

Innovative applications of plastics

AMARGO

Gratings - Data Sheets

Type A 980 (13), A 980 (18), A 830 (13), 830 (18), 780 (13), 780 (18), Type D 900x700x51mm,
Type S 1600x900x70mm, BT Type 25 1198x499x20mm

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Technical Data

Polypropylene grills TYPE A 780, A 830, A 980, BT 25, S, D

BRIDGE GRATINGS VEMA OF POLYPROPYLENE

Grill type A

The following parameters relate to gratings A-780, A-830 and A-980 (for one piece).
Depending on the size and number of holes gratings are determined as follows:

- A-980 (13), hole size 13 x 65mm, number of holes 240
- A-980 (18), hole size 18 x 65mm, number of holes 180
- A-830 (13), hole size 13 x 65mm, number of holes 200
- A-830 (18), hole size 18 x 65mm, number of holes 160
- A-780 (13), hole size 13 x 65mm, number of holes 190
- A-780 (18), hole size 18 x 65mm, number of holes 150

Dimensions of grids:

- A-980 (13, 18), 1000x980x60mm

- A-830 (13, 18), 1000x830x60mm

- A-780 (13, 18), 1000x780x60mm

Tolerance on size of the grid:

- A-980 (13, 18), 1000 ±2mm x 980 ±2mm

- A-830 (13, 18), 1000 ±2mm x 830 ±2mm

- A-780 (13, 18), 1000 ±2mm x 780 ±2mm

Weight:

- A-980 (13, 18), 13,0kg ±0,5kg

- A-830 (13, 18), 11,0kg ±0,5kg

- A-780 (13, 18), 10,7kg ±0,5kg

The maximum tolerance of strain in the length and width (in the unladen):

- 1000mm (side with no outlet) - 3mm
- 980mm, 830mm and 780mm (side with the outlet) - 11 mm

The maximum load capacity of gratings:

- A-980 (13); 7,5kN/m²; (750kg/m²)
- A-980 (18); 6,0kN/m²; (600kg/m²)
- A-830 (13); 7,5kN/m²; (750kg/m²)
- A-830 (18); 6,0kN/m²; (600kg/m²)
- A-780 (13); 7,5kN/m²; (750kg/m²)
- A-780 (18); 6,0kN/m²; (600kg/m²)

