

## Description and application

Ventilation grilles double sides, have the function of equalizing-flow. They are part of the ventilation system to ensure flow between rooms and through building partitions. Grilles have still blades in the shape of an inverted V, blocking the visibility. Due to its construction grille flow are used in areas exposed to mechanical damage (boiler rooms, garages, gyms, as well as external air intakes louvres). On request it is possible to make the grille with damper allows adjustment of air. KWSP+M is set mounted primarily in the building partitions, door leaves and garage doors, where is the need to mask the ventilation hole from both sides of the wall/door. Assembly using visible screws in stamped holes in the frame grill or with pressed-in fitting in an additional mounting frame RM.

## Grille has Hygienic Certificate

## Material and workmanship

Grille and masking are entirely made from powder-coated galvanized sheet steel. On the special request it can be made of stainless steel or aluminum and painted in any RAL color. Masking frame MS is made of expanded metal mesh. If the grid KWSP should be in a different color than the masking, should such information be given in the order. Making an order give the information if the grille will be mounted inside or outside the building.

The manufacturer reserves the right to make technological changes.

## Size

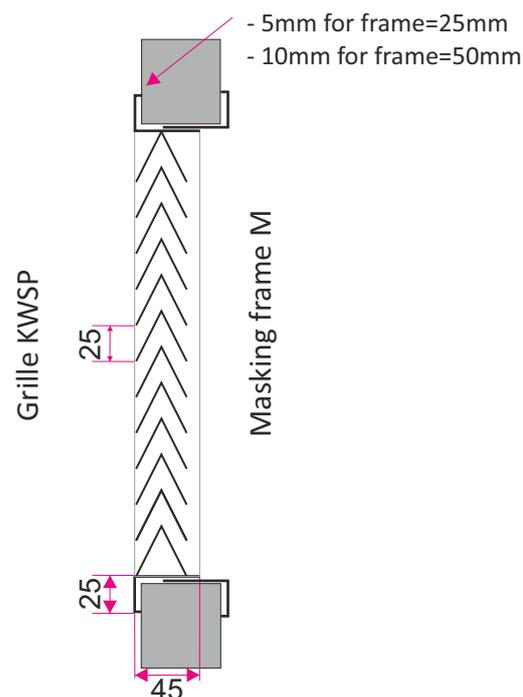
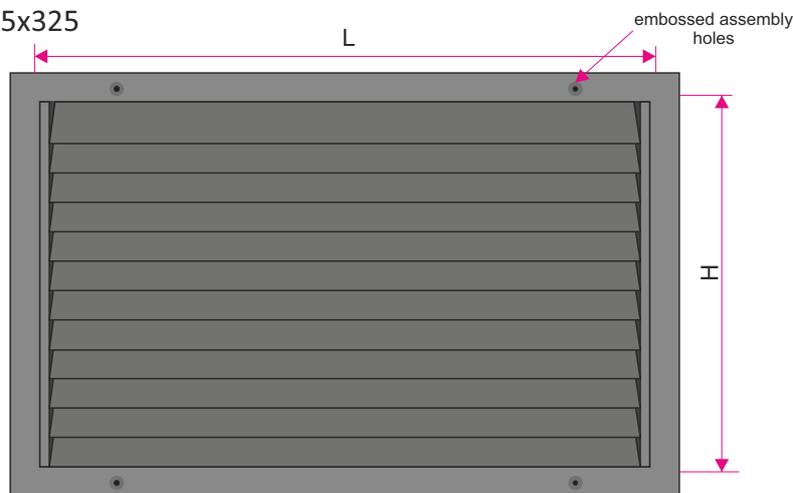
Grilles are manufactured to order. Grilles dimension by the customer request. For L>600 grille is divided. version of frame:

The width of the frame:

