-T)**. The grille is provided with holes for screwing the mounting frame.
- With plenum box made of galvanised steel sheet, with side or top spigot connection **(-PE21/20)**.
- Concealed fixing **(-SFO)**. Mounting frame needed **(-MM)**.

Other models

- 31-15.** Linear bar grille with fixed blades (deflection 15°).
- 31-1/15-G.** Linear bar grille with fixed blades (deflection 0° or 15°), secondary deflection with vertical blades.
- 31-1/15-20.** Linear bar grille with fixed blades (deflection 0° or 15°), with fine frame of 20x1,5 mm.
- 31-1/15-G-20.** Linear bar grille with fixed blades (deflection 0° or 15°), secondary deflection with vertical blades and fine frame of 20x1,5 mm.
- 31-1/15-E-PM.** Linear bar grille with fixed blades (deflection 0° or 15°), with narrow frame of 8,7 mm and mounting bridge.
- 31-1/15-SB.** Linear bar grill with fixed blades (deflection 0° or 15°), without frame.
- 31-1/15-11.** Linear bar grille with fixed blades (deflection 0° or 15°), with frame of 11x6 mm.
- 31-1/15-6.** Linear bar grille with fixed blades (deflection 0° or 15°), with frame of 6,6 mm.
- 31-1/15 SPORT.** The ball protection linear bar grilles are used for supply and extract, in gym, sport centres and multi-purpose halls.

General dimensions



Selection table

(Flow rate per linear metre of grille)

Dimension	Q (m³/h)	L _{wa} [dB(A)]	ΔP _t (Pa)	X (m)	V _k (m/s)
1000 x 50	330	24	10	3,4	3,8
	450	32	19	4,6	5,2
	613	40	34	6,3	7,1
1000 x 75	475	24	8	3,9	3,5
	650	32	16	5,3	4,8
	890	40	30	7,3	6,6
1000 x 100	605	24	8	4,3	3,4
	825	32	14	5,9	4,6
	1130	40	27	8,1	6,6
1000 x 125	775	24	7	4,8	3,2
	1060	32	13	6,5	4,4
	1445	40	24	8,9	5,9
1000 x 150	900	24	7	5,0	3,1
	1230	32	12	6,9	4,2
	1685	40	23	9,4	5,8
1000 x 200	1145	24	6	5,6	2,9
	1565	32	11	7,6	4,0
	2135	40	21	10,0	5,5
1000 x 250	1440	24	5	6,1	2,8
	1970	32	10	8,3	3,8
	2690	40	19	11,4	5,2
1000 x 300	1675	24	5	6,5	2,7
	2290	32	9	8,8	3,7
	3130	40	18	12,1	5,1

The Selection Table shows a summary of dimensions. Other sizes available. Consult the Sales Department.



LEGEND

- Q (m³/h): Air flow.
- L_{wa} [dB(A)]: Sound power level.
- ΔP_t (Pa): Total pressure loss.
- X (m): Throw for a maximum velocity of 0.25 m/s at the occupied zone
- ΔT = -10 °C (cold), installed at 2.7 m of height, with ceiling effect.
- V_k (m/s): Effective velocity.