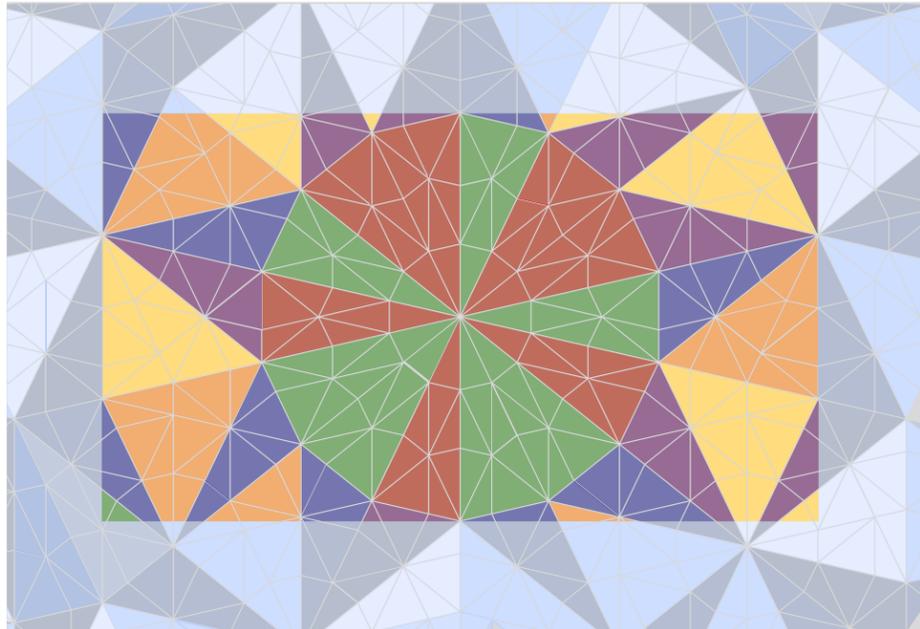


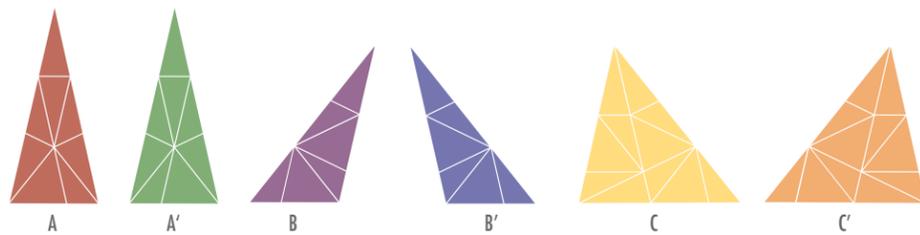
PROCESS & TOOL KIT

The Aperiodix system is designed to be easy to use for designers, architects and tile setters in the field. The architect begins by using a digital "tool kit" which starts with an infinitely large field of our pattern. After inputting the size of the wall to be tiled, a proportionally sized rectangle can be floated over the pattern field until a suitable section is found. The computer application will then print out the quantity of

each of the six tiles that will be needed to tile the selected area. A simplified, color coded print out of the selected pattern will also be created to show the tile setter exactly where to start and which tiles to use. When the tiles are laid, the undulating topography will naturally flow from one tile to the next and will appear as though there were many more tiles set than there actually were.



Color-coded diagrams are generated, helping the tile setter match the specific tile and orientation to a location within the overall system.



A project by
Eric Weil,
Situ Studio,
Ben Sandell and
Geoff Sosebee
for Oso Industries.

