

COVERING/PROTECTION GRILLE KMM





These technical specifications state a row of manufactured sizes and models of covering/protection grilles (further only grilles) KMM. It is valid for production, designing, ordering, delivery, assembly and operation.

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II. GENERAL INFORMATION

1. Description

1.1. Grilles are used to cover side holes and free ends of piping, or to be fitted into the wall. Grilles prevent passing larger objects.

Grilles are fixed to side holes or free ends of duct with screws 6.3 x 16 according to EN ISO 1481. Free ends of duct are adapted by notching in corners up to length of "C" and bending. Corners remain free. Notching, bending, cutting the side holes out, boring, and fitting the grill is made during assembly.

- **1.2.** Grilles with frame for fitting to the wall are supplied as a unit.
- **1.3.** Grilles are designed for macroclimatic areas with mild climate according to EN 60 721-3-3 zm.A2. Grilles are suitable for systems without abrasive, chemical and adhesive particles. If is not noticed other way, all dimensions and weight are in millimeters and kilograms.

2. Design

- **2.1.** Grilles consist of a flange, panel made of tensile metal, and frame for fitting to wall if required. Dimensions A = 800 and higher have grilles provided with a central stiffening belt.
- **2.2.** Design of grilles by location is marked by first supplementary number next to dash in the ordering key.
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Marked by first supplementary number next to dash in the ordering key.

Tab. 2.2.1. Design of grilles by location

Design	Location	First supplementary number		
grilles with flanges	to sides of piping or free ends of piping	.2		
grilles with flanges, frame and holders	for installation in the wall	.3		

2.3. Design of grilles by surface painting

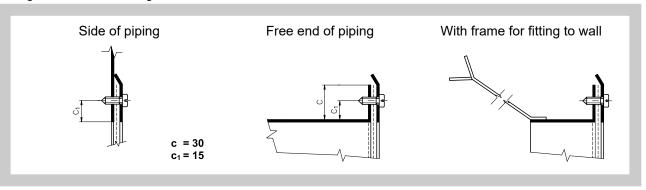
Marked by second supplementary number next to dash in the ordering key.

Tab. 2.3.1. Design of grilles by surface painting

Design	Second supplementary number	
	- ground coat	.x0
Curfo on transment by pointing	- RAL 9010 - shade - white	.x1
Surface treatment by painting	- RAL 9001 - shade - cream	.x2
	- RAL 9006 - shade - aluminium	.x3
AtyFigal shade - agreement with the i	.x9	