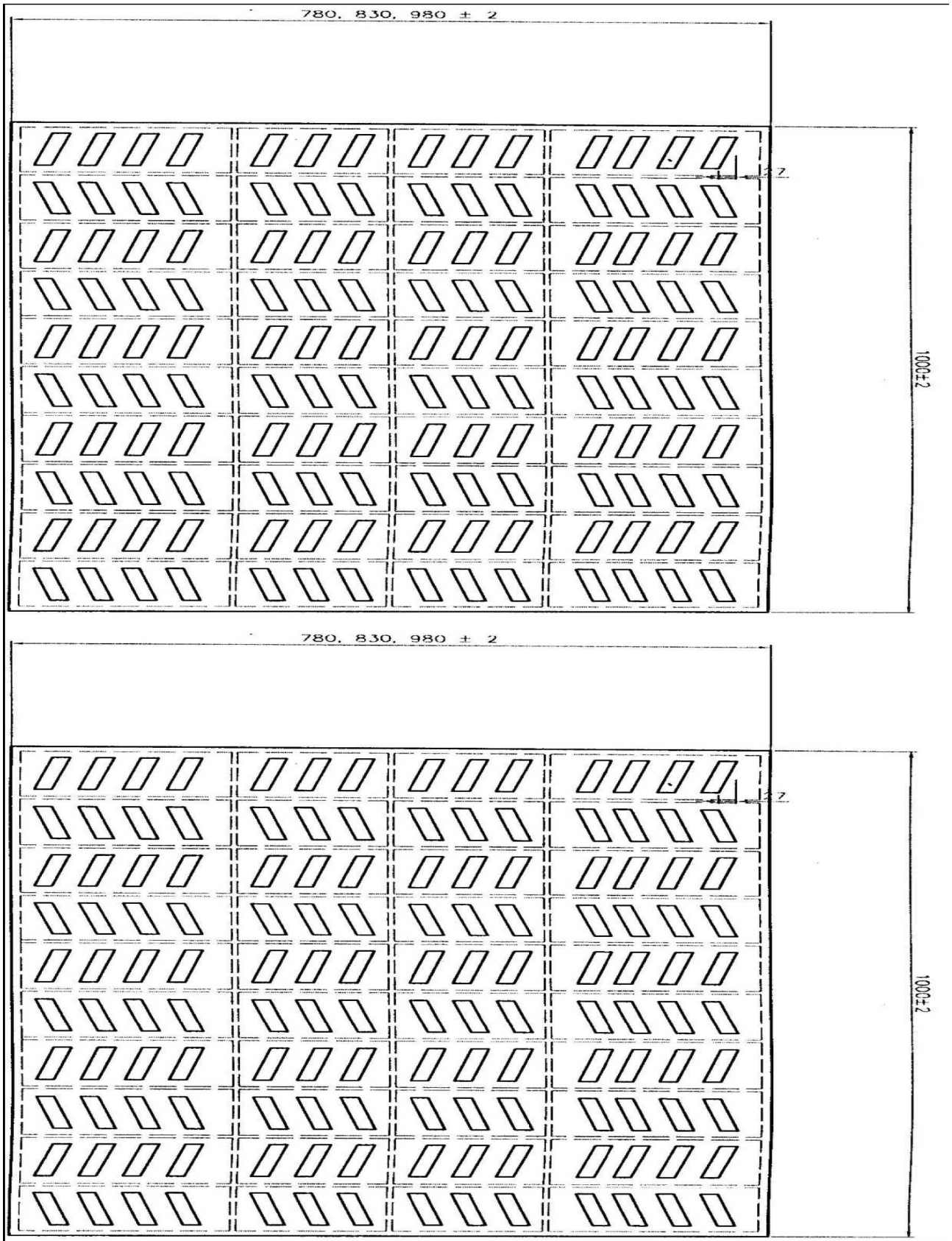
To keep the parameters of the load, rack should be installed in accordance with its contoured design. Any change in the dimensions by cutting the bridge grating should always guarantee the ability to install - support for load-bearing elements - the vertical ribs. In other cases, the strength parameters are not preserved.

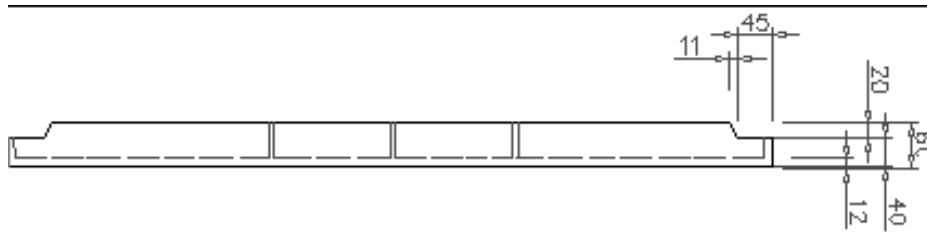
Grills connected together by means of special "inlets" and "outlets", which prevents them from moving and the formation of cracks.

Physical and mechanical properties of all gratings (TYPE A, D, S, BT 25):

PARAMETER	UNIT	NORM	VALUE
Density	g/cm ³	64 0111	0,880 - 0,890
Minimum Yield Stress	MPa	EN ISO 527	20
Minimum elongation at yield	%	EN ISO 527	2,0
Modulus of elasticity (Bendig / Tension)	MPa	EN ISO 527/178	1400/1500
Boundary resistance to flexural	MPa	EN ISO178	41
Minimum hardness tested by the method of ball insertion	MPa	EN ISO 2039	61

A Sketch of grids 780, A 830, A 980





Dimensions in mm.

Grill type D

The following parameters apply to gratings TYPE D (for one piece).

