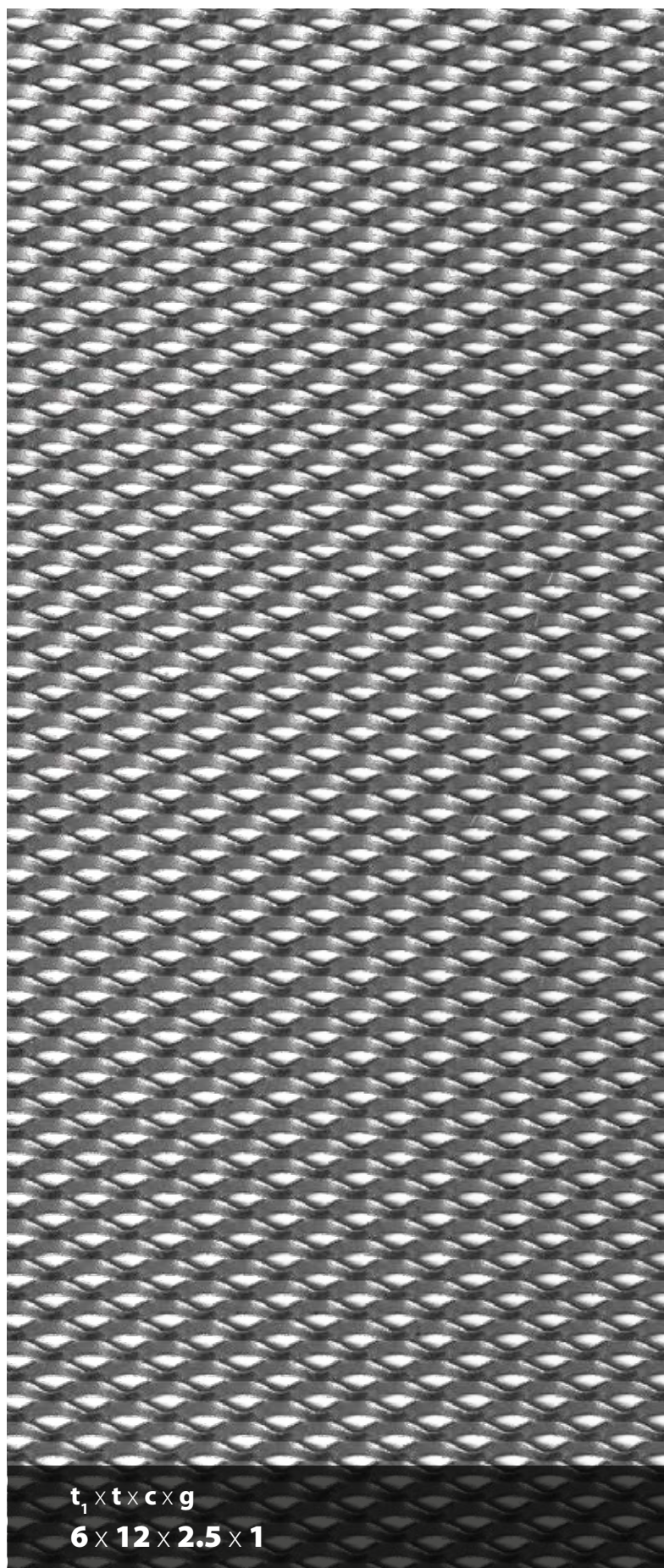
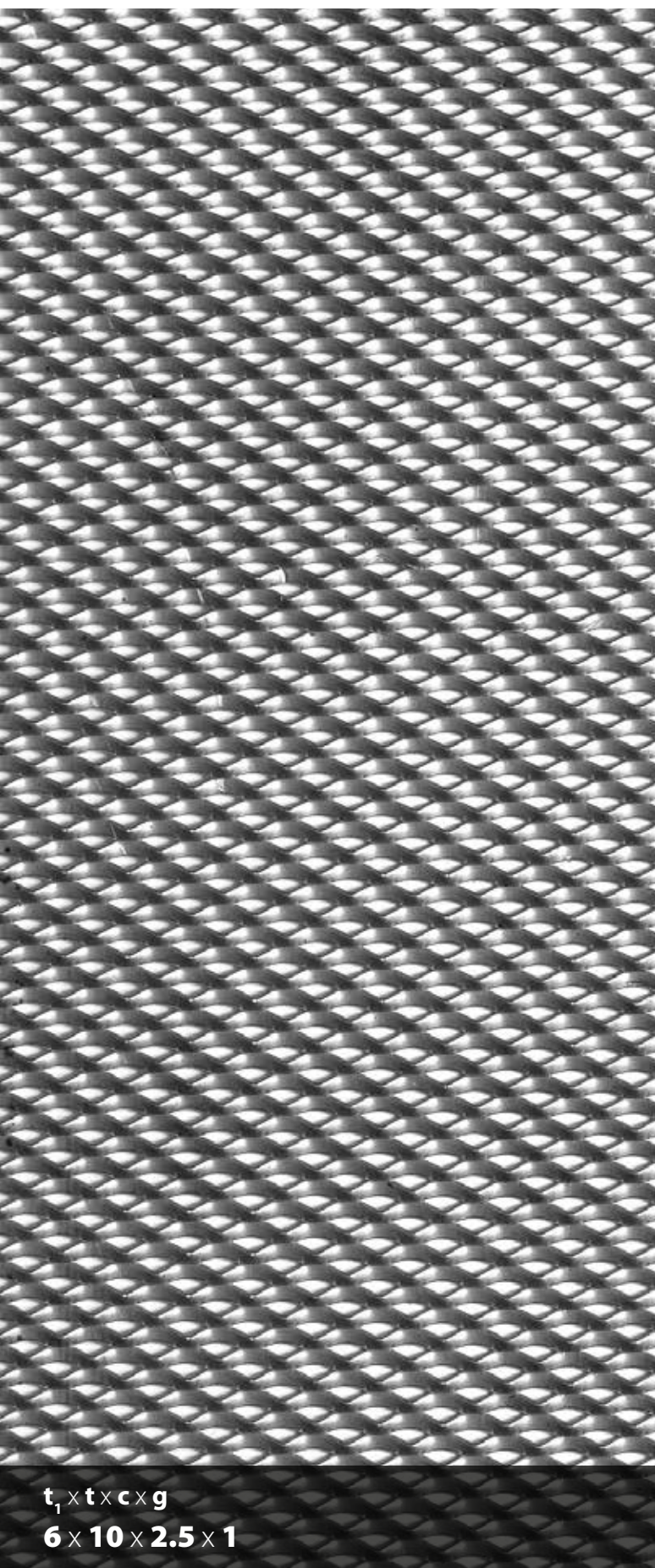
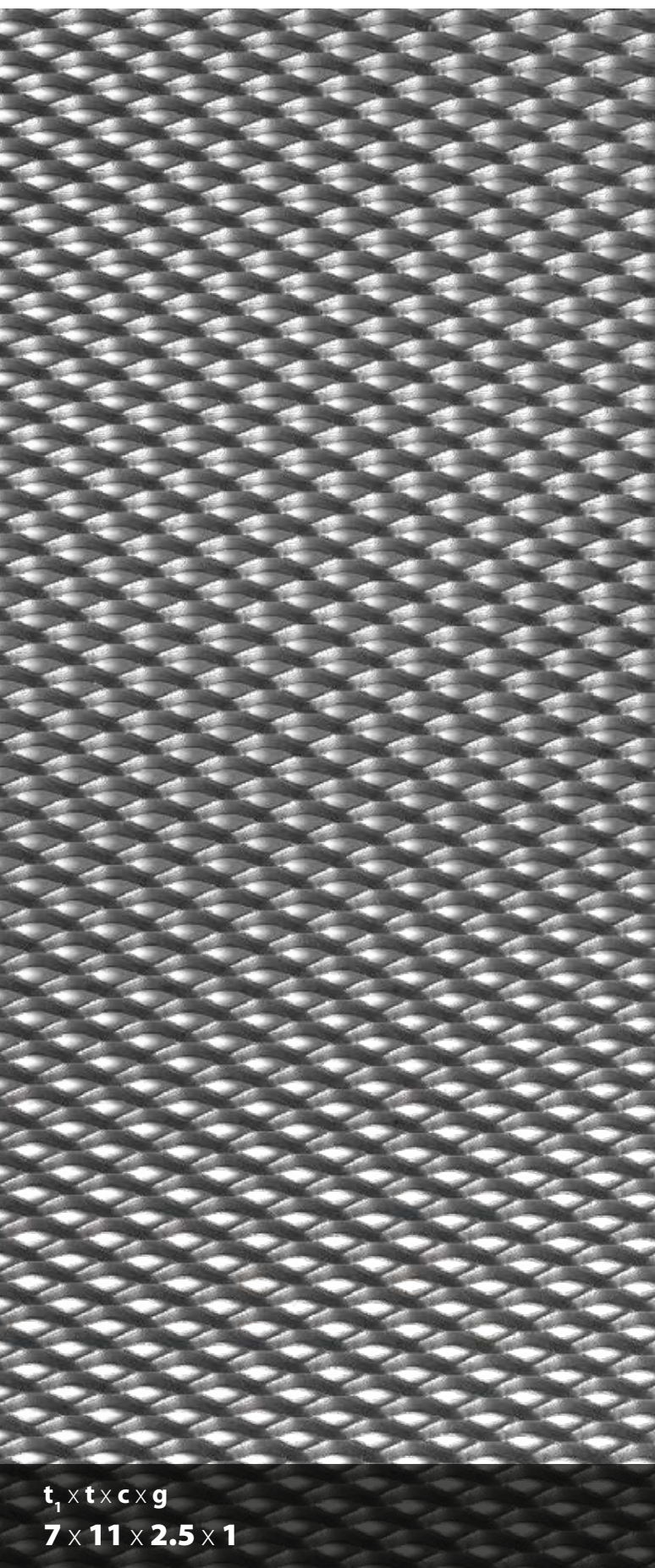
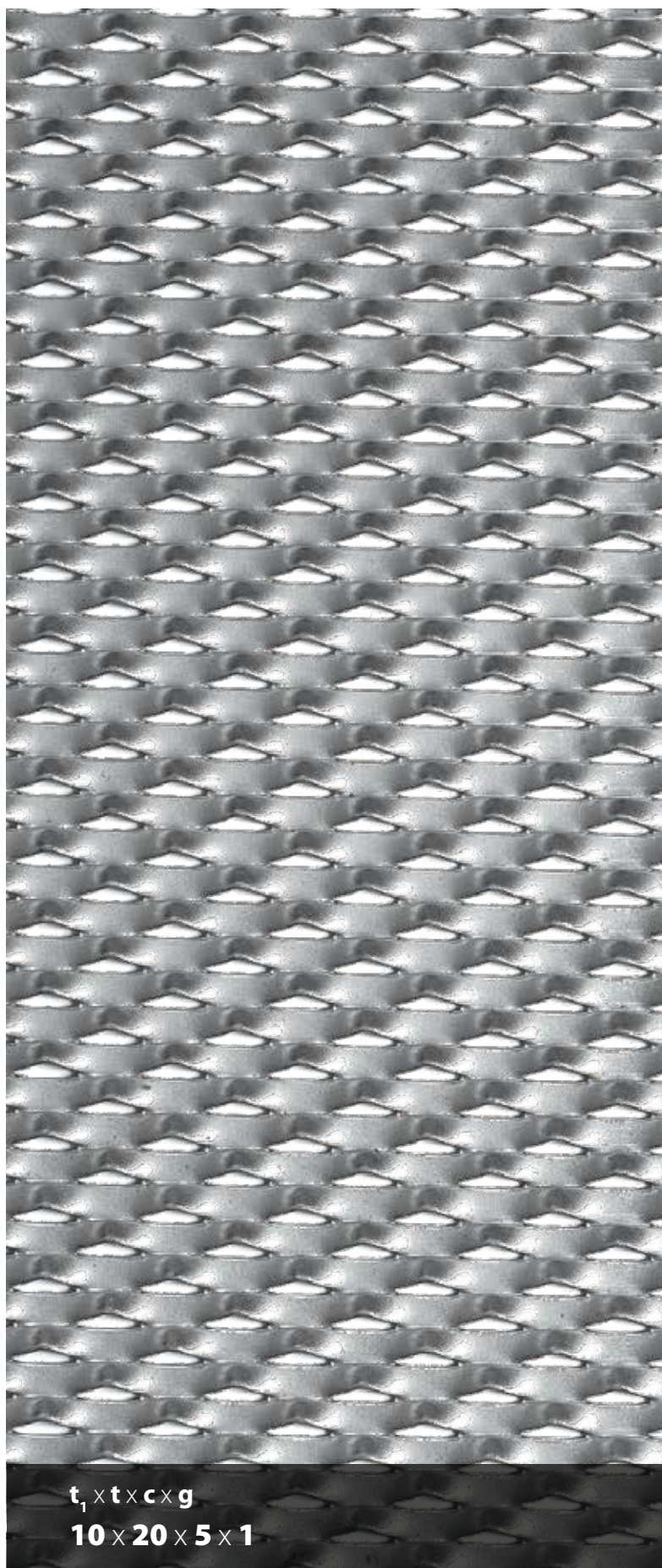


