

# COMMON WEAVING STYLES

## **PLAIN WEAVE**

Most commonly used weave. Each weft wire passes alternately over and under each warp wire and each warp wire passes alternately over and under each weft wire. Warp and weft wire diameters are generally the same.

## **TWILL WEAVE**

Warp and weft wires pass alternately over and under two wires in a staggered arrangement. Twill weave is normally used to allow a heavier than standard wire diameter in association with a given mesh.

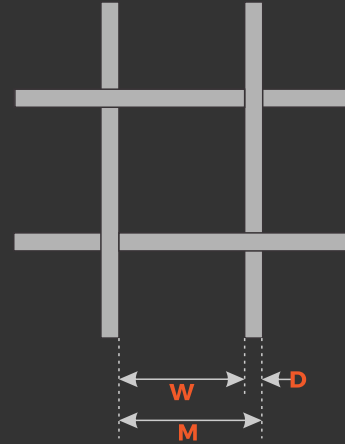
## **DUTCH WEAVE**

Same weaving pattern as plain except the warp wires are of a larger diameter than the weft wires and weft wires lie as close as possible to each other. This forms a dense strong material with small, irregular and twisting passageways that appear triangular when diagonally viewing the weave.

## **TWILL DUTCH WEAVE**

A combination of the Dutch and Twill weaves that gives a double layer of weft wires. There are no straight through openings between the wires and the filtrate would follow a sinuous path through the depth of the wire cloth.

# WOVEN WIRE CLOTH FORMULA


**OPENING WIDTH:**

$$W = (1/M) - D$$

**MESH COUNT:**

$$M = 1 / (D+W)$$

**WIRE DIAMETER:**

$$D = (1-MW)/M$$

**PERCENT OPEN AREA:**

$$\text{Percent} = (WM) * (WM) * 100$$

## DUTCH WEAVE

Most common sizes listed. Please contact us with your unique requirements

MESH COUNT	WIRE DIAMETER (INCHES)	MICRON RATING
12x64	.023x.016	270-290
14x88	.020x.013	220-240
24x110	.015x.010	112-125
30x150	.009x.007	95-110
40x200	.007x.005	70-75
50x250	.0055x.0045	56-63
60x300	.0055x.0035	45-53
165x800 Twilled	.0028x.0020	24-26
200x600 Twilled	.0022x.0018	28-32
325x2300 Twilled	.0014X.0010	8-9



# PLAIN WEAVE

Most common sizes listed. Please contact us with your unique requirements

MESH COUNT	WIRE DIAMETER (INCHES)	OPENING WIDTH (INCHES)	OPEN AREA %
2	0.063	0.437	76.4
6	0.035	0.132	62.4
8	0.028	0.097	60.2
8	0.035	0.090	51.8
10	0.025	0.075	56.3
10	0.035	0.065	42.3
10	0.047	0.053	28.1
12	0.023	0.060	52.4
12	0.035	0.048	33.6
14	0.020	0.051	51.8
14	0.035	0.036	26.0
16	0.009	0.054	73.3
16	0.018	0.045	50.7
16	0.023	0.040	39.9
16	0.028	0.035	30.5
18	0.017	0.039	48.2
20	0.016	0.034	46.2
20	0.020	0.030	36.0
24	0.014	0.028	44.1
25	0.016	0.024	36.0
30	0.0065	0.027	64.8
30	0.012	0.021	41.0
40	0.010	0.015	36.0
50	0.009	0.011	30.3
60	0.0045	0.012	53.3
60	0.0075	0.009	30.3
80	0.0055	0.007	31.4
100	0.004	0.006	36.0
100	0.0045	0.006	30.3
120	0.0035	0.005	33.6
150	0.0026	0.004	37.2
180	0.0018	0.004	45.7
200	0.0021	0.003	33.6
230	0.0014	0.003	46.0
250	0.0016	0.002	36.0
325	0.0014	0.002	29.7
400	0.0012	0.001	27.0
500	0.001	0.001	25.0