

LEED Project Management Workshop



Aly Ebzery, LEED AP
BCCI Construction



Introductions



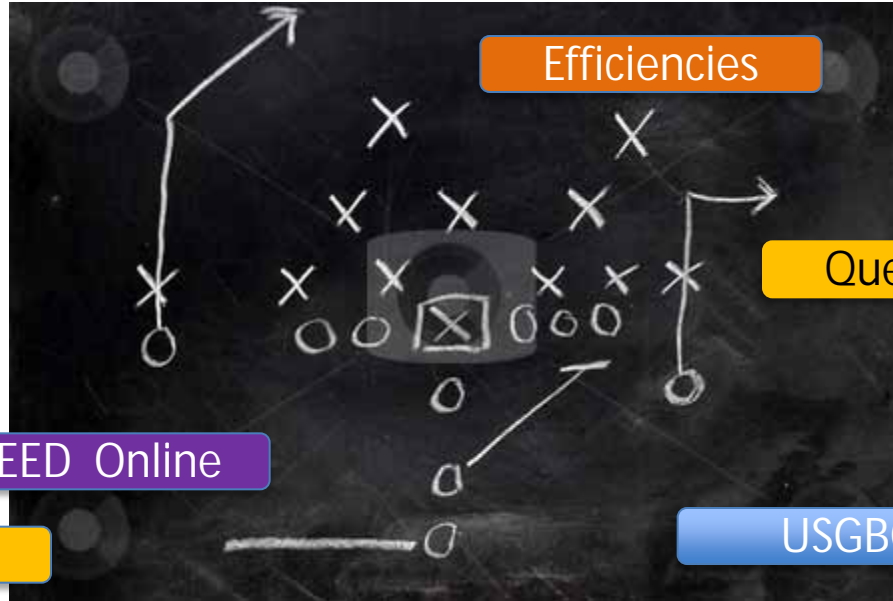
INTRODUCTIONS

Should always start with a handshake

motifake.com



Game Plan



Why LEED?

NEW Policies

Benefits

Questions?

LEED Online

LEED Basics

USGBC

LEED MPR

Case Studies

LEED PROJECT MANAGEMENT

Stories

Reference

Activities

Tricks and Tips

Activities

ROI



“YOU MUST BE THE CHANGE YOU WISH TO
SEE IN THIS WORLD.”

- *Mahatma Gandhi*



Why LEED?

Personal Accreditation

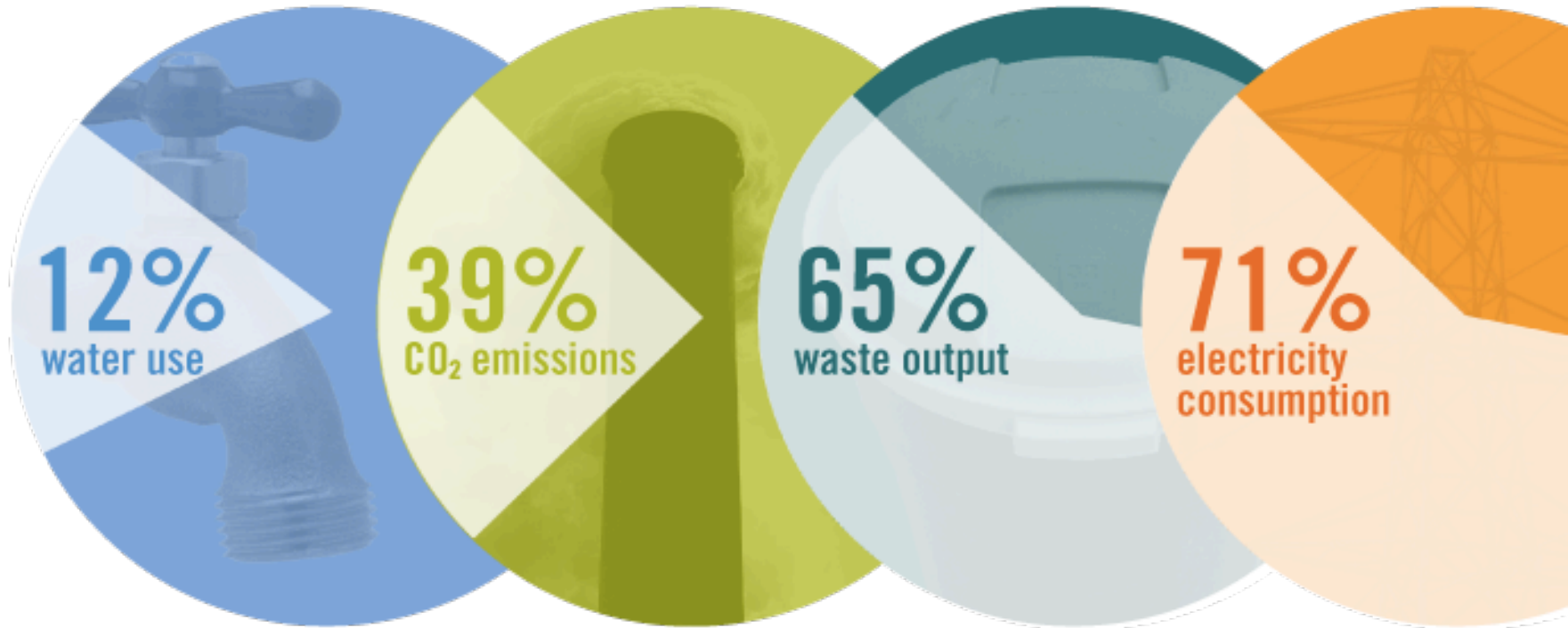
- § **Marketable**
- § Strengthen qualifications for proposals
- § Boss is making you
- § LEED APs Earn one Innovation in Design Point
- § List name on USGBC's Online Directory
- § **Promote USGBC's mission**
- § Receive special commemorative pin



Businesses/Buildings Certification

- § **Marketable**
- § Decreased Operating Costs
- § Value of the space/building increases
- § Return on Investment improves
- § List name on USGBC's Online Directory
- § Occupancy and Rent Ratios increase
- § **Promote USGBC's mission**
- § Receive special commemorative plaque

U.S. Building Impacts



©USGBC

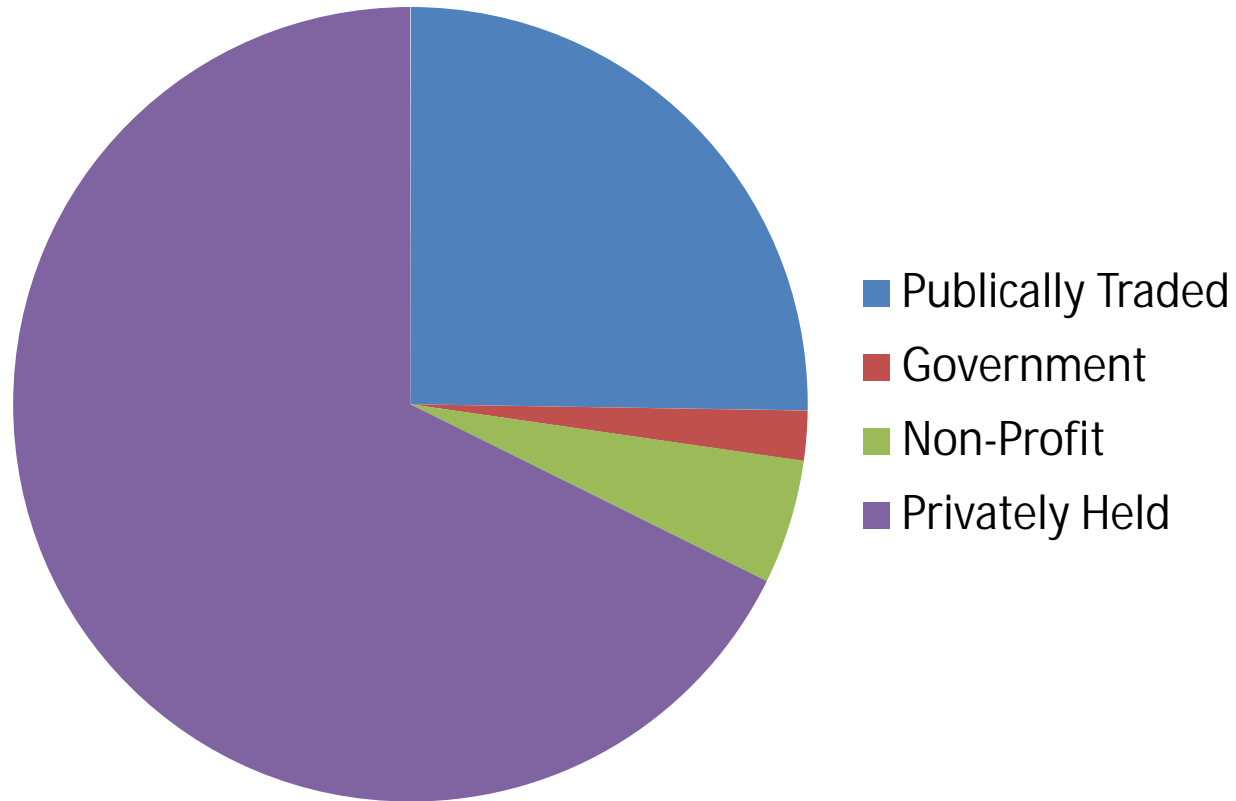


Impacts of Development

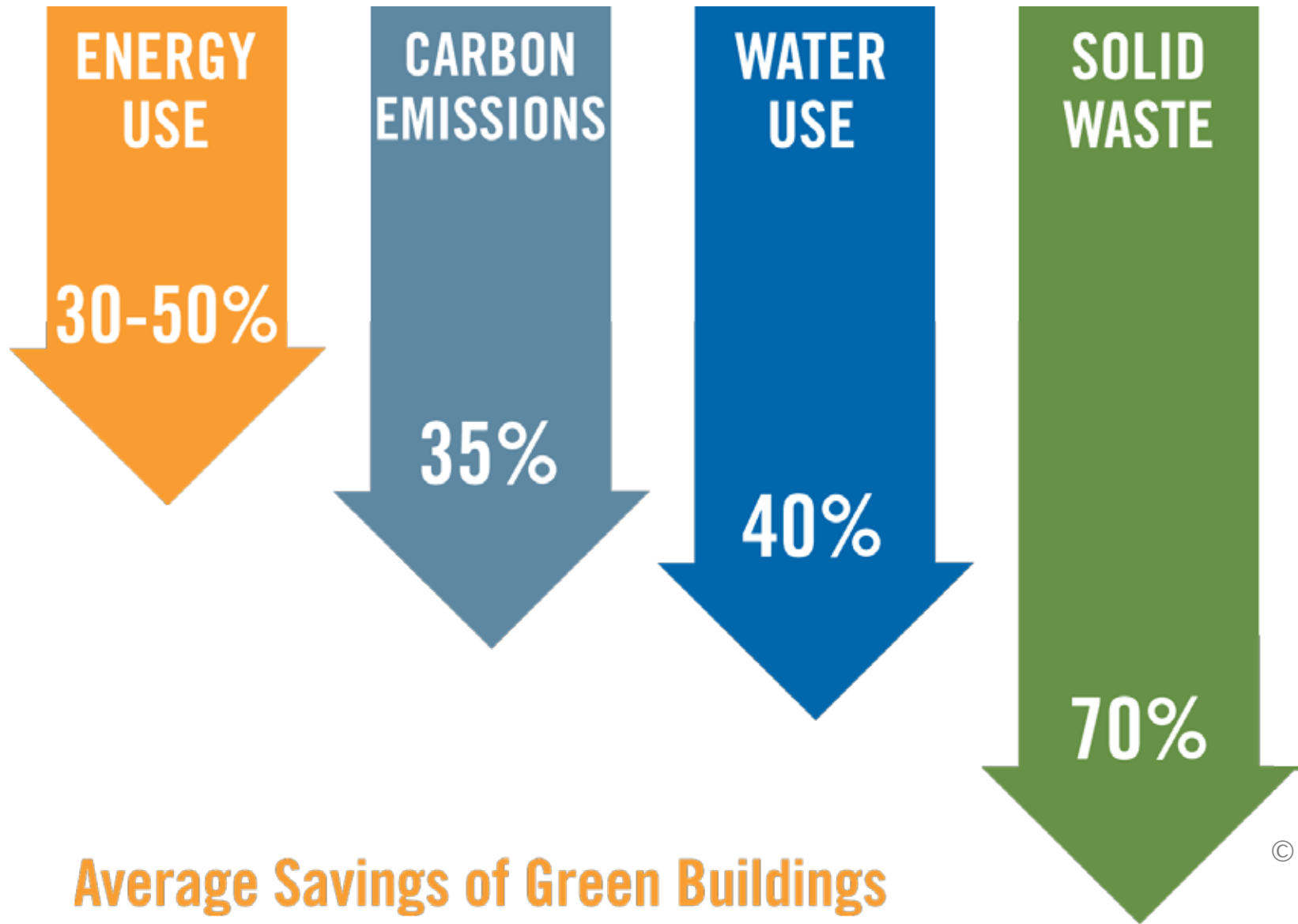


Green Building – Tenant Profile

While government occupies more than 2% of green space, this study is more representative of the market as a whole.



