

Version 4

Effective January 1, 2023
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Revised
12-26-2024

This reference guide is intended to serve two purposes:

- To provide information on green commercial practices.
- To provide details on how to earn points for complying with the Florida Green Commercial Designation Standard.

The Florida Green Building Coalition Green Commercial Standard applies to:

- All commercial buildings in Florida
- New construction and existing buildings
- Core and Shell Commercial Buildings

For each commercial application, the following are required submittals:

- Photos of the completed building Front, back and sides.
- A complete set of construction drawings including:
 - General Pages
 - o Civil
 - Architecture
 - Mechanical
 - Electrical
 - Plumbing
 - Landscape & Irrigation

Depending on the credits selected, please be prepared to submit the following for documentation:

- Elevation Certificate
- Environmental Site Assessment
- Demolition Plans
- Survey

Some of the credits have required submittals, these are designated by the color red.

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Core and Shell

When using this standard for a core and shell project, if accommodations are allowed for a given credit, the modified requirement is identified as "core and shell" and indicated within this reference guide.

Note:

It is possible to combine many submittals in one detailed plan. Letters or documented verbal communication from vendors can substitute for material and equipment cut sheets where required. No document produced by FGBC is intended to supersede or contradict the Florida Building Code.

INSTRUCTIONS FOR SUBMISSIONS:

Electronic Submission (required)

<u>Pay online</u> or complete the credit card authorization on the Final Application Form. (Note: Payment by check is acceptable - see mailing instructions below).

Send the completed Excel file containing the Final Application and Checklist, along with all supporting documents to the BuilderTrend.

BuilderTrend Link: https://buildertrend.net/

Payment Mailing Instructions

Mail check or credit card authorization (see Final Application Form) to FGBC. Please refer to https://floridagreenbuilding.org for the latest address.

Include a printed copy of the Final Application Form. Submit complete checklist and documentation via https://buildertrend.net/

For Additional Information contact your Project Evaluator or FGBC at PH: 407-777-4914. All documents are available for download on the FGBC website: www.FloridaGreenBuilding.org



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CATEGORY 1: PROJECT MANAGEMENT

PM Prerequisite 1: Green Project Meeting

Requirement: Design Team, Owner and project team decision makers must participate in a Green

Building Design Charrette conducted by an FGBC Designated Professional. The team must review the FGBC Commercial Building Standard Checklist and identify credit of interest fir the project. The training must be project specific, general green education courses do not

comply.

Points: Prerequisite - Required

Intent: Familiarize the project team decision makers with the FGBC checklist requirements and

identify a path to pursue certification.

Submittals: Provide documentation of design charrette, virtual or in person, such as a copy of the

meeting agenda, outline of notes, dated sign in sheet and or screen captures of the virtual

attendees. Provide a copy of the FGBC Checklist that resulted from the Charrette.

PM Prerequisite 2: Green COMMERCIAL Designated Professional

Requirement: The project team includes a certified FGBC COMMERCIAL Green Designated Professional.

Points: Prerequisite - Required

Intent: The FGBC Green COMMERCIAL Designated Professional is familiar with the credits, credit

requirements, intent and submittals associated with the Green COMMERCIAL Standard. The FGBC Green Designated Professional shall act as a liaison between the project team

and the FGBC.

Submittals: Copy of FGBC Green COMMERCIAL Designated Professional Certificate.

PM1.01 Comprehensive Design Charrette/Design Team Training

Requirement: Prior to 100% Construction Documents (CD's) the design team, owner and project team

decision makers must participate in a green project training. This training must be specific to the FGBC Green COMMERCIAL Standard and may be offered by the FGBC or the FGBC Designated Professional for the project. Attendees must include a participant

from all disciplines currently under contract for the project.

Points: 2

Intent: Reduce costs associated with redesign by introducing the design team to the credit

requirements prior to completing the building design.

Submittals: Provide training content documentation, means of training, and dated sign in sheet

PM1.02 Construction Team Training

Requirement: Design team, Owner, Project Team Decision Makers, General Contractor, and

subcontractors currently under contract for the project participate in an FGBC

Commercial training that addresses the overall certification standard and focuses on the credits targeted by the high-rise project. Subcontractors associated with the following activities must be trained prior to commencing VERTICAL work on the site: General Contracting, MEP, HVAC, irrigation, and interior finishes. Multiple trainings may be

required to properly educate the construction team.

Points: 2



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Intent: Clearly identify the credits the project is pursuing towards certification, identify credits

that require contractor input, sub bids, documentation during construction, additional training, or participation to minimize any cost associated with construction delays or

misinterpretation of targeted credits.

Submittals: Provide training content documentation, means of training and a dated sign-in sheet.

PM1.03 Facility Manager & Staff Training

Requirement: Operational staff, including facility manager, leasing agent, sales staff, or any individual

that works over 20 hours a week in a capacity managing or maintaining the building must attend a green training. This training must be specific to the FGBC Green COMMERCIAL Standard and may be offered by the FGBC or the FGBC Designated Professional for the

project. Training must include an explanation of the certification, criteria

pursued/achieved, and information regarding green operation and maintenance of the

building.

Points: 1

Intent: Maintain the integrity of the green certification by educating staff regarding proper

operation and maintenance of their high-performance building.

Submittals: Provide training content documentation, means of training and a dated sign-in sheet. If

training is recorded for use by future staff provide link to training video.

PM1.04 Green Website

Requirement: Provide information on the project website regarding the FGBC green certification of the

project, a link to the project score sheet, information on green operation and maintenance, helpful links regarding FGBC, energy efficiency, water efficiency, and

healthy buildings.

Points: 1

Intent: Maintain the integrity of the green project by educating occupants regarding proper

operation and maintenance of their high-performance building.

Submittals: Provide the web address and copies of the content.

PM1.05 Green Education

Requirement: Provide permanently installed signage that educates building occupants and visitors of

the sustainable features and benefits that are incorporated into the building. A minimum of 5 signs must be placed in public/common/high traffic areas of the building to receive this credit. Education may be displayed in common areas by electronic means as an

alternative to physical signs.

Points: 1

Intent: To educate both building occupants and visitors on the green features and benefits of the

building. FGBC also recommends that the signs are made from a green material.

Submittals: Submit a floor plan of the building indicating the location of the signs, the content for

each of the 5 signs, and either a graphic design of the sign or a photo of the actual sign.

Resources: -



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PM2.00 Building Information Modeling (BIM)

Requirement: Design team and construction teams use BIM process to optimize the efficiencies related

to design, estimating, materials ordering, and construction.

Points: 1 point for Architect

2 points for Architect, Structural, and MEP

5 points for Architect, Structural, MEP, Contractor and Mechanical, Electrical, Plumbing

and Fire Subs

Intent: Reduce costs associated with design and construction conflicts by identifying issues prior

to construction.

Submittals: Provide a minimum of 6 examples of 3D renderings and conflict reports, Meeting minutes

discussing conflict resolution may be submitted in lieu of conflict reports.

PM3.00 Cost Benefit Analysis

Requirement: FGBC Designated Professional in coordination with the General Contractor and Owner

shall document the cost impact of the energy and water credits. Earn 1 point for each energy or water credit Cost-Benefit Analysis. Analysis shall include a minimum of two building alternatives considered to achieve the credit, the cost associated with each

alternative and calculated annual kWh, gallons of water, and cost savings.

Points: 1-5

Intent: Provide cost data so that the project owner may make informed decisions regarding

energy and water efficiency.

Submittals: The project must submit a copy of the FGBC Checklist from:

1. The team kickoff meeting

2. 100% Construction Document Phase

3. Final FGBC Submittal

Include assumptions regarding interest rates, life of materials, and any other assumptions made for the analysis. A short narrative must accompany each credit explaining the options reviewed, environmental benefits, and reasoning for final selection for inclusion in the project.



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CATEGORY 2: ENERGY

E Prerequisite 1: Owner Project Requirements (OPR)

Requirement: Owner designated representative must develop a list of owner project requirements

related to each of the FGBC categories of the commercial standard. The OPR should indicate minimum goals for each FGBC category and any specific credits the Owner wishes

to target.

Points: Prerequisite - Required

Intent: To establish performance criteria for the project as it relates to each of the FGBC Green

Commercial Building categories.

Submit a narrative explaining the OPR for the project. **Submittals:**

Resources:

E Prerequisite 2: Basis of Design (BOD)

Requirement: Design team representatives develop and document how the building design will achieve

the Owner Project Requirements. The Basis of Design should specify how the FGBC goals of the OPR are addressed and how the performance desires of the Owner will be achieved

by the proposed design.

Points: Prerequisite - Required

Intent: To assist the design team in fulfilling the Owner project requirements.

Submittals: The design team must submit a narrative that explains how the design decisions support

the Owner project requirements.

Resources:

E Prerequisite 3: Testing and Balancing of Installed Equipment

- Requirement: 1. Mechanical Electrical Plumbing (MEP) Engineering Firm, Commissioning Agent or Independent inspector representing the owner works with the Architect or design team leader to verify field installed equipment meet OPR, BOD and is installed and operating correctly. Testing and verification must include at a minimum, Heating, Ventilation, Air Conditioning and Refrigeration (HVAC&R) systems & controls and shall be performed by a licensed engineer or a professional certified by the National Environmental Balancing Bureau (NEBB), the Associated Air Balance Council (AABC), or other nationally accredited organization. For residential units, perform a comfort balance on a minimum of 1 of each unit type to verify that the CFM is consistent with the Manual D's
 - 2. Functional Testing of the lighting systems and controls, renewable energy systems, hot water system, and energy and water measurement devices as determined by the project engineer of record.

For buildings with less than 40 tons or HVAC: Verify field installed equipment meet the OPR, BOD and are installed and operating correctly. Field verify cfm provided is as designed by the engineer of record, verify air temperature at vent is 55 degrees and if mechanically supplied dedicated outside air is present, verify the quantity of ventilation air.



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Points: Prerequisite - Required

Intent: To verify that the as built structure performs as the design intended and that the installed

equipment is installed and set to the manufacturer's requirements.

Submittals: The design team shall provide a copy of the testing and balancing report.

Resources: -

E Prerequisite 4: Minimum Energy Performance

Requirement: Building must perform the minimum required by the Florida Commercial Building Energy

Code when the building is permitted - as verified by the Energy Gauge Summit Fla/Com software or other state approved performance-based software. A whole building performance model is required, projects using software such as ComCheck will comply

with this prerequisite but will not receive points under credit E4.

Points: Prerequisite - Required

Intent: Reduce energy use

Submittals: Submit a copy of the Energy Gauge Summit "Total Building Performance Method for

Commercial Buildings – Project Summary" (Form 506-2010) or its equivalent) from software approved by the Florida Building Commission that identifies the percent above

code minimum the proposed building design has achieved.

Resources: www.floridabuilding.org/fbc/committees/energy/Energy_Code_Compliance_Software.html

E Prerequisite 5: Ozone Depletion Potential Management

Requirement: Requires that all building HVAC&R systems be free of CFC's and Halons.

When reusing existing base building HVAC equipment, complete a comprehensive 5-year

CFC phase-out conversion.

Points: Prerequisite - Required
Intent: Reduce ozone depletion.

Submittals: Mechanical engineer will submit a signed letter declaring that the building's new HVAC&R

systems do not use CFC-based refrigerants or that the existing HVAC&R systems will be

phased out in 5 years.

Resources: -

E1.01 EPA Target Finder

Requirement: Designated project team member is required to enter baseline building and proposed

design building information into the EPA Target Finder Program.

Points: 1 point

Intent: Target Finder is a no-cost online tool that enables you to set energy targets and receive an

EPA energy performance score for projects during the design process. The "Target Rating" uses the EPA energy performance rating of 1-100. 75 or higher denotes ENERGY STAR. An

"Energy Reduction Target" is the percentage reduction from the average energy

consumption of a similar building in your climate region, i.e. A Target Finder score of 75 indicates that the building performs better than 75% of similar buildings in its region.



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Submittals: Submit a copy of the printout of the building from the Target Finder Program. Please

note that there are instances where the Target Finder database does not have enough information to generate a report for your building type. If you enter your building data and the report results in an error, simply provide a copy of the error report page and you

will be awarded 1 point.

Resources: www.energystar.gov/index.cfm?c=new_bldg_design.bus_target_finder

E2 Portfolio Manager

E2.01 Input building into Portfolio Manager

Requirement: Use EPA Portfolio Manager to baseline and track building design and ongoing

performance

Points: 1

Intent: To assist the project team in benchmarking, tracking, and reporting on their building

projects with respect to environmental impacts. Portfolio Manager is an interactive energy management tool that allows you to track and assess energy and water consumption across your entire portfolio of buildings in a secure online environment. Whether you own, manage, or hold properties for investment, Portfolio Manager can help you set investment priorities, identify under-performing buildings, verify efficiency

improvements, and receive EPA recognition for superior energy performance.

Submittals: Submit a printout showing the project listed in Portfolio Manager

Resources: https://www.energystar.gov/istar/pmpam/

E2.02 Grant FGBC access to the project Portfolio Manager Account

Requirement: FGBC is given access to the building information within Portfolio Manager.

Points: 1

Intent: To allow FGBC to collect performance data on FGBC Certified Projects.Submittals: User name and password (access information) for Portfolio Manager

Resources: https://www.energystar.gov/istar/pmpam/

E3 Commissioning

E3.01 Fundamental Building Systems Commissioning

Requirement: Fundamental Building Systems Commissioning: Implement or have a contract in place to

implement all of the following fundamental best practice commissioning procedures Commissioning includes verifying installation, functional performance testing, training and documentation for EACH of the commissioned system or components as compared to the design intent, training of owner designated O&M professional and completion of the

operation and maintenance manuals.