GALLERY OF MESHES IN 1:1 SCALE



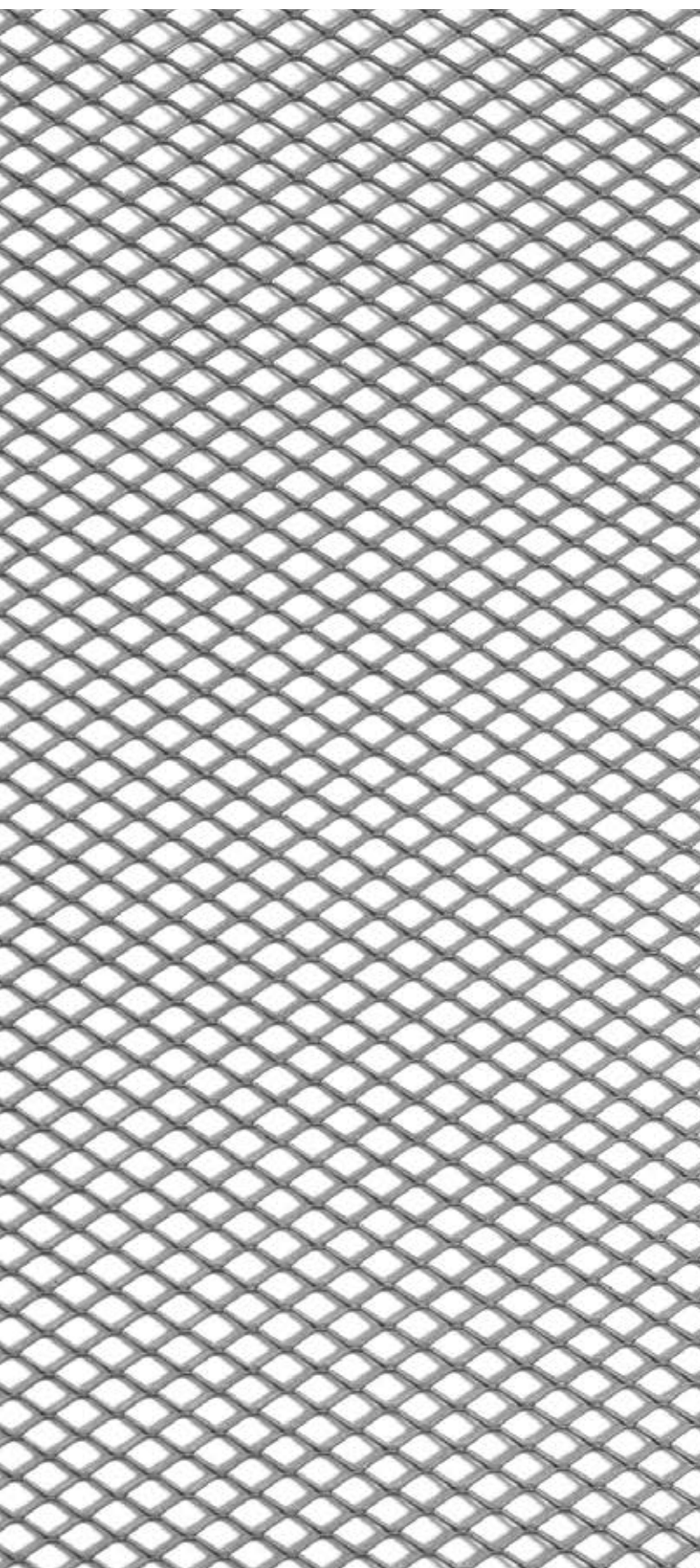


$t_1 \times t \times c \times g$
7 × 11 × 2.5 × 1

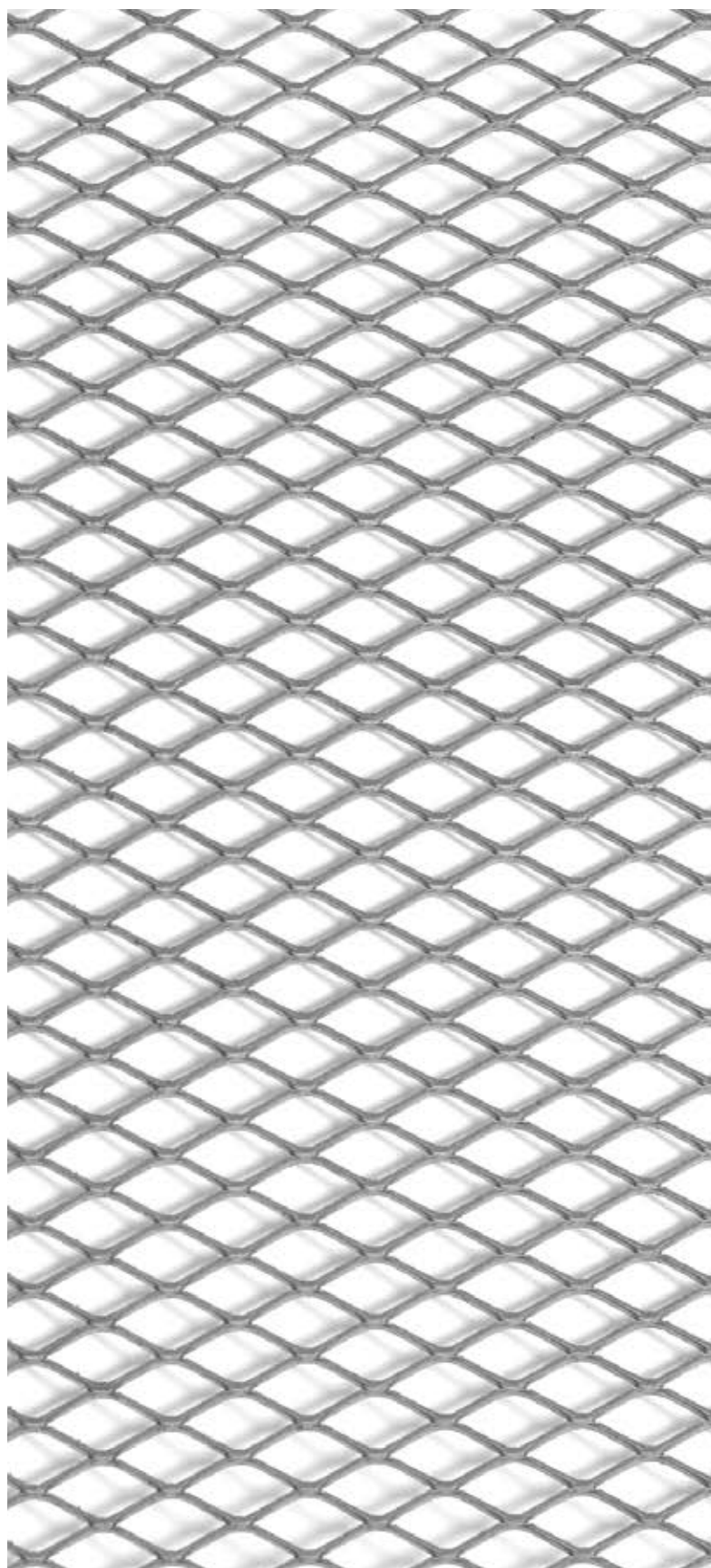


$t_1 \times t \times c \times g$
10 × 20 × 5 × 1

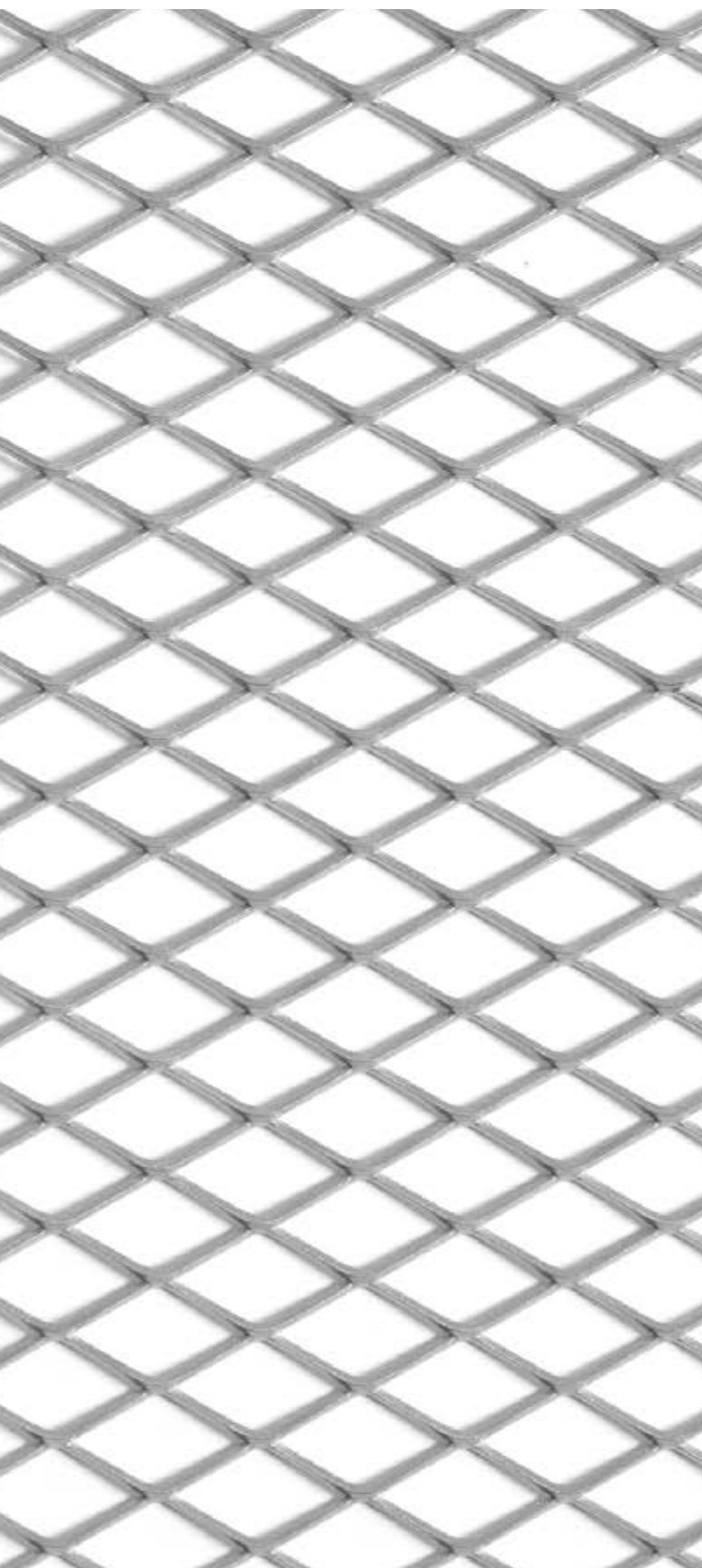
GALLERY OF MESHES IN 1:1 SCALE



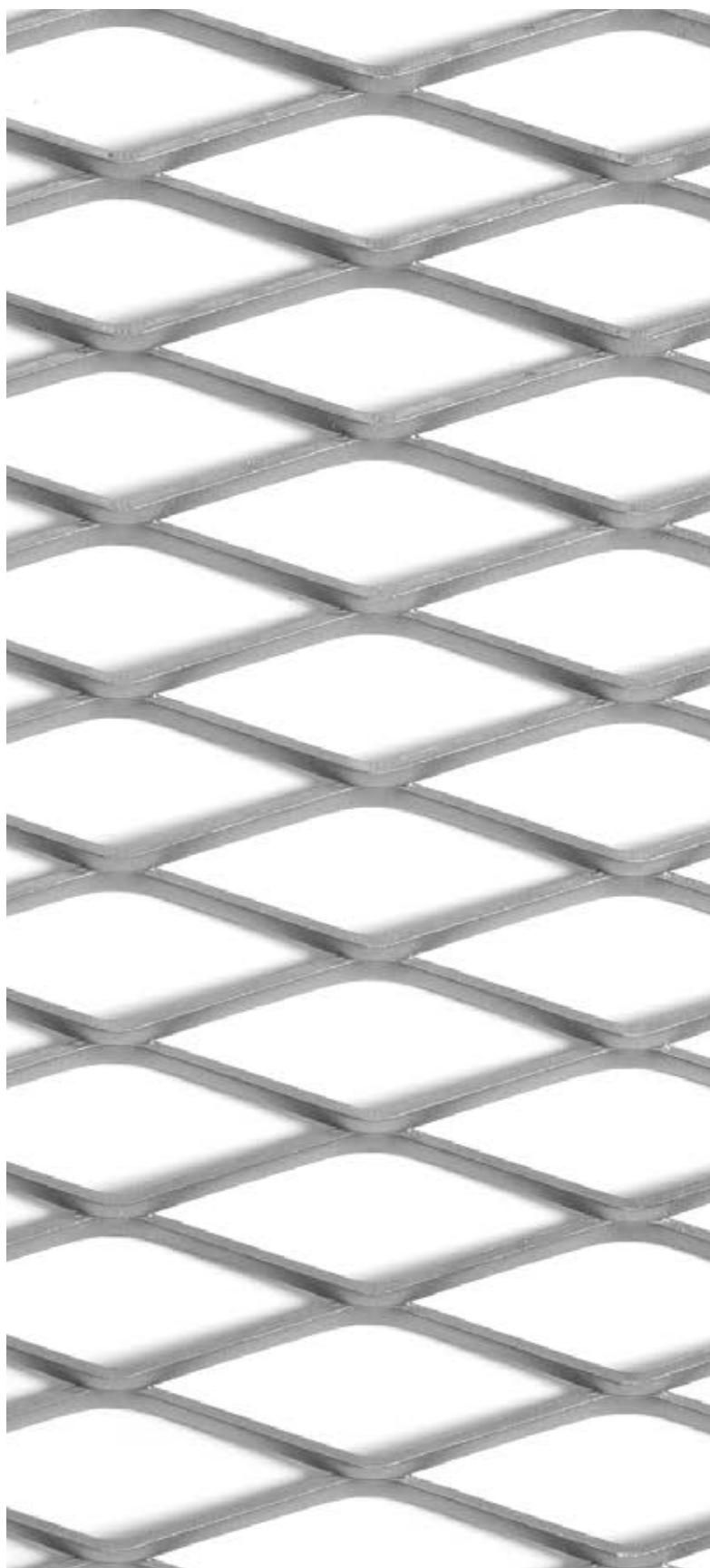
$t_1 \times t \times c \times g$
6 x 10 x 1 x 1