Green Building Benefits

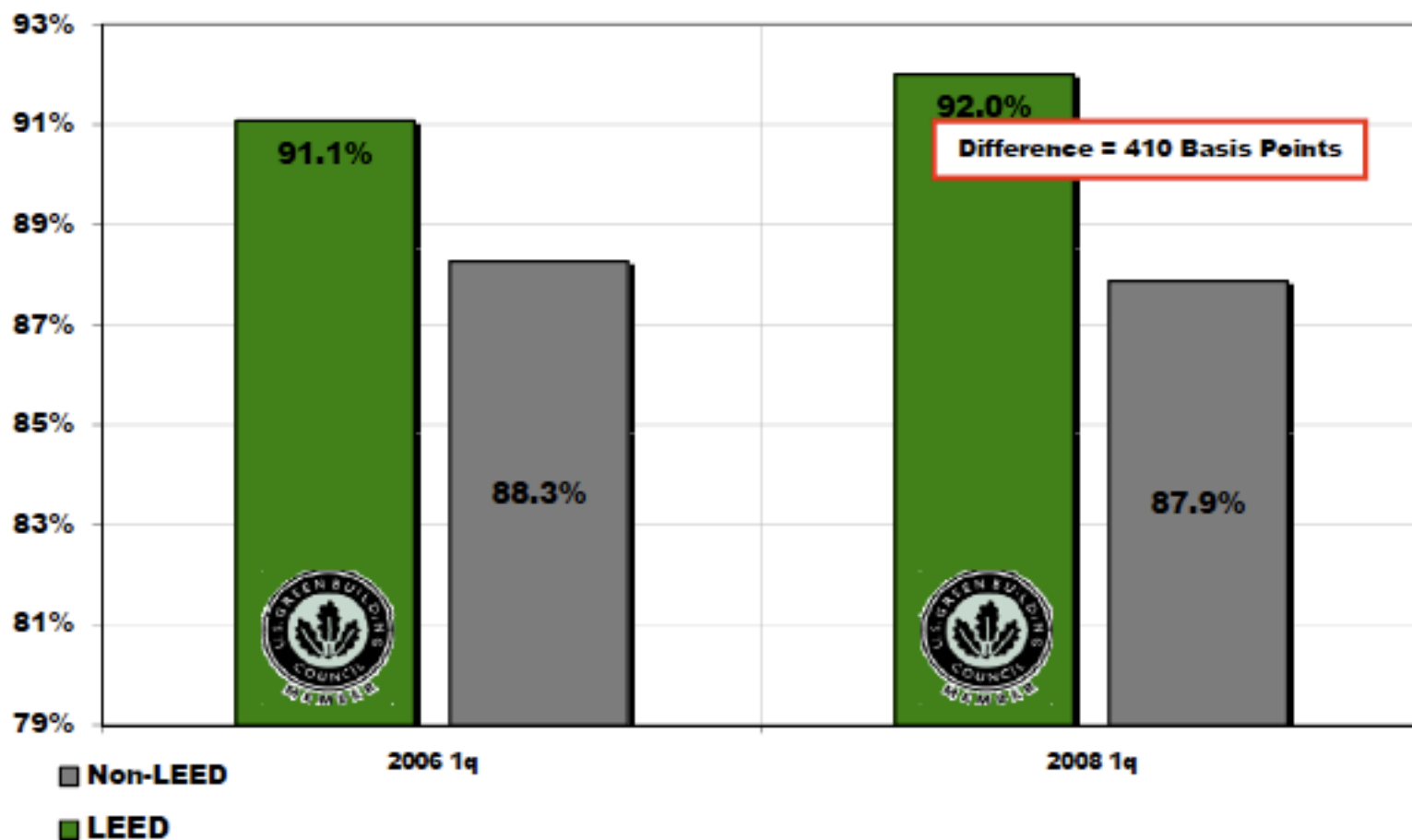


Average Savings of Green Buildings

©USGBC



Occupancy Rates National - LEED Rated Buildings

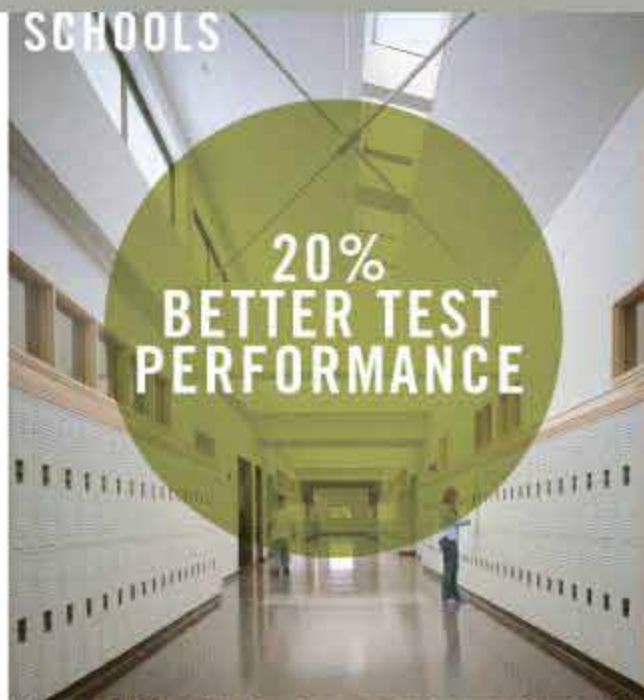


Green Building Policy



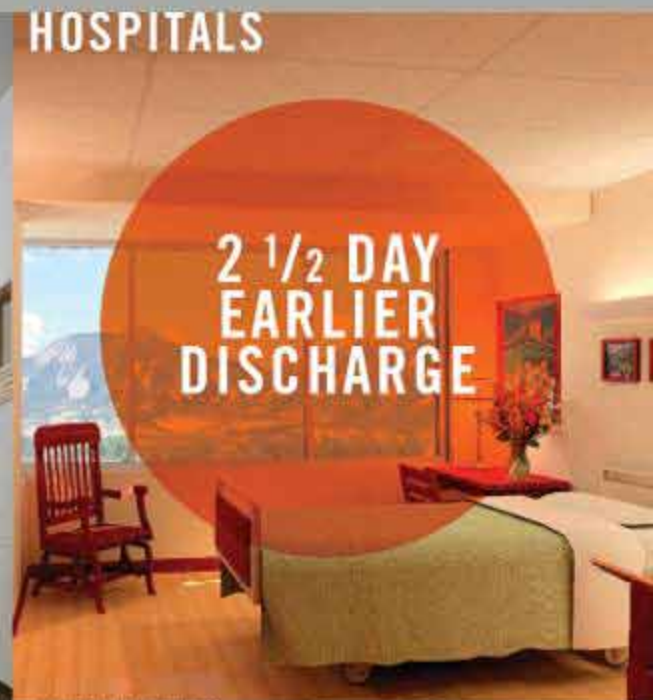
Increased Productivity.

SCHOOLS



**20%
BETTER TEST
PERFORMANCE**

HOSPITALS



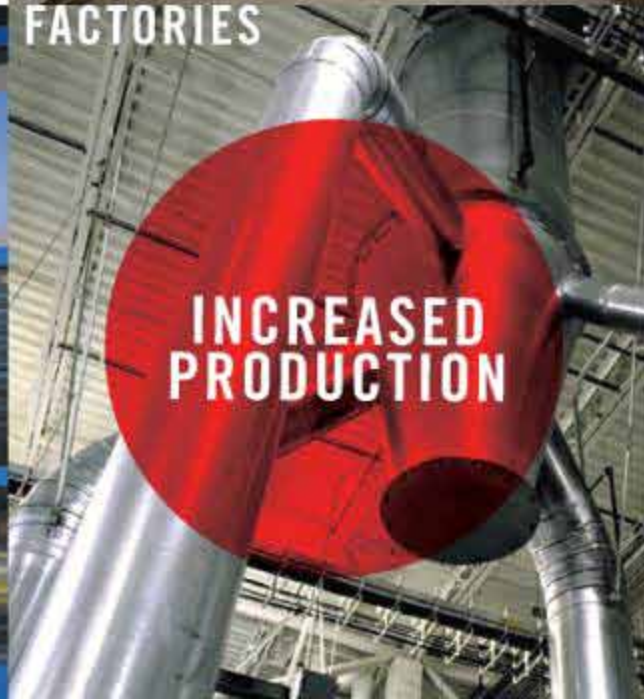
**2 1/2 DAY
EARLIER
DISCHARGE**

RETAIL



**INCREASE
IN SALES
PER SQUARE
FOOT**

FACTORIES



**INCREASED
PRODUCTION**

OFFICES



**2-16%
PRODUCTIVITY
INCREASE**

Green Building Perceived Benefits



©USGBC



THE NEXT GENERATION'S PERSPECTIVE WILL INCREASE GREEN BUILDING



89% choose brands aligned with social cause

74% listen to brands aligned with social cause

69% shop for brands aligned with social cause

66% recommend brands aligned with social cause



The Energy Foundation

The first LEED CI **Platinum** project in California



- § Daylight harvesting
- § Recycled denim acoustical insulation
- § Advanced lighting control systems
- § Independent climate controls
- § Wood-fiber ceiling tiles
- § Greenguard-certified workstations



AIA & USGBC San Francisco Offices

LEED Gold



- § Daylight Responsive Controls
- § Operable Windows
- § 95% Construction Waste Diversion



Terminology



'LEED'

VS



'LEEDS'



Terminology

- People are LEED Accredited



- Buildings are LEED Certified



Terminology

Tulipo 2.5kW 'LEED' Certified Wind Turbine

The Tulipo 2.5kW rated wind turbine is very unique in that it is registered with the USGBC, (United States Green Builders Council) and is rated as a 'LEED' certified product. The 'Leadership in Energy and Environmental Design' registration provides industrial manufacturers and commercial real estate developers with the ability to use the Tulipo to attain additional points regarding their respective 'LEED' registered real estate development projects.

Manufacturer: Wind Energy Solutions BV, Netherlands.

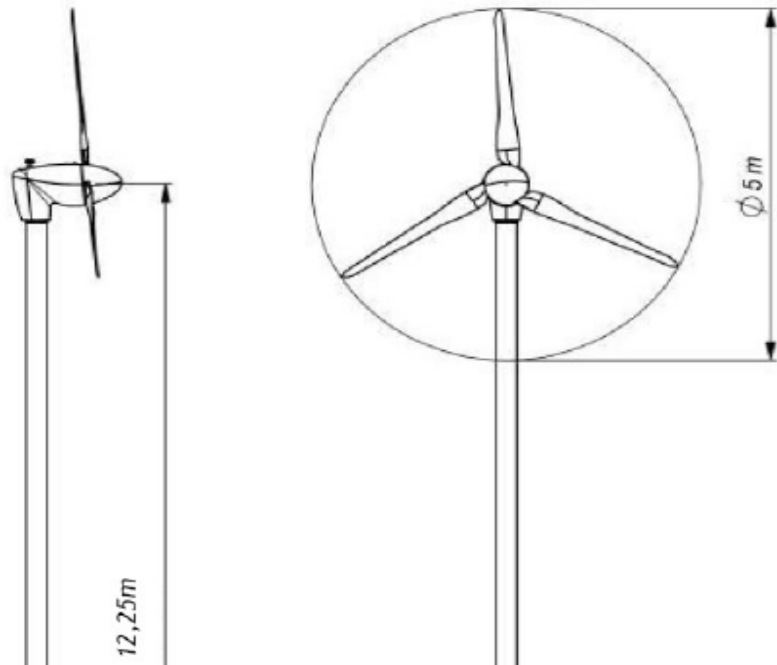
Energy Rating: Tulipo average or median energy output per year is approximately 8,500kWhrs.

Cash Rebate: PG&E rebate per Tulipo is \$6,250.00

Mounting: The Tulipo is pre-engineered to accommodate structural roof mounting capabilities or ready to accommodate a standard ground mount configuration.

Maximum height of hub: 40 ft.

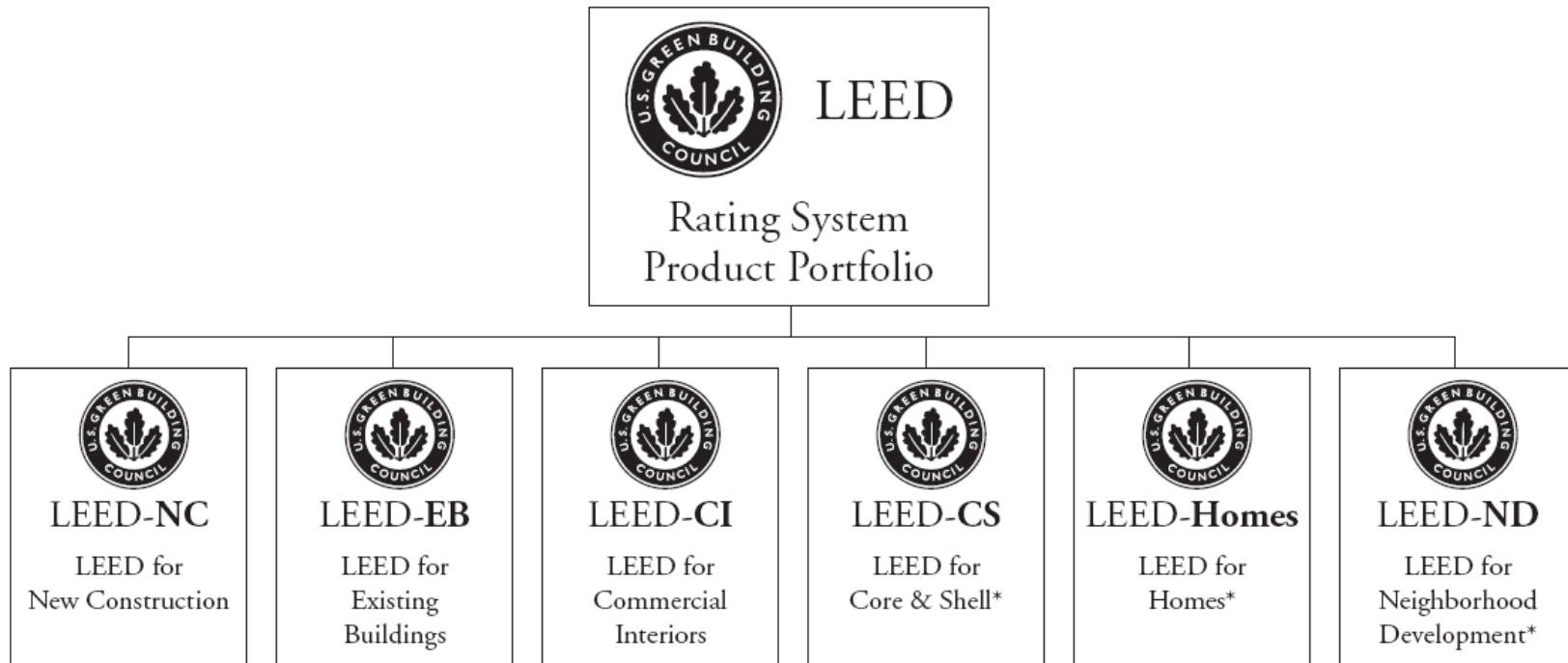
Dimensions: See Figure.



