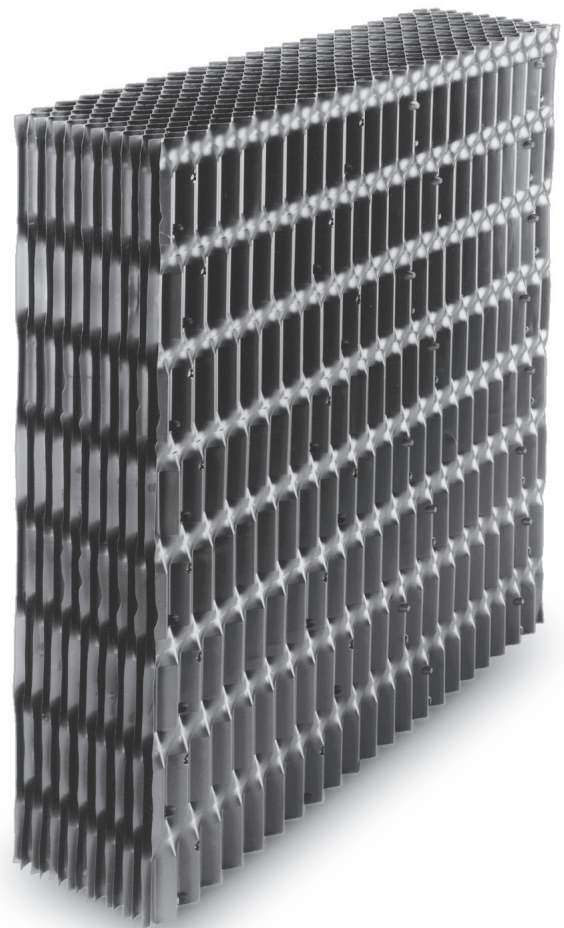


Marley MCR is a film fill system designed to significantly reduce the risk of biological fouling while minimizing the loss of high-performance heat transfer.

Open, offset vertical corrugations allow debris and biological growth foulant to pass, while providing maximum surface area and turbulence to develop evaporative heat transfer. Smooth surfaces without sharp intersections maintain water velocities and reduce the number of restrictions where biological growth begins.

MCR fill is thermoformed from .015" thick, chemically-resistant PVC (polyvinyl chloride). Material thicknesses of .020" and thicker are also available. Flame spread rating is less than 25 per ASTM E-84 and is considered self-extinguishing.

MCR is easily adapted to your tower's configuration. The fill pack depth (fill height) is variable to provide the proper heat transfer area within a single fill layer. Multiple layers of "logs" increase the opportunity for fill clogging. MCR counterflow fill can be hung from structural members or it can be bottom-supported in virtually all counterflow cooling towers, regardless of a cooling tower's age or manufacturer.



## SUGGESTED SPECIFICATION

The fill will be used in counterflow cooling towers.

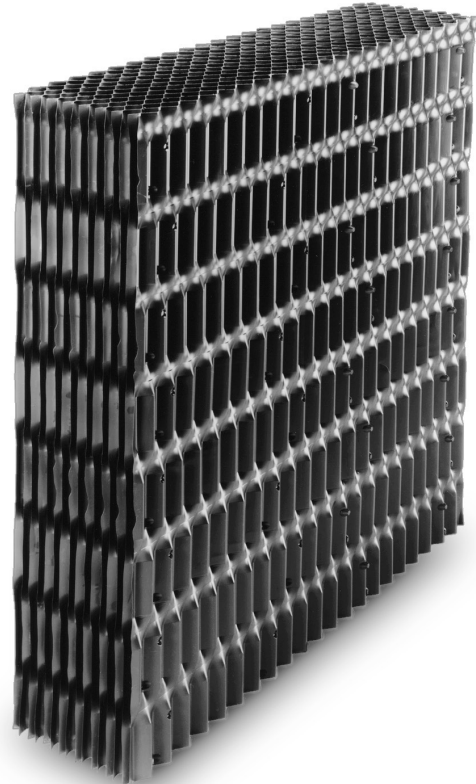
### Construction and Materials

The fill must be film type, constructed of multiple sheets of thermoformed PVC. Each sheet must contain a pattern of vertical offset tubular corrugations to develop the necessary heat transfer capabilities as well as the ability to channel debris and/or biological growth foulant through the fill pack. The fill surface must be smooth without bumps, projections, or intersections which may promote biological growth.

Fill may be bottom-supported or suspended from structural members. Bottom-supported fill must be assembled into packs by bonding adjacent sheets. Suspended fill packs must be supported on 2" diameter stainless steel tubes which pass through reinforced holes formed in the upper part of the fill sheets. The fill support tubes must be hung by loops of stainless steel rods from the structure. The vendor will determine the appropriate support means.

### Fill Depth (air travel)

The fill depth will be chosen to provide the proper thermal performance. The total fill depth will be provided within a single layer of fill.



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