

Tiling the future.....

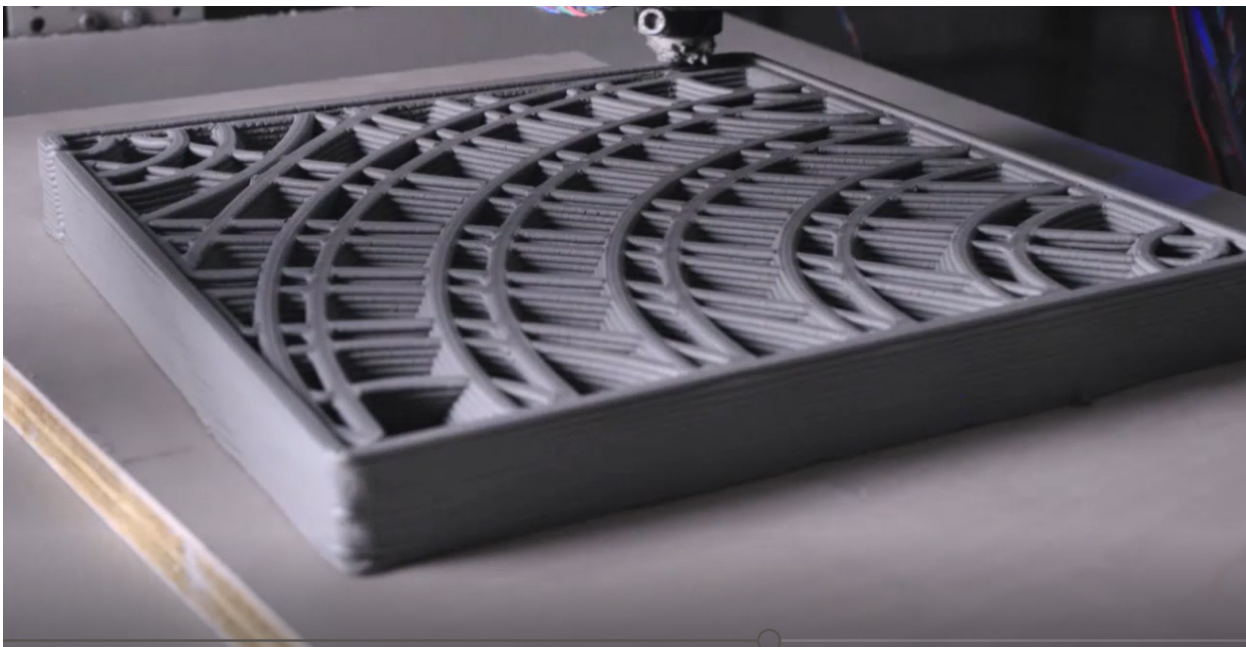
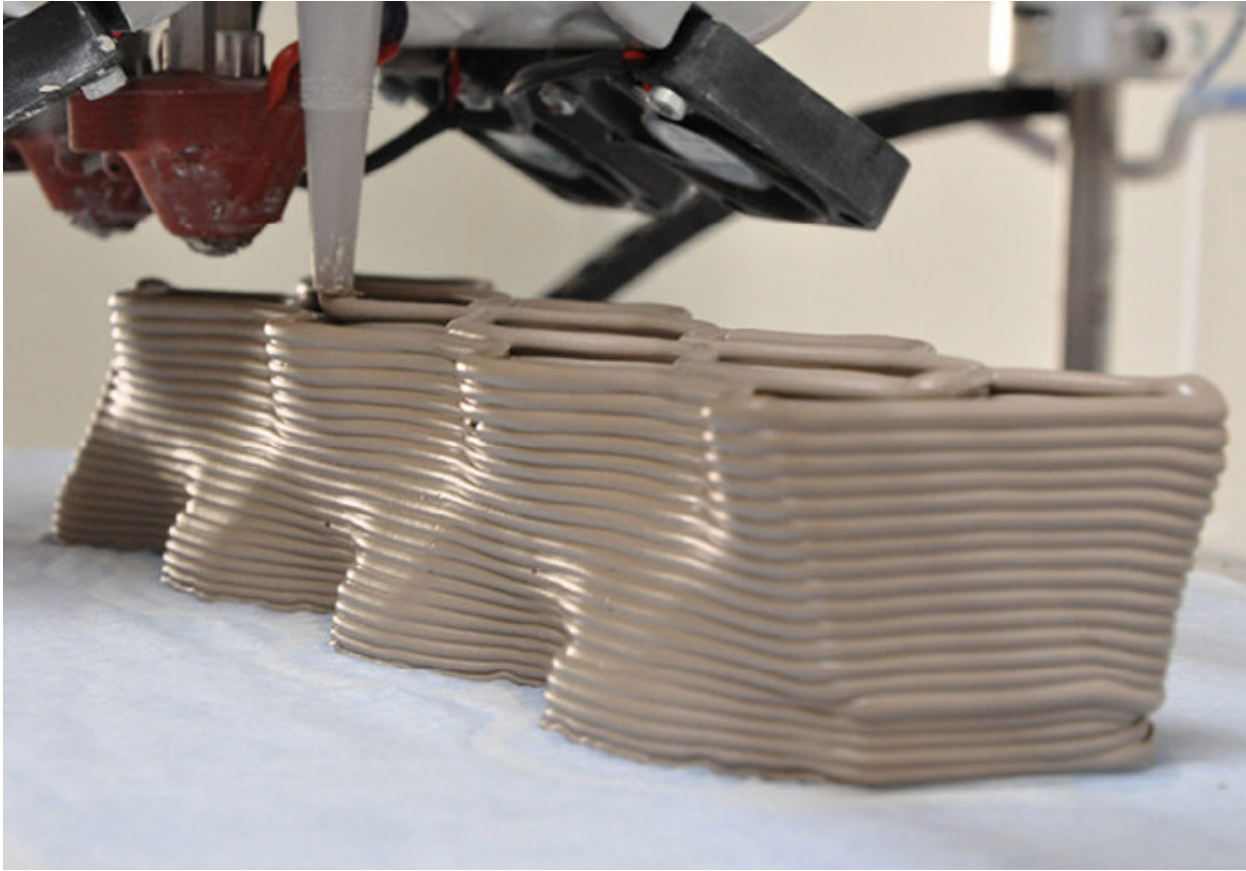
Artisan Tile and Marble of New Jersey (www.artisannj.com) recently completed the ceramic tile work for general contractor Torcon, Inc. at the New Jersey Economic Development Authority (NJEDA) in their new Taxation Building in Trenton, NJ. Part of the installation included custom tile artwork in the south lobby consisting of 200 unique 12" x 12" x 2" tiles made with custom-built ceramic 3D printers.

