# PART 1 - GENERAL

## 1.1 SUMMARY

A. This Section includes general requirements and procedures for compliance with certain USGBC LEED prerequisites and credits needed for the Project to achieve the targeted LEED Gold Certification under the LEED™ Rating System, Version 3.0 (2009) – Green Building Rating System for New Construction from the U.S. Green Building Council (USGBC) and Green Building Certification Institute (GBCI).
   1. Other LEED prerequisites and credits needed to obtain LEED certification depend on material selections and may not be specifically identified as LEED requirements.

B. Additional LEED prerequisites and credits needed to obtain the indicated LEED certification depend on the Architect's design and other aspects of Project that are not part of the Work of the Contract.
   1. LEED credits dependent on material selection require the Contractor to establish and maintain a Material and Resource Calculator (tracking log).

C. General Contractor and subcontractors have essential roles in the credits related to products and procedures used for construction. Credits outlined in this section relate to the products and procedures used for construction, which are the responsibility of the Contractor to implement and document. The full cooperation of the Contractor and subcontractors is essential to achieving final certification.

D. Compliance with requirements needed to obtain LEED prerequisites and credits will be used as one criterion to evaluate substitution requests.

E. The Contractor shall be familiar with the relevant LEED requirements and provide the necessary information and instruction to all subcontractors and installers.
   1. A copy of the LEED™ BD&C Reference Guide shall be kept on site.

F. Related Sections: The following Sections contain requirements that relate to this Section:
   1. Section 017419, “Construction Waste Management”;
   2. Section 018119, “Indoor Air Quality Management”
   3. Divisions 03-10, 31 and 32 Sections for “LEED Submittal Requirements” and “LEED Material Requirements.”

## 1.2 SUBMITTAL PROCEDURES

A. General: Submit additional LEED submittals required by other Specification Sections.

B. LEED submittals are in addition to other submittals. If 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.

C. Project Materials Cost Data: Provide the necessary material and cost data required for credit calculations on the LEED Materials Buyout Form, including the total Project materials cost and itemized costs of specific materials being tracked for LEED credits. All material costs exclude labor and construction equipment and include Divisions 03-10, 31 and 32 Sections (only Foundations, Paving, Site Improvements and Planting) (the total materials cost is exclusive of specialties: Conveying Systems and Mechanical and Electrical components).

D. LEED Action Plans: Within 30 days of Notice to Proceed submit the following action plans to the Architect and the Owner:
   1. Credit MRc2: Construction Waste Management Plan complying with Section 017419 "Construction Waste Management."
   2. Credit EQc3.1 and EQc3.2: Construction Indoor Air Quality Management Plan during construction and before occupancy, complying with Section 018119 "Indoor Air Quality Management."

E. LEED Progress Reports: Concurrent with each Application for Payment, submit reports comparing actual construction and purchasing activities with LEED action plans for the following:
   1. Prerequisite SSp1, Construction Activity Pollution Prevention: Erosion and Sedimentation Control, work plan complying with Division 31 Section "Site Clearing" and Division 32 Section "Earth Moving."
   2. Credit MRc2, Construction Waste Management: Waste reduction progress reports complying with Division 01 Section "Construction Waste Management."
   3. Credit MRc4, Recycled Content: Summary of product data and material costs collected for all recycled content materials (post-consumer and pre-consumer) that have been purchased or installed.
   4. Credit MRc5, Regional Materials: Summary of product data and material costs collected for all regional materials (manufactured, extracted, harvested or recovered) that have been purchased or installed.
   5. Credit EQc3.1 and EQc3.2, Construction Indoor Air Quality Management plan during construction and before occupancy: Include six photographs taken on at least three different occasions during construction showing implemented SMACNA measures complying with Section 018119 "Indoor Air Quality Requirements," and include flush out schedule in construction schedule or date for IAQ testing.
   6. EQc4, Low-Emitting Materials: Summary of product data collected for all adhesives, sealants, paints, coatings, carpeting, hard surface and resilient flooring systems, composite wood, agrifiber and laminate adhesives that are installed inside of the building's moisture barrier.
   7. IDc1.2, Low-Emitting Materials-ceilings and walls: Summary of product data collected for all drywall, insulation, and acoustical ceilings systems.

