

IMAGINON, THE JOE & JOAN MARTIN CENTER
CHARLOTTE, NC

Architecture Fact Form

The architects selected materials that challenge, inspire and excite young minds. Just as each program is defined by a unique form, each form is further defined by a unique material, texture, color and pattern.

(S) indicates a sustainable product counting toward ImaginOn's LEED accreditation.

Parallelogram

Exterior Materials:

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.

Glazing (1" thick insulating with custom parallelogram frit pattern)

Manufacturer: AFGD, Inc.

Interior Materials:

Wool carpet (S) (custom-design inspired by the ImaginOn logo)

Manufacturer: Bloomsburg Carpet Industries, Inc.

Installer: Bonitz

Linoleum flooring (S)

Manufacturer: Forbo

Installer: Bonitz

Millwork (S) (custom-designed textured fascia @ circ. desk and box office)

Supplier: WOODSTALK Gold MR Fiberboard by Dow BioProducts

Installer: Watson Woodworks

Ceiling "clouds" (painted metal lath suspended in standard t-grid)

Installer: Precision Walls, Inc.

Primary Structural System:

Concrete (S) (post-tensioned concrete system)

S-curve

Interior Materials:

Rubber Flooring (S) (custom-designed color)

Manufacturer: Eco Surface

Installer: Bonitz

Pentagon

Exterior Material:

Metal Roof Shingles

Manufacturer: Berridge Manufacturing Company

Installer: Cyclone Roofing

Wiggle Wall

Surface Material:

Paint (S)

Supplier: Benjamin Moore

Subcontractor: Coatings, 2000

Helix

Exterior Materials:

Stone (S)

Supplier: Dakota Granite Company

Installer: Pyramid Masonry Contractors, Inc.

Lighting

Manufacturer: Consolidated Architectural Lighting
Installer: W.B. Moore Company of Charlotte

Interior Materials:

Fabric-Wrapped Panel System

Manufacturer: Designtex (fabric); Novawall (panel system)
Installer: Warco Construction, Inc.

Curtain (custom-designed fabric)

Manufacturer: Yoma Textiles
Installer: Commonwealth Blinds and Shades

Ellipse

Exterior Material:

Textured Standing Seam Aluminum

Manufacturer: Merchant and Evans Inc.
Installer: Cyclone Roofing Company

Interior Materials:

Fabric Wrapped Panel System (3 custom-colored fabrics)

Manufacturer: "Bubble" by DesignTex (fabric); Novawall (panel system)
Installer: Warco Construction, Inc.

Seating (with custom-designed armrest and custom stain)

Seating Manufacturer: Irwin Seating Company
Seating Fabric: "Brushstroke" by DesignTex

Carpet

Manufacturer: Bentley Prince Street
Installer: Bonitz

Rectangle

Exterior Material:

Cast-in Place Concrete

Lighting

Manufacturer: Alumilite Corporation
Installer: W.B. Moore Company of Charlotte

Interior Materials:

Fabric-Wrapped Panel System

Manufacturer: "Singing in the Rain" by DesignTex (fabric); Novawall (panel system)
Installer: Warco Construction, Inc.

Panel System Hardboard (S)

Manufacturer: Pyroblock by Panel Source International

Seating (with custom-designed armrest and custom stain)

Manufacturer: Irwin Seating Company
Seating Fabric (S): Cactus Flower by Sina Pearson Textiles

Carpet

Manufacturer: Prince Street
Installer: Bonitz

Boxes

Exterior Material:

Glazed Tile (S) (custom-designed linear and "squiggle" tiles; 3 colors)

Manufacturer: Quarry Tile
Supplier: Daltile
Installer: Kasa Construction

Windows

Manufacturer: Vistawall

Glazing: AFGD, Inc.

Installer: Conmat, Inc.

Lighting

Manufacturer: Alumilite, Inc.

Installer: W.B. Moore Company of Charlotte

Rhombus

Exterior Material:

Textured Standing Seam Aluminum

Manufacturer: Merchant and Evans Inc.

Installer: Cyclone Roofing Company

Clerestory

Manufacturer: Vistawall

Glazing: AFGD, Inc.

Installer: Conmat, Inc.

The variation of architectural scale reinforces the notion that a new story can unfold with each extraordinary architectural experience.

1. 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.
2. The columns are different heights- every column is different. This creates an interesting play of scale and proportion.
3. From a distance, the glazed tile boxes appear to be massive solid colors. Up close the individual tiles and their textures are revealed.
4. The 10'-0" ceiling of the dance classroom (in a glazed tile box) adjacent to the 20'-0" ceiling of the art classroom (under the concrete roof) creates an exaggerated spatial contrast; an awareness of scale and proportion is inherent to the experience.

ImaginOn will be the first USGBC LEED-certified public building in Charlotte. The architects selected materials for their "green" qualities- each with a story of their own.

- (S) 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
- (S) 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.
- (S) 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.
- (S) 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.gerberltd.com/redirect/rubber_flooring.htm

- (S) The *Wool Carpet* and the *Linoleum Flooring* were selected because they are rapidly renewable resources.
- (S) The *Paint* is Benjamin Moore's EcoSpec- a low odor, low VOC acrylic paint.
- (S) The *Toilet Partitions* are manufactured by Yemm & Hart. The colored "streaks" are made from post-consumer detergent bottles.
www.yemmhart.com/materials/origins/introduction.htm
- (S) The *Millwork* was created with WOODSTALK Gold MR Fiberboard by Dow BioProducts and is coated with a low VOC water-based stain. This product is made from a rapidly renewable resource - wheat straw fiber- with a non-formaldehyde binder.
www.dow.com/bioprod/story.htm
- (S) 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 UNCCCharlotte. www.coa.uncc.edu/daylighting