

Halton FLE – Floor grille



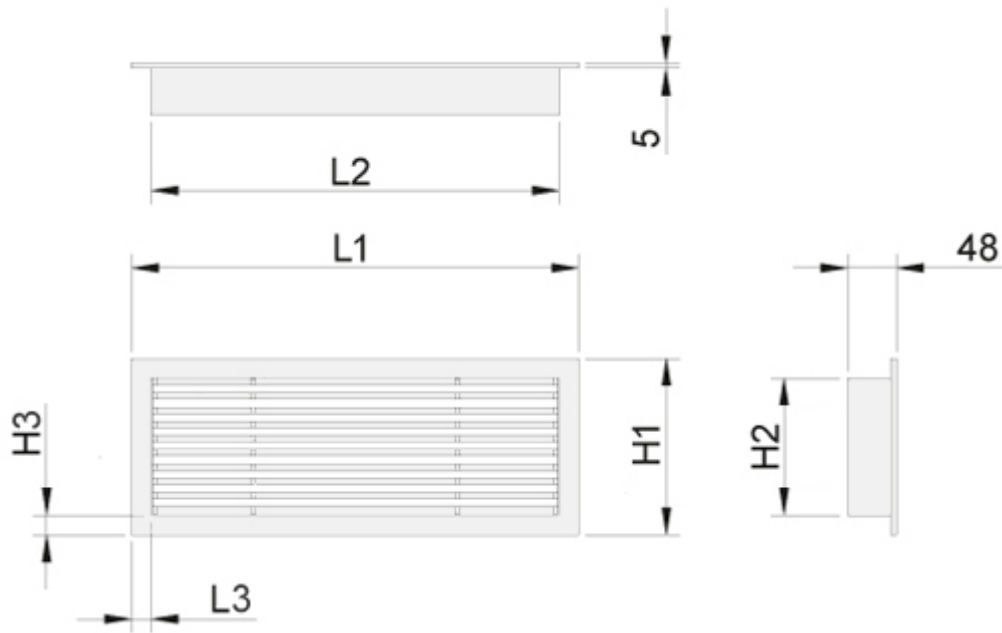
Overview

- Vertical supply from floor, also suitable for exhaust
- Fixed horizontal vanes streamlined to provide stable flow pattern with 15° angle deflection
- Strong aluminium construction, class K3 according the standard NF-EN 1253-2
- Detachable grille enables cleaning of the grille and ductwork
- Continuous grilles available with modular design

Product models and accessories

- Model with removable core vanes
- Airflow adjustment damper
- Installation frame

Dimensions



Flat frame, 18 mm (S=A)

| LxH | L1 | L2 | L3 | H1 | H2 | H3 |
|----------|------|-----|----|-----|-----|----|
| 300x100 | 312 | 276 | 18 | 112 | 76 | 18 |
| 600x100 | 612 | 576 | 18 | 112 | 76 | 18 |
| 1000x100 | 1012 | 976 | 18 | 112 | 76 | 18 |
| 300x150 | 312 | 276 | 18 | 162 | 126 | 18 |
| 400x150 | 412 | 376 | 18 | 162 | 126 | 18 |
| 600x150 | 612 | 576 | 18 | 162 | 126 | 18 |
| 800x150 | 812 | 776 | 18 | 162 | 126 | 18 |
| 1000x150 | 1012 | 976 | 18 | 162 | 126 | 18 |
| 1000x200 | 1012 | 976 | 18 | 212 | 176 | 18 |

Rounded frame, 25 mm (S=B)

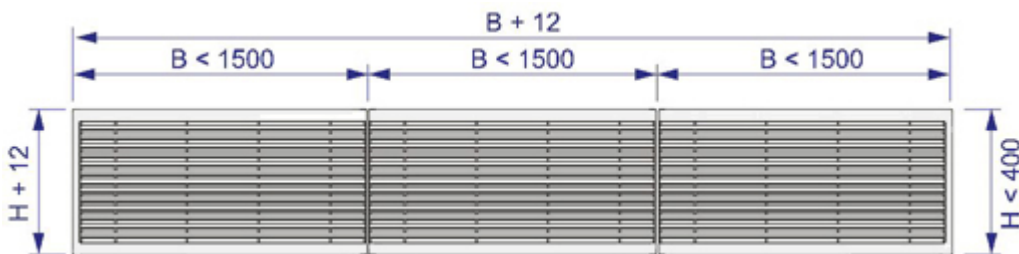
| LxH | L1 | L2 | L3 | H1 | H2 | H3 |
|----------|------|-----|----|-----|-----|----|
| 300×100 | 326 | 276 | 25 | 126 | 76 | 25 |
| 600×100 | 626 | 576 | 25 | 126 | 76 | 25 |
| 1000×100 | 1026 | 976 | 25 | 126 | 76 | 25 |
| 300×150 | 326 | 276 | 25 | 176 | 126 | 25 |
| 400×150 | 426 | 376 | 25 | 176 | 126 | 25 |
| 600×150 | 626 | 576 | 25 | 176 | 126 | 25 |
| 800×150 | 826 | 776 | 25 | 176 | 126 | 25 |
| 1000×150 | 1026 | 976 | 25 | 176 | 126 | 25 |
| 1000×200 | 1026 | 976 | 25 | 226 | 176 | 25 |

With flow control damper OD total depth = 48 mm + 45 mm.

