

GBI Project Checklist for Green Globes for New Construction



Date: 18-Aug-17

Project Name: Milwaukie Mixed Use - PRELIMINARY

PROJECT MANAGEMENT		Maximum Points: 50	Y	N	?
1.1	Integrated Design Process (IDP)	7			
1.1.1	Pre-Design Meetings	3	Y		
1.1.2	IDP Performance Goals	1	Y		
1.1.3	IDP Progress Meeting for Design	3	Y		
1.1.4	Capital Asset Plan & Business Case Summary (Federal only)	0		N	
1.2	Environmental Management During Construction	5			
1.2.1	Environmental Management Systems (EMS)	3	Y		
1.2.2	Clean Diesel Practices	0		N	
1.2.3	Building Materials and Building Envelope	2	Y		
1.2.4	IAQ During Construction	0		N	
1.3	Commissioning	4			
1.3.1	Pre-Commissioning	0		N	
1.3.2	Whole Building Commissioning	0		N	
1.3.3	Training	1	Y		
1.3.4	Operations and Maintenance Manual	3	Y		
		16			

SITE		Maximum Points: 115	Y	N	?
2.1	Development Area	20			
2.1.1	Urban Infill and Urban Sprawl	10	Y		
2.1.2	Greenfields, Brownfields and Floodplains	10	Y		
2.2	Ecological Impacts	14			
2.2.1	Site Disturbance and Erosion	8	Y		
2.2.2	Tree Integration	0		N	
2.2.3	Tree Preservation	0		N	
2.2.4	Heat Island Effect	6	Y		
2.2.5	Bird Collisions	0		N	
2.3	Stormwater Management	13	Y		
2.4	Landscaping	21	Y		
2.5	Exterior Light Pollution	3	Y		
		71			

ENERGY		Maximum Points: 390	Y	N	?
3.1	Energy Performance	0		N	
3.2	Energy Demand	0			
3.2.1	Passive Demand Reduction	0		N	
3.2.2	Power Demand Reduction	0			NA

ENERGY (cont'd)		Maximum Points: 390	Y	N	?
3.3	Metering, Measurement, and Verification	2			
3.3.1	Metering	2	Y		
3.3.2	Measurement and Verification	0		N	
3.4	Building Opaque Envelope	26			
3.4.1	Thermal Resistance and Transmittance	10	Y		
3.4.2	Orientation	0		N	
3.4.3	Fenestration Systems	16	Y		
3.5	Lighting	33			
3.5.1	Lighting Power Density	10	Y		
3.5.2	Interior Automatic Light Shut-off Controls	2	Y		
3.5.3	Light Reduction Controls	4	Y		
3.5.4	Daylighting	6	Y		
3.5.5	Controls for Daylighted Zones	6	Y		
3.5.6	Exterior Luminaires and Controls	5	Y		
3.6	HVAC Systems and Controls	8			
3.6.1	Building Automation System	0		N	
3.6.2	Cooling Equipment	6	Y		
3.6.3	Cooling Towers	0			NA
3.6.4	Heat Pumps	0			?
3.6.5	Heating Equipment	0			?
3.6.6	Condensate Recovery	0			NA
3.6.7	Steam Traps	0			NA
3.6.8	Domestic Hot Water Heaters	2	Y		
3.6.9	Variable Speed Control of Pumps	0			NA
3.7	Other HVAC Systems and Controls	6			
3.7.1	Minimizing Re-heat and Re-cool	0			NA
3.7.2	Air Economizers	3	Y		
3.7.3	Fans and Ductwork	3	Y		
3.7.4	Demand Controlled Ventilation	0			NA
3.7.5	Variable Refrigerant Flow Systems	0			NA
3.8	Other Energy Efficient Equipment and Measures	6			
3.8.1	Elevators and Escalators	0		N	
3.8.2	Other Energy Efficient Equipment	6			
3.9	Renewable Energy	0			
3.9.1	On-site Renewable Energy	0			NA
3.9.2	Off-site Renewable Energy	0		N	
3.10	Energy Efficient Transportation	17	Y		
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WATER		Maximum Points: 110	Y	N	?
4.1	Water Consumption	38	Y		
4.2	Cooling Towers	0			NA
4.3	Boilers and Water Heaters	4	Y		
4.4	Water Intensive Applications	0			
4.4.1	Commercial Food Service Equipment	0			NA
4.4.2	Laboratory and Medical Equipment	0			NA
4.4.3	Laundry Equipment	0			NA
4.4.4	Special Water Features	0			NA
4.5	Water Treatment	0			NA
4.6	Alternate Sources of Water	0			NA
4.7	Metering	0		N	
4.8	Irrigation	17	Y		
		59			

