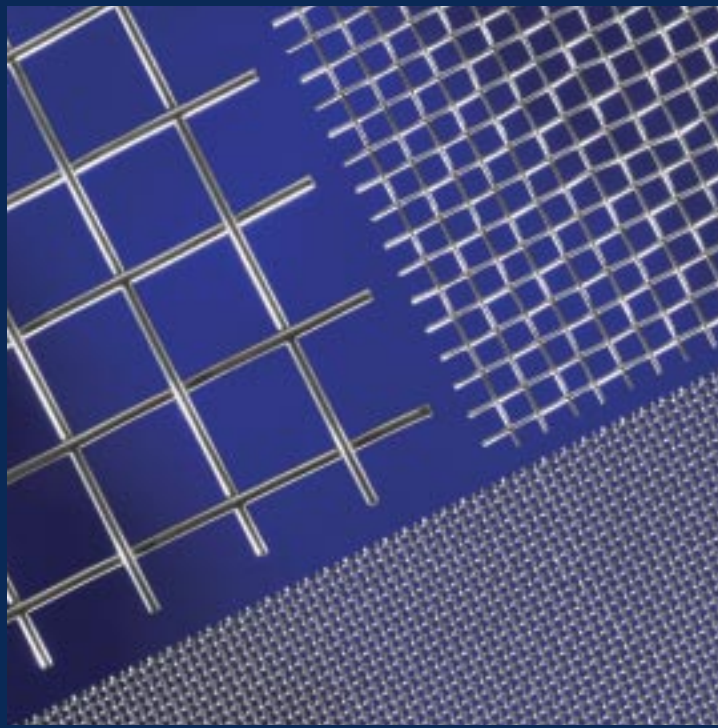


HAYER & BOECKER



Information



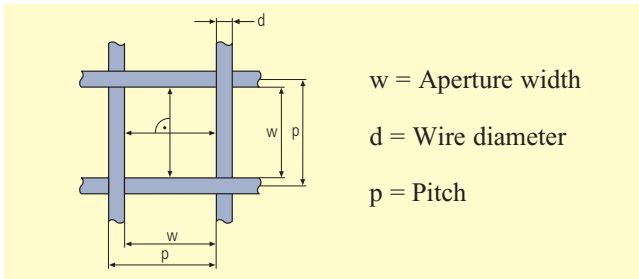
**Specification Tables for
Industrial Woven Wire Cloth**

0.020 mm to 50 mm

Wire Cloth Terminology according to ISO 9044

Aperture width w is the distance between two adjacent warp or weft wires, measured in the projected plane at the mid-positions.

Wire diameter d is the diameter of the wire in the woven cloth. (The wire diameter may be altered slightly during the weaving process.)



w = Aperture width
 d = Wire diameter
 p = Pitch

Pitch p is the distance between the middle point of two adjacent wires or the sum of the aperture width w and the wire diameter d .

Warp: All wires running lengthwise of the cloth as woven.

Weft: All wires running across the cloth as woven.

Open screening area, A_o : The percentage of the area of all the apertures in the total screening surface or the ratio of square of the nominal aperture width w and the square of the nominal pitch p ($= w + d$), rounded to a full percentage value:

$$A_o = 100 \cdot (w : p)^2$$

Type of weave is the way in which the warp and weft wires cross each other.

The number of apertures per unit length n is the number of apertures which are counted in a row one behind the other for a given unit length. The unit length may be 1 cm, 1 dm, Inch or any other unit of length. (The number of apertures with a length of 24.5 mm is designated as "Mesh".)

$$\text{Mesh} = \text{number of apertures per English inch} = 25.4 : p$$

$$n/\text{cm} = \text{number of apertures per cm} = 10 : p$$

$$n/\text{cm}^2 = \text{number of apertures per cm}^2 = (10 : p)^2$$

Weight G of the steel wire cloth screen section in kg per m^2

$$G = (12.7 \cdot d^2) : p$$

$$G = \frac{\text{Mesh} \cdot d^2}{2}$$

The actual value can be up to 3 % lower.

The wire diameter can be calculated using the following equation:

$$d = \sqrt{\frac{G \cdot p}{12.7}} \quad d = \sqrt{\frac{2 \cdot G}{\text{Mesh}}}$$

Material: It is up to the user to specify the choice of material with respect to:

- the final application of the wire cloth (e.g. resistance to environmental corrosion, suitability for food products etc.)
- the further processing (e.g. suitability for shaping, welding and surface treatment).

Materials should be designated in accordance with appropriate standards, or if none exists, according to commercial specifications.

Short Terms:

w = Aperture width in mm

d = Wire diameter in mm

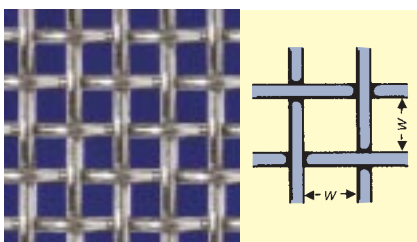
p = Pitch in mm ($w+d$)

A_o = Open Screening area

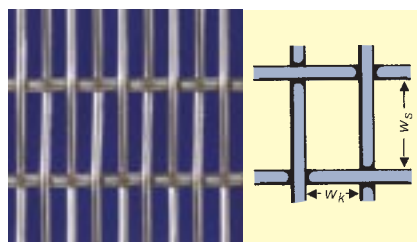
n = Number of apertures per unit length

G = Weight in kg/m^2

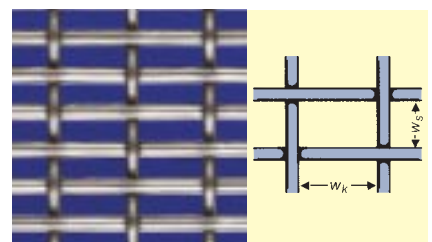
Types of Apertures



Square Aperture



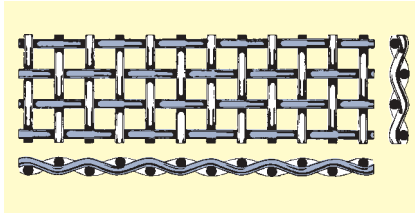
Rectangular „Oblong“



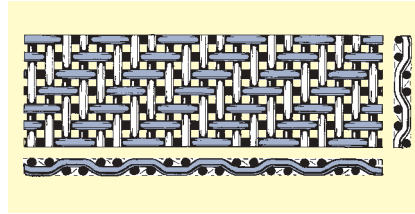
Rectangular „Broad“

Rectangular apertures can be fabricated as **oblong** and **broad** meshes in a ratio of apx. 1:3. Warp wires correspond to the square aperture.

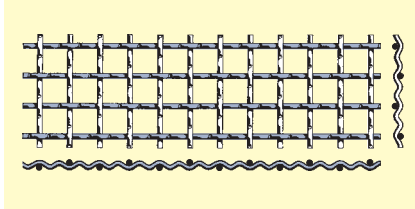
Types of Weave and Shapes



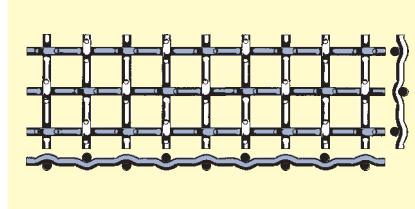
Woven Wire Cloth and Screens
Plain Weave, Type A



Woven Wire Cloth, Twilled Weave



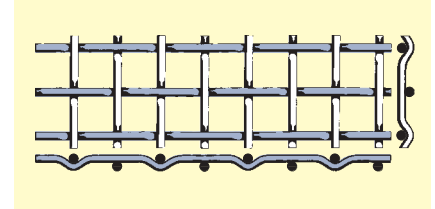
Double Intermediate Crimp Screen, Type C



Lock Crimp Screen, Type D

Woven wire cloth is woven from **plain** wires.

