



LEED v4 for BD+C: New Construction and Major Renovation Project Checklist

Project Name: Wheeler Memorial Library, Orange, MA
Date: 16-Jan-17

Y	?	N	Credit	Integrative Process	1
5	0	11	16	Location and Transportation	16
				LEED for Neighborhood Development Location [Special program - NA]	1
				Sensitive Land Protection [Option 1-site on developed land]	2
				High Priority Site [Urban Enterprise Communities (EC), historic district, etc.]	5
				Surrounding Density and Diverse Uses [Opt 2-4.7 within 1/2mi, 8+ for 2 pt]	5
				Access to Quality Transit [2.5 mile to bus PVTA rt. 46 is .2m away, no wkend]	1
				Bicycle Facilities [need 25 mph roads or bike lanes + bike racks & showers]	1
				Reduced Parking Footprint [40% less than one space/3 seats]	1
				Green Vehicles [2 spc green cars + 1 spc for user paid elec. charging]	1

4	6	0	10	Sustainable Sites	10
				Construction Activity Pollution Prevention	Required
				Site Assessment [perform site assessment]	1
				Site Development - Protect or Restore Habitat [Rsrv 40% grn + restore nativ]	2
				Open Space [30% min. vegetated (NOT lawn) outdoor space on site]	1
				Rainwater Management [95th percentile on site (98th for 3 pts)]	3
				Heat Island Reduction [roof & non-roof high SRI]	2
				Light Pollution Reduction [limited (no) upward or trespass light pollution]	1

4	2	5	11	Water Efficiency	11
				Outdoor Water Use Reduction [Opt 1 - no irrigation]	Required
				Indoor Water Use Reduction [20% reduction below baseline]	Required
				Building-Level Water Metering [meter and share results with USGBC 5yrs]	Required
				Outdoor Water Use Reduction [No irrigation gives 2 pts]	2
				Indoor Water Use Reduction [25% reduction (30%=2, 35%=3, 40%=4 pts...)]	6
				Cooling Tower Water Use [reduce make-up water, limit microbe, scale, corro]	2
				Water Metering [track water consumption by use group]	1

15	12	6	33	Energy and Atmosphere	33
				Fundamental Commissioning and Verification	Required
				Minimum Energy Performance	Required
				Building-Level Energy Metering [meter and share results with USGBC 5yrs]	Required
				Fundamental Refrigerant Management [no CFCs]	Required
				Enhanced Commissioning [Comm, 3 pts + monitoring, 1 pt. Envelope, 2pts]	6
				Optimize Energy Performance [Opt 1 - 25% improve over base, incl. renewa	18
				Advanced Energy Metering [meter bldg & all sys, store hrv data, on-line]	1
				Demand Response [Opt 2, install infrastr for future utility DR program]	2
				Renewable Energy Production [PV system for 5% = 2pts, 10% = 3pts]	3
				Enhanced Refrigerant Management [Opt 1 Use low impact refrigerants]	1
				Green Power and Carbon Offsets [contract 50% from green, 100%=2pt]	2

L7 reduced parking
276 public seats
92 @ 1 per 3 seats (Other Public Assembly category)
24 spaces provided
73.91% reduction

3	3	7	13	Materials and Resources	13
				Storage and Collection of Recyclables	Required
				Construction and Demolition Waste Management Planning	Required
				Building Life-Cycle Impact Reduction [Opt 4 - bldg life-cycle asmt w/ 10% redn in 3 of 6 cat]	5
				Building Product Disclosure and Optimization - Environmental Product Declarations [Spec 50% products with life cycle green impact analysis into avail]	2
				Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
				Building Product Disclosure and Optimization - Material Ingredients	2
				Construction and Demolition Waste Management [50% of waste diverted, 75% = 2pts]	2

11	4	1	16	Indoor Environmental Quality	16
				Minimum Indoor Air Quality Performance [meet ASHRAE 62.1-2010]	Required
				Environmental Tobacco Smoke Control [no smoking inside or outside with 25/Add signage]	Required
				Enhanced Indoor Air Quality Strategies [entry mat, ventilation, filtration, elim cross contam]	2
				Low-Emitting Materials [meet VOC limits in 4/6 categories, 5/6 = 3 pts]	3
				Construction Indoor Air Quality Management Plan [meet SMACNA, cover systems, no temp	1
				Indoor Air Quality Assessment [Flush out = 1 pt, Air testing = 2 pts]	2
				Thermal Comfort [individual controls for occupants]	1
				Interior Lighting [lighting controls and light quality, 1 pt ea]	2
				Daylight [Simulate annual sun exposure autonomy 55% of occupied space, 75% for 3 pt]	3
				Quality Views [direct line of sight via windows for 75% of occupied spaces]	1
				Acoustic Performance [low HVAC noise and sound transmission]	1

1	1	4	6	Innovation	6
				Innovation	5
				LEED Accredited Professional	1

3	1	0	4	Regional Priority	4
				Regional Priority: Renewable Energy Production, 2 pt threshold	1
				Regional Priority: Optimize Energy Performance, 8 pt Threshold	1
				Regional Priority: Building life-cycle impact reduction, 2 pt threshold	1
				Regional Priority: Cooling tower water use, 2 pt threshold	1

46	29	35	TOTALS	Possible Points: 110
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Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110