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CONSTRUCTION SUSTAINABLE DESIGN STANDARDS

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Abstract:

This standard describes general requirements and procedures for compliance with certain USGBC Leadership in Energy & Environmental Design (LEED) prerequisites and credits needed to obtain LEED Silver Certification.

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DOCUMENT CHANGE RECORD

Issue	Item	Reason for Change

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PART 1: GENERAL

1.1 RELATED DOCUMENTS

Procurement documents

1.2 SUMMARY

This Standard includes general requirements and procedures for compliance with certain USGBC Leadership in Energy & Environmental Design (LEED) prerequisites and credits needed for the Project to obtain LEED Silver certification based on LEED-NC, [REDACTED] LEED-CI, [REDACTED] or LEED-CS, [REDACTED]

Other LEED prerequisites and credits needed to obtain LEED certification depend on material selections and may not be specifically identified as LEED requirements. Compliance with requirements needed to obtain LEED prerequisites and credits may be used as one criterion to evaluate substitution requests and comparable product requests. Additional LEED prerequisites and credits needed to obtain the indicated LEED certification depend on the design and other aspects of the Project that are not part of the Work of the Contract.

1.3 DEFINITIONS

Chain-of-Custody Certificates:

Certificates signed by manufacturers certifying that wood used to make products was obtained from forests certified by an FSC-accredited certification body to comply with FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship." Certificates shall include evidence that the manufacturer is certified for chain of custody by an FSC-FSC-accredited certification body.

Rapidly Renewable Materials:

Materials made from plants that are typically harvested within a 10-year or shorter cycle. Rapidly renewable materials include products made from bamboo, cotton, flax, jute, straw, sunflower seed hulls, vegetable oils or wool.

Regional Materials:

Materials that have been extracted, harvested or recovered as well as manufactured within 500 miles of the Project site. If only a fraction of a product or material is extracted/harvested/recovered and manufactured locally then only that percentage (by weight) shall contribute to the regional value.

Regionally Manufactured Materials:

Materials that are manufactured within a radius of 500 miles from the Project site. Manufacturing refers to the final assembly of components into the building product that is installed at the Project site.

Regionally Extracted and Manufactured Materials:

Regionally manufactured materials made from raw materials that are extracted, harvested or recovered within a radius of 500 miles from the Project site.

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Recycled Content:

The recycled content value of a material assembly shall be determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value.

"Post-consumer" material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end users of the product that can no longer be used for its intended purpose.

"Pre-consumer" material is defined as material diverted from the waste stream during the manufacturing process. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it.

1.4 SUBMITTALS

General:

LEED submittals are in addition to other submittals. If a submitted item is identical to that submitted to comply with other requirements, submit duplicate copies as a separate submittal to verify compliance with indicated LEED requirements.

Project Materials Cost Data:

Provide statement indicating total cost for materials used for the Project. Costs exclude labor, overhead and profit. Include breakout of costs for the following categories of items:

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

LEED Action Plans:

Provide preliminary submittals within seven days of date established for commencement of the Work, indicating how the following requirements will be met:

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

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- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

LEED Progress Reports:

Concurrent with each Application for Payment, submit reports comparing actual construction and purchasing activities with LEED action plans for the following:

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

LEED Documentation Submittals:

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

- [Redacted]
- [Redacted]
- [Redacted]

Construction Documentation:

[Redacted]

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

1.5 QUALITY ASSURANCE

LEED Coordinator:

Engage an experienced LEED-Accredited Professional to coordinate LEED requirements. LEED coordinator may also serve as waste management coordinator.

PART 2: PRODUCTS

This section is not applicable if no salvaged materials are available.

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2.1 SALVAGED AND REFURBISHED MATERIALS

- [Redacted]
- [Redacted]

2.2 RECYCLED CONTENT OF MATERIALS

- [Redacted]
- [Redacted]
- [Redacted]

2.3 REGIONAL MATERIALS

This section is not applicable if no regional materials are available.

- [Redacted]

2.4 CERTIFIED WOOD

- [Redacted]

Wood-based materials include but are not limited to the following materials when made from wood, engineered wood products or wood-based panel products:

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

PART 3: EXECUTION

3.1 REFRIGERANT AND CLEAN AGENT FIRE EXTINGUISHING AGENT REMOVAL

- [Redacted]
- [Redacted]

3.2 MEASUREMENT AND VERIFICATION

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

3.3 CONSTRUCTION WASTE MANAGEMENT

Credit MR 2.1 and Credit MR 2.2: Comply with "CLEANING AND WASTE MANAGEMENT".

3.4 CONSTRUCTION INDOOR-AIR-QUALITY MANAGEMENT

Credit EQ 3 EQ 3.1: Comply with SMACNA's "SMACNA IAQ Guideline for Occupied Buildings under Construction."

If the Customer authorizes use of permanent heating, cooling and ventilating systems during construction period, install filter media having a MERV 8 according to ASHRAE 52.2 at each return-air inlet for the air-handling system used during construction. Replace all air filters immediately prior to occupancy with filter media having a MERV 13.

Credit EQ 3.2: Comply with one of the following requirements:

- [Redacted]
- [Redacted]



Air-Quality Testing:

Conduct baseline indoor-air-quality testing after construction ends and prior to occupancy using



Demonstrate that the contaminant maximum concentrations listed below are not exceeded:

- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

For each sampling point where the maximum concentration limits are exceeded, conduct



Air-sample testing shall be conducted as follows:

- [Redacted]
- Building shall have all interior finishes installed including but not limited to millwork, doors, paint, [Redacted]
- [Redacted]
- [Redacted]
- [Redacted]

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