Wire screens are fabricated from **pre-crimped** wires.



Flat Top Screen, Type E

Delivery

Roll lengths: A standard roll is 25 or 30.5 m long, and half rolls are 12.5 m or 15 m long. The length of rolls may be + or - 10 %. The delivered length is the one invoiced.

Partial lengths: A wire cloth roll may consist of a maximum of three roll pieces. The minimum length of a roll piece is 2.5 m.

Cloth width: For rolls and roll pieces, the width of the cloth shall not be less than the nominal width, but may be up to 2 % in excess.

Strips and cut-to-size-pieces: For strips, the width shall be specified. With orders of quantities of less than a standard roll, the length of individual strips may be reduced accordingly. For cut-to-size pieces, the sides, lengths, angles and radii shall be specified.

Required Details for Wire Cloth Orders

- Aperture width, w/mm
- Wire diameter, d/mm
- Material
- Type of Weave (if necessary)

Designation of a woven wire cloth with aperture width $w = 2$ mm and wire diameter $d = 0.56$ mm made from stainless steel 1.4301:

Woven wire cloth 2 x 0.56, 1.4301

Post weaving processing - if desired

- Stretching: the wire cloth is stretched under tension after weaving to straighten the wires and make it lie flat.
- Degreasing/Cleaning: wire cloth rolls, strips or pieces can be cleaned in an ultrasonic bath.
- Tycleen: bright annealing under inert gas or in vacuum.
- Calendering: the wire cloth is passed through two steel rollers to reduce it to a predetermined thickness without altering the wire diameter and mesh openings.

Shaped parts or filters

Provide samples, sketches or drawings, preferably with permissible tolerances.

Samples

Should you have a sample of the wire cloth employed so far, kindly send it in to us. We shall then check it in our laboratory.

Repeat orders

So as to furnish you with the correct material either let us have a roll-lable or provide the exact technical data of the previous order.

w = 0.020 – 0.180 mm

1	2	3	4	5	6
Aperture width w	Wire diameter d	Mesh ~	Wire diameter d	Open screening area A ₀	Weight G
mm	mm		inch	%	kg /m ²
0,020	0,020	635	.0008	25	0,13
0,025	0,025	500	.0010	25	0,16
0,032	0,028	425	.0011	28	0,17
0,036	0,028	400	.0011	32	0,16
0,036	0,030	385	.0012	30	0,17
0,038	0,025	400	.0010	36	0,13
0,038	0,030	370	.0012	31	0,17
0,040	0,032	350	.0013	31	0,18
0,042	0,036	325	.0014	29	0,21
0,045	0,030	350	.0012	36	0,15
0,045	0,032	325	.0013	34	0,17
0,045	0,036	315	.0014	31	0,20
0,050	0,028	325	.0011	41	0,13
0,050	0,030	325	.0012	39	0,14
0,050	0,036	300	.0014	34	0,19
0,053	0,036	270	.0014	35	0,18
0,053	0,036	280	.0015	35	0,18
0,053	0,040	270	.0016	32	0,22
0,056	0,030	300	.0012	42	0,13
0,056	0,032	290	.0013	40	0,15
0,056	0,036	270	.0014	37	0,18
0,056	0,040	260	.0016	34	0,21
0,060	0,030	280	.0012	44	0,13
0,063	0,036	250	.0014	40	0,17
0,063	0,040	250	.0016	37	0,20
0,063	0,045	230	.0018	34	0,24
0,071	0,050	210	.0020	34	0,26
0,071	0,056	200	.0023	31	0,31
0,075	0,036	230	.0014	46	0,15
0,075	0,040	220	.0016	43	0,18
0,075	0,050	200	.0020	36	0,25
0,075	0,053	200	.0021	34	0,28
0,075	0,056	195	.0023	33	0,30
0,080	0,050	200	.0020	38	0,24
0,080	0,056	190	.0023	35	0,29
0,085	0,040	200	.0016	46	0,16
0,085	0,050	190	.0020	40	0,24
0,085	0,056	180	.0023	36	0,28

1	2	3	4	5	6
Aperture width w	Wire diameter d	Mesh ~	Wire diameter d	Open screening area A ₀	Weight G
mm	mm		inch	%	kg /m ²
0,090	0,040	200	.0016	48	0,16
0,090	0,045	190	.0018	44	0,19
0,090	0,050	180	.0020	41	0,23
0,090	0,056	170	.0022	38	0,27
0,090	0,063	170	.0024	35	0,33
0,095	0,045	180	.0018	46	0,18
0,100	0,050	170	.0020	44	0,21
0,100	0,063	155	.0025	38	0,31
0,100	0,067	150	.0026	36	0,34
0,100	0,071	150	.0028	34	0,37
0,106	0,050	165	.0019	46	0,20
0,106	0,056	155	.0022	43	0,25
0,106	0,076	140	.0030	34	0,40
0,106	0,080	135	.0032	32	0,44
0,112	0,056	150	.0022	44	0,24
0,112	0,071	140	.0028	37	0,35
0,112	0,080	130	.0032	34	0,42
0,118	0,056	145	.0022	46	0,23
0,118	0,095	120	.0037	31	0,54
0,125	0,063	135	.0025	44	0,27
0,125	0,080	124	.0032	37	0,40
0,125	0,090	120	.0035	34	0,48
0,132	0,056	135	.0023	49	0,21
0,132	0,090	115	.0035	35	0,46
0,140	0,067	120	.0026	46	0,28
0,140	0,112	100	.0045	31	0,63
0,150	0,063	120	.0025	50	0,24
0,150	0,080	110	.0032	43	0,35
0,150	0,100	100	.0040	36	0,51
0,150	0,112	100	.0045	33	0,61
0,160	0,071	110	.0028	48	0,28
0,160	0,075	105	.0030	46	0,30
0,160	0,100	100	.0040	38	0,49
0,160	0,112	94	.0045	35	0,59
0,160	0,125	90	.0050	32	0,70
0,170	0,100	94	.0040	40	0,47
0,180	0,090	94	.0035	44	0,38
0,180	0,100	90	.0040	41	0,45
0,180	0,112	87	.0045	38	0,55
0,180	0,125	85	.0050	35	0,65
0,180	0,140	80	.0055	32	0,78

w = 0.190 – 0.450 mm

1	2	3	4	5	6
Aperture width w	Wire diameter d	Mesh ~	Wire diameter inch	Open screening area A ₀ %	Weight G kg /m ²
0,190	0,090	90	.0035	46	0,37
0,190	0,100	88	.0040	43	0,44
0,200	0,090	88	.0035	48	0,35
0,200	0,100	84	.0040	44	0,42
0,200	0,125	80	.0050	38	0,61
0,200	0,140	75	.0055	35	0,73
0,200	0,160	70	.0065	31	0,90
0,212	0,090	84	.0035	49	0,34
0,212	0,100	80	.0040	46	0,41
0,212	0,140	70	.0060	36	0,71
0,212	0,160	68	.0065	32	0,87
0,224	0,095	80	.0037	49	0,36
0,224	0,100	78	.0040	48	0,39
0,224	0,200	60	.0080	28	1,20
0,230	0,095	78	.0037	50	0,35
0,236	0,095	77	.0037	51	0,35
0,236	0,100	76	.0040	49	0,38
0,236	0,190	60	.0075	31	1,08
0,240	0,095	76	.0037	51	0,34
0,250	0,095	74	.0037	53	0,33
0,250	0,100	72	.0040	51	0,36
0,250	0,125	70	.0050	44	0,53
0,250	0,160	62	.0063	37	0,79
0,250	0,180	60	.0070	34	0,96
0,250	0,200	56	.0080	31	1,13
0,260	0,095	72	.0037	54	0,32
0,265	0,100	70	.0040	53	0,35
0,265	0,112	66	.0045	49	0,42
0,265	0,160	60	.0065	39	0,76
0,270	0,095	70	.0037	55	0,31
0,280	0,112	64	.0045	51	0,41
0,280	0,180	55	.0071	37	0,89
0,280	0,200	53	.0080	34	1,06
0,280	0,224	50	.0090	31	1,26
0,285	0,100	66	.0040	55	0,33
0,300	0,100	62	.0040	56	0,32
0,300	0,112	62	.0045	53	0,39
0,300	0,160	55	.0065	43	0,71
0,300	0,215	48	.0085	34	1,14
0,300	0,224	48	.0090	33	1,22
0,300	0,250	48	.0100	30	1,44
0,300	0,280	45	.0105	27	1,72

