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**PART 1 GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General Conditions and Division 1 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. This Section includes general requirements and procedures for compliance with USGBC's LEED prerequisites and credits needed for Project to obtain LEED Platinum certification based on USGBC's "LEED Version 4 for Building Design and Construction" (hereafter, LEED v4 BD+C).
  - 1. Specific requirements for LEED are also included in other Sections.
  - 2. Other LEED prerequisites and credits needed to obtain LEED certification depend on product 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.
- B. Related Sections:
  - 1. Section 01 81 13 Sustainable Design Requirements – WELL v2 Pilot.
  - 2. Section 01 81 19 Indoor Air Quality Requirements.
  - 3. Section 01 91 00 General Commissioning Requirements.

**1.3 DEFINITIONS**

- A. BUG Rating: Classification system for luminaires defined in terms of backlight (B), uplight (U), and glare (G).
- B. 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. Certificates shall include evidence that manufacturer is certified for chain of custody by an FSC-accredited certification body.
- C. Cradle-to-Gate Assessment: Analysis of a product's partial life-cycle from extraction (cradle) to gate (factory completion prior to distribution).
- D. Embodied Carbon: Sum of all greenhouse gas emissions resulting from the construction lifecycle of a building. This includes emissions from material extraction and transportation, product development, transportation to the site and install, refurbishment (if applicable) and end of life through demolition and material disposal.
- E. LEED: USGBC's "LEED Version 4 for Building Design and Construction." Definitions that are part of this document apply to this Section.
- F. Life-Cycle Assessment: Evaluation of environmental impacts of a product from cradle to gate, defined by ISO 14040 and ISO 14044.
- G. Life-Cycle Inventory: Database that defines environmental input and output for each step in a material or assembly's life cycle.

- H. 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.
1. "Postconsumer" 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, which can no longer be used for its intended purpose.
  2. "Preconsumer" material is defined as material diverted from the waste stream during the manufacturing process. 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) is excluded.
- I. Regional Materials: Materials that have been extracted, harvested, or recovered, as well as manufactured, within 100 miles (160 km) of 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.
- J. Environmental Product Declaration (EPD): An independently verified report based on life-cycle assessment studies that have been conducted according to a set of common rules for each product category and peer-review.
1. Product-Specific Declaration: A product with a publicly available, critically reviewed life-cycle assessment conforming to ISO 14044 that has at least a cradle to gate scope.
  2. Industry-Wide (Generic) EPD: Provide products with third-party certification (Type III), including external verification, in which the manufacturer is explicitly recognized as a participant by the program operator. EPD must conform to ISO 14025, 14040, 14044, and EN 15804 or ISO 21930 and have at least a cradle to gate scope.
  3. Product-Specific Type III EPD: A product with a third-party certification, including external verification, in which the manufacturer is explicitly recognized by the program operator. EPD must conform to ISO 14025, 14040, 14044, and EN 15804 or ISO 21930 and have at least a cradle to gate scope.
- K. Solar Reflectance Index (SRI): The measure of a constructed surface's ability to stay cool in the sun by reflecting solar radiation and emitting thermal radiation. SRI values range from zero (solid black surface) to 100 (solid white surface). SRI value of a material is calculated according to ASTM E1980 and based on the aged tested values of solar reflectance and thermal emittance.
- L. Vertical Illuminance: Illuminance levels calculated at a point on a vertical service or plane.
- M. Health Product Declarations (HPD): A product with a publicly available, critically reviewed disclosure of the potential chemicals of concern in products by comparing product ingredients to a set of priority "hazard" lists based on the GreenScreen for Safer Chemicals and additional lists from other government agencies.

#### **1.4 QUALITY ASSURANCE**

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

#### **1.5 ACTION SUBMITTALS**

- A. General: Submit sustainable design submittals required by other Sections.

- B. Sustainable design submittals are in addition to other submittals.
1. If submitted item is identical to that proposed to comply with other requirements, include additional copy with other submittal as a record of compliance with indicated LEED requirements instead of separate sustainable design submittal. Mark additional copy "Sustainable design submittal".
- C. Sustainable Design Documentation Submittals:
1. Documentation for luminaires indicating BUG ratings, lumens emitted, and vertical illuminance values.
  2. Documentation for compliant paving materials indicating the SRI, SR, and permeability.
  3. Documentation for compliant roofing materials indicating the SRI.
  4. Product Data and certification for WaterSense-labeled water fixtures.
  5. Product Data for plumbing fixtures indicating flush or flow rate.
  6. Documentation complying with Division 1 Section "General Commissioning Requirements," Division 1 Section "Exterior Enclosure Commissioning," Division 21 Section "Commissioning of Fire Suppression," Division 22 Section "Commissioning of Plumbing," Division 23 Section "Commissioning of HVAC," and Division 26 Section "Commissioning of Electrical Systems".
  7. Environmental Product Declarations (EPDs) complying with LEED requirements.
    - a. EPDs for Embodied Carbon Tracking – Collect product-specific type III EPDs and provide a Bill of Materials, including project quantities itemized by application and type, and Global Warming Potential for Divisions 3-12 including, but not limited to:
      - 1) Concrete.
      - 2) Steel.
      - 3) Timber/Wood.
      - 4) Metal Framing.
      - 5) Glazing.
      - 6) Gypsum Board.
      - 7) Insulation.

