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LEED (Leadership in Energy and Environmental Design) is a rating system developed by the U.S. Green Building Council (USGBC) to evaluate the environmental performance of buildings and encourage sustainable building practices.

Buildings earn points for meeting various criteria in categories such as energy efficiency, water conservation, materials and resources, indoor environmental quality, and innovation in design



# Promoting sustainable building practices Improving building performance Providing a recognized standard Increasing property value and marketability Supporting government regulations and Incentives



LEED certification provides a framework for healthy, highly efficient, and cost-saving green buildings, which offer environmental, social and governance benefits. LEED certification is a globally recognized symbol of sustainability achievement and leadership.



# USGBC

USGBC stands for the U.S. Green Building Council. It is a non-profit organization that promotes sustainability in the building and construction industry. The USGBC is best known for developing and administering the Leadership in Energy and Environmental Design (LEED) certification program, which provides a rating system for green buildings and building practices.



1993	•LEED's development grew from the formation of USGBC in 1993 by three individuals: David Gottfried, Mike Italiano and Rick Fedrizzi, who served as president, CEO and founding chair of the organization.	
1998	<ul> <li>By 1998, USGBC had successfully developed LEED 1.0 and began pilot testing 19 projects.</li> </ul>	<b>-</b>
2001	<ul> <li>In March 2001, drawing on lessons learned from the pilot program, USGBC launched LEED 2.0.</li> </ul>	п
2003	<ul> <li>In April, LEED for Existing Buildings and LEED for Commercial Interiors began pilot testing, while LEED for Core and Shell launched in October. In November, the National Geographic Society building in Washington, D.C, became the first LEED-certified existing building.</li> </ul>	

•USGBC launched LEED v2009 in April 2009. Among the many improvements over its predecessor, LEED v2.2, LEED v2009 introduced weightings for credits based on the Environmental Protection Agency's TRACI and weightings developed by the National Institute of Standards.

 LEED v4 came in 2015 with many new improvements over the previous systems, including increased flexibility, a performance-based, smart grid approach, an emphasis on materials and resources, a comprehensive approach to water, and streamlined documentation.
 LEED v4 continued to raise the bar for green buildings.

2019

2009

2015

 LEED v4.1 is more inclusive with updated referenced standards and allows projects to earn LEED points through building performance monitoring.

# **Better for business**

LEED buildings have a higher resale value and lower operational costs than non-LEED buildings. LEED is an essential strategy for achieving ESG, decarbonization and equity goals.

## **Better for people**

LEED-certified buildings focus on occupant wellbeing, offering a healthier and more satisfying indoor space while addressing community and public health.



# **Better for the environment**

LEED buildings use less energy and water, utilize renewable energy and fewer resources, create less waste, and preserve land and habitat.



# **Types of LEED Certification**

• 40-49 points earns basic LEED certification, 50-59 points earns a silver-level certification, 60-79 points earns gold-level certification and 80 points or higher earns platinum certification.





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# Guidelines to achieve a LEED certification for your building

- Build your design perspective as per the development category
- Ensure your checklist at every step of your project
- Estimate the budget of your certification
- Register your project
- Apply the documents of your certification
- Submit and wait for the review
- Accept your certification

# **LEED green associates**

The LEED Green Associate credential is for people who have a documented, up-to-date understanding of the most current green building principles and practices. This is basically a foundational credential, and for many it is the first step before earning advanced credentials such as the LEED AP with specialty.

# **LEED accredited Professional**

A LEED Accredited Professional (AP) credential signifies an advanced depth of knowledge of green building practices and by extension, an even greater commitment towards sustainable building. Earning a LEED AP credential requires specializing in a specific field. The specialization of LEED designation resembles the specialization of graduate school. To gain higher levels of mastery in a subject, one must specialize.



LEED

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## **LEED Fellow**

• LEED Fellows are a highly distinguished class of individuals who are nominated by their peers and have a minimum of 10 or more years of professional green building experience. LEED Fellows must also have achieved a LEED AP with specialty credential.

