

Splash Fill Systems

Your Single Source for Cooling Tower Components!

Since the 1960's, C. E. Shepherd Company has offered an outstanding line of high quality cooling tower components. Shepherd components resist corrosion from extended exposure to water and hostile environmental conditions better than any competitive products. Engineered for retrofit or new construction, Shepherd Cooling Tower Components are easy to install and reduce overall labor costs.

A single source for prompt delivery from stock streamlines purchasing, reduces costs and ensures a fully integrated system thus assuring the same high degree of quality cooling tower professionals have come to expect from C. E. Shepherd Company.

Hanger Grids

Shepherd Fill Slat Hangers are precision welded wire with uniform grid size and superior corrosion resistance. Hangers are available in galvanized, PVC coated or stainless steel mesh. Standard grids are manufactured and stocked in a variety of gauges, straight or racked. Custom grids may be made to order. Time tested Shepherd Fill Slat Hangers deliver longer tower life and virtually eliminate fill support failure. Consider these additional benefits:

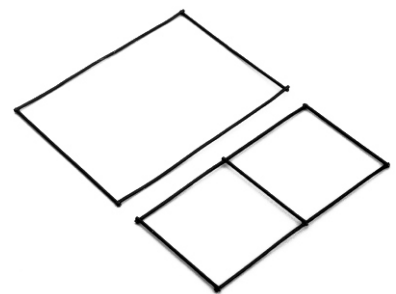
- No loss of resin or tensile strength from age or constant exposure to water. Materials don't become brittle with age.
- Greater tensile strength and rigidity simplify handling and installation.
- Self-extinguishing materials virtually eliminate fire hazards.
- Higher load bearing strength.

Hanger Brackets

Hanger Brackets, manufactured from high quality, corrosion resistant polypropylene, are designed to work in concert with Shepherd Fill Slat Hangers to make installation faster, easier and more efficient.

Splash Fill System Components

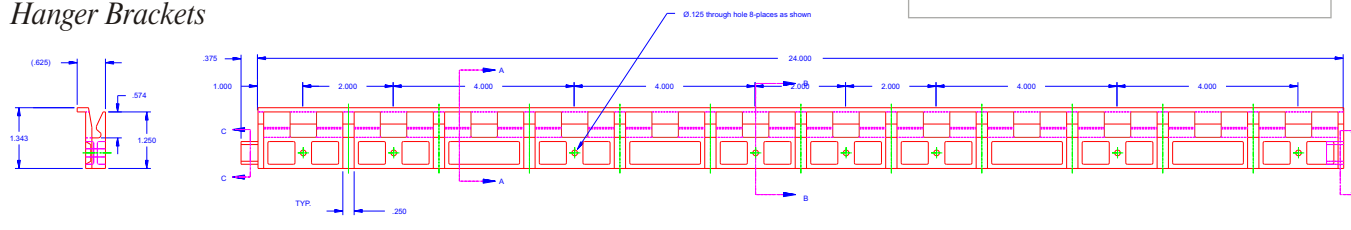
- Shepherd Fill Slat Hangers
- Shepherd Splash Fill Slats
- Shepherd Hanger Brackets
- Shepherd Retainer Clips



Hanger Grids



Hanger Brackets



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C. E. Shepherd Co. Cooling Tower Components



C. E. Shepherd Company

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Welded Wire Mesh

The Manufacturing Process

The Core Wire

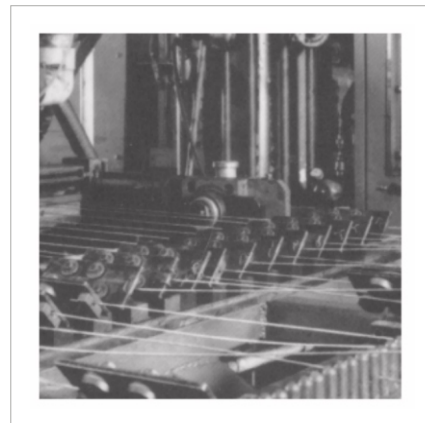
C. E. Shepherd Company fill slat hangers are manufactured from high quality precision welded wire mesh. The steel core wire meets or exceeds ASTM Standard A-90 for quality. Much of the wire mesh we sell has a fuse-bonded PVC coating for superior corrosion resistance. Standard PVC color is black. Mesh is also available clad in green, red or yellow; color availability may vary.

Galvanizing

We galvanize our wire BEFORE welding to assure the most uniform coating of zinc possible. This eliminates the potential for zinc to concentrate at the welds where it is least needed. Contrary to popular misconception, welded wire is not prone to corrode preferentially at the welds. In fact, resistance welding of galvanized wire creates a zinc rich iron alloy around the perimeter of the weld interface. This zinc iron alloy is much more corrosion resistant than the low carbon steel wire core and provides additional protection to the weld joint which is already naturally corrosion resistant (even without the cathodic protection of the zinc).

Corrosion and Cut Ends

In brief, cut ends of galvanized steel wire do not rust so long as they are protected by the zinc on the surface of the wire. The zinc on the periphery of the wire serves in a sacrificial manner to protect the steel face of the cut end. Offered as evidence of this are the Twenty Year Report (ASTM 585 A) and the Thirty Two Year Report (ASTM DS 65) both conducted at State College, PA. The data in these reports was gathered from observations of cut ends of four galvanized chain link fence locations. At the end of twenty years, all fences were found to be 100G (100% gray metallic). In other words, no rust was present. After thirty two years, three fences were found to be 100G and the fourth was 70Y (70% of the cut face had a yellow alloy layer of protection) and 30R (30% of the cut face had rusted).



