

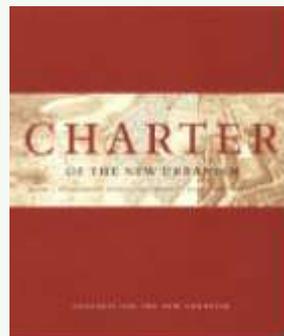
LEED FOR NEIGHBORHOOD DEVELOPMENT



What is LEED-ND?

- United States Green Building Council (USGBC)
- **LEED** = Leadership in Energy and Environmental Design
- **ND** = Neighborhood Development
- A rating system that combines elements of smart growth, urbanism, and green building that leads to improved quality of life.

Principles of
Smart
Growth



The Benefits: the triple bottom line

LEED-ND

**HEALTHIER
communities**

**CLEANER
environment**

**STRONGER
economy**



**The Benefits of
LEED-ND**

Evolution of LEED ND

LEED-ND

2004

**Begin development
of rating system**

2007

**Pilot Program
Launches**

2009

**Release of
2009 version**

2010

**Certification
Launch**

Credit Categories

LEED-ND

LEED[®] for Neighborhood Development

Total Possible Points 110***

 Smart Location & Linkage	27
 Neighborhood Pattern & Design	44
 Green Infrastructure & Buildings	29

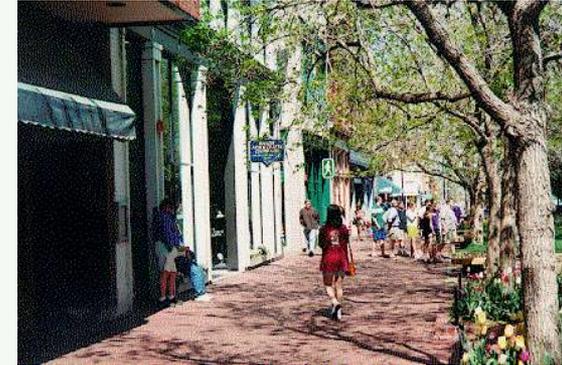
** Out of a possible 100 points + 10 bonus points*

*** Certified 40+ points, Silver 50+ points,
Gold 60+ points, Platinum 80+ points*

 Innovation & Design Process	6
 Regional Priority Credit	4

LEED-ND Credits

- 12 Mandatory Pre-Requisites
- 41 Credits worth 100 points
- 6 Innovation Credits
- 4 Regional Priority Credits
- Minimum of 40 to Certify, 50 Silver, 60 Gold, 80 Platinum



How is LEED-ND Organized?

Smart Location and Linkage = Where?

- 5 Prerequisites, 9 credits with 27 Points

Neighborhood Pattern and Design = What?

- 3 Prerequisites, 15 credits with 44 Points

Green Infrastructure and Building = How?

- 4 Prerequisites, 17 credits with 29 Points

Smart Location and Linkage

LEED-ND

Measure Location

- Proximity to existing development
- Proximity to goods and services
- Proximity to existing infrastructure

Enhance Location

- Preserve sensitive lands
- Locate jobs near housing
- Provide bicycle amenities

Neighborhood Pattern and Design

LEED-ND

Compact, Complete, Connected

- People connected to place and to each other
- Shared public spaces
- Nearby goods and services

TOWNHOME BOULEVARD FROM THE COMMUNITY PARK



Neighborhood Pattern and Design

- Prerequisite for building height to street width of 3:1
- Reduced street width to facilitate walkable streets
- Variety of housing types and prices



Neighborhood Pattern and Design

Walkability

- Pedestrian-oriented street design
- Narrow streets
- Building entries facing public spaces
- Transparent building facades
- Minimal building setbacks
- On-street parking
- Street trees



Green Infrastructure and Building

Use design techniques and systems to reduce environmental impacts based on:

- Site impacts
- Water
- Energy
- Materials
- Infrastructure





Yes ? No

17 3 7 Smart Location and Linkage 27 Points Possible

Y			Prereq 1 Smart Location	Required	1	4	
Y			Prereq 2 Imperiled Species and Ecological Communities	Required	1	2	
Y			Prereq 3 Wetland and Water Body Conservation	Required		1	
Y			Prereq 4 Agricultural Land Conservation	Required	1		
Y			Prereq 5 Floodplain Avoidance	Required		1	
5	1	4	Credit 1 Preferred Locations	10			1
1	0	1	Credit 2 Brownfield Redevelopment	2	1		
6	1	0	Credit 3 Locations with Reduced Automobile Dependence	7		3	1
	1		Credit 4 Bicycle Network and Storage	1		1	
3	0		Credit 5 Housing and Jobs Proximity	3		1	
1			Credit 6 Steep Slope Protection	1		3	
1			Credit 7 Site Design for Habitat or Wetland and Water Body Conservation	1		2	
		1	Credit 8 Restoration of Habitat or Wetlands and Water Bodies	1		1	
		1	Credit 9 Long-Term Conservation Management of Habitat or Wetlands and Water Bodies	1			2