1	2	3	4	5	6
Aperture width w	Wire diameter d	Mesh ~	Wire diameter inch	Open screening area A ₀ %	Weight G kg /m ²
0,315	0,100	60	.0040	58	0,31
0,315	0,112	60	.0045	54	0,37
0,315	0,125	58	.0050	51	0,45
0,315	0,160	54	.0063	44	0,68
0,315	0,200	50	.0075	37	0,99
0,315	0,200	50	.0080	37	0,99
0,325	0,112	58	.0045	55	0,36
0,335	0,100	58	.0040	59	0,29
0,335	0,112	56	.0045	56	0,36
0,335	0,140	54	.0055	50	0,52
0,355	0,100	56	.0040	61	0,28
0,355	0,125	53	.0050	55	0,41
0,355	0,140	52	.0055	51	0,50
0,355	0,180	48	.0071	44	0,77
0,355	0,215	45	.0085	39	1,03
0,355	0,250	42	.010	34	1,31
0,355	0,250	45	.010	34	1,31
0,355	0,315	38	.013	28	1,88
0,375	0,100	54	.0040	62	0,27
0,375	0,140	50	.0055	53	0,48
0,375	0,250	40	.010	36	1,27
0,400	0,112	50	.0045	61	0,31
0,400	0,125	48	.0050	58	0,38
0,400	0,140	48	.0055	55	0,46
0,400	0,180	44	.0071	48	0,71
0,400	0,224	40	.0090	41	1,02
0,400	0,250	40	.0100	38	1,22
0,412	0,140	46	.0055	56	0,45
0,425	0,112	48	.0045	63	0,30
0,425	0,125	46	.0050	60	0,36
0,425	0,200	40	.0080	46	0,81
0,425	0,215	40	.0085	44	0,92
0,425	0,280	36	.011	36	1,41
0,425	0,300	35	.012	34	1,58
0,425	0,355	32	.014	30	2,05
0,450	0,112	46	.0045	64	0,28
0,450	0,140	44	.0055	58	0,42
0,450	0,180	40	.0070	51	0,65
0,450	0,250	36	.010	41	1,13
0,450	0,280	35	.011	38	1,36
0,450	0,355	30	.015	31	1,99
0,450	0,400	30	.016	28	2,39

w = 0.475 – 0.95 mm

1	2	3	4	5	6
Aperture width w	Wire diameter d	Mesh ~	Wire diameter d	Open screening area A ₀	Weight G
mm	mm		inch	%	kg /m ²
0,475	0,125	43	.005	63	0,33
0,475	0,140	42	.0055	60	0,40
0,475	0,160	40	.0065	56	0,51
0,475	0,224	37	.009	46	0,91
0,475	0,250	35	.010	43	1,09
0,500	0,112	42	.0045	67	0,26
0,500	0,140	40	.0055	61	0,39
0,500	0,160	38	.0065	57	0,49
0,500	0,200	36	.008	51	0,73
0,500	0,224	35	.009	48	0,88
0,500	0,250	34	.010	44	1,06
0,500	0,340	30	.013	35	1,75
0,500	0,355	30	.014	34	1,87
0,500	0,400	28	.016	31	2,26
0,530	0,160	36	.0065	59	0,47
0,530	0,315	30	.0125	39	1,49
0,540	0,300	30	.012	41	1,36
0,560	0,160	35	.0065	60	0,45
0,560	0,180	35	.007	57	0,56
0,560	0,224	32	.009	51	0,81
0,560	0,250	31	.010	48	0,98
0,560	0,280	30	.011	44	1,19
0,560	0,355	28	.014	37	1,75
0,560	0,450	25	.018	31	2,55
0,560	0,500	24	.020	28	3,00
0,600	0,160	34	.0065	62	0,43
0,600	0,240	30	.0095	51	0,87
0,600	0,250	30	.010	50	0,93
0,600	0,280	29	.011	46	1,13
0,600	0,300	28	.012	44	1,27
0,600	0,380	26	.015	37	1,87
0,600	0,450	24	.018	33	2,45
0,630	0,160	32	.0065	64	0,41
0,630	0,224	30	.009	54	0,75
0,630	0,250	28	.010	51	0,90
0,630	0,280	28	.011	48	1,09
0,630	0,315	26	.013	44	1,33
0,630	0,400	25	.016	37	1,97

1	2	3	4	5	6
Aperture width w	Wire diameter d	Mesh ~	Wire diameter d	Open screening area A ₀	Weight G
mm	mm		inch	%	kg /m ²
0,67	0,160	30	.0065	65	0,39
0,67	0,180	30	.007	62	0,48
0,67	0,355	24	.015	43	1,56
0,71	0,180	29	.0071	64	0,46
0,71	0,190	28	.0075	62	0,51
0,71	0,250	26	.010	55	0,83
0,71	0,280	26	.011	51	1,01
0,71	0,315	25	.013	48	1,23
0,71	0,340	24	.013	46	1,40
0,71	0,355	24	.014	44	1,50
0,71	0,560	20	.023	31	3,14
0,71	0,710	18	.028	25	4,51
0,75	0,180	27	.0071	65	0,44
0,75	0,250	25	.010	56	0,79
0,75	0,400	22	.016	43	1,77
0,75	0,400	22	.015	43	1,77
0,80	0,190	26	.0075	65	0,46
0,80	0,200	26	.008	64	0,51
0,80	0,250	24	.010	58	0,76
0,80	0,280	24	.011	55	0,92
0,80	0,315	23	.0125	51	1,13
0,80	0,340	22	.013	49	1,29
0,80	0,355	22	.014	48	1,39
0,80	0,400	21	.016	44	1,69
0,80	0,450	20	.018	41	2,06
0,80	0,500	20	.020	38	2,44
0,85	0,190	24	.0075	67	0,44
0,85	0,200	24	.008	66	0,48
0,85	0,300	22	.012	55	0,99
0,85	0,400	20	.016	46	1,63
0,85	0,430	20	.017	44	1,83
0,85	0,630	18	.025	33	3,41
0,85	0,800	15	.032	27	4,93
0,90	0,200	23	.008	67	0,46
0,90	0,224	22	.009	64	0,57
0,90	0,315	21	.0125	55	1,04
0,90	0,355	20	.014	51	1,28
0,90	0,400	20	.016	48	1,56
0,90	0,450	19	.018	44	1,91
0,90	0,500	18	.020	41	2,27
0,90	0,710	16	.028	31	3,98
0,90	0,900	14	.035	25	5,72
0,90	1,000	12	.041	22	6,68
0,95	0,190	22	.0075	69	0,40
0,95	0,340	20	.013	54	1,14
0,95	0,450	18	.018	46	1,84