$t_1 \times t \times c \times g$
10 x 20 x 1.6 x 1

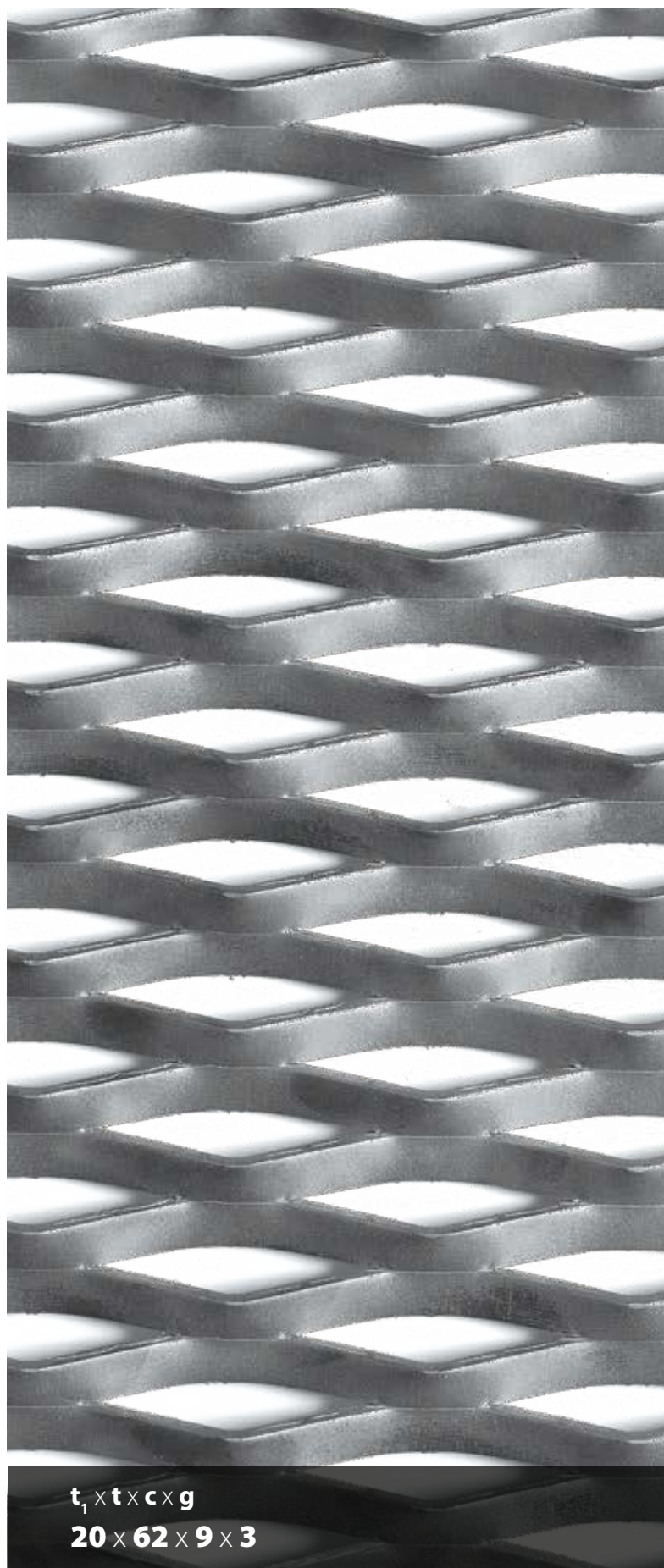


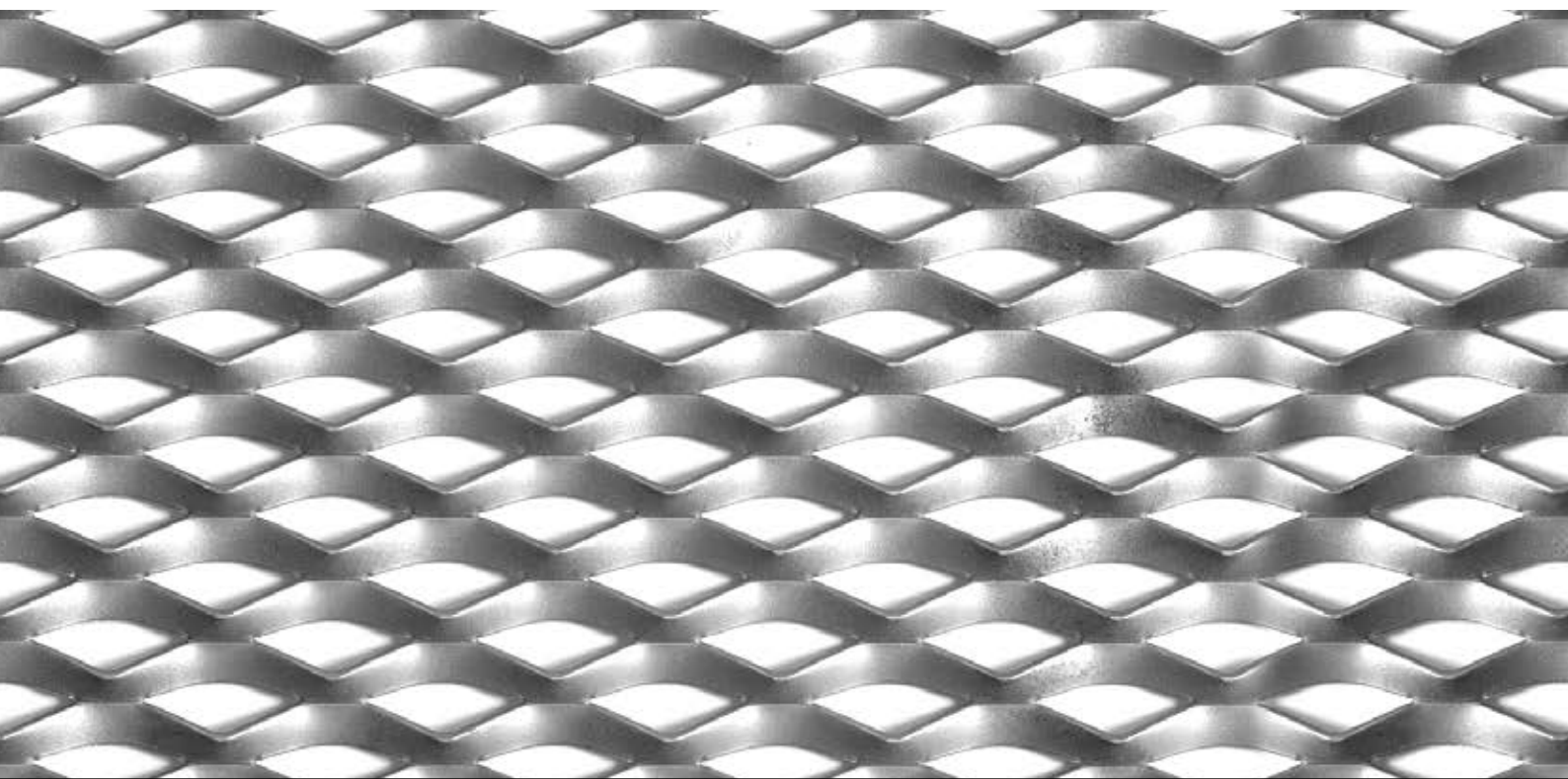
$t_1 \times t \times c \times g$
16.5 × 30 × 2 × 1.5



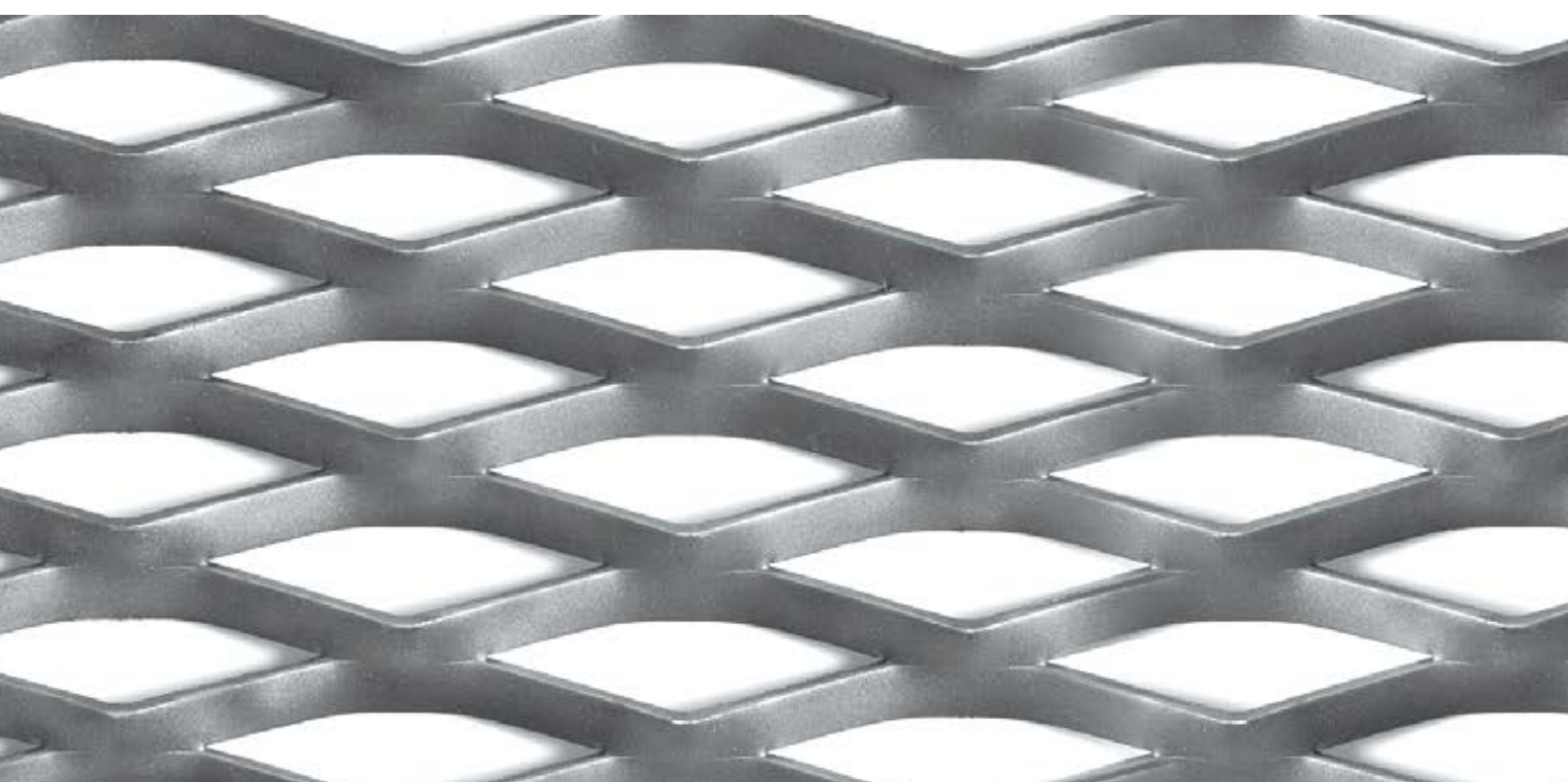
$t_1 \times t \times c \times g$
25 × 75 × 4.5 × 2