F. LEED Documentation Submittals: Submit the following for each applicable LEED Prerequisite or Credit.
   1. Prerequisite SSp1, Construction Activity Pollution Prevention:
      a. Storm Water Pollution Prevention Plan (SWPPP).
      b. Construction Documentation: date-stamped photos, which show the implemented measures and any corrective actions that, were taken.
   2. Prerequisite/Credits WEp1 and WEc3, Water Use Reduction: Summary of all product data collected for all plumbing fixtures that have been purchased and installed.
   3. Prerequisite//Credit EAp1 and EAc3, Fundamental and Enhanced Commissioning of the Building Energy Systems: Summary of all product data collected for all building energy systems materials and equipment that have been purchased and installed.
   4. Prerequisite EAp3, Fundamental Refrigerant Management: CFC Reduction in HVAC&R Equipment Summary of all product data collected for all refrigerant equipment that has been purchased and installed.
   5. Credit EAc4, Enhanced Refrigerant Management: Summary of all product data collected for all refrigerant equipment that has been purchased and installed.
   6. Credit MRc2, Construction Waste Management:
      a. Comply with Section 017419 "Construction Waste Management."
      b. Construction Waste Management Plan.

c. Complete LEED construction waste calculations.
d. Itemized waste hauling certificates/receipts for all waste removed from the Project site and documentation of recycling recovery rate for off-site sorting facilities (if waste is commingled).

7. Credit MRc4, Recycled Content:
   a. Cutsheet, product literature or letter from manufacturer that clearly indicates the percentage by weight of post-consumer and pre-consumer (post-industrial) recycled content.
   b. Material cost.
   c. Complete LEED recycled content calculations.
8. Credit MRc5, Regional Content:
   a. Cutsheet, product literature or letter from manufacturer indicating the location of harvest, processing and manufacturer and proximity from the project site.
   b. Material cost.
   c. Complete LEED regional content calculations.
9. Credit EQc3.1, Construction Indoor Air Quality Management Plan – During Construction:
   a. Construction Indoor Air Quality (IAQ) Management Plan.
   b. Product date for temporary filtration media verifying a Minimum Efficiency Reporting Value (MERV) of 8 and narrative describing change out procedure.
   c. Construction Documentation: Six photographs at three different occasions during construction along with a brief description of the SMACNA (Sheet Metal and Air Conditioning Contractor's National Association) approach employed, documenting implementation of the indoor air quality management measures, such as protection of ducts and on-site stored or installed absorptive materials.
   d. Narrative describing the Project's specific flush-out procedures complying with the EQc3.2 requirements per Section 018119 "Indoor Air Quality Management."
10. Credit EQc3.2, Construction Indoor Air Quality Management Plan – Before Occupancy:
    a. Signed statement describing the building air flush-out procedures including the dates when flush out was begun and completed and statement that filtration media was replaced after flush out.
    b. Product data for filtration media used during flush out and during occupancy.
    c. Report from testing and inspecting agency indicating results of indoor air quality testing and documentation showing compliance with indoor air quality testing procedures and requirements.
11. Credit EQc4.1, Low-Emitting Materials – Adhesives and Sealants:
    a. Product data and Material Safety Data Sheets (MSDS) for all adhesives and sealants used inside the building's weatherproofing system indicating the Volatile Organic Compound (VOC) content of each product and verifying that each product meets the LEED requirements (Refer to "Low Emitting Materials" paragraph in Part 2). Indicate VOC content in grams/liter (g/L).
    b. List of all installed adhesives and sealants including manufacturer, quantity used in gallons and VOC content.
    c. Complete LEED adhesives and sealants calculations.
12. Credit EQc4.2, Low-Emitting Materials – Paints and Coatings:
    a. Product data and Material Safety Data Sheets (MSDS) for all paints and coatings used inside the building's moisture barrier indicating the VOC content of each product and verifying that each product meets the LEED requirements (Refer to "Low Emitting Materials" paragraph in Part 2). Indicate VOC content in grams/liter (g/L).

b. List of all installed paints and coatings including manufacturer, quantity used in gallons and VOC content.
c. Complete LEED paints and coatings calculations.