Dimensions of grids:

- 900 x 700 x 51 mm

The size of the holes in the grid:

- 15 x 43mm

Tolerance size of the grid:

- $900 \pm 700 \pm 3\text{mm} \times 3\text{mm}$

Weight:

- $4.7 \text{ kg} \pm 0.2 \text{ kg}$

The maximum tolerance of strain in the length and width (in the unladen):

- 5mm

Maximum load of platform grating:

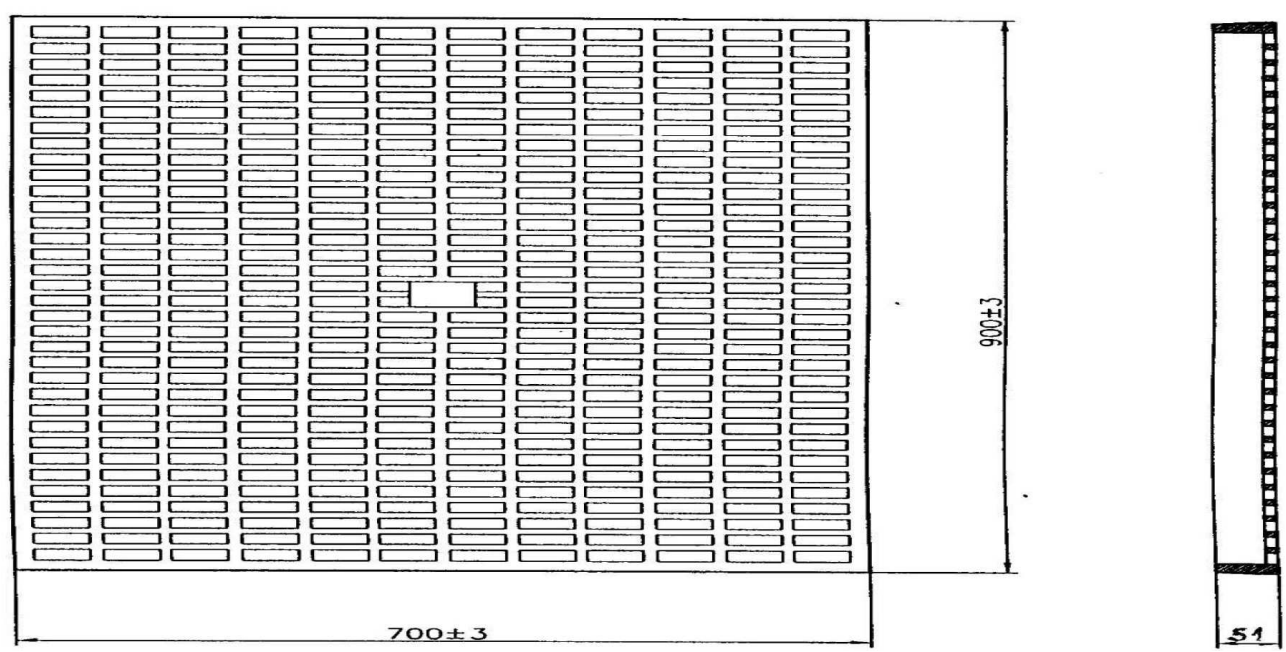
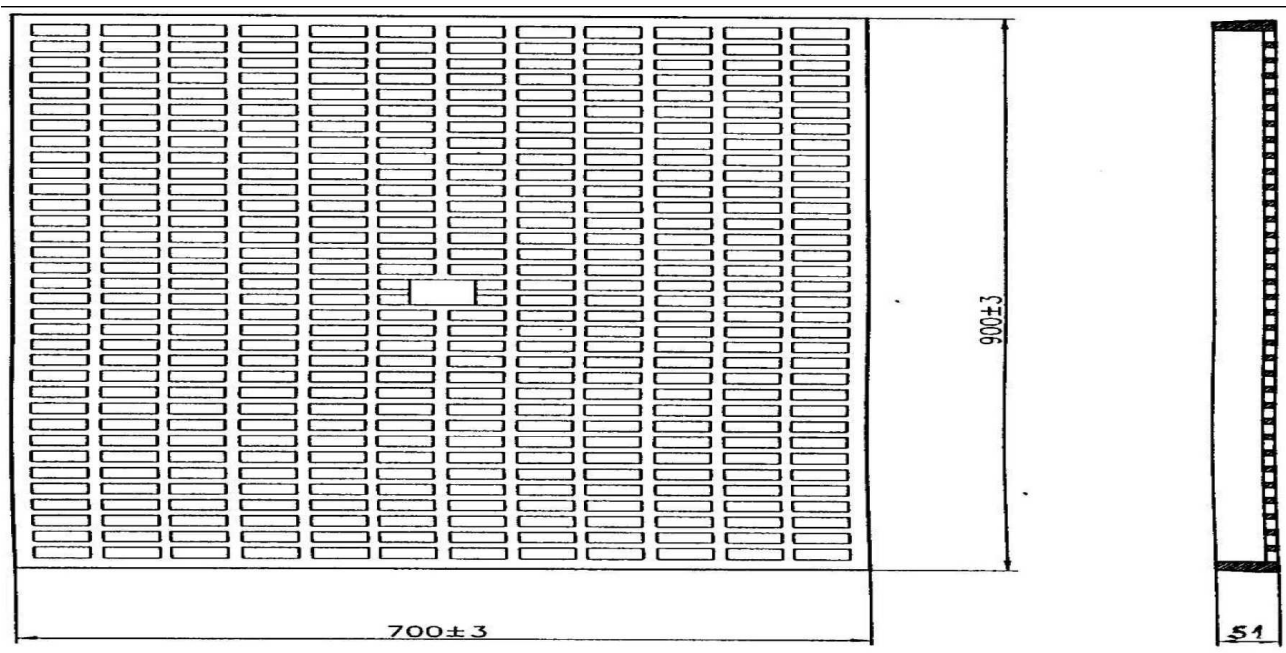
- At support on the long side (900mm), load capacity is 3.5 kNm² (350kg/m²)

