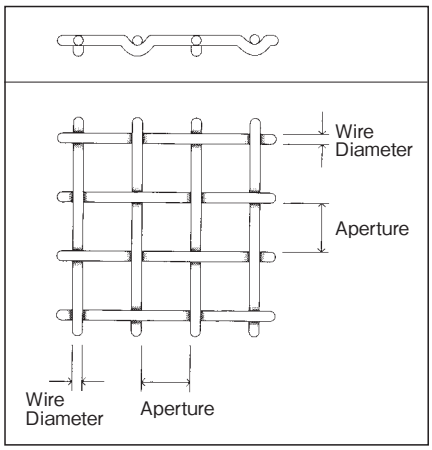
Stainless Steel Sieves - Metal Wire Cloth Type

Test Sieves JIS Z 8801 Standard

Metal Wire Mesh

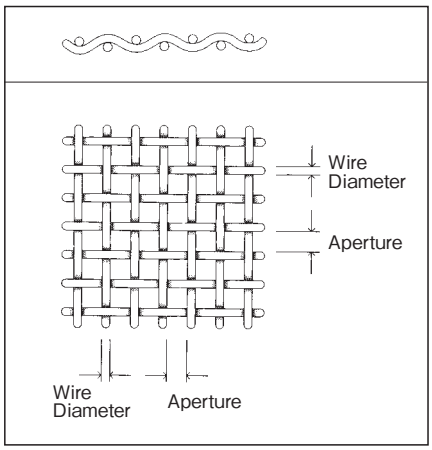
According to the JIS standard, the metal wire mesh of sieves is defined such that each metal wire should cross vertically, shaping a regular square as the aperture for screens (flat weave). When one side of the square (aperture) is less than 45 μm, the mesh may be woven into twill by wires (twill weave). To comply with the JIS standard, Tokyo Screen embraces two types of wire cloth: (1) flattop weave when the aperture is over 2.36 mm, and (2) twill weave when the aperture is less than 38 μm.

● Flattop Weave Mesh



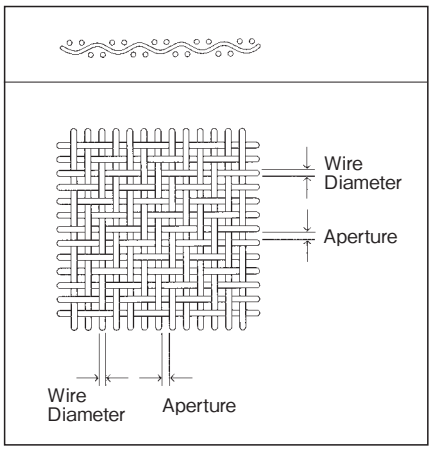
Flattop weave is used for screening large and middle-size particles. The surface of the mesh is designed to be flat and smooth.

● Flat Weave Mesh



Flat weave mesh is basic as each wire crosses vertically to keep the aperture squares stable in the screen. This standard cross enables accurate and effective screening.

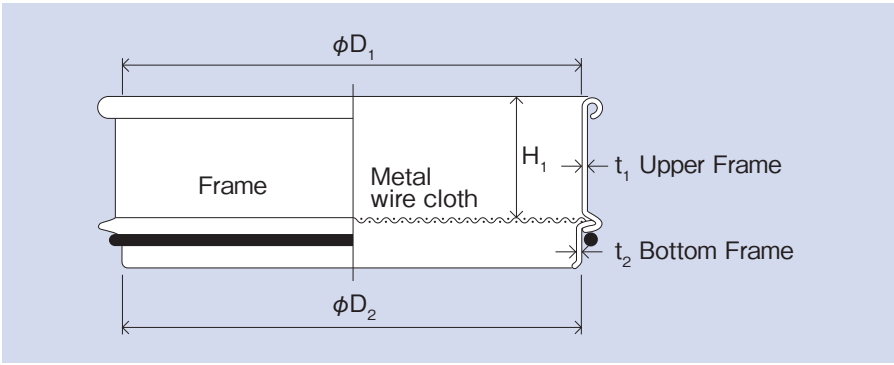
● Twill Weave Mesh



Twill weave mesh is structured by crossing two parallel wires with each other in one uneven pattern. The mesh is woven using thick wires and is good for screening small particles.