w = 1.00 – 2.12 mm

1	2	3	4	5	6
Aperture width	Wire diameter	Mesh	Wire diameter	Open screening area	Weight
w	d		d	A ₀	G
mm	mm	~	inch	%	kg /m ²
1,00	0,224	21	.009	67	0,52
1,00	0,250	20	.010	64	0,64
1,00	0,280	20	.011	61	0,78
1,00	0,315	19	.0125	58	0,96
1,00	0,355	19	.014	54	1,18
1,00	0,380	18	.015	53	1,33
1,00	0,400	18	.016	51	1,45
1,00	0,430	18	.017	49	1,64
1,00	0,500	17	.020	44	2,12
1,00	0,560	16	.022	41	2,55
1,00	0,580	16	.023	40	2,70
1,00	0,630	16	.025	38	3,09
1,00	0,710	15	.028	34	3,74
1,00	0,800	14	.032	31	4,52
1,00	0,900	13	.035	28	5,41
1,06	0,224	20	.009	68	0,50
1,06	0,355	18	.014	56	1,13
1,06	0,500	16	.020	46	2,04
1,12	0,250	18	.010	67	0,58
1,12	0,280	18	.011	64	0,71
1,12	0,315	18	.013	61	0,88
1,12	0,450	16	.018	51	1,64
1,12	0,560	15	.022	44	2,37
1,12	0,710	14	.028	37	3,50
1,18	0,224	18	.009	71	0,45
1,18	0,400	16	.016	56	1,29
1,18	0,450	15	.018	52	1,58
1,18	0,630	14	.025	43	2,78
1,18	0,800	13	.032	36	4,11
1,18	1,000	11	.041	29	5,83
1,25	0,250	17	.010	69	0,53
1,25	0,315	16	.013	64	0,81
1,25	0,355	16	.014	60	1,00
1,25	0,380	16	.015	59	1,13
1,25	0,400	15	.016	57	1,23
1,25	0,560	14	.022	48	2,20
1,25	0,580	14	.023	47	2,33
1,25	0,800	12	.032	37	3,96
1,25	1,000	11	.041	31	5,64
1,25	1,250	10	.050	25	7,94
1,32	0,300	16	.012	66	0,71
1,32	0,500	14	.020	53	1,74
1,32	1,120	10	.047	29	6,53

1	2	3	4	5	6
Aperture width	Wire diameter	Mesh	Wire diameter	Open screening area	Weight
w	d		d	A ₀	G
mm	mm	~	inch	%	kg /m ²
1,40	0,224	16	.009	74	0,39
1,40	0,25	16	.010	72	0,48
1,40	0,28	15	.011	69	0,59
1,40	0,45	14	.018	57	1,39
1,40	0,56	13	.023	51	2,03
1,40	0,71	12	.028	44	3,03
1,40	0,90	11	.035	37	4,47
1,50	0,56	12	.023	53	1,93
1,50	0,63	12	.025	50	2,37
1,50	1,00	10	.041	36	5,08
1,60	0,224	14	.009	77	0,35
1,60	0,28	14	.011	72	0,53
1,60	0,355	13	.014	67	0,82
1,60	0,50	12	.020	58	1,51
1,60	0,71	11	.028	48	2,77
1,60	0,80	11	.032	44	3,39
1,60	0,90	10	.035	41	4,11
1,60	1,40	8 ^{1/2}	.054	28	8,30
1,60	1,60	8	.063	25	10,16
1,70	0,63	11	.025	53	2,16
1,70	0,80	10	.032	46	3,25
1,70	1,12	9	.047	36	5,65
1,80	0,315	12	.013	72	0,60
1,80	0,355	12	.014	70	0,74
1,80	0,45	11	.018	64	1,14
1,80	0,71	10	.028	51	2,55
1,80	0,90	9	.035	44	3,81
1,90	0,63	10	.025	56	1,99
1,90	2,34	6	.092	20	16,40
2,00	0,315	11	.013	75	0,54
2,00	0,40	11	.016	69	0,85
2,00	0,50	10	.020	64	1,27
2,00	0,56	10	.022	61	1,56
2,00	0,63	9 ^{3/4}	.025	58	1,92
2,00	0,71	9 ^{1/2}	.028	54	2,36
2,00	0,90	8 ^{3/4}	.035	48	3,55
2,00	1,00	8 ^{1/2}	.040	44	4,23
2,00	1,12	8	.047	41	5,11
2,00	1,25	7 ^{3/4}	.049	38	6,11
2,00	1,40	7 ^{1/2}	.055	35	7,32
2,00	1,60	7	.063	31	9,03
2,00	2,00	6 ^{1/3}	.080	25	12,70
2,12	1,00	8	.041	46	4,07

w = 2.24 – 7.10 mm

1	2	3	4	5	6
Aperture width	Wire diameter	Mesh	Wire diameter	Open screening area	Weight
w	d		d	A ₀	G
mm	mm	~	inch	%	kg /m ²
2,24	0,40	10	.016	72	0,77
2,24	0,45	9 ^{1/2}	.018	69	0,96
2,24	0,90	8	.035	51	3,28
2,24	1,12	7 ^{1/2}	.044	44	4,74
2,24	2,00	6	.080	28	11,98
2,24	2,34	5 ^{1/2}	.092	24	15,18
2,36	0,80	8	.032	56	2,57
2,36	1,00	7 ^{1/2}	.040	49	3,78
2,36	1,40	7	.054	39	6,62
2,36	1,80	6	.072	32	9,89
2,36	2,00	5 ^{3/4}	.080	29	11,65
2,50	0,50	8 ^{1/2}	.020	69	1,06
2,50	0,63	8	.025	64	1,61
2,50	0,71	8	.028	61	1,99
2,50	1,00	7 ^{1/4}	.040	51	3,63
2,50	1,25	6 ^{3/4}	.049	44	5,29
2,50	1,40	6 ^{1/2}	.055	41	6,38
2,50	1,60	6	.063	37	7,93
2,80	0,40	8	.016	77	0,64
2,80	0,56	7 ^{1/2}	.022	69	1,19
2,80	0,80	7	.032	60	2,26
2,80	0,90	7	.035	57	2,78
2,80	1,00	6 ^{1/2}	.041	54	3,34
2,80	1,12	6 ^{1/2}	.045	51	4,06
2,80	1,40	6	.055	44	5,93
2,80	1,80	5 ^{1/2}	.071	37	8,95
2,80	2,34	5	.092	30	13,53
3,00	1,25	6	.047	50	4,67
3,00	2,00	5	.080	36	10,16
3,15	0,45	7	.018	77	0,71
3,15	0,56	6 ^{3/4}	.022	72	1,07
3,15	0,80	6 ^{1/2}	.032	64	2,06
3,15	1,00	6	.041	58	3,06
3,15	1,12	6	.045	54	3,73
3,15	1,25	5 ^{3/4}	.050	51	4,51
3,15	1,40	5 ^{1/2}	.055	48	5,47
3,15	1,60	5 ^{1/4}	.063	44	6,84
3,15	1,80	5	.071	40	8,31
3,35	0,90	6	.035	62	2,42
3,35	1,25	5 ^{1/2}	.049	53	4,31
3,35	1,80	5	.072	42	7,99
3,35	2,34	4 ^{1/2}	.092	35	12,22
3,35	3,00	4	.120	28	18,00