Yes ? No

23 12 9 Neighborhood Pattern and Design 44 Points Possible

Y			Prereq 1 Walkable Streets	Required			
Y			Prereq 2 Compact Development	Required			
Y			Prereq 3 Connected and Open Community	Required			
11		1	Credit 1 Walkable Streets	12			
1	1	4	Credit 2 Compact Development	6			
	1	3	Credit 3 Mixed-Use Neighborhood Centers	4			
3	4	0	Credit 4 Mixed-income Diverse Communities	7			
	1		Credit 5 Reduced Parking Footprint	1			
1	0	1	Credit 6 Street Network	2	1		
1			Credit 7 Transit Facilities	1			
	3		Credit 8 Transportation Demand Management	2			
1			Credit 9 Access to Civic and Public Spaces	1			
1			Credit 10 Access to Recreation Facilities	1			
	1		Credit 11 Visitability and Universal Design	1			
1	1		Credit 12 Community Outreach and Involvement	2			
	1		Credit 13 Local Food Production	1			
2			Credit 14 Tree-Lined and Shaded Streets	2			
1	0		Credit 15 Neighborhood Schools	1			

Yes ? No

5 21 4 Green Infrastructure and Buildings 29 Points Possible

Y			Prereq 1 Certified Green Building	Required			
Y			Prereq 2 Minimum Building Energy Efficiency	Required			
Y			Prereq 3 Minimum Building Water Efficiency	Required			
Y			Prereq 4 Construction Activity Pollution Prevention	Required			

Yes ? No

1	4		Credit 1 Certified Green Buildings	5			
1	2		Credit 2 Building Energy Efficiency	2			
	1		Credit 3 Building Water Efficiency	1			
1			Credit 4 Water-Efficient Landscaping	1			
	1		Credit 5 Existing Building Use	1			
		1	Credit 6 Historic Resource Preservation and Adaptive Reuse	1			
1			Credit 7 Minimized Site Disturbance in Design and Construction	1			
	3	1	Credit 8 Stormwater Management	4			
	1		Credit 9 Heat Island Reduction	1			
	1		Credit 10 Solar Orientation	1			
	3		Credit 11 On-Site Renewable Energy Sources	3			
	2		Credit 12 District Heating and Cooling	2			
	1		Credit 13 Infrastructure Energy Efficiency	1			
		2	Credit 14 Wastewater Management	2			
	1		Credit 15 Recycled Content in Infrastructure	1			
1	0		Credit 16 Solid Waste Management Infrastructure	1			
1	1		Credit 17 Light Pollution Reduction	1			

Yes ? No

1 0 0 Innovation and Design Process 6 Points

			Credit 1.1 Innovation and Exemplary Performance: Provide Specific Title	1			
			Credit 1.2 Innovation and Exemplary Performance: Provide Specific Title	1			
			Credit 1.3 Innovation and Exemplary Performance: Provide Specific Title	1			
			Credit 1.4 Innovation and Exemplary Performance: Provide Specific Title	1			
			Credit 1.5 Innovation and Exemplary Performance: Provide Specific Title	1			
1			Credit 2 LEED [®] Accredited Professional	1			

Yes ? No

1 0 0 Regional Priority Credit 4 Points

1			Credit 1.1 Regional Priority Credit: Region Defined - GIB 4	1			
			Credit 1.2 Regional Priority Credit: Region Defined	1			
			Credit 1.3 Regional Priority Credit: Region Defined	1			
			Credit 1.4 Regional Priority Credit: Region Defined	1			

Yes ? No

47 36 20 Project Totals: (Certification estimates) 110 Points

Certified: 40-49 points, Silver: 50-59 points, Gold: 60-79 points, Platinum: 80+ points

LEED for Neighborhood Development

LEED-ND

• SMART LOCATION AND LINKAGE	17 points
• NEIGHBORHOOD PATTERN AND DESIGN	23 points
• GREEN CONSTRUCTION AND TECHNOLOGY	5 points
• REGIONAL PRIORITY CREDIT	1 point
• LEED ACREDITED PROFESSIONAL	1 point
TOTAL	47 points

Buckley Annex LEED ND Certification

LEED-ND

- 81 LEED ND Pilot projects in US with 5 Pilot projects in Colorado:
 1. Certified: Aspen Club Living – Aspen, CO
 2. Platinum: Ever Vail – Vail, CO
 3. Certified: Horizon Uptown – Aurora, CO
 4. Gold: Park Avenue Redevelopment-Block 3 – Denver, CO
 5. Silver: Washington Village (Cedar Commons) – Boulder, CO
- Only 3 certified LEED for Neighborhood Development (v2009) Projects in entire US to date.