GALLERY OF MESHES IN 1:1 SCALE



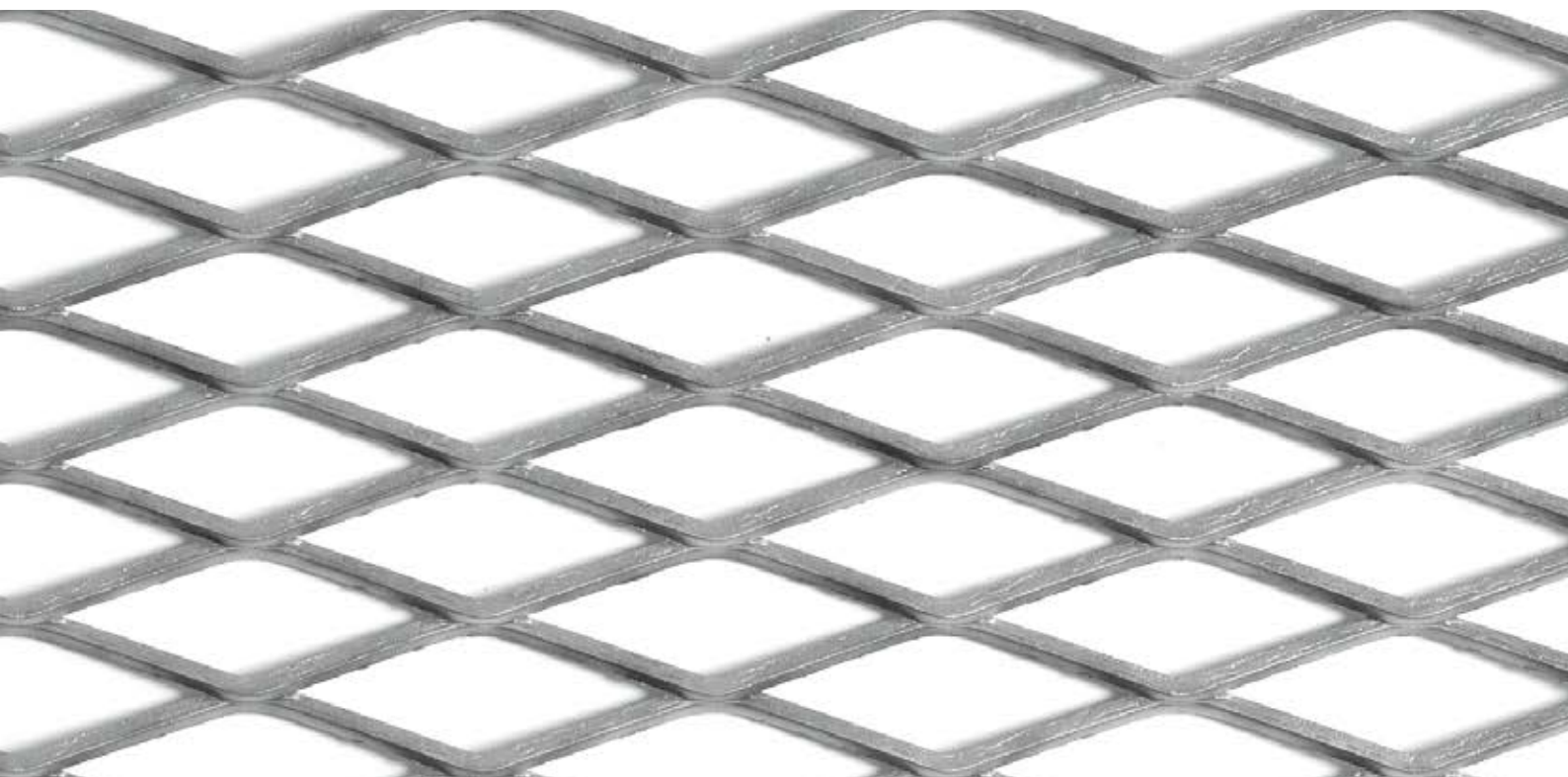


$t_1 \times t \times c \times g$
16.5 × 30 × 6 × 1.5

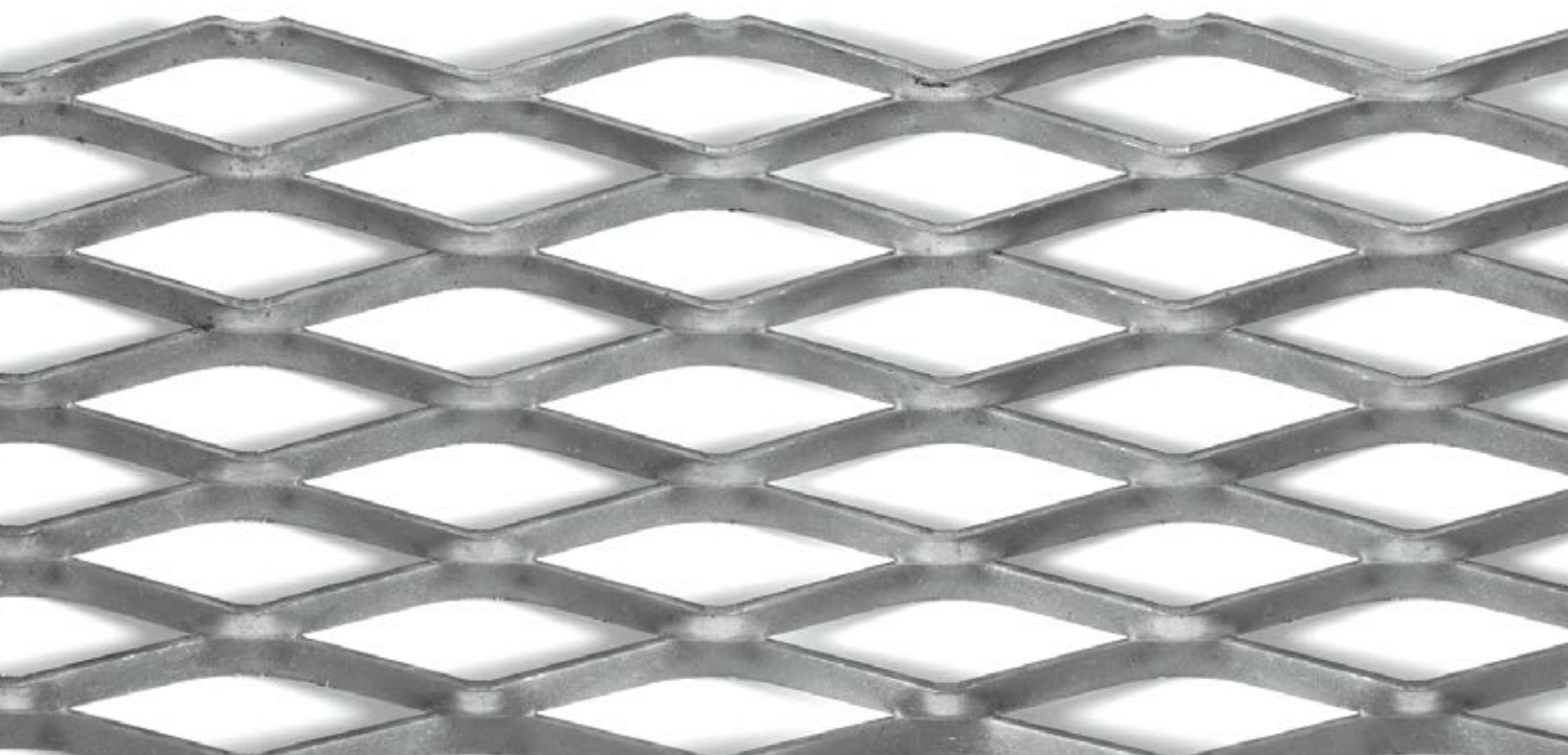


$t_1 \times t \times c \times g$
25 × 75 × 4.5 × 2

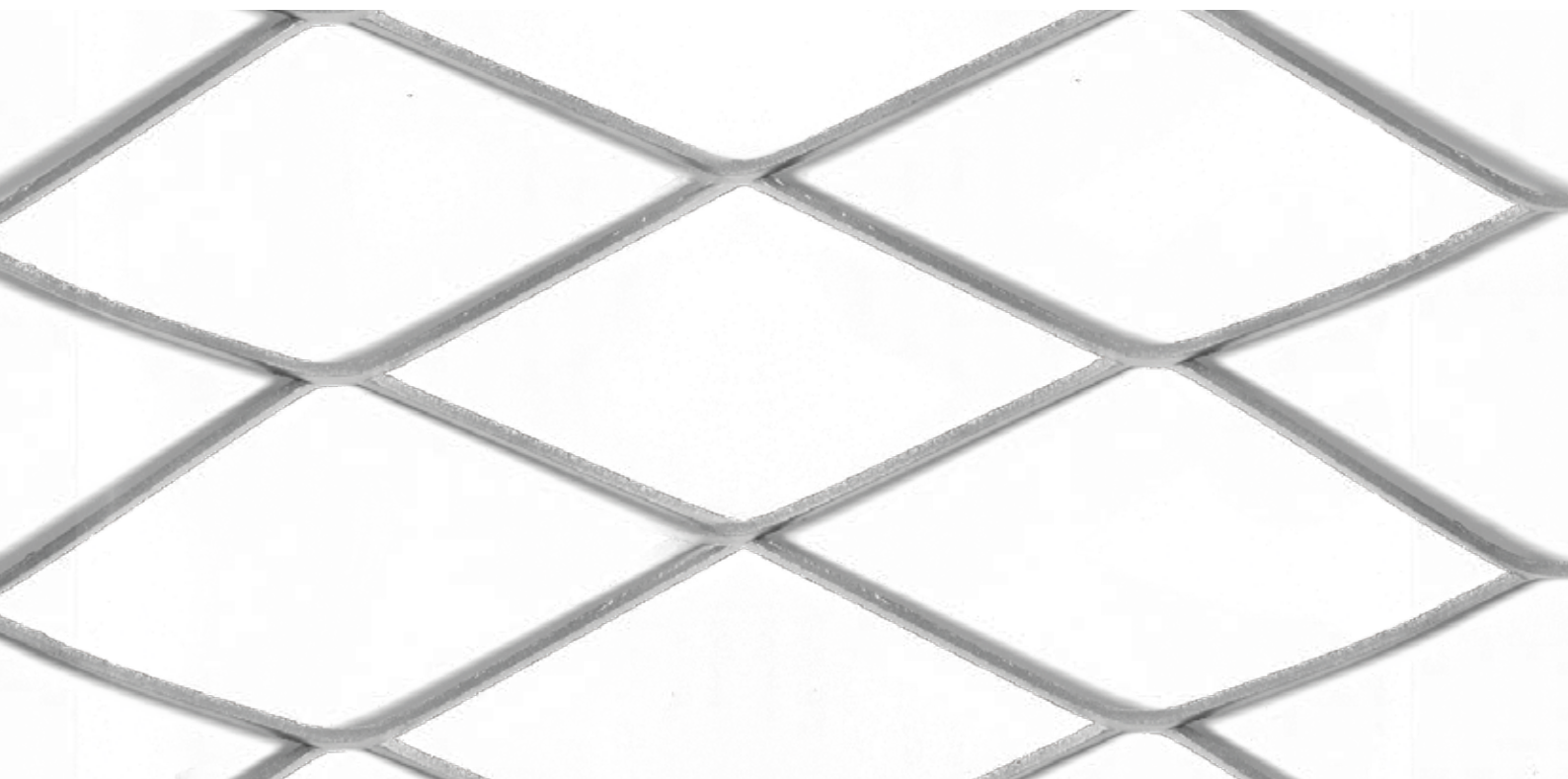
GALLERY OF MESHES IN 1:1 SCALE



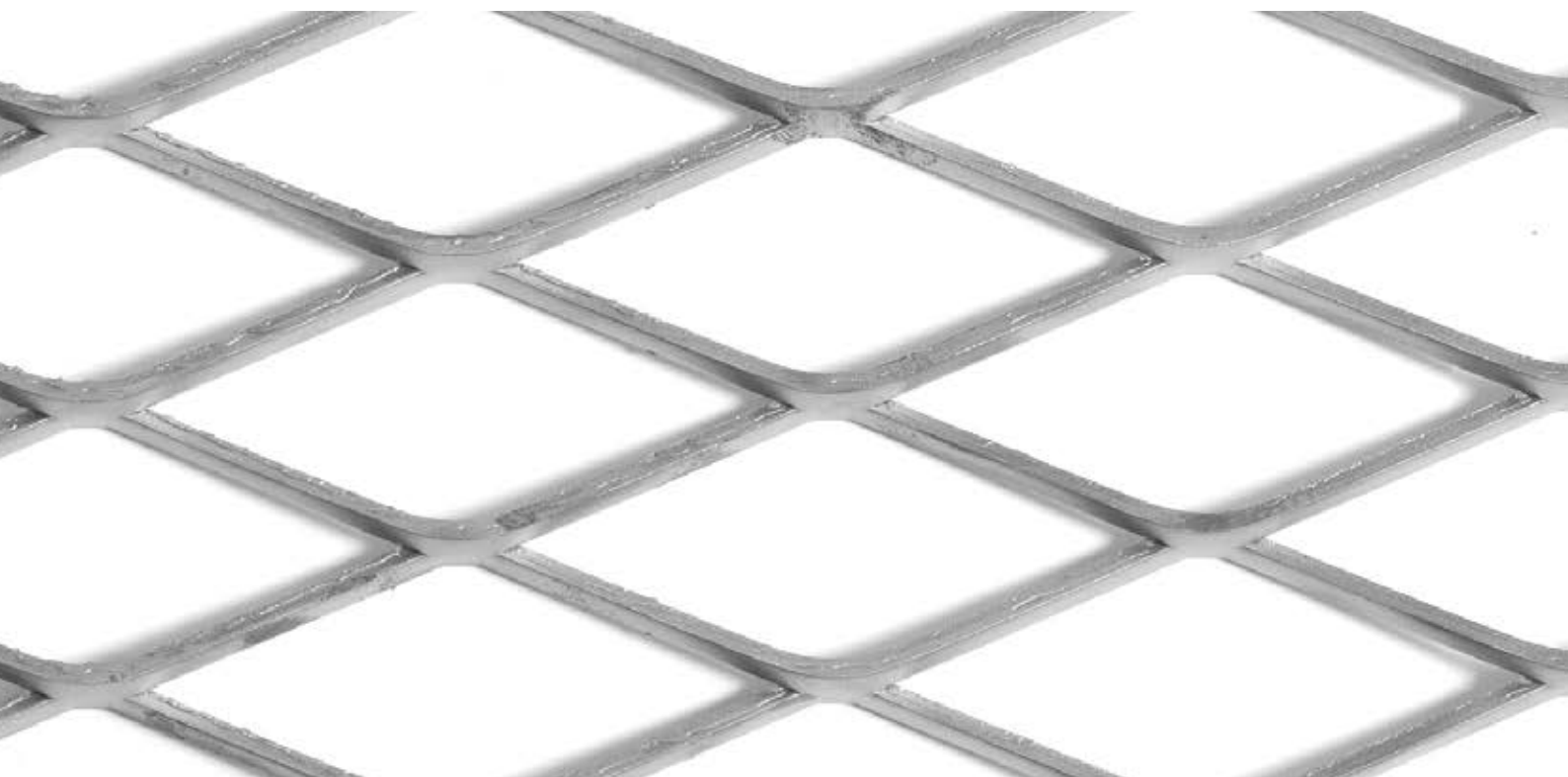
$t_1 \times t \times c \times g$
20 × 62 × 3 × 3



