Halton USS – External louvre

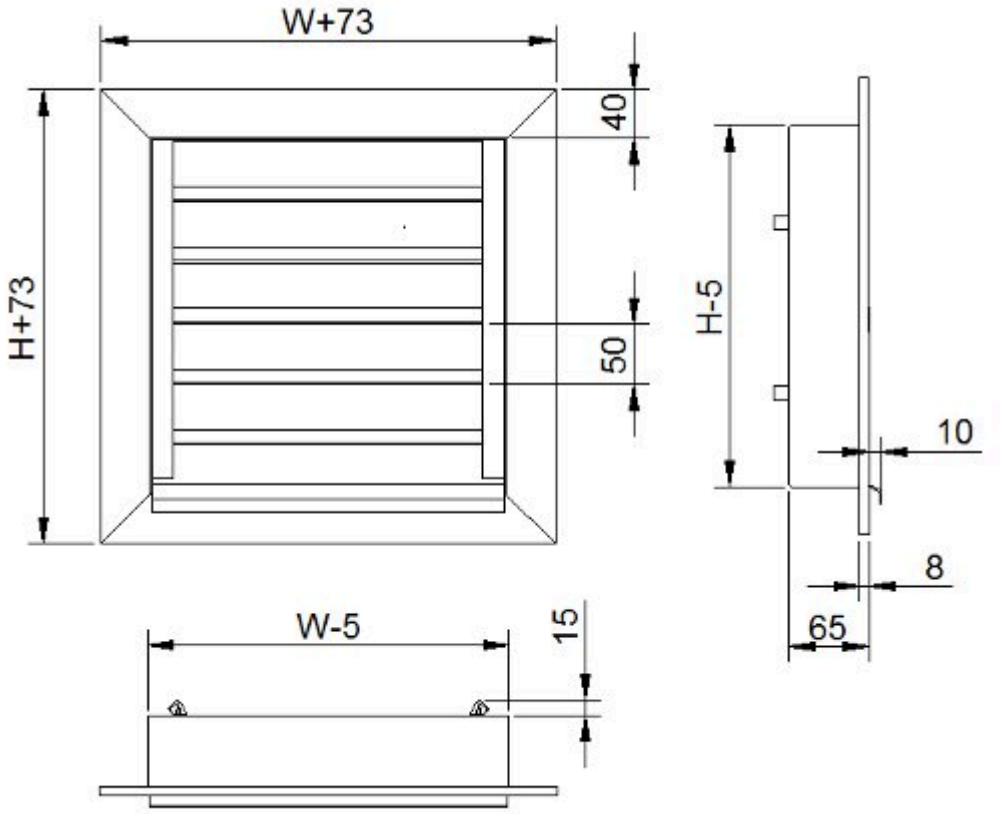
Overview

- External louvre for air intake and exhaust to prevent rainwater, snow, leaf and animal ingress
- Rainwater ingress penetration efficiency of approx. 95%
- Excellent operation based on special front edge blade profile and side grooves
- Grille and steel mesh section detachable from outside
- Polyester-painted galvanised steel as standard finish

Product models and accessories

- Modular construction available for large sizes
- Models available made of painted, unfinished or anodised aluminum, stainless steel (AISI 316L) and copper
- Model with circular duct connection also available (USD)

