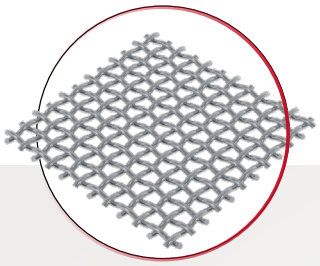
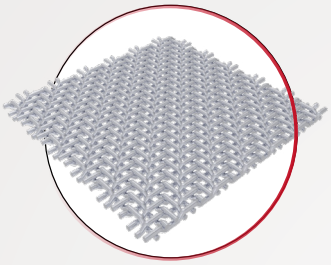
Square Weave Wire Cloth

Square weave wire cloth, also known as industrial woven wire cloth, is the most widely used and common type. We offer a broad range of industrial woven wire cloth – coarse mesh and fine mesh in plain and twill weave. Since wire cloth is produced in such varying combinations of materials, wire diameters and opening sizes, its use has been widely accepted throughout the industry. It is extremely versatile in application. Typically, it is often used for screening and classifying, such as test sieves, rotary shaking screens as well as shale shaker screens.



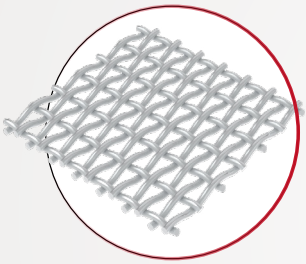
PLAIN WEAVE

The simplest and most commonly used type with square openings. It is woven by alternating the weft wire over and under the warp wire and permits positive control of size of materials to be screened or filtered.



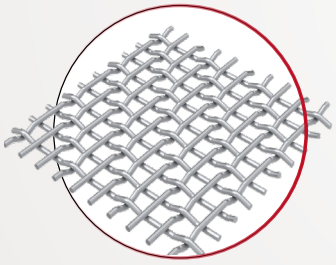
TWILL WEAVE

Each weft wire passes alternately over and under 2 warp wires, staggered on successive warps. It is used where fine mesh must carry a heavy load.



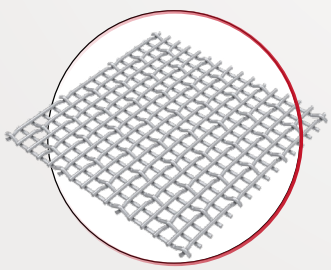
OBLONG WEAVE

Also known as broad weave, it is made preferably in plain weave with an opening ratio (length/width) of 3:1. Other ratios are possible. Triple warp weave is also available to provide large open areas. It is used for vibrating sieving screens or other architectural applications.



3-HEDDLE WEAVE

In this weave type, every warp wire alternately passes up and down each one and two weft wires alternately. Similarly, each weft wire goes alternately up and down of each and two warp wires. It is widely used in industry filters, filter discs and filter cylinders for filtration.

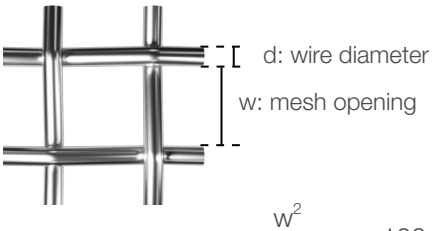


5-HEDDLE WEAVE

In this weave type, every warp wire alternately up and down each single and four weft wires and vice versa. It provides a rectangular opening and offers high flow rates. It is widely used in filtration of petroleum & chemical industries.

SPECIFICATIONS

Material: stainless steel 304, 304L, 316, 316L, 321, 430, 317L, 904L, etc..
Wire diameter: 0.02–2 mm
Mesh count: 2.1–635 mesh
Aperture width: 0.02–10.1 mm
Open screening area: 25% – 71%