The tiles were designed and manufactured by Brian Peters at his studio in Pittsburgh, Pennsylvania (www.brian-peters.com) and are the very first of its kind installed in the US. Mr. Peters is an architect, spatial artist, educator, and an award-winning fabricator. He specializes in producing 3D printed ceramic blocks and tiles for custom architectural applications.

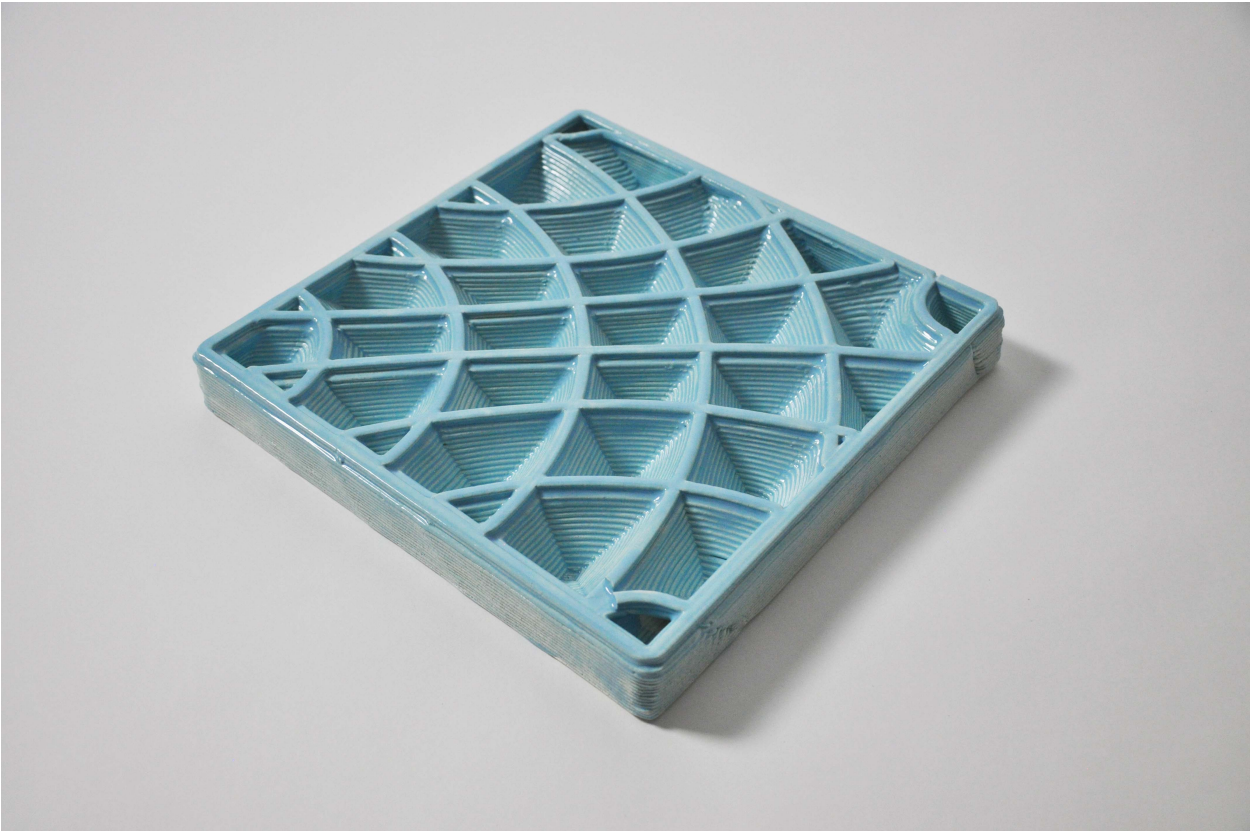
The process is a very unique one; Brian designs each tile digitally from two dimensional sketches and drawings into digitally modeled 3D geometrics that will be materialized in space and then sends the fabrication files to custom 3D printers he has built himself. Using an earthenware clay mixture for this project, each tile is printed in a continuous coil, layer by layer, until the preselected tile design is complete, typically taking between one to two hours. After smoothing and refining any rough edges by hand, the raw tiles are then dried, fired in a 2,000 degree (F) kiln for 12 hours, glazed again by hand and fired a second time, resulting in a perfectly made 3D tile.

Nancy Czarkowski of Artisan Tile & Marble Co of NJ, Inc. worked closely with Brian Peters to coordinate the final installation of the 18 foot by 8 foot custom tile work project. The individual tiles were installed over a backer board using Laticrete's Multimax Light thinset and grouted with their Permacolor grout. Nancy is quoted as saying, "with the advent of 3D printed tiles, we may have to redefine the age old definition of ceramic tile". Chris Proniewski, a union tile mechanic working for Artisan Tile and Marble of New Jersey, Inc. from Local 7 TMT NY/NJ stated after completing the tile installation, "it was an honor...Tiling the future."