- 25mm for L or H < 1000mm

- 50mm for L or H † 1000mm

EXAMPLE 525x325



## Technical data - Surface effective air flow - KWSP+M

H \ L	225	325	425	525	625	825	1025	1225
mm	Aef (m <sup>2</sup> ) powierzchnia efektywna							
125	0,009	0,013	0,018	0,022	0,026	0,035	0,044	0,053
225	0,017	0,026	0,034	0,042	0,051	0,068	0,084	0,101
325		0,038	0,050	0,063	0,075	0,100	0,125	0,150
425			0,067	0,083	0,100	0,132	0,165	0,198
525				0,104	0,124	0,165	0,206	0,246
625					0,148	0,197	0,246	0,295

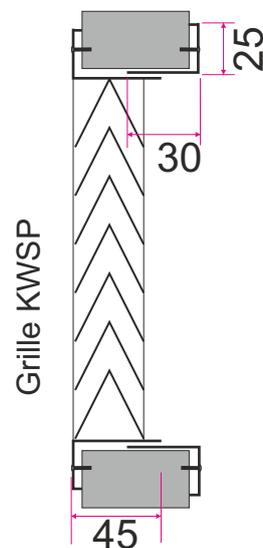
Grilles are made on request.

The dimensions in the table are only used for determine the effective area the grille.

## Akcesories - masking frame

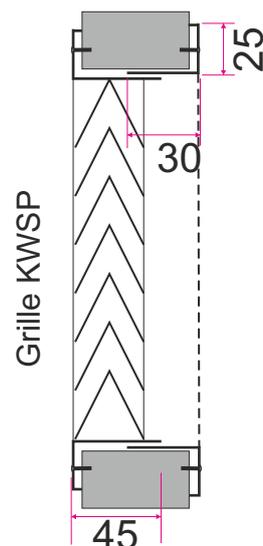
Masking frame are used to cover the imperfections of the other side of the hole, where in the grille KWSP is mounted. We offer three types of masking frame normally used complete with grille KWSP double sided.

### Masking frame - type **M**



Masking frame without mesh **M**

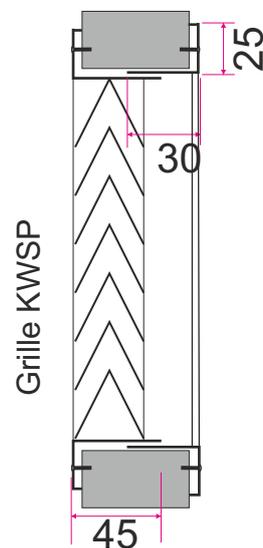
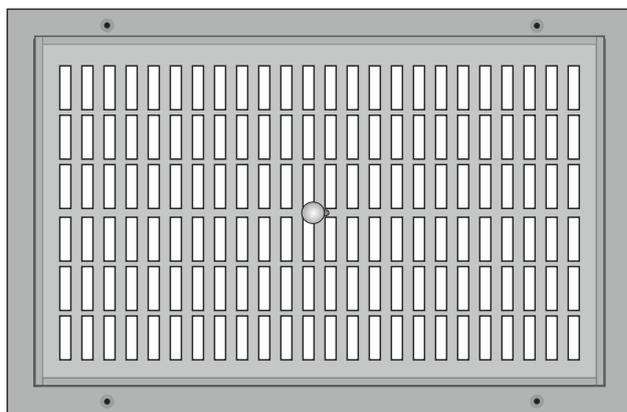
### Masking frame - type **MS**