1	2	3	4	5	6
Aperture width	Wire diameter	Mesh	Wire diameter	Open screening area	Weight
w	d		d	A ₀	G
mm	mm	~	inch	%	kg /m ²
3,55	0,71	6	.028	69	1,50
3,55	0,90	5 ^{3/4}	.035	64	2,31
3,55	1,25	5 ^{1/4}	.050	55	4,13
3,55	1,60	5	.063	48	6,31
3,55	2,00	4 ^{1/2}	.080	41	9,15
3,55	2,50	4	.105	34	13,12
3,75	1,25	5	.047	56	3,97
4,00	0,50	5 ^{1/2}	.020	79	0,71
4,00	0,56	5 ^{1/2}	.022	77	0,87
4,00	0,71	5 ^{3/8}	.028	72	1,36
4,00	1,00	5	.041	64	2,54
4,00	1,25	4 ^{3/4}	.050	58	3,78
4,00	1,40	4 ^{3/4}	.055	55	4,61
4,00	1,60	4 ^{1/2}	.063	51	5,81
4,00	2,00	4 ^{1/4}	.080	44	8,47
4,00	2,24	4	.087	41	10,21
4,00	2,50	3 ^{3/4}	.105	38	12,21
4,50	1,80	4	.072	51	6,53
4,75	1,60	4	.063	56	5,12
5,00	1,12	4	.047	67	2,60
5,00	1,25	4	.049	64	3,18
5,00	1,40	4	.055	61	3,89
5,00	1,60		.063	57	4,93
5,00	1,80	3 ^{3/4}	.071	54	6,05
5,00	2,00		.080	51	7,26
5,60	1,25	3 ^{3/4}	.049	67	2,90
5,60	1,60	3 ^{1/2}	.063	60	4,52
5,60	1,80		.071	57	5,56
6,00	1,60		.063	62	4,28
6,00	2,00		.080	56	6,35
6,00	2,50	3	.100	50	9,34
6,30	1,00	3 ^{1/2}	.040	74	1,74
6,30	1,25		.049	70	2,63
6,30	1,40	3 ^{1/4}	.055	67	3,23
6,30	1,60		.063	64	4,12
6,30	1,80		.071	60	5,08
6,30	2,00	3	.080	58	6,12
6,30	2,50		.100	51	9,02
6,70	1,80	3	.071	62	4,84
7,10	1,40	3	.055	70	2,93
7,10	1,80		.071	64	4,62
7,10	2,00		.080	61	5,58

w = 8.00 – 16 mm

Mesh and Metric

1	2	3	4	5	6
w	d	Mesh	d	A ₀	G
mm	mm	~	inch	%	kg /m ²
8,00	1,00		.040	79	1,41
8,00	1,25	2 ³ / ₄	.049	75	2,15
8,00	1,60		.063	69	3,39
8,00	1,80		.071	67	4,20
8,00	2,00	2 ¹ / ₂	.080	64	5,08
8,00	2,20		.087	62	6,03
8,50	1,60	2 ¹ / ₂	.063	71	3,22
9,00	1,40		.055	75	2,39
9,00	2,20	2 ¹ / ₄	.087	65	5,49
9,50	2,20		.087	66	5,25
10	1,12		.044	81	1,43
10	1,40		.055	77	2,18
10	1,60		.063	74	2,80
10	1,80		.071	72	3,49
10	2,00		.080	69	4,23
10	2,50	2	.100	64	6,35
10	3,15		.125	58	9,58
11	2,50		.100	66	5,88
12,50	1,60		.063	79	2,31
12,50	1,80		.071	76	2,88
12,50	2,00		.080	74	3,50
12,50	2,50		.100	69	5,29
12,50	2,80		.110	67	6,51
12,50	3,15		.125	64	8,05
12,50	3,55		.140	61	9,97
12,50	4,00		.160	57	12,32
12,50	5,00		.200	51	18,14
13,20	2,80		.110	68	6,22
14	2,50		.100	72	4,81
14	2,80		.110	69	5,93
14	3,15		.125	67	7,35
15	2,00		.080	78	2,99
15	2,50		.100	73	4,54
15	4,00		.160	62	10,69
16	1,80		.071	81	2,31
16	2,00		.080	79	2,82
16	2,20		.087	77	3,38
16	2,50		.100	75	4,29
16	3,15		.125	70	6,58

10 Mesh

Mesh	w	d
10	2.24 mm .084"	0.4 mm .016"
10	1.9 mm .075"	0.63 mm .025"
10	1.6 mm .065"	0.9 mm .035"
10	1.5 mm .059"	1.0 mm .041"
10	1.25 mm .050"	1.25 mm .050"

w = 1.6 mm

Mesh	w	d
14	1.6 mm .063"	0.224 mm .009"
12	1.6 mm .063"	0.5 mm .020"
11	1.6 mm .063"	0.71 mm .028"
10	1.6 mm .065"	0.9 mm .035"
8	1.6 mm .063"	1.6 mm .063"

Industrial Woven Wire Cloth

635 – 2 Mesh

635 – 84 Mesh

1	2	3	4
Mesh	Wire diameter d	Aperture width w	Wire diameter d
~	inch	mm	mm
635	.0008	0,020	0,020
500	.0010	0,025	0,025
425	.0011	0,032	0,028
400	.0010	0,038	0,025
400	.0011	0,036	0,028
385	.0012	0,036	0,030
370	.0012	0,038	0,030
350	.0012	0,045	0,030
350	.0013	0,040	0,032
325	.0011	0,050	0,028
325	.0012	0,050	0,030
325	.0013	0,045	0,032
325	.0014	0,042	0,036
315	.0014	0,045	0,036
300	.0012	0,056	0,030
300	.0014	0,050	0,036
290	.0013	0,056	0,032
280	.0012	0,060	0,030
280	.0015	0,053	0,036
270	.0014	0,056	0,036
270	.0014	0,053	0,036
270	.0016	0,053	0,040
260	.0016	0,056	0,040
250	.0014	0,063	0,036
250	.0016	0,063	0,040
230	.0014	0,075	0,036
230	.0018	0,063	0,045
220	.0016	0,075	0,040
210	.0020	0,071	0,050
200	.0016	0,085	0,040
200	.0016	0,090	0,040
200	.0020	0,075	0,050
200	.0020	0,080	0,050
200	.0021	0,075	0,053
200	.0023	0,071	0,056
195	.0023	0,075	0,056
190	.0018	0,090	0,045
190	.0020	0,085	0,050
190	.0023	0,080	0,056
180	.0018	0,095	0,045
180	.0020	0,090	0,050
180	.0023	0,085	0,056

1	2	3	4
Mesh	Wire diameter d	Aperture width w	Wire diameter d
~	inch	mm	mm
170	.0020	0,100	0,050
170	.0022	0,090	0,056
170	.0024	0,090	0,063
165	.0019	0,106	0,050
155	.0022	0,106	0,056
155	.0025	0,100	0,063
150	.0022	0,112	0,056
150	.0026	0,100	0,067
150	.0028	0,100	0,071
145	.0022	0,118	0,056
140	.0028	0,112	0,071
140	.0030	0,106	0,076
135	.0023	0,132	0,056
135	.0025	0,125	0,063
135	.0032	0,106	0,080
130	.0032	0,112	0,080
124	.0032	0,125	0,080
120	.0025	0,150	0,063
120	.0026	0,140	0,067
120	.0035	0,125	0,090
120	.0037	0,118	0,095
115	.0035	0,132	0,090
110	.0028	0,160	0,071
110	.0032	0,150	0,080
105	.0030	0,160	0,075
100	.0040	0,150	0,100
100	.0040	0,160	0,100
100	.0045	0,140	0,112
100	.0045	0,150	0,112
94	.0035	0,180	0,090
94	.0040	0,170	0,100
94	.0045	0,160	0,112
90	.0035	0,190	0,090
90	.0040	0,180	0,100
90	.0050	0,160	0,125
88	.0035	0,200	0,090
88	.0040	0,190	0,100
87	.0045	0,180	0,112
85	.0050	0,180	0,125
84	.0035	0,212	0,090
84	.0040	0,200	0,100