Tulipo 2.5kW Images



LEED Products (Rating Systems)



© USGBC



USGBC has four levels of LEED:



Levels of LEED Ratings

Version 2 – CI

*Platinum: 52-69 points

Gold: 39-51 points

Silver: 33-38 points

Certified: 26-32 points

Version 3 – CI, NC, EBOM

*Platinum: 80 - 110

Gold: 60-79 points

Silver: 50-59 points

Certified: 40-49 points

5 Categories of LEED



Minimum Program Requirements

LEED Projects must comply with each applicable MPR (excluding LEED H & LEED ND)

1. Must comply with environmental laws
2. Must be a complete, permanent building or space
3. Must use a reasonable Site Boundary (See next slide on Site Boundary)
4. Must comply with minimum floor area requirements
5. Must comply with minimum occupancy rates
6. Must commit to sharing whole building energy and water data
7. Comply with a minimum building area to site area ratio

LEED for New Construction:

Does this LEED project meet the Minimum Program Requirements for LEED for New Construction and Major Renovations? [Read More](#)

- Yes
 No

Warning! Single family or low-rise multifamily residential projects under 4 stories MUST register under LEED for Homes.

[Back](#) [Next](#) [Cancel](#)



LEED Site Boundary



LEED SITE BOUNDARY

FOR SECTION 110.02 AND TABLE 110.04
 1. 4% OF PARKING SPACES BY
 AREA MUST BE ACCESIBLE SPACES
 2. 2% OF PARKING SPACES BY
 AREA MUST BE ACCESIBLE SPACES
 3. 2% OF PARKING SPACES BY
 AREA MUST BE ACCESIBLE SPACES
 4. 2% OF PARKING SPACES BY
 AREA MUST BE ACCESIBLE SPACES

LEED SITE BOUNDARY

1. 4% OF PARKING SPACES BY
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 2. 2% OF PARKING SPACES BY
 AREA MUST BE ACCESIBLE SPACES
 3. 2% OF PARKING SPACES BY
 AREA MUST BE ACCESIBLE SPACES
 4. 2% OF PARKING SPACES BY
 AREA MUST BE ACCESIBLE SPACES

--- ACCESSIBLE PATH OF TRAVEL
 (SEE SECTION 110.02 FOR
 MORE INFORMATION)

■ LEED SITE BOUNDARY

<p>PROJECT NAME: LEED GREEN BUILDING</p> <p>PROJECT NUMBER: 110.02</p> <p>DATE: 11/11/11</p> <p>SCALE: 1/8" = 1'-0"</p> <p>DRAWN BY: AS</p> <p>CHECKED BY: KB</p> <p>DATE: 11/11/11</p>	<p>DATE: 11/11/11</p> <p>SCALE: 1/8" = 1'-0"</p> <p>DRAWN BY: AS</p> <p>CHECKED BY: KB</p> <p>DATE: 11/11/11</p>	<p>DATE: 11/11/11</p> <p>SCALE: 1/8" = 1'-0"</p> <p>DRAWN BY: AS</p> <p>CHECKED BY: KB</p> <p>DATE: 11/11/11</p>	<p>DATE: 11/11/11</p> <p>SCALE: 1/8" = 1'-0"</p> <p>DRAWN BY: AS</p> <p>CHECKED BY: KB</p> <p>DATE: 11/11/11</p>
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FTE – Full Time Equivalent Occupancy

APPLICABLE TO ALL RATING SYSTEMS

Annual FTE is based on the average 40 hour work week, assuming 48 total work weeks in the year. FTE is defined as one person spending eight hours a day for 240 days in the building, or 1920 hours annually. The calculation can be Averaged by FTE occupants per day, week, or month.

Full time Occupant = 8 hr occupant has an FTE value of 1.0

Part-Time Occupant=FTE value based on hours/day divided by 8

Equation:

$$\text{FTE Staff Occupants} = \frac{\text{Total Staff Occupant Hours}}{8}$$



FTE – Full Time Equivalent Occupancy

** FTE must be consistent throughout the project*

EXAMPLE:

A large company has 388 full time employees with 30 part time occupants that are considered as either temps or hotel employees. They operate around 250 days a year.

$$\text{FTE} = (388 \text{ full time} \times 8 \text{ hrs}) + (30 \text{ part time} \times 4 \text{ hrs}) / 8$$

So, essentially, the 30 part time/hoteling employees become a part of the FTE count (calculation) and is not in addition to, or subtraction from the actual number of full time employees.

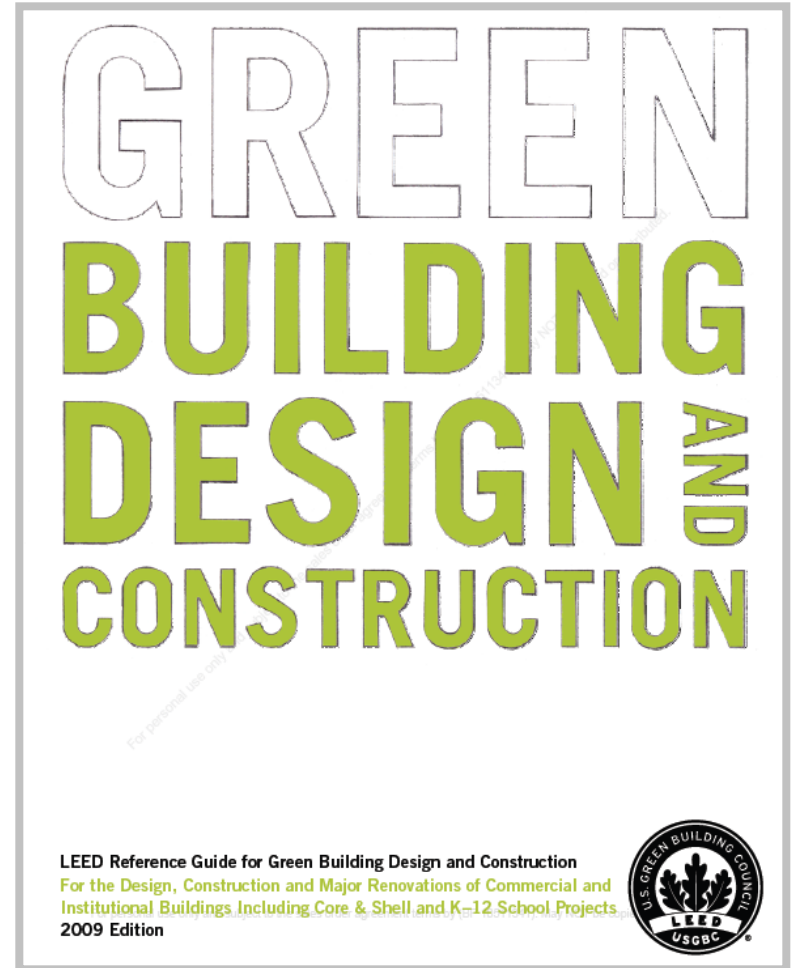
The FTE is 403.



LEED Credit Structure

Other Credit Sections in Reference Guide:

1. Benefits & Issues to Consider
2. Related Credits
3. Summary of Reference Standards
4. Implementation
5. Timeline & Team
6. Calculations
7. Documentation Guidance
8. Examples
9. Exemplary Performance
10. Regional Variations
11. O & M Considerations
12. Resources
13. Definitions



LEED Credit Structure

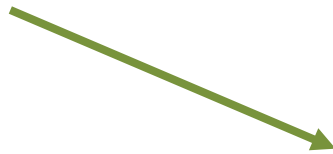
§ Intent



§ Requirements



§ Potential Technologies & Strategies



SS Credit 7.1: Heat Island Effect—Nonroof

1 Point

Intent

To reduce heat islands¹ to minimize impacts on microclimates and human and wildlife habitats.

Requirements

OPTION 1

Use any combination of the following strategies for 50% of the site hardscape (including roads, sidewalks, courtyards and parking lots):

- Provide shade from the existing tree canopy or within 5 years of landscape installation. Landscaping (trees) must be in place at the time of occupancy.
- Provide shade from structures covered by solar panels that produce energy used to offset some nonrenewable resource use.
- Provide shade from architectural devices or structures that have a solar reflectance index² (SRI) of at least 29.
- Use hardscape materials with an SRI of at least 29.
- Use an open-grid pavement system (at least 50% pervious).

OR

OPTION 2

Place a minimum of 50% of parking spaces under cover³. Any roof used to shade or cover parking must have an SRI of at least 29, be a vegetated green roof or be covered by solar panels that produce energy used to offset some nonrenewable resource use.

Potential Technologies & Strategies


Employ strategies, materials and landscaping techniques that reduce the heat absorption of exterior materials. Use shade (calculated on June 21, noon solar time) from native or adapted trees and large shrubs, vegetated trellises or other exterior structures supporting vegetation. Consider using new coatings and integral colorants for asphalt to achieve light-colored surfaces instead of blacktop. Position photovoltaic cells to shade impervious surfaces.

Consider replacing constructed surfaces (e.g., roof, roads, sidewalks, etc.) with vegetated surfaces such as vegetated roofs and open grid paving or specify high-albedo materials, such as concrete, to reduce heat absorption.

Credit weightings (points) are based on **Environmental Impacts & Human Benefits**



Creating a LEED Online Account



Welcome to LEED-Online

The login below is designed to allow Project Administrators and Team Members access to the LEED-Online.

- If you are a Project Administrator, please login below to manage the entire Project Certification process.
- If you are a Project Team member, please be sure your Project Administrator has assigned you to your project; then login below to manage credits which are assigned to you.
- For information on the LEED certification process [click here](#).
- For sample LEED letter templates [click here](#).

LOGIN

LEED-Online uses the same login as the USGBC Web site. If you experience problems logging in, please contact usgbcinfo@usgbc.org.

Email Address:

Password:

[Forgot password? Click here](#)

DON'T HAVE AN ACCOUNT?

Register a new account with USGBC.

A USGBC Web Site username and password is required to access LEED-Online. Additionally, your Project Administrator must add you to a valid LEED Project.

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LEARN MORE ABOUT LEED RATING SYSTEMS

LEED for New Construction Learn more ▶	LEED for Existing Buildings Learn more ▶	LEED for Commercial Interiors Learn more ▶	LEED for Core and Shell Learn more ▶	LEED for Homes Learn more ▶	LEED for Neighborhood Development Learn more ▶
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Sign Up Members on LEED Online

The person who registers the project will be automatically assigned the role of 'Project Team Administrator'

The 'Project Team Administrator' has full access to LEED Online and can invite team members to join the project and assign them roles

The screenshot shows the 'TEAM ADMIN' interface for a 'DESIGN APPLICATION'. At the top, there is a navigation bar with tabs for Registration, Design Application (selected), Design Review, Design Appeal, Design Appeal Review, Construction Application, Construction Review, Construction Appeal, Construction Appeal Review, and Certification/Detail. Below the navigation bar, the 'PROJECT TEAM' section is displayed, showing a list of team members with their roles and actions. The 'INVITE SOMEONE TO JOIN THIS PROJECT' section is also visible, featuring an input field for an email address and a 'Send Invitation' button, which is circled in green. The 'MANAGE TEAM ROLES' section is partially visible at the bottom.

First Name	Last Name	Organization	Project Access	Action
Steven	Schottenfeld	BCCI Construction Company	Project Team Manager	Manage Roles Remove User
Jourdan	Younis	BCCI Construction	Project Team Administrator	
Pierce	Holstrom	United Mechanical, Inc.	HVAC Engineer	Manage Roles Remove User
Nick	Marcyan	Interface Engineering, Inc.		Manage Roles Remove User
Emel	Artar	AAi	Architect	Manage Roles Remove User
Joy	Zulueta	BCCI Construction	Project Team Manager	Manage Roles Remove User
Doreen	Baum	AAi	Architect	Manage Roles Remove User
Robert	Rooney	Akamai Technologies	Owner	Manage Roles Remove User
Ronald	Sanchez	Pribuss Engineering	Plumbing Engineer	Manage Roles Remove User
VAHE'	KOUYOUMDJIAN	VHK INC	Electrical Engineer	Manage Roles Remove User
Alexander	Spilger	BCCI Construction	Project Team Manager	Manage Roles Remove User

INVITE SOMEONE TO JOIN THIS PROJECT
Enter in an individual's email address and they will be invited to register as a USGBC user and will be provided with the Project Access code for this project. Once they have registered, you will be able to add them as a Project Team Member. If you are having trouble emailing team members, [click Here](#) to download instructions for joining this project.