- At support on the short side (700mm), load capacity is 3.2 kNm² (320kg/m²)

Any change in the dimensions by cutting the platform grating should always ensure the possibility to install - support for load-bearing elements - the vertical ribs. In other cases, the strength parameters are not preserved.

Polypropylene grills TYPE A 780, A 830, A 980, BT 25, S, D

Sketch grate TYPE D



Dimensions in mm.

Grill type S

The following parameters apply to gratings TYPE S (for one piece).

Dimensions platform grating:
 - 1600 x 900 x 70mm

Tolerance size of the grid:
 - $1600 \pm 900 \pm 2$ mm x 2mm

Weight:

- 21.7 ± 0.5 kg

The maximum allowable tolerance of strain in the length and width (in the unladen):

- 8mm

Maximum load platform grating:

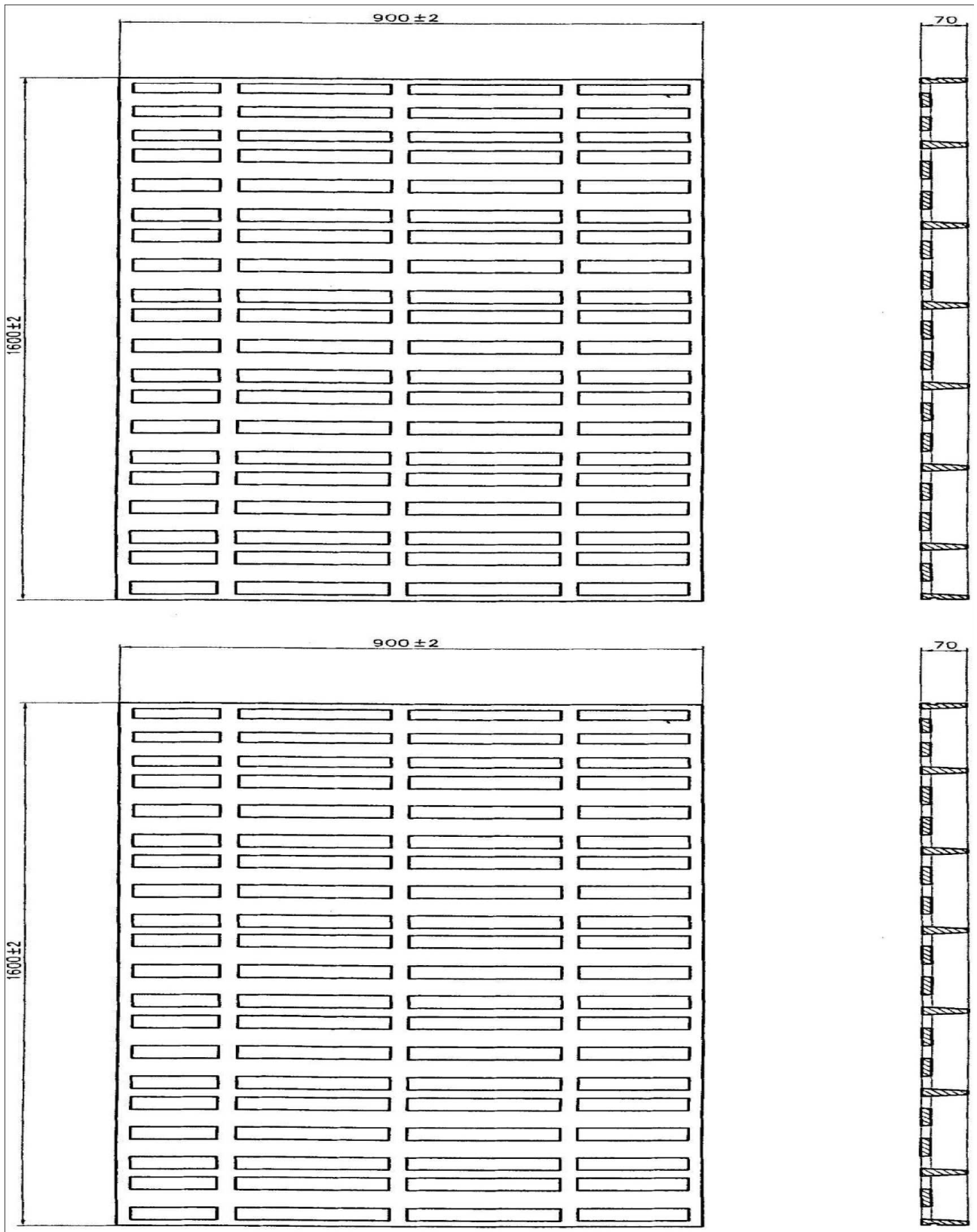
- At support on the long side (1600mm), load capacity is 9kNm² (900kg/m²)

- At support on the short side (700mm), load capacity is 3.0 kNm² (300kg/m²)

Any change in the dimensions by cutting the platform grating should always ensure the possibility to install - support for load-bearing elements - the vertical ribs. In other cases, the strength parameters are not preserved.

Polypropylene grills TYPE A 780, A 830, A 980, BT 25, S, D

Sketch grate TYPE S



Dimensions in mm.

Grill type BT25

The following parameters apply to gratings TYPE BT 25 (for one piece).

Dimensions of platform grating:

- 1198 x 499 x 20mm

Tolerance size of the grid:

- $1198 \pm 499 \pm 3$ mm x 2mm

Weight:

- 12.6 kg \pm 0.5 kg

The maximum allowable tolerance of strain in the length and width (in the unladen):

- 8mm

Maximum load platform grating:

- At the support of the full circuit of grid, load capacity is 5kNm² (500kg/m²)