The minimum requirements for serving as the commissioning agent are:

 Must have served as the commissioning agent of record on at least two (2) projects certified by a state or nationally recognized green certification program, OR



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- 2. Participated in the commissioning of at least two (2) green certified projects and have a letter of recommendation from the project's commissioning agent of record, OR
- 3. Possess one of the following designations:
 - a. CPMP Commissioning Process Management Professional Certification (ASHRAE)
 - b. BCxP Building Commissioning Professional (ASHRAE)
 - CEM Certified Energy Manager (AEE Association of Energy Engineers)
 - d. PE Professional Engineer
 - e. ACG Commissioning Agent (ACG AABC Commissioning Group)

The commissioning agent (CxA) be an independent party hired by the owner, reporting to the owner. If the CxA is contracted as part of the design or construction team, the CxA must have in their contract that they report directly to the owner with respect to performance verification and they must disclose any involvement with the design team to verify unbiased ability to verify OPR and BOD.

Points: 4

Intent: Verify that the OPR and BOD have been met, identify equipment shortcomings and verify

corrections to failures of equipment start-up or inadequate operations

Submittals: Submit a copy of the CxA signed contract (black out fees), OPR, BOD, Commissioning Plan

and Commissioning Report. The commissioning plan should include an overview of the commissioning process, a list of systems and features, the commissioning participants and

their roles, a communication and management plan, an outline of the scope of

commissioning tasks, and a schedule. Where possible, include copies of the completed startup checklists. The commissioning report should contain the analysis of whether each commissioned system or component meets the design intent, specifications, was properly installed, passed the functional performance tests, was properly documented in the O&M

manuals, and was covered in the operator training.

Resources: http://www.wbdg.org/project/buildingcomm.php

E3.02 Advanced Building Systems Commissioning

Requirement:

Complete Fundamental Commissioning and the following commissioning process (CxP) activities for mechanical, electrical, plumbing, and renewable energy systems and assemblies in accordance with ASHRAE Guideline 0–2005 and ASHRAE Guideline 1.1–2007 for HVAC&R systems, as they relate to energy, water, indoor environmental quality, and durability. In addition to fundamental commissioning the CxA:

- 1. Review contractor submittals.
- 2. Verify inclusion of systems manual requirements in construction documents.
- 3. Verify inclusion of operator and occupant training requirements in construction documents.
- Verify systems manual updates and delivery.
- 5. Verify operator and occupant training delivery and effectiveness.
- 6. Verify seasonal testing.
- 7. Review building operations 10 months after substantial completion.
- 8. Develop an on-going commissioning plan.



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The minimum requirements for serving as the commissioning agent for advanced commissioning are serving as the commissioning agent of record on at least two (2) projects certified by a state or nationally recognized green certification program..

Points: 5

Intent: Verify and ensure that the entire building is designed, constructed and calibrated to

operate as intended.

Submittals: Copy of signed contract explaining scope of work (contract amount may be excluded).

Provide a copy of the CxA design document review report provided to the owner and design team, provide a copy of the review notes of the specifications provided to the design team, provide a copy of the owner manual for re-commissioning and copy of

building operation review contract.

Resources: http://www.wbdg.org/project/buildingcomm.php

E3.03 Additional Building Systems Commissioning

Requirement: Commissioning shall also include building envelope, elevators, commercial kitchen

equipment, and any other equipment as recommended by the CxA.

Points: 1

Intent: Verify and ensure that the entire building is designed, constructed and calibrated to

operate as intended.

Submittals: Copy of signed contract explaining scope of work (contract amount may be excluded) and

a letter from the CxA or the building owner stating all CxA duties were completed. Also, should include a list of equipment from the CxA that they recommended for additional

commissioning.

Resources: http://www.wbdg.org/project/buildingcomm.php

E4 Energy Performance Improvement

Requirement:

Submit performance-based energy calculations indicating *base/required* energy performance for passing Florida Energy code and *designed* building energy performance of the building as designed. For example, if using Energy Gauge Summit® the results report indicates the "Passing Criteria" and the "Design (including any credits) numbers. These are the numbers used to calculate the energy performance percentage better than code used to determine the points received for this credit.

Points: 2 points for each percentage point below Florida Energy Code.

Up to 60 points

Intent: Achieve increasing levels of energy performance above the prerequisite standard to

reduce environmental impacts associated with excessive energy use.

Energy Performance Improvements greater than 30% below the Florida Energy Code:

It is FGBC's intent to encourage conservation and the reduction of energy use in the building environment. The FGBC Certification programs are designed to encompass a broad spectrum of green building and sustainable construction practices including energy, water, site, health, materials, and disaster mitigation. If your project achieved the required minimum points in each category the project may claim additional points, 2 points for each percentage greater than 31% energy use reduction, in the innovative credit category.



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Submittals: Submit a copy of the FLA/COM Form 400A **http://www.energygauge.com/flacom/**

E5 Renewable Energy Production

Requirement: Supply a fraction of the building's total energy use (as expressed as a fraction of annual

energy cost) through the use of on-site renewable energy systems.

Points: 1 point per 1% of the building power provided. Maximum 20 points.

Intent: Encourage improved efficiencies and reduce reliance on non-renewable energy sources.

Submittals: Provide a copy of the contract for the purchase of renewable energy indicating the types

of renewable purchased and the total kWh of energy production capacity.

Resources: -

E6 Green Power

Requirement: Provide a percentage of the building's electricity from renewable sources by engaging in

at least a one-year renewable energy contract to purchase green power. The Checklist requires that you enter the kWh that are being purchased and the length of the contract.

Points: 1 point for 50% for 1 year

2 points for 100% for 1 year 3 points for 100% for 2 years

Earn 1 bonus point for Certified Green Power which is provided by renewable

generation in Florida.

Intent: Encourage the development and use of grid-source, renewable energy technologies on a

net zero pollution basis. Renewable sources are as defined by the Center for Resource Solutions (CRS) Green-e products certification requirements. Green power may be procured from a Green-e certified power marketer, a Green-e accredited utility program,

or through Green-e certified Tradable Renewable Certificates.

Submittals: Provide a copy of the signed green power purchase contract.

Resources: -

E7 Daylight Sensors

Requirement: Install daylight sensors in occupied areas of the building. Earn 1-2 based on the building

square footage, not required by code, that has daylight sensors. Note spaces where daylight sensors are not allowed due to safety/security or spaces without windows (or natural light) may be excluded from the square foot calculation. Daylighting sensors installed shall provide controls that automatically reduce lighting power in response to available daylighting, either by continuous daylight dimming OR a combination of stepped switching and daylight-sensing automatic controls, which are capable of incrementally reducing the light level in step automatically and turning the lights off automatically.

Points: 1 point ≥ 50% of building square footage equipped with daylight sensors

2 points ≥ 75% of building square footage equipped with daylight sensors

Intent: Reduce energy consumption from lighting by installing sensors that automatically dim

artificial lighting when enough daylight is available for the tasks conducted in a given

building space.



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Submittals: Floor plan with location of daylight sensors, approved submittals and photos of installed

sensors.

Resources: -

E8 Occupancy Sensors

This credit has been removed as occupancy sensors are required by the 2020 Florida Building Code

E9 Interior Lighting

Requirement: Building lighting is designed to turn off after regular business hours. This may be achieved

by lighting controls, timers, or motion, occupancy, vacancy sensors with override.

Lighting required for safety and security except.

Points: 1

Intent: Reduce energy demand from artificial lighting in unoccupied buildings after business

hours.

Submittals: Provide electrical drawings, approved submittal for sensors and photos of installed

sensors

Resources: -

E10 Lighting Power Density

Requirement: Design and construct such that the average lighting power density for the building, which

includes conditioned space and enclosed spaces defined as enclosed with doors, windows and roof (for instance fire truck bay) and which excludes the structures exterior and

parking area shall be ≤ 0.7 W/SF.

Points: 1-5

1 point: ≤ 0.7W/SF 2 points: ≤ 0.6W/SF 3 points: ≤ 0.5W/SF 4 points ≤ 0.4W/SF 5 points ≤ 0.3W/SF

Intent: Reduce energy consumption associated with lighting.

Submittals: Signed approved lighting submittal, photos of installed lighting and Watt per square foot

calc.

Resources: - http://www.energygauge.com/

E11 Exterior Lighting Efficiency

Requirement: Meet or exceed the efficiency requirements of the 2018 IECC Chapter 4 Commercial

Energy Efficiency for Exterior Lighting C405.4.2.

Points: 3

Intent: Reduce energy consumption associated with lighting.

Submittals: Signed approved lighting submittal, photos of installed lighting and Watt per square foot

calc.

Resources: - http://www.energygauge.com/



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LIGHTING ZONE	DESCRIPTION
1	Developed areas of national parks, state parks, forest land, and rural areas
2	Areas predominantly consisting of residential zoning, neighborhood business districts, light industrial with limited nighttime use and residential mixed-use areas
3	All other areas not classified as lighting zone 1, 2 or 4
4	High-activity commercial districts in major metropolitan areas as designated by the local land use planning authority

TABLE C405.4.2(2) LIGHTING POWER ALLOWANCES FOR BUILDING EXTERIORS

		LIGHTING ZONES				
	Zone 1	Zone 2	Zone 3	Zone 4		
Base Site Allowance	350 W	400 W	500 W	900 W		
	Uncove	red Parking Areas				
Parking areas and drives	0.03W/ft ²	0.04 W/ft ²	0.06 W/ft ²	0.08 W/ft ²		
	Bui	lding Grounds				
Walkways and ramps less than 10 feet wide	0.5 W/linear foot	0.5 W/linear foot	0.6 W/linear foot	0.7 W/linear foot		
Walkways and ramps 10 feet wide or greater, plaza areas, special feature areas	0.10 W/ft ²	0.10 W/ft ²	0.11 W/ft²	0.14 W/ft ²		
Dining areas	0.65 W/ft ²	0.65 W/ft ²	0.75 W/ft ²	0.95 W/ft ²		
Stairways	0.6 W/ft ²	0.7 W/ft ²	0.7 W/ft ²	0.7 W/ft ²		
Pedestrian tunnels	0.12 W/ft ²	0.12 W/ft ²	0.14 W/ft ²	0.21 W/ft ²		
Landscaping	0.03 W/ft ²	0.04 W/ft ²	0.04 W/ft ²	0.04 W/ft ²		
	Building Entrances and Exits					
Pedestrian and vehicular entrances and exits	14 W/linear foot of opening	14 W/linear foot of opening	21 W/linear foot of opening	21 W/linear foot of opening		
Entry canopies	0.02 W/ft ²	0.25 W/ft ²	0.4 W/ft ²	0.4 W/ft ²		
Loading docks	0.35 W/ft ²	0.35 W/ft ²	0.35 W/ft ²	0.35 W/ft ²		
	Sa	les Canopies				
Free-standing and attached	0.04 W/ft ²	0.04 W/ft ²	0.6 W/ft ²	0.7 W/ft ²		
	Oi	utdoor Sales				
Open areas (including vehicle sales lots)	0.02 W/ft ²	0.02 W/ft ²	0.35 W/ft ²	0.05 W/ft ²		
Street frontage for vehicle sales lots in addition to "open area" allowance	No allowance	7 W/linear foot	7 W/linear foot	21 W/linear foot		



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E12 Solar Study of Building

Requirement: Project team conducts solar study of project site and building location – To receive this

credit the team must document the design or orientation modification that was incorporated into the project to reduce solar heat gain as a result of the solar study.

Points: 2

Intent: Reduce energy consumption by modifying the building design and orientation based on

solar study findings.

Submittals: Submit the design or orientation modification that was incorporated into the project to

reduce solar heat gain as a result of the solar study. Provide copies of the solar study

graphics and outputs.

Resources: -

E13 Energy Monitoring Interface

Requirement: Install a building user feedback system that indicates the real time building energy

consumption. The monitoring interface should be available to facility or building

manager. If the building uses renewable energy generation on site, the energy generated

from renewable sources should also be displayed. To receive 5 points the energy monitoring interface must be centrally located in a public or common space with appropriate signage. To receive 10 points the energy monitoring interface should be available at multiple feedback points and provide an interface at each building occupant

workstation.

Points: 5 points Single system in common area

10 points System has multiple feedback points AND may be viewed by every

building occupant.

Intent: Improve the energy performance

Submittals: A floor plan showing the location of the energy monitoring interface device(s), approved

submittal for system and photos of the device(s) with the installed information sign.

Resources: -



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CATEGORY 3: WATER

W Prerequisite 1 No Invasive Plants

Requirement: Landscape comprised of no invasive plants. NO category 1 plants. Use of no category II

plants is highly recommended.

Points: Prerequisite - Required

Intent: Avoid the spread of invasive plants and promote a Florida Friendly landscape.

Submittals: Landscape plan, plant list and photos of installed landscaping.

Resources: A list of such plants can be found at:

https://floridainvasivespecies.org/plantlist2019.cfm

W Prerequisite 2 Irrigation zones for turf and landscape beds are separate

Requirement: Implemented landscape design must separate irrigation zones for turf and landscape

beds.

Points: Prerequisite - Required

Intent: Reduce the amount of supplemental water, potable and non-potable, needed for

irrigation.

Submittals: Landscape plan indicating vegetation and irrigation zones, location, and type of controller.

Photos of installed landscaping.

Resources: http://www.sjrwmd.com/floridawaterstar/index.html and Florida Friendly Best

Management Practices for Protection of Water Resources by the Green Industries,

http://www.floridayards.org/

W Prerequisite 3 Rain shut off device installed CORRECTLY and operable

Requirement: Verify correct installation of a Rain shut off device for irrigation per Florida Statutes

373.62 effective May 1, 1991, and field verify that the device is operating correctly

Points: Prerequisite - Required

Intent: Reduce the amount of supplemental water, potable and non-potable, needed for

irrigation.

Submittals: Field inspection report signed by a responsible team member indicating that the rain shut

off device is correctly functioning.

Resources: Florida Statutes 373.62

W Prerequisite 4 Drought Tolerant Landscape, 50%

Requirement: Landscaped area is a minimum of 50% Drought Tolerant Plants

Points: Prerequisite - Required

Intent: Reduce the amount of supplemental water, potable and non-potable, needed for

irrigation.

Submittals: Plant list for the project specifically identifying Florida Friendly low water plants and

calculation of percent drought tolerant vegetation.

Resources: To obtain a list of drought tolerant plants and trees for your area, contact your local water

management district, consult the Waterwise Florida Landscapes publication, or consult



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with a FY&N professional, Master Gardener, Florida WaterStar or WaterSense Certifier.