$t_1 \times t \times c \times g$
20 × 62 × 6 × 1.5

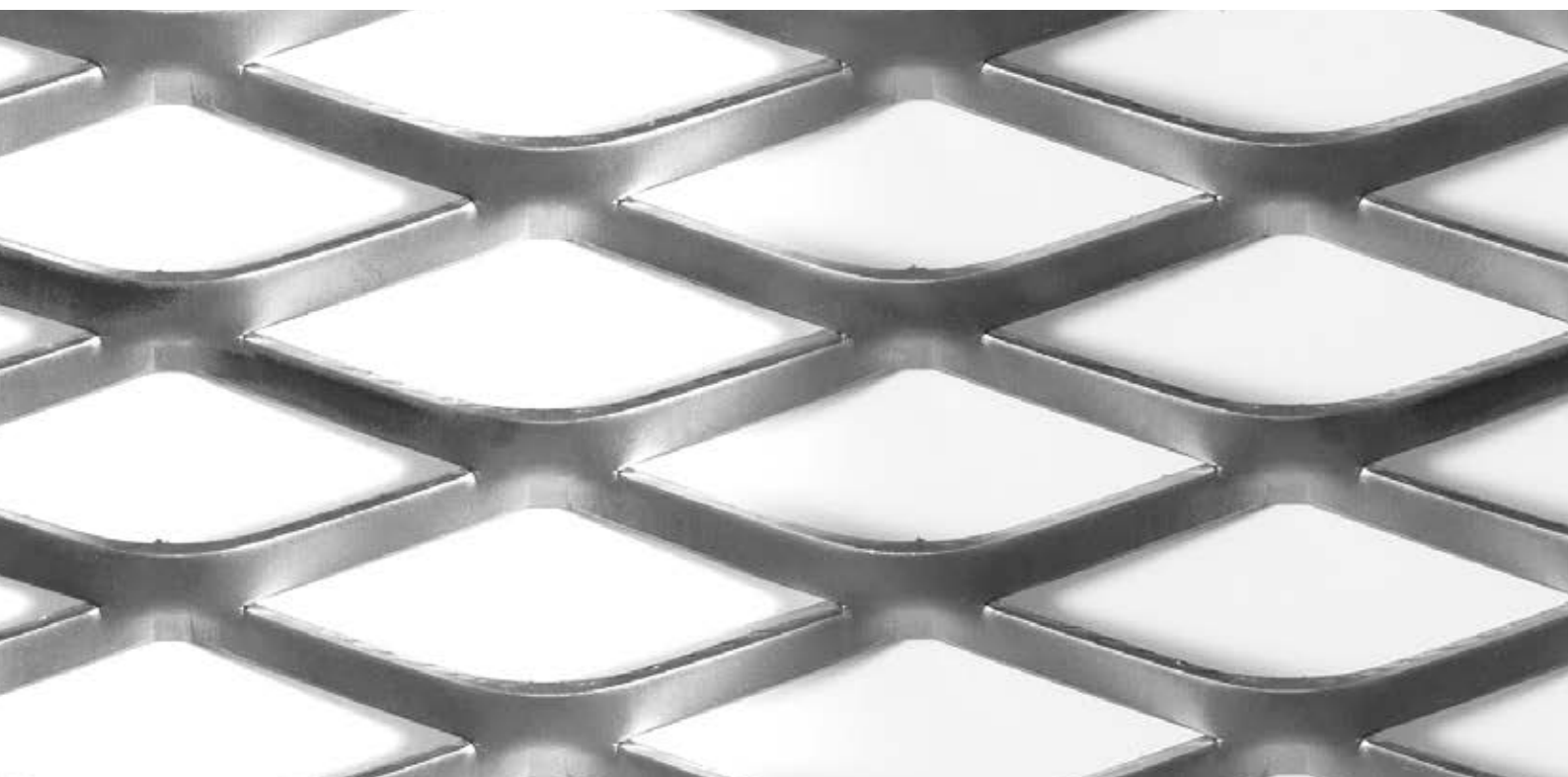


$t_1 \times t \times c \times g$
48 × 115 × 3 × 2

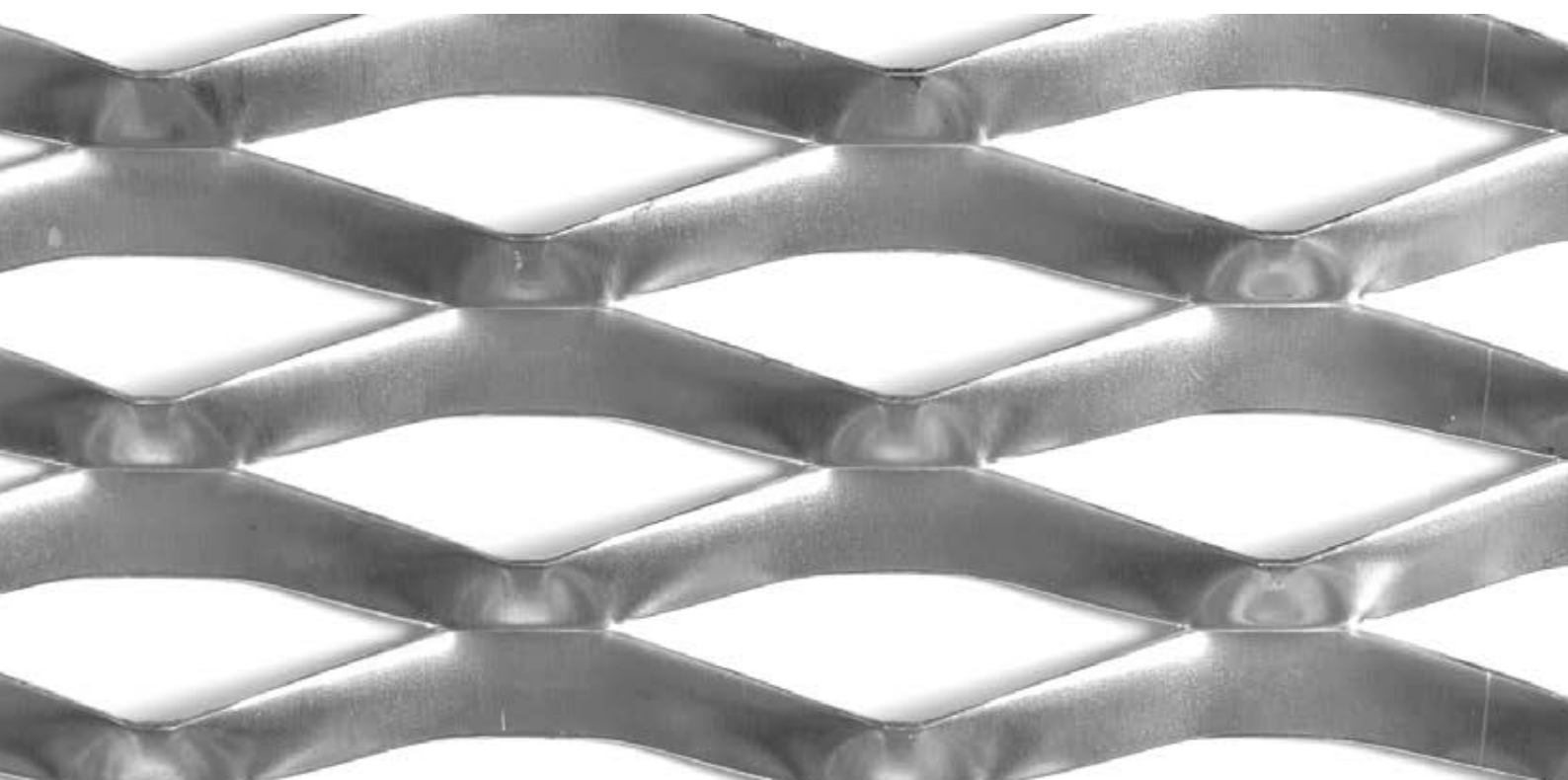


$t_1 \times t \times c \times g$
37.5 × 100 × 5 × 3

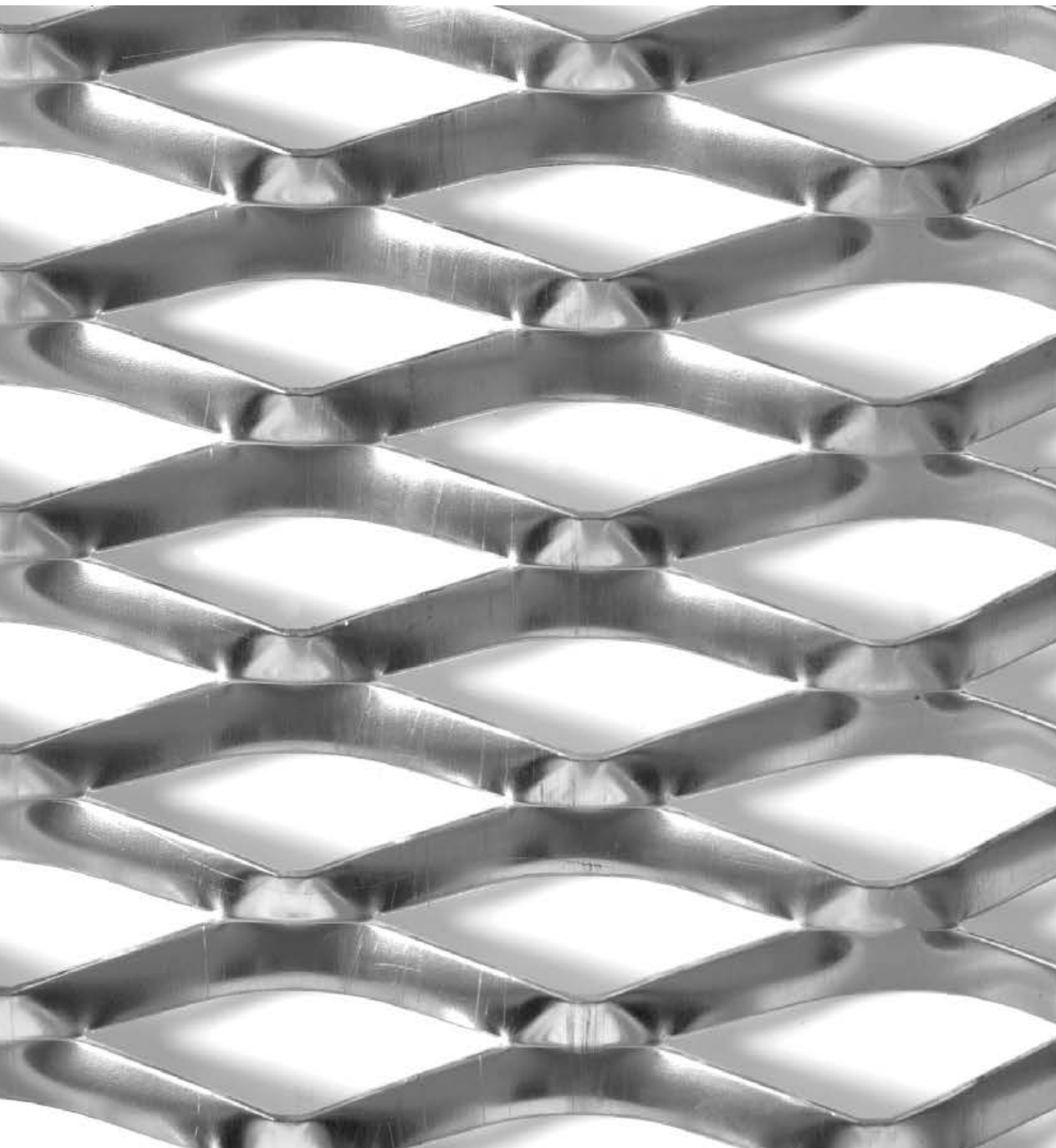
GALLERY OF MESHES IN 1:1 SCALE



$t_1 \times t \times c \times g$
37,5 x 100 x 9 x 3



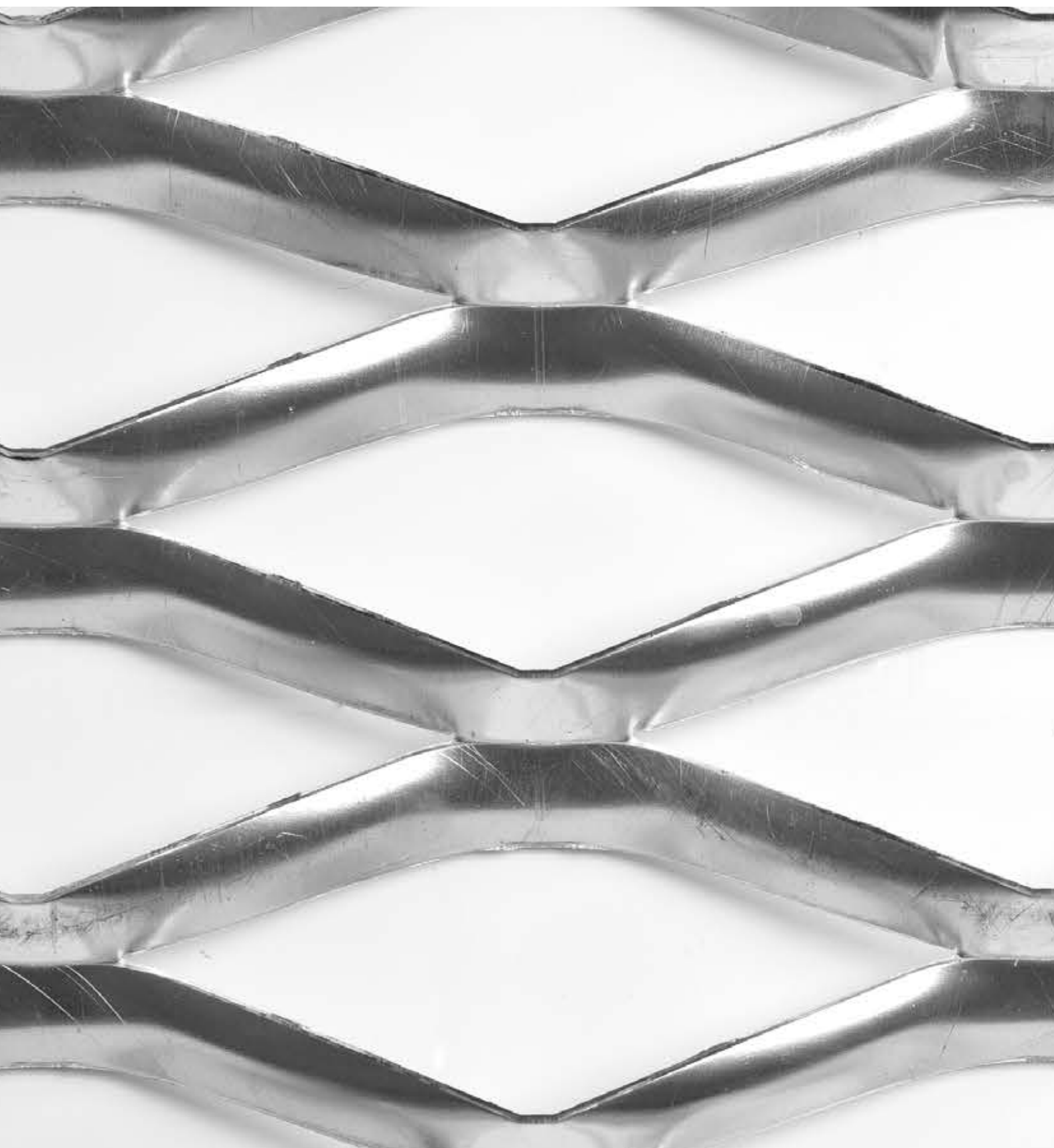
$t_1 \times t \times c \times g$
43 x 100 x 15 x 1.5



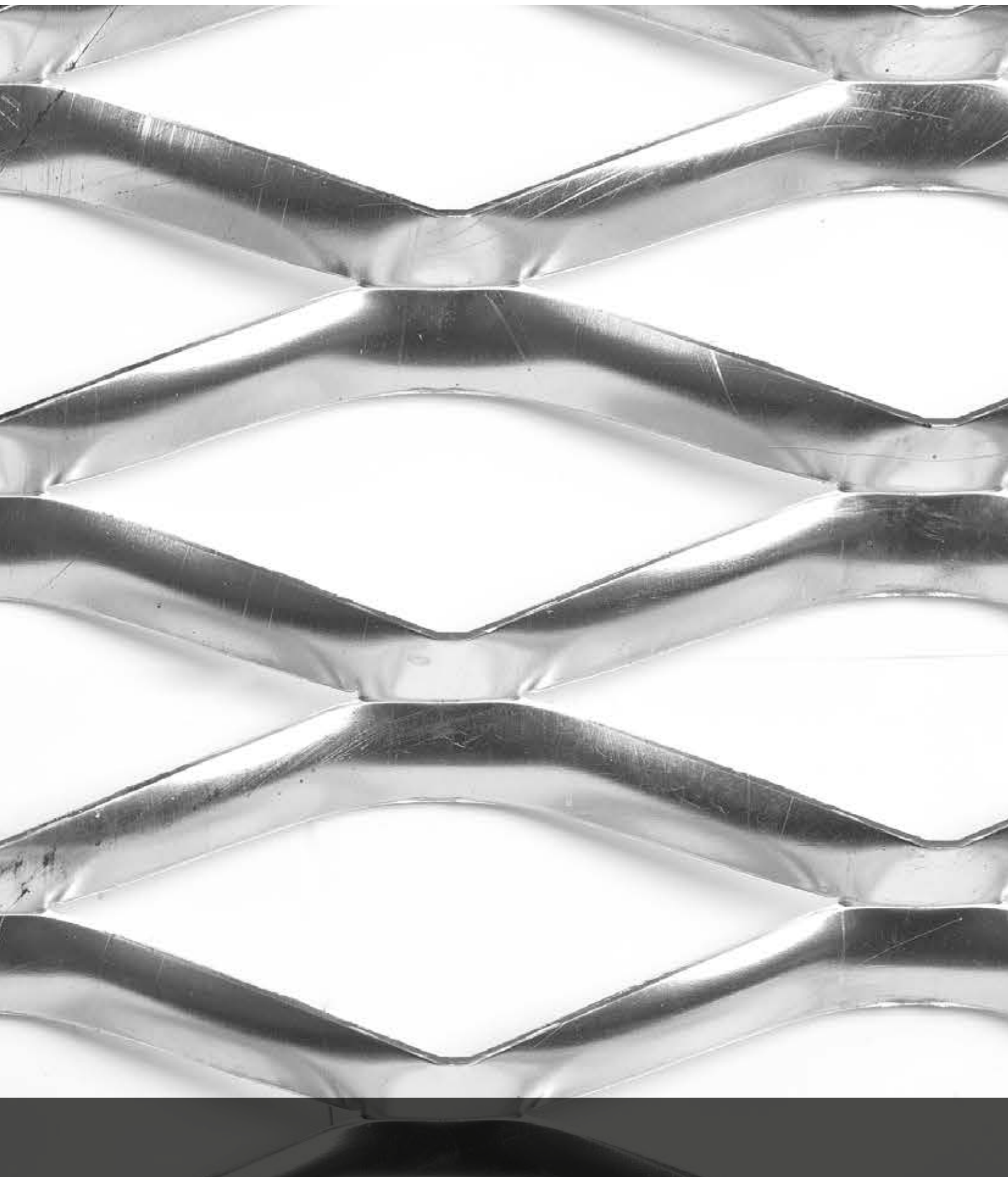
$t_1 \times t \times c \times g$

48 × 115 × 16 × 2

GALLERY OF MESHES IN 1:1 SCALE



$t_1 \times t \times c \times g$
80 × 200 × 24 × 2



EXPANDED METAL

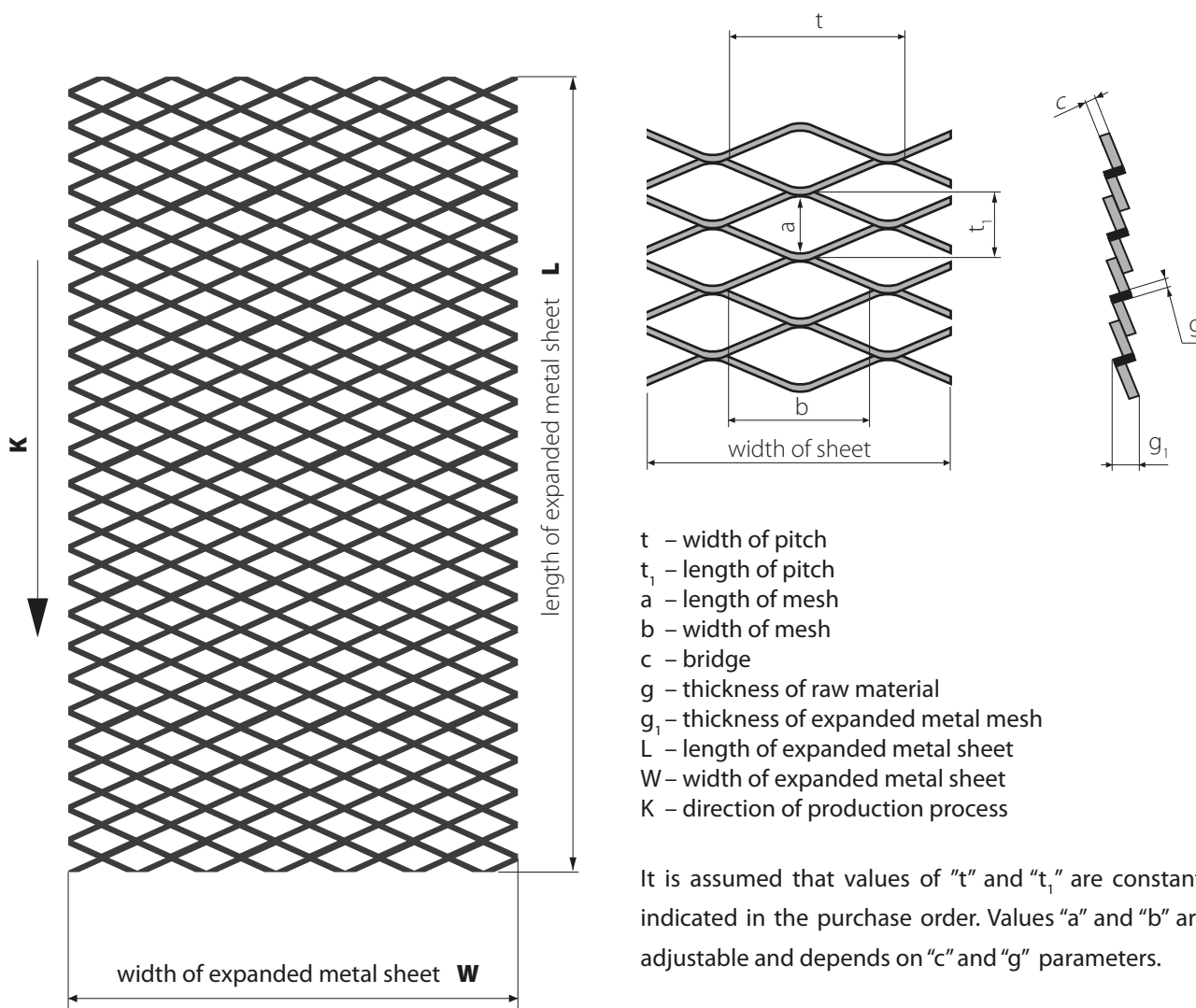
