

LEED REQUIREMENTS

The *University of Illinois at Urbana-Champaign Facilities Standards* includes language to comply with components of the LEED 2009 for New Construction and Major Renovations Rating System developed by the U.S. Green Building Council. The *Standards* require compliance with all 8 Required Prerequisites and several additional Credits listed in the LEED Rating System. Certain credits only apply to new buildings and/or major renovations and are mentioned in the notes to the AE. For minor renovations, credits that are not applicable to the specific project may be disregarded. The following text is taken directly from the LEED 2009 for New Construction and Major

Renovations Rating System, and shall be adhered to on every U of I Project. Although these requirements are embedded in the appropriate sections within the *Standards*, they are listed again here for clarity. Requirements pertaining to work on the U of I campus that are more specific than the general LEED requirements are included below by means of notes to the AE. For all Projects with a budget of at least \$5,000,000, the new or renovated building must receive LEED certification at the Gold Level. For smaller projects, contact the U of I for certification requirements.

LEED Required Prerequisites – 8 Total

Sustainable Sites

SS Prerequisite 1: Construction Activity Pollution Prevention

Intent

To reduce pollution from construction activities by controlling soil erosion, waterway sedimentation and airborne dust generation.

Requirements

Create and implement an erosion and sedimentation control plan for all construction activities associated with the project. The plan must conform to the erosion and sedimentation requirements of the 2003 EPA Construction General Permit OR local standards and codes, whichever is more stringent.

Water Efficiency

WE Prerequisite 1: Water Use Reduction

Intent

To increase water efficiency within buildings to reduce the burden on municipal water supply and wastewater systems.

Requirements

Employ strategies that in aggregate use 20% less water than the water use baseline calculated for the building (not including irrigation).

Energy & Atmosphere

EA Prerequisite 1: Fundamental Building Systems Commissioning

[Note to AE: See the Commissioning Process general guideline and Section 01 91 13 - General Commissioning Requirements within these Standards for additional information.]

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Intent

To verify that the project's energy-related systems are installed, and calibrated to perform according to the owner's project requirements, basis of design and construction documents. Benefits of commissioning include reduced energy use, lower operating costs, fewer contractor callbacks, better building documentation, improved occupant productivity and verification that the systems perform in accordance with the owner's project requirements.

EA Prerequisite 2: Minimum Energy Performance

Intent

To establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.

Requirements

Whole Building Energy Simulation

EA Prerequisite 3: Fundamental Refrigerant Management

Intent

To reduce stratospheric ozone depletion.

Requirements

Zero use of chlorofluorocarbon (CFC)-based refrigerants in new base building heating, ventilating, air conditioning and refrigeration (HVAC&R) systems. When reusing existing base building HVAC equipment, complete a comprehensive CFC phase-out conversion prior to project completion. Phase-out plans extending beyond the project completion date will be considered on their merits.

Potential Technologies & Strategies

When reusing existing HVAC systems, conduct an inventory to identify equipment that uses CFC-based refrigerants and provide a replacement schedule for these refrigerants. For new buildings, specify new HVAC equipment in the base building that uses no CFC-based refrigerants.

Materials & Resources

MR Prerequisite 1: Storage & Collection of Recyclables

Intent

To facilitate the reduction of waste generated by building occupants that is hauled to and disposed of in landfills.

Requirements

Provide an easily-accessible dedicated area or areas for the collection and storage of materials for recycling for the entire building. Materials must include, at a minimum: paper, corrugated cardboard, glass, plastics and metals.

Potential Technologies & Strategies

Designate an area for recyclable collection and storage that is appropriately sized and located in a convenient area. Identify local waste handlers and buyers for glass, plastic, metals, office paper, newspaper, cardboard and organic wastes. Instruct occupants on recycling procedures. Consider employing cardboard balers, aluminum can crushers, recycling chutes and other waste management strategies to further enhance the recycling program.

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Indoor Environmental Quality

IEQ Prerequisite 1: Minimum Indoor Air Quality Performance

Intent

To establish minimum indoor air quality (IAQ) performance to enhance indoor air quality in buildings, thus contributing to the comfort and well-being of the occupants.