80 – 26 Mesh

1	2	3	4
Mesh	Wire diameter d	Aperture width w	Wire diameter d
~	inch	mm	mm
80	.0037	0,224	0,095
80	.0040	0,212	0,100
80	.0050	0,200	0,125
80	.0055	0,180	0,140
78	.0037	0,230	0,095
78	.0040	0,224	0,100
77	.0037	0,236	0,095
76	.0037	0,240	0,095
76	.0040	0,236	0,100
75	.0055	0,200	0,140
74	.0037	0,250	0,095
72	.0037	0,260	0,095
72	.0040	0,250	0,100
70	.0037	0,270	0,095
70	.0040	0,265	0,100
70	.0050	0,250	0,125
70	.0060	0,212	0,140
70	.0065	0,200	0,160
68	.0065	0,212	0,160
66	.0040	0,285	0,100
66	.0045	0,265	0,112
64	.0045	0,280	0,112
62	.0040	0,300	0,100
62	.0045	0,300	0,112
62	.0063	0,250	0,160
60	.0040	0,315	0,100
60	.0045	0,315	0,112
60	.0065	0,265	0,160
60	.0070	0,250	0,180
60	.0075	0,236	0,190
60	.0080	0,224	0,200
58	.0040	0,335	0,100
58	.0045	0,325	0,112
58	.0050	0,315	0,125
56	.0040	0,355	0,100
56	.0045	0,335	0,112
56	.0080	0,250	0,200
55	.0065	0,300	0,160
55	.0071	0,280	0,180

1	2	3	4
Mesh	Wire diameter d	Aperture width w	Wire diameter d
~	inch	mm	mm
54	.0040	0,375	0,100
54	.0055	0,335	0,140
54	.0063	0,315	0,160
53	.0050	0,355	0,125
53	.0080	0,280	0,200
52	.0055	0,355	0,140
50	.0045	0,400	0,112
50	.0055	0,375	0,140
50	.0075	0,315	0,200
50	.0080	0,315	0,200
50	.0090	0,280	0,224
48	.0045	0,425	0,112
48	.0050	0,400	0,125
48	.0055	0,400	0,140
48	.0071	0,355	0,180
48	.0085	0,300	0,215
48	.0090	0,300	0,224
48	.010	0,300	0,250
46	.0045	0,450	0,112
46	.0050	0,425	0,125
46	.0055	0,412	0,140
45	.0085	0,355	0,215
45	.010	0,355	0,250
45	.0105	0,300	0,280
44	.0055	0,450	0,140
44	.0071	0,400	0,180
43	.0050	0,475	0,125
42	.0045	0,500	0,112
42	.0055	0,475	0,140
42	.010	0,355	0,250
40	.0055	0,500	0,140
40	.0065	0,475	0,160
40	.0070	0,450	0,180
40	.0080	0,425	0,200
40	.0085	0,425	0,215
40	.0090	0,400	0,224
40	.010	0,400	0,250
40	.010	0,375	0,250
38	.0065	0,500	0,160
38	.013	0,355	0,315
37	.0090	0,475	0,224

1	2	3	4
Mesh	Wire diameter d	Aperture width w	Wire diameter d
~	inch	mm	mm
36	.0065	0,53	0,160
36	.0080	0,50	0,200
36	.010	0,45	0,250
36	.011	0,425	0,280
35	.0065	0,56	0,160
35	.0070	0,56	0,180
35	.0090	0,50	0,224
35	.010	0,475	0,250
35	.011	0,45	0,280
35	.012	0,425	0,300
34	.0065	0,60	0,160
34	.010	0,50	0,250
32	.0065	0,63	0,160
32	.0090	0,56	0,224
32	.014	0,425	0,355
31	.010	0,56	0,250
30	.0065	0,67	0,160
30	.0070	0,67	0,180
30	.0090	0,63	0,224
30	.0095	0,60	0,240
30	.010	0,60	0,250
30	.011	0,56	0,280
30	.012	0,54	0,300
30	.0125	0,53	0,315
30	.013	0,50	0,340
30	.014	0,50	0,355
30	.015	0,45	0,355
30	.016	0,45	0,400
29	.0071	0,71	0,180
29	.011	0,60	0,280
29	.014	0,53	0,355
28	.0075	0,71	0,190
28	.010	0,63	0,250
28	.011	0,63	0,280
28	.012	0,60	0,300
28	.014	0,56	0,355
28	.016	0,50	0,400
27	.0071	0,75	0,180
26	.0075	0,80	0,190
26	.0080	0,80	0,200
26	.010	0,71	0,250
26	.011	0,71	0,280
26	.013	0,63	0,315
26	.015	0,60	0,380

25 – 8 1/2 Mesh

1	2	3	4
Mesh	Wire diameter d	Aperture width w	Wire diameter d
~	inch	mm	mm
25	.010	0,75	0,250
25	.013	0,71	0,315
25	.016	0,63	0,400
25	.018	0,56	0,450
24	.0075	0,85	0,190
24	.008	0,85	0,200
24	.010	0,80	0,250
24	.011	0,80	0,280
24	.013	0,71	0,340
24	.014	0,71	0,355
24	.015	0,67	0,355
24	.018	0,60	0,450
24	.020	0,56	0,500
23	.008	0,90	0,200
23	.0125	0,80	0,315
22	.0075	0,95	0,190
22	.009	0,90	0,224
22	.012	0,85	0,300
22	.013	0,80	0,340
22	.014	0,80	0,355
22	.015	0,75	0,400
22	.016	0,75	0,400
21	.009	1,00	0,224
21	.0125	0,90	0,315
21	.016	0,80	0,400
20	.009	1,06	0,224
20	.010	1,00	0,250
20	.011	1,00	0,280
20	.013	0,95	0,340
20	.014	0,90	0,355
20	.016	0,85	0,400
20	.016	0,90	0,400
20	.017	0,85	0,430
20	.018	0,80	0,450
20	.020	0,80	0,500
20	.023	0,71	0,560
19	.0125	1,00	0,315
19	.014	1,00	0,355
19	.018	0,90	0,450

1	2	3	4
Mesh	Wire diameter d	Aperture width w	Wire diameter d
~	inch	mm	mm
18	.009	1,18	0,224
18	.010	1,12	0,25
18	.011	1,12	0,28
18	.013	1,12	0,315
18	.014	1,06	0,355
18	.015	1,00	0,38
18	.016	1,00	0,40
18	.017	1,00	0,43
18	.018	0,95	0,45
18	.020	0,90	0,50
18	.025	0,85	0,63
18	.028	0,71	0,71
17	.010	1,25	0,25
17	.020	1,00	0,50
16	.009	1,40	0,224
16	.010	1,40	0,25
16	.012	1,32	0,30
16	.013	1,25	0,315
16	.014	1,25	0,355
16	.015	1,25	0,38
16	.016	1,18	0,40
16	.018	1,12	0,45
16	.020	1,06	0,50
16	.022	1,00	0,56
16	.023	1,00	0,58
16	.025	1,00	0,63
16	.028	0,90	0,71
15	.011	1,40	0,28
15	.016	1,25	0,40
15	.018	1,18	0,45
15	.022	1,12	0,56
15	.028	1,00	0,71
15	.032	0,85	0,80
14	.009	1,60	0,224
14	.011	1,60	0,28
14	.018	1,40	0,45
14	.020	1,32	0,50
14	.022	1,25	0,56
14	.023	1,25	0,58
14	.025	1,18	0,63
14	.028	1,12	0,71
14	.032	1,00	0,80
14	.035	0,90	0,90

