

Hexagonal Wire Mesh also called chicken wire, or poultry netting, is a mesh of wire commonly used to fence poultry livestock, such as chickens, in a run or coop. It is made of thin, flexible galvanized steel wire, with hexagonal gaps conform to EN 10223-2 standard.

Available mesh sizes range from 13 mm to 100 mm (Figure 1), hexagonal wire mesh is available in various wire diameter usually 0.5 mm wire to 1.6 mm (Table 1). Hexagonal wire mesh is occasionally used to build inexpensive cages for small animals (or to protect plants and property from animals) though the thinness and zinc content of galvanized wire may be inappropriate for animals prone to gnawing and will not keep out predators.

In construction, hexagonal wire mesh or hardware cloth is used as a metal lath to hold cement or plaster, in a process known as stuccoing. Concrete reinforced with hexagonal wire mesh or hardware cloth yields ferrocement, a versatile construction material. It can also be used to make the armature for a papier-mâché sculpture, when relatively high strength is needed.

Table 1 Mesh		Wire
Size mm	Tolerance mm	Diameter mm
13	± 1.5	0.5 - 0.7
20	± 2.0	0.7 - 0.9
25	± 3.0	0.6 - 1.0
30	± 4.0	0.9 - 1.2
40	± 5.0	0.9 - 1.2
50	± 6.0	0.9 - 1.2
75	± 8.0	1.0 - 1.4
100	± 8.0	1.6

Note: customized is available

Twist

The tight helical winding of two wires around each other measured as each revolution of the two wires over 180°;

in the case of regular twist, the wires rotate only in one direction, the minimum number of twists is three (Figure 2); in the case of reverse twist the two wires are first twisted in one direction and then in the other direction; in the short transition zone the two wires are straightened parallel, the minimum number of twists is 1" in each direction (Figure 3).

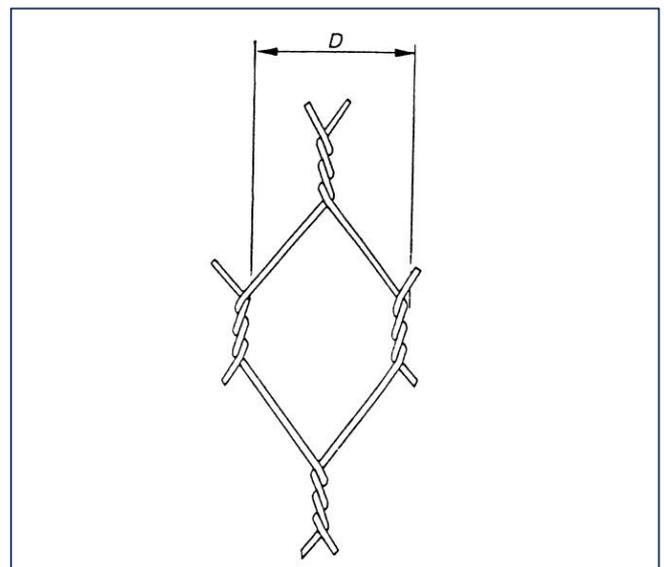


Figure 1 – Mesh Size

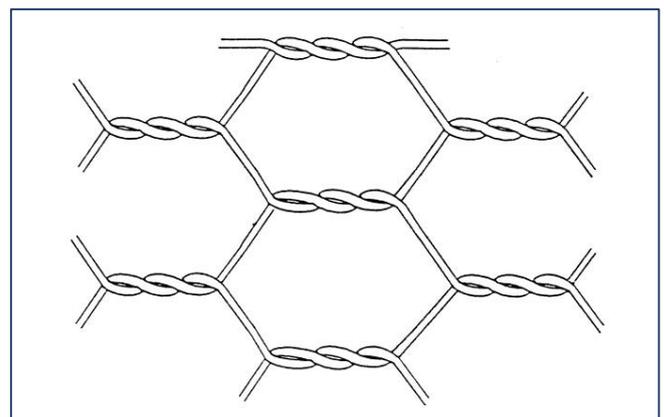


Figure 2 – Regular Twist

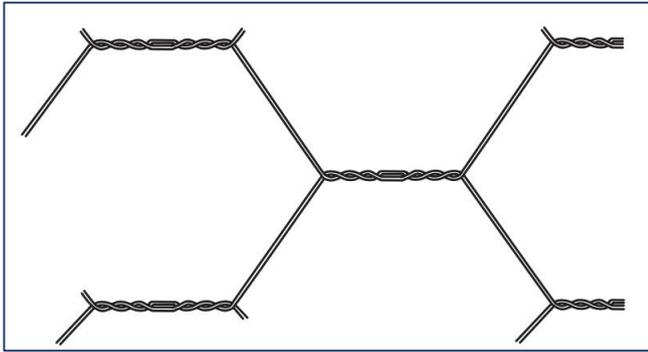
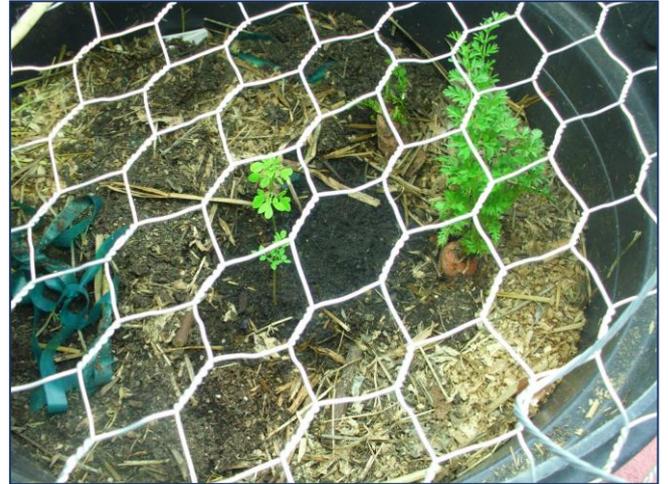


Figure 3 – Revers Twist

Application of Hexagonal Wire Mesh



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