$$\text{open screen area} = \frac{w^2}{(w+d)^2} \times 100$$

Fine Mesh

Mesh Count	Wire Diameter		Aperture		Open Area	Max. Width	Theoretical Weight
	Inch	mm	Inch	mm	%	mm	kg/sqm
1 × 1	0.08"	2.03	0.92"	23.37	84.6	2000	2.06
2 × 2	0.063"	1.6	0.437"	11.1	76.4	2000	2.56
3 × 3	0.054"	1.37	0.279"	7.09	70.1	2000	2.82
4 × 4	0.063"	1.6	0.187"	4.75	56	2000	5.12
4 × 4	0.047"	1.19	0.203"	5.16	65.9	2000	2.83
5 × 5	0.041"	1.04	0.159"	4.04	63.2	2000	2.7
6 × 6	0.035"	0.89	0.132"	3.35	62.7	2000	2.38
8 × 8	0.028"	0.71	0.097"	2.46	60.2	2000	2.02
10 × 10	0.025"	0.64	0.075"	1.91	56.3	2000	2.05
10 × 10	0.02"	0.51	0.08"	2.03	64	2000	1.3
12 × 12	0.023"	0.584	0.06"	1.52	51.8	2000	2.05
12 × 12	0.02"	0.508	0.063"	1.6	57.2	2000	1.55
14 × 14	0.023"	0.584	0.048"	1.22	45.2	2000	2.39
14 × 14	0.02"	0.508	0.051"	1.3	51	2000	1.81
16 × 16	0.018"	0.457	0.0445"	1.13	50.7	2000	1.67
18 × 18	0.017"	0.432	0.0386"	0.98	48.3	2000	1.68
20 × 20	0.02"	0.508	0.03"	0.76	36	2000	2.58
20 × 20	0.016"	0.406	0.034"	0.86	46.2	2000	1.65
24 × 24	0.014"	0.356	0.0277"	0.7	44.2	2000	1.52
30 × 30	0.013"	0.33	0.0203"	0.52	37.1	2000	1.63
30 × 30	0.012"	0.305	0.0213"	0.54	40.8	2000	1.4
30 × 30	0.009"	0.229	0.0243"	0.62	53.1	2000	0.79
35 × 35	0.011"	0.279	0.0176"	0.45	37.9	2000	1.36
40 × 40	0.01"	0.254	0.015"	0.38	36	2000	1.29
50 × 50	0.009"	0.229	0.011"	0.28	30.3	2000	1.31
50 × 50	0.008"	0.203	0.012"	0.31	36	2000	1.03
60 × 60	0.0075"	0.191	0.0092"	0.23	30.5	2000	1.09
60 × 60	0.007"	0.178	0.0097"	0.25	33.9	2000	0.95
70 × 70	0.0065"	0.165	0.0078"	0.2	29.8	2000	0.95
80 × 80	0.0065"	0.165	0.006"	0.15	23	2000	1.09
80 × 80	0.0055"	0.14	0.007"	0.18	31.4	2000	0.78
90 × 90	0.005"	0.127	0.0061"	0.16	30.1	2000	0.73
100 × 100	0.0045"	0.114	0.0055"	0.14	30.3	2000	0.65
100 × 100	0.004"	0.102	0.006"	0.15	36	2000	0.52
100 × 100	0.0035"	0.089	0.0065"	0.17	42.3	2000	0.4
110 × 110	0.004"	0.1016	0.0051"	0.1295	30.7	2000	0.57
120 × 120	0.0037"	0.094	0.0064"	0.1168	30.7	2000	0.53
150 × 150	0.0026"	0.066	0.0041"	0.1041	37.4	2000	0.33
160 × 160	0.0025"	0.0635	0.0038"	0.0965	36.4	2000	0.32
180 × 180	0.0023"	0.0584	0.0033"	0.0838	34.7	2000	0.31
200 × 200	0.0021"	0.0533	0.0029"	0.0737	33.6	2000	0.28
250 × 250	0.0016"	0.0406	0.0024"	0.061	36	2000	0.21
270 × 270	0.0016"	0.0406	0.0021"	0.0533	32.2	2000	0.22
300 × 300	0.0051"	0.0381	0.0018"	0.0457	29.7	2000	0.22
325 × 325	0.0014"	0.0356	0.0017"	0.0432	30	2000	0.21
400 × 400	0.001"	0.0254	0.0015"	0.37	36	2000	0.13
500 × 500	0.001"	0.0254	0.001"	0.0254	25	2000	0.16
635 × 635	0.0008"	0.0203	0.0008"	0.0203	25	2000	0.13

Manufacturing & Test Standard

+ ASTM E2016 Standard Specification for Industrial Woven Wire Cloth
+ ASTM E2814 Standard Specification for Industrial Woven Wire Filter Cloth
+ ISO 9044 Industrial Woven Wire Cloth – Technical Requirements and Tests
+ ISO 4783-1 Industrial wire screens and woven wire cloth – Guide to the choice of aperture size and wire diameter combinations
+ ISO 3310 Test sieves – Technical Requirements and Testing

Stainless Steel Woven Mesh – Bolting Cloth

Mesh Count	Wire Diameter		Aperture		Open Area	Max. Width
	Inch	mm	Inch	mm	%	mm
16 × 16	0.009"	0.229	0.0535"	1.36	73.3	1600
18 × 18	0.009"	0.229	0.0466"	1.18	70.1	1600
24 × 24	0.0075"	0.191	0.0342"	0.869	67.2	1600
28 × 28	0.0075"	0.191	0.0282"	0.716	62.3	1600
30 × 30	0.0065"	0.165	0.0268"	0.681	64.8	1600
36 × 36	0.0065"	0.165	0.0213"	0.541	58.7	1600
40 × 40	0.0065"	0.165	0.0185"	0.47	54.8	1600
50 × 50	0.0055"	0.127	0.0145"	0.368	55.3	1600
60 × 60	0.0045"	0.114	0.0122"	0.31	53.5	1600
70 × 70	0.0037"	0.094	0.0106"	0.269	54.9	1600
76 × 76	0.0037"	0.094	0.0095"	0.241	51.8	1600
80 × 80	0.0037"	0.094	0.0088"	0.224	49.6	1600
90 × 90	0.0035"	0.089	0.0076"	0.193	46.8	1600
94 × 94	0.0035"	0.089	0.0071"	0.18	44.8	1600
105 × 105	0.003"	0.076	0.0065"	0.165	46.9	1600
120 × 120	0.0025"	0.064	0.0058"	0.147	48.5	1600
130 × 130	0.0017"	0.043	0.0059"	0.152	60.8	1600
160 × 160	0.0014"	0.036	0.0048"	0.123	59.8	1600
180 × 180	0.0012"	0.03	0.0028"	0.205	76.1	1600
200 × 200	0.0016"	0.04	0.0034"	0.0864	46.7	1600
230 × 230	0.0014"	0.0356	0.0029"	0.0737	45.5	1600
250 × 250	0.0012"	0.03	0.0028"	0.0716	49.7	1600
325 × 325	0.0012"	0.03	0.0028"	0.048	37.9	1600
400 × 400	0.0009"	0.022	0.0016"	0.0415	42.7	1600