Dimensions

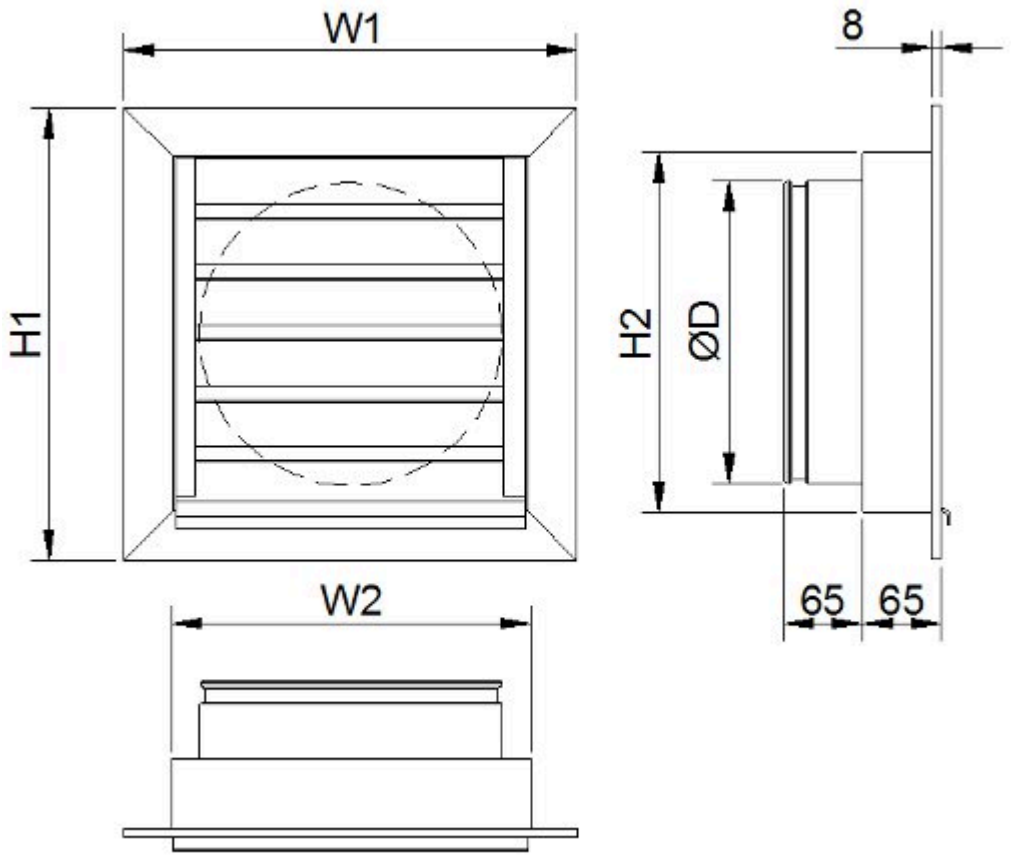


W	H
150, +50, ..., 1200	150, +50, ..., 1000

At the joint between modules, the dimension is 105 mm.

In addition to standard sizes, other sizes can be specially ordered. The maximum nominal size is 1200×1000 mm.
It is possible to have a continuous grille of modular design when the installation length is greater than 1200 mm. The maximum total length is 20 m.