For References here are some helpful websites:

http://www.sjrwmd.com/waterwiselandscapes/

http://fyn.ifas.ufl.edu

http://www.floridawaterstar.com.

W1 Interior water use reduction

W1.01 Toilets

Requirement: All installed toilets must have a minimum MaP (Maximum Performance) rating of 800 OR

are WaterSense Certified. For Dual Flush toilets, to receive one point, ONE of the two

flush options must be ≤ 1.1 gpf. Points available for this credit are listed below.

Points: 1 point all toilets ≤ 1.28 gallons per flush (gpf)

2 point all dual flush with one flush option ≤ 1.1 gpf and one < 1.28 gpf

3 points all toilets are single flush ≤ 1.1 gpf

Intent: Toilets represent the largest source of indoor water use in buildings, accounting for up to

30%-40% of water demand. The Florida building code and National Energy Policy Act of 1992 (EPACT) require that all installed toilets be rated at a maximum flow rate of 1.6 gallons/flush. There are toilets on the market today that exceed these standards.

To make it easy to find and select water-efficient products with good performance, the EPA (Environmental Protection Agency) has introduced its WaterSense® program, a label that's backed by independent testing and certification. WaterSense®-labeled products perform their intended functions as well as or better than their less-efficient

counterparts. And generally speaking, they're about 20 percent more water efficient.

Submittals: Signed approved submittal and photos of installed fixtures.

Resources: For a list of high efficiency commodes that have earned the WaterSense® label, visit

http://www.epa.gov/watersense/pp/het.htm. For MaP ratings of commercial

(flushometer) toilets, select "Reports" from http://www.veritec.ca (Veritec Consulting, Inc.). For MaP and Water-Sense combined results for Toilets (commercial and non), visit

http://www.cwwa.ca/freepub_e.asp.

W1.02 Urinals

Requirement: All installed urinals must have flow rate of less than 0.5 gpf or be waterless.

Points: 1 point all urinals \leq 0.5 gpf

2 points all urinals ≤ 0.125 gpf (1 pint)

3 points Waterless urinals

Intent: Reduce potable water used inside the building

Submittals: Signed approved submittal and photos of installed fixtures.

Resources: -

W1.03 Lavatory Faucets

Requirement: All lavatory faucets must be low flow, WaterSense, or sensor faucets to achieve this

credit. Points available are listed below



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Points:

2 points all lavatory faucets are ≤ 1.5 gpm 3 points all lavatory faucets are ≤ 0.5 gpm

3 points Motion Sensor self-closing faucet (0.25 gal/metering cycle Max)

Intent: Reduce potable water used inside the building

Submittals: Signed approved submittal and photos of installed fixtures.

Resources: -

W1.04 Kitchen Faucets

Requirement: All kitchen faucets must have a flow rate less than or equal to 2.0 gpm. This includes

break rooms, commercial kitchen, or any other kitchen. Points available are listed below.

Points: 1 point all kitchen faucets are ≤ 2.0 gpm

2 points all kitchen faucets are ≤ 1.75 gpm
3 points all kitchen faucets are ≤ 1.5 gpm
4 points all kitchen faucets are ≤ 1.0 gpm

Intent: Reduce potable water used inside the building

Submittals: Signed approved submittal and photos of installed fixtures.

Resources: -

W1.05 Showerheads

Requirement: All Installed showerheads with flow rate less than or equal to 2.2 gallon per minute (gpm).

Points available are listed below

Points: 1 point all showerheads are \leq 2.2 gpm

2 points all showerheads are ≤ 2.0 gpm
3 points all showerheads are ≤ 1.75 gpm
4 points all showerheads are ≤ 1.5 gpm

Intent: Reduce potable water used inside the building

Submittals: Signed approved submittal and photos of installed fixtures.

Resources: -

W1.06 Dishwashers

Requirement: All installed dishwashers must be Energy Star qualified with a Water Factor (WF) of 7.0 or

less. Dishwashers installed in commercial kitchens must be Energy Star Qualified.

Points:

1 point All residential style dishwashers are Energy Star Qualified with Water

Factor (WF \leq 7.0)

2 point All residential style dishwashers are Energy Star Qualified with Water

Factor (WF ≤ 5.8)

3 points All commercial dishwasher <1.2 gallons per rack for fill and dump

machines or < 0.9 gallons per rack for all other types. Under counter machines < 1.0 gallon per rack for high temperature and < 1.7 gallon per

rack for low temperature



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Intent: Reduce the amount of potable water used inside the buildingSubmittals: Signed approved submittal and photos of installed fixtures.

Resources: -

W2 Greywater Reuse

W2.01 Air conditioner condensate collected and used to reduce potable

water use

Requirement: Greywater system is installed to reduce demand on potable water. System must have a

specific collection source and a dedicated use.

Points: 1 point

Intent: Reduce the consumption of potable water by using alternative sources. For example, air

conditioner condensate could be used to refill site water features, used for irrigation, or

as make-up water chillers.

Submittals: Construction drawings indicating design and location of system

Resources: -

W2.02 Greywater System - dual piping system is installed throughout

building

Requirement: Greywater system is installed to reduce demand on potable water. System must have a

specific collection source and a dedicated use.

Points: 3 – 28 points

3 points: Collect, treat, and use AC condensate as a supplement for potable

water.

10 points: Collect, treat, and use greywater from all commercial spaces to supply

the water used for irrigation OR for cooling tower make up water.

5 points: Collect, treat, and use greywater from all interior sources to supply the

water used for toilet/urinal flushing. Collected and treated greywater must supply a minimum of 25% of the water required for toilet/urinal

flushing.

10 points: Collect, treat, and use greywater from all interior sources and treated to

potable standards for use throughout the building. Greywater collected must provide a minimum of 25% of the buildings annual water use.

Intent: Reduce the consumption of potable water by using alternative sources. For example,

water from lavatory sinks could be used to refill site water features, used for irrigation, or

as make-up water chillers.

Submittals: Construction drawings indicating design and location of system, approved submittal for

system and photos of installed system.

Resources: -



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W3.01 Rainwater Harvesting

Requirement: Install rainwater harvesting collection and storage system to reduce the demand on

potable water. Achieve additional points, per the break down below, as the rainwater collection system increases in functional use to replace both potable and non-potable

water.

Points: 2-15 points

2 points: Collect, treat, and use rainwater to supply 50.0% of the water used for

irrigation.

5 points: Collect, treat, and use rainwater to supply 100.0% of the water used for

irrigation.

2 points: Collect, treat, and use rainwater to supply 1.0% of the annual cooling

tower make up water.

5 points: Collect, treat, and use rainwater to supply 2.0% of the annual cooling

tower make up water.

2 points: Collection for toilet/urinal flushing. Collected rainwater must supply a

minimum of 25% of the water required for toilet/urinal flushing.

5 points: Rainwater is collected and treated to potable standards for use

throughout the building. Rainwater collected must provide a minimum

of 25% of the buildings annual water use.

Intent: Decrease both potable and non-potable water use by collecting and using rainwater. With

an average rainfall of 54 inches/year in the state of Florida (compared to the national average of 27 inches/year), harvested rainwater is an excellent source of water for landscape irrigation, chiller water make-up, some industrial uses, greywater (toilet and urinal flushing) and with minimal treatment can be made potable for consumption. Rainwater is generally harvested from a roof surface, and system components include properly designed gutters, piping, roof washes, screens, and storage tank/cisterns.

Submittals: Construction drawings indicating design and location of system, signed approved

submittal of system installed and photos of installed system.

Resources: For more information consult A Guide to Environmentally Landscaping: Florida Friendly

Landscape Handbook or visit

http://fyn.ifas.ufl.edu/materials/FYN Handbook vSept09.pdf

Additional information on rainwater harvesting can be found at:

http://rainwater.sustainablesources.com/ and

http://www.toolbase.org/Techinventory/TechDetails.aspx?ContentDetailID=918&BucketI

D=6&CategoryID=11.

W 3.02 Cooling Tower Water Conservation

Requirement: Install conductivity meter to monitor cooling tower water chemistry to minimize make up

water needs. Maximize the number of cycles of concentration by using a conductivity

meter to determine water replacement and blow downs.

Points: 3

Intent: Save water by reducing the number of blow downs required to effectively maintain your

cooling tower.

Submittals: Construction detail and signed approved submittal.



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W4 Installed Landscape

W4.01 Florida Friendly Drought-Tolerant Landscape

Requirement: Use of at least 60% of the plants and trees incorporated into the landscape are from a

local drought tolerant list; 2 points are available if 80% are from such a list; and 3 points are available if 100% of the plants and trees are from such a list. A minimum of twelve

total plants must be present in the landscape to qualify for the credit.

Points: 1 point ≥ 60% and < 80% Drought Tolerant Florida Friendly

2 points ≥ 80% and < 100% Drought Tolerant Florida Friendly

3 points 100% Drought Tolerant Florida Friendly

Intent: Decrease the water resources used to irrigate landscape

Submittals: Letter verifying compliance with the criteria is signed by one of the following: the

landscape architect, a WaterStar or WaterSense Certifier, a Florida Friendly Landscape representative, or a Master Gardener. The team may also provide a list of installed plants and the corresponding plant drought tolerance rating according to Florida Friendly

Landscape database. http://www.floridayards.org/fyplants/index.php

Resources: To obtain a list of drought tolerant plants and trees for your area, contact your local water

management district, consult the Waterwise Florida Landscapes publication, or consult with a FY&N professional, Master Gardener, or Florida WaterStar or WaterSense Certifier.

For References here are some helpful websites:

http://www.sjrwmd.com/waterwiselandscapes/, http://fyn.ifas.ufl.edu,

http://www.floridawaterstar.com/floridawaterstar/.

W4.02 Turf/Sod Percentage

Requirement: Turf is installed on less than 50% of landscape, install drought tolerant turf, Bahia, Zoysia,

or Bermuda grass in sunny areas (<20% shade on June 21) and do not use turf is used in

densely shaded areas (>60% shade on June 21).

Points: 1 point < 50% Turf/sod

2 point < 40% Turf/sod 3 point < 30% Turf/sod 4 point < 20% Turf/sod 5 point < 10% Turf/sod

Intent: Turf is generally the largest consumer of water in the landscape, and most types will not

flourish in shady areas. Use of drought tolerant plants in shaded areas

Submittals: Site plan indicating total SF of site and total SF of turf, turf calculation as a percentage of

the site and or turf square footage as purchased on the plant list invoice.

Resources: -

W4.03 All plants/trees selected to be compatible with local environment /

microclimate

Requirement: All plants (including shrubs, groundcovers, and vines and trees) are compatible with their

location in the landscape

Points: 2



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Intent: Even if preferred native, drought tolerant, and low maintenance plants are selected for

the landscape, many times the plants are installed in areas of the landscape where they are not likely to remain healthy due to various sun/shade and soil type requirements. Incompatibility between the plant(s) and their placement results in over watering and

over fertilizing.

Submittals: Landscape plan and plant list. Letter verifying compliance with the criteria is signed by

one of the following: the landscape architect, a WaterStar or WaterSense Certifier, a

Florida Friendly Landscape representative, or a Master Gardener.

Resources: http://floridayards.org/fyplants/index.php

W4.04 Plants with similar maintenance grouped together

Requirement: Landscape is planned and installed according to plant maintenance requirements such

that similar maintenance plants are grouped together.

Points: 2

Intent: Grouping plants with similar maintenance requirements together increases irrigation

efficiency. Lawns that require a lot of water from sprayers and rotors should not be watered in the same irrigation zone as drought-tolerant plants that require less water and that can be efficiently irrigated with micro-irrigation (micro-spray jets, drip systems,

bubblers, or soaker hoses).

Submittals: Landscape plans and photos of installed vegetation. Letter verifying compliance with the

criteria is signed by one of the following: the landscape architect, a WaterStar or

WaterSense Certifier, a Florida Friendly Landscape representative, or a Master Gardener.

Resources: -

W4.05 Mulch (non-cypress) applied 3"-4" deep

Requirement: Apply 3-4" of mulch around plants and trees (extending out to drip line) and in

landscaped beds avoiding volcano mulching.

Points: 2

Intent: In addition to preventing weed growth, a thick layer of mulch will help retain soil

moisture, retard erosion, cool the soil surface, and reduce some soil pests. Mulching around trees also reduces damage from mowers and line trimmers. It is important to avoid volcano mulching (a cone of piled mulch placed around newly installed plants and trees). This practice can hold moisture against the tree and encourages rot in the trunk.

Submittals: Landscape plans and photos of installed mulched vegetation

Resources: http://fyn.ifas.ufl.edu/materials/FYN Handbook vSept09.pdf



Incorrect Volcano Mulching



Correct Installation



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W5 Water Conservation Certifications

W5.01 Meet or exceed Florida WaterStar ™ or WaterSense Standards

Requirement: Meet the WaterStar[™] or WaterSense certification program requirements.

Points: 5 points for Silver Level Certification

7 points for Gold Level Certification

Intent: Florida WaterStar™ is a voluntary, third-party certification program designed to increase

water efficiency in landscapes, irrigation systems and indoor uses. While many

certification programs provide general guidelines for water efficiency, Florida WaterStar™

specifically addresses uses relevant to Florida.

WaterSense® labeled new homes will combine WaterSense® labeled products with other

water-efficient fixtures and practices to reduce the amount of water used by

approximately 20 percent. Homes must meet criteria in three areas: indoor water use,

outdoor water use, and homeowner education.

Submittals: Copy of certificate

Resources: http://www.sjrwmd.com/floridawaterstar/index.html

www.epa.gov/watersense/

W5.02 Florida Friendly Landscape™ Program Certification

Requirement: Obtain Florida Friendly Landscaping™ Program New Construction Certification

Points: 2 points for Silver

3 points for Gold

Intent: Florida-Friendly Landscaping[™] offers a certification program for new construction

throughout the state. The new construction checklist for builders and developers for certification of Florida-Friendly Landscaping™ includes design criteria that help drive maintenance of landscapes in a Florida-Friendly way; that is through less use of irrigation, fertilizers and pesticides. The certification criteria embrace the nine principles of Florida-Friendly Landscaping™ which are: Right plant, right place; water efficiently; fertilize appropriately; mulch; attract wildlife; manage yard pests responsibly; recycle yard waste; reduce stormwater runoff; and protect the waterfront. Florida-Friendly Landscapes, as defined in 2009 Florida Statutes, Ch. 373, are landscapes which are: "...quality landscapes that conserve water, protect the environment, are adaptable to local conditions, and are drought tolerant." For more information, contact the county UF/IFAS Extension office.