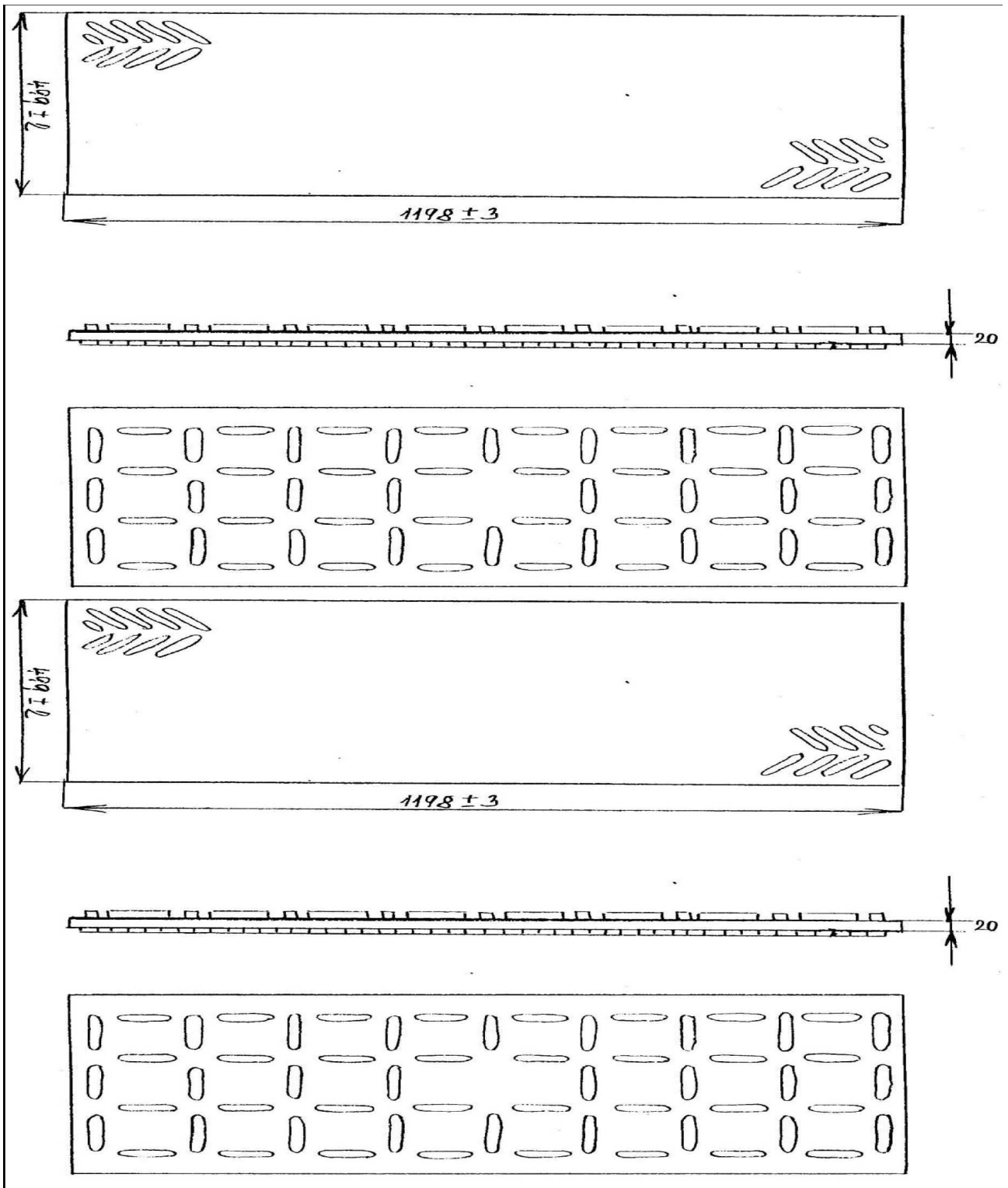
- At support on the long side (1198mm), load capacity is 5kNm² (500kg/m²)

- At support on the short side (499mm) capacity is 0.5 kNm² (50kg/m²)

Any change in the dimensions by cutting the platform grating should always ensure the possibility to install - support for load-bearing elements - the vertical ribs. In other cases, the strength parameters are not preserved.

Polypropylene grills TYPE A 780, A 830, A 980, BT 25, S, D

Sketch of grill TYPE BT 25



Dimensions in mm.