Email Address: [Send Invitation](#)

MANAGE TEAM ROLES
Add, remove, and modify your project team roles. Once created, these roles can be identified for each project team member (defined above).

©USGBC



Getting Started: Registering a LEED Project

Required Information

- § Title
- § Address & Location
- § Anticipated Construction Start and End Dates
- § Rating System
- § Number of Projects to be Registered
- § Gross Project Square Footage
- § Confidential? (Yes or No)
- § Project Type (Hotel, Library, Restaurant, etc)
- § Certification Level

The screenshot shows the LEED ONLINE Project Registration interface. At the top, there is a navigation bar with buttons for "My Projects", "My Archives", "Register New Project" (which is highlighted), and "Project Transfer". Below the navigation bar, the page title is "Project Registration". A message states: "Registration information is used for reporting purposes. This information may be edited after the project is registered." The user is identified as "Project Admin: Alexander Spilger (aspilger@bcciconst.com)". A note indicates that asterisks denote required fields. The form includes the following fields: Project Title (40 characters), Address 1, Address 2, City, State/Province (dropdown), Country (USA), County, Zip / Postal Code, Anticipated Construction Start Date, Anticipated Construction End Date, Rating System (LEED-NC v2009), Number of LEED projects in application (1), Gross Project Square Footage, Is Project Confidential? (radio buttons for Yes/No), Would you like to notify your local chapter of this project registration? (radio buttons for Yes/No), Anticipated Project Type (dropdown), and Anticipated Certification Level (dropdown). The form is branded with the USGBC logo in the bottom right corner, along with "Back", "Next", and "Cancel" buttons.



Getting Started: CONSISTENCY

REGULARLY OCCUPIED SPACES vs. GROSS SQUARE FOOTAGE

Be consistent and know the difference



*For commercial buildings, LEED defines a regularly occupied space as an area where people sit or stand as they work. This excludes spaces like restrooms, stairwells, closets, utility rooms, and unoccupied equipment rooms.

© USGBC

LEED Online – Scorecard

Assigning Credits

Project Home Page [ID: 1000007402] - LEED Online

Alyson Hazzery | SITE USER | Log Off

Your Account | Help | Feedback | Release Notes | Legal | Sample Forms Download | GBCI | USGBC

Copyright © 2009-2010 USGBC

My Projects | My Archives | Register New Project | Project Transfer

Projects | Blocks | Volume | Pending Invitations | Search | Formal Inquiries

Skype

Palo Alto CA 94304 US | Registered 7/6/2010

D and C Preliminary Application

Refresh

Project ID 1000007402 | Access ID 3726910547181154

Project Administrator: Alexander Spilger

Overview | **Scorecard** | Timeline | Team Administration | Registration Details | Clarifications | Messages | Formal Inquiries

Add/Remove Credits | Print Scorecard | Project Comments

Total :- Credits Attempted : 42 Points Possible : 71 Points Attempted : 42 Points Awarded : 0 Points Denied : 0 Points Pending : 0

Category	#	d/c	RP	Credit Name	Attempted	Awarded	Pending	Denied	Status	Changed	Assignee	Form Version
PI	f1			Minimum Program Requirements	Y	-	-	-	✓	N	Dena Quinn	V03
PI	f2			Project Summary Details	Y	-	-	-	✓	N	Assign	V03
PI	f3			Occupant and Usage Plans	Y	-	-	-	✓	N	Assign	V03
PI	f4			Schedule and Overview Documents	Y	-	-	-	✓	N	Assign	V03
PI	f5			Previously LEED Certified Details	Y	-	-	-	✓	N	Assign	V03
SS	c2			Development Density and Community C...	6/6				✓	N	Alyson Hazzery	V03
SS	c3.1			Alternative Transportation-Public T...	7/6				✓	N	Melissa Wallin	V03
SS	c3.2			Alternative Transportation-Bicycle ...	2/2				✓	N	Melissa Wallin	V03
WE	p1			Water Use Reduction-20% Reduction	Y	-	-	-	✓	N	Alexander Spilger	V03
EA	p1			Fundamental Commissioning of the Bu...	Y	-	-	-	✓	N	Robert Crane	V03
EA	p2			Minimum Energy Performance	Y	-	-	-	✓	N	Hrach Krikorian	V03
EA	p3			Fundamental Refrigerant Management	Y	-	-	-	✓	N	Hrach Krikorian	V03
EA	c1.1			Optimize Energy Performance-Lighti...	1/1-5				✓	N	Tim Vanford	V03

LEED Online refers to this page view as the “LEED Scorecard”



LEED Online - Credit Templates



LEED 2009 for Commercial Interiors

IEQ CREDIT 7.2: THERMAL COMFORT - VERIFICATION

All fields and uploads are required unless otherwise noted.

ALL PROJECTS

- A permanent monitoring system will be installed to ensure that the building performance meets the desired comfort criteria as determined by IEQ Credit 7.1: Thermal Comfort - Design.

IEQ Credit 7.1: Thermal Comfort - Design Points Documented:

Anticipated date of occupancy:

A thermal comfort survey of project space occupants will be conducted between six and eighteen months after occupancy. The survey will collect anonymous responses about thermal comfort in the project space, including overall satisfaction with thermal performance and identification of thermal comfort-related problems.

A plan for corrective action will be developed in the case that 20% or more of the occupants are dissatisfied with thermal comfort in the project space. The plan will include measurement of relevant environmental variables in problem areas in accordance with ASHRAE Standard 55-2004, including, but not limited to the following:

1. Air temperature
2. Radiant temperature
3. Air speed
4. Humidity

REQUIRED SIGNATORY

Initial Here:

OWNER

Anticipated date of (initial) survey administration:

Upload IEQc7.2-1. Provide a sample of the questionnaire developed for the survey.

Upload

Files:

Describe the party/parties responsible for administering the survey including those responsible for setting up the survey, sending invitations, and collecting and analyzing survey results.

Each credit has its own unique template which must be completed and signed

Many credits also have documentation that must be uploaded



Which website to use when?

www.gbci.org

The screenshot shows the GBCI website homepage. At the top, it says "GREEN BUILDING CERTIFICATION INSTITUTE". Below that is a navigation menu with links for "About GBCI", "Professional Credentials", "Project Certification", "Resources", "Help", and "Newsroom". A search bar is also present. The main content area features a large orange banner with the text "NEW AT GBCI" on the left and three main announcements: "LEED PROJECT CERTIFICATION" (GBCI now administers project certification), "LEED ONLINE v3" (Faster, smarter, & a better user experience), and "LEED PROFESSIONAL CREDENTIALS" (GBCI introduces credentialing levels and specialties). Below the banner, there are sections for "Help write the new LEED Reviewer exam", "Looking for your LEED Professional logo?", and "LEED AP ID+C and LEED AP BD+C". A "GBCI News" sidebar on the right contains a "Free Upgrade to LEED 2009!" announcement.

LEED Online

The screenshot shows the LEED Online login page. At the top left is the USGBC logo. The main heading is "Welcome to LEED-Online". Below this, a message states: "The login below is designed to allow Project Administrators and Team Members access to the LEED-Online." A bulleted list provides instructions: "If you are a Project Administrator, please login below to manage the entire Project Certification process.", "If you are a Project Team member, please be sure your Project Administrator has assigned you to your project; then login below to manage credits which are assigned to you.", "For information on the LEED certification process click here.", and "For sample LEED letter templates click here." Below the list are two main sections: "LOGIN" and "DON'T HAVE AN ACCOUNT?". The "LOGIN" section includes a "LEED-Online uses the same login as the USGBC Web site. If you experience problems logging in, please contact leadinfo@usgbc.org." It features input fields for "Email Address:" and "Password:", a "Login" button, and a "Forgot password? Click here" link. The "DON'T HAVE AN ACCOUNT?" section says "Register a new account with USGBC." and "A USGBC Web Site username and password is required to access LEED-Online. Additionally, your Project Administrator must add you to a valid LEED Project." It includes a "Register a New Account" button. At the bottom, a "LEARN MORE ABOUT LEED RATING SYSTEMS" section lists six categories: "LEED for New Construction", "LEED for Existing Buildings", "LEED for Commercial Interiors", "LEED for Core and Shell", "LEED for Homes", and "LEED for Neighborhood Development", each with a "Learn more" link.

©USGBC

Also: www.usgbc.org



LEED PROJECT MANAGEMENT

LEED Documentation

Managing the documentation process . . .



. . . doesn't have to be difficult!!

Integrated Project Delivery



Energy
Modeler

Landscape
Designer

HVAC
Engineer

Architect

Contractor

Developer



SUSTAINABLE SITES

d	SS Credit 2: Development Density & Community Connectivity	Y
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	Requirements	Resp	Status	Due
Option A	Complete calculation in the LEED Letter Template demonstrating credit achievement including a listing of site and buiding areas for all surrounding sites within the density radius.	Architect		
	Provide an Area Plan that shows the building location and surrounding buildings within the density radius of the project. Include graphic scale.	Architect		
	Sign LEED Letter Template	Architect		

	Requirements	Resp	Status	Due
Option B	Upload to LEED Online an Area Plan that highlights the building location, the residential zone or neighborhood, and 10 or more of the basic services located within a half mile of the project space, labels the surrounding buildings within a half mile for coordination with the information provided in the table found in the online template, and includes a graphic scale	Architect		
	Provide the project site and building area (sq.ft.)	Architect		
	Submit a listing (including business name and type) of all community services within the 1/2 mile radius.	Architect		
	Complete and sign LEED Letter Template	Architect		

Integrated Project Delivery - LEED Schedule

bcci
builders

Salesforce.com
One Cal
San Francisco, CA

Preliminary Project Schedule Sun 9/14/08

ID	Task Name	Duration	Start	Finish	% Complete	Resource	Initials	3, 200	Oct	4, 200	1, 200	2, 200	3, 200	4, 200	1, 201	2, 201
1	Salesforce.com, One Cal, San Francisco	425 days	Fri 8/15/08	Thu 4/1/10	1%											
2	LEED Site Selection Phase	1 day	Fri 8/15/08	Fri 8/15/08	100%											
3	Meeting to Determine Client Goals	1 day	Fri 8/15/08	Fri 8/15/08	100%	SC	l	8/15								
4	LEED Schematic Design Phase	17 days	Thu 9/4/08	Fri 9/26/08	23%											
5	LEED Charrette	1 day	Thu 9/4/08	Thu 9/4/08	100%	SC	l	9/4								
6	Serve as Resource for Design Team	10 days	Fri 9/5/08	Thu 9/18/08	55%	SC	am	9/18								
7	Update LEED Priorities Matrix	1 day	Fri 9/5/08	Fri 9/5/08	100%	SC	l	9/5								
8	Identify and Evaluate Necessary Modeling Services	10 days	Mon 9/8/08	Fri 9/19/08	0%	SC	oec	9/18								
9	Project Registration	1 day	Mon 9/15/08	Mon 9/15/08	0%	SC	l	9/15								
10	Project Invitations	4 days	Tue 9/16/08	Fri 9/19/08	0%	AF	l	9/18								
11	Work with Architect to Draft Project Narrative	5 days	Mon 9/22/08	Fri 9/26/08	0%	A	ath	9/28								
12	LEED Design Development Phase	58 days	Mon 9/15/08	Wed 12/3/08	0%											
13	Furniture LEED Coordination Meeting	1 day	Mon 9/15/08	Mon 9/15/08	0%	SC	l	9/15								
14	Update LEED Action Items	1 day	Fri 9/16/08	Tue 9/16/08	0%	SC	oec	9/18								
15	Building/MEP/LEED Coordination Meeting 1 of 2	1 day	Thu 9/18/08	Thu 9/18/08	0%	SC	o	9/18								
16	Review Commissioning Proposals (EA P1) - Owner to draft Basis of Design	10 days	Tue 9/16/08	Mon 9/29/08	0%	SC	l	9/29								
17	Building/MEP/LEED Coordination Meeting 2 of 2	1 day	Fri 10/3/08	Fri 10/3/08	0%	SC	o	10/3								
18	Specifications Resource	5 days	Mon 10/6/08	Fri 10/10/08	0%	SC	o	10/10								
19	Review Lease	1 day	Wed 9/24/08	Wed 9/24/08	0%	O	o	9/24								
20	Administrative Credits and Prerequisites	10 days	Thu 9/25/08	Wed 10/8/08	0%											
21	Confirm Lease Duration and Documentation	5 days	Thu 9/25/08	Wed 10/1/08	0%	SC, O	l	10/1								
22	Confirm Local Recycling Contract and Space Dedication (MR P1)	3 days	Thu 10/2/08	Mon 10/6/08	0%	SC	R	10/8								
23	SS Site Selection, Roof Credits (SS 1)	5 days	Thu 10/2/08	Wed 10/8/08	0%	SC	l	10/8								
24	SS Development Density & Community Connectivity Calculations (SS 2)	5 days	Thu 10/2/08	Wed 10/8/08	0%	A	l	10/8								
25	SS Alternative Transportation, Public Transportation Access Calculations (SS 3.1)	5 days	Thu 10/2/08	Wed 10/8/08	0%	A	l	10/8								
26	SS Alternative Transportation, Bicycle Storage & Changing Rooms Calculations (SS 3.2)	5 days	Thu 10/2/08	Wed 10/8/08	0%	A	l	10/8								
27	SS Alternative Transportation, Parking Calculations (SS 3.3)	5 days	Thu 10/2/08	Wed 10/8/08	0%	A	l	10/8								
28	MEP and IT Coordination and Alignment	34 days	Wed 9/17/08	Mon 11/3/08	0%											
29	Plumbing Engineer (WE 1.1, 1.2, SS 3.2, ID)	33 days	Wed 9/17/08	Fri 10/31/08	0%	ID	l	10/31								
30	Strategy	23 days	Wed 9/17/08	Fri 10/17/08	0%	SC	l	10/17								
31	Pricing	5 days	Mon 10/20/08	Fri 10/24/08	0%	F	l	10/24								