Special dimensions

In addition to standard sizes, other sizes can be specially ordered. The maximum size is 1500×300 mm (LxH).

It is possible to have a continuous grille of modular design when the installation length is greater than 1500 mm. The maximum total length is 20 m.



Material

| Part | Material | Finishing |
|--------------------|------------------|---------------------------|
| Frame | Aluminium | Anodised or mill finished |
| Vanes | Aluminium | Anodised or mill finished |
| Installation frame | Galvanised steel | – |

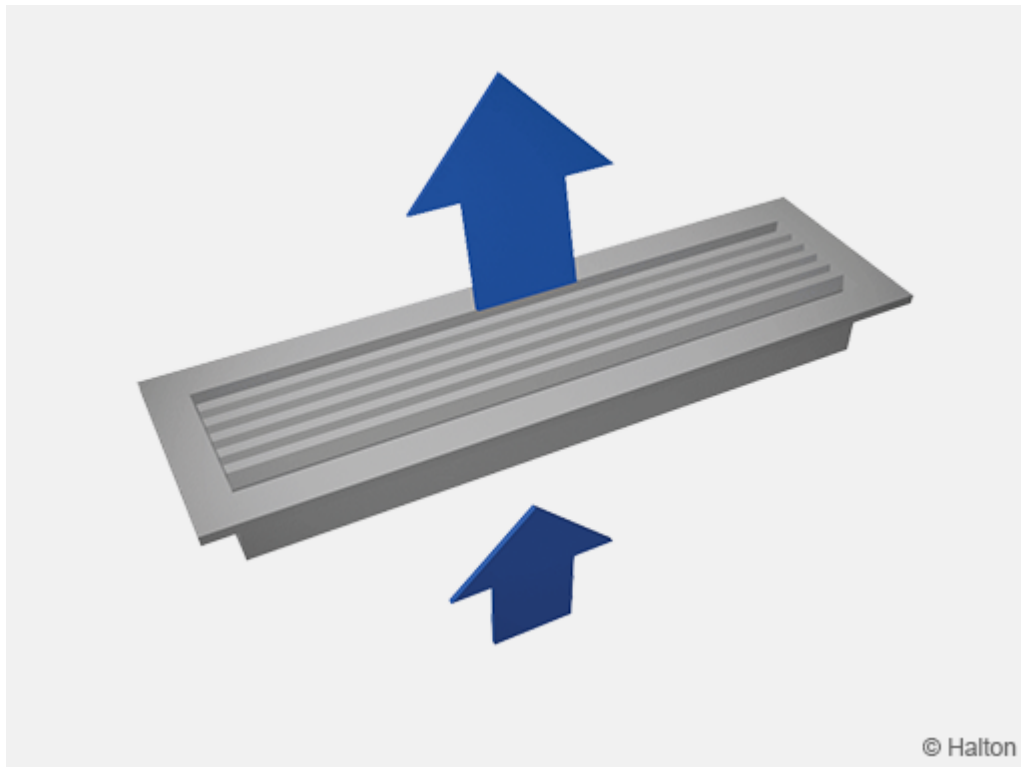
The bevel angles of the outer frame have been welded so that the joints are almost invisible.

Accessories

| Product model | Code | Description |
|---------------------------------|------|--|
| Model with removable core vanes | AV | Vanes can be removed to allow access to plenum |

| Accessory | Code | Description |
|----------------------------|------|--|
| Flow adjustment damper | OD | Aluminium opposite blade damper for airflow adjustment |
| Installation frame | IF | For the installation of the grille |
| Concealed screw fastening | CC | For installation with IF frame |
| Visible screw fastening | SF | Screw fastening with 25 mm wide frame |
| Flat installation frame | A | 18 mm wide – 48 mm high frame |
| Rounded installation frame | B | 25 mm wide – 48 mm high frame |

Function



Supply air is supplied with a 15° angle deflection through the horizontal vanes into the space. Supply air mixes with room air in front of the grille. The air jet can be directed towards the wall to obtain a longer throw length.

This grille can also be used as an exhaust unit.