Many of the criteria dovetail with other green certification programs.

Submittals: Copy of certificate

Resources: http://fyn.ifas.ufl.edu/materials/FYN_Handbook_vSept09.pdf

http://fyn.ifas.ufl.edu/

W6 Installed Irrigation

W6.01 Installed Irrigation

Requirement: Irrigation must comply with all of the following to achieve Installed Irrigation W6 credits.

To receive points for Installed Irrigation, each system must have the following features:



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- 1. Separate zones for turf and landscape beds multi program controller: It is recommended that the irrigation systems be calibrated to supply less than ¾" of water per zone, per application. The controller must be a multiple program controller that can divide the landscape into zones and operate the different zones for different lengths of time. The controller must have a battery backup to retain system settings and include a functioning rain sensor in an operable location as required by Florida Statute 373.62.
- 2. <u>High volume irrigation (>0.5gpm) does not exceed 60% of the landscape area:</u>
 Landscape zones requiring a high volume of water supplied by rotors or spray heads cannot exceed 60% of the landscape area.
- 3. <u>Head-to-head coverage for rotor/spray heads:</u> Many irrigation system designs incorporate spray/rotor head pattern overlap to ensure complete coverage. In order to minimize over watering in the overlap zone, one emitter's coverage pattern should not extend past adjacent emitters.
- 4. Micro-irrigation only in landscape beds and narrow areas: Landscape features other than turf can be watered much more efficiently by using micro-irrigation rather than sprayers and rotors. Equipment such as drip emitters, bubblers, micro-spray jets, and soaker hoses deliver water precisely where it is needed. In contrast, much of the water emitted from sprayers and rotors is blown away by wind or evaporates. In addition, narrow areas that are 4 ft. wide or less are difficult to irrigate effectively with rotor or spray heads, for most patterns are greater than 4 feet in diameter. Micro-irrigation is a better choice for irrigating narrow areas.
- 5. <u>Minimize overspray on impermeable surfaces:</u> The irrigation system must be visually inspected while operating to ensure that no irrigation water is directed to areas not intended to be watered (driveway, street, etc.). The system must also not direct water onto walls of the house.
- 6. In poor drainage (low) areas, heads are installed with check valves: Equipment with check valves must be used in some areas to prevent low pressure drainage. Low pressure drainage is a situation in which the system drains to the lowest head and resultant water flows onto or over adjacent property, non-irrigated areas, walks, roadways, or structures. Not only could this be a localized wet spot problem, but it also wastes the water that is in the zone piping each time the system runs. To help prevent this situation, heads with check valves need to be installed if there is over an 18-inch difference in elevation or if there is undulating terrain.
- 7. Provide building owner and FGBC with plan and instructions: The building owner and FGBC should receive a copy of as built plans, operating manuals, and warranties. The package should also include a general irrigation schedule with recommendations and instructions on modifying the schedule for local climatic and growing conditions. Each of the following items should be installed adjacent to the controller or in an easily accessible weather-protected area:
 - a. Controller handbook/operating instructions
 - b. Zone diagram
 - c. Specific zone application rates and maintenance run times
 - d. Soil moisture sensor probe location (when applicable)
- 8. <u>Irrigation heads have matched precipitation rates:</u> Matching precipitation rates allows for sprinklers with various arcs and radii to be included in the same zone and each deliver the same target application rate.



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9. **Pop-up sprinkler heads significantly rise about turf grass height:** If heads do not pop up sufficiently above turf, the uniformity of distribution will not be adequate and will result in poor coverage.

a. A minimum of 5-inch sprinkler heads for St. Augustine, Zoysia and Bahia grasses

b. A minimum of 4-inch sprinkler heads for centipede, Bermuda and seashore paspalum

Points: 10

Intent: Use water correctly to irrigate landscape only when necessary

Submittals: Irrigation system design drawing as installed and irrigation schedule.

Resources: http://www.sjrwmd.com/floridawaterstar/index.html and Florida Friendly Best

Management Practices for Protection of Water Resources by the Green Industries,

http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/grn-ind-bmp-en-12-2008.pdf

W 6.02 Micro-irrigation (irrigation with a maximum application rate of 0.5 gallons per minute) used and irrigated to FGBC Standard

Requirement: All irrigation must be micro irrigation, system must include a rain sensor and controller,

and the owner must be provided with the irrigation plan, management plan and

instructions.

Points: 3

Intent: Reduce water used for irrigation

Submittals: Copy of the irrigation design, and photos of installed irrigation.

Resources: -

W 6.03 No Permanent in-Ground Irrigation System

Requirement: No permanent or no in ground irrigation system is installed.

Points: 10 points no permanent

15 points no irrigation

Intent: The most effective outdoor water conservation strategy to employ is to design the

landscape in such a way that it exists primarily on natural rainfall, and no permanent irrigation system is required. A temporary irrigation system may be set up during

establishment.

Submittals: Provide a signed letter from the project owner.

Resources: N/A

W 6.04 Advanced Irrigation Control Systems

Requirement: Install irrigation control systems that are controlled by Soil moisture sensors or other

WaterSense weather-based Wi-Fi enabled irrigation controllers at both the ground level

and amenity decks with irrigation.

Points: 2

Intent: FGBC encourages innovative technologies to conserve water. Recent technologies such as

soil moisture sensors or weather-based controllers are ways of conserving irrigation

water



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Submittals: Cut sheet of sensor and photos of innovative equipment.

Resources: -

W7 Water Source Conservation

W 7.01 Reclaimed Water for Irrigation

Requirement: Irrigation uses non potable water, is metered and fee structure is based on volume used.

Points: 1-4

2 points: All irrigation using non potable water1 point: Meter on reclaimed irrigation system1 point: Volume-based pricing arrangement

Intent: Reduce potable water used for irrigation

Submittals: Construction drawings details showing reuse water supply and meter(s). Provide fee

structure from entity supplying reuse water.

Resources: -



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CATEGORY 4: SITE

S Prerequisite 1: Stormwater Pollution Prevention Plan (SWPPP) and Florida Department of Environmental Protection (FDEP) Notice of Intent (NOI) onsite

Requirement: Keep copy of SWPPP & FDEP National Pollutant Discharge Elimination System (NPDES)

Notice of Intent (NOI) onsite for contractor to implement & maintain SWPPP Best Management Practices (BMP) as designed by civil engineer or SWPPP designer. For projects less than 1 acre, implement SWPPP on site as designed by the project Civil

Engineer.

Points: Prerequisite - Required

Intent: Reduce the quantity and improve the quality of stormwater discharge that leaves the

jobsite.

Submittals: Details of stormwater pollution prevention plan and photos of installed stormwater

pollution prevention measures.

Resources: -

S1 FDEP Professional

Requirement: The general contractor has on staff or contracts with a FDEP Certified Erosion and

Sedimentation Control Professional (Tier 2).

Points: 3

Intent: Increase the proper design, construction, and maintenance of erosion and sediment

control during construction to assure the proper long-term operation and maintenance of

stormwater systems after construction is complete.

Submittals: Name of Certified FDEP Professional and a copy of the page of the permit application

identifying the FDEP individual and their contact information.

Resources: www.dep.state.fl.us/water/nonpoint/erosion.htm

S2 Site Selection

S2.01 Select Appropriate Site

Requirement: Do not develop buildings, roads, or parking areas on portions of sites that meet any one of the following criteria:

- Prime farmland as defined by the United States Department of Agriculture.
- Land which elevation is lower than 5 feet above the elevation of the 100-year flood as defined by FEMA.
- Land that is specifically identified as habitat for any species on Federal or State threatened or endangered lists.
- Within 100 feet of any water including wetlands as defined by 40 CFR, Parts 230-233 and Part 22, and isolated wetland or areas of special concern identified by state or local rule OR greater than distances given in state or local regulations as defined by local or state rule or law, whichever is more stringent.



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Land which prior to acquisition for the project was public parkland, unless land of equal or greater value as parkland is accepted in trade by the public landowner (Park Authority projects are exempt).

Points: 1

Intent: Avoid development of environmentally sensitive sites.

Submittals: Provide a site plan, in context, so the credit criteria may be verified and a letter from the

building owner or civil engineer confirming site as appropriate.

Resources: -

S2.02 Urban Growth Boundary

Requirement: Locate building on a site that is located inside the designated Urban Growth Boundary

Points: 1

Intent: Reduce the need for additional infrastructure to service the building.

Submittals: Map of Urban Growth Boundary with project site identified.

Resources: Local Government Website – Planning Department

S2.03 Permit Ready Site

Requirement: Locate building on a site that is listed as "Permit Ready" and designated by local

government as preferred growth area. Sites such as:

- 1. Parcels on a master concept plan designated for future use
- 2. EPA National Priorities List, Federal Empowerment Zones
- **3.** Federal Enterprise Communities
- **4.** Department of Treasury Community Financial Institutions Fund Qualified Low-income Communities
- **5.** U.S. Department of Housing and Urban Development Qualified Census Tract (QCT) or Difficult Development Areas (DDA)

Points: 1

Intent: Respect the municipal governments planning for development.

Submittals: Letter from the local government indicating that the site is "permit ready" or a preferred

site targeted for development.

Resources: Local Government Website – Planning Department

S2.04 Greyfield/Redevelopment of an existing site

Requirement: Locate the building on a site that has existing hardscape or other structure that must be

replaced. To achieve this credit, the site must have utility connections available within

1/8-mile boundary.

Points: 3

Intent: Encourage redevelopment, increase density, and reduce the need for additional

infrastructure.

Submittals: Copy of a site plan with the existing conditions at the time of permit application. Copy of

Civil demolition plan



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Resources: Many economic development boards have a list of existing sites ready for redevelopment.

S2.05 Brownfield Redevelopment

Requirement: Development of any EPA or Federal/State/Local Government Classified Brownfield and

provide remediation as required by EPA's Sustainable Redevelopment of Brownfields

Program.

Points: 5 points for site (soil and groundwater) contamination

Intent: Rehabilitate and use damaged sites

Submittals: Provide a copy of the Phase II Environmental Site Assessment OR a letter from a local,

state or federal regulatory agency confirming that the site is classified as a brownfield.

Resources: http://epa.gov/brownfields/

S2.06 Access to Public Transportation

Requirement: Site is located within 1/2 mile of an existing or funded rail node OR within 1/4 mile of at

least 1 active bus stop (this must be measured as a safe walk).

Points: 2-4

2 Points: 60 weekday and 40 weekend trips3 Points: 76 weekday and 50 weekend trips4 Points: 100 weekday and 65 weekend trips

Intent: Reduce traffic, greenhouse gas emissions, need to expand roadways and overall pollution

from automobile use.

Submittals: Regional/Local drawing or transit map highlighting the building location and the fixed rail

stations and bus lines and indicate the distances between them. Include a scale bar for

distance measurement.

Resources: Local jurisdiction website.

S2.07 Adjacent to dense residential development

Requirement: Locate the building on a site that is within 1 mile of residential developments with the

minimum density of 20 units per acre (this can be measured as the crow flies). Buildings that integrate residential units at a density of 20 dwelling units per acre also qualify for

this credit.

Points: 1

Intent: Locate commercial buildings close to densely populated areas to reduce vehicle miles

traveled.

Submittals: Area map that identifies adjacent properties, their use, and the building site.

Resources: -

S2.08 Access to Basic Services

Requirement: Locate the building on a site that is within 1/2 mile of and has safe and walkable access to

basic services (this can be measured as the crow flies). Each type of service may only be counted once, i.e. if there are 3 banks, for the purposes of this checklist that is equal to

ONE service. Services include:



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Arts and entertainment center	Local Government Facility			
Bank	Medical or dental office			
Beauty Shop	Pharmacy			
Bike Share Station	Place of worship			
Civic Center	Police station			
Community Center	Post office			
Convenience store	Restaurant			
Daycare center	School			
Dry Cleaners	Senior Care Facility			
Fire station	Supermarket			
Fitness center or gym	Theater			
Laundromat	Unique Service not stated in list			
Library	Other Neighborhood-serving retail			
Other office building or major employment center				

Points: 1 point awarded for each 3 unique services

Intent: Reduce vehicle miles traveled by locating building close to basic services.

Submittals: Aerial context map with building location, and location and type of basic services within ½

mile.

Resources: -

S3 Site Enhancement

S3.01 Wetland Protection and Enhancement

Requirement: Sites located within 100 feet of wetlands shall restore the wetland and provide a

minimum of a 25-foot buffer of uplands that include native vegetation, no irrigation, and

signs indicating that the area is a restored natural area.

Points: 2

Intent: Minimize the impact and restore the wetlands.

Submittals: Site map identifying wetlands, plant list and restoration plan, delineating 25' upland

buffer and showing that no irrigation will be installed within the 25' upland buffer.

Resources: -

S3.02 Minimize Site Disturbance

Requirement: Limit site disturbance to a maximum of 40 feet beyond the building footprint and 25 feet

beyond any parking or site amenity.

Points: 1

Intent: Minimize site disturbance.

Submittals: Copy of project site indicating building footprint, parking and amenities that includes the

limits of construction activities and the site boundary

Resources: -



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S3.03 Site Open Space

Requirement: Exceed minimum zoning requirements for open space by 25%. Stormwater

retention/detention areas may be included in the open space calculations if they are specifically designed for dual use/function, for example, recreation areas that function as dry detention may be included in the calculation. Earn additional points for shaded open space: a minimum of 50% of the open space must be shaded by structures or vegetation

within 10 years.

Points: 2 points: Increased Open Space

4 points: Increased Shaded Open Space

Intent: Provide natural open space with shade to reduce the heat islands around the building,

provide building occupants with outdoor spaces, and enhance the environment with

trees.

