



## 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 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). Concealed fastening system for installation in ceilings or walls with a thickness of between x and x without the need for a metal mounting frame (-SFO-PT).

### Accessories

With fixing straps for filter (-FL).

### 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.

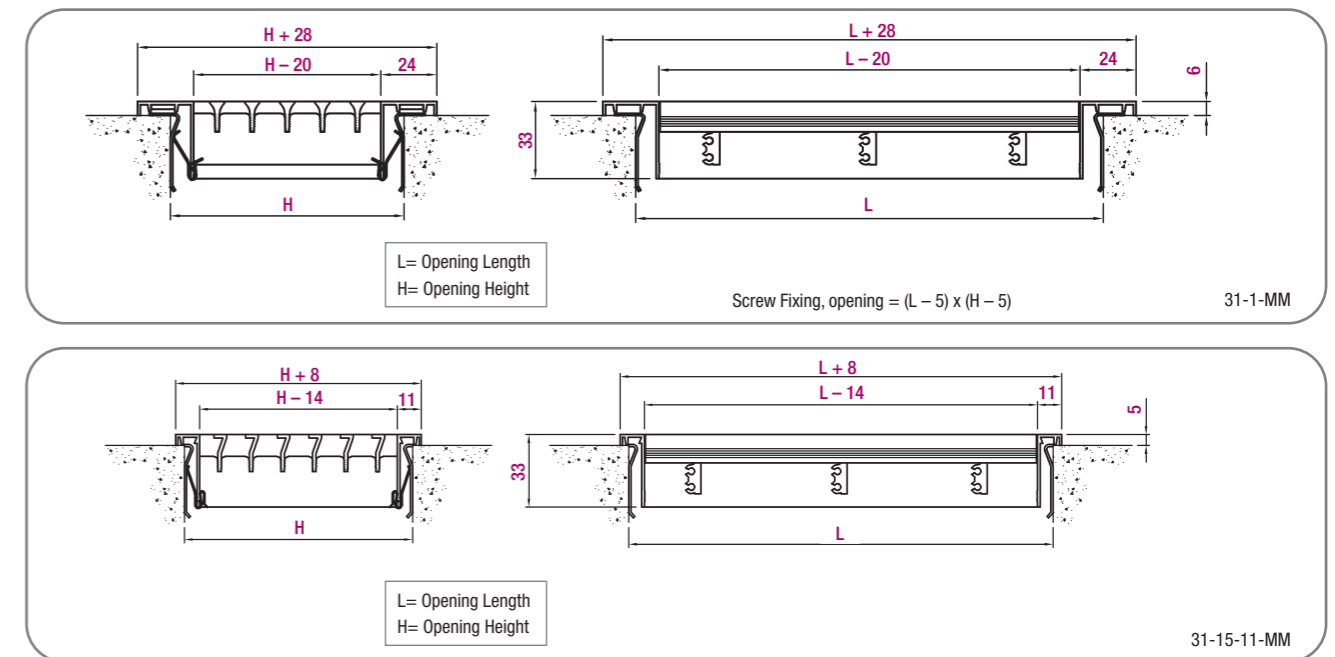
**31-1/15-SB.** Linear bar grill with fixed blades (deflection 0° or 15°), without frame.

**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

Size	Q (m³/h)	Supply				Return	
		L <sub>wa</sub> [dB(A)]	ΔP <sub>t</sub> (Pa)	X (m)	V <sub>k</sub> (m/s)	L <sub>wa</sub> [dB(A)]	ΔP <sub>t</sub> (Pa)
400 x 125	330	24	10	3,4	3,8	30	19
500 x 100	450	32	18	4,6	5,2	38	36
1000 x 50	615	40	34	6,3	7,1	46	67
300 x 250	475	24	8	3,9	3,5	30	16
500 x 150	650	32	16	5,3	4,8	38	31
1000 x 75	890	40	30	7,3	6,6	46	57
400 x 250	605	24	8	4,3	3,4	30	15
800 x 125	825	32	14	5,9	4,6	38	28
1000 x 100	1130	40	27	8,0	6,3	46	52
500 x 250	775	24	7	4,8	3,2	30	13
800 x 150	1060	32	13	6,5	4,4	38	25
1000 x 125	1445	40	24	8,9	6,0	46	47
500 x 300	900	24	7	5,0	3,1	30	13
600 x 250	1235	32	12	6,9	4,2	38	24
1000 x 150	1685	40	23	9,4	5,8	46	44
500 x 400	1200	24	6	5,7	2,9	30	11
800 x 250	1635	32	11	7,7	4,0	38	21
1000 x 200	2235	40	20	10,6	5,4	46	39
650 x 200	1440	24	5	6,1	2,8	30	10
1000 x 250	1970	32	10	8,3	3,8	38	20
1300 x 100	2690	40	19	11,4	5,2	46	36
1000 x 300	1675	24	5	6,5	2,7	30	10
1200 x 250	2290	32	9	8,8	3,7	38	18
1500 x 200	3130	40	18	12,1	5,1	46	34

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

### LEGEND

Q (m³/h): Air flow.  
 L<sub>wa</sub> [dB(A)]: Sound power level.  
 ΔP<sub>t</sub> (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<sub>k</sub> (m/s): Effective velocity.