**Location Research**

Address:

**Average yearly rainfall:**

##.##in/yr = ##.####gal/sf \* #####sf of roof or site = **#,###,###gal/yr**

Source: http://www.harriscountyfws.org/

Source: http://www.virtualsecrets.com/annual-rainfall-water-calculator.html

**Average Temperature:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Anu |
| Average Temperature | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### |
| Heating Degree Days | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### |
| Cooling Degree Days | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### | ### |

Source: http://www.climate-zone.com/climate/united-states/texas/houston/

**Sun Location:**

Solar Elevation:

June ##.##® (from horizontal)

December ##.##® (from horizontal)

Solar Azimuth:

June 21: ###® – ###® (clockwise from north = 0®)

December 21: ###® – ###® (clockwise from north = 0®)

Source: http://www.esrl.noaa.gov/gmd/grad/solcalc/azel.html

Source: http://www.gaisma.com/en/sunpath/houston-texas.png

Source: http://www.suncalc.net

**Locally Sourced Building Materials:**

Ceiling Tiles: USG - Aspen, Halcyon ClimaPlus, Rockface ClimaPlus, Touchstone ClimaPlus, Olympia ClimaPlus, Pebbled ClimaPlus

 Armstrong - Ultima, Cirrus

Gypsum Board: Gold Bond by National Gypsum, ProRoc by Certainteed, Sheetrock by USG

Studs: Steel framing by ClarkDietrich Building Systems, Steel framing by Marino/Ware

Stone: Granite - Texas Pearl, Texas Red, Texas Pink, Sunset Beige, Sunset Red, Mountain Red, Indian Sunset, Radiant Red Limestone - Texas Crème, Classic Gray/Leuders, Patina Classic, Texas Shellstone, Blue Mist, Heritage, Cezanne

Woods: Pecan, Gum, Cypress, Mesquite

Source: Colley Hodges of Kirksey | Architecture

**Native Vegetation:**

Trees:

Shrubs:

Flowers:

Grasses:

Source: http://buchanansplants.com/2011/05/going-native-our-top-10-native-plants-for-houston/

Source: http://texastreeplanting.tamu.edu/

**LEED Strategies:** (I have listed the credits that will affect the look of your building/site)

Source: LEED 2009 for New Construction and Major Renovations

Location and Transportation

* C6 - Provide bike storage and provide shower facilities for at least 5% of all regular building occupants
* C7 - Reduce existing imperviousness by 20% so that less rain runs off the site, provide preferred parking

Sustainable Sites

* C2 - Protect and restore 40% of developed area to native habitat
* C3 - Provide vegetative open space equal to 25% of sites area
* C4 - manage on site the runoff from the developed site for the 98th percentile of local rainfall events
* C5 - Use shading or non-reflecting materials for paved areas & use vegetative or non-reflecting roofing

Water Efficiency

* C3 - use a cooling tower to cool your building and monitor the tower for health and efficiency

Energy and Atmosphere

* C5 - Use solar, wind, hydro, geothermal, biomass, bio-gas, etc to produce up to 10% of your energy

Materials and Resources

* P1 - Must have a place to store and collect recyclables
* C1 - Maintain 50% of existing building(s)

Indoor Environment Quality

* P1 - Prohibit smoking in building or have a well-ventilated smoking room
* C4 - Provide ventilated entry area to reduce outdoor pollutants, design indivdual exhaust for rooms
* C7 - Daylight 75% of Spaces
* C8 - Views for 90% of Spaces

Innovation & Design Process

Regional Priority Credits