Submittals: Provide a site plan with the building footprint, square footage of building footprint (or a

copy of the local zoning open space requirements) that shows the designated open space and landscape plan. If claiming shaded area using trees, also provide a list of trees and

their projected canopies after 10 years.

Resources: -

S3.04 Sidewalks

Requirement: Provide sidewalks for all paths marked for use by the building occupants. Sidewalks shall

be a minimum of 5' wide (unless connecting to a sidewalk of different width), stable, firm,

slip-resistant materials.

Points: 1

Intent: Improve the walkability and safety of the site.

Submittals: Site plan showing sidewalks and photos of completed installed sidewalks.

Resources: -

S3.05 Connectivity

Requirement: Provide connections to adjacent sites via sidewalks, bike paths, and trails. A minimum of

a 2-mile radius of connectivity must be provided to claim this credit.

Points: 1

Intent: Improve the connectivity of the community and encourage pedestrian and bike traffic.

Submittals: Site plan showing connections and trails. Include photos of completed site identifying

connectivity features.

Resources: -

S4 Reduce Heat Islands – Hardscape

S4.01 Parking Capacity

Requirement: Pursue parking reduction via waiver, variance, or shared parking agreement. Parking

quantity required must be less than the base parking ratio calculation.



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Points: 1-3

point: Provide less parking than required by the base parking ratio calculation.
 point: Enter into a shared parking use agreement with surrounding properties.
 points: Provide 5% less parking than required by the base parking ratio calculation.
 points: Provide 10% less parking than required by the base parking ratio calculation.

Intent: Reduce areas that may be impervious, create heat islands, or discourage use of

multimodal transportation. Design team must work with the local jurisdiction to reduce

the typically required parking by proposing shared parking or other multimodal

transportation methods.

Submittals: Provide a calculation of the zoning required parking spaces, a letter from the local

jurisdiction indicating the projects parking requirements and a site plan with a total

parking count.

Resources: -

S4.02 Under Building or Structured Parking

Requirement: A minimum of 50% of the space under the building shall be used for parking.

Points: 3

Intent: Reduce heat islands, reduce impervious surface, and raise the finish floor elevation (FFE)

for disaster mitigation.

Submittals: Provide construction drawings and photos of structured parking.

Resources: -

S4.03 Shaded, Covered or High Albedo Hardscape

Requirement: Shade, cover or use high albedo hardscape for a minimum of 40% of the site hardscape.

For the purpose of this credit site hardscape includes roads, sidewalks, courtyards, amenity decks, and parking lots. Areas square footage that may be included in this calculation are hardscape shading by trees within 10 years, structures with roof materials with an SRI \geq 78 or an LRV \geq 50, structured parking or hardscape with an SRI > 35. The building footprint, i.e., square footage of roof is NOT considered hardscape unless used as a rooftop terrace amenity. Hardscape shaded by photovoltaic panels or other systems that are generating electricity can be included in the shade square footage calculation and

are exempt from meeting the SRI ≥ 78 requirement.

Points: 2 points: 40% hardscape coverage

3 points: 60% hardscape coverage 4 points: 80% hardscape coverage

Intent: Reduce heat islands of the developed site.

Submittals: Provide a site plan identifying all the site features and hardscape quantities. Provide

approved submittals and photos of hardscape materials and photos of installed

hardscape.

Resources: -



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S4.04 Compact or Automated Parking

Requirement: Incorporate lifts, elevators, or valet parking to reduce the structure required to support

the parking demands of the high rise. Earn 1 point if a minimum of 10% of the total parking spaces provided are stack parking, elevators, or lifts. Earn 2 points for 20% and 3 points for 30%. Three points are also available if the project has 100% valet parking.

Points: 1-3

1 point: ≥ 10% stacked parking 2 points: ≥ 20% stacked parking 3 points: ≥ 30% stacked parking 3 points: 100% Valet Parking

Intent: Minimize the site footprint of construction materials associated with on-site parking

Submittals: Detail and description of plan and system

Resources:

S4.05 Alternative Fuel Vehicles

Requirement: Provide preferred parking and or accommodations based on the requirements listed

below, for alternative fuel, hybrid, high capacity or electrical vehicle. Points are available based on the percentage of preferred parking and type of accommodations installed.

Points: 1 - 4

1 point: 3% of the total parking spaces provided are designated for alternative

fuel, hybrid, high capacity or electrical vehicle

1 point: 10% of the total parking spaces are designed and constructed to include

conduit and dedicated electrical capacity that will allow for non-invasive

installation of electric chargers at a future date

2 points: 1.5% of the total parking spaces provided are designated for electrical

vehicle charging. Provide a minimum of one 220-volt 40 Amp outlet at

each parking space

3 points: 3% of the total parking spaces provided are designated for electrical

vehicle charging. Provide a minimum of one 220-volt 40 Amp outlet at

each parking space

Intent: Reduce pollution and land development impacts from automobile use.

Submittals: Plan identifying location of preferred parking, description of charging apparatus and

photos of installed equipment

Resources: -

S5 Reduce Heat Islands - Roof

Requirement: To qualify for this credit, the roof materials must be Energy Star, have a SRI >= 60 or be a

vegetated roof structure. If vegetated, the vegetated roof must have a minimum of 80% Florida friendly low water vegetation installed. One point is awarded for each 20% of roof

area that is reflective, vegetated, or shaded by solar electric devices.



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Points: 1-4

1 point: ≥ 20% and < 40% Energy Star, reflective or vegetated roof
 2 points: ≥ 40% and < 60% Energy Star, reflective or vegetated roof
 3 points: ≥ 60% and < 80% Energy Star, reflective or vegetated roof

4 points: ≥ 80% Energy Star, reflective or vegetated roof

Intent: Reduce heat island effect of site development.

Submittals: Provide a roof drawing with area calculations, signed approved submittal of roof materials

and photos of installed roofing where possible.

Resources: -

S6 Reduce Heat Islands - Building

Requirement: To qualify for this credit, a minimum of 20% of the exterior wall surface area minus the

glazing must have an LRV or SRI \geq 60 for stucco and painted all finishes, an SRI \geq 29 for metal and vinyl. Natural and man-made stone products must be light in color and comparable to LRV \geq 60 paint. If a documented reflectivity is not available, this credit

may only be awarded to "white" or "off white" finishes.

Points: 1 point ≥ 20% and < 40% reflectant or shaded exterior wall

2 points ≥ 40% and < 60% reflectant or shaded exterior wall 3 points ≥ 60% and < 80% reflectant or shaded exterior wall

4 points ≥ 80% reflectant or shaded exterior wall

Intent: Reduce heat island effect of site development and vertical construction.

Submittals: Provide a cut sheet of the exterior wall coating/paint, shading calculations, and photos of

building exterior.

References: www.sherwin-williams.com/architects-specifiers-designers/specs-and-green-solutions/

www.texcote.com/specs.php

S7 Stormwater

S7.01 Less than 10 acres, less than 2 acres of impact (<10<2)

Requirement: Increase the quality of stormwater discharge. One point is available for each 50%

improvement in water quality as calculated by the project civil engineer.

Points: 1 point ≥ 50% and < 100% increase in water quality

2 points ≥ 100% and < 150% increase in water quality

3 points ≥ 150% increase in water quality

Intent: Improve natural waterways by minimizing stormwater run-off contaminants.

Submittals: Civil Engineer stormwater calculations.

References:



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S7.02 Standard General

Requirement: Increase the quality of stormwater discharge. One point is available for a 50% increase in

water quality and a maximum 85% predevelopment discharge. One additional point is

available for each 10% decrease in predevelopment discharge.

Points: 1 point ≥ 50% increase in water quality, ≤ 85% and > 75% predevelopment discharge

2 points ≥ 50% increase in water quality, ≤ 75% and > 65% predevelopment discharge

3 points ≥ 50% increase in water quality, ≤ 65% predevelopment discharge

Intent:

Submittals: Civil Engineering stormwater calculations and narrative explaining how the design

improves the water quality

References:

S7.03 Treat Stormwater from adjacent sites

Requirement: Collect and treat stormwater from adjacent properties to assist in controlling both the

quantity and quality of stormwater in the community. Earn one point for each additional

10% of stormwater volume the project site can retain and treat.

Points: 1 point Collect and treat an additional 10% to < 20%

2 points Collect and treat an additional 20% to < 30% 3 points Collect and treat an additional 30% or more

Intent: Improve the quality of natural waterways by improving the quality of and reducing the

quantity of stormwater discharge.

Submittals: Civil Engineering stormwater calculations and narrative indicating quantity and treatment

of stormwater collected from adjacent sites.

Resources: -

S7.04 Littoral Vegetation of Manmade Stormwater Detention

Requirement: Littoral zone of man-made stormwater detention basins that function as wet ponds shall

have a minimum of 50% of the pond bank vegetated with native wetland plants of diverse species in appropriate locations for the vegetation type. To create this

landscaped littoral shelf, the slope between the normal water level elevation and three feet below the normal water level elevation should be no greater than 6:1. Earn one point for 50% of pond bank coverage and earn an additional point for each additional

25% of pond bank coverage.

Points: 1 point ≥ 50% and < 75% of pond bank planted with littorals

2 points ≥ 75% and < 100% of pond bank planted with littorals

3 points 100% of pond bank planted with littorals

Intent: Improve stormwater quality, littoral vegetation reduces the amount and proximity of sod

which also reduces the amount of pesticides and fertilizers that enter our waterways.

Submittals: Plant list, detention pond design and photos of final installed stormwater system.

References: -



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S7.05 Pervious Hardscape

Requirement: Install pervious hardscape for a minimum of 25% of the site. Site hardscape includes

roads, sidewalks, courtyards, and parking lots. Hardscape may be porous pavers (open grid pavers) or permeable pavement (minimum percolation rate of 2 gal/min/SF and a

minimum of 6 inches of open graded base below.

Points: 1 point ≥ 25% and < 50% pervious hardscape installed

2 points ≥ 50% and < 75% pervious hardscape installed

3 points ≥ 75% pervious hardscape installed

Intent: Improve quality of stormwater discharge and allow groundwater recharge.

Submittals: Site drawing with pervious hardscape identified, approved submittal of hardscape

materials, percolation calculation and photos of installed hardscape.

References:

S7.06 Alternative Stormwater Detention

Requirement: Uses Low Impact Development (LID) alternatives to collect and treat stormwater.

Alternative systems that qualify include rain gardens, bio-retention filtration systems, infiltration trenches, and vegetated roofing. A minimum of 50% of the stormwater collection and treatment must use the low impact development treatment system to achieve this credit. Earn one point if 50% of the site stormwater is collected using low LID techniques. Earn an additional point for each additional 25% of total site stormwater that

is collected using LID techniques.

Points: 1 point ≥ 50% and < 75% of stormwater is collected using LID techniques

2 points ≥ 75% and < 100% of stormwater is collected using LID techniques

3 points 100% of stormwater is collected using LID techniques

Intent: Improve quality of natural waterways and stormwater discharge.

Submittals: Site design, stormwater calculations, construction details of low impact development

designs and photos of final installed stormwater system.

Resources: -

S8 Vehicular Transportation Alternatives

S8.01 Bicycle Storage

Requirement: Project must provide securing locations for minimum of 2 bicyclers (1 bike rack) or 1 bike

rack per 5,000 square feet of retail and 5,000 SF of commercial.

Points: 2

Intent: Encourage transportation alternatives to the automobile.

Submittals: Site plan identifying bike racks and cut sheet of bike racks selected.

Resources: -



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S8.02 Changing Rooms

Requirement: Project must provide a minimum of 1 changing room per 25,000 SF of building. Single

bathrooms may qualify, gang style bathrooms do not.

Points: 1

Intent: Provide a location for individuals walking or biking to work to change.

Submittals: Floor plan that identifies changing room.

Resources: -

S8.03 Showering Facility

Requirement: Full time occupants have access to a shower facility, free of charge, located on site or in

an immediately adjacent facility (within 200 yards). If the showers are located on site,

one shower for each 5% full time equivalent employee.

Points: 1

Intent: Provide a location for individuals walking or biking to work to change.

Submittals: Floor plan that identifies the showers.

Resources: -

S9 Exterior Lighting (not attached to building)

S9.01 Meets Dark Sky Requirements

Requirement: Design exterior lighting such that all exterior luminaires with more than 1000 initial lamp

lumens are shielded and all luminaires with more than 3500 initial lamp lumens meet the Full Cutoff IESNA Classification. If the bulb exceeds 26W the lights shall be full cut off luminaires so that no light or brightness from those luminaires crosses the property

boundary.

Points: 1

Intent: Eliminate light trespass from the building and site, improve night sky access and reduce

development impact on nocturnal environments.

Submittals: Provide signed approved submittal and photos of installed lighting

Resources: -

S9.02 Lights Provide >100 lumens/watt

Requirement: Exterior lighting fixtures selected provide a minimum of 100 lumens/watt.

Points: 1

Intent: Provide lighting while reducing energy consumption.

Submittals: Provide signed approved submittal and photos of installed lighting.

Resources: -

S9.03 Lights are Solar Powered

Requirement: Exterior lighting fixtures are equipped with solar panels. Site design and landscape design

allow for maximum solar collection over the life of the PV's. Collectors must remain

unobstructed from shade from trees (within the site boundaries) for 15 years



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Points: 1 point for 50% of site lighting

2 points for 70% of site lighting 3 points for 90% of site lighting

Intent: Provide exterior lighting while reducing energy consumption.

Submittals: Cut sheets of lighting fixtures selected and a copy of the landscape plan that indicates

mature growth does not obstruct lights.

Resources: -

S9.04 Exterior lighting is on timers or daylight sensors

Requirement: A minimum of 50% of the installed exterior lighting in controlled by timers or daylight

sensors

Points: 1

Intent: Reduce energy consumption from lighting by installing sensors that automatically dim

artificial lighting in daylight or are set to an automatic timer and are daylight hours.

Submittals: Provide approved submittal of sensors or timer or lighting submittal indicting sensors are

integral to lights. Include Site plan with location of daylight/motion sensors. Provide

photos of installed sensors and installed lighting.