13. Credit EQc4.3, Low-Emitting Materials – Flooring Systems:
    a. Carpet: Must meet the testing and product requirements of the CRI Green Label Plus Program.
    b. Cushion: Must meet the testing and product requirements of the CRI Green Label Plus Program.
    c. Adhesives: Must meet the requirements of EQc4.1.
    d. Hard surface flooring must meet the requirements of the FloorScore standard (current as of the date of this rating system, or more stringent version) as shown with testing by an independent third party. Mineral-based finish flooring products such as tile, masonry, terrazzo, and cut-stone without integral organic-based coatings and sealants and unfinished/untreated solid wood flooring qualify for credit without any IAQ testing requirements. However, associated site-applied adhesives, grouts, finish and sealers must be compliant for a mineral-based or unfinished/untreated solid wood flooring system to qualify for credit.
    e. Concrete, wood, bamboo and cork floor finishes such as sealer, stain and finish must meet requirements of the South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect January 1, 2004.
    f. Tile setting adhesives and grout must meet South Coast Air Quality Management District (SCAQMD) Rule 1168. VOC limits correspond to an effective date of July 1, 2005 and rule amendment date of January 7, 2005.
14. Credit EQc4.4, Low-Emitting Materials – Composite Wood and Agrifiber Products: Product data for products containing composite wood or agrifiber products or wood glues indicating that they do not contain urea-formaldehyde resin. This requirement is for both shop and field applied.
    a. Cutsheets or letter from manufacturer clearly indicating that all composite wood and agrifiber products contain no added urea-formaldehyde.
    b. Laminating adhesives used to fabricate onsite and shop applied composite wood and agrifiber assemblies must not contain any added urea-formaldehyde.
15. Innovation in Design Credit IDc1.2, Low-Emitting Materials-ceilings and walls: Product data for drywall, insulation, and acoustical ceiling panels indicating that they have been tested in accordance with the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from various sources using small-scale environmental chambers, including 2004 Addenda.

## 1.3 QUALITY ASSURANCE

A. LEED Coordinator: Contractor shall have an experienced LEED-Accredited Professional to coordinate LEED requirements.

# PART 2 - PRODUCTS

## 2.1 RECYCLED CONTENT OF MATERIALS

A. Credit MRc4.1 and MRc4.2: Provide building materials with recycled content such that post-consumer recycled content plus one-half of pre-consumer recycled content

constitutes a minimum of 10 percent of cost of total materials (excluding MEP equipment) used for Project.

1. Cost of post-consumer recycled content of an item shall be determined by dividing weight of post-consumer recycled content in the item by the total weight of the item and multiplying by the cost of the item.
2. Cost of post-consumer recycled content plus one-half of pre-consumer recycled content of an item shall be determined by dividing weight of post-consumer recycled content plus one-half of pre-consumer recycled content in the item by total weight of the item and multiplying by cost of the item.
3. Recycled content of materials shall be defined according to the ISO 14021 Environmental Labels and Declarations – Self declared environmental claims (Type II environmental labeling).

2.2 REGIONAL MATERIALS

A. Credit MRc5.1and MRc5.2: Provide a minimum of 10 percent of building materials (by cost) that are regional materials (extracted, harvested or recycled, and processed, and manufactured within 500 linear miles from the project site).
   1. Include Divisions 03-10, 31 and 32 Sections (as related to Foundations, Paving, Site Improvements and Planting) excluding labor and equipment costs.
   2. If only a fraction of the material complies, then only that percentage (by weight) may contribute to the regional value.

