

## CHAPTER 24 - BIRD FRIENDLY BUILDING DESIGN

## 4-24-1. - ADOPTION.

Pursuant to its home rule powers, the City of Evanston hereby adopts by reference as its standard for bird-friendly building design, the City of Evanston Bird Friendly Building Design Guide.

There shall be a copy of the City of Evanston Bird Friendly Building Design Guide kept on file for public inspection in the City Clerk's office.

(Ord. No. 83-O-22, § 1, 9-12-2022)

## APPENDIX A: EVANSTON SUSTAINABLE BUILDING MEASURES FOR INTERIOR RENOVATIONS

Each bullet point below shall count for one (1) measure unless otherwise noted below. Applicants may choose measures from various categories or several from one (1) category.

*Stormwater management.*

- All hardscape no less than fifty (50) percent permeable.

*Water use.*

- All plumbing fixtures - Use WaterSense labeled as applicable.
- Install a greywater or stormwater harvesting system.

*Lighting.*

- Install automatic daylighting controls in no less than fifty (50) percent of interior spaces within fifteen (15) feet of perimeter.
- Exceed the lighting power density (LPD's) of the current City of Evanston Energy Code by no less than five (5) percent. Compliance to be shown using COMcheck.

*Mechanical.*

- All warm air combustion furnaces: Minimum annual fuel utilization efficiency (AFUE) of ninety (90) percent.
- All air conditioners and condensing units < sixty-five thousand (65,000) btu/h: Minimum SEER rating of fifteen (15).
- All electronically operated unitary air conditioners and condensing units > sixty-five thousand (65,000) btu/h: minimum EER rating of twelve (12).

- Commission the mechanical and lighting systems in accordance with ASHRAE guideline 0.
- Provide mechanical, lighting and miscellaneous electrical system monitoring with the capability to log the data for a minimum of one (1) year.
- Perform retro commissioning under the Energy Star Program for existing commercial building guidelines.
- Provide for three (3) percent of the building annual energy use with on-site renewable energy production.
- Register and obtain building operator certification via the Midwest Energy Efficiency Alliance (MEEA) Program.

*Building enclosure.*

- Exceed the prescriptive envelope provisions of current City of Evanston Energy Code by no less than seventeen and one-half (17.5) percent. Compliance shall be shown using COMcheck.
- Exceed the prescriptive envelope provisions of current City of Evanston Energy Code by no less than thirty-five (35) percent. Compliance shall be shown using COMcheck (worth two (2) measures).
- Install an Energy Star-compliant roof.
- Provide a vegetative roof over no less than twenty (20) percent of the roof area.

*Materials and resources.*

- Building reuse - Maintain no less than seventy-five (75) percent of existing walls, floors and roof.
- Building reuse - Maintain no less than fifty (50) percent of non-shell elements.
- No less than seventy-five (75) of all new wood to be Forest Stewardship Council (FSC) certified.
- Reuse of resources - No less than ten (10) percent of project materials (sell, donate, reuse).
  - a. Non-code windows for nonconditioned space;
  - b. Lumber, wood scraps, reusable forms;
  - c. Unused supplies;
  - d. Fixtures and appliances.
- Use of recycled content materials - No less than ten (10) percent of project materials.
- Use of recycled content materials - No less than twenty (20) percent of project materials (worth two (2) measures).

- Local/regional materials - No less than ten (10) percent of project materials or products that have been extracted, harvested or recovered, as well as manufactured, within five hundred (500) miles of the project site.
- Use 40—50-year material rated for roof replacements.
- Rapidly renewable materials - No less than two and one-half (2.5) percent of the project.

*Interior finishes.*

- Use low VOC finishes (worth one (1) measure for every two (2) of the following):
  - a. All paints and coatings;
  - b. All field applied adhesives;
  - c. All carpeting;
  - d. All furniture systems - Greenguard certified;
  - e. All composite wood shall be free from urea-formaldehyde.

(Ord. No. 17-O-11, § 1, 2-28-2011; Ord. No. 8-O-12, (48-O-11(exh. A, § 4-21(app. A))), 1-23-2012)

## APPENDIX B: EVANSTON SUSTAINABLE BUILDING MEASURES FOR NEW CONSTRUCTION

Each bullet point below shall count for one (1) measure unless otherwise noted below. Applicants may choose measures from various categories or several from one (1) category.