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CATEGORY 5: HEALTH

H Prerequisite 1: Environmental Tobacco Smoke (ETS) Control

Requirement: No smoking allowed in the building. If smoking is allowed on the site, designated smoking

areas must be located a minimum of 25 feet away from all doors, operable windows, HVAC equipment, and fresh air intakes. **No smoking signs must be installed at all main building entrances.** No smoking campuses and no smoking buildings also comply with

this prerequisite

Points: Prerequisite - Required

Intent: Prevent exposure of building occupants and systems to Environmental Tobacco Smoke

(ETS).

Submittals: Photos of no smoking signs installed at all main building entrances are required. If

smoking is allowed on the site, please provide dimensioned site plan indicating designated smoking area indicating the distances to doors and intakes. If no smoking

campus or building, please provide the written policy.

Resources: -

H Prerequisite 2: Indoor Air Quality (IAQ) Management Plan, During Construction

Requirement: Indoor Environmental Quality shall be protected during construction according to the

Sheet Metal & Air Conditioning Contractors' National Association (SMACNA) guidelines

for occupied buildings under construction.

Points: Prerequisite - Required

Intent: Prevent indoor air quality problems resulting from the construction/renovation process in

order to help sustain the long-term health, comfort and well-being of construction

workers and building occupants.

Submittals: Provide copy of the specifications indicating use of SMACNA guidelines, a copy of the

written Indoor Air Quality Management (IAQ) Plan and photos of the IAQ procedures in

place during construction.

Resources: -

H1 Protect, Monitor, & Remediate Poor IAQ

H1.01 Carbon Dioxide

Requirement: Systems shall be designed to monitor carbon dioxide (CO2) within the building and

activate an audible alarm w/ corrective action plan such that mechanical air conditioning

system can introduce treated fresh air as needed.

Points: 1

Intent: Provide capacity for indoor air quality (IAQ) monitoring to help sustain long-term

occupant health, comfort and well-being.

Submittals: Provide copy of approved submittal of equipment provided, plans indicating installed

locations. Mechanical engineer may provide a brief narrative indicating system design

and function.



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H1.02 Humidity Monitoring & Control

Requirement: Systems shall be designed to monitor humidity within the building and activate an audible

alarm w/ corrective action plan. System installed to control building humidity such as a desiccant system, enthalpy wheel, heat pipes, or dual path system. The dehumidification

system shall be a centrally located and permanent.

Points: 5

Intent: Reduce relative humidity inside the building to improve the indoor environment

Submittals: Provide a copy of the signed approved submittal of the equipment used for

dehumidification. The mechanical engineer must provide calculations and narrative describing the removal of latent heat and humidity range that will be maintained by the

system.

Resources: -

H1.03 Building Entrance – Outdoor Pollutants

Requirement: Project shall employ measures such as permanent walk-off grates or mats located at the

building main entrance to reduce pollutant contamination of the building entrances. If mats are used, the mats must be, at a minimum, the width of the door and 4 feet in the line of travel. Mats may be placed inside or outside the building entrance, however if placed outside the mat must be under appropriate cover. A maintenance plan must be

included to maintain the integrity of the installed system.

Points: 1

Intent: Improve the indoor environmental quality by reducing the amount of pollutants brought

inside the building by foot traffic.

Submittals: Provide construction detail of the system installed and photos or photos of installed mats

and a copy of the maintenance plan/contract.

Resources: -

H1.04 Building Entrance – Covered Entrance

Requirement: Main entrance of the building shall be covered with no less than 50 square feet of roof to

protect entrance from rain. 1 point is available for a covered entrance; 2 points are available if there is a covered path from parking to the main entrance or a porte cochere

at the main entrance.

Points: 1 point 50 SF minimum of covered entrance

2 points 50 SF minimum covered entrance covered path from parking to main

entrance or porte cochere.

Intent: Protect the building from water intrusion from rain and provide a protected path for

building occupants.

Submittals: Provide a copy of the dimensioned plan indicating the covered entrance, the square

footage of the entrance cover and photos of the entrance.



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H1.05 High Efficiency Air Filtration System

H1.05.01 Common Areas

Requirement: Design a mechanical ventilation system to include improved air filtration.

Points: 1-6

1 point: Install MERV 8 Air Filters During Construction

1 point: Install MERV 8 Air Filters Pre-Occupancy

2 points: Install MERV 13 Air Filters During Construction

2 points: Install MERV 13 Air Filters Pre-Occupancy

2 Points: Equip air conditioning systems with UV lights

Intent: Provide improved indoor air quality.

Submittals: Cut sheet of air filter system.

Resources:

H1.05.02 Tenant Spaces

Requirement: Design a mechanical ventilation system to include improved air filtration.

Points: 1-6

1 point: Install MERV 8 Air Filters During Construction

1 point: Install MERV 8 Air Filters Pre-Occupancy

2 points: Install MERV 13 Air Filters During Construction

2 points: Install MERV 13 Air Filters Pre-Occupancy

2 Points: Equip air conditioning systems with UV lights

Intent: Provide improved indoor air quality.

Submittals: Cut sheet of air filter system.

Resources:

H1.06 Chemical and Cleaning Product Storage

Requirement: Any room(s) containing chemicals or cleaning products for building O&M is ventilated at a

minimum of 0.5 cfm per square foot creating negative pressure with respect to the building. The room must also have a door installed that will automatically close. The

deck-to-deck partition must be sealed.

Points: 1

Intent: Provide for the effective delivery and mixing of fresh air to support the health, safety,

comfort, and well-being of building occupants.

Submittals: Provide for the effective delivery and mixing of fresh air to support the health, safety,

comfort, and well-being of building occupants



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H1.07 Radon Mitigation

Requirement: Install a passive or active system as needed for your building location to mitigate for

radon.

Points: 1

Intent: Improve the indoor environment

Submittals: Construction detail and photos of installed system

Resources: -

H1.08 Pre-Occupancy IAQ testing

Requirement: Perform IAQ testing over a minimum 4-hour period for a minimum of at least one (1) test

per 25,000 s.f. within the breathing zone, which is between 3'0" and 6' 0" above the finished floor. Test and remediate building prior to occupancy using procedure consistent with the United States Environmental Protection Agency's current *Protocol for*

Environmental Requirements, Baseline IAQ and Materials, for the Research Triangle Park

Campus, Section 01445.

Test for the following contaminants and maximum concentration:

Contaminant	Maximum Concentration
Formaldehyde	50 parts per billion
Particulates (PM10)	50 micrograms per cubic meter
Total Volatile Organic Compounds (TVOC)	500 micrograms per cubic meter
* 4-Phenylcyclohexene (4-PCH)	6.5 micrograms per cubic meter
Carbon Monoxide (CO)	9 parts per million and no greater than 2 parts per million above outdoor levels.

^{*}This test is only required if carpets and fabrics with styrene butadiene rubber (SBR)

latex backing material are installed as part of the base building systems.

Points: 1

Intent: Provide the Owner with the option to test indoor air quality prior to occupancy.

Submittals: Copy of the IAQ testing results indicating that the maximum chemical contaminant

concentration requirements are not exceeded.

Resources: -

H2 Low Emitting Materials

H2.01 Adhesives and Sealants

Requirement: All Adhesives and Sealants shall be low Volatile Organic Compound (VOC) and meet the

VOC limits below which were established by the South Coast Air Quality Management District (SCAQMD) Rule #1168 or CDPH STD Method V1.1 AND all sealants used as fillers must meet or exceed the requirements of the Bay Area Air Quality Management District

Regulation 8, Rule 51.



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VOC Limit, Less Water and Less Exempt Compounds in Grams per Liter

Architectural Applications	Current VOC Limi
Indoor Carpet Adhesives	50
Carpet Pad Adhesives	50
Outdoor Carpet Adhesives	150
Wood Flooring Adhesive	100
Rubber Floor Adhesives	60
Subfloor Adhesives	50
Ceramic Tile Adhesives	65
VCT and Asphalt Tile Adhesives	50
Dry Wall and Panel Adhesives	50
Cove Base Adhesives	50
Multipurpose Construction Adhesi	ves 70
Structural Glazing Adhesives	100
Single Ply Roof Membrane Adhesiv	es 250

Points: 1

Intent: Improve indoor air quality by minimizing the VOC's used during the construction process.

Submittals: Contractor shall maintain all Material Safety Data Sheet (MSDS) highlighting the stated

VOC emissions for each adhesive and sealant used in the building.

Resources: http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

H2.02 Paints & Coatings

Requirement: Interior paints and coatings shall be less than 100 g/l for non-flat paint and less than 50

g/l for flat paint.

For additional architectural coating VOC limits please refer to SCAQMD Rule 1113 or CARB

2007 SCM.

Points: 1

Intent: Improve indoor air quality by minimizing the VOC's used during the construction process.

Submittals: Provide signed approved submittal for paints and coatings. Contractor shall maintain all

Material Safety Data Sheet (MSDS) highlighting the stated VOC emissions for each

adhesive and sealant used in the building.

Resources:

http://www.greenseal.org/FindGreenSealProductsandServices/Products.aspx?vid=ViewPr

oductDetail&cid=10

H2.03 Carpet Systems

Requirement: All carpet and carpet products shall meet the Carpet & Rug Institute Green Label or Green

Label Plus Certification Program.

Points: 1 point: Green Label

2 points: Green Label Plus

Intent: Reduce the quantity of indoor air contaminants that are odorous, potentially irritating

and/or harmful to the health, comfort and well-being of installers and occupants.



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Submittals: Provide signed approved submittal and photos of installed carpet

Resources: http://www.carpet-rug.org/commercial-customers/green-building-and-the-

environment/green-building-standards.cfm

H2.04 Healthy Flooring

Requirement: 80% of a minimum of the flooring installed shall be classified as hard or resilient and

comply with GreenGuard, Floorscore, Declare, RED LIST FREE, Cradle to Cradle, Blue

Angel, Greenhealth or similar health related certification.

Points: 1

Intent: Provide signed approved submittal for installed flooring and photos of final installed

flooring.

Submittals: Cut sheets of flooring selections.

Resources: http://www.greenguard.org/

H2.05 Composite Wood and Agrifiber

Requirement: All composite wood and agrifiber products that are ultra-low emitting formaldehyde

(ULEF) or are no added urea formaldehyde (NAUF).

Points: 1

Intent: Reduce the quantity of indoor air contaminants that are odorous, potentially irritating

and/or harmful to the health, comfort and well-being of installers and occupants.

Submittals: Provide signed approved submittal for installed products and manufacturers catalog cut

sheet for each composite wood or agrifiber product used in the building indicating that the bonding agent used in each product contains no added urea-formaldehyde. Also

provide photos of installed wood and agrifiber products.

Resources: -

H2.06 Insulation

Requirement: Use healthy insulation products

Points: 1 point: Formaldehyde free

2 points: GreenGuard

3 points: GreenGuard Gold or Biobased Insulations

Intent: Reduce the quantity of indoor air contaminants that are odorous, potentially irritating

and/or harmful to the health, comfort and well-being of installers and occupants.

Submittals: Provide signed approved submittal for insulation materials and manufacturers catalog cut

sheet for each insulation product used in the building indicating that it contains no

formaldehyde.

Resources: greenguard.org



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H2.07 Green Cleaning - Environmentally Friendly Maintenance - Green Cleaning Products in Common Areas

Requirement: Owner shall maintain or contract a cleaning service to maintain the property using only

non-toxic cleaning supplies in the regular maintenance of the building. A list of approved supplies must be posted in janitor closets and in common areas such as break rooms and restrooms. Non-Toxic is defined as having a zero Health Hazard rating on the product's Material Safety Data Sheet (MSDS) and listed as "non-toxic" for Acute Toxicity under "Section V - Health Information" on the MSDS. Alternatively, the products may be

approved by the EPA's Design for Environment program or Green Seal.

Points: 2

Intent: Reduce the amount of harmful chemicals used in the maintenance operations of the

building

Submittals: Provide a list of approved cleaning products for the building **Resources:** http://www.epa.gov/dfe/pubs/projects/formulat/formpart.htm

http://www.greenseal.org/FindGreenSealProductsandServices.aspx?vid=ViewProductDet

ail&cid=16

H2.08 Furniture Fixtures and Equipment

Requirement: Purchase furniture certified by Greenguard Certified, Greenguard Gold Certified, Cradle to

Cradle Certified™ Silver, Business plus Institutional Furniture Manufacturers Association

(BIFMA) level™ or other similar program

Points: 2

Intent: Reduce the amount of harmful chemicals introduced while furnishing the project

Submittals: Provide documentation of furniture purchased and furniture certification

Resources:

H3 System Control

H3.01 Lighting

Requirement: A minimum of 25% of the full-time occupants must be able to directly control their

individual lighting either through ambient or task lighting. One additional point is available for each additional 25% of full-time occupants that can control their lighting.

Points: 1 point ≥ 25% and < 50% of full-time occupants can control individual lighting

2 points ≥ 50% and < 75% of full-time occupants can control individual lighting 3 points ≥ 75% and < 90% of full-time occupants can control individual lighting

4 points 90% of full-time occupants can control individual lighting

Intent: Increase occupant comfort and productivity by providing individual control over building

occupant workspaces.

Submittals: Provide the building floorplan indicating lighting controls, a narrative explaining how

occupants can control their immediate environment and cut sheets of lighting selections.



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H3.02 Thermal Comfort

Requirement: A minimum of 25% of the full-time occupants must be able to directly control their

temperature settings for thermal comfort. One additional point is available for each additional 25% of full-time occupants that have control over their thermal comfort settings. Comply with ASHRAE Standard 55-1992, Addenda 1995, for thermal comfort standards including humidity control within established ranges per climate zone. Projects must employ both thermal and humidity control measures and systems to keep the space

within the designated ranges specified by ASHRAE 55-1992.

Points: 1 point ≥ 25% & < 50% of full-time occupants can control temperature settings

2 points ≥ 50% & < 75% of full-time occupants can control temperature settings 3 points ≥ 75% & 90% of full-time occupants can control temperature settings

4 points 90% of full-time occupants can control temperature settings

Intent: Increase occupant comfort and productivity by providing individual control over building

occupant workspaces.

Submittals: Provide a narrative from the mechanical engineer explaining how the project complies

with ASHRAE Standard 55-1992, Addenda 1995.