Project: Salesforce.com, One Cal
Date: Sun 9/14/08

Task: Milestone ◆
 Critical Task: Summary ◀▶
 Progress: Rolled Up Task

Rolled Up Critical Task: Split
 Rolled Up Milestone: ◇ External Tasks
 Rolled Up Progress: Project Summary

Group By Summary: ▶
 Deadline: ↓



Integrated Project Delivery – Reporting Tools



File Edit Exchange Word Processor Print Tools Window Help

Navigation Pane

Doc. Control

- Closeout Log
- Drawing Packages
- Drawings and Specifications
- Meeting Minutes
- Request For Information
- Submittal Packages
- Submittal Register
- Submittal Transmittal
- Transmittals and Correspondence Log

Purchase

Cost Control

Doc Control

Field Admin

Reports

Number	Revision	Description	NA	Returned	Closed
00029	0	PL-1 High Pressure Decorative Laminate Sa	NA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

General LEED

Material Value: 200.00 LEED Item Closed

MRc4 Applicable

MRc4 Post Consumer: 0

MRc4 Pre-Consumer: 90

MRc4 Cutsheet Provided: Cutsheet

MRc5 Applicable

MRc5 Manufacturer (mi): 30

MRc5 Distance Between Project Extraction Harvest (mi): 365

MRc5 Cutsheet Provided: Manuf. Literature

MRc6 Applicable

MRc6 % by Weight:

MRc6 Cutsheet Provided:

MRc7 Applicable

MRc7 % of New Wood: 100

MRc7 % of FSC Wood: 0

MRc7 COC #: na

MRc7 Cutsheet Provided: None

MRc7 Invoice: Y

IEQc4-1 Applicable

IEQc4-1 VOC Content:

IEQc4-1 Cutsheet Provided:

IEQc4-2 Applicable

IEQc4-2 VOC Content:

IEQc4-2 Cutsheet Provided:

IEQc4-3 Applicable

IEQc4-3 Compliance:

IEQc4-3 VOC Content:

IEQc4-3 Cutsheet Provided:

IEQc4-4 Applicable

IEQc4-4 Wood Product No Added UF: Y

IEQc4-4 Cutsheet Provided: Cutsheet

Add Save Delete Refresh Close Cancel



Integrated Project Delivery – Reporting Tools



Project Manager: Steve Schottenfeld

Asst. Project Manager: Lindmay Morales

Project # 2010-0318-182

Submittal Register Number	Spec Section	LEED Submittal Description	Material Value	MRC4 Post (%)	MRC4 Pre (%)	MRC4 Cutsheet	MRC5 Manuf Miles	MRC5 Extract Miles	MRC5 Cutsheet	MRC6 % By Weight	MRC6 Cutsheet	MRC7 New %	MRC7 FSC %	MRC7 COC#	MRC7 Cutsheet	MRC7 Invoice	EQ04.1 VOC (g/L)	IEQ04.1 Cutsheet	EQ04.2 VOC (g/L)	IEQ04.2 Cutsheet	EQ04.4 No UF	IEQ04.4 Cutsheet	LEED Item Closed
00026	09550	Sample 1: WD-1, TerraMai, Fishtail Oak, 5/8" thick x 2-9/16" wide x 6' long, Finished	\$15,000	100	0	Manuf. Literature	458	5,500	Cutsheet	NA	NA	100	100	SCS-CCC-001014	Manuf. Literature	Y	NA	NA	NA	NA	Y	Cutsheet	Y
00027	07723	FWP-1 Fabric Wrapped Panel Samples - Accutrack, Carnegie Fabric, 1/2" Micro Tackable, Xorel Strie No. 6423	\$1,450	0	0	None	501	501	None	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Y
00029	05220	PL-1 High Pressure Decorative Laminate Samples - Wilsonart, 1573-60, Frosty White	\$700	0	50	Cutsheet	30	365	Manuf. Literature	NA	NA	100	0	na	None	Y	NA	NA	NA	NA	Y	Cutsheet	Y
00034	03800	GL-1 Glazing Samples - 1/2" Thick, Clear, Tempered	\$1,601	0	0	None	400	501	None	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Y
00051	09500	Type B & C Acoustical Ceiling Tile Samples, Armstrong, Ultima, 2' x 2', #1915	\$6,100	4	66		501	501	Cutsheet	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Y
00054	09500	4" Acoustical Ceiling Trim & Shadow Mold Samples - Axion	\$800	50	0	Cutsheet	499	501	Cutsheet	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Y
00055	09500	Acoustical Ceiling Grid Samples - Armstrong, Suprafine, 9/16"	\$4,750	23	7	Cutsheet	500	501	Cutsheet	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Y
00303	05220	LEED - 3M Woodworking 20 Spray Adhesive	\$3	0	0	None	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	53	MSDS	NA	NA	NA	NA	Y
00304	09500	Type B & C Acoustical	\$2,000	4	66	Cutsheet	501	501	Cutsheet	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Y



BCCI Construction - LEED CI Market Study

Average Project Score = 29 Points

Possible Points: 57

Certified 21 to 26 points Silver 27 to 31 points Gold 32 to 41 points Platinum 42 or more points

Sustainable Sites		Possible Points: 7
94%	1 pt. Credit 1	Site Selection 1 to 3
25%	2 pt.	
18%	3 pt.	
86%	Credit 2	Development Density and Community Connectivity 1
98%	Credit 3.1	Alternative Transportation, Public Transportation Access 1
66%	Credit 3.2	Alternative Transportation, bicycle Storage & Changing Rooms 1
57%	Credit 3.3	Alternative Transportation, Parking Availability 1

Water Efficiency		Possible Points: 2
68%	Credit 1.1	Water Use Reduction, 20% Reduction 1
59%	Credit 1.2	Water Use Reduction, 30% Reduction 1

Energy & Atmosphere		Possible Points: 12
100%	Prereq 1	Fundamental Commissioning
100%	Prereq 2	Minimum Energy Performance
100%	Prereq 3	CFC Reduction in HVAC&R Equipment
57%	1 pt. Credit 1.1	Optimize Energy Performance, Lighting Power 1 to 3
38%	2 pt.	
16%	3 pt.	
54%	Credit 1.2	Optimize Energy Performance, Lighting Controls 1
70%	1 pt. Credit 1.3	Optimize Energy Performance, HVAC 1 to 2
18%	2 pt.	
66%	1 pt. Credit 1.4	Optimize Energy Performance, Equipment & Appliances 1 to 2
45%	2 pt.	
36%	Credit 2	Enhanced Commissioning 1
48%	1 pt. Credit 3	Energy Use, Measurement & Payment Accountability 1 to 2
32%	2 pt.	
71%	Credit 4	Green Power 1

Materials & Resources		Possible Points: 14
100%	Prereq 1	Storage and Collection of Recyclables
63%	Credit 1.1	Tenant Space, Long Term Commitment 1
20%	Credit 1.2	Building Reuse, Maintain 40% of Interior Non-Structural Components 1
16%	Credit 1.3	Building Reuse, Maintain 60% of Interior Non-Structural Components 1
84%	Credit 2.1	Construction Waste Management, Divert 50% From Landfill 1
61%	Credit 2.2	Construction Waste Management, Divert 75% From Landfill 1
22%	Credit 3.1	Resource Reuse, 5% 1
16%	Credit 3.2	Resource Reuse, 10% 1
39%	Credit 3.3	Resource Reuse, 30% Furniture and Furnishings 1
75%	Credit 4.1	Recycled Content, 10% (post-consumer + 1/2 pre-consumer) 1
48%	Credit 4.2	Recycled Content, 20% (post-consumer + 1/2 pre-consumer) 1
59%	Credit 5.1	Regional Materials, 20% Manufactured Regionally 1
20%	Credit 5.2	Regional Materials, 10% Extracted and Manufactured Regionally 1
16%	Credit 6	Rapidly Renewable Materials 1
23%	Credit 7	Certified Wood 1

Indoor Environmental Quality		Possible Points: 17
100%	Prereq 1	Minimum IAQ Performance
100%	Prereq 2	Environmental Tobacco Smoke (ETS) Control
32%	Credit 1	Outdoor Air Delivery Monitoring 1
46%	Credit 2	Increased Ventilation 1
68%	Credit 3.1	Construction IAQ Management Plan, During Construction 1
45%	Credit 3.2	Construction IAQ Management Plan, Before Construction 1
88%	Credit 4.1	Low-Emitting Materials, Adhesives & Sealants 1
75%	Credit 4.2	Low-Emitting Materials, Paints and Coatings 1
95%	Credit 4.3	Low-Emitting Materials, Carpet Systems 1
57%	Credit 4.4	Low-Emitting Materials, Composite Wood and Laminate Adhesives 1
41%	Credit 4.5	Low-Emitting Materials, Systems Furniture and Seating 1
20%	Credit 5	Indoor Chemical & Pollutant Source Control 1
70%	Credit 6.1	Controllability of Systems, Lighting 1
25%	Credit 6.2	Controllability of Systems, Temperature and Ventilation 1
84%	Credit 7.1	Thermal Comfort, Compliance 1
61%	Credit 7.2	Thermal Comfort, Monitoring 1
55%	Credit 8.1	Daylight & Views, Daylight 75% of Spaces 1
27%	Credit 8.2	Daylight & Views, Daylight 90% of Spaces 1
50%	Credit 8.3	Daylight & Views, Views for 90% of Seated Spaces 1

Innovation & Design Process		Possible Points: 5
77%	Credit 1.1	Innovation in Design: Provide Specific Title 1
69%	Credit 1.2	Innovation in Design: Provide Specific Title 1
75%	Credit 1.3	Innovation in Design: Provide Specific Title 1
61%	Credit 1.4	Innovation in Design: Provide Specific Title 1
96%	Credit 2	LEED Accredited Professional 1

NOTE: Our comprehensive market study analyzes the results of every LEED for Commercial Interiors (CI) Certified project in California, Washington & Oregon. This 1-page summary scorecard illustrates the percentage of those projects that achieved each LEED credit and can be used to help project teams identify credits that may be more easily pursued. For more information about our sustainability program, LEED services or to obtain the most up-to-date version of this study, please contact Bill Groth at BCCI Construction. email: bgroth@bcciconst.com phone: 415.817.5100



Sustainable Sites Possible Points: 26

0%	Credit 1	LEED Certified Design and Construction
67%	Credit 2	Building Exterior and Hardscape Management Plan
89%	Credit 3	Integrated Pest Management, Erosion Control, and Landscape Management Plan
56%	Credit 4.1	Alternative Commuting Transportation, 10%
44%	Credit 4.2	Alternative Commuting Transportation, 25%
22%	Credit 4.3	Alternative Commuting Transportation, 50%
22%	Credit 4.4	Alternative Commuting Transportation, 75% or greater
11%	Credit 5	Reduced Site Disturbance - Protect or Restore Open Space
11%	Credit 6	Stormwater Management
78%	Credit 7.1	Heat Island Reduction - Non-Roof
56%	Credit 7.2	Heat Island Reduction - Roof
22%	Credit 8	Light Pollution Reduction

Water Efficiency Possible Points: 14

	Prereq 1	Minimum Indoor Plumbing Fixture and Fitting Efficiency
89%	Credit 1.1	Water Performance Measurement - whole building metering
14%	Credit 1.2	Water Performance Measurement - submetering
78%	Credit 2.1	Additional Indoor Plumbing Fixture and Fitting Efficiency, 10%
44%	Credit 2.2	Additional Indoor Plumbing Fixture and Fitting Efficiency, 20%
22%	Credit 2.3	Additional Indoor Plumbing Fixture and Fitting Efficiency, 30%
33%	Credit 3.1	Water Efficient Landscaping - Reduce Potable Water Use by 30%
22%	Credit 3.2	Water Efficient Landscaping - Reduce Potable Water Use by 75%
33%	Credit 3.3	Water Efficient Landscaping - Reduce Potable Water Use by 100%
78%	Credit 4.1	Cooling Tower Water Management - Chemical Management
11%	Credit 4.2	Cooling Tower Water Management - Non-Potable Water Source Use

Energy & Atmosphere Possible Points: 35

	Prereq 1	Energy Efficiency BMPs - Planning, Documentation, and Opportunity Assessment
	Prereq 2	Minimum Energy Efficiency Performance
	Prereq 3	Refrigerant Management - Ozone Protection
100%	Credit 1.1 & 1.2	Optimize Energy Efficiency Performance, Energy Star 71-73
100%	Credit 1.3 & 1.4	Optimize Energy Efficiency Performance, Energy Star 74-75
100%	Credit 1.5 & 1.6	Optimize Energy Efficiency Performance, Energy Star 76-77
100%	Credit 1.7 & 1.8	Optimize Energy Efficiency Performance, Energy Star 78-79
89%	Credit 1.9 & 1.10	Optimize Energy Efficiency Performance, Energy Star 80-81
39%	Credit 1.11 & 1.12	Optimize Energy Efficiency Performance, Energy Star 82-83
33%	Credit 1.13 & 1.14	Optimize Energy Efficiency Performance, Energy Star 85-87
6%	Credit 1.15 & 1.16	Optimize Energy Efficiency Performance, Energy Star 89-91
0%	Credit 1.17 & 1.18	Optimize Energy Efficiency Performance, Energy Star 93-95
89%	Credit 2.1	Existing Building Commissioning - Investigation and Analysis
78%	Credit 2.2	Existing Building Commissioning - Implementation
56%	Credit 2.3	Existing Building Commissioning - Ongoing Commissioning
78%	Credit 3.1	Performance Measurement - Building Automation System
11%	Credit 3.2	Performance Measurement - System-Level Metering, 40%
11%	Credit 3.3	Performance Measurement - System-Level Metering, 80%
22%	Credit 4.1	Renewable Energy - On-site 3% / Off-site 25%
11%	Credit 4.2	Renewable Energy - On-site 6% / Off-site 50%
11%	Credit 4.3	Renewable Energy - On-site 9% / Off-site 75%
0%	Credit 4.4	Renewable Energy - On-site 12% / Off-site 100%
56%	Credit 5	Refrigerant Management
89%	Credit 6	Emissions Reduction Reporting