All photography: John Muggenborg
johnmuggenborg.com

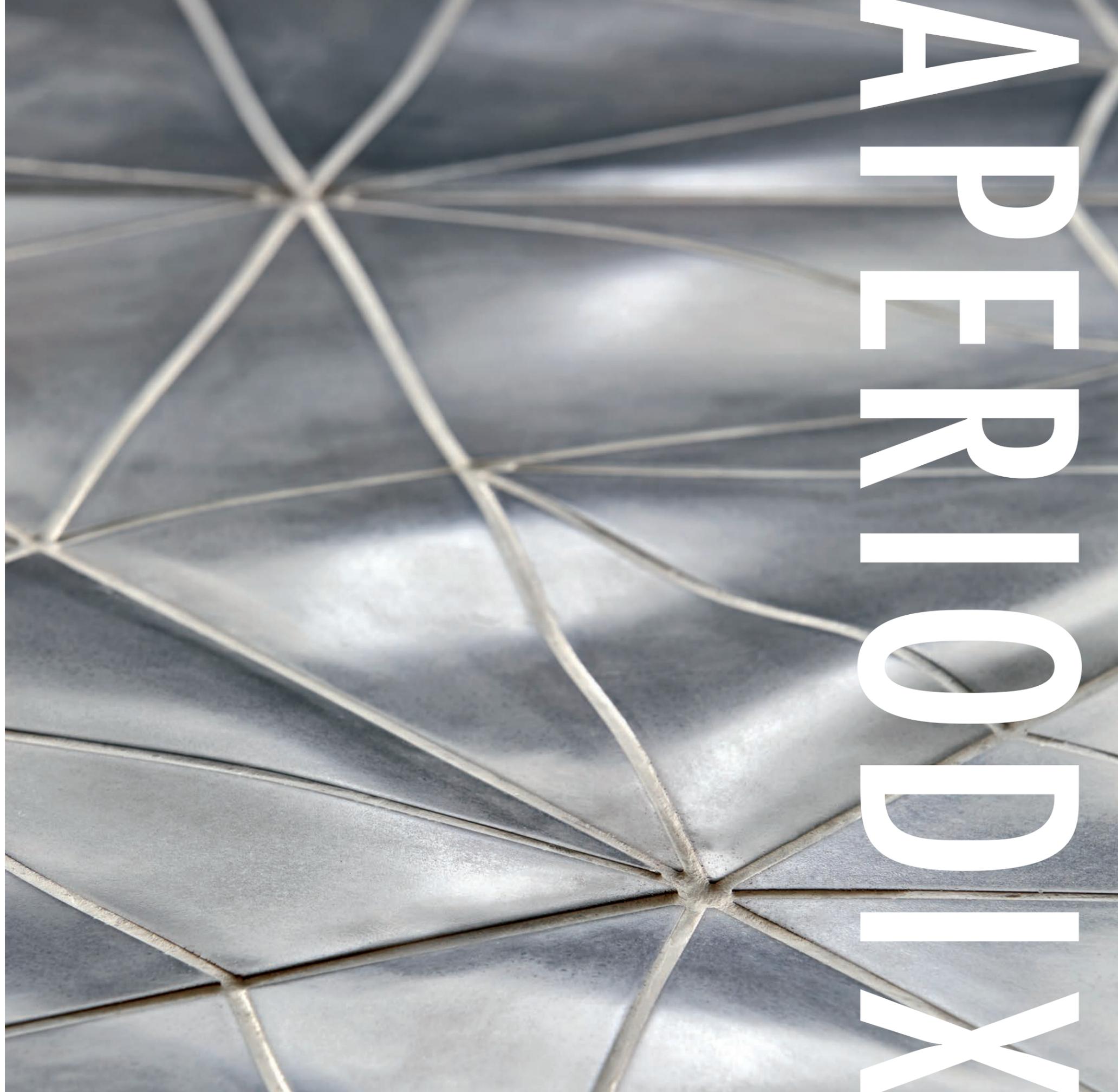
Brochure design: Dimitry Tetin
dimitrytetin.com