2.3 LOW-EMITTING MATERIALS

A. Credit EQc4.1: For interior applications, use adhesives and sealants that comply with the following limits for VOC content established in South Coast Air Quality Management District (SCAQMD) Rule 1168 (July 1, 2005 and rule amendment date January 7, 2005) and Green Seal Standard for Commercial Adhesives GS-36 (October 19, 2000):
   1. Wood Glues: 30 g/L
   2. Metal-to-Metal Adhesives: 30 g/L.
   3. Adhesives for Porous Materials (Except Wood): 50 g/L.
   4. Subfloor Adhesives: 50 g/L.
   5. Plastic Foam Adhesives: 50 g/L.
   6. Carpet Adhesives: 50 g/L.
   7. Carpet Pad Adhesives: 50 g/L.
   8. VCT and Asphalt Tile Adhesives: 50 g/L.
   9. Cove Base Adhesives: 50 g/L.
   10. Gypsum Board and Panel Adhesives: 50 g/L.
   11. Rubber Floor Adhesives: 60 g/L.
   12. Ceramic Tile Adhesives: 65 g/L.
   13. Multipurpose Construction Adhesives: 70 g/L.
   14. Fiberglass Adhesives: 80 g/L.
   15. Contact Adhesive: 80 g/L.
   16. Structural Glazing Adhesives: 100 g/L.
   17. Wood Flooring Adhesive: 100 g/L.
   18. Structural Wood Member Adhesive: 140 g/L.
   19. Special Purpose Contact Adhesive (contact adhesive that is used to bond melamine covered board, metal, unsupported vinyl, Teflon, ultra-high molecular weight polyethylene, rubber or wood veneer 1/16 inch or less in thickness to any surface): 250 g/L.
   20. Top and Trim Adhesive: 250 g/L.
   21. Plastic Cement Welding Compounds: 250 g/L.

22. ABS Welding Compounds: 325 g/L.
23. CPVC Welding Compounds: 490 g/L.
24. PVC Welding Compounds: 510 g/L.
25. Adhesive Primer for Plastic: 550 g/L.
26. Sheet Applied Rubber Lining Adhesive: 850 g/L.
27. Aerosol Adhesive, General Purpose Mist Spray: 65 percent by weight.
28. Aerosol Adhesive, General Purpose Web Spray: 55 percent by weight.
29. Special Purpose Aerosol Adhesive (All Types): 70 percent by weight.
30. Other Adhesives: 250 g/L.
31. Architectural Sealants: 250 g/L.
32. Other Sealants: 420 g/L.
33. Sealant Primers for Nonporous Substrates: 250 g/L.
34. Sealant Primers for Porous Substrates: 775 g/L.
35. Other Sealant Primers: 750 g/L.

B. Credit EQc4.2: For applications inside the weatherproofing system, use paints and coatings that comply with the following limits for VOC content established in Green Seal Standard GS-11 (May 20, 1993), anti-corrosive and anti-rust paints shall comply with the following limits for VOC content established by Green Seal Standard GC-03 (January 7, 1997), and clear wood finishes, floor coatings, stains, primers, and shellacs shall comply with the following limits for VOC content established in South Coast Air Quality Management District (SCAQMD), Rule 1113 (January 1, 2004).
1. Interior Flat Coating or Primer: 50 g/L.
2. Interior Non-Flat Coating or Primer: 150 g/L.
3. Anti-Corrosive/ Anti-Rust Paint: 250 g/L.
4. Clear Wood Finish, Lacquer: 550 g/L.
5. Clear Wood Finish, Sanding Sealer: 350 g/L.
6. Clear Wood Finish, Varnish: 350 g/L.
7. Clear Brushing Lacquer: 680 g/L.
8. Floor Coatings: 100 g/L.
9. Sealers and Undercoaters: 200 g/L.
10. Shellac, Clear: SCAQMD 730 g/L.
11. Shellac, Pigmented: 550 g/L.
12. Stain: 250 g/L.
13. Concrete Curing Compounds: 350 g/L.
14. Japans / Faux Finishing Coatings: 350 g/L.
15. Magnesite Cement Coatings: 450 g/L.
16. Pigmented Lacquer: 550 g/L.
17. Waterproofing Sealers: 250 g/L.
18. Waterproofing Concrete/ Masonry Sealers: 400 g/L.
19. Wood Preservatives: 350 g/L.
20. Low-Solids Coatings: 120 g/L.