Contractor shall be responsible for providing a Bill of Materials and Embodied Carbon Tracking sheet, including a comparative bid analysis among product selections.
  8. Documentation for products that comply with LEED requirements for multi-attribute optimization.
    - a. Include documentation for regional materials, indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material and costs of regional materials.
    - b. Include documentation for any applicable third-party certifications.
  9. Documentation for products that comply with LEED requirements for leadership extraction practices. Include the following:
    - a. Product Data and certification letter from product manufacturers, indicating participation in an extended producer responsibility program and statement of costs.
    - b. Product Data and certification for bio-based materials, indicating that they comply with requirements. Include statement of costs.
    - c. Product Data and chain-of-custody certificates for products containing certified wood. Include invoices.
    - d. Receipts for salvaged and refurbished materials used for Project, indicating sources and costs.
    - e. Product Data and certification letter from product manufacturers, indicating percentages by weight of postconsumer and preconsumer recycled content for products having recycled content. Include statement of costs.
    - f. Documentation for regional materials, indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material and costs of regional materials.

10. Material ingredient reports for products that comply with LEED requirements for material ingredient reporting.
11. Documentation for products that comply with LEED requirements for material ingredient optimization.
12. Documentation complying with Division 1 Section "Construction Waste Management and Disposal".
13. Product Data for adhesives and sealants used inside weatherproofing system, indicating VOC content and laboratory test reports showing compliance with requirements for low-emitting materials.
14. Product Data for paints and coatings used inside weatherproofing system, indicating VOC content and laboratory test reports showing compliance with requirements for low-emitting materials.
15. Laboratory test reports for flooring, indicating compliance with requirements for low-emitting materials.
16. Laboratory test reports for products containing composite wood or agrifiber products or wood glues, indicating compliance with requirements for low-emitting materials.
17. Laboratory test reports for ceilings, walls, and thermal insulation, indicating compliance with requirements for low-emitting materials.
18. Construction Indoor-Air-Quality (IAQ) Management:
  - a. Construction IAQ management plan.
  - b. Product Data for temporary filtration media.
  - c. Product Data for filtration media used during occupancy.
  - d. Construction Documentation: Six photographs at three different times during construction period, along with brief description of SMACNA approach employed, documenting implementation of IAQ management measures, including protection of ducts and on-site stored or installed absorptive materials.

## 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Sustainability Consultant.
- B. Project Materials Cost Data: Provide statement indicating total cost for materials used for Project. Costs exclude labor, overhead, and profit. Include breakout of costs for the following categories of items:
  1. Plumbing.
  2. Mechanical.
  3. Electrical.
  4. Specialty items such as elevators and equipment.
- C. Sustainable Design Action Plans: Provide preliminary submittals within 30 days of date established for the Notice to Proceed, indicating how the following requirements will be met:
  1. List of proposed products with EPDs. For Embodied Carbon tracking, list the proposed products with Product-Specific Type III EPDs and provide Bill of Materials.
  2. List of proposed products complying with requirements for multi-attribute optimization.
  3. List of proposed products complying with requirements for raw material and source extraction reporting.
  4. List of proposed products complying with requirements for material ingredient reporting.
  5. List of proposed products complying with requirements for leadership extraction practices.
  6. List of proposed products complying with requirements for material ingredient optimization.
  7. Waste management plan complying with Section 017419 "Construction Waste Management and Disposal."
  8. Construction IAQ management plan.
  9. List of proposed products complying with requirements for product manufacturer supply chain optimization.
- D. Sustainable Design Progress Reports: Concurrent with each Application for Payment, submit reports comparing actual construction and purchasing activities with sustainable design action plans.

**1.7 PREINSTALLATION MEETINGS**

- A. Preinstallation Conference: Conduct conference at Project site. Review LEED requirements and action plans for compliance with requirements.

**1.8 ADMINISTRATIVE REQUIREMENTS**

- A. Submit documentation to USGBC and respond to questions and requests from USGBC about its LEED prerequisites and credits that are Contractor's responsibility, that depend on product selection or product qualities, or that depend on Contractor's procedures, until USGBC has made its determination on Project's LEED certification application.
  - 1. Document correspondence with USGBC as informational submittals.