LEED



# CASE STUDIES

# **THE BUND FINANCE CENTER S1&S2 TOWER**

### 1000150557, Shanghai

### THE BUND FINANCE CENTER S1&S2 TOWER

### LEED O+M: Existing Buildings (v4.1)

### PLATINUM, AWARDED FEB 2022

SUSTA	INABLE SITES	AWARDED: 4 / 4
Credit	Rainwater Mgmt	1/1
Credit	Heat Island Reduction	1/1
Credit	Light Pollution Reduction	1/1
Credit	Site Mgmt	1/1



WATER EFFICIENCY		AWARDED: 15 / 1	
Credit	Water Performance	15/15	

ENERG	Y & ATMOSPHERE	AWARDED: 32 / 35
Prereq	Energy Efficiency Best Mgmt Practices	0/0
Prereq	Fundamental Refrigerant Mgmt	0/0
Credit	Energy Performance	30/33
Credit	Enhanced Refrigerant Mgmt	1/1
Credit	GridHarmonization	1/1



MATERIAL & RESOURCES		AWARDED: 9 / 9
Prereq	Purchasing Policy	0/0
Prereq	Facility Maintenance and Renovations Policy	0/0
Credit	Waste Performance	8/8
Credit	Purchasing	1/1

INDOO	R ENVIRONMENTAL QUALITY	AWARDED: 22 / 22
Prereq	Minimum IAQ	0/0
Prereq	Environmental Tobacco Smoke Control	0/0
Prereq	Green Cleaning Policy	0/0
Credit	Indoor Environmental Quality Performance	20/20
Credit	Integrated Pest Mgmt	1/1
Credit	Green Cleaning	1/1

INNOV	ATION	AWARDED: 1 / 1
Credit	Innovation	1/1

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Credit Trans	portation Performance			14/14
TOTAL				97 / 100
40-49 Points CERTIFIED	50-59 Points SILVER	60-79 Points GOLD	80+ Points PLATI NUM	

# Oficina ABANCA Serrano 45 LEED v4 ID+C: Commercial Interiors



1000148415, Madrid, Madrid

### Oficina ABANCA Serrano 45

LEED ID+C: Commercial Interiors (v4)

NATER	EFFICIENCY	AWARDED: 12 / 12
perere	Indoor water use reduction	0/0
iredit	Indoor water use reduction	12/12

ENERG	Y & ATMOSPHERE	AWARDED: 19 / 38
Prereq	Fundamental commissioning and verification	0/0
Prereq	Minimum energy performance	0/0
Prereq	Fundamental refrigerant Mgmit	0/0
Credit	Enhanced commissioning	4/5
Credit	Advanced energy metering	2/2
Credit	Renewable energy production	0/3
Credit	Enhanced refrigerant Mgmt	0/1
Credit	Green power and carbon offsets	0/2
Credit	Optimize energy performance	13/25

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MATER	IAL & RESOURCES AWARDED:	3/13
Prereq	Storage and collection of recyclables	0/0
Prereq	Construction and demolition was te Mgmt planning	0/0
Credit	Long-term commitment	1/1
Credit	Interiors life-cycle impact reduction	0/4
Credit	Building product disclosure and optimization - environmental product d	1/2
Credit	Building product disclosure and optimization - sourcing of raw materia	0/2
Credit	Building product disclosure and optimization - material ingredients	0/2
Credit	Construction and demolition was te Mgmt	1/2

INDOOR ENVIRONMENTAL QUALITY		AWARDED: 2 / 17	
Prereq	Minimum IAQ performance	0/0	
Prereq	Environmental tobaccosmoke control	0/0	
Credit	Enhanced IAQ strategies	1/2	
Credit	Low-emitting materials	0/3	
Credit	Construction IAQ Mgmt plan	1/1	
Credit	IAQ assessment	0/2	
Credit	Thermal comfort	0/1	
Credit	Interior lighting	0/2	
Credit	Daylight	0/3	
Credit	Quality views	0/1	
Credit.	Acoustic performance	0/2	

INNOVATION		AWARDED: 5 / 6
Credit	Innovation	4/5
Credit	LEED Accredited Professional	1/1

NAL PRIORITY CREDITS	AWARDED: 3 / 4	
Thermal comfort	0/1	
Surrounding density and diverse uses	1/1	
Access to quality transit	1/1	
Indoor water use reduction	1/1	
	Thermal comfort Surrounding density and diverse uses Access to quality transit	

LOCAT	ION & TRANSPORTATION	AWARDED: 18 / 20	
Credit	LEED for neighborhood development location		
Credit	Surrounding density and diverse uses	B/8	
Credit	Access to quality transit	7/7	
Credit	Bicycle facilities	1/1	
Credit	Reduced parking Footprint	2/2	