1	2	3	4
Mesh	Wire diameter d	Aperture width w	Wire diameter d
~	inch	mm	mm
13	.014	1,60	0,355
13	.023	1,40	0,56
13	.032	1,18	0,80
13	.035	1,00	0,90
12	.013	1,80	0,315
12	.014	1,80	0,355
12	.020	1,60	0,50
12	.023	1,50	0,56
12	.025	1,50	0,63
12	.028	1,40	0,71
12	.032	1,25	0,80
12	.041	0,90	1,00
11	.013	2,00	0,315
11	.016	2,00	0,40
11	.018	1,80	0,45
11	.025	1,70	0,63
11	.028	1,60	0,71
11	.032	1,60	0,80
11	.035	1,40	0,90
11	.041	1,18	1,00
10	.016	2,24	0,40
10	.020	2,00	0,50
10	.022	2,00	0,56
10	.025	1,90	0,63
10	.028	1,80	0,71
10	.032	1,70	0,80
10	.035	1,60	0,90
10	.041	1,50	1,00
10	.047	1,32	1,12
10	.050	1,25	1,25
9 3/4	.025	2,00	0,63
9 1/2	.018	2,24	0,45
9 1/2	.028	2,00	0,71
9	.035	1,80	0,90
9	.047	1,70	1,12
8 3/4	.035	2,00	0,90
8 1/2	.020	2,50	0,50
8 1/2	.040	2,00	1,00
8 1/2	.054	1,60	1,40

8 – 2 Mesh

1	2	3	4
Mesh	Wire diameter d	Aperture width w	Wire diameter d
~	inch	mm	mm
8	.016	2,80	0,40
8	.025	2,50	0,63
8	.028	2,50	0,71
8	.032	2,36	0,80
8	.035	2,24	0,90
8	.041	2,12	1,00
8	.047	2,00	1,12
8	.063	1,60	1,60
7 ^{3/4}	.049	2,00	1,25
7 ^{1/2}	.022	2,80	0,56
7 ^{1/2}	.040	2,36	1,00
7 ^{1/2}	.044	2,24	1,12
7 ^{1/2}	.055	2,00	1,40
7 ^{1/4}	.040	2,50	1,00
7	.018	3,15	0,45
7	.032	2,80	0,80
7	.035	2,80	0,90
7	.054	2,36	1,40
7	.063	2,00	1,60
6 ^{3/4}	.022	3,15	0,56
6 ^{3/4}	.049	2,50	1,25
6 ^{1/2}	.032	3,15	0,80
6 ^{1/2}	.041	2,80	1,00
6 ^{1/2}	.045	2,80	1,12
6 ^{1/2}	.055	2,50	1,40
6 ^{1/3}	.080	2,00	2,00
6	.028	3,55	0,71
6	.035	3,35	0,90
6	.041	3,15	1,00
6	.045	3,15	1,12
6	.047	3,00	1,25
6	.055	2,80	1,40
6	.063	2,50	1,60
6	.072	2,36	1,80
6	.080	2,24	2,00
6	.092	1,90	2,34
5 ^{3/4}	.035	3,55	0,90
5 ^{3/4}	.050	3,15	1,25
5 ^{3/4}	.080	2,36	2,00

1	2	3	4
Mesh	Wire diameter d	Aperture width w	Wire diameter d
~	inch	mm	mm
5 ^{1/2}	.020	4,00	0,50
5 ^{1/2}	.022	4,00	0,56
5 ^{1/2}	.049	3,35	1,25
5 ^{1/2}	.055	3,15	1,40
5 ^{1/2}	.071	2,80	1,80
5 ^{1/2}	.092	2,24	2,34
5 ^{3/8}	.028	4,00	0,71
5 ^{1/4}	.050	3,55	1,25
5 ^{1/4}	.063	3,15	1,60
5	.041	4,00	1,00
5	.047	3,75	1,25
5	.063	3,55	1,60
5	.071	3,15	1,80
5	.072	3,35	1,80
5	.080	3,00	2,00
5	.092	2,80	2,34
4 ^{3/4}	.050	4,00	1,25
4 ^{3/4}	.055	4,00	1,40
4 ^{1/2}	.063	4,00	1,60
4 ^{1/2}	.080	3,55	2,00
4 ^{1/2}	.092	3,35	2,34
4 ^{1/4}	.080	4,00	2,00
4	.047	5,00	1,12
4	.049	5,00	1,25
4	.055	5,00	1,40
4	.063	4,75	1,60
4	.072	4,50	1,80
4	.087	4,00	2,24
4	.105	3,55	2,50
4	.120	3,35	3,00
3 ^{3/4}	.049	5,60	1,25
3 ^{3/4}	.071	5,00	1,80
3 ^{3/4}	.105	4,00	2,50
3 ^{1/2}	.040	6,30	1,00
3 ^{1/2}	.063	5,60	1,60
3 ^{1/4}	.055	6,30	1,40
3	.055	7,10	1,40
3	.071	6,70	1,80
3	.080	6,30	2,00
3	100	6,00	2,50
2 ^{3/4}	.049	8,00	1,25
2 ^{1/2}	.063	8,50	1,60
2 ^{1/2}	.080	8,00	2,00
2 ^{1/4}	.087	9,00	2,20
2	.100	10,00	2,50

Quality Assurance System

The HAVER & BOECKER quality assurance system is organized process-oriented. It is certified according to DIN EN ISO 9001: 2000 by the „DQS, Deutsche Gesellschaft zur Zertifizierung von Qualitätsmanagementsystemen mbH“.

Standards for Woven Wire Cloth and Industrial Wire Screens

DIN 4185

Screening Surfaces; Definitions and letter symbols for wire screens.

DIN ISO 4782

Metal wire for industrial wire screens and woven wire cloth.

DIN ISO 4783

Industrial wire screens and woven wire cloth; Guide to the choice of aperture size and wire diameter combinations.

DIN ISO 9044

Industrial woven wire cloth; Technical requirements and testing.

DIN ISO 9045

Industrial screens and screening; Vocabulary.

DIN ISO 14315

Industrial wire screens; Technical requirements and testing.

DIN ISO 3310

Test sieves; technical requirements and testing.

