

# STR-STS

## VENTILATION GRILLES WITH A MESH FOR ROUND DUCTS



### Characteristics:

A rectangular air supply or exhaust ventilation grille made of steel, with a mesh, installed in round ducts.

### Intended use:

The STR-STS ventilation grilles are designed for use in low- and medium-pressure ventilation systems, in round ventilation ducts. They can be used as part of an air supply or exhaust system in a room.

### Design

The grille frame is made of steel painted in RAL9010 white. Other RAL colours are available upon request. The covering surface is made of a galvanised steel mesh (or stainless steel in the SN version) with a clearance of 65%, or a screen with a clearance of 58% (round mesh) or 51% (square mesh).

### Net surface area

Approximate net surface area of the STR-STS grilles:

$$A = 66\% \times [(C-20) \times (D-20)] \text{ - for the STR-STS1 grille}$$

$$A = 59\% \times [(C-20) \times (D-20)] \text{ - for the STR-STS2 grille}$$

$$A = 52\% \times [(C-20) \times (D-20)] \text{ - for the STR-STS3 grille}$$



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

Table 1. Maximum grille height depending on the ventilation duct diameter

Ventilation duct diameter $\varnothing$ [mm]	Maximum grille height $D_{max}$ [mm]
160	75
200	125
250	125
315	225
400	225
500	325
630	325
800	425

### Dimensions

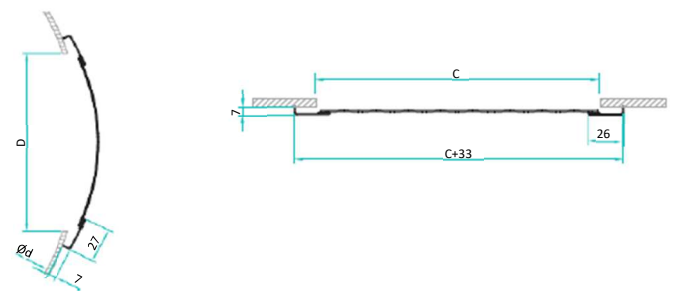


Figure 1. Standard STR-STS grille dimensions

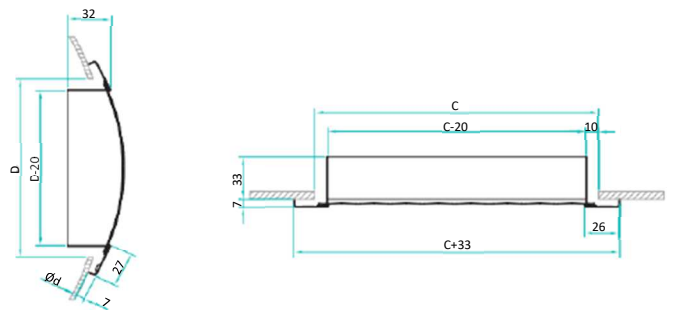


Figure 2. Dimensions of an STR-STS grille for installation with a damper

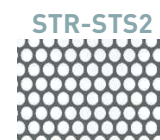
Standard dimensions of the STR-STS grilles:

- width **C = 75–1225 mm**
- height **D = 75–625 mm**

### Covering surface



expanded steel mesh (clearance of 65%)



steel round mesh (clearance of 58%)



steel square mesh (clearance of 51%)

### Installation

The grilles can be installed in ventilation ducts with screws, through holes in the grille frame.

SN

SL

RAL

# STR-STS – Ventilation grilles

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

**STR-STS<W> – <C>×<D> – <S> – <P><RAL> / <ADD>**

Where:

<b>W</b>	type of covering surface
	<b>1 – made of expanded mesh</b> 2 – made of round-mesh screen 3 – made of square-mesh screen
<b>C</b>	mounting hole width in mm
<b>D</b>	mounting hole height in mm
<b>S</b>	ventilation duct diameter in mm
<b>P</b>	finish*
	<b>SL – painted steel</b> SN – stainless steel
<b>RAL</b>	colour as per RAL (for SL finishing)
<b>ADD</b>	specify additional accessories here, as below**

## Accessories:

<b>GA</b>	backward damper made of aluminium
<b>GP</b>	backward damper made of galvanised steel
<b>GSN</b>	concurrent damper made of stainless steel
<b>GT</b>	slot damper made of galvanised steel
<b>GTN</b>	slot damper made of stainless steel

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

\*\* for more information about accessories, see the accessories data sheet for grilles and diffusers.

Order example: **STR-STS1 – 525×225 – 315 – SL9010 / GT**



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