Materials & Resources Possible Points: 10

	Prereq 1	Sustainable Purchasing Policy
	Prereq 2	Solid Waste Management Policy
11%	Credit 1.1	Sustainable Purchasing - Ongoing Consumables, 40%
11%	Credit 1.2	Sustainable Purchasing - Ongoing Consumables, 60%
0%	Credit 1.3	Sustainable Purchasing - Ongoing Consumables, 80%
11%	Credit 2.1	Sustainable Purchasing - Durable Goods, electric
11%	Credit 2.2	Sustainable Purchasing - Durable Goods, furniture
22%	Credit 3	Sustainable Purchasing - Facility Alterations and Additions
33%	Credit 4.1	Sustainable Purchasing - Reduced Mercury in Lamps, 90 pg/lum-hr
33%	Credit 4.2	Sustainable Purchasing - Reduced Mercury in Lamps, 70 pg/lum-hr
11%	Credit 5	Sustainable Purchasing - Food
89%	Credit 6	Solid Waste Management - Waste Stream Audit
89%	Credit 7.1	Solid Waste Management - Ongoing Consumables, 50%
22%	Credit 7.2	Solid Waste Management - Ongoing Consumables, 70%
67%	Credit 8	Solid Waste Management - Durable Goods
67%	Credit 9	Solid Waste Management - Facility Alterations and Additions

Indoor Environmental Quality Possible Points: 15

	Prereq 1	Outdoor Air Introduction and Exhaust Systems
	Prereq 2	Environmental Tobacco Smoke (ETS) Control
	Prereq 3	Green Cleaning Policy
78%	Credit 1.1	IAQ Best Management Practices - IAQ Management Program
11%	Credit 1.2	IAQ Best Management Practices - Outdoor Air Delivery Monitoring
44%	Credit 1.3	IAQ Best Management Practices - Increased Ventilation
67%	Credit 1.4	IAQ Best Management Practices - Reduce Particulates in Air Distribution
44%	Credit 1.5	IAQ Best Management Practices - Facility Alterations and Additions
67%	Credit 2.1	Occupant Comfort - Occupant Survey
56%	Credit 2.2	Occupant Comfort - Occupant Controlled Lighting
11%	Credit 2.3	Occupant Comfort - Thermal Comfort Monitoring
44%	Credit 2.4	Occupant Comfort - Daylight and Views, 50% Daylight / 45% Views
11%	Credit 2.5	Occupant Comfort - Daylight and Views, 75% Daylight / 90% Views
89%	Credit 3.1	Green Cleaning - High Performance Cleaning Program
89%	Credit 3.2	Green Cleaning - Custodial Effectiveness Assessment, < 3
100%	Credit 3.3	Green Cleaning - Custodial Effectiveness Assessment, < 2
89%	Credit 3.4	Green Cleaning - Sustainable Cleaning Products and Materials, 30%
89%	Credit 3.5	Green Cleaning - Sustainable Cleaning Products and Materials, 60%
22%	Credit 3.6	Green Cleaning - Sustainable Cleaning Products and Materials, 90%
100%	Credit 3.7	Green Cleaning - Sustainable Cleaning Equipment
78%	Credit 3.8	Green Cleaning - Entryway Systems
89%	Credit 3.9	Green Cleaning - Indoor Integrated Pest Management

Innovation in Operations Possible Points: 6

89%	Credit 1.1	Innovation in Operations
78%	Credit 1.2	Innovation in Operations
56%	Credit 1.3	Innovation in Operations
44%	Credit 1.4	Innovation in Operations
100%	Credit 2	LEED® Accredited Professional
89%	Credit 3	Documenting Sustainable Building Cost Impacts

Regional Priority Possible Points: 4

?	Credit 1.1	Regional Priority
?	Credit 1.2	Regional Priority
?	Credit 1.3	Regional Priority
?	Credit 1.4	Regional Priority



Working with LEED online....



Managing LEED Online

LEED Letter Template – SSc1 Site Selection

Template information is not processed until the project is submitted to the USGBC during the review process.



LEED 2009 for Commercial Interiors SS Credit 1: Site Selection

All fields and uploads are required unless otherwise noted.

ALL OPTIONS

Select one of the following:

- Option 1. The project space is located in a LEED certified building.
- Option 2. The project space is located in a building with other environmentally beneficial characteristics.

BUILDING WITH OTHER ENVIRONMENTALLY BENEFICIAL CHARACTERISTICS

Select all that apply:

- Path 1. Brownfield Redevelopment (1 point)
- Path 2. Stormwater Design - Quantity Control (1 point)
- Path 3. Stormwater Design - Quality Control (1 point)
- Path 4. Heat Island Effect - NonRoof (1 point)
- Path 5. Heat Island Effect - Roof (1 point)
- Path 6. Light Pollution Reduction (1 point)
- Path 7. Water Efficient Landscaping - Reduce by 50% (2 points)
- Path 8. Water Efficient Landscaping - No Potable Use or No Irrigation (2 points)
- Path 9. Innovative Wastewater Technologies (2 points)
- Path 10. Water Use Reduction - 30% Reduction (1 point)
- Path 11. Onsite Renewable Energy (up to 2 points)
- Path 12. Exemplary Performance and Other Quantifiable Environmental Performance (1 point)

Provide the following information as it pertains to the building in which the project is located.

PATH 4. HEAT ISLAND EFFECT - NONROOF

A site or landscape plan identifying hardscape and/or parking areas is required to document credit compliance. The site plan below is a linked submittal. (If no document is present, upload a site plan which meets the above requirements.)

Upload L-2. Provide the site plan for the project.

Upload

Files: 0

LEED 2009 for Commercial Interiors
SS Credit 1: Site Selection

BETA

Page 1 of 3

Save Form

Version 3.0

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Select one of the following:

- The site plan above identifies the hardscape and/or parking areas.
- A different site plan is better suited to satisfy this requirement.

Select all that apply:

- A combination of hardscape mitigation strategies cover at least 30% of the site hardscape.
- At least 50% of parking spaces are under cover.
- An open grid pavement system (less than 50% impervious) covers at least 50% of the parking lot area.

Path 4: Heat Island Effect - Nonroof Points Documented:

PATH 5. HEAT ISLAND EFFECT - ROOF

Select one of the following:

- The project team has installed roofing with high SRI materials for a minimum of 75% of the roof area.
- The project team has installed a vegetated roof covering at least 50% of the roof area.
- The project team has installed a combination of high SRI materials and vegetated roof.

A Licensed Professional Exemption (LPE) for a Registered Architect is available in lieu of a roof plan and product information.

Select one of the following:

- Streamlined Path: LPE (RA)
- Full Documentation Path



Upload SSc1-5: Provide the roof plan. (Optional)

Upload Files: 0

Upload SSc1-6: Provide product information in the form of manufacturer cutsheets. (Optional)

Upload Files: 0

Table SSc1-4: High SRI Roof Materials

Material Description / ID	Square Footage (sf)	Reflectance (0-1)	Emissance (0-1)	SRI value (actual or calculated)	Roof Slope	Percent compliant (%)
				Calculate		0
Total roof area (sf) (including mechanical equipment, photovoltaic panels, and skylights)						
SRI compliant area (must be at least 75%)						0

Add Row Delete Row

Path 5: Heat Island Effect - Roof Points Documented:

ADDITIONAL DETAILS

- Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.
- The project team is using an alternative compliance approach in lieu of standard submittal paths.

SUMMARY

SS Credit 1: Site Selection Points Documented:




Managing LEED Online – Project Templates

LEED Letter Template – MRc4: Recycled Content

Material and furniture costs
to be included in template



 **LEED 2009 for Commercial Interiors**
MR CREDIT 4: RECYCLED CONTENT
Project # 1000013364 GSA Center 21
All fields and uploads are required unless otherwise noted.

ACTUAL MATERIALS COST

Actual materials cost, excluding labor and equipment:
Note: Includes hard costs for CSI MasterFormat 2004 Divisions 03-10, 31 (section 31.60.00 Foundations) and 32 (sections 32.10.00 Paving, 32.30.00 Site Improvements, and 32.50.00 Planting) only. \$

Actual materials cost for furniture, excluding labor and equipment:
Note: Includes hard costs for CSI MasterFormat 2004 Division 12 only. \$

Indicate the credits you wish to attempt:

- MR Credit 3.1: Materials Reuse
- MR Credit 3.2: Materials Reuse - Furniture and Furnishings
- MR Credit 4: Recycled Content
- MR Credit 5: Regional Materials
- MR Credit 6: Rapidly Renewable Materials
- MR Credit 7: Certified Wood

Table L-3. CSI Divisions 03-10, 31.60.00, 32.10.00, 32.30.00, and 32.90.00 materials

Fill in all columns with applicable material data for all attempted credits among MR Credits 3.1 and 4-7. Exclude materials included in MR Credit 1.2 Building Reuse - Maintain Interior Nonstructural Components and all mechanical, electrical and plumbing (MEP) components and equipment.

Note: This table will carry materials data across MR credits 3.1 and 4-7 to ensure consistent documentation; however, the summary table in this form only pertains to this credit. For more column information, hover cursor over column heading.

Total CSI Divisions 03-10, 31.60.00, 32.10.00, 32.30.00, and 32.90.00 Materials Cost

LEED 2009 for Commercial Interiors
MR Credit 4: Recycled Content

Page 1 of 4

Version 3.0
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Project templates – Cont.

General			MRc3.2		MRc4		MRc5			MRc6		MRc7		20%	
Name/Description of Material / Item	Cost per Item (\$)	Number of Furniture Items Purchased	Manufacturer / Vendor Name	% Salvaged / Reused *	% Post	% Pre	% Reg	Extc Dist (miles) **	M/c Dist (miles) **	Location Info Source (s)	% Ren	Ren Material Type	% New Wood	% FSC	Cut ***
Total (\$)				0	0	0	0	0	0	0	0	0	0	0	0
Sustainable criteria value (\$)				0	0	0	0	0	0	0	0	0	0	0	0
Sustainable criteria percentage (%)				0	0	0	0	0	0	0	0	0	0	0	0

Add Row Delete Row

Table Indicator: Incomplete

* Cost, in the case of a salvaged item, can be the actual or replacement value, but must be consistent with the cost used to calculate the total materials cost for the project.

** In lieu of exact distances, estimated distances may be used. If estimated distances are used, avoid the manufacturer's letter stating that the material/product was manufactured and/or extracted/recovered/harvested within 500 miles of the project site. For items that are regionally manufactured but only partially regionally extracted, split the material/product into two rows. Determine the cost for each row using the percentage by weight of each regional criterion.

*** Product cutsheets uploaded for documentation of credit compliance should include material data for all applicable credits.

Table MRc4-1. Credit Summary for MR Credit 4

Total sustainable criteria value (\$)	0
Total materials cost (\$) (less sustainable criteria value for MR Credits 3.1 and 3.2, if attempted)	0
Combined value of postconsumer + 1/2 preconsumer recycled content as percentage of total materials cost (%)	

Note: Must be at least 10% to document 1 point, 20% to document 2 points, 30% to document exemplary performance.

The recycled material claimed in Tables L-3 and L-4 meets the ISO 14021 definitions of post- and pre-consumer material.

Upload MRc4-1. Provide cutsheets for 20% of the materials (by cost) to support pre- and post-consumer recycling content claims.

Upload Files: 0

Percent cutsheets provided for MR Credit 4

0 %

ADDITIONAL DETAILS

- Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.
- The project team is using an alternative compliance approach in lieu of standard submittal paths and/or documentation.

SUMMARY

MR Credit 4. Recycled Content Points Documented: 0

MR Credit 4. Recycled Content Exemplary Performance Points Documented: N

The project team reserves one point in the Innovation in Design credit category for exemplary performance in MR Credit 4.

Save Form

Some calculations are built in to template



Managing LEED Online

Additional Documentation

In addition to the documentation required for individual credits, there are 6 general items which must also be uploaded to LEED Online prior to submitting for final certification.

1. Project site plan
2. Building floor plans
3. Elevations
4. Project rendering
5. Short project description
6. Photos of completed project

General summary information must also be entered such as project square footage, estimated cost, etc.



Managing LEED Online

Credit Interpretation Requests

Established for projects seeking technical and administrative guidance on how LEED credits apply to their projects.

Each Credit Interpretation Request costs \$220

CIRs may typically only reference one credit

The screenshot shows the LEED-Online Credit Interpretations web application. The browser title is "LEED-Online: Credit Interpretations - Mozilla Firefox". The address bar shows the URL "http://leedonline.usgbc.org/Project/CIRMain.aspx". The page features a navigation menu with options like "LEED-Online Home", "Credit Scorecard & Status", "Project Summary", "Team Admin", "Documents", "CIR Detail", and "Help". A secondary menu includes "Project Selector" and "Sign Out". The main content area is titled "CREDIT INTERPRETATIONS" and includes a "DESIGN APPLICATION" button. Below this, there is a section for "FIND OR REQUEST A CREDIT INTERPRETATION" with a "SUBMIT A NEW CIR" link. The text explains that as of November 15, 2005, projects no longer receive free CIRs. It provides contact information for LEED Customer Service and links to "CIR Guidelines" and "Innovation Credit proposals". A "CIR Schedule" section states that CIR batches are collected every other week. At the bottom, there is a "SEARCH CREDIT INTERPRETATIONS" form with fields for "Rulings From" (Oct 15 2008 to Nov 15 2008), "Credit Name Contains:", "Question Contains:", and "Answer Contains:", along with a "Search" button. The USGBC logo is visible in the bottom right corner of the page.