MATERIALS & RESOURCES		Maximum Points: 125	Y	N	?
5.1	Building Assembly (Core & Shell including Envelope)	15			?
5.2	Interior Fit-Out (including Finishes and Furnishings)	5			?
5.3	Reuse of Existing Structures	0		N	
5.3.1	Facades	0		N	
5.3.2	Structural Systems	0		N	
5.3.3	Non-Structural Elements	0		N	
5.4	Waste	5			
5.4.1	Construction Waste	3	Y		
5.4.2	Operational Waste	2	Y		
5.5	Building Service Life Plan	0		N	
5.6	Resource Conservation	0		N	
5.6.1	Minimized Use of Raw Materials	0		N	
5.6.2	Multi-Functional Assemblies	0		N	
5.6.3	Deconstruction and Disassembly	0		N	
5.7	Building Envelope - Roofing/Openings	9			
5.7.1	Roofing Membrane Assemblies and Systems	3	Y		
5.7.2	Flashings	2	Y		
5.7.3	Roof and Wall Openings	4	Y		
5.8	Envelope - Foundation, Waterproofing	6			
5.8.1	Foundation Systems	4	Y		
5.8.2	Below Grade Wall Slabs and Above Grade Horizontal	2	Y		
5.9	Envelope - Cladding	5			
5.9.1	Exterior Wall Cladding Systems	3	Y		
5.9.2	Rainscreen Wall Cladding	2	Y		
5.1	Envelope - Barriers	5			
5.10.1	Air Barriers	4	Y		
5.10.2	Vapor Retarders	1	Y		
		49			

EMISSIONS		Maximum Points: 50	Y	N	?
6.1	Heating	14	Y		
6.2	Cooling	20			
6.2.1	Use of New or Existing Cooling Equipment (informational only)	0			NA
6.2.2	Ozone-Depleting Potential	10	Y		
6.2.3	Global Warming Potential	10	Y		
6.2.4	Leak Detection	0		N	
6.3	Janitorial Equipment	3			
		37			

INDOOR ENVIRONMENT		Maximum Points: 160	Y	N	?
7.1	Ventilation	30			
7.1.1	Ventilation Air Quantity	11	Y		
7.1.2	Air Exchange	8	Y		
7.1.3	Ventilation Intakes and Exhausts	6	Y		
7.1.4	CO2 Sensing and Ventilation Control Equipment	0		N	
7.1.5	Air Handling Equipment	5	Y		
7.2	Source Control and Measurement of Indoor Pollutants	28			
7.2.1	Volatile Organic Compounds	8	Y		
7.2.2	Leakage, Condensation and Humidity	4	Y		
7.2.3	Access for HVAC Maintenance	4	Y		
7.2.4	Carbon Monoxide Monitoring	4	Y		
7.2.5	Wet Cooling Towers	0		NA	
7.2.6	Domestic Hot Water Systems	2	Y		
7.2.7	Humidification and Dehumidification Systems	3	Y		
7.2.8	Pest and Contamination Control	2	Y		
7.2.9	Other Indoor Pollutants (Tobacco, Radon)	1	Y		
7.2.10	Ventilation and Physical Isolation for Specialized Activities	0		NA	
7.3	Lighting Design and Systems	6			
7.3.1	Daylighting	6	Y		
7.3.2	Lighting Design	0			
7.4	Thermal Comfort	6			
7.4.1	Thermal Comfort Strategies	0		NA	
7.4.2	Thermal Comfort Design	6			?
7.5	Acoustic Comfort	16			
7.5.1	Acoustic Comfort Design	8	Y		
7.5.2	Mechanical, Plumbing, and Electrical	8	Y		
		86			

TOTAL: 415.5 POTENTIAL POINTS

1000 POINTS AVAILABLE

(35%-54%) = 2 GREEN GLOBES