Resources: -

H4 Productive Work Environment

H4.01 Daylighting

Requirement: Simulation: D

Simulation: Demonstrate, through computer simulation, that a minimum daylight illumination level of 25 footcandles (or 250 lux) at 30 inches above the floor has been achieved in a minimum of 25% of all regularly occupied areas.

Measurement: Demonstrate, through records of indoor light measurements, that a minimum daylight illumination level of 25 footcandles (or 250 lux) has been achieved in at least 75% of all regularly occupied areas. Measurements must be taken on a 10-foot grid for all occupied spaces and must be recorded on building floor plans. Measurements must be taken under clear sky conditions, at 30" above the floor.

Achieve a minimum glazing factor of 2% in a minimum of 25% of all regularly occupied areas using the following:

 $Glazing Factor = (\frac{window \ area \ (sf)}{Floor \ area \ (sf)}) (window \ Geometry \ Factor) (\frac{Actual \ Tvis}{Minimum \ Tvis}) (window \ height \ factor)$

Core & Shell: Core and shell buildings with 0.3 < window to wall ratio < 0.45 may also claim 1 daylight

point.

Points: 1 point ≥ 25% and < 50% of occupied spaces achieve 2% Daylight Factor

2 points ≥ 50% and < 75% of occupied spaces achieve 2% Daylight Factor 3 points ≥ 75% and < 90% of occupied spaces achieve 2% Daylight Factor

4 points 90% of occupied spaces achieve 2% Daylight Factor



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Intent: Increase occupant comfort and productivity by providing natural light to the building

occupant workspaces.

Submittals: Provide plans specifying the daylit areas and daylighting calculations for occupied spaces.

For core and shell buildings, provide the window to wall ratio calculations.

Resources: -

H4.02 Acoustics

Requirement: Earn one point for each assembly, exterior, interior, and fenestration that complies with

the sound transmission coefficient (STC) ratings listed.

Exterior wall and Roof assembly have STC rating >= 50

Fenestration STC rating >= 30

Interior spaces: Private adjacent to private STC >= 45

Interior spaces: Private adjacent to public/common space STC >= 55

Points: 1 point 1 assembly

2 points2 assemblies3 points4 assemblies

Intent: Increase occupant comfort and productivity by providing appropriate acoustical control

for the building occupants.

Submittals: Provide cut sheets for the wall assembly and fenestration indicating the STC ratings.

Resources: -

H4.03 Views

Requirement: To comply with this credit, a minimum of 25% of the full-time occupants must have line of

sight from their workstation to the exterior. Earn one point for each 25% of the full-time

occupants that have line of site to the exterior.

Points: 1 point ≥ 25% and < 50% of full-time occupants have line of sight to exterior

2 points ≥ 50% and < 75% of full-time occupants have line of sight to exterior 3 points ≥ 75% and < 90% of full-time occupants have line of sight to exterior

4 points 90% of full-time occupants have line of sight to exterior

1 Bonus point available if ≥ 50% of the views with access to nature, sky, or movement.

Core & Shell: Core and shell buildings with 0.3 < window to wall ratio < 0.45 may also claim 1 point.

Intent: Increase occupant comfort and productivity by providing line of site to the outdoors.

Provide a furniture plan of the building; indicate the location of building occupants and

their line of site to the outdoors. For core and shell buildings, provide the window to wall

ratio calculations.

Resources: -

Submittals:



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H4.04 Outdoor Space Provided for Employees

Requirement: Provide a covered and or screened area outdoors for employee meetings or lunch breaks.

To receive credit, this space must be designated non-smoking and be a minimum of 250

SF.

Points: 1

Intent: Increase occupant productivity by covered outdoor space for lunch, breaks, and meetings.Submittals: Provide a site plan indicating outdoor space, type of cover, square footage and photos.



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CATEGORY 6: MATERIALS

M1 Material Efficiency and Global Responsibility

M1.01 Remodel Existing Building

Requirement: Rehabilitate existing building.

Maintain a minimum of 10% of an existing building structure and shell (exterior skin and

framing, excluding window assemblies) and non-structural roofing material.

Points: 1 point per 10% of building structure that is maintained

Intent: Renovate existing building stock to conserve resources, retain cultural resources, reduce

waste, and reduce environmental impacts of new buildings as they relate to materials

manufacturing and transport.

Submittals: Floor plan of existing building, demolition plan, and new building floor plan.

Resources: -

M1.02 Recycled Content

Requirement: Incorporate recycled materials (based on materials cost). Use materials with recycled

content such that post-consumer and/or post-industrial recycled content constitutes a minimum of 5% of the total project cost. Earn one additional point for each additional 5% of recycled content materials. The value of the recycled content portion of a material or furnishing shall be determined by dividing the weight of recycled content in the item by the total weight of all material in the item, then multiplying the resulting percentage by

the total value of the item.

Mechanical and electrical components shall not be included in this calculation. Recycled content materials shall be defined in accordance with the Federal Trade Commission document, Guide for the Use of Environmental Marketing Claims, 15 CFR 260.7 (e),

available at www.ftc.gov/bcp/grnrule/guides980427.htm.

Points: 1 point ≥ 5% and < 10% recycled content

2 points ≥ 10% and < 15% recycled content 3 points ≥ 15% and < 20% recycled content

4 points ≥ 20% recycled content

Intent: Encourage the use of recycled content materials to minimize the environmental impacts

associated with the extraction of virgin materials.

Submittals: Submit the completed materials checklist and supporting documentation of the

percentages claimed including budget documentation.

Resources: -

M1.03 Rapidly Renewable Materials

Requirement: Incorporate rapidly renewable (plant to harvest cycle <10 years) into the project such as

bamboo flooring, wool carpets, straw board, cotton batt insulation, linoleum flooring, poplar OSB, and sunflower seed board and wheatgrass cabinetry qualify for this credit.



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Points: 1 point for using rapidly renewable materials

Intent: Reduce the use and depletion of finite raw materials and long-cycle renewable materials

by replacing them with rapidly renewable materials.

Submittals: Complete the Materials Spreadsheet in the checklist. Provide approved submittals for

materials and documentation of the products rapidly renewable content.

Resources: -

M1.04 Certified Wood

Requirement: All hardwood used on the project must be FSC, SFI or CSA certified. Use a minimum of

50% certified of wood-based materials and products, for wood building components including, but not limited to, structural framing and general dimensional framing, flooring, finishes, furnishings, and non-rented temporary construction applications such as bracing, concrete form work and pedestrian barriers. Earn one additional point for each 25%

additional certified wood used on the project.

Points: 1 point ≥ 40% and < 60% of certified wood

2 points ≥ 60% and < 80% of certified wood

3 points 80% of certified wood

Intent: Encourage environmentally responsible forest management.

Submittals: Submit a copy of the wood certification and the calculations showing percentage of

certified wood used in the construction of the project. <u>Submit the completed materials</u> checklist and supporting documentation of the percentages claimed including budget

documentation.

Resources: -

M1.05 Biobased Materials

Requirement: Incorporate biobased materials into the project such as solid wood, engineered wood,

bamboo, wool, cotton, cork, agricultural fibers, or other bio-based materials with at least

50% bio based content.

Points: 1 point for incorporating biobased materials

Intent: Encourage the use of natural products.

Submittals: Submit signed approved submittal and photos of installed materials.

Resources: -

M1.06 Resource Efficient or Panelized Wall Systems

Requirement: Install a minimum of 80% of the non-structural exterior walls must be Autoclaved Aerated

Concrete (AAC), Insulated Concrete Forms (ICF), or Structural Insulated Panels (SIPs) or a

combination thereof.

Points: 2

Intent: AAC is composed of cement, sand, lime, and an aerating agent, which is baked in an

autoclave oven. The result is a very lightweight insulated concrete product. Blocks and panels are stacked similar to bricks and held together with adhesive. ICFs are a family of exterior wall systems that provide the strength of structural concrete walls with the



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thermal performance of integral insulation and high thermal mass. Generally, a Styrofoam form is filled with poured concrete, or concrete is used to surround a Styrofoam core. SIPs generally consist of two (outer) layers of structural sheet material and foam core, ranging from 2 to 12 inches thick. They can be used to build exterior walls, roofs, and floors.

Submittals: Photo, detailed plans, or material cut sheets.

Resources:

M2 Waste Management

M2.01 Construction Waste Recycling

Requirement: Develop and implement a waste management plan, quantifying material diversion goals.

Recycle and/or salvage a minimum of 50% of construction, demolition, and land clearing waste. Calculations can be done by weight or volume but must be consistent throughout.

Earn additional points for increased diversion of waste.

Points: 2 point: ≥ 50% < 75%

3 points: > 75% < 90%

4 points: > 90%

Intent: Divert construction, demolition, and land clearing debris from landfill disposal. Redirect

recyclable recovered resources back to the manufacturing process. Redirect reusable

materials to appropriate sites.

Submittals: Provide copies of the monthly waste reports indicating diverted waste and calculate the

total waste material diversion rate

Resources: -

M2.02 Recycling for Building and Tenants

Requirement: Provide an accessible area that serves all the building occupants that is dedicated to the

collection, separation, and storage of recyclables. Recycling rooms in the buildings shall be a minimum of 0.05% of the total conditioned square footage of the building while recycling areas outside the structure shall accommodate a minimum of a 3 CY dumpster for every 50,000 SF of conditioned space. Alternatively install an integrated recycling trash chute, which are serviced by a recycling waste hauler, that allow the occupants, when disposing of waste, to select either recycling or waste. FGBC will consider multiple pick-ups per week when reviewing compliance with the credit. This credit is only available to locations that are serviced by an existing commercial recycling provider

Points: 1

Intent: To increase the reclamation and recycling of one of the largest volumes of landfill

materials.

Submittals: Provide a copy of the contract that highlights the terms of the purchase / lease of floor

coverings that will be taken back by the manufacturer for recycling rather than disposal in

landfill



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M2.03 Recyclable Materials

Requirement: Use materials that at the end of their useful lifecycle can be recycled by the manufacturer

into the raw materials stream of another product. The value of such products will constitute a minimum of 10% of the total value of the materials in the project. The materials selected to comply with this category must be recyclable through a structured

existing program.

Points: 1

Intent: Increase the demand for materials that are recyclable at the end of their useful life cycle.

Submittals: Provide cut sheets for the products calculated as a part of this credit and information

about the existing recycling facilities. This credit may also be claimed if the area has an

established C&D waste recycling infrastructure.

Resources: -

M2.04 Demountable / Adaptable Interiors

Requirement: A minimum of 50% of the linear feet (LF) of interior wall partitions must be constructed

from demountable / adaptable partitions.

Points: 1

Intent: Reduce the amount of waste generated over the life of the building as a result of churn

and remodeling.

Submittals: Provide a floor plan indicating the location of the demountable wall partitions, a

calculation of the total LF of partition walls and a calculation of the total LF of

demountable walls. Also provide a cut sheet and photos of the installed wall systems

used.

Resources: -

M2.05 Durable Materials, Exterior Finish Materials

Requirement: Use finishes systems and materials capable of withstanding the moisture and heat

impacts of the local climate for a period of 25 years on 100% of the exposed exterior surfaces. Exterior surface products must have a minimum of a 25-year warranty.

Points: 1

Intent: Improve the durability of the building envelope and reduce the need to replace existing

structural finish components and materials over the expected lifetime of the building.

Submittals: Provide plan details identifying the exterior materials, approved submittals, and

corresponding warranty certificate for exterior finish materials

Resources: -

M2.06 Low Maintenance Finishes

Requirement: Use interior and exterior finish materials that require minimal or no periodic cleaning.

Use materials (on the floors, walls, and ceilings) that can be maintained in a serviceable condition with minimal periodic cleaning for 100% of the interior finishes and 50% (by

surface area) of the exterior finishes of the building.



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Points: 1

Intent: Reduce the need for harsh maintenance chemicals thereby reducing the source pollution

within and around the building and improving the indoor air quality.

Submittals: Provide copies of the manufacturer's recommended maintenance procedures for the

interior and exterior finishes.

Resources: -

M3 Local/Regional Materials

M3.01 Local Manufacturing

Requirement: Earn one point by using a minimum of 25% (by cost) based on project cost (div 2-10) of

building materials and products that are manufactured* within a 700-mile radius of the project site. Earn one additional point for each additional 25% of materials that are

manufactured within 700 miles of the project site.

*Manufacturing refers to the final assembly of components into the building product that is furnished and installed by the tradesman. For example, if the hardware comes from Dallas, Texas, the lumber from Vancouver, British Columbia and the truss is assembled in

Kent, Washington; then the location of the final assembly is Kent, Washington.

6 OUT OF 31 PROJECTS CLAIMED THIS CREDIT. THE AVERAGE WAS 26.8, THE HIGH 43.2

AND THE LOW 13.0

Points: 1 point: ≥ 10% ≤ 20% of building materials manufactured within 700-mile radius

2 points > 20% and ≤ 30% of building materials manufactured within 700-mile radius 3 points > 30% and ≤ 40% of building materials manufactured within 700-mile radius

4 points > 40% of building materials manufactured within 700-mile radius

Intent: Increase demands for building materials and products that are extracted and

manufactured within the region, thereby reducing the environmental impacts resulting

from transportation and supporting the regional economy.

Submittals: Submit the completed materials checklist and supporting documentation of the

percentages claimed including budget documentation.

Resources: -

M3.02 Local Raw Materials Extraction

Requirement: A minimum of 10% of the project materials are made from raw materials that are

harvested, extracted, or recovered within a 700-mile radius from project site. Earn additional points for each additional 10% of the project materials that are extracted

within 700 miles of project site.

Points: 1 point ≥ 5% and < 10% harvested, extracted, or recovered within 700-mile radius

2 points > 10% and < 15% harvested, extracted, or recovered within 700-mile radius 3 points > 15% and < 20% harvested, extracted, or recovered within 700-mile radius

4 points > 20% harvested, extracted, or recovered within 700-mile radius

Intent: Reduce the use of virgin materials.



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Submittals: Submit the completed materials checklist and supporting documentation of the

percentages claimed including budget documentation.