Welding

Our computer controlled precision welding techniques ensure consistent quality. Welded mesh offers a number of advantages over conventional twisted mesh:

- Unlike twisted mesh, welded mesh does not move and flex inside its coating.
- Welded wire can be field cut without compromising structural integrity.
- Welded mesh does not unravel.
- In most applications, damaged sections of welded wire mesh can be cut out and replaced without compromising the integrity of the wire mesh.





C. E. Shepherd Company

TECHNICAL BULLETIN - Cooling Tower Fill Slat Hanger Specifications

SHEPHERD PERFORMANCE TESTED COOLING TOWER PVC COATED FILL SLAT HANGERS

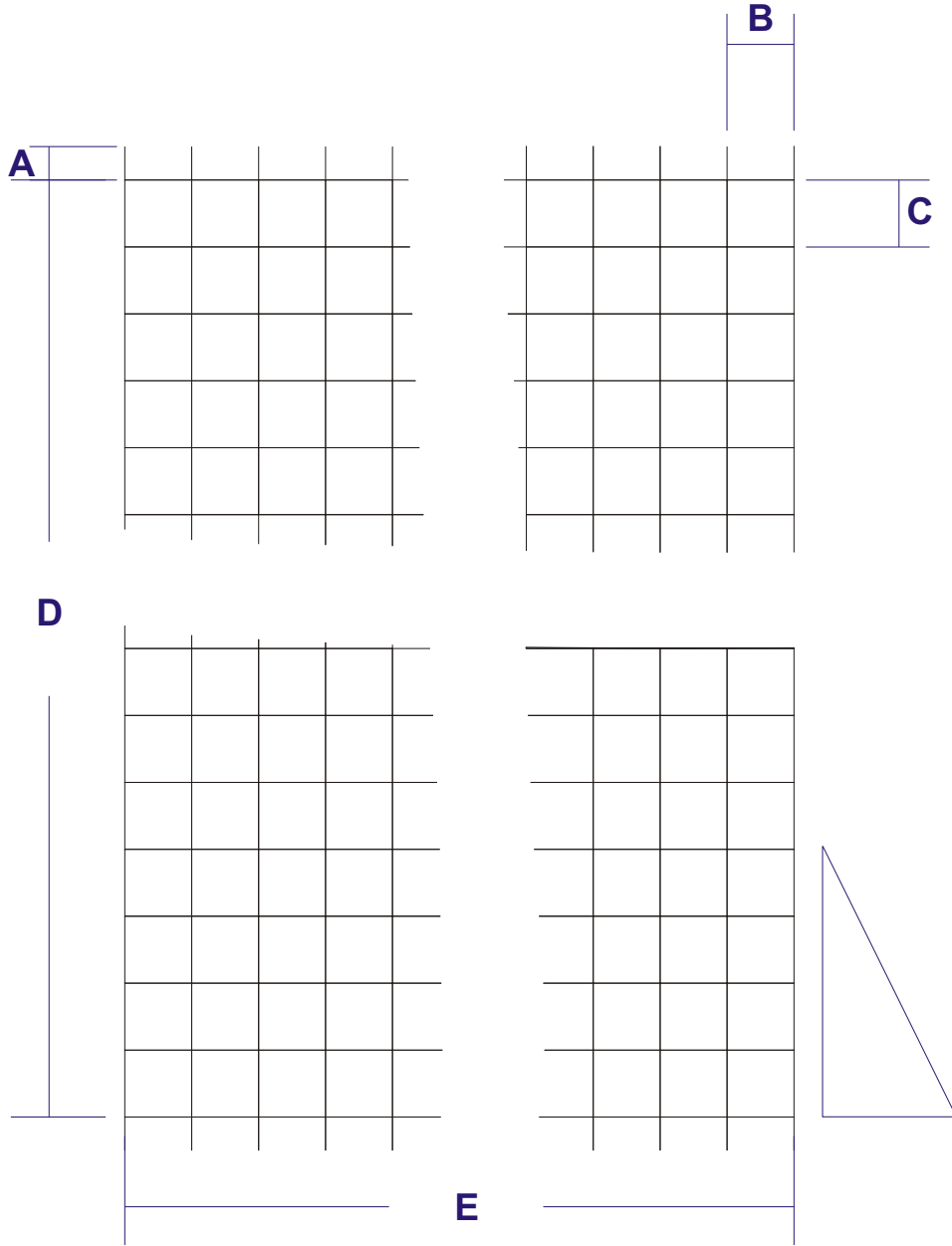
The wire hangers are manufactured from wire galvanized before welding, with a uniform diameter of not less than 14 gauge. Each hanger to be chemically cleaned and washed prior to coating with PVC. Coating will be factory applied by the fluidized bed process of fuse bonded PVC coating. A film thickness of ten (10) to twenty (20) mils is required. Minimum tensile strength of the galvanized steel fill slat hanger will be not less than 60,000 psi. Minimum tensile strength of the stainless steel slat fill hanger grid will be not less than 90,000 psi. Minimum elongation of the PVC coated will be not less than 200%.

Any cutting in the field will be a minimum of ¼" from any weld. Hanger coating surfaces are compatible with fill batt material to prevent wear to the fill batt. Hangers are shipped precut and flat in protective packing to prevent damage to the coating.



C. E. Shepherd Company

SHEPHERD COOLING TOWER HANGERS



Dimension A = pigtail

Dimension B = line wire (1st mesh dimension)

Dimension C = cross wire (2nd mesh dimension)

Dimension D = panel height

Dimension E = panel width

Mesh	Panel	Gauge
___ x ___	___ x ___	___

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