Halton USD

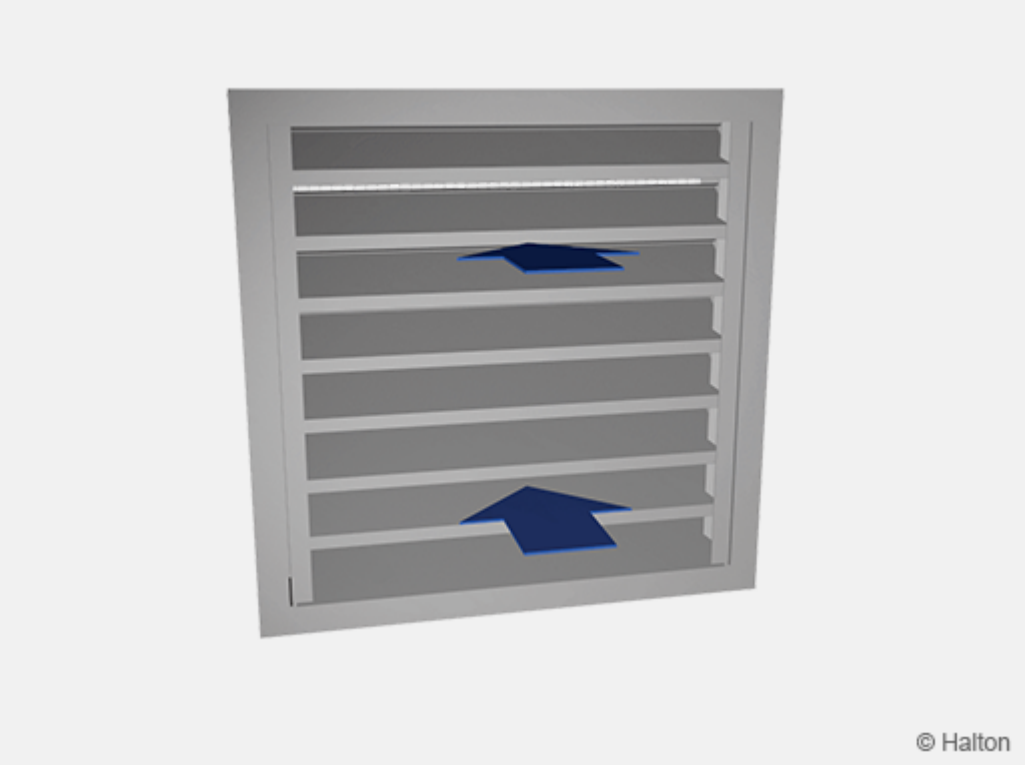


NS [mm]	øD [mm]	W1 [mm]	W2 [mm]	H1 [mm]	H2 [mm]	Weight [kg]
125	124	273	195	273	195	2,15
160	159	273	195	273	195	2,15
200	199	323	245	323	245	2,80
250	249	373	295	373	295	3,55
315	314	423	345	423	345	4,30
400	399	523	445	523	445	6,70
500	499	623	545	623	545	9,50

Material

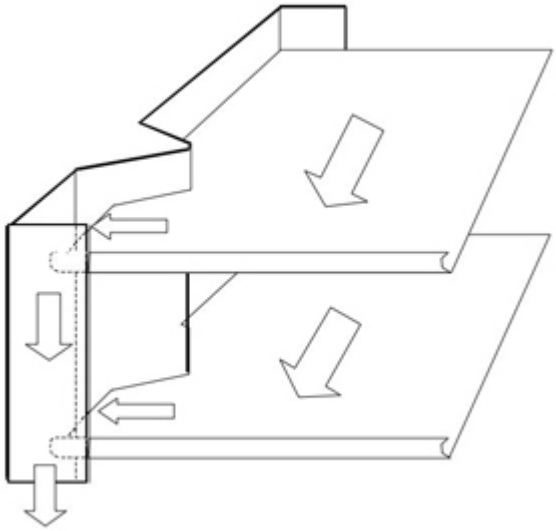
Part	Material	Finishing	Note
Fixed blades	Galvanised steel	The standard material is painted galvanised steel (RAL 7001). Special colours and anodising of aluminium are available on request.	Optionally aluminium, copper or stainless steel (AISI 316L)
Frame	Galvanised steel	The standard material is painted galvanised steel (RAL 7001). Special colours and anodising of aluminium are available on request.	Optionally aluminium, copper or stainless steel (AISI 316L)
Mesh (10 x 10 mm)	Galvanised steel	–	Stainless steel (AISI 316L)

Function



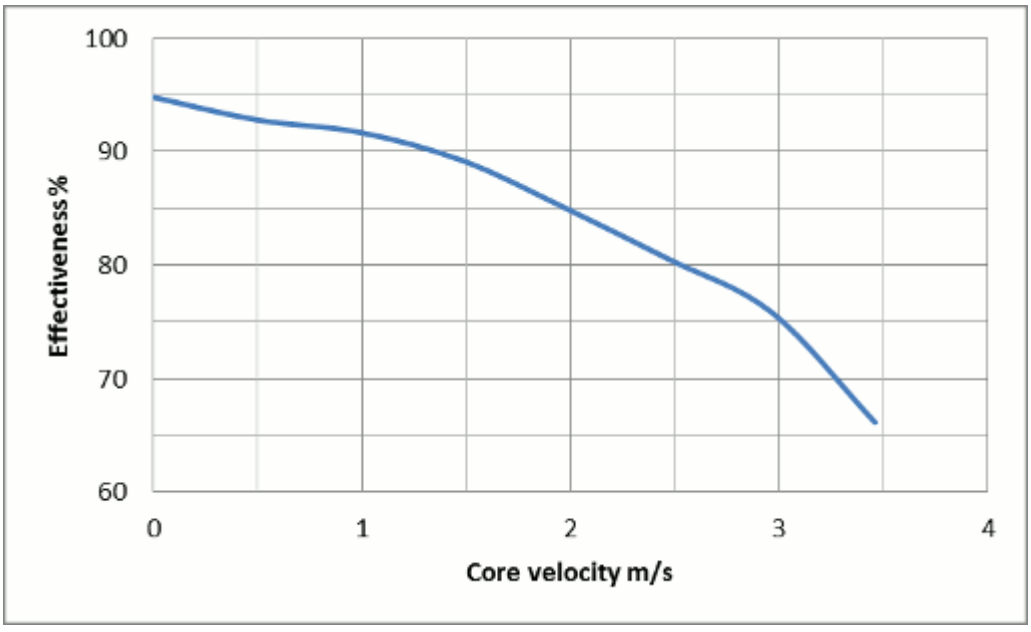
Air is supplied or extracted through the horisontal blades. The design of the grille prevents rainwater from reaching the ductwork. The slot between the frame and the top blade is sealed, thus preventing rainwater from entering the ductwork from above. Drops of water are collected in the grooves at the front edge of the blades. Water flows to the side grooves, where it drops down.

