THESPINNAKERGROUP

LEED-NC Version 2.2 Registered Project Checklist LEED-Gold

LEED-NC

Yes | Likely | Not Likely | No

FIU SIPA **11/16/2011**

Yes	Likely	Not Likely	No			Sustainable Sites	Requirements	Responsibility	Action
10			4						
Y				C	Prereq 1	**Construction Activity Pollution Prevention**	Develop and follow an erosion and sediment control plan consistent with NPDES and SFWMD	Civil Engineer to upload C-12 drawing to LEED online and complete online template regarding NPDES compliance.Contractor to implement plan over construction period.	**Earned**
1				D	Credit 1	**Site Selection**	Choose site that is already developed, not framland, near water or wetlands or parklands	Spinnaker to document online.	**Earned**
1				D	Credit 2	**Development Density & Community Connectivity**	Construct on a previously developed site within 1/2 mile of 10 basic services and 1/2 mile of residential neighborhood w/ average 10 units per acre net. (distances are as a person would walk)	Architect to calculate density radius and verify using overhead map and then submit LEED Online template. Use Option 1 described in the requirements block.	**Earned**
			1	D	Credit 3	**Brownfield Redevelopment**	Build on a site documented as contaminated by a Phase II Environmental Site Assessment or designated by state, local or federal agency.	Determine Extent of Phase I Environmental Assesment	N/A
			1	D	Credit 4.1	**Alternative Transportation**, Public Transportation Access	Select site within 1/2 mile of a light rail or subway OR witin 1/4 mile of a bus stop used by 2 or more bus lines	Architectonica to upload maps (w/distances), route descriptions and complete online template	**N/A**
			1	D	Credit 4.2	**Alternative Transportation**, Bicycle Storage & Changing Rooms	Provide secure bicycle racks for 5% of the population & shower/changing facilities for 0.5 % of Full time employees	N/A	N/A
1				D	Credit 4.3	**Alternative Transportation**, Low-Emitting and Fuel-Efficient Vehicles	Provide preferred parking for low-emitting and fuel efficient vehicles for **5% of the total vehicle parking capacity** of the site.	**Architect** to indicate the appropriate # of spaces on site plan and submit LEED Online Template. Spaces must be "priority" close as practical w/out violating ADA	**Earned**
1				D	Credit 4.4	**Alternative Transportation**, Parking Capacity	Provide no new parking.	Architect to demonstrate that no new parking has been provided.	**Earned**
1				D	Credit 5.1	**Site Development,** Protect of Restore Habitat	Projects earning SS Credit 2 and using vegetated roof surfaces may apply the vegetated roof surface to this calculation (if the plants meet the definition of native/adapted), in which case the requirement is 20% of the total site area (including building footprint).	**Landscape Archtiect** to provide Drawings and calaculations to document online.	**Earned**
1				C	Credit 5.2	**Site Development,** Maximize Open Space	Provide vegetated, open space equal to building footprint.	Landscape Archtiect to provide Drawings and calaculations to document online.	**Earned**
1				D	Credit 6.1	**Stormwater Design,** Quantity Control	On previously developed sites, decrease the volume of stormwater runoff by 25% from the 2-year, 24-hour storm	Civil Engineer to verify full onsite retention and then submit LEED Online template.	**Earned**
1				D	Credit 6.2	**Stormwater Design,** Quality Control	Remove 80% of stormwater suspended solids from 90% of runoff	Civil Engineer to verify full onsite retention and then submit LEED Online template.	**Earned**
1				C	Credit 7.1	**Heat Island Effect,** Non-Roof	Use high reflectance paving materials, an open grid or grass pave type paving system and/or provide shade for 50% of the site's hardscape	Consider open grid, pervious and/or grass paving and shading or using concrete.	**Earned**
1				D	Credit 7.2	**Heat Island Effect,** Roof	Specify a high reflectance roofing material with an SRI value > 78 for flat roofs or green roof	Hydro Tech Green Roof to be specified Architect to specify, and document online template.	**Earned**
			1	D	Credit 8	**Light Pollution Reduction**	Minimize light trespass to neighboring sites and the night sky. Minimize exterior light levels below ASHRAE recommendations. Design fixtures so that "maximum Candela" does not shine out of windows, but rather intersects opaque surfaces	MEP to verify. Need photometrics and external lighting power density calcs.MEP to submit to LEED Online. (Lighting Zone 2)	N/A