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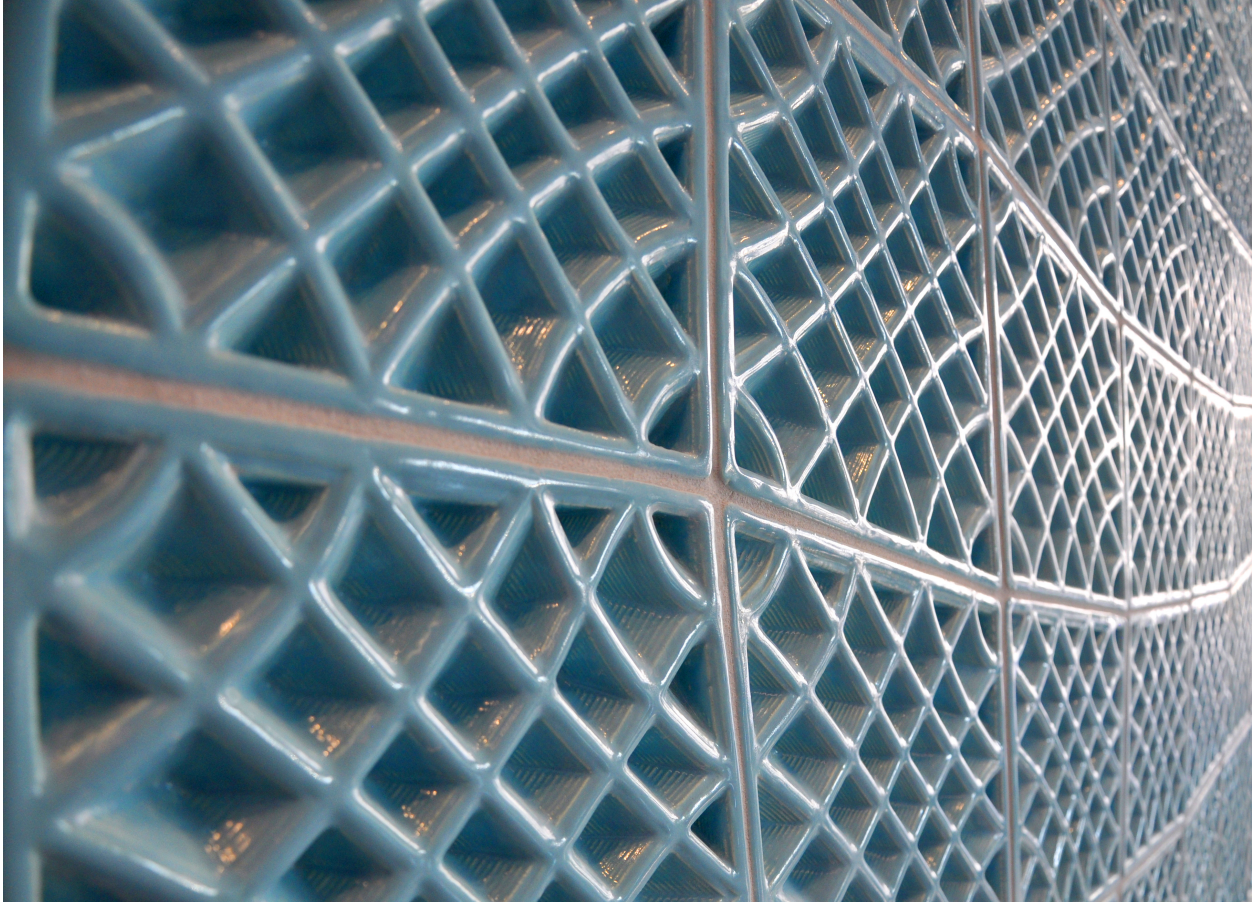
Brian Peters finished and glazed 3D printed tile



Installing (direct set) by Artisan Tile & Marble Co of NJ, Inc



ARTWORK Installation close-up view



Completed ART WORK Installation at NJEDA Taxation Building in Trenton, NJ.