C. Credit EQc4.3: Flooring Systems:
1. All carpet installed in the building interior must meet the testing and product requirements of the CRI Green Label Plus program.
2. All carpet cushion installed in the building interior must meet the requirements of the CRI Green Label program.
3. All carpet adhesives shall meet the requirements of EQc4.1: VOC limit of 50 g/L.
4. All hard surface flooring must be certified as compliant with the FloorScore2 standard current as of the date of this rating system, or more stringent version), by an independent third-party. Mineral-based finish flooring products such as tile, masonry, terrazzo, and cut stone without integral organic-based coatings and sealants and unfinished/untreated solid wood flooring qualify for credit without any

IAQ testing requirements. However, associated site-applied adhesives, grouts, finish and sealers must be compliant for a mineral based or unfinished/untreated solid wood flooring system to qualify for credit.

5. Concrete, wood, bamboo and cork floor finishes such as sealer, stain and finish must meet the requirements of South Coast Air Quality Management District (SCAQMD) Rule 1113, Architectural Coatings, rules in effect on January 1, 2004.
6. Tile setting adhesives and grout must meet South Coast Air Quality Management District (SCAQMD) Rule 1168. VOC limits correspond to an effective date of July 1, 2005 and rule amendment date of January 7, 2005.

D. Credit EQc4.4: Composite Wood and Agrifiber Products:
1. Composite wood and agrifiber products used on the interior of the building (i.e. inside the weatherproofing system) must contain no added urea-formaldehyde resins.
2. Laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies must not contain added urea-formaldehyde resins.
3. Composite wood and agrifiber products are defined as:
   a. Particleboard.
   b. Medium Density Fiberboard (MDF).
   c. Plywood.
   d. Wheatboard.
   e. Strawboard.
   f. Panel Substrates.
   g. Door Cores.
   h. Glue Laminated (Glu-Lam) products (e.g. beams).

E. Innovation in Design Credit IDc1.2, Low-Emitting Materials-ceilings and walls:
1. All gypsum board, insulation, acoustical ceiling systems, and wall coverings installed in the building interior shall meet the testing and product requirements of the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from various sources using small-scale environmental chambers, including 2004 Addenda.

PART 3 - EXECUTION

1.2 COMMISSIONING

A. Prerequisite EAp1: Comply with the fundamental building commissioning requirements of LEED and Commissioning Requirements.

B. Credit EAc3: Comply with the additional (enhanced) commissioning requirements of LEED and Commissioning Requirements.

1.3 CONSTRUCTION WASTE MANAGEMENT

A. Credit MRc2: Comply with Section 017419 “Construction Waste Management.”

1.4 CONSTRUCTION INDOOR AIR QUALITY MANAGEMENT

A. Credit EQc3.1 and EQc3.2: Comply with Section 018119 “Indoor Air Quality Requirements”

1.5 LEED MATERIAL INFORMATION TRACKING

A. For LEED credits: MRc2, MRc4, AND MRc5, track LEED material and cost information using the USGBC’s BDC Material Tracker.

B. For MRc2, MRc4, MRc5, and EQc4 use the LEED Project Submittal Material Buyout Form. The Project LEED Consultant will provide electronic copies of this form.