**PART 2 PRODUCTS****2.1 MATERIALS**

- A. Provide products and procedures necessary to obtain LEED credits indicated as Contractor's responsibility. Although other Sections may specify some requirements that contribute to these LEED credits, Contractor shall provide additional materials and procedures necessary to obtain LEED credits indicated.
- B. At least 10 different products from at least three different manufacturers shall have EPDs that comply with LEED requirements. Industrywide (generic) EPDs shall be valued as one-half of a product. Structural products shall comply with requirements for Embodied Carbon/LCA Optimization.
- C. At least 10 percent, by cost, OR 10 different products from three different manufacturers of permanently installed products for Project shall comply with LEED requirements for multi-attribute optimization.
- D. At least 40 percent, by cost, from at least five different manufacturers shall meet one of the responsible sourcing and extraction criteria.
- E. At least 10 different products from at least three different manufacturers shall comply with LEED requirements for material ingredient reporting.
- F. At least 10 percent, by cost, or 10 products from at least three different manufacturers of permanently installed products for Project shall comply with LEED requirements for material ingredient optimization.

**2.2 LOW-EMITTING MATERIALS**

- A. Paints and Coatings: For field applications that are inside the weatherproofing system, paints and coatings shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:
  - 1. Flat Paints and Coatings: 50 g/L.
  - 2. Nonflat Paints and Coatings: 50 g/L.
  - 3. Dry-Fog Coatings: 150 g/L.
  - 4. Primers, Sealers, and Undercoaters: 100 g/L.
  - 5. Rust-Preventive Coatings: 100 g/L.
  - 6. Zinc-Rich Industrial Maintenance Primers: 100 g/L.
  - 7. Pretreatment Wash Primers: 420 g/L.
  - 8. Clear Wood Finishes, Varnishes: 275 g/L.
  - 9. Clear Wood Finishes, Lacquers: 275 g/L.
  - 10. Floor Coatings: 50 g/L.

11. Shellacs, Clear: 730 g/L.
  12. Shellacs, Pigmented: 550 g/L.
  13. Stains: 100 g/L.
- B. Paints and Coatings: For field applications that are inside the weatherproofing system, 90 percent of paints and coatings shall comply with requirements of California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers".
- C. Adhesives and Sealants: For field applications that are inside the weatherproofing system, adhesives and sealants shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:
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 Adhesives: 80 g/L.
  16. Structural Glazing Adhesives: 100 g/L.
  17. Wood Flooring Adhesives: 100 g/L.
  18. Structural Wood Member Adhesives: 140 g/L.
  19. Single-Ply Roof Membrane Adhesives: 250 g/L.
  20. Special-Purpose Contact Adhesives (That Are Used to Bond Melamine-Covered Board, Metal, Unsupported Vinyl, Rubber, or Wood Veneer 1/16 Inch (1.6 mm) or Less in Thickness to Any Surface): 250 g/L.
  21. Top and Trim Adhesives: 250 g/L.
  22. Plastic Cement Welding Compounds: 250 g/L.
  23. ABS Welding Compounds: 325 g/L.
  24. CPVC Welding Compounds: 490 g/L.
  25. PVC Welding Compounds: 510 g/L.
  26. Adhesive Primer for Plastic: 550 g/L.
  27. Sheet-Applied Rubber Lining Adhesives: 850 g/L.
  28. Aerosol Adhesive, General-Purpose Mist Spray: 65 percent by weight.
  29. Aerosol Adhesive, General-Purpose Web Spray: 55 percent by weight.
  30. Special-Purpose Aerosol Adhesives (All Types): 70 percent by weight.
  31. Other Adhesives: 250 g/L.
  32. Architectural Sealants: 250 g/L.
  33. Non-membrane Roof Sealants: 300 g/L.
  34. Single-Ply Roof Membrane Sealants: 450 g/L.
  35. Other Sealants: 420 g/L.

- 36. Sealant Primers for Nonporous Substrates: 250 g/L.
  - 37. Sealant Primers for Porous Substrates: 775 g/L.
  - 38. Modified Bituminous Sealant Primers: 500 g/L.
  - 39. Other Sealant Primers: 750 g/L.
- D. Adhesives and Sealants: For field applications that are inside the weatherproofing system, 90 percent of adhesives and sealants shall comply with requirements of California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers".
  - E. Flooring: Shall comply with requirements of California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers".
  - F. Composite Wood, Agrifiber Products, and Adhesives: Shall be made using ultra-low-emitting formaldehyde resins as defined in California Air Resources Board's "Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products" or shall be made with no added formaldehyde.
  - G. Ceilings, Walls, and Thermal Insulation: Shall comply with requirements of California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers".
  