Blade construction



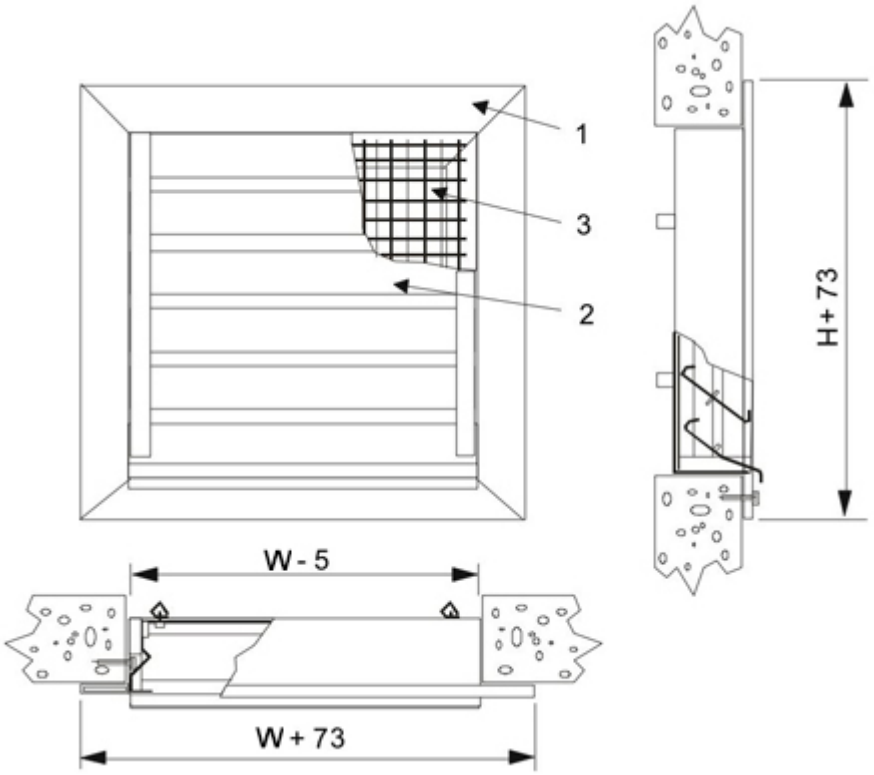
Depth of blade 65 mm, distance between blades 50 mm, free area 50%

Water penetration prevention (USS/I)



Water penetration rating per square meter of louvre tested according standard EN 13030:2001. Core velocity at free duct area of louvre size.

Installation



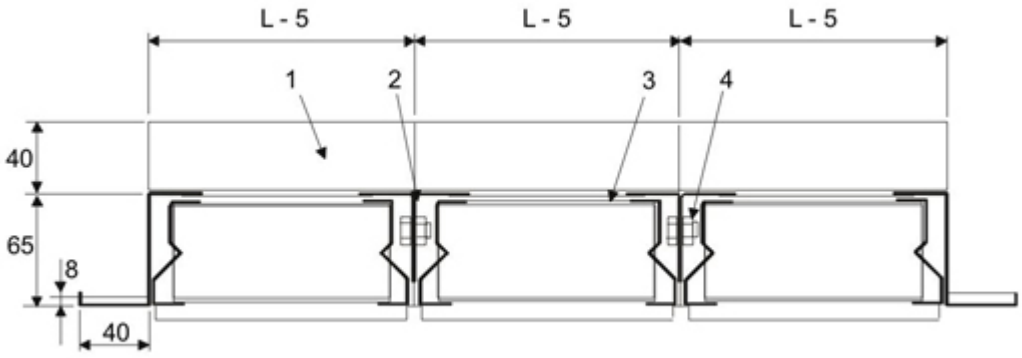
Code description

1. Frame
2. Blades
3. Steel mesh

The grille is suitable to be screw-fixed into a prepared masonry wall opening.
Drill holes in the flanges of the frame on the site.