Yes	Likely	Not Likely	No			Water Efficiency	Requirements	Responsibility	Action
4			1						
1				D	Credit 1.1	**Water Efficient Landscaping**, Reduce by 50%	Reduce potable water use for landscaping by using efficient irrigation techniques, drought resistant plants and/or captured rainwater	Landscape Architect to document online. Baseline and design case water use calcs, a narrative and landscaoe drawings will be requied for online submittal.	**Earned**
1				D	Credit 1.2	**Water Efficient Landscaping**, No Potable Use or No Irrigation	Use no potable water for landscaping by using recaptured rainwater or plants that do not require irrigation or use reclaimed water where available	See Above	**Earned**
			1	D	Credit 2	**Innovative Wastewater Technologies**	Reduce potable water use for sewage conveyance by 50% through the use of water-conserving fixtures or recycled graywater	N/A	N/A
1				D	Credit 3.1	**Water Use Reduction**, 20% Reduction	Use high-efficiency fixtures, waterless urinals, and hand sensors to reduce potable water use by 20%.	MEP to complete LEED Online Template. Dual flush toilets, and .5 gpm sinks with auto cut off, waterless urinals.	**Earned**
1				D	Credit 3.2	**Water Use Reduction**, 30% Reduction	Use high-efficiency fixtures, waterless urinals, and hand sensors to reduce potable water use by 30%.	MEP to complete LEED Online Template. Dual flush toilets (not required for mens room), and ultra low flow urinals.	**Earned**

Yes	Likely	Not Likely	No			Energy & Atmosphere	Requirements	Responsibility	Action
10			6						
Y				C	Prereq 1	**Fundamental Commissioning of the Building Energy Systems**	Hire an independent agent to verify that all energy-related systems are installed, calibrated and perform according to the design.	Commissioning Agent to complete LEED online Template. Owner to Provide Owners Project Requirements. MEP to provide Basis of Design.	**Earned**
Y				D	Prereq 2	**Minimum Energy Performance**	Meet the Florida Energy Code	**MEP** to complete LEED Online Template	**Earned**
Y				D	Prereq 3	**Fundamental Refrigerant Management**	Do not use CFC refrigerants	**MEP** to complete LEED Online Template	**Earned**
6			4	D	Credit 1	**Optimize Energy Performance**	Reduce the building energy cost by 14% based on the Florida Energy Code. Use energy efficient lighting, insulated glazing, high efficiency HVAC systems, HVAC energy recovery units and high performance building envelope	**MEP** to complete energy modeling per ASHRAE 90.1 appendix G guidelines and complete LEED online template. Quantify cost of chill water. This project to "buy" chill water from facilities.	**Earned**
1			2	D	Credit 2.1	**On-Site Renewable Energy**	Install systems to capture solar, wind, water or geothermal energy to produce electricity or offset heating, cooling or water heating energy consumption	Consider solar PV, uni solar has been discussed. Consider reduction in cost.	**Earned**
1				C	Credit 3	**Enhanced Commissioning**	Use an independent commissioning agent to review design documents and review MEP submittals. Cx will verify training, TAB and POE.	Commissioning Agent to complete LEED online Template. Owner to Provide Owners Project Requirements. MEP to provide Basis of Design.	**Earned**
1				D	Credit 4	**Enhanced Refrigerant Management**	Do no use refrigerants OR select refrigerants that minimize or do not contribute to ozone depletion	**MEP** to determine if we qualify for this credit, consider using 134a, hydrofloracarbons, puron, etc. and if so complete LEED Online Template	**Earned**
1				C	Credit 5	**Measurement & Verification** Base Building	Develop a measurement and verification plan for base building energy consumption. Provide for the ongoing accountability of building energy consumption over time. Develop and implement an M&V plan.	MEP to design to this standard and complete LEED Online Template	**Earned**
		1		C	Credit 6	**Green Power**	Provide at least 35% of the building's electricity from renewable sources through a green power contract with the utility company.	Energy Model outputs to be used to generate proposal for this cost.	N/A