Expanded metal mesh according to the norm DIN 791 is the product created by cutting and expanding process. Technology of production allows using various raw material under condition of its high drawability: mild steel, pre-galvanized, stainless, aluminum, non ferrous grades.

Technical parameters: production tolerance acc. to the DIN 791

NOMENCLATURE

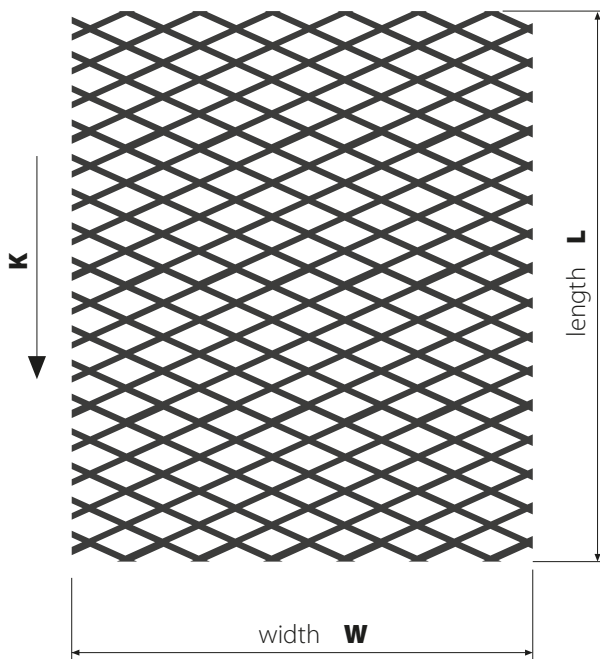
Expanded metal meshes are made with thickness range of 0,5 to 4 mm*, width of sheet up to 1500 mm, and "bridge" (c) parameter up to 24 mm (depends on meshes size and thickness of raw material). "C" parameter over 5 mm value is available after consultation with sales department.

* products with thickness 4 mm, max. width 1000 mm - after consultation as well.