1.6 ATTACHMENTS

A. LEED_Scorecard

B. LEED_Material_Buyout_Form

END OF SECTION

# LEED NC 2009 Scorecard

## SDSU Engineering and Interdisciplinary Science (EIS) Complex

9/23/2016

BRIGHTWORKS SUSTAINABILITY

| Yes | ?Y | ?N | No | Certified 40-49 | Silver 50-59 | Gold 60-79 | Platinum 80+ |
|---|---|---|---|---|---|---|---|
| 61 | 6 | 2 | 41 | | | | |

## Total Project Score

### Sustainable Sites — 26 Points Possible

| Y | ?Y | ?N | N | | | | |
|---|---|---|---|---|---|---|---|
| 20 | 0 | 1 | 5 | | | | |
| Y | | | | C | Prereq 1 | **Construction Activity Pollution Prevention** | n/a |
| 1 | | | | d | Credit 1 | **Site Selection** | 1 |
| 5 | | | | d | Credit 2 | **Development Density & Community Connectivity** | 5 |
| 1 | | | | d | Credit 3 | **Brownfield Redevelopment** | 1 |
| 6 | | | | d | Credit 4.1 | **Alternative Transportation**, Public Transportation Access | 6 |
| | | | 1 | d | Credit 4.2 | **Alternative Transportation**, Bicycle Storage & Changing Rooms | 1 |
| | | | 3 | d | Credit 4.3 | **Alternative Transportation**, Low Emitting & Fuel Efficient Vehicles | 3 |
| 2 | | | | d | Credit 4.4 | **Alternative Transportation**, Parking Capacity | 2 |
| | | 1 | | C | Credit 5.1 | **Site Development**, Protect or Restore Habitat (or 20% of site area) | 1 |
| 1 | | | | d | Credit 5.2 | **Site Development**, Maximize Open Space | 1 |
| 1 | | | | d | Credit 6.1 | **Stormwater Design**, Quantity Control | 1 |
| 1 | | | | d | Credit 6.2 | **Stormwater Design**, Quality Control | 1 |
| 1 | | | | C | Credit 7.1 | **Heat Island Effect**, Non-Roof | 1 |
| 1 | | | | d | Credit 7.2 | **Heat Island Effect**, Roof | 1 |
| | | | 1 | d | Credit 8 | **Light Pollution Reduction** | 1 |

### Water Efficiency — 10 Points Possible

| Y | ?Y | ?N | N | | | | |
|---|---|---|---|---|---|---|---|
| 6 | 0 | 0 | 4 | | | | |
| Y | | | | d | Prereq 1 | **Water Use Reduction**, 20% Reduction | n/a |
| 2 | | | 2 | d | Credit 1 | **Water Efficient Landscaping**, Reduce by 50% , No Potable Use | 2-4 |
| | | | 2 | d | Credit 2 | Innovative Wastewater Technologies | 2 |
| 4 | | | | d | Credit 3 | **Water Use Reduction**, 30%, 35%, 40% reduction | 2-4 |

### Energy & Atmosphere — 35 Points Possible

| Y | ?Y | ?N | N | | | | |
|---|---|---|---|---|---|---|---|
| 11 | 4 | 1 | 19 | | | | |
| Y | | | | C | Prereq 1 | **Fundamental Commissioning of the Building Energy Systems** | n/a |
| Y | | | | d | Prereq 2 | **Minimum Energy Performance - (10% Requirement)** | n/a |
| Y | | | | d | Prereq 3 | **Fundamental Refrigerant Management** | n/a |
| 6 | 2 | 1 | 10 | d | Credit 1 | **Optimize Energy Performance**, 12% to 48% | 1-19 |
| | | | 7 | d | Credit 2 | **On-Site Renewable Energy**, 1% to 13% | 1-7 |
| 2 | | | | C | Credit 3 | **Enhanced Commissioning** | 2 |
| 2 | | | | d | Credit 4 | **Enhanced Refrigerant Management** | 2 |
| 1 | | | 2 | C | Credit 5 | **Measurement & Verification** | 3 |
| | 2 | | | C | Credit 6 | **Green Power** 35% | 2 |