Yes	Likely	Not Likely	No			Materials & Resources	Requirements	Responsibility	Action
5			8						
Y				D	Prereq 1	**Storage & Collection of Recyclables**	Provide recyclable collection in common areas as well as a central collection/sorting area	Architect to include a recycling area (225s.f. requirement) into the plans. Owner to put recycling plan together.	**Earned**
			1	C	Credit 1.1	**Building Reuse**, Maintain 75% of Existing Walls, Floors & Roof	Reuse 75% of the existing building shell (excluding windows), floors and roof.	Architect to document and provide narrative	N/A
			1	C	Credit 1.2	**Building Reuse**, Maintain 100% of Existing Walls, Floors & Roof	Reuse 90% of the existing building shell (excluding windows), floors and roof.	Architect to document and provide narrative	N/A
			1	C	Credit 1.3	**Building Reuse**, Maintain 50% of Interior Non-Structural Elements	Reuse 50% of the interior walls, floors doors and ceilings.	Architect to document and provide narrative	N/A
1				C	Credit 2.1	**Construction Waste Management**, Divert 50% from Disposal	Recycle 50% of the site construction/demolition waste by weight of volume.	Contractor to develop CW plan. Contractor to track diversion rate and submit LEED Online Template	**Earned**
1				C	Credit 2.2	**Construction Waste Management**, Divert 75% from Disposal	Recycle 75% of the site construction/demolition waste by weight of volume.	Contractor to develop CW plan. Contractor to track diversion rate and submit LEED Online Template	**Earned**
			1	C	Credit 3.1	**Materials Reuse**, 5%	Use salvaged, refurbished or reused materials for 5% of the building material costs	N/A	N/A
			1	C	Credit 3.2	**Materials Reuse**,10%	Use salvaged, refurbished or reused materials for 10% of the building material costs	N/A	N/A
1				C	Credit 4.1	**Recycled Content**, 10% (post-consumer + ½ pre-consumer)	Use materials with recycled content for 10% of the building material costs. Based on Division 2 - 10 material values	Architect / Owner to specify materials. Contractor to forecast and track material costs and submit LEED online template. Consider Gerdou AmeriSteel, slag/flyash in concrete, drywall, flooring, ceiling tiles, finishes,etc.	**Earned**
			1	C	Credit 4.2	**Recycled Content**, 20% (post-consumer + ½ pre-consumer)	Use materials with recycled content for 20% of the building material costs. Based on Division 2 - 10 material values	Architect / Owner to specify materials. Contractor to forecast and track material costs and submit LEED online template. Consider Gerdou AmeriSteel, slag/flyash in concrete, drywall, flooring, ceiling tiles,etc.	N/A
1				C	Credit 5.1	**Regional Materials**, 10% Extracted, Processed & Manufactured Regionally	Use building materials that have been extracted, harvested or recovered and manufacturered within 500 miles of the project site for a minimum of 10% of the building material costs.	Architect to specify materials. Contractor to forecast and track material costs and submit LEED online template. Consider concrete, rebar, block, stucco, gypboard, glass.	**Earned**
			1	C	Credit 5.2	**Regional Materials**, 20% Extracted, Processed & Manufactured Regionally	Use building materials that have been extracted, harvested or recovered and manufacturered within 500 miles of the project site for a minimum of 20% of the building material costs.	Architect to specify materials. Contractor to forecast and track material costs and submit LEED online template. Consider concrete, rebar, block, stucco, gypboard.	N/A
			1	C	Credit 6	**Rapidly Renewable Materials**	Use rapidly renewable materials such as bamboo or cork for a minimum of 2.5% of the building material costs	N/A	N/A
1				C	Credit 7	**Certified Wood**	Use a minimum of 50% of wood based products (by cost of wood) which are certified by the Forest Stewardship Council	Architect to specify solid wood core FSC doors, patio, case work and plywood. Contractor to forecast and track material costs and submit LEED online template.	**Earned**