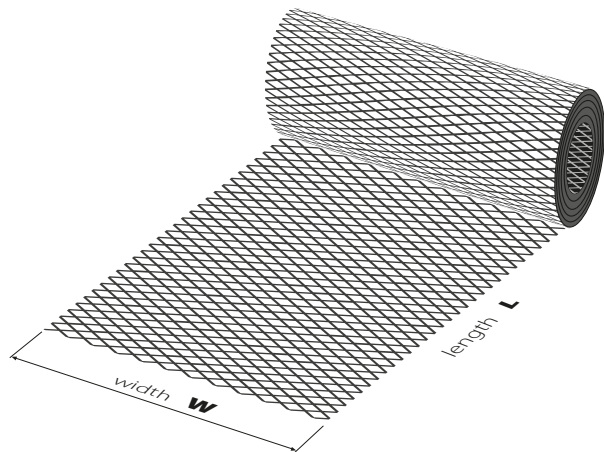


DIMENSIONS OF SHEETS OR ROLLS OF EXPANDED METAL MESH

Nets are produced in standard widths it is 1000, 1250, 1500 mm. Upon client's request it can be cut to various dimensions (an option).



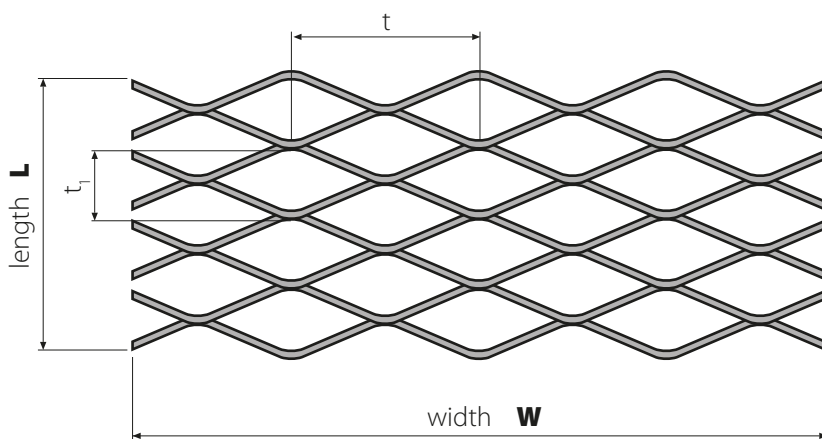
For nets made with thickness of material up to $g=2$ mm – it can be offered in rolled version as well.



For the dimensions of nets produced with standard metal sheets width's (1000, 1250 or 1500 mm) tolerance **W** amounts ± 8 mm. For the nets without final cutting length tolerance **L** amounts ca. ± 100 mm.

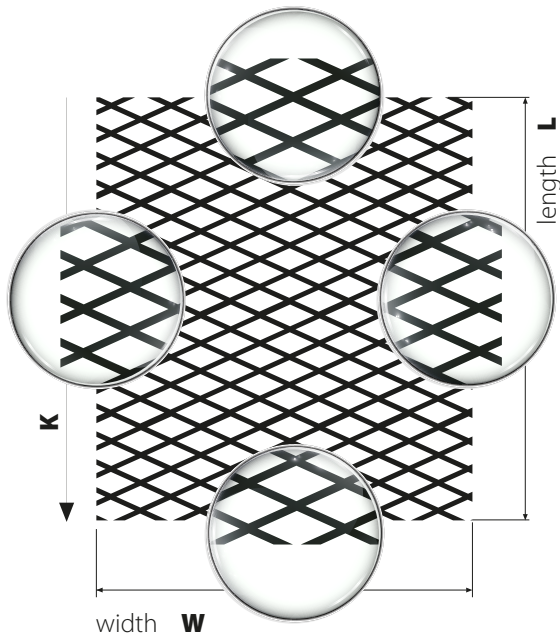
ARRANGEMENT OF MESHES RELATIVE TO THE SIZE OF EXPANDED METAL SHEET.

It is assumed that width of pitch **t** is taken as parallel value to the size **W** ($W_{max} = 1500$ mm). Although for parameter **L** up to 1500 mm reverse option is available (to be agreed before implementation).

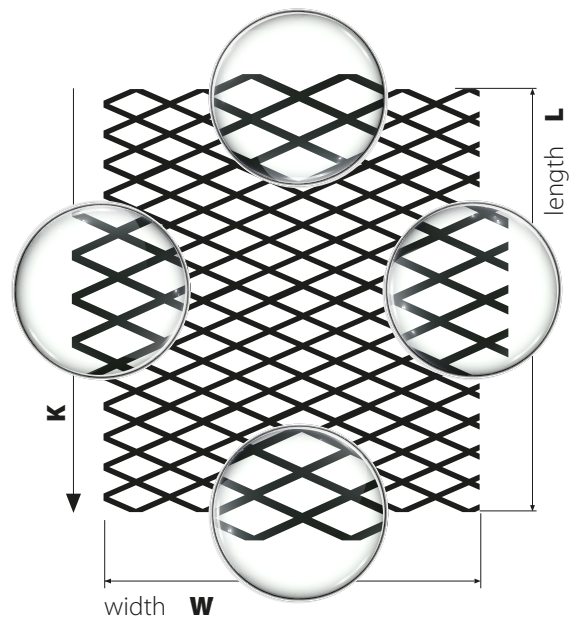


EDGES OF EXPANDED METAL MESH (POSSIBLE ENDS)

Depends on raw material there are various variants of expanded metal meshes ends. On special client's request (an option) there is a possibility to cut the sheets according to sketches shown below. However it must be taken under consideration that for the plates with the "full meshes ends" final size of plate depends on number and size of meshes and may not meet theoretical assumption.



Sheet cut to the width W and length L



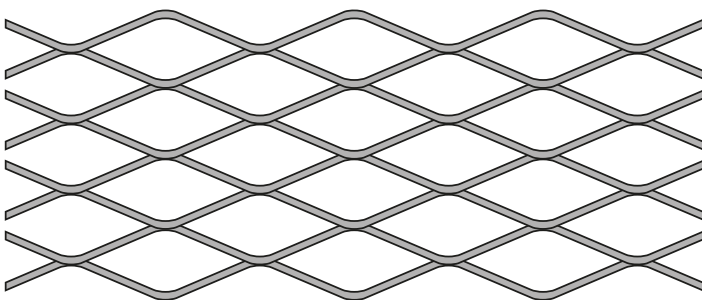
Sheet cut with the full meshes ends

*full meshes ends on the length L depends on the width W and pitch "t".

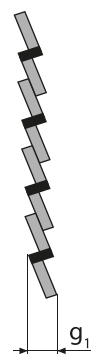
THIS OPTION DOES NOT GUARANTEE KEEPING OF ORDERED DIMENSION OF SHEET.

ARRANGEMENT OF MESHES RELATIVE TO THE SIZE OF EXPANDED METAL SHEET.

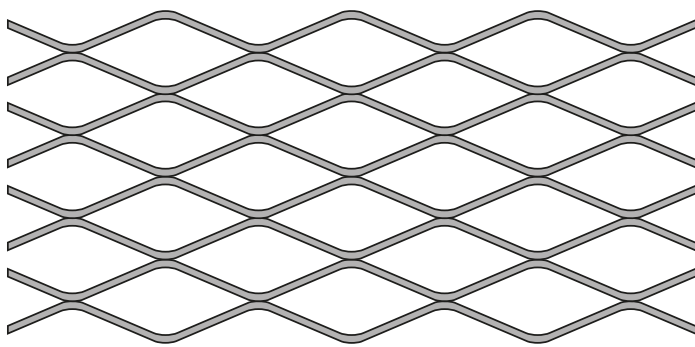
Upon client's request expanded metal sheets may be straighten (an option) or flattened (an option)



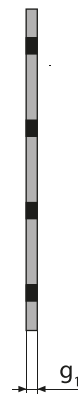
Expanded metal mesh without any additional processes.



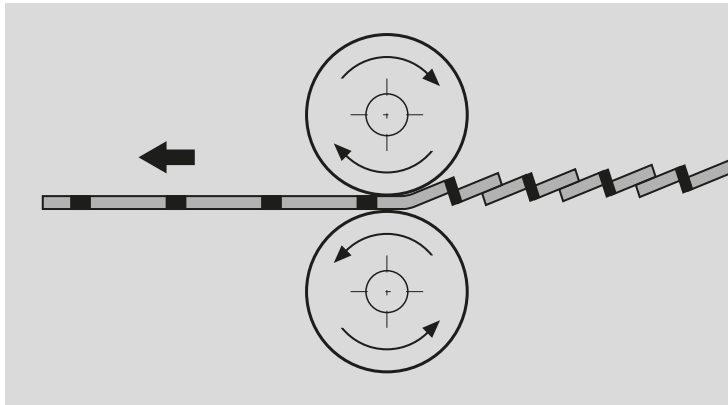
g_1 thickness for the meshes without flattened option, g_1 is a parameter resultant depends on bridge "c".



Expanded metal mesh (flattened version)



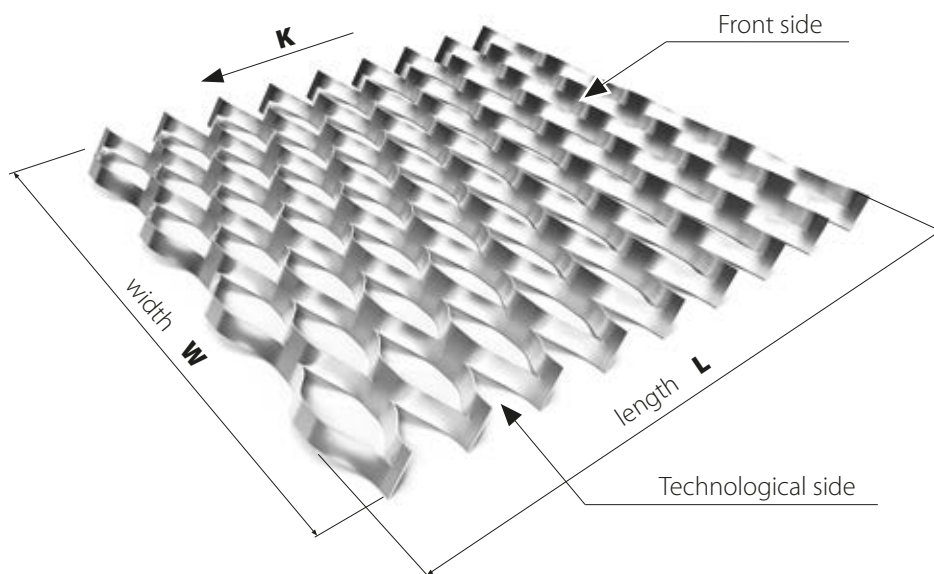
g_1 – thickness of expanded metal. It is assumed that g_1 after flattening process amounts ca g (thickness of raw material).



Nets can be flattened to the thickness of raw material (max thk. 3 mm , width W up to 1500 mm)

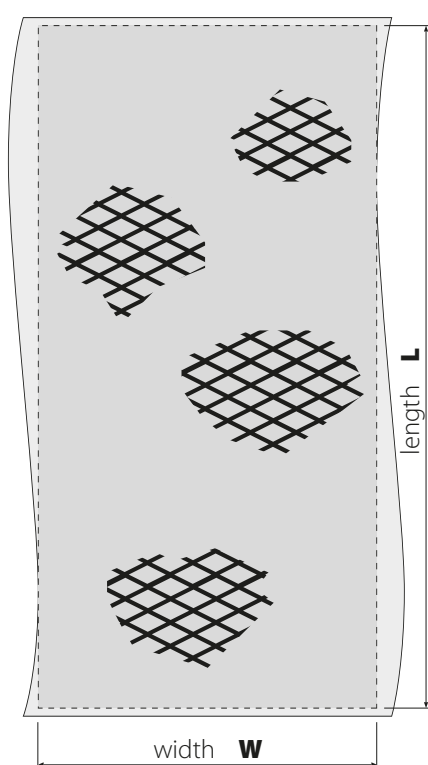
POSSIBLE EFFECTS OF CUTTING AND EXPANDING PROCESS

Expanded metal mesh has got two sides : the front one (decorative) and technological. On technological side some scratches may occur as an effect of production process.



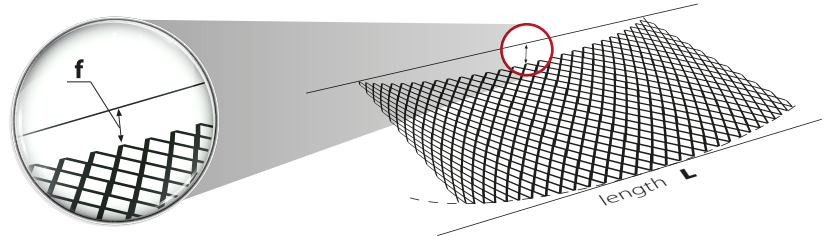
Attention : For decorative application (elevation/panels) it is suggested to mount nets on whole wall according (along) to the cutting process of sheet and strictly using as an external surface correct side of nets (front side). Correct method of mounting is especially important for nets with thick bridges (c).