### Innovation & Design Process — 6 Points Possible

| Y | ?Y | ?N | N | | | | |
|---|---|---|---|---|---|---|---|
| 6 | 0 | 0 | 0 | | | | |
| 1 | | | | d | Credit 1.1 | **Exemplary Performance: SSc5.2** | 1 |
| 1 | | | | C | Credit 1.2 | **Exemplary Performance: Low Emitting Materials - ceilings, walls** | 1 |
| 1 | | | | C | Credit 1.3 | **Innovation in Design: Green Education** | 1 |
| 1 | | | | C | Credit 1.4 | **Exemplary Performance: SSc4.1** | 1 |
| 1 | | | | C | Credit 1.5 | **Innovation in Design: Fume Hood Cx** | 1 |
| 1 | | | | C | Credit 2 | **LEED™ Accredited Professional** | 1 |

### Materials & Resources — 14 Points Possible

| Y | ?Y | ?N | N | | | | |
|---|---|---|---|---|---|---|---|
| 4 | 2 | 0 | 8 | | | | |
| Y | | | | d | Prereq 1 | **Storage & Collection of Recyclables** | n/a |
| | | | 3 | C | Credit 1.1 | **Building Reuse**, Maintain Existing Walls, Floors & Roof | 1-3 |
| | | | 1 | C | Credit 1.2 | **Building Reuse**, Maintain 50% of Interior Non-Structural Elements | 1 |
| 1 | | | | C | Credit 2.1 | **Construction Waste Management**, Divert 50% | 1 |
| 1 | | | | C | Credit 2.2 | **Construction Waste Management**, Divert 75% | 1 |
| | | | 1 | C | Credit 3.1 | **Materials Reuse**, Specify 5% | 1 |
| | | | 1 | C | Credit 3.2 | **Materials Reuse**, Specify 10% | 1 |
| 1 | | | | C | Credit 4.1 | **Recycled Content**, 10% | 1 |
| | 1 | | | C | Credit 4.2 | **Recycled Content**, 20% | 1 |
| 1 | | | | C | Credit 5.1 | **Regional Materials**, 10% | 1 |
| | 1 | | | C | Credit 5.2 | **Regional Materials**, 20% | 1 |
| | | | 1 | C | Credit 6 | **Rapidly Renewable Materials** 2.5% | 1 |
| | | | 1 | C | Credit 7 | **Certified Wood** | 1 |

### Indoor Environmental Quality — 15 Points Possible

| Y | ?Y | ?N | N | | | | |
|---|---|---|---|---|---|---|---|
| 11 | 0 | 0 | 4 | | | | |
| Y | | | | d | Prereq 1 | **Minimum IAQ Performance** | n/a |
| Y | | | | d | Prereq 2 | **Environmental Tobacco Smoke** (ETS) **Control** | n/a |
| 1 | | | | d | Credit 1 | **Outdoor Air Delivery Monitoring** | 1 |
| 1 | | | | d | Credit 2 | **Increased Ventilation** | 1 |
| 1 | | | | C | Credit 3.1 | **Construction IAQ Management Plan**, During Construction | 1 |
| 1 | | | | C | Credit 3.2 | **Construction IAQ Management Plan**, Before Occupancy | 1 |
| 1 | | | | C | Credit 4.1 | **Low-Emitting Materials**, Adhesives & Sealants | 1 |
| 1 | | | | C | Credit 4.2 | **Low-Emitting Materials**, Paints & Coatings | 1 |
| 1 | | | | C | Credit 4.3 | **Low-Emitting Materials**, Flooring Systems | 1 |
| 1 | | | | C | Credit 4.4 | **Low-Emitting Materials**, Composite Wood & Agrifiber Products | 1 |
| | | | 1 | d | Credit 5 | **Indoor Chemical & Pollutant Source Control** | 1 |
| 1 | | | | d | Credit 6.1 | **Controllability of Systems**, Lighting | 1 |
| | | | 1 | d | Credit 6.2 | **Controllability of Systems**, Thermal Comfort | 1 |
| 1 | | | | d | Credit 7.1 | **Thermal Comfort**, Design | 1 |
| 1 | | | | d | Credit 7.2 | **Thermal Comfort**, Verification | 1 |
| | | | 1 | d | Credit 8.1 | **Daylight & Views**, Daylight 75% of Spaces | 1 |
| | | | 1 | d | Credit 8.2 | **Daylight & Views**, Views for 90% of Spaces | 1 |