Managing LEED Online

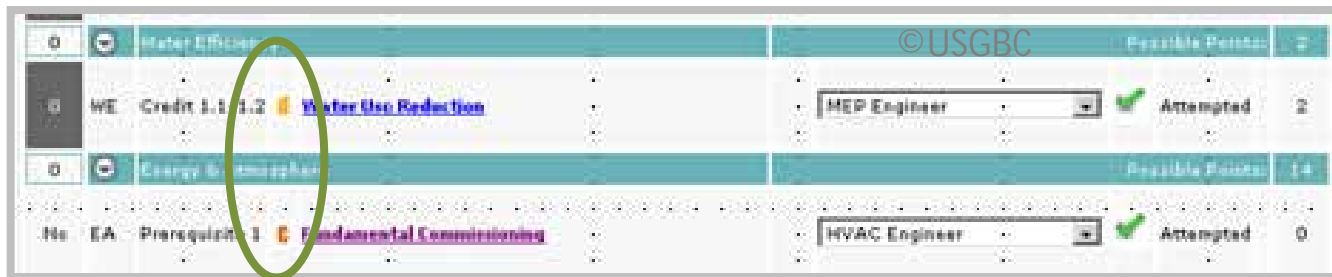
Design Review vs Construction Review

Project team has the option of submitting all credits at end of construction (Construction Phase Review) or splitting into Design Phase Review and Construction Phase Review.

Design Review comments will be one of the following:

- Anticipated
- Denied
- Clarify

Cost is split in two for Design Phase & Construction Phase reviews



Water Efficiency		©USGBC		Possible Points: 2	
WE	Credit 1.1.1.2	Water Use Reduction	MEP Engineer	Attempted	2
Energy Efficiency		©USGBC		Possible Points: 14	
EA	Prerequisite 1	Fundamental Commissioning	HVAC Engineer	Attempted	0

Review and Certification

- Documentation is submitted (*LEED®-Online*)
- *Administrative review* confirms all documents are in order
- Certification fees must be paid *prior* to award
- *25 business days* after administrative acceptance, GBCI provides *preliminary comments*
- Project team has *25 business days* to respond, provide additional documents, etc.
- Final LEED review – *15 business days*
- Applicants can *appeal* decisions - \$500/credit and 25 business days
- *Expedited reviews* (12 days) are available for \$10,000



Living Building Challenge



Living Building Challenge

7 “Petals” with 20 Total “Imperatives”

Site

- Limits to Growth
- Urban Agriculture
- Habitat Exchange
- Car Free Living

Water

- Net Zero Water
- Ecological Water Flow

Energy

- Net Zero Energy

Health

- Civilized Environment
- Healthy Air
- Biophilia



Living Building Challenge

Materials

Red List

Embodied Carbon Footprint

Responsible Industry

Appropriate Sourcing

Conservation + Reuse

Equity

Human Scale + Humane Places

Democracy + Social Justice

Rights to Nature

Beauty

Beauty + Spirit

Inspiration + Education



Architects

Building Owners

Federal, Local, and State Governments

Product Manufacturers

Planners

Contractors

USGBC

Engineers

Financial Reps

Utility Managers

Interior Designers

Building Tenants

Landscape Architects

©USGBC

Property Managers

Code Officials





Sustainable Sites

LEED 2009 for New Construction and Major Renovations Project Checklist

0 0 0

Sustainable Sites

Possible Points: 26

Y ? N d/
C

Y	?	N	d/ C		
			C	Prereq 1	Construction Activity Pollution Prevention
			d	Credit 1	Site Selection
			d	Credit 2	Development Density and Community Connectivity
			d	Credit 3	Brownfield Redevelopment
			d	Credit 4.1	Alternative Transportation—Public Transportation Access
			d	Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms
			d	Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles
			d	Credit 4.4	Alternative Transportation—Parking Capacity
			C	Credit 5.1	Site Development—Protect or Restore Habitat
			d	Credit 5.2	Site Development—Maximize Open Space
			d	Credit 6.1	Stormwater Design—Quantity Control
			d	Credit 6.2	Stormwater Design—Quality Control ©USGBC
			C	Credit 7.1	Heat Island Effect—Non-roof
			d	Credit 7.2	Heat Island Effect—Roof
			d	Credit 8	Light Pollution Reduction

1
5
1
6
1
3
2
1
1
1
1
1
1
1





Water Efficiency

LEED 2009 for New Construction and Major Renovations Project Checklist

0 0 0

Water Efficiency

Possible Points: 10

Y ? N

Y		

c Prereq 1

Water Use Reduction—20% Reduction

d Credit 1

Water Efficient Landscaping

2 to 4

- Reduce by 50%

2

d

- No Potable Water Use or Irrigation

4

d Credit 2

Innovative Wastewater Technologies

2

d Credit 3

Water Use Reduction

1

- Reduce by 30%

2

- Reduce by 35%

3

- Reduce by 40%

4



Calculations are based on occupant use and the number of FTE occupants, NOT the number of water fixtures.



Water Fixture Combos

Your baseline for determining percent reduction is based on the Energy Policy Act of 1992 fixture requirements.

ASSUMPTIONS:

- FTE is 50
- Men use the water closet 1 time
- Women use the water closet 3 times
- The men use the urinal 2 times and the women 0

High Eff. Toilet	Urinal	Faucet	Kitchen Sink	Total % water savings
1.6	0.25	0.5	1.5	19%
1.6	0.125	0.5	1.5	22%
1.28	0.5	0.25	1.5	30%
1.35	0.125	0.25	1.5	35%
1.28	0	0.25	1.5	40%
* Gallons per flush	*	** Gallons per minute	**	



WE Prerequisite 1: Indoor Water Use Reduction

WEp1 Credit Calculation – Practice Problem #1

Project Information:

Full-Time Equivalent (FTE) Information:

- 80 Full-Time employees
- 20 Part-time employees that work an average 4 hrs / day

Design Fixtures

- All restrooms have dual flush toilets (1.6 Full flush, 1.1 Half Flush)
- All male restrooms have low-flow (0.5 GPF) urinals
- Low flow lavatories are 1.0 GPM, low-flow showers are 1.8 GPM and low flow kitchen sinks are 1.8 GPM

Other Assumptions / Information

- The building is operated 250 days/year
- Assume the default male to female ratio
- Assume all restrooms are public restrooms.



WE Prerequisite 1: Indoor Water Use Reduction

WEp1 Credit Calculation: Practice #1 Problem Continued

Your Assignment:

1. Using the project information given, calculate the percentage water reduction from flush fixtures.

2. Calculate the additional water savings from the design upgrades listed below (independently of each other) to determine which upgrade would yield the most savings?
 - a. Upgrading urinals to 1/8 gallon flush
 - b. Upgrading water closets in men's restrooms to 1.28 GPF





Does LEED EBOM Guarantee LEED CI?

Green strategies implemented by the base building do help in some cases BUT not always since the rating systems are structured quite differently.



©USGBC



Material & Resources - MR



Green buildings
can contribute to
70% reduction in
solid waste





Materials and Resources

LEED 2009 for New Construction and Major Renovations Project Checklist

0 0 0

Materials and Resources

Possible Points: 14

Y ? N d/C

Y	?	N	d/C		
			d	Prereq 1	Storage and Collection of Recyclables
			c	Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof
					- Reuse 55%
					- Reuse 75%
					- Reuse 95%
			c	Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements
			c	Credit 2	Construction Waste Management
					- 50% Recycled or Salvaged
					- 75% Recycled or Salvaged
			c	Credit 3	Materials Reuse - 5- 10%
			c	Credit 4	Recycled Content
					- 10% of Content
					- 20% of Content
			c	Credit 5	Regional Materials - 10-20%
			c	Credit 6	Rapidly Renewable Materials
			c	Credit 7	Certified Wood

©USGBC



MRC3: Materials Reuse

Use salvaged, refurbished or reused materials as a percentage (based on cost) of total materials on project.



MRC3: Materials Reuse



1. VIEW TO THE LEVEL TWO BOARD ROOM CLAD IN RECLAIMED WINE FLAVOR STICKS.



2. VIEW ACROSS LEVEL TWO OPEN OFFICE AREA TO ONE OF THE MEETING ROOM PODS.



2. VIEW TO THE INSIDE OF A CONFERENCE ROOM INSIDE ONE OF THE MEETING ROOM PODS.



2. VIEW TO ONE OF THE SKYPE-IT COLLABORATION SPACES ON THE BACKSIDE OF A MEETING ROOM POD.



1. ONE OF THE CASUAL SEATING AREAS: THE LEVEL ONE 'CABIN'.



2. VIEW TO THE LEVEL ONE CORRIDOR TO THE CHILLOUT AND CAFE.



2. THE CHILLOUT ROOM.



2. THE CAFE / KITCHEN.

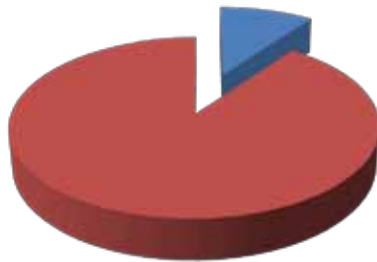
Materials and Resources



MRC4 – Materials and Resources - Recycled Content

Pre Consumer – Preconsumer material is defined as material diverted from the waste stream during the manufacturing process. Reutilization of materials (i.e., rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it) is excluded.

Post Consumer – Postconsumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose



■ Steel and Concrete

RECYCLED CONTENT VALUE =

(% Post consumer Recycled Content x Materials Cost) + .5 x (% Preconsumer x Materials Cost)

MRC4 – Materials and Resources - Recycled Content

Quiz: What's wrong with this documentation?

Green Building Products

At-A-Glance

buildingresponsibly™

CertainTeed respects the environment through the responsible development of sustainable products.

	Percent Recycled Content	Does Not Emit Harmful Chemicals	Third-party Certifications	Material Plan Certification (MPS)
Form-A-Drain®	92%	✓		
ThermaEZE™		✓		
Platon®	95%	✓		
FiberCement	>30%	✓	SFI®	
Polymer Siding Vinyl Siding and Trim	80%	✓		
Restoration Millwork™		✓		
* Insulation - Batts	20-25%	✓	GREENGUARD	
Insulation -	20-25%	✓	GREENGUARD	

3 Acceptable Forms of Back-up Documentation for Materials Credits:

1. Spec Sheets, Cut Sheets or Material Safety & Data Sheets (MSDS)
2. Letters from Manufacturer
3. Product Literature



MRC4 – Recycled Content – Concrete Mix Design

Activity: Using the Sample Concrete Mix Design given below, determine the \$ amount of recycled content that may be applied to this credit.

Material	Weight (lbs)
Cement	2,000
Sand	3,500
Crushed Stone	3,700
<u>Water</u>	<u>800</u>
TOTAL	10,000

The cement contains 35% Fly ash and 15% slag by weight. Assume these are the only recycled materials in the entire concrete mix.

Note: Fly ash and slag are industrial by-products that are often used in Portland cement. Fly ash is a by-product of the combustion of pulverized coal in electric power generating plants. Slag cement also called ground granulated blast furnace slag, is made from iron blast furnace slag. These types of industrial by-products are considered post-industrial (or pre-consumer) recycled materials.

Part A: Assume the cost of the concrete is \$100,000. What is the dollar value of the recycled content materials that may be applied to this credit.

Recycled Content Value (\$) = (% Post Consumer x Materials Cost) x .5 (% Preconsumer x Materials Cost)

Part B: Assume we were able to determine that the cost of the cement constituted 60% of the total cost of the concrete. What would the dollar value of recycled content materials that may be applied to this credit using this new information.



MR Credit 7: Certified Wood

This credit awards points for dedicating 50% or more of your total new wood budget to wood-based products or materials that are FSC certified.



- Consider specifying 100% Forest Stewardship Council certified wood
- Focus on big-ticket items (wood blocking, framing, doors, millwork, and wood finishes)
- Find a source and price regionally before deciding to pursue this credit

COC (Chain of Custody Certificate) and Invoices

Quiz: Is this FSC Certified flooring?



- **Product Description:** TerraMai's Fishtail Oak originates in the tropics of Asia and is reclaimed as shipping dunnage from U.S. ports. The name "Fishtail Oak" comes from the wood's mottled, almost iridescent figuring.
- **Source:** Tropical oak hardwood used in global industrial shipping.
- **Species:** *Quercus gemelliflora mempening*.
- **Colors:** Golds, tans and coppers, with silver, rose and burgundy highlights, along with occasional distinctive black marbling.
- **Millwork:** Tongue & groove, back-relieved and end-matched.
- **Net Dimensions:** 5/8" thick X 2-1/8" face width X solid random lengths of 2' to 6' long.
- **Character:** Very occasional nail holes, oxide stains, surface seasoning checks and occasional sound tight knots.
- **Finish:** Comes unfinished, unless otherwise specified.
- **Installation:** Install per National Wood Flooring Association (NWFA) guidelines.
- **Certification:** Certified recycled by the Forest Stewardship Council (FSC).