Resources: -

M3.03 Resource Reuse

Requirement: Incorporate salvaged, refurbished, or reused materials, products and furnishings into the

project to earn one point.

Points: 1 point 1 point for reusing materials

Intent: Reuse building materials and products in order to reduce demand for virgin materials and

to reduce waste thereby reducing impacts associated with the extraction and processing

of virgin resources.

Submittals: Submit supporting documentation and photos



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CATEGORY 7: DISASTER MITIGATION

DM1 Hurricane Resistance

DM1.01 Impact Glazing

Requirement: ALL installed glazing is impact resistant.

Points: 3

Intent: Increase the structural integrity of the building during high wind conditions, reducing the

potential for damage, thus decreasing the potential waste and need for replacement

materials after the storm.

Submittals: Provide the manufacturer's cut sheets for the impact resistant products indicating the

required approvals and classifications. Photos of the window stickers and or shop

drawings may also be provided.

Resources: www.buildingcodeonline.com or http://hus.parkingspa.com/hc3.asp

DM1.02 Building Integrated Hurricane Shutters

Requirement: Building is equipped with solid, integrated Miami Dade approved hurricane shutters.

Shutters that rain can penetrate or shutters that must be manually installed do not qualify

for this credit.

Points: 3

Intent: Improve the durability of the structure against high winds, driving rain conditions, and

atmospheric pressurization; thereby reducing the potential for interior damage, and

decreasing the potential waste and need for replacement after a storm.

Submittals: Signed approved submittal and photos of installed shutters.

Resources: www.buildingcodeonline.com or http://hus.parkingspa.com/hc3.asp

DM1.03 Building Hardening

Requirement: Building is engineered to withstand design pressures that are 15% greater than the code

requirements for the area. Additional points available for Fortified Commercial

Certification

Points: 2 points for Increased design pressure

2 points for Fortified Roof4 points for Fortified Silver5 points for Fortified Gold

Intent: Increase the hurricane resistance of the building.

Submittals: Design calculations and a narrative from the architect or structural engineer explaining

measures taken to improve the buildings resistance to hurricanes.

Resources: https://fortifiedhome.org/commercial-levels/



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DM1.04 Uninterrupted Operations

Requirement: The building through use of renewable energy or generators must be able to continue

operations during times of extended grid source power loss. The power back-up system

must be designed to provide a minimum 8 hours of operation per day for 3 days.

Points: 3

Intent: Allow businesses to run and service the community after storm events.

Submittals: Approved submittal and photos of installed system

Resources: -

DM1.05 Building is Designated a Hurricane Shelter

Requirement: The building is designed to meet or exceed the requirements for Florida hurricane

shelters. Requirements may vary based on local jurisdiction and wind loads. The credits are only available if the building complies with the Hurricane Shelter requirements of the

location.

Points: 5

Intent: Provide a durable building that can also service the community.

Submittals: A brief narrative describing the features added to comply with the local hurricane shelter

requirements.

Resources: Florida Disaster Hurricane Shelters and Critical Facilities Library

http://www.floridadisaster.org/Response/engineers/library.htm

Standards for Hurricane Evacuation Shelter Selection

http://www.floridadisaster.org/Response/engineers/SESPlans/2010SESPlan/documents/2

010-SESP-AppxCfinal.pdf

Performance Standards and Expectations of Hurricane Shelters

http://www.floridadisaster.org/Response/engineers/documents/06 GHC-PerfStds-of-

Shelters.pdf

ICC/NSSA Storm Shelter Standard (Draft)

http://www.floridadisaster.org/Response/engineers/documents/2006%20GHC%20ICC%2

0Tezak.pdf

2017 Florida Building Code—Building, 6th Edition Section 453.25 Public Shelter Design

Criteria

https://www.floridadisaster.org/globalassets/dem/response/sesp/2018/appendices/2018-sesp-appendix-

b_fbc-text_final_1-29-18.pdf

DMD1.06 Shelter in Place

Requirement: Provide an area served by backup power (generator or similar) that is air conditioned for a

minimum of 25% of the building full time occupants. Provide backup power to back of house refrigeration. Provide an emergency circuit tied to back up power in each residential unit that serves the refrigerator and a minimum of 2 duplex 110 outlets.

Points: 1-4

1 point: Provide backup power to back of house refrigeration



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3 points: Provide an air-conditioned common area of respite for a minimum of 25% of

the full-time building occupants.

Intent: Provide area for residence to have access to air-conditioning and electric for health and

safety.

Submittals:

Provide generation needs calculation and corresponding construction details.

Resources:

DM₂ **Pest Management**

DM2.01 **Termite Prevention**

Requirement: Comprehensive termite prevention: Provide signage in each unit indicating termite treatment provider. Provide the building manager or HOA necessary information for reinspection and treatment contract renewal.

- 1. A single slab must be poured monolithically or must have area treated for termites (conventionally or by approved alternative) before each portion of slab is poured.
- 2. After the slab has substantially cured, any penetration through the slab such as piping, or conduit shall be sealed around its perimeter with an elastomeric sealer.
- 3. Any foam insulation must terminate above ground such that none of it extends below grade.
- 4. The exterior cladding of the building must terminate at least 8" above grade.
- 5. All structural wood products must be treated with Borate or ACQ OR wood must not be used for any structural components of the building.
- 6. Rainwater conveyance must be discharged into stormwater management system or be conveyed a minimum of 3 feet away from the building foundation.
- 7. All HVAC condensate line(s) must be collected for reuse, discharged into stormwater management system, or conveyed at least 3 feet away from the building.
- 8. All plants and irrigation should be at least 3 feet from building.

Points: 3

Intent: Increase the termite resistance of the building, reducing the potential for damage from

termite infestation, thus decreasing the potential waste and need for replacement

materials after the damage is detected.

Submittals: Provide project photos, copy of warrantee, and appropriate construction details

Resources:

DM2.02 **Physical Termite Barrier**

Requirement: Physical barriers must be used in addition to or in lieu or traditional termite treatments.

Physical barriers include stainless steel mesh, elastomeric plumbing boots, or other

means of physically sealing the slab penetrations.

Points: 3

Intent: Increase the termite resistance of the building, reducing the potential for damage from

termite infestation, thus decreasing the potential waste and need for replacement

materials after the damage is detected.

Submittals: Provide photos showing all sealed penetrations.



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Resources:

DM2.03 Integrated Pest Management

Requirement: Work with a skilled pest control professional to develop an Integrated Pest Management Plan that addresses the following four items:

- Monitoring and prevention of pest populations.
- Application of pesticides only "as needed" after prevention and physical controls have been implemented.
- Selecting the least hazardous pesticides for control of targeted pests.
- Precision targeting of pesticides to areas not contacted or accessible to the occupants.

Points: 3

Intent:

Integrated pest management (IPM) is a process for achieving long term, environmentally sound pest suppression through the use of a wide variety of technological and management practices. Control strategies in an IPM program extend beyond the application of pesticides to include structural and procedural modifications that reduce the food, water, harborage, and access used by pests. IPM can reduce the use of chemicals and provide economical and effective pest suppression. IPM does not involve the complete elimination of the use of pesticides, nor does it involve solely substituting "good" pesticides for "bad" pesticides. IPM attempts to achieve a balance of both chemical and non-chemical methods to control pest problems. Integrated pest management (IPM) can reduce or eliminate the need for chemicals to control pests inside and outside of the building.

To properly implement IPM, there are maintenance issues that need to be undertaken by the Owner after construction, therefore an IPM maintenance plan should be developed and included in an Owner's manual that is presented to the Owner.

Submittals:

IPM plan

Resources:

An excellent source of information on IPM is the Sustainable Building Sourcebook by Austin Energy, Austin, TX. It can be found on the internet at http://nontoxictermite.sustainablesources.com/ Another source of information is "Integrated Pest Management for Schools: A Catalog of Resources", put together by the University of Florida Institute of Food and Agricultural Sciences, and available at: http://schoolipm.ifas.ufl.edu/school_ipm.pdf.

DM3 Flood

DM3.01 **Finished Floor Elevation (FFE)**

Requirement: Finished Floor Elevation (FFE) must be above 100-year flood plain or finished grade

adjacent to building, whichever is higher. All grades around building must slope away from the foundation a minimum of 6" at 10'-0" distance. The 100-year flood plain is

determined by FEMA.

Points: 1 Point: FFE 12" above 100-year flood.

2 Points: FFE 24" above 100-year flood.

Intent: Reduce the potential for flooding and the resulting moisture and mildew problems.



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Submittals: Provide the appropriate drawings illustrating the foundation design, floor elevation and

grading requirements. Include a copy of the NFIP Elevation Certificate certified by the surveyor, engineer or architect showing the 100-year flood plain elevation or grade.

Resources: -

DM3.02 All Critical Infrastructure Elevated

Requirement: All mechanical equipment pads must be 12" above 100-year flood plain or grade,

whichever is higher. All grades around building must slope away from the foundation a minimum of 6" at 10'-0" distance. The 100-year flood plain is determined by FEMA. Critical infrastructure beyond mechanical to include electrical transformers, backup power, pumps. Also update to raise above freeboard or 3' or more above 100-yr flood

Points: 2 points for mechanical 12" above 100-year flood

5 points if all critical MEP infrastructure 3' or more above 100-year flood

Intent: Increase the longevity of equipment by providing a buffer from flood events.

Submittals: Provide the appropriate drawings illustrating the foundation design, floor elevation and

grading requirements. Include a copy of the NFIP Elevation Certificate certified by the surveyor, engineer or architect showing the 100-year flood plain elevation or grade.

Resources: -

DM3.03 Buildings Within 500-year flood Plain

Requirement: When building within the 500 year flood plain elevate critical MEP infrastructure is at

least 24" above 100-year flood plain.

Points: 2

Intent: Increase the longevity of equipment by providing a buffer from flood events.

Submittals: Provide the appropriate drawings illustrating the building proximity to the coast and the

elevations of the FFE and equipment slabs. Include a copy of the NFIP Elevation

Certificate certified by the surveyor, engineer or architect.

Resources: -

DM4 Fire Resistant Exterior Finishes

Requirement: Project must utilize fire-resistant exterior wall cladding, roof covering or sub-roof, soffit

and vent materials. An exterior cladding other than wood or vinyl must be used on all exterior walls. A roof covering other than asphalt shingles or wood shakes must be used on the entire roof. Roof covering fire resistance shall exceed Code requirements by a minimum of one classification (for example, install Class "A" when Code requires Class "B"). Soffit and vent materials must be other than wood or vinyl. When these parts of the

building are compromised, embers from nearby fires can enter the attic.

Strategies: Use exterior wall materials made of stucco, unfinished CBS, brick, aluminum, stone or fiber-cement. Use roof coverings made of metal, concrete, fiber-cement, or tile.

Use soffit and vent materials made of aluminum or fiber-cement.

Points: 2

Intent: Increase the fire resistance of the building, reducing the potential for damage from

wildfires, thus decreasing the potential waste and need for replacement materials after

the fire.



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Submittals: Provide the completed Letter Template, signed by the architect or other responsible

party, and appropriate drawings and manufacturer's cut sheets illustrating the fire

resistance of the exterior finish materials.

Resources: -

DMD5 Durability

DMD5.01 Durable Materials, Exterior Finish Materials

Requirement: Use finish systems and materials capable of withstanding the moisture and heat impacts

of the local climate for a period of 30 years on 100% of the exposed exterior surfaces. Structure shall be Type 1A, exterior materials shall be approved by Miami-Dade County or

have a 30-year warranty.

Points: 1

Intent: Reduce the need to replace existing structural finish components and materials over the

expected lifetime of the building thereby reducing impacts resulting from removal and

disposal of poorly performing material.

Submittals: Plan detail identifying all the systems and materials used for the exterior finish of the

building. Attach copies of the NOA for Miami-Dade, manufacturer's warranties or documentation supporting the established history for any material without a written

warranty.

Resources:

DMD5.02 Install Water Leak System and Shutoff System in Residential Units

Requirement: Install a whole house water sensor/shutoff system is installed that detects any sign of

water leakage anywhere inside the conditioned space and cuts off the main water supply to the building. At a minimum, sensors must be installed in the vicinity of a bathrooms and tank water heater or as required by manufacturer. Earn additional points if the leak

detection system and/or shutoff systems are tied to a mobile smart application.

Points: 1-3

1 Point: Leak Detection with Automatic Shut Off

2 Points: Leak Detection System Installed and tied to Mobile Smart Application

3 Points: Leak Detection AND Automatic Shut Off Systems Installed and tied to Mobile

Smart Application

Intent: Undetected water leak or failures can cause severe damage.

Submittals: Construction detail, cut sheet, and photo of system installed

Resources:

DMD5.03 Durability: Use Armored/Metal Hoses from Service to All

Fixtures/Appliances

Requirement: Install armored, braided, pex, or otherwise reinforced hoses to all water using fixtures or

appliances.

Points: 1



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Intent: Water consuming fixtures and appliances typically use unarmored hoses for their water

supply. Plastic and rubber hoses have a finite life and are likely to eventually fail, potentially causing flooding and unnecessary water use, especially if not discovered

immediately.

Submittals: Cut sheet, construction detail, signed approved submittal, site photos

Resources:

DMD5.04 Low Maintenance Finishes

Requirement: Use materials (on the floors, walls and ceilings) that can be maintained in a serviceable

condition using green cleaning products and methods for 100% of the interior finishes of

the building and 50% (by surface area) of the exterior finishes.

Points: 1

Intent: Reduce the need for harsh maintenance chemicals thereby reducing the source pollution

within and around the building and improving the indoor air quality.

Submittals: Provide a copy of the manufacturers recommended maintenance procedures, the type

and area of materials that comply.

Resources:

CATEGORY 8: ENVIRONMENTAL INNOVATION

El Environmental Innovation

Requirement: Up to five points are available for innovative and environmentally beneficial regionally

specific additions to the project.

Points: 1-5

Intent: These credits are intended to provide the design teams and projects the opportunity to

be awarded points for exceptional performance above the requirements set by the Florida Green Building Coalition and/or innovative performance in Green Building

categories not specifically addressed by this standard

Submittals: The submittals will be determined based on the innovation request.

