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Green Building Ordinance

Sustainable Building Requirements for New Buildings and Additions

- City Owned or City Financed \geq 10,000 sq. ft. = LEED Silver or Higher
- Commercial and Multi-family $>$ 20,000 sq. ft. = LEED Silver or Higher
- Commercial and Multi-family 10,000–20,000 sq. ft. = LEED Silver or Higher or 8 ESBMNC Measures from 5 Categories. Complete Measure Summary below.

Information on the Green Building Ordinance (GBO) can be found on the City of Evanston website at <https://www.cityofevanston.org/government/departments/community-development/building-inspection-services/green-building-ordinance>

MEASURE SUMMARY

Project Address _____ Date _____

Project Name: _____

Project Description _____

Contact Person _____ Phone _____

LEED Silver or Higher:

- If meeting the GBO requirement by employing LEED Silver Rating or Higher check bullet.

Sustainable Measures:

If meeting the GBO requirement by employing Evanston Sustainable Building Measures for New Construction (ESBMNC), check all measures that apply to this project. Select at least eight measures from at least five categories. Each bullet below shall count as one measure unless noted otherwise.

Sustainable Sites Category:

- Use permeable materials for at least 50% of driveways, patios, and walkways.
- Provide 50% of pervious materials for at least 50% of non-covered parking areas.
- Implement a stormwater management plan that captures and treats the stormwater runoff from 90% of the average annual rainfall using acceptable best management practices (BMP) which are capable of removing 80% of the average post-development total suspended solids.
- Develop on a site documented as contaminated by means of an ASTM E1903-97 Phase II Environmental Site Assessment or brownfield designation from a state, local, or federal government agency. (worth 2 measures)
- Provide bicycle racks and/or storage within 200 yards of building entrance capable of accommodating a minimum of 10 bicycles.

- Provide preferred parking for hybrid and electric vehicles for at least 5% of parking with a minimum of 1 preferred space. If electric charging stations for preferred electric vehicle parking spaces is provided this is worth an additional measure.)
- Use hardscape materials with a Solar Reflectance Index (SRI) of at least 29 for 80% of impervious area.

Water Use Category:

- All plumbing fixtures to be WaterSense, as applicable.
- Install a stormwater harvesting system.
- Install drought-tolerant native or adaptive landscape for at least 60% of non-paved site area.

Lighting Category:

- Install automatic daylighting controls in no less than 50% of interior spaces within 15 feet of perimeter.
- Exceed the Lighting Power Density (LPD) of the current City of Evanston Energy Code by not less than 5%. Compliance to be shown using *COMcheck*.
- Exterior lighting fixtures shall be Dark Sky compliant.
- Provide exterior lighting controls which are compliant with the current version of ANSI/ASHRAE/IESNA Standard 90.1, Section 9.4.1.3.

Mechanical Systems Category:

- All warm air combustion furnaces: minimum Annual Fuel Utilization Efficiency (AFUE) of 90%.
- All Air Conditioners and Condensing Units greater than 65,000 BTU: minimum SEER rating of 15.
- All Electronically Operated Unitary Air Conditioners and Condensing Units less than 65,000 BTU: minimum SEER rating of 12.
- Commission the mechanical and lighting systems in accordance with LEED for New Construction, Energy and Atmosphere, Prerequisite 1 – Fundamental Commissioning of the Building Energy System.
- Provide mechanical, lighting, and miscellaneous electrical system monitoring with the capability to capture the data for a minimum of one year (worth 2 measures).

Alternative Energy Category:

Offset annual building energy use with on-site renewable energy by:

- Off-peak Thermal Storage: provide a minimum of 50% of the cooling load (worth 3 measures).
- Solar PV: offset a minimum of 3% of electricity use (worth 2 measures).
- Solar PV: offset a minimum of 6% of electricity use (worth 3 measures).
- Geothermal: install a geothermal system (worth 3 measures).
- Solar Thermal: provide a minimum of 50% of annual hot water energy needs for domestic and/or process and/or space heat.
- Provide at least 35% of the building electricity from renewable sources by purchasing renewable energy in accordance with LEED for New Construction, Energy and Atmosphere, Credit 6 – Green Power.
- Provide at least 70% of the building electricity from renewable sources by purchasing renewable energy in accordance with LEED for New Construction, Energy and Atmosphere, Credit 6 – Green Power (worth 2 measures).

Building Envelope Category:

- Exceed the prescriptive envelope provisions of the current City of Evanston Energy Code by no less than 7.5%. Compliance shall be shown by using *COMcheck*.
- Exceed the prescriptive envelope provisions of the current City of Evanston Energy Code by no less than 15%. Compliance shall be shown by using *COMcheck* (worth 2 measures).
- Install an ENERGY STAR qualified roof.
- Provide a vegetative roof over no less than 20% of the roof area (worth 2 measures).

Materials and Reuse Category:

- Storage and Collection of Recyclable shall be provided for occupants, customers, and visitors for the top three recycling streams.
- Construction Waste Management: recycle and/or salvage at least 50% of non-hazardous construction and demolition materials and waste.

Indoor Air Quality Category:

- Use low VOC finishes as defined by LEED for New Construction Indoor, Environmental Quality Credits 4.1, 4.2, 4.3, and 4.4. (worth 1 measure for every two of the following):
 - All field applied paints and coatings
 - All field applied adhesives
 - All carpeting
 - All Furniture systems (GreenGuard Certified)
 - All composite wood shall be free from urea-formaldehyde

Measure Summary:

Total ESBMNC Measures _____ From Number of Categories _____

Floor Area of New Building or Addition: _____ sq. ft.

Submitted by: _____
Firm

Name / Signature