#### INTEGRA $\cap$ Credit

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ATIVE PROCESS CREDITS	AWARDED: 2 / 2
Integrative process	2/2

64/110

GOLD, AWARDED MAY 2022

# PROXIMITYPARKS MONTERREY CENTRO LEED BD+C: Core and Shell





1000137201, Monterrey

### PROXIMITYPARKS MONTERREY CENTRO

LEED BD+C: Core and Shell (v4)

SUSTA	NABLE SITES	AWARDED: 2 / 11
Prerieq	Construction activity pollution prevention	0/0
Credit	Site assessment	1/1
Credit	Site development - protect or restore habitat	0/1
<b>Crude</b>	Openspace	0/1
Credit	Stamuator Mgmt	0/3
Gridit	Heat islandreduction	0/3
Credit	Light pollution reduction	0/1
Credit	Tenant design and construction guidelines-	1/1

Prereq Prereq	R ENVIRONMENTAL QUALITY	AWARDED: 1 / 10
	Minimum IAQ performance	0/0
	Environmental tobaccosmoke control	0/1
	Enhanced IAQ strategies	0/3
	Low-emitting materials	0/2
	Construction IAQ Mgmt plan	)(1/)
	Daylight	10/3
Gredit	Quality views	0/1

INNOVATION

Innovation

LEED Accredited Professional

Oredit

Gredit

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WATER	EFFICIENCY	AWARDED: 7 / 11	
Preraid	Outdoor water use reduction	0/0	
Prereq	Indoor water us a reduction	.0/0	
Prereid	Suilding-level water metering	0/0	
Credit	Cooling tower water use	0/2	
Gredit	Watermetering	1/1	
Gredit	Outdoor water use reduction	2/2	
Civide	Indoor water us a reduction	4/6	

ENERG	Y & ATMOSPHERE	AWARDED: 23 / 33	
Prereq	Fundamental commissioning and vertication	0/0	
Preveq	Minimum energy performance	a/a	
Preniq	Building-level energy metering	0/0	
Prereq	Fundamental refrigerant Ngmt	.0/0	
Gredit	Enhanced commissioning	0/6	
Credit	Advanced energy metering	1/1	
Crieda	Demandresponse	0/2	
Credit	Renewable energy production	3/3	
CividR	Enhanced refrigerant Mgmt	1/1	
Credit	Green power and carbon offsets	0/2	
Gidt	Optimize energy performance	_ 1H/18	

MATER	IAL & RESOURCES AWARDED:	ARDED: 7 / 14	
Prerieg	Storage and collection of recyclables	0/0	
Preveq	Construction and demolition was to Mgmt planning	0/0	
Gredit	Building life-cycle impact reduction	6/6	
Credit	Building product disclosury and optimization - environmental product d	.0/1	
Gredit	Building product disclosure and optimization - sourcing of raw materia	1/3	
Gredit	Building product disclosure and optimization - material ingredients	0/3	
Credit	Construction and demolition waste Mgmt	0/1	
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REGIO	NAL PRIORITY CREDITS	AWARDED: 4 / 4
Oredit	Renewable energy production	0/1
Credit	Optimize energy performance	1/1
Gredit	Access to quality transit	-1/1
Gredit	Outdoor water us a reduction	1/1
Oredit	Indoor water use reduction	1/1

8	LOCAT	TION & TRANSPORTATION	AWARDED: 14 / 20
	Credit	LEED for NeighborhoodDevelopment location	0/20
	Gredit	Sensitive Landprotection	2/2
	Gradit	High priority site	2/3
	Gredit	Surrounding does ity and diverse uses	4/6
	Gredit	Access to quality transit	6/6
	Gredit	Bicycle facilities	0/1
	Gredit	Reduced parking footprint	0/1
	Gredit	Greenvehicles	0/1

INTEGRATIVE PROCESS CREDITS		AWARDED: 1 /
Gredit	Integrative process	:- <b>1</b> /

TOTAL 65/110

#0-49 Points	507-fritt Points	60-75 Points	BD+ PDirits
CERTRIPIED	BIEVEN	606.0	PLATINUM

GOLD, AWARDED DEC 2021

AWARDED: 6 / 6

5/5

1/1

# REFERENCE

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- <u>https://www.gbrionline.org/what-is-leed-types-of-leed-credits-categories-a-complete-guide</u>
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