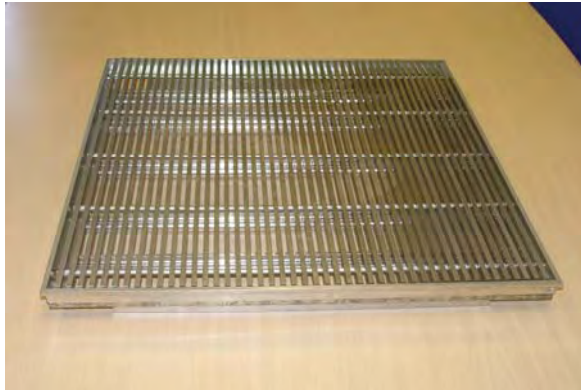


# Heavy duty floor grilles

1

## Heavy duty floor grilles for technical floors, type 31-1-F



### Description

Heavy duty floor grilles Serie 31-1-F (deflection 0°) or 31-15-F (deflection 15°), are specially designed to be use in the air conditioning of any rooms with technical floors, for example.: Computer floor grilles.

Heavy duty floor grilles are manufactured in extruded aluminium, finished in its natural colour without anodised

The Standard dimension is 600\*600 (599\*599 overall), besides under request others dimensions can be manufactured, in order to adapt these grilles to any type of floors

They can incorporate an opposed blade damper type 29-O, as well as a directional grille on the rear, type "G".

### Applications

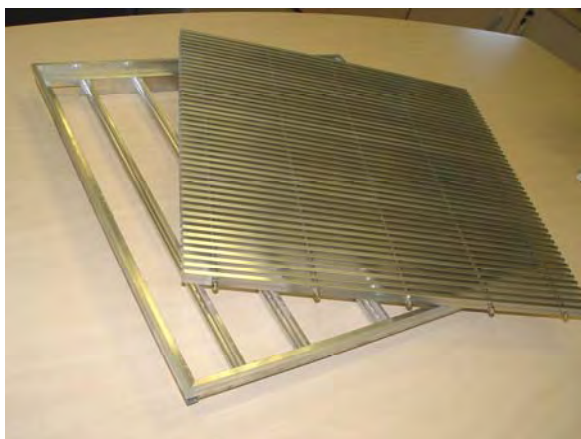
Our grilles type 31-1-F assure a displacement diffusion, supplying cold air in relation to the room temperature to air-condition, and at low velocity. Its recommended to work with a maximum difference of temperature of  $\pm 6^{\circ}\text{C}$ .

### Codification.

The codification describes in an univocal way the model requested by the customer.

<b>31-1-F</b>	Linear floor grille, deflection 0°
<b>31-15-F</b>	Linear floor grille, deflection 15°
<b>O</b>	Opposed blade damper type 29-O
<b>G</b>	Directional grille
<b>LxH</b>	Dimensions

Example: 31-1-F-O 600x600, linear floor grille, deflection 0°, with opposed blade damper, finished in natural aluminium without anodised.





# Heavy duty floor grilles

2

## Technical data. Quick selection table

Q		Dim LxH	600x600
(m³/h)	(l/s)	A <sub>k</sub> (m²)	0,2013
400	111,1	X (m) dB(A) p <sub>t</sub> (Pa) V <sub>k</sub> (m/s)	0,7 <15 1 0,6
500	138,9	X (m) dB(A) p <sub>t</sub> (Pa) V <sub>k</sub> (m/s)	0,8 <15 1 0,7
600	166,7	X (m) dB(A) p <sub>t</sub> (Pa) V <sub>k</sub> (m/s)	1,0 <15 1 0,8
700	194,4	X (m) dB(A) p <sub>t</sub> (Pa) V <sub>k</sub> (m/s)	1,1 <15 1 1,0
800	222,2	X (m) dB(A) p <sub>t</sub> (Pa) V <sub>k</sub> (m/s)	1,3 <15 1 1,1
900	250,0	X (m) dB(A) p <sub>t</sub> (Pa) V <sub>k</sub> (m/s)	1,5 <15 1 1,2
1000	277,8	X (m) dB(A) p <sub>t</sub> (Pa) V <sub>k</sub> (m/s)	1,6 <15 1 1,4
1200	333,3	X (m) dB(A) p <sub>t</sub> (Pa) V <sub>k</sub> (m/s)	2,0 15 2 1,7
1400	388,9	X (m) dB(A) p <sub>t</sub> (Pa) V <sub>k</sub> (m/s)	2,3 19 2 1,9
1600	444,4	X (m) dB(A) p <sub>t</sub> (Pa) V <sub>k</sub> (m/s)	2,6 22 3 2,2

## Symbols

X: Throw for a terminal air velocity of 0,25 m/s at 100mm above the floor

V<sub>k</sub> : Effective velocity

ΔP<sub>t</sub> : Pressure drop

dB(A) : Sound power level