DISTORTION AND FLATNESS OF EXPANDED METAL MESH



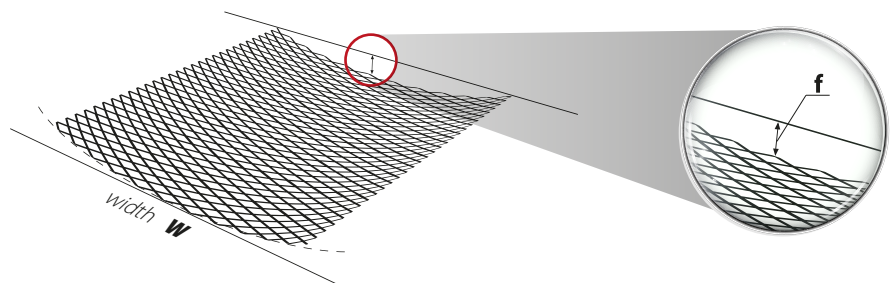
Distortion of rectangular shape is permitted for the nets without final cutting. Distortion of rectangular shape is permitted for the nets without final cutting. It can be up to 2% of the sheet edge length.

Expanded metal mesh is deemed as flat, if arranged on smooth surface does not show curve higher than 30mm, on width 1000mm (3% of the width). For stainless sheets "f" values amounts 50mm (5%). For heat-resistant sheets "f" value can not be determine. Other requirements must be predetermine before ordering.



Bulge f of the nets along to the length L

Bulge value F amounts ca 0,3-0,4 % of total length L



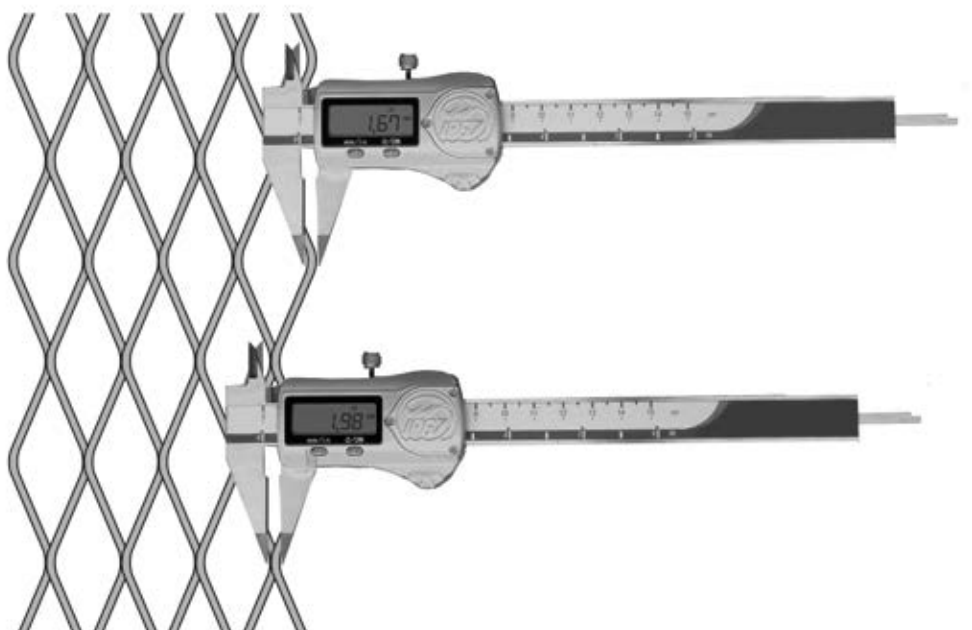
Bulge f of the nets along to the width W

Bulge value f amounts ca 0,3-0,4 % of total width W

FLATTENING OF INITIAL THICKNESS

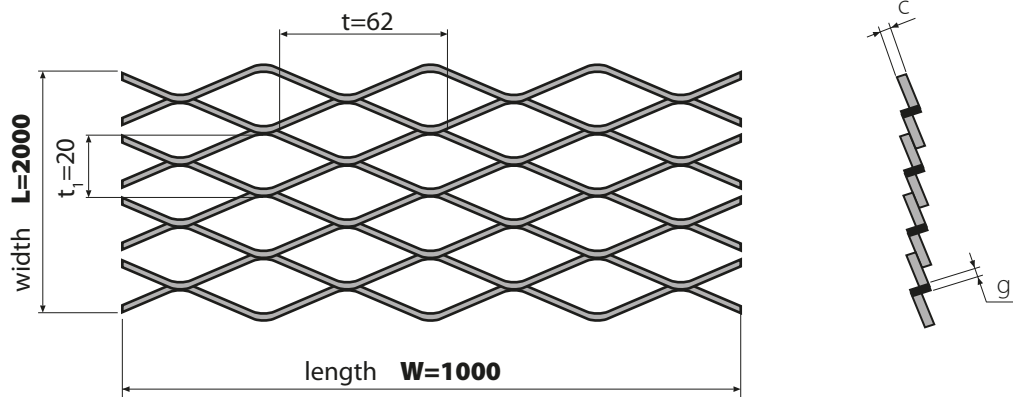
In some cases during cutting process on the areas without any material's support cross section of metal changes and becomes flattening what has an impact on final thickness of expanded metal. On the supported areas final thickness becomes thinner only for 0,1 mm. This occurrences are caused and imposed by technology of production.

Flattening of initial thickness
(example: g=2 mm)



WAY OF ORDERING

In general width of pitch t is taken as parallel value to the size W (W max = 1500 mm). Although for parametr L up to 1500 mm reverse option is available (to be agreed before implementation).



Example :

mild steel 1000x2000 20x62x3x2 - 50 pcs 62 || 1000

Where:

material	W	x	L	x	t ₁	x	t	x	c	x	g	quantity	mesh arrangement
mild steel	1000	x	2000	x	20	x	62	x	3	x	2	50 pcs	t w

All values in mm

t || W (width of pitch t parallel to the width of sheet W)

Additionally while ordering it is important to explain final application of product (ex. casings, panels, piece of steel construction).

Secondly it is also important to know if nets in further process (by customer) will be welded to any frames. This knowledge is helpful in adjusting correct technical parameters during production and finally meeting client's demand.

Attention: Regarding galvanized steel: We use pre-galvanized raw material so after cutting process there is no zinc layer on the edges of meshes.

BASIC MESH DIMENSIONS [mm]

mild steel

axb [mm]	t ₁ xt [mm]	thickness of material „s“ [mm] MILD STEEL	max. width [mm]	bridge „c“ value +/- 0.3 mm
1,2x2	2x4	0,5	500	0,5-0,6
2x3	3x6	0,5-1,5	350	0,5-1,2
4,5x7	6,4x11	0,5-2	1500	0,5-2
4,5x7,5	6x10	0,5-1	1500	0,5-1,5
4,5x9	6x12	0,5-2	1500	0,5-2
4,5x12	6x16	0,5-1,2	1500	0,5-1,2
4,5x24	7x29	0,5-1	1500	0,5-1,2
5,5x9,5	7x12,5	0,5-1,5	1500	0,5-1,5
6x11	7,5x14	0,5-2	1500	0,5-2
6x30	10x42	0,5-2	1500	0,5-2
7x13,5	10x18	0,5-2	1500	0,5-2,5
7x15	10x20	0,5-2	1500	0,5-2
7x24	10x30	0,5-2	1500	0,5-2,5
7x42	10x50	0,5-1,5	1500	0,5-2
8,5x13,5	12x18	0,5-2	1500	0,5-2,5
10x16	12x20	0,5-2	1500	0,5-2,5
10x42	12,5x50	0,5-2	1500	0,5-2,5
11x16,5	12,5x20	0,5-1,5	1500	0,5-2,5
12x42	15x50	0,5-2	1500	0,5-3
14x25	16,5x30	0,5-3	1500	0,5-3,5
16x45	20x50	0,5-3	1500	0,5-3
14x52	23x62,5	0,5-3	1500	0,5-3
17x52	20x62	0,5-3	1500	0,5-5
17x52	20x62,5	0,5-3	1500	0,5-9
18x42	22,5x50	0,5-3	1500	0,5-5
21x65	25x75	0,5-4	1500	0,5-5
33x88	37,5x100	0,5-4	1500	0,5-15

pre-galvanized

axb [mm]	t ₁ xt [mm]	thickness of material „s“ [mm] PRE-GALVANIZED	max. width [mm]	bridge „c“ value +/- 0.3 mm
1,2x2	2x4	0,5	500	0,5-0,6
2x3	3x6	0,5-1,5	350	0,5-1,2
4,5x7	6,4x11	0,5-1	1500	0,5-2
4,5x7,5	6x10	0,5-1	1500	0,5-1,5
4,5x9	6x12	0,5-1	1500	0,5-2
4,5x12	6x16	0,5-1	1500	0,5-1,2
4,5x24	7x29	0,5-1	1500	0,5-1,2
5,5x9,5	7x12,5	0,5-1,5	1500	0,5-1,5
6x11	7,5x14	0,5-1,5	1500	0,5-2
6x30	10x42	0,5-1,5	1500	0,5-2
7x13,5	10x18	0,5-1,5	1500	0,5-2,5
7x15	10x20	0,5-2	1500	0,5-2
7x24	10x30	0,5-2	1500	0,5-2,5
7x42	10x50	0,5-1,5	1500	0,5-2
8,5x13,5	12x18	0,5-1,5	1500	0,5-2,5
10x16	12x20	0,5-2	1500	0,5-2,5
10x42	12,5x50	0,5-2	1500	0,5-2,5
11x16,5	12,5x20	0,5-1,5	1500	0,5-2,5
12x42	15x50	0,5-1,5	1500	0,5-3
14x25	16,5x30	0,5-2	1500	0,5-3,5
16x45	20x50	0,5-2	1500	0,5-3
14x52	23x62,5	0,5-2	1500	0,5-3
17x52	20x62	0,5-2	1500	0,5-5
17x52	20x62,5	0,5-2	1500	0,5-5
18x42	22,5x50	0,5-2	1500	0,5-5
21x65	25x75	0,5-2	1500	0,5-5
33x88	37,5x100	0,5-2	1500	0,5-5

aluminum

axb [mm]	t ₁ xt [mm]	thickness of material „s“ [mm] ALUMINUM	max. width [mm]	bridge „c“ value +/- 0.3 mm
1,2x2	2x4	0,5-0,8	500	0,5-0,6
2x3	3x6	0,5-1	350	0,5-1,2
4,5x7	6,4x11	0,5-2,5	1500	0,5-2
4,5x7,5	6x10	0,5-1	1500	0,5-1,5
4,5x9	6x12	0,5-2	1500	0,5-2
4,5x12	6x16	0,5-1,5	1500	0,5-1,2
4,5x24	7x29	0,5-1,5	1500	0,5-1,2
5,5x9,5	7x12,5	0,5-4	1500	0,5-1,5
6x11	7,5x14	0,5-2	1500	0,5-2
6x30	10x42	0,5-2,5	1500	0,5-2
7x13,5	10x18	0,5-2	1500	0,5-2,5
7x15	10x20	0,5-2,5	1500	0,5-2
7x24	10x30	0,5-2,5	1500	0,5-2,5
7x42	10x50	0,5-2,5	1500	0,5-2
8,5x13,5	12x18	0,5-2,5	1500	0,5-2,5
10x16	12x20	0,5-2	1500	0,5-2,5
10x42	12,5x50	0,5-3	1500	0,5-2,5
11x16,5	12,5x20	0,5-2	1500	0,5-2,5
12x42	15x50	0,5-3	1500	0,5-3
14x25	16,5x30	0,5-3	1500	0,5-3,5
16x45	20x50	0,5-3	1500	0,5-3
14x52	23x62,5	0,5-4	1500	0,5-3
17x52	20x62	0,5-4	1500	0,5-5
17x52	20x62,5	0,5-4	1500	0,5-5
18x42	22,5x50	0,5-4	1500	0,5-5
21x65	25x75	0,5-4	1500	0,5-5
33x88	37,5x100	0,5-4	1500	0,5-15
	48x115	0,5-2	1500	0,5-16
	80x200	0,5-3	1500	0,5-25

0H18N9

axb [mm]	t ₁ xt [mm]	thickness of material „s“ [mm] 0H18N9	max. width [mm]	bridge „c“ value +/- 0.3 mm
2x3	3x6	0,5-0,7	350	0,5-1,2
4,5x7	6,4x11	0,5-1	1500	0,5-2
4,5x7,5	6x10	0,5-1	1500	0,5-1,5
4,5x9	6x12	0,5-1	1500	0,5-2
4,5x12	6x16	0,5-1	1500	0,5-1,2
4,5x24	7x29	0,5-1	1500	0,5-1,2
5,5x9,5	7x12,5	0,5-1,5	1500	0,5-1,5
6x11	7,5x14	0,5-1,5	1500	0,5-2
6x30	10x42	0,5-1	1500	0,5-2
7x13,5	10x18	0,5-2	1500	0,5-2,5
7x15	10x20	0,5-1,5	1500	0,5-2
7x24	10x30	0,5-2	1500	0,5-2,5
7x42	10x50	0,5-1,5	1500	0,5-2
8,5x13,5	12x18	0,5-1,5	1500	0,5-2,5
10x16	12x20	0,5-1,5	1500	0,5-2,5
10x42	12,5x50	0,5-2	1500	0,5-2,5
11x16,5	12,5x20	0,5-1	1500	0,5-2,5
12x42	15x50	0,5-1,5	1500	0,5-3
14x25	16,5x30	0,5-2	1500	0,5-3,5
14x37	21x50	0,5-2	1500	0,5-3
14x52	23x62,5	0,5-3	1500	0,5-3
17x52	20x62	0,5-3	1500	0,5-5
17x52	20x62,5	0,5-3	1500	0,5-5
18x42	22,5x50	0,5-2	1500	0,5-5
21x65	25x75	0,5-3	1500	0,5-5
33x88	37,5x100	0,5-3	1500	0,5-5