Industrial Woven Wire Cloth – Main Specifications and Materials

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
EXTRA LIGHT							LIGHT						MEDIUM						HEAVY					EXTRA HEAVY							
Aperture width W	Wire diameter d	Steel		Stainless Steel	Phosphor Bronze	Brass	Wire diameter d	Steel		Stainless Steel	Phosphor Bronze	Brass	Wire diameter d	Steel		Stainless Steel	Phosphor Bronze	Brass	Wire diameter d	Steel		Stainless Steel	Phosphor Bronze	Brass	Wire diameter d	Steel		Stainless Steel	Phosphor Bronze	Brass	Aperture width W
		plain	galvanized					plain	galvanized					plain	galvanized					plain	galvanized					plain	galvanized				
mm	mm	bk	vk	VA	Bz	Ms	mm	bk	vk	VA	Bz	Ms	mm	bk	vk	VA	Bz	Ms	mm	bk	vk	VA	Bz	Ms	mm	bk	vk	VA	Bz	Ms	mm
0,025 0,032																			0,025 0,028			VA VA									0,025 0,032
0,036 0,038 0,04 0,042 0,045 0,05 0,053 0,056 0,063	0,028			VA			0,025			VA	Bz		0,028			VA			0,03 0,03 0,032			VA VA VA Bz			0,036 0,036			VA	Bz		0,036 0,038 0,04 0,042 0,045 0,05 0,053 0,056 0,063
0,071 0,075 0,08 0,09 0,1 0,112 0,125	0,036 0,05			VA			0,05 0,063 0,056			VA	Bz		0,05 0,056 0,067 0,071 0,08			VA VA VA Bz VA Bz VA Bz			0,05 0,053 0,056 0,063 0,071			VA VA VA Bz VA Bz VA Bz			0,056		VA			0,071 0,075 0,08 0,09 0,1 0,112 0,125	
0,14 0,15 0,16 0,18 0,2 0,224 0,25	0,071 0,09 0,095 0,095			VA	Bz		0,067 0,075 0,09			VA VA VA			0,1 0,1 0,112 0,125			VA VA VA Bz VA Bz	Ms		0,1 0,112 0,112 0,125 0,14 0,16			VA VA VA Bz VA Bz VA Bz		VA Bz Ms	0,112 0,14 0,16 0,2 0,2		VA VA VA Bz VA	Bz		0,14 0,15 0,16 0,18 0,2 0,224 0,25	
0,28 0,315 0,355 0,4 0,45 0,5	0,1 0,1 0,1 0,112 0,112 0,14			VA	Bz		0,112 0,112 0,125 0,125 0,14 0,16			VA VA VA VA Bz VA VA			0,16 0,18 0,18 0,2 0,2			VA VA VA VA VA	Ms		0,18 0,2 0,224 0,25 0,25	bk	vk	VA VA VA Bz VA Bz VA Bz	Ms	VA Bz Ms Ms Mi	0,224 0,25 0,25 0,25 0,28 0,315		VA VA VA VA VA	Bz	Ms	0,28 0,315 0,355 0,4 0,45 0,5	
0,56 0,63 0,71 0,8 0,9 1	0,16 0,16 0,18 0,2 0,2 0,224			VA			0,224 0,224 0,25			VA VA Bz VA	Ms		0,25 0,25 0,315 0,315 0,355	bk	vk	VA VA VA Bz VA Bz	Ms		0,28 0,28 0,315 0,45			VA VA VA VA	Ms	VA Bz Ms Ms	0,355 0,4 0,45 0,5 0,58	bk	vk	VA VA VA Bz VA	Ms	0,56 0,63 0,71 0,8 0,9 1	
1,12 1,25 1,4 1,6 1,8 2	0,25 0,25 0,224 0,28 0,315 0,355			VA	Bz		0,315 0,315 0,25 0,355	bk	vk	VA VA VA Bz VA	Ms		0,4 0,42 0,5 0,56			vk vk VA VA	Ms		0,45 0,56 0,71 0,71			VA VA VA		VA Bz Ms	0,56 0,63 1,25 0,8 0,8 0,9		VA VA VA	Ms	Ms	1,12 1,25 1,4 1,6 1,8 2	
2,5 3,15 4	0,45 0,56			vk	VA		0,5 0,56 0,71			vk vk VA	VA	Ms	0,71 0,8 1	bk	vk	VA VA VA	Ms		1,12 1,25			VA VA		VA	1 1,25 1,4	bk	vk	VA VA VA	Ms	Ms	2,5 3,15 4
5 6,3 8	1			VA			0,9 1 1,25			vk vk VA	VA		1,25 1,4 1,6			vk vk VA	VA		1,6 1,8 2			VA VA VA		VA Bz Ms	1,8 2		vk VA	VA	Ms	5 6,3 8	
10 12,5 16	1,12	bk	vk	VA			1,4 1,6 1,8	bk	vk	VA VA VA			1,8 2 2	bk	vk	VA VA VA			2 2,5 2,24			VA VA VA		VA Ms	2,5 3,15	bk	vk	VA	Ms	10 12,5 16	

Testing of Woven Wire Cloth according to ISO 9044

Determination of the wire diameter

The wire diameter after weaving may be determined by using one of the following procedures:

1. by measuring wires which have been loosened from the woven wire cloth (e.g. by using a **micrometer screw**),
2. by measuring the wires in the cloth, if there is sufficient space for the measuring instrument.

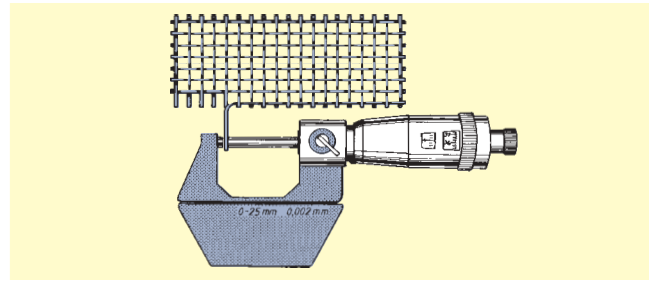
The tolerance of the wire before weaving can no longer be determined in the woven wire cloth, because of its heavy deformation during weaving. The nominal wire diameter, however, can be calculated using the empirical weight formula.

Aperture width (Measuring row method)

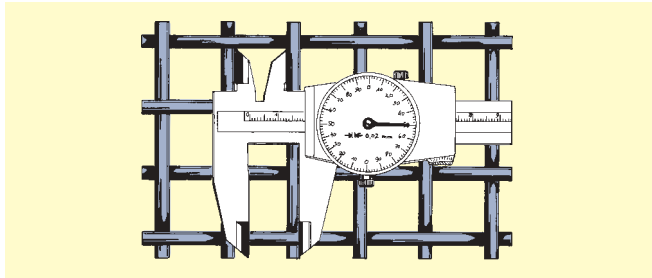
In this simplified method, the number of pitches (p) in a given length (L) is determined. The given length is then divided by the number of pitches to give the average pitch. Subtraction of the wire diameter (d) from the average pitch then gives the aperture width (w).

To determine the arithmetical mean value of the aperture widths, as many pitches have to be measured as are necessary to obtain a representative value.

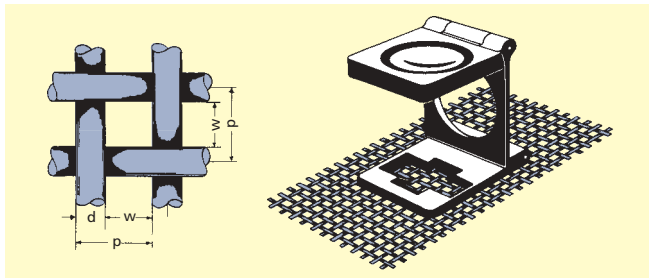
When measuring aperture widths between 16 and 1 mm 10 pitches have to be checked; smaller aperture widths – up to 0.1 mm – should be checked within 20 pitches.



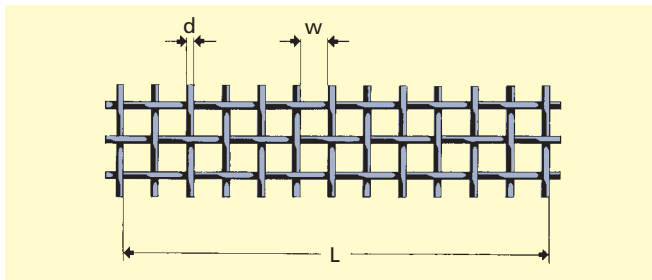
Micrometer screw to determine the wire diameter



Calliper (vernier) for measuring aperture widths of more than 4 mm; it may be used for aperture widths of more than 10 mm, too.



Counting glass for measuring aperture widths less than 1 mm in a measuring row with determined length



Measuring row with determined length for aperture widths of 1 up to 16 mm

Inspection Document according to DIN EN 10204

Certificate of compliance with the order 2.1

General text, e.g. printed form of documents of compliance. It is certified that the products supplied are in compliance with the specifications of the order, without mention of any test results. In general the certificate of compliance with the order 2.1 is free of charge.

Test report 2.2

The test report confirms that the products supplied are in compliance with the specifications of the order. The test results are based on non-specific inspection and testing, i.e. not carried out on the products supplied. The test report 2.2 is at the clients expense.

Inspection certificate 3.1 B

Specific test, i.e. delivered material itself is tested. It is important to state the kind of tests required on the order. DIN / ISO 9000 demands inspections made by independant experts starting with the rawmaterial (e.g. weaving wire) and ending with the finished product. The results are put down in writing. The inspection certificate 3.1 B cannot be carried out afterwards. It is at the clients expense.

**Woven Wire Cloth:
Rolls, Pieces, Strips, Discs, Fabricated Parts, Filters,
Screen Sections; Particle Size Analysis.**



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