The dimensions of the grille are given as the nominal dimensions of the opening.

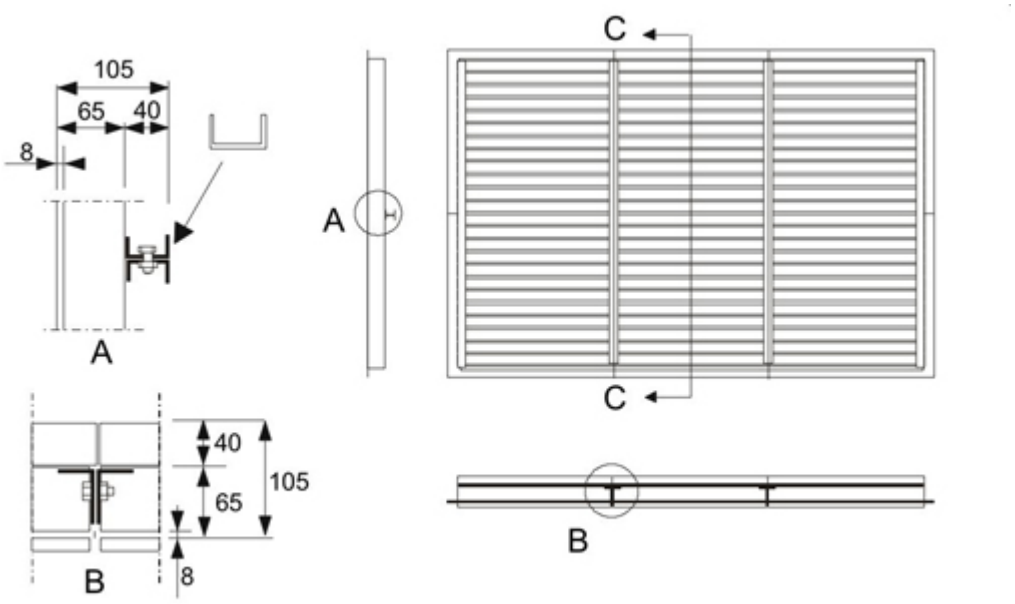
Installation of modules



Code description

1. Horisontal support
2. Vertical support
3. Steel mesh
4. Bolt and nut (M8 x 10)

In a modular installation, the frames of adjacent modules are bolted together before installation of the louvre sections.
In large modular installation (heigth > 2000 mm) the louvres shall be installed with a support structure (not included in delivery).



Servicing

If required, the grille is cleaned with a soft brush.

Specification

The outdoor louvre is manufactured from galvanised steel with an painted finish.
The louvre includes mesh fitted behind the grille.
The outdoor louvre is effective in preventing rainwater, snow, leaves, and animals and other objects entering the ductwork.

The louvre has a rainwater prevention capacity of at least 90% (EUROVENT 2/5).
The louvre is suitable for medium and high airflow rates.

Order code

USS/S-W-H

S = Model
I Intake

W = Width (mm)
150, +50, .., 12000

H = Height (mm)
150, +50, .., 10000

Arranged with Circular duct connection

Halton USD-S
S Duct diameter (125, 160, 200, 250, 315, 400, 500)

Other options and accessories

MA = Material (only for USS)
CS Steel
AS Stainless steel (AISI 316)
AL Aluminium
CU Copper

FI = Finishing (only for USS)
PN Painted
NA No finishing
AN Anodised
AM Anodised aluminium (spec.color)

CO = Colour
G Grey (RAL 7001)
X Special colour (RAL xxxx)
N No painting

ZT = Tailored product
N No
Y Yes (ETO)

Code example

USS/I-150-150, MA=CS, FI=PN, CO=G; ZT=N
USD-200, CO=G, ZT=N