*Sustainable sites.*

- Use permeable materials for at least fifty (50) percent of driveways, patios and walkways.
- Provide fifty (50) pervious materials for at least fifty (50) of noncovered parking area.
- Implement a stormwater management plan that captures and treats the stormwater runoff from ninety (90) percent of the average annual rainfall using acceptable best management practices (BMP) which are capable of removing eighty (80) percent of the average annual 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 governmental agency (worth two (2) measures).
- Provide bicycle racks and/or storage within two hundred (200) yards of building entrance capable of accommodating a minimum of ten (10) bicycles.
- Provide preferred parking for hybrid and electric vehicles for at least five (5) percent of parking with a minimum of one (1) preferred parking space.

- o Provide electric vehicle charging stations for preferred electric vehicle parking (worth one (1) additional measure).

- Use hardscape materials with a Solar Reflectance Index (SRI) of at least twenty-nine (29) for eighty (80) percent of impervious surfaces.

*Water use.*

- All plumbing fixtures - Use WaterSense labeled.
- Install a stormwater harvesting system.
- Install drought-tolerant native or adapted landscape for at least sixty (60) percent of nonpaved site area.

*Lighting.*

- Install automatic daylighting controls in no less than fifty (50) percent of interior spaces within fifteen (15) feet of perimeter.
- Exceed the lighting power density (LPD) of the current City of Evanston Energy Code by no less than five (5) percent. Compliance to be shown using COMcheck.
- Exterior lighting fixtures shall all 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.*

- All warm air combustion furnaces: Minimum annual fuel utilization efficiency (AFUE) of ninety (90) percent.
- All Air conditioners and condensing units < sixty-five thousand (65,000) btu/h: Minimum SEER rating of fifteen (15).
- All electronically operated unitary air conditioners and condensing units > sixty-five thousand (65,000) btu/h: Minimum EER rating of twelve (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 systems.
- Provide mechanical, lighting and miscellaneous electrical system monitoring with the capability to capture the data for a minimum of one (1) year (worth two (2) measures).

*Alternative energy.*

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

- Off-peak thermal storage - Provide minimum fifty (50) percent of cooling load (worth three (3) measures).
- Solar PV - Offset minimum of three (3) percent electricity use (worth two (2) measures).
- Solar PV - Offset minimum of six (6) percent electricity use (worth three (3) measures).
- Geothermal - Install geothermal system (worth three (3) measures).
- SolarThermal - Provide minimum of fifty (50) percent of annual hot water energy needs for domestic and/or process and/or space heat.
- Provide at least thirty-five (35) percent of building electricity from renewable sources by purchasing renewable energy in accordance with LEED for New Construction, Energy and Atmosphere, Credit 6 - Green Power.
- Provide seventy (70) percent of building electricity from renewable sources by purchasing renewable energy in accordance with LEED for New Construction, Energy and Atmosphere, Credit 6 - Green Power (worth two (2) measures).

*Building envelope.*

- Exceed the prescriptive envelope provisions of current City of Evanston Energy Code by no less than seven and one-half (7.5) percent. Compliance shall be shown using COMcheck.
- Exceed the prescriptive envelope provisions of current City of Evanston Energy Code by no less than fifteen (15) percent. Compliance shall be shown using COMcheck (worth two (2) measures).
- Install an ENERGY STAR<sup>®</sup> qualified roof.
- Provide a vegetative roof over no less than twenty (20) percent of the roof area (worth two (2) measures).

*Materials and reuse.*

- Storage and collection of recyclables - Provide recycling for occupants, customers and visitors and for the top three (3) operationally generated streams.
- Construction waste management - Recycle and/or salvage at least fifty (50) percent of nonhazardous construction and demolition.

*Indoor environmental quality.*

- 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 one (1) measure for every two (2) of the following):
  - o All field applied paints and coatings;

- o All field applied adhesives;
- o All carpeting;
- o All furniture systems - Greenguard certified;
- o All composite wood shall be free from urea-formaldehyde.

(Ord. No. 53-0-11, § 5, 6-13-2011; Ord. No. 8-O-12, (48-O-11(exh. A, § 4-21(App. B))), 1-23-2012)