SRFS

Aluminium decorative grille



Use

- For supply and exhaust ventilation, heating and air conditioning systems in industrial, commercial and domestic premises.

Design

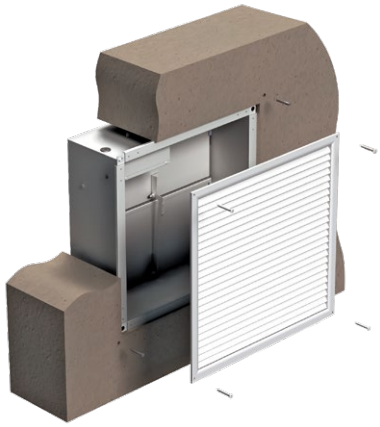
- Made of high quality extruded aluminium profile.
- The polymer or anodized coating of the grille provides resistance to adverse weather conditions.
- Grilles with special dimensions can be manufactured upon request.
- Grilles from 450 mm in size are produced with an additional partition to provide rigidity (ONFS series).

Modifications

- Can be equipped with an adapter (A).
- Can be equipped with special springs (P) for quick installation.
- The unit can be equipped with a decorative grille made of aluminium for a more aesthetic appearance.
- The grille has a single horizontal row of non-adjustable air flow guides fixed at 45°.
- The grille is polymer coated and anodised for extra protection against the weather elements.
- To enable the decorative grille installation, the damper must be embedded at least 40 mm deep into the wall as measured from the wall face to the damper flange.

NOTE:

- While selecting the aluminium decorative grille mind the wall opening dimensions.



Designation key

SRFS X X X X

Series:
Aluminium decorative grille

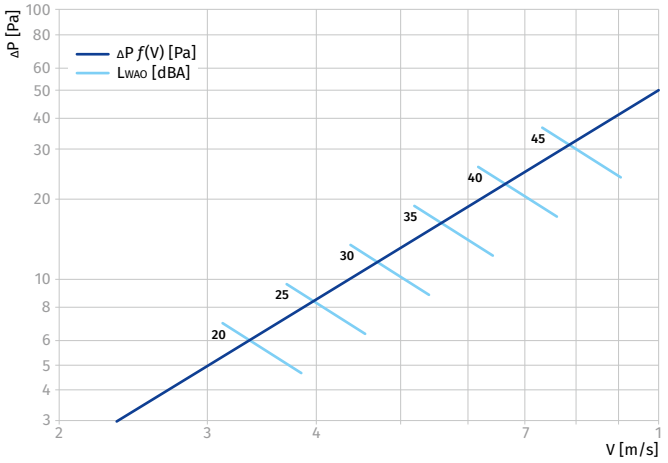
Opening dimensions: LxH (L – length [mm]; H – height [mm])
Length [cm]: 10; 15; 20; 25; 30; 35; 40; 45; 50; 60; 70; 80; 90; 100
Height [cm]: 10; 15; 20; 25; 30; 35; 40; 45; 50; 60; 70; 80; 90; 100

Grille fastening:
P: spring

Modifications:
_: no
A: adapter

Grille coating:
_: white colour
***colour*:** according to RAL
An: anodized
Zn: galvanized steel

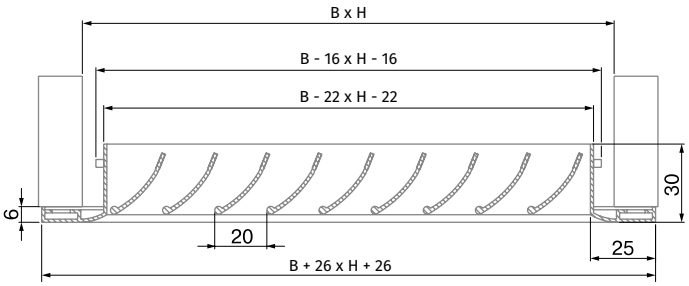
Pressure drop and sound power level



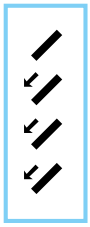
Calculation formula	Correction factor K						
$L_{WA} = L_{WAO} \times K$	S_{CS} [m²]	0.005	0.01	0.02	0.03	0.05	0.07	1
	K [dBA]	−13	−9	−6	−4.5	−3	−1.5	0

Designation key:
ΔP – pressure drop [Pa]
L_{WA} – sound power level [dBA]
L_{WAO} – sound power level for cross-sectional area of 0.1 m² [dBA]
K – correction factor for sound power level depending on cross-sectional area [dBA]
S_{CS} – cross-sectional area [m²]
V – design speed [m/s]

Overall and mounting dimensions



AIR FLOW DISTRIBUTION



Deflection angle of air flow guides – 45°

Cross-section dimensions and area [m²]

Height H [mm]	Length L [mm]													
	100	150	200	250	300	350	400	450	500	600	700	800	900	1000
100	0.004	0.007	0.010	0.012	0.015	0.018	0.021	0.024	0.027	0.033	0.039	0.045	0.051	0.057
150	0.070	0.010	0.015	0.018	0.023	0.027	0.031	0.035	0.039	0.047	0.055	0.064	0.072	0.080
200	0.010	0.015	0.021	0.026	0.033	0.038	0.045	0.051	0.058	0.070	0.081	0.093	0.105	0.115
250	0.012	0.018	0.026	0.032	0.041	0.047	0.055	0.062	0.070	0.084	0.098	0.106	0.113	0.128
300	0.015	0.023	0.033	0.041	0.051	0.059	0.069	0.077	0.086	0.096	0.115	0.132	0.149	0.168
350	0.017	0.026	0.038	0.047	0.059	0.068	0.080	0.090	0.099	0.111	0.132	0.151	0.170	0.193
400	0.020	0.030	0.044	0.054	0.069	0.079	0.093	0.103	0.117	0.142	0.166	0.189	0.212	0.237
450	0.023	0.035	0.051	0.062	0.080	0.090	0.107	0.117	0.131	0.160	0.186	0.214	0.239	0.265
500	0.026	0.039	0.056	0.070	0.089	0.100	0.119	0.130	0.145	0.178	0.206	0.238	0.265	0.293
600	0.031	0.047	0.067	0.084	0.105	0.121	0.142	0.158	0.173	0.214	0.246	0.287	0.318	0.349
700	0.036	0.055	0.078	0.094	0.124	0.145	0.170	0.184	0.203	0.251	0.288	0.336	0.372	0.408
800	0.042	0.063	0.090	0.112	0.141	0.163	0.190	0.211	0.232	0.288	0.330	0.385	0.426	0.467
900	0.048	0.072	0.103	0.129	0.160	0.185	0.228	0.238	0.262	0.325	0.372	0.435	0.481	0.527
1000	0.053	0.079	0.113	0.141	0.177	0.204	0.239	0.266	0.292	0.361	0.414	0.484	0.536	0.587