I N D U S T R I E S

647 MYRTLE AVENUE • BROOKLYN, NY 11205
347.365.0389 • WWW.OSOINDUSTRIES.COM

APERIODIX



APERIODIX

CONCRETE WALL TILING SYSTEM

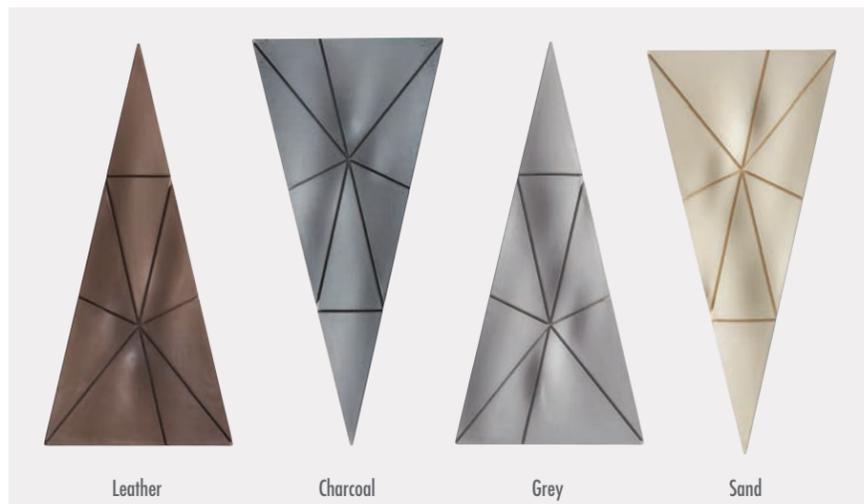
Aperiodix is a tiling system, based on a set of three triangles that can be laid out in an aperiodic, or non-repeating, pattern which results in interesting and unique pattern fields. The Aperiodix system uses these three triangles and their mirrored shapes for a total of six unique tiles. The face of each triangular tile has an undulating surface that will always line up with the neighboring tile, no matter which pattern is followed. The tiles are inscribed with $\frac{1}{8}$ " wide grooves across the surface that create a smaller field of the same three triangles. The tiles are cast in integrally colored concrete and are available in four colors.



Aperiodix concrete tile system shown in "Sand" color

COLORS

Four standard colors are available in any quantity. Custom colors are available.

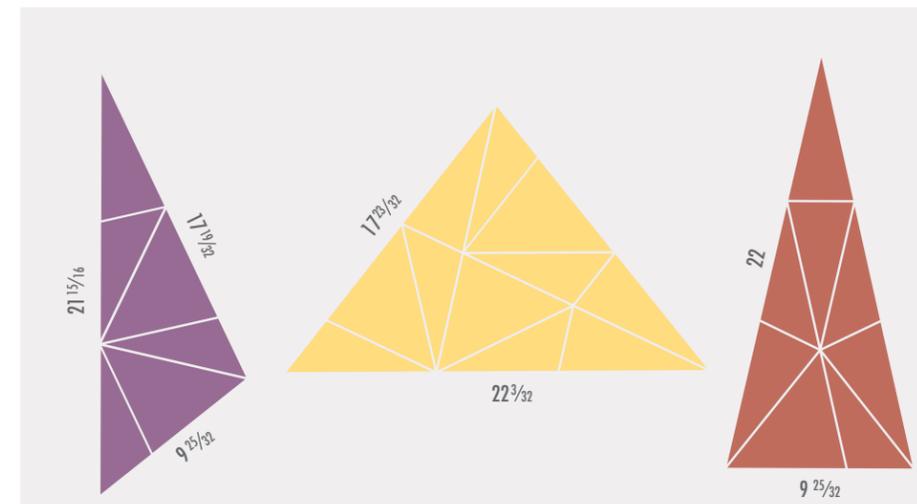


INSPIRATION

The Aperiodix system grew out of research into different tiling patterns used in Islamic architecture and the use of overlaying intersecting patterns to create unique tilings. The Girih system, used in many Islamic mosques, applies strapping lines, or a secondary geometry, over top of the basic shape set. This creates a way to tile a very complex pattern without creating too many individual tiles. Another point of inspiration from Islamic tiling was the use of pattern scrolls. These scrolls would have very large fields of the five Girih interlocking shapes, and tile setters could select a portion of the pattern that would fit the space to be tiled. The tiles would be laid onto the scroll to establish the pattern, so that the tile setter didn't necessarily need to understand the geometry or the mathematics involved in laying out these complex patterns.

DIMENSIONS

Tiles cover .65 sq. ft. per tile (on average) including the trimmed tiles on the perimeter of the pattern.



CREATION OF PATTERN

Using the concept of interlocking geometric tiles with an inscribed secondary pattern, the Aperiodix system adds a third pattern layer with the surface topography. The interior set of triangles inscribed onto the face of the tiles does not relate directly to the undulating surfaces, which creates a complex interaction between the surface and the geometric pattern of triangles.

DETAILS

- Single orders may include combinations of colors.
- Each tile weighs 5.5 lbs on average.
- Tiles are cast in fiberglass-reinforced, integrally colored concrete.