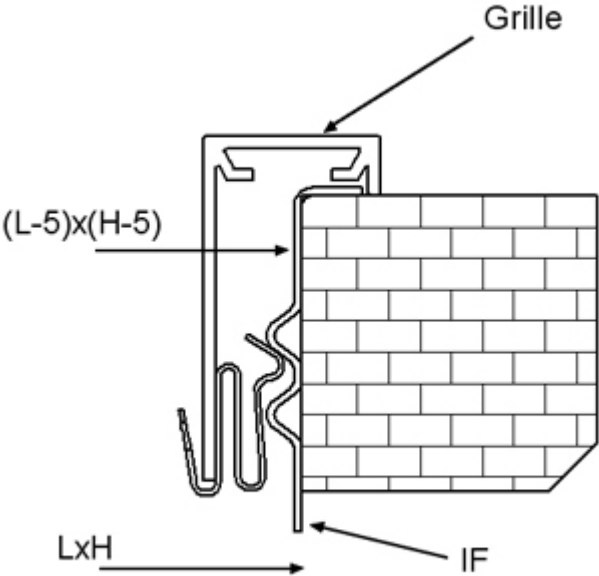
The Halton FLE grille has a high load resistance, with a class K3 according the standard NF-EN 1253-2, (test report CSTB n°CAPE AT 16-009).
The class K3 is defined in the standard as: “Area without at the vehicle traffic, like common place, shopping centers, and some public buildings”

Installation



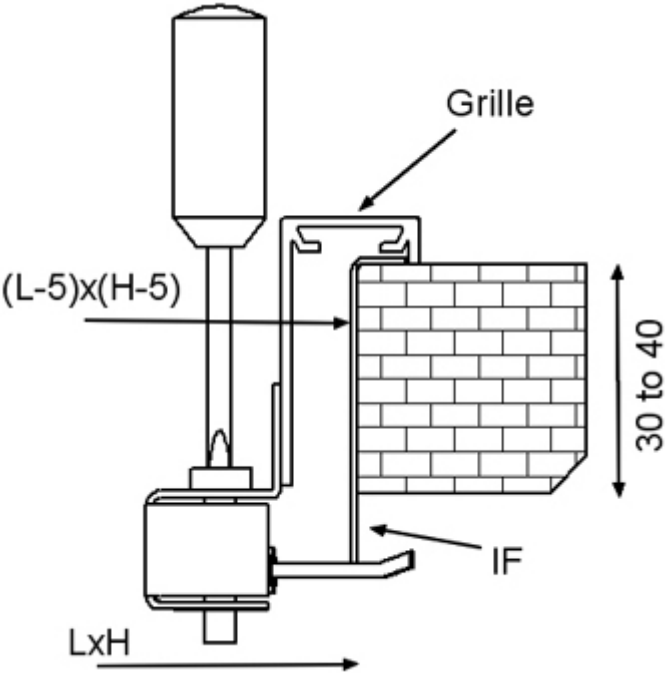
The grille is connected to the floor plenum using the IF/FLE installation frame. (1).

Clips fastening (standard)



The grilles are supplied with clips fastening as standard with the IF/FLE installation frame.

Concealed screw fastening (option)



Concealed screw fastening is possible when the grille is installed with an installation frame (IF/FLE).

Visible screw fastening (option)

Visible screw fastening is possible with the 25 mm wide frame. The auto screws, 4.2x25 (bevel headed screw) are supplied.

The size of the installation hole is LxH when an installation frame is used, and (L-5)x(H-5) without an installation frame.

Adjustment

Airflow adjustment damper OD

The airflow rate is adjusted by turning the damper blades behind the grille with a screwdriver. The measurement is carried out when grille is installed.

Servicing

The grille can be removed for cleaning.

Remove from the floor, by gently pulling the grille from the outer frame. Use a screwdriver, if necessary.

Clean the components with a damp cloth. They must not be immersed in water.

Push the grille back into place, so that the springs lock.

Specification

The floor grille has horizontal fixed vanes with a 15° angle deflection, and an 18 mm wide flat or 25 mm rounded frame, with an anodised standard finishing.

The floor grille can be used for both supply or exhaust air.

The bevel angles of the outer frame are welded so that the joints are almost invisible. The floor grille is mechanically strong in order to bear external loads.

The floor grille is detachable in order to provide access to the duct.

Order code

FLE/S-L-H; FS-FI-ZT

S = Frame option (mm)

- A Frame 18 x 45
- B Frame 25 x 45

L = Length (mm)

200, +1, ..., 20000

H = Height (mm)

100, +1, ..., 300

Other options and accessories

FS = Fastening

- CL Clips
- CC Concealed screw fastening
- SF Screw fastening

FI = Finishing

- AN Anodised
- MF Mill finished

ZT = Tailored product

- N No
- Y Yes (ETO)

Sub products

- BDR Plenum
- PRL Plenum
- IF Installation frame (Grilles)
- OD Opposed blade damper (Grilles)

Code example

FLE/A-200-100, FS=CL, FI=AN, ZT=N