

Optigrid Polypropylene Grid Splash Fill



The design of Opti-Grid has evolved over many years, and is the result of hours of research and testing, searching for the optimum configuration of a counterflow splash fill.

Optimum performance in a splash fill is the result of maximizing the number of water droplets in any unit volume of water, and minimizing the size of those droplets in order to produce the highest surface area of water available to the passing air. It was found through the research that, rather than bouncing droplets off flat surfaces, as found in typical wood and plastic lath fills, more and smaller droplets were formed if the cascading water droplets were subject to repeated shearing action. It was found that narrow horizontal strips, in uniformly spaced tiers throughout the heat transfer area, provided the optimum efficiency.

Because of the small surface area exposed to the falling water, Opti-Grid is a truly non-fouling splash fill, and has been used extensively in utilities, refineries, sugar mills, steel mills and food processing plants where fill fouling had been extensive. Opti-Grid is easy to install and is manufactured to accommodate any standard column spacing.

Opti-Grid is manufactured from Polypropylene in standard 2' x 2' or 2' x 4' modules. The grids are supported in uniformly spaced tiers throughout the cell width and length, on stainless steel wires hung from supports installed under the water distribution system, and on polypropylene supports specifically designed to secure the grid to the wires. Each grid in each tier is secured to all adjacent grids by special clips that tie the entire fill assembly securely in place.

Polypropylene is resistant to attack from acids, alkalis, hydrocarbons and biological and chemical attack. Opti-Grid contains UV inhibitors and can withstand continuous operating temperatures up to 175° F.

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