2.4. Detail of mounting

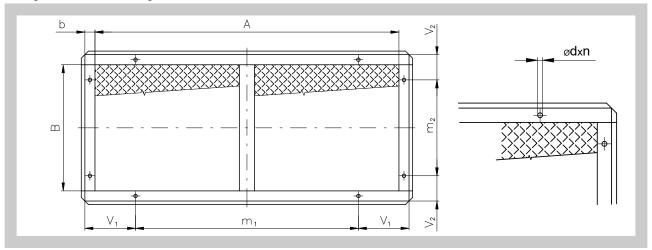
Fig. 1 Detail of mounting





3. Dimestions and weights

Fig. 2 Dimensional diagram



Tab. 3.1.1. Dimestions and weights

	1				l	l		ı	1 10/	41-						
								Holders	Weigth							
AxB	V ₁	m₁	V ₂	m ₂	b	d	n	pcs.		Design 						
									.2	.3						
125 x 125 160 x 125	92,5	-	92,5 92,5	-					0,30 0,35	0,80						
x 160	110	-	110	-					0,35	1,00						
200 x 125			92,5				4		0,40	1,00						
x 160	130	_	_	_	130 -	130 -	130 -	130 -	110	_					0,45	1,10
x 200			130					2	0,50	1,25						
250 x 125			92,5						0,45	1,15						
x 160	60	190	110	-			6		0,50	1,25						
x 200		130	130			<u> </u>			0,60	1,30						
x 250			60	190			8		0,65	1,55						
315 x 125 x 160	-		92,5 110				6		0,60 0,70	1,60 1,65						
x 200	60	255	130	-			0		0,75	1,80						
x 250	┨ ~~	200		190			_		0,80	1,90						
x 315			60	255			8	4	0,95	2,15						
400 x 160			110				6		0,80	1,90						
x 200			130	-			6		0,90	2,10						
x 250	110	240	60	190					0,95	2,15						
x 315				255		8		1,10	2,45							
x 400			110	240					1,30	2,80						
500 x 200 x 250	-		130	- 190	30	7		-	1,10 1,25	2,45						
x 250 x 315	110	170	60	225			10		1,25	2,75 2,95						
x 400	- '''	170		170		240			10		1,40	3,05				
x 500	1		110	170			12	6	1,60	3,50						
630 x 250				190				,	1,35	2,85						
x 315			60	225			10	4	1,45	3,10						
x 400	110	235		240					1,65	3,50						
x 500			110	170			12	6	1,80	4,00						
x 630				235					2,30	4,50						
800 x 315	4		60	255			10	4	2,40	5,50						
x 400 x 500	110	110 320	110	240 170				6	2,70 2,80	6,00 6,50						
x 630	110			235		12		3,00	7,00							
x 800	1			320			14	8	3,50	8,00						
1000 x 400				240		10	10		2,90	6,50						
x 500	110	110 420	110	170				6	3,30	7,50						
x 630] 110		110	235			12		3,60	8,00						
x 800				320		1			4,20	9,00						
1250 x 500				170				8	4,20	9,00						
x 630	110	363	110	235			14	40	4,50	9,50						
x 800	1			320		l	1	10	4,90	10,50						

If is required, we can supply all inter-dimensions of above given basic range.



III. TECHNICAL DATA

4. Basic parameters

- 4.1. Active surface area 78 %.
- Coefficients of pressure losses: 4.2.

Up to size A = 630	on inlet side - on outlet side -	$\xi = 2,2$ $\xi = 1,5$
From size A = 800	on inlet side - on outlet side -	$\xi = 2.4$ $\xi = 1.7$

Pressure loss

4.3. Pressure loss calculation:

$$\Delta p = \xi \cdot \rho \cdot \frac{v^2}{2}$$

[Pa] Δp air flow speed in nominal grilles section [m.s⁻¹] ρ Air density [kg.m⁻³]

coefficient of local pressure loss for the nominal grilles section ξ [-]

IV. MATERIAL, FINISHING

5. Material

5.1. The grille flanges and panels from tensile metal are made of material class 11 and coated according Tab 2.3.1. Frames for fitting to the wall are provided only with a ground coat.

V. PACKING, TRANSPORTATION, TAKE-OVER, STORAGE AND GUARANTEE

6. Logistic terms

- Grilles are suplied packed in shrink foil. While transported and stored they must be protected 6.1. against mechanical damage and weather conditions.
- 6.2. If no method of take-over is mentioned in the order, handing the goods over to the carrier will be considered as a take-over.
- 6.3. Grilles have to be stored in covered buildings, in the environment without aggressive steams, gases and dusts.

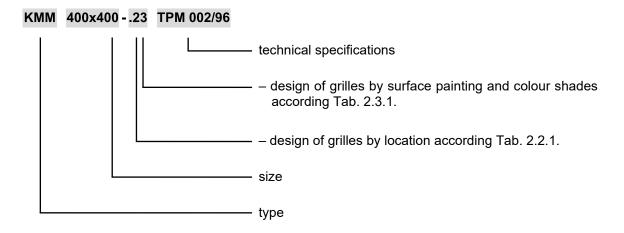
7. Guarantee

7.1. The manufacturer provides a guarantee to the cover grilles for the period of 24 months from the date of shipment.



VI. ORDERING INFORMATION

8. Ordering key



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