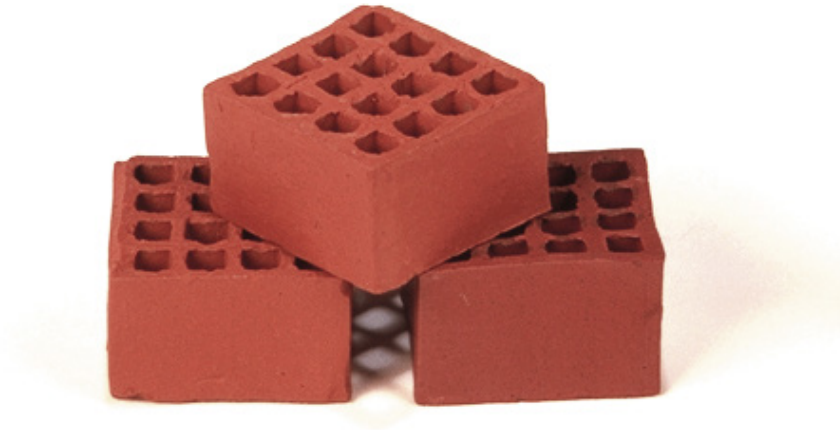


Permagrid ceramic tile fill is the most durable fill in the industry with a guaranteed minimum of 25 years of service. Molded from domestic clay to strict specifications, the clay is heat fired to create a fill that is immune to traditional fill deterioration problems. Because this revolutionary tile fill is not

affected by ultraviolet exposure and fungal attack, cooling towers with Permagrid tile fill are perfectly suited for harsh operating environments involving temperature extremes. This tile fill exhibits low water absorption such that it will withstand extreme freeze-thaw environments common in cold weather climates or free-cooling applications.

Characterized by large openings, Permagrid tile is an excellent performer in the high-solid contents environment of dirty water applications. Permagrid is set without mortar, adhesive or mechanical connections so no regular maintenance is necessary. The installed system is placed in a pattern designed to provide optimal thermal performance.



Suggested Specification

The fill will be used in counterflow cooling tower.

Construction and Materials

Tile Fill - The tile fill shall be of multi-cell design set without mortar in a pattern designed to have optimal thermal performance. The tile fill shall be hard burned clay with low water absorption such that it will pass a freeze-thaw test conducted in accordance with ASTM C-67. Further, the tile fill shall have a minimum crushing strength of 2000 psi over the gross area of the tile when the load is applied parallel to the cell(s) as tested in accordance with ASTM C-67.

Lintels - The tile support lintels shall be fabricated from pultruded fiberglass reinforced polyester resin or stainless steel and shall be capable of withstanding a load of 400 lb per linear foot based on a 6 foot span. The FRP lintels shall be supplied and installed in one continuous length (wall to wall up to 30 feet) to prevent fill support failure, with associated tile fill spillage into the tower basin, caused by spalling or flaking on the edge of concrete fill support beams. Cast iron or other ferrous materials shall not be used for fill support lintels.

SPX COOLING TECHNOLOGIES, INC.

7401 WEST 129 STREET
OVERLAND PARK, KS 66213 USA
913 664 7400 | spxcooling@spx.com
spxcooling.com

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