### Regional Credits — 4 Points Possible

| Y | ?Y | ?N | N | | | | |
|---|---|---|---|---|---|---|---|
| 3 | 0 | 0 | 1 | | | | |
| 92182 | | | | | | ← **Project Zip Code** | |
| 1 | | | | d | Credit 1.1 | **SSc4.1: Alternative Transportation**, Public Transportation Access | 1 |
| 1 | | | | C | Credit 1.2 | **SSc7.1: Heat Island Effect**, Non-Roof | 1 |
| | | | 1 | d | Credit 1.3 | WEc2: Innovative Wastewater Technologies | 1 |
| 1 | | | | d | Credit 1.4 | **WEc3: Water Use Reduction**, 40% reduction | 1 |
| | | | 1 | d | Credit 1.5 | **EAc2: On-Site Renewable Energy**, 1% | 1 |
| | | | 1 | d | Credit 1.6 | **EQc8.1: Daylight &Views**, Daylight 75% of Spaces | 1 |

# LEED MATERIAL BUY-OUT FORM

BRIGHTWORKS SUSTAINABILITY

DATE:

For each product or material included in this sheet, please: **Complete ALL information fields** (if an item does not apply, enter "N/A") **AND Attach backup Source Information.**

Company Name:
Address:
Phone Number:
Fax Number:
Project Contact:

| Spec. Section | Product or Material | Source Information[1] (Attached) | Cost[2] | | Recycled Content[3] | | Regional Materials[4] | | | FSC Certified Wood[6] | | | VOC[7] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total Construction Cost (includes labor, equipment, materials) | Materials Cost (excludes labor, equipment) | % Post Consumer | % Pre Consumer (aka Post-Industrial) | % of Material Regionally Manufactured and Extracted | Distance between project & manufacture (in miles) | Distance between project & extraction (in miles) | % Wood | FSC Certified % of Wood Component | Forest Stewardship Council Chain-of-Custody Certificate Number | VOC Content (g/L) | Material Quantity (in gallons or liters) |
| | | | | | | | | | | | | | | |
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1 Attach S**ource Information** for the materials / products listed verifying each category claiming credit. Acceptable sources include product literature, a letter from the manufacturer or product cut sheets. Letters from the installer or vendor are not acceptable unless they are also the manufacturer.

2 **Construction cost** is the total contract cost of materials, labor and equipment for the installation of a given product or material. **Materials cost** is the construction cost minus the labor and equipment cost. Cost information is not required for adhesives sealants or paints reporting only VOC content (unless that product also claims credit for another category.

3 **Recycled content** is calculated by cost and percentages are determined by weight, separated into pre-consumer and post-consumer content. **Pre-Consumer** (aka post-industrial) recycled content is output from a process that has not been used as part of a consumer product, that is sold, traded, or exchanged under commercial terms as feedstock for another industrial process, and that would otherwise be landfilled, incinerated or somehow disposed of as waste, as defined by the Federal Trade Commission. **Post-Consumer** recycled content is consumer waste that has become raw material (feedstock) for another product. It originates from projects that have served a useful purpose in the consumer market.

4 **Manufacture location** is defined as the final assembly location of the product or material. **Extraction location** is where the source material was mined, harvested or collected. For recycled materials, the extraction point is the place where the recycling occurred. 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 (referred to as "***percent compliance***" per LEED). Any material with a manufacture or extraction point further than 500 miles, please indicate >500 in the corresponding box.

5 **Rapidly Renewable** is defined as materials that are harvested within ten years of being planted.

6 **Forest Stewardship Council (FSC)** is a third-party certification system adopted by timber management companies. A LEED point is earned if at least 50% of wood based products (by cost) used on the project carry this certification standard. The calculation includes the total cost of FSC-certified wood products divided by the total cost of wood-based products used on the project.

7 **VOC content** and total product quantity information must be provided for all adhesives, sealants, paints and coatings used within the building moisture barrier.

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