## **KRS**

## **VENTILATION GRILLES WITH A SCREEN**







#### **Characteristics:**

A rectangular air supply or exhaust ventilation grille made of aluminium or steel, with a screen.

#### Intended use

The KRS grilles are used in low- and medium-pressure ventilation installations as part of an air supply or exhaust system. They offer a large surface area of free passage and low air flow resistance.

#### Design

#### Aluminium grilles (AA and AL)

The KRS grilles with aluminium frames are equipped with screens made of aluminium. The anodised version (AA) has a frame that is made of anodised aluminium, and the screen is made of aluminium. The aluminium frame can also be painted in other RAL colours (AL) upon request.

#### Steel grilles with a plastic screen (SP)

The KRS grilles with steel frames are equipped with screens made of white plastic (SP). The steel frames are painted white as standard.

#### Net surface area

Approximate net surface area of the KRS grilles:

A =  $92\% \times [(C-32) \times (D-32)]$  – for the aluminium screen (AA and AL)

 $A = 82\% \times [(C-40) \times (D-40)]$  – for the plastic screen (SP).



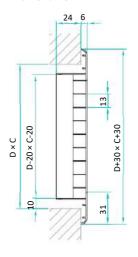
The technical data of the grilles, including pressure loss, noise level and stream ranges, is available at smay.eu, in the document titled "Flow Characteristics for Grilles and Diffusers"

#### Installation

The grilles can be installed:

- with screws through the holes in the frame (recommended for ceiling installation)
- with latches invisible from outside (an assembling frame or a plenum box required).

#### **Dimensions**



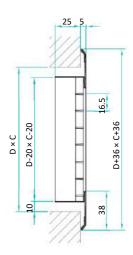


Figure 1. Dimensions of an aluminium KRS grille

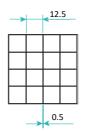


Figure 2. Dimensions of a steel KRS grille

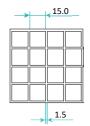


Figure 3. Dimensions of an aluminium screen (clearance

Figure 4. Dimensions of a plastic screen (clearance of 82%)

Standard dimensions of the KRS grilles:

- width C = 75-1225 mm (AA and AL), C = 75-610 mm (SP)
- height **D** = **125–625 mm** (AA and AL), **D** = **125–610 mm** (SP)

We can make custom-sized grilles or a set of multiple grilles upon request.

version 7.1.0



# **KRS** - Ventilation grilles with a screen

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

#### Where:

wilere:			
С	mounting hole width in mm		
D	mounting hole height in mm		
М	installation method*		
	none	- with screws	
	Z	– with an invisible latch	
Р	finish*		
	AA AL	– frame made of anodised aluminium, screen made of aluminium	
		– frame and screen made of painted aluminium	
	SP	– frame made of painted steel, screen made of white plastic	
RAL	frame colour as per RAL (for AL or SP finishing)*		
К	screen colour (for AL finishing)		
	<b>none</b> R	- screen with the same colour as frame - for a RAL9010 colour - screen with the same colour as frame - for colours other than RAL9010	

### ADD Accessories\*\*

GA	backward damper made of aluminium			
GP	backward damper made of galvanised steel			
GSN	concurrent damper made of stainless steel			
GT	slot damper made of galvanised steel			
GTN	slot damper made of stainless steel			
RM	assembling frame made of galvanised or stainless steel			
RM-F	assembling frame made of galvanised or stainless steel, with a filter			
L01	screen deflector with a clearance equal to 40%, made of galvanised steel			
L02	screen deflector with a clearance equal to 58%, made of galvanised steel			
NDS <s></s>	NDS connection pipe for round ducts (in the <s> field provide requested diameter of the connection pipe in mm)</s>			

specify additional accessories here, as below:

Plenum box as per the configuration below:

#### Where:

1	insulation*			
	none	– no insulation		
	t	- insulated		
н	plenum I	plenum box height in mm*		
K	connection pipe position*:			
	b	- side		
	g	– top		
D	connecti	connection pipe diameter in mm*		
R	damper	damper in a connection pipe*		
	none	- no damper		
	Р	– damper adjusted from outside the box		
	Pc	– damper adjusted from inside the box with a tie rod		
	Pd	– damper adjusted from inside the box with a lever		
P	design*			
	S0	- galvanised steel		
	SN	- stainless steel, quality 1.4301 [304 according to AISI, 0H18N9 according to PN]		
	SM	- stainless steel, quality 1.4404 [316L according to AISI, 0H17N14M2 according to PN]		

#### Order example:

#### KRS-425×425-Z-AL9010/SR-380-b250P



Blocks for REVIT software, a selection programme and certificates are available at www.smay.pl.

<sup>\*</sup> optional values – if not specified, default values will be used

<sup>\*\*</sup>for more information on accessories, see the accessories sheet