

High Performance Buildings:



Imaginon – Charlotte, NC

http://www.imaginon.org/about_imaginon/default.asp#green

Architecture Fact Sheet:

<http://www.imaginon.org/pdfs/archFacts01.pdf>

Sustainable Features:

- 1) **Curtainwall (2" thick horizontal and vertical mullion system tilted at a constant 2 degree angle with metal louvers and sun-shades)(S)**
Manufacturer: Vistawall
Installer: Conmat, Inc.
- 2) **Glazing (1" thick insulating with custom parallelogram frit pattern)** Manufacturer: AFGD, Inc.
- 3) The sloping concrete roof ensures that no one ceiling height is ever the same and enforces the notion that each individual experience within the space is unique.
- 4) The columns are different heights- every column is different. This creates an interesting play of scale and proportion.
- 5) From a distance, the glazed tile boxes appear to be massive solid colors. Up close the individual tiles and their textures are revealed.
- 6) The *Glazed Tiles* were made with +/- 35% post-consumer and post-industrial recycled waste - a formula that Tom Sawyer with Quarry Tile created specifically for ImaginOn.
www.quarrytile.com/ecotile.htm
- 7) The *Stone* of the helix represents the architect's innovative use of a remnant material. The Split-Face Ashlar is the by-product of monument slabs when the polished slabs are cut to size.
- 8) The *Concrete* was specified to have a high content of fly ash. Fly ash is a fine, glass-like powder recovered from gases created by coal-fired electric power generation. U.S. power plants produce millions of tons of fly ash annually, which is usually dumped in landfills. Fly ash is an inexpensive replacement for portland cement used in concrete and it actually improves strength, segregation, and ease of pumping of the concrete.
- 9) The *Ramp Flooring* was fabricated by Eco Surface with recycled SBR rubber tires and colorful EPDM flecks. It is 100% recyclable and has a low VOC content.
www.gerbertltd.com/redirect/rubber_flooring.htm
- 10) The *Clerestory "Skylights"*, the *Sun-Shading Devices* on the curtainwall and the interior *Color Palette* were designed in conjunction with each other to enhance the *Daylighting* potential of the interior. *Daylighting* is an integrated approach to sustainable design that uses natural light while also reducing the need for artificial lighting and reducing solar heat gain and glare. The architects worked with the Daylighting Lab at the College of Architecture at UNC Charlotte.
www.coa.uncc.edu/daylighting