Masking frame with mesh **MS**

**NOTE:** You can also install another grille from our offer (need to be agreed).

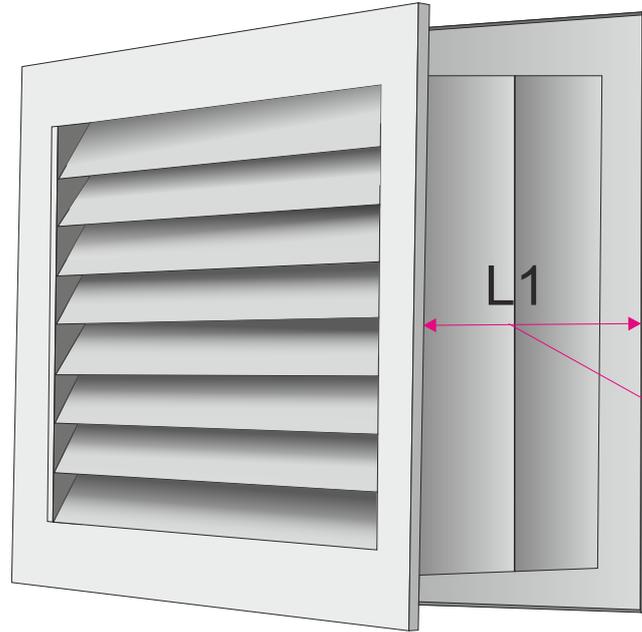
### Masking frame - type **GS**



Slot damper **GS**

**Methods of mounting**

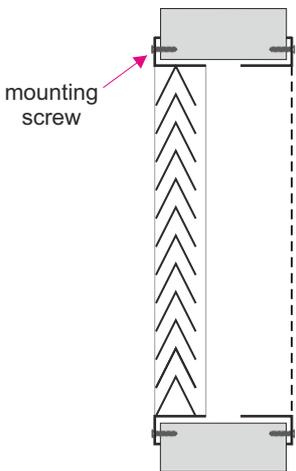
**KWSP**



**Masking frame:**  
M, MS, GS

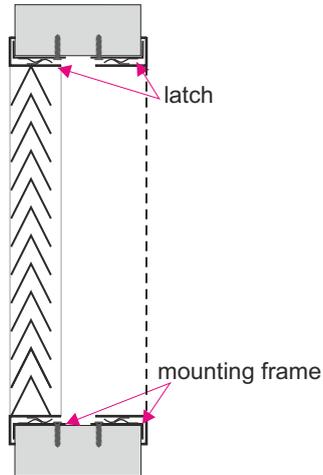
the depth of a tunnel  
in which is mounted a set

**W1**



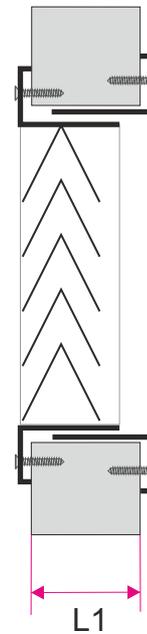
Assembling visible through  
screws and mounting holes  
in the grille frame.

**W2**



Assembling invisible by  
latches in grille and mounting  
frame RM or in plenum box.

Where a panel in which is mounted set  
(dimension L1) is less than the sum of the depth  
of the KWSP grille and masking frame we use  
telescopic connection with a variant assembly W1:



## The method of placing an order

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Please make orders according to the following formula:

**KWSP + 'G' / 'LxH' / 'L1' / 'RAL' / 'M' / 'W' / 'MM'**

'G'	- type of masking frame: <b>M</b> - masking frame without mesh <b>MS</b> - masking frame with mesh <b>GS</b> - slot damper
'LxH'	- mounting hole size (width x height) in mm
'L1'	- the depth of the tunnel / partition
'RAL'	- grille color according to RAL palette (standard RAL9016*)
'M'	- material: <b>OC</b> - powder coated steel* <b>AL</b> - aluminum powder coated <b>KO</b> - stainless steel / acid proof steel (type 1.4301 or 1.4404)
'W'	- mounting option: <b>W1</b> - visible assembly through screws in holes in grille front frame * <b>W2</b> - invisible mounting using latch springs and additional mounting frame
'MM'	- mounting place <b>W</b> - inside building <b>Z</b> - outside building (elevations, outside doors)

\* - If you don't give the information will be used standard parameters.