Frame of Sieves

Cross-section of Sieves



Scale and Tolerance of Test Sieves

Unit : mm

Nominal frame size		Diameter or length of Effective sieving surface		Depth	Frame plate Thickness	
D_1	D_2	Minimum	Maximum	H_1	t_1 Upper Frame	t_2 Bottom Frame
300 $^{+0.6}_{0}$	300 $^{-0.1}_{-0.7}$	285	300	100 or 60	0.6	1.0
200 $^{+0.6}_{0}$	200 $^{-0.1}_{-0.7}$	185	200	100, 60, 45, or 25	0.6	1.0
150 $^{+0.6}_{0}$	150 $^{-0.1}_{-0.7}$	135	150	60, 45, or 25	0.6	1.0
75 $^{+0.6}_{0}$	75 $^{-0.1}_{-0.7}$	65	75	20	0.4	0.4

*Please see pp. 4 and 5 for data on the apertures.

Scale Code of Sieves

ϕ75㎜×20㎜ H	JTS-75-20-Code	Available for an aperture less than 9.5 mm
ϕ150㎜×25㎜ H	JTS-150-25-Code	Available for an aperture less than 45 mm
ϕ150㎜×45㎜ H	JTS-150-45-Code	Available for an aperture less than 45 mm
ϕ150㎜×60㎜ H	JTS-150-60-Code	Available for an aperture less than 45 mm
ϕ200㎜×25㎜ H	JTS-200-25-Code	
ϕ200㎜×45㎜ H	JTS-200-45-Code	
ϕ200㎜×60㎜ H	JTS-200-60-Code	
ϕ200㎜×100㎜ H	JTS-200-100-Code	
ϕ300㎜×60㎜ H	JTS-300-60-Code	
ϕ300㎜×100㎜ H	JTS-300-100-Code	
ϕ50㎜×20㎜ H	TS-50-20-Code	Available for an aperture less than 9.5 mm
ϕ75㎜×45㎜ H	TS-75-45-Code	Available for an aperture less than 9.5 mm
ϕ100㎜×45㎜ H	TS-100-45-Code	Available for an aperture less than 16 mm
ϕ200㎜×50㎜ H	ISO-200-50-Code	
ϕ250㎜×60㎜ H	TS-250-60-Code	
ϕ350㎜×100㎜ H	TS-350-100-Code	Not available for an aperture less than 32 ㎛
ϕ400㎜×100㎜ H	TS-400-100-Code	Not available for an aperture less than 32 ㎛
ϕ450㎜×100㎜ H	TS-450-100-Code	Not available for an aperture less than 32 ㎛
ϕ500㎜×100㎜ H	TS-500-100-Code	Not available for an aperture less than 32 ㎛

Aperture	
Code	Scale
01	125 ㎜
02	106
03	90
04	75
05	63
06	53
07	45
08	37.5
09	31.5
10	26.5
11	22.4 ㎜
12	19
13	16
14	13.2
15	11.2
16	9.5
17	8
18	6.7
19	5.6
20	4.75
21	4 ㎜
22	3.35
23	2.8
24	2.36
25	2
26	1.7
27	1.4
28	1.18
29	1

Aperture	
Code	Scale
30	850 ㎛
31	710
32	600
33	500
34	425
35	355
36	300
37	250
38	212
39	180
41	150 ㎛
42	125
43	106
45	90
46	75
47	63
48	53
49	45
50	38
51	32
52	25
53	20

60	Pan/cover
61	Pan Only
62	Cover Only
63	Middle Pan