

# AL-SI1/ST-SI1

## TRANSFER GRILLES WITH FIXED VANES



### Characteristics:

A rectangular transfer ventilation grille made of aluminium or steel, with fixed vanes, covering compensation holes.



### Intended use

The AL-SI1(1) and ST-SI1(1) grilles are designed for ventilation installations as transfer (compensation) holes covers. They optimally mask the inside of a transfer hole.

### Design

#### AL-SI1 and AL-SI11 aluminium grilles

The AL-SI1 and AL-SI11 grilles are equipped with a frame and fixed vanes made of aluminium anodised to a natural colour or painted in RAL9010 white. Other RAL colours are available upon request. The AL-SI11 type is additionally equipped with a counterframe (without vanes) that allows two-sided masking of the compensation hole.

#### ST-SI1 and ST-SI11 steel grilles

The ST-SI1 and ST-SI11 grilles are equipped with a frame and fixed vanes made of steel profiles painted in RAL9010 white. Other RAL colour painting and galvanized or stainless steel versions are available upon request. The ST-SI11 type is additionally equipped with a counterframe (without vanes) that allows two-sided masking of the compensation hole.

### Net surface area

Approximate net surface area of the AL/ST-SI1(1) grilles

$A = 37\% \times [(C-32) \times (D-32)]$  – for the AL-SI1 and AL-SI11 grilles

$A = 43\% \times [(C-40) \times (D-40)]$  – for the ST-SI1 and ST-SI11 grilles



The technical data of the grilles, including pressure loss, noise level and stream ranges, is available at [smay.eu](http://smay.eu), in the document titled "Flow Characteristics for Grilles and Diffusers".

### Installation

The grilles can be fixed to a baffle with screws, through holes in the grille frame. For thicker baffles, we recommend using two AL-SI1 grilles (for baffle thickness exceeding 48 mm) or two ST-SI1 grilles (for baffle thickness exceeding 39 mm).

### Dimensions

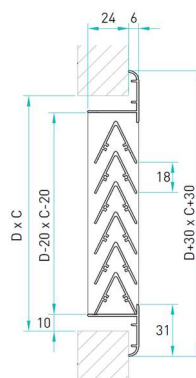


Figure 1. AL-SI1 grille dimensions

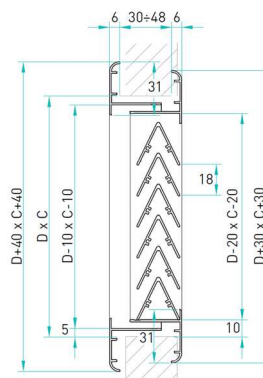


Figure 2. AL-SI11 grille dimensions

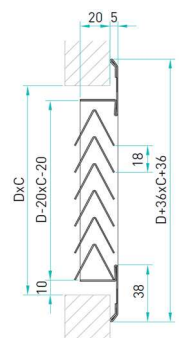


Figure 3. ST-SI1 grille dimensions

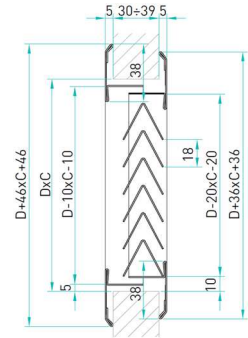


Figure 4. ST-SI11 grille dimensions

Standard dimensions of the AL/ST-SI1 (1) grilles:

- width **C = 125–1225 mm**
- height **D = 125–625 mm**

We can make custom-sized grilles or a set of multiple grilles (only for AL/ST-SI1) upon request.



Figure 5. Sectional view of a ST-SI1



Figure 6. Sectional view of a ST-SI11



## AL-SI1/ST-SI1 – Transfer grilles with fixed vanes

When ordering, please provide information according to the following pattern:

<Type> <W> – <C> x <D> – <G> – <P> <RAL> / <ADD>

Where:

|             |   |
|-------------|---|
| <b>Type</b> | grille type   |
|             | AL-SI – aluminium grille                            |
|             | ST-SI – steel grille                                |
| <b>W</b>    | kind*   |
|             | <b>1 – single grille</b>                            |
|             | 11 – grille with a counterframe                     |
| <b>C</b>    | mounting hole width in mm                           |
| <b>D</b>    | mounting hole height in mm                          |
| <b>G</b>    | baffle thickness (min. 30 mm; value 0 = irrelevant) |
| <b>P</b>    | finish*   |
|             | <b>SL – painted steel (ST-SI grilles)</b>           |
|             | SO – galvanized steel (ST-SI grilles)               |
|             | SN – stainless steel (ST-SI grilles)                |
|             | <b>AA – anodised aluminium (AL-SI grilles)</b>      |
|             | AL – painted aluminium (AL-SI grilles)              |
| <b>RAL</b>  | colour as per RAL (for SL or AL finishing)*         |
| <b>ADD</b>  | specify additional accessories here, as below:      |

Accessories\*\*

|             |  |
|-------------|--|
| <b>RM</b>   | assembling frame made of galvanised or stainless steel (only for AL/ST-SI1)                |
| <b>RM-F</b> | assembling frame made of galvanised or stainless steel, with a filter (only for AL/ST-SI1) |

\* optional values – if not specified, default values will be used

\*\* for more information, see the accessories data sheet

Order example: **AL-SI1-525x225-0-AL9010/RM**



Blocks for REVIT software,  
a selection programme and  
certificates are available at  
[www.smay.pl](http://www.smay.pl).