







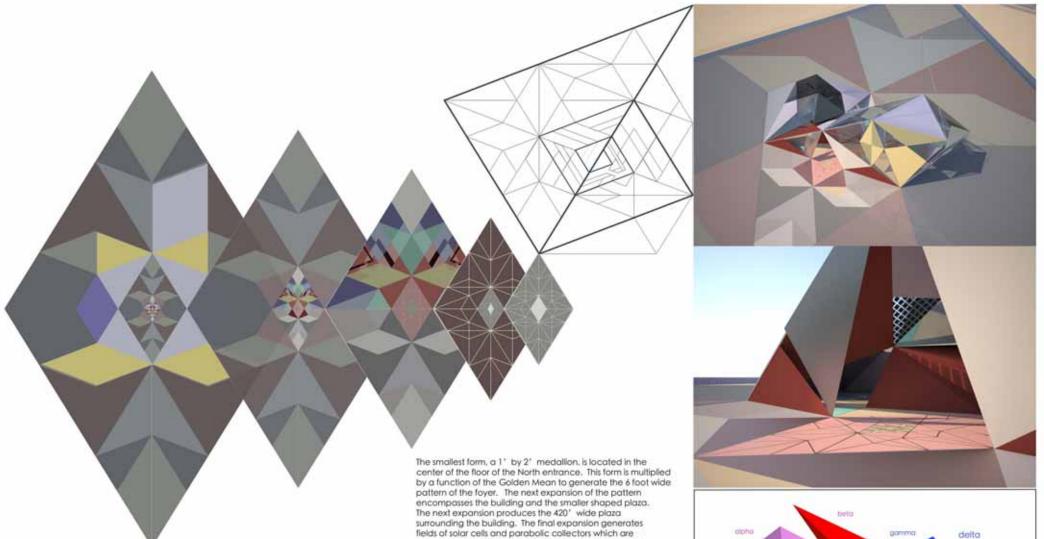


The central structure is the hub of the pattern. This building is an open-air pavilion. The building is 100 feet tall, including the rod shaped tower. It is based on a tiling pattern of mathematical, three-dimensional blocks, which expand and contract in generations of scale.

The main entrance on the north side contains a medallion of the pattern which expands to organize the entire site.

To the left is a dome containing a three dimensional form of translucent, frosted colored glass

To the right is a large open-air structure which contains another dome, also integrated into the overall pattern. Against the North wall, will be a glass elevator which rises 50 feet through the shapes of the dome to the observation deck. There will also be a staircase following the lines of the building up the North wall, disappearing behind, and passing through the dome until it emerges on the outside and continues to the observation deck above.



several hundred feet across. This could go on indefinitely.

The extraordinary two-dimensional, mathematical/architectural tiling patterns of the Middle-East are based on a small set of shapes and subdivisions which can fill the void with repetitions and permutations. Three-dimensional tilings behave similarly. This work is based on a system of 4, four-sided triangular blocks, or tetrahedra,

These tetrahedra have interesting and complex properties, which can be combined in patterns that fill three-dimensional space without voids, just as flat tilings fill a plane. These patterns are aperiodic. Unlike bricks, they cannot be assembled in a single, regular pattern that repeats, instead, they radiate out in varying angles and combinations.

All of the structure and forms in the building and solar gardens are composed of different scale generations of these four forms.