MR Credit 7: Certified Wood

bcci
builders

Assembly Calculator for Certified Wood

Product:

Cost of Product: **\$0**

Components	Percent of assembly by weight, volume, or cost (choose one and stay consistent)	New wood? (not salvaged, no recycled content)	Cost contributing to total wood budget	FSC-certified?	Cost contributing to MRc7
			\$0		\$0
			\$0		\$0
			\$0		\$0
			\$0		\$0
Total >>>			\$0		\$0



MR Credit 7: Certified Wood



LEED 2009 for Commercial Interiors MR CREDIT 7: CERTIFIED WOOD

All fields and uploads are required unless otherwise noted.

ACTUAL MATERIALS COST

Actual materials cost, excluding labor and equipment:

Note: Includes hard costs for CSI MasterFormat 2004 Divisions 03-10, 31 (section 31.60.00 Foundations) and 32 (sections 32.10.00 Paving, 32.30.00 Site Improvements, and 32.90.00 Planting) only.

\$ 868,137

Actual materials cost for furniture, excluding labor and equipment

Note: Includes hard costs for CSI MasterFormat 2004 Division 12 only.

\$ 0

Indicate the credits you wish to attempt:

- MR Credit 3.1: Materials Reuse
- MR Credit 3.2: Materials Reuse - Furniture & Furnishings
- MR Credit 4: Recycled Content
- MR Credit 5: Regional Materials
- MR Credit 6: Rapidly Renewable Materials
- MR Credit 7: Certified Wood

Table L-3. CSI Divisions 03-10, 31.60.00, 32.10.00, 32.30.00, and 32.90.00 materials

Fill in all columns with applicable material data for all attempted credits among MR Credits 3.1 and 4-7. Exclude materials included in MR Credit 1.2 Building Reuse - Maintain Interior Nonstructural Components and all mechanical, electrical and plumbing (MEP) components and equipment.

Note: This table will carry materials data across MR credits 3.1 and 4-7 to ensure consistent documentation; however, the summary table in this form only pertains to this credit. For more column information, hover cursor over column heading.

Total CSI Divisions 03-10, 31.60.00, 32.10.00, 32.30.00, and 32.90.00 Materials Cost 868,137



MR Credit 7: Certified Wood cont.

Add Row Delete Row

Table Indicator: Complete

- * Cost, in the case of a salvaged item, can be the actual or replacement value, but must be consistent with the cost used to calculate the total materials cost for the project.
- ** In lieu of exact distances, estimated distances may be used. If estimated distances are used, upload the manufacturer's letter stating that the material/product was manufactured and/or extracted/recovered/harvested within 500 miles of the project site. For items that are regionally manufactured but only partially regionally extracted, split the material/product into two rows. Determine the cost for each row using the percentage by weight of each regional criterion.
- *** % FSC* refers to the percentage of FSC wood as a portion of new wood. See Equation 1 in the LEED for Green Interior Design and Construction Reference Guide.
- **** Product cutsheets uploaded for documentation of credit compliance must include material data for all applicable credits.

Table L-4. CSI Division 12 Materials

Fill in all columns with applicable material data for all attempted credits among MR Credits 3.2 and 4-7. Exclude materials included in MR Credit 1.2 Building Reuse - Maintain Interior Nonstructural Components and all mechanical, electrical and plumbing (MEP) components and equipment.

Note: This table will carry materials data across MR credits 3.2 and 4-7 to ensure consistent documentation; however, the summary table in this form only pertains to this credit. For more column information, hover cursor over column heading.

General				MRc3.2	MRc4	MRc5			MRc6		MRc7	20%			
Name/ Description of Material / Item	Cost per Item (\$)	Number of Furniture Items Purchased	Manufacturer / Vendor Name	% Salvaged / Reused *	% Post	% Pre	% Reg	Exc Dist (miles) **	Mfc Dist (miles) **	Location Info Source (s)	% Ren	Ren Material Type	% New Wood	% FSC ***	Cut ****
Canvas Open We	309,863	1	Herman Miller		28	26				501			0	0	✗
TU Pedestals	60,564	1	Herman Miller		18	4				501			0	0	✗
Aaeron Chairs	635	324	Herman Miller		31	22				501			0	0	✗
Setu Chairs	371	185	Herman Miller		23	22				501			0	0	✗
Total (\$)	644,802	Sustainable criteria value (\$)			0	248,903	33	0	0	0	0	0	0	0	
Sustainable criteria percentage (%)				0	0	0	0	0	0	0	0	0	0	0	

Add Row Delete Row

Table Indicator: Incomplete

Save Form



MR Credit 7: Certified Wood cont.

General				MRc3.1	MRc4			MRc5		MRc6		MRc7		20%	
Name/ Description of Material / Item	Cost per Item (\$)	Number of Items Purchased	Manufacturer / Vendor Name	% Salvaged / Reused *	% Post	% Pre	% Reg	Exc Dist (miles **	Mic Dist (miles **	Location Info Source (s)	% Ren	Ren Material Type	% New Wood	% FSC ***	Cut ****
B-6806-48	180	1	Bobrick		0	65		501	501				0	0	■
Mechoshade	2,497	1	Mechoshade Sys		5	22		501	501				0	0	■
Refrigerator ZIC	7,302	1	G.E.		0	0		501	487				0	0	■
Microwave PEB2	338	1	G.E.		0	0		501	487				0	0	■
Refrigerator T-4	3,600	5	True		0	0		501	28				0	0	■
Spray Contact Ad	118	1	PB VOC		0	0		501	501				0	0	■
WithStand Floor	19,000	1	Pratt & Lambert		0	0		501	501				0	0	■
Pro-Hide Flat Win	24,225	1	Pratt & Lambert		0	0		501	501				0	0	■
Univeral Primer	32,775	1	California Produ		0	0		501	5,010				0	0	■
Wall Paint	2,850	1	Pratt & Lambert		0	0		501	501				0	0	■
Suprime Multi-Pu	1,900	1	Pratt & Lambert		0	0		501	501				0	0	■
14" Cork Bulletin	2,850	1	Wolf Gordon		0	0		501	501				0	0	■
Just-Rite 48" D	1,273	1	Waltaker		0	0		501	501				0	0	■
Dynamite Paste	90	1	Gardner Gibson		0	0		501	501				0	0	■
Arrels	5,725	1	Sierra Pine		0	0		501	500				96	100	⊗
Solid Surface Ad	228	1	Avonite		0	0		501	501				0	0	■
3/8" Clear Tempe	10,218	1	Glassfab		0	0		501	65				0	0	■
Aluminum Glazie	546	1	Morse Industries		0	0		501	501				0	0	■
Laminated Glass	30,775	1	Pulp Studio		0	0		501	381				0	0	■
3M Film	12,000	1	Bay Area Solar		0	0		501	501				0	0	■
Dow Corning 795	4,995	1	Dow Corning		0	0		501	501				0	0	■
Total (\$)	868,137	Sustainable criteria value (\$)		0	149,013			0	0	0	0	0	93,675.57		
Sustainable criteria percentage (%)				0	17.16			0	0	0	0	0	78.31		



MR Credit 7: Certified Wood cont.

Add Row

Delete Row

Table Indicator: Complete

- * Cost, in the case of a salvaged item, can be the actual or replacement value, but must be consistent with the cost used to calculate the total materials cost for the project.
- ** In lieu of exact distances, estimated distances may be used. If estimated distances are used, upload the manufacturer's letter stating that the material/product was manufactured and/or extracted/recovered/harvested within 500 miles of the project site. For items that are regionally manufactured but only partially regionally extracted, split the material/product into two rows. Determine the cost for each row using the percentage by weight of each regional criterion.
- *** "% FSC" refers to the percentage of FSC wood as a portion of new wood. See Equation 1 in the LEED for Green Interior Design and Construction Reference Guide.
- **** Product cutsheets uploaded for documentation of credit compliance must include material data for all applicable credits.

Table L-4. CSI Division 12 Materials

Fill in all columns with applicable material data for all attempted credits among MR Credits 3.2 and 4-7. Exclude materials included in MR Credit 1.2 Building Reuse - Maintain Interior Nonstructural Components and all mechanical, electrical and plumbing (MEP) components and equipment.

Note: This table will carry materials data across MR credits 3.2 and 4-7 to ensure consistent documentation; however, the summary table in this form only pertains to this credit. For more column information, hover cursor over column heading.

General				MRc3.2	MRc4	MRc5			MRc6	MRc7	20%				
Name/ Description of Material / Item	Cost per Item (\$)	Number of Furniture Items Purchased	Manufacturer / Vendor Name	% Salvaged / Reused *	% Post	% Pre	% Reg	Exc Dist (miles) **	Mfc Dist (miles) **	Location Info Source (s)	% Ren	Ren Material Type	% New Wood	% FSC ***	Cut ****
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Aeron Chairs	635	324	Herman Miller		31	22				501			0	0	✗
Setu Chairs	371	185	Herman Miller		23	22				501			0	0	✗
Total (\$)	644,802	Sustainable criteria value (\$)		0	248,903.33			0		0		0		0	
Sustainable criteria percentage (%)				0	0			0		0		0		0	

Add Row

Delete Row

Table Indicator: Incomplete

Save Form



MR Credit 7: Certified Wood

* Cost, in the case of a salvaged item, can be the actual or replacement value, but must be consistent with the cost used to calculate the total materials cost for the project.

** In lieu of exact distances, estimated distances may be used. If estimated distances are used, upload the manufacturer's letter stating that the material/product was manufactured and/or extracted/recovered/harvested within 500 miles of the project site. For items that are regionally manufactured but only partially regionally extracted, split the material/product into two rows. Determine the cost for each row using the percentage by weight of each regional criterion.

*** "% FSC" refers to the percentage of FSC wood as a portion of new wood. See Equation 1 in the LEED for Green Interior Design and Construction Reference Guide.

**** Product cutsheets uploaded for documentation of credit compliance should include material data for all applicable credits.

The sum of total costs per item may not exceed the total materials cost for the project. Please revise the values entered.

Table MRc7-1. Credit Summary for MR Credit 7

Total sustainable criteria value (\$)	93,675.57
Total new wood materials cost (\$)	119,626
New wood products that are FSC certified (%)	78.31

NOTE: Must be at least 50% to document 1 point, and 95% to document exemplary performance.

Wood-based products that are included in MR Credit 7 are not considered salvaged, reused, or recycled

Upload MRc7-1. Provide vendor invoices for all new wood products on a line item basis. Include the value (\$) of each product as well as vendor's COC certificate numbers for all FSC certified wood.

Upload Files: 2

Percent cutsheets provided for MR Credit 7:

Note: Must be 100% to document credit compliance.

100 %

SUMMARY

MR Credit 7, Certified Wood Points Documented: 0

MR Credit 7, Certified Wood Exemplary Performance Documented: N

The project team reserves one point in the Innovation in Design credit category for exemplary performance in MR Credit 7.

ADDITIONAL DETAILS

Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.

The project team is using an alternative compliance approach in lieu of standard submittal paths and/or documentation.

DID WE GET THE CREDIT?



Innovation & Design - ID



Innovation & Design Process - ID

Innovation & Design Process Credits	Possible Points
Innovation in Design Credit 1	1-5
Innovation in Design Credit 2, LEED AP	1
Total ID Points	6

3 General Paths for achieving ID points

1.

2.

3. (ID Credit 2):



QUESTIONS?



Aly Ebzery

aebzery@bcciconst.com

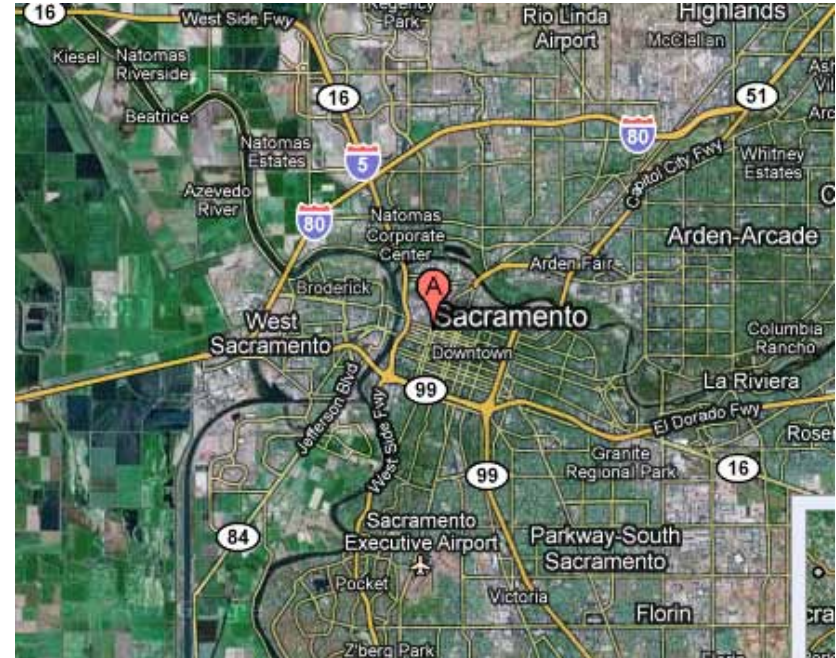


Regional Priority

Up to 4 additional points are available for achieving thresholds of certain credits that have been determined to be particularly important to that region. Each zip code has 6 different regional priority credits to choose from for each Rating System.



Regional Priorities for 95829



What is the zip code of the project:

95829

	<u>Name</u>	<u>Passed?</u>
Regional Priority Credit 1	SSc4 (50%)	No
Regional Priority Credit 2	WEc2 (30%)	No
Regional Priority Credit 3	IEQc2.4	No
Regional Priority Credit 4	EAc1 (85 rating/35 percentile)	No
Regional Priority Credit 5	EAc4 (7.5%/62.5%)	No
Regional Priority Credit 6	MRC7	No