Yes	Likely	Not Likely	No						
10			5		Indoor Environmental Quality		Requirements	Responsibility	Action
Y				D	Prereq 1	**Minimum IAQ Performance**	Meet the ventilation requirements of ASHRAE 62.1 2004	**MEP** to document online at 100% CD. Fla Energy Code compliance table and narrative required for documentation.	**Earned**
Y				D	Prereq 2	**Environmental Tobacco Smoke** (ETS) **Control**	No smoking inside the building or within 25 feet of building entrances.	Architect to complete LEED online template, drawings indicating smoking areas will be required. Architect to document drawings showing distance from intakes and building entrances.	**Earned**
1				D	Credit 1	**Outdoor Air Delivery Monitoring**	Measure outdoor airflow and provide CO_2 sensors in densely occupied spaces.	**MEP** to design OA monitoring and CO2 sensors as needed. MEP to submit LEED online template	**Earned**
			1	D	Credit 2	**Increased Ventilation**	Increase ventilation rates by at least 30% over the minimum code requirements	N/A	N/A
1				C	Credit 3.1	**Construction IAQ Management Plan**, During Construction	During construction, protect ductwork and absorptive materials from water and dust AND protect air handling equipment being used during construction. Adopt SMACNA Guidelines	Contractor to develop Construction IAQ plan and submit LEED online template	**Earned**
			1	C	Credit 3.2	**Construction IAQ Management Plan**, Before Occupancy	Perform air testing prior to occupancy, one sample per air handler. Approx. $10,000 add.	Owner to comply with credit by using an industrial hygienist to complete air sampling and testing.	N/A
1				C	Credit 4.1	**Low-Emitting Materials**, Adhesives & Sealants	Use adhesives and sealants used in the building interior which have low VOC content	Architect to specify Low VOC. Contractor to review submittals and submit LEED online template.	**Earned**
1				C	Credit 4.2	**Low-Emitting Materials**, Paints & Coatings	Use paints and coatings used in the building interior which have low VOC content	Architect to specify Low VOC. Contractor to review submittals and submit LEED online template.	**Earned**
1				C	Credit 4.3	**Low-Emitting Materials**, Carpet Systems	All carpet and adhesives must be in accordance with the Green Label Plus program for low VOC content	Architect to specify Low VOC. Contractor to review submittals and submit LEED online template. Determine if there is a location for permenantly installed carpet.	**Earned**
1				C	Credit 4.4	**Low-Emitting Materials**, Composite Wood & Agrifiber Products	Use particle board, MDF, plywood and door cores that contain no added urea-formaldehyde	Architect to specify NO Ureaformaldahyde in MDF, plywood, door cores etc. Contractor to review submittals and submit LEED online template (Marshville Doors will comply)	**Earned**
1				D	Credit 5	**Indoor Chemical & Pollutant Source Control**	Use permanent entryway systems to capture dirt 6ft in direction of travel., use high efficiency air filters, and provide room exhaust for spaces where hazardous chemicals are used. 6ft in direction of travel.	Architect to design entryway systems. MEP to design in MERV 13 filters for ALL air handlers servicing occupied space and isoalted haz chem areas.	**Earned**
1				D	Credit 6.1	**Controllability of Systems**, Lighting	Provide lighting controls for 90% of the building occupants AND lighting system controllability for all shared multi-occupant spaces.	MEP to design lighting plan to meet these requirements.	**Earned**
			1	D	Credit 6.2	**Controllability of Systems**, Thermal Comfort	Provide individual comfort controls for 50% of the building occupants AND provide comfort controls for all shared multi-occupant spaces.	N/A	N/A
1				D	Credit 7.1	**Thermal Comfort**, Design	Provide a comfortable thermal environment which meets the standards of the American Society of Heating, Ventilation and Air Conditioning Engineers. ASHRAE 55- 2004	**MEP** to verify compliance and submit LEED letter template	**Earned**
1				D	Credit 7.2	**Thermal Comfort**, Verification	Implement a thermal comfort survey of building occupants between 6 to 18 months from occupancy.	Spinnaker to develop survey in conjunction with Owner. Spinnaker to complete LEED online template	**Earned**
			1	D	Credit 8.1	**Daylight & Views**, Daylight 75% of Spaces	Provide daylight in a minimum for 75% of all occupied spaces	N/A	N/A
			1	D	Credit 8.2	**Daylight & Views**, Views for 90% of Spaces	Provide views to the outdoors for 90% of all occupied spaces	N/A	N/A

Yes	Likely	Not Likely	No						
5				**Innovation & Design Process**			**Requirements**	**Responsibility**	**Action**
1				D	Credit 1.1	**Innovation in Design**: Exemplory Performance SSc5.2	Doubled the amount of open space required	Architect to document	**Earned**
1				D	Credit 1.2	**Innovation in Design**: Low-Mercury Lighting (back-up is Educational Display/Outreach)	Use only mercury-containing lamps with under 90 picograms per lumen hour for the building and associated grounds, including lamps for both indoor and outdoor fixtures, as well as both hard-wired and portable fixtures. Referebce LEED EB	Architect / Owner / MEP	**Earned**
1				D	Credit 1.3	**Innovation in Design**: Green Cleaning	Green Cleaning.	Develop program, contract with outside vendor to supply equipment and products.	**Earned**
1				D	Credit 1.4	**Innovation in Design**: Water Efficency	Exceed 40% water savings efficency	MEP to calculate and document	**Earned**
1				C	Credit 2	**LEED® Accredited Professional**	Architect to document	Architect to Document	**Earned**
Yes	Likely	Not Likely	No						
44			**24**	**Project Totals (pre-certification estimates)**			**69** Points		

Certified 26-32 points Silver 33-38 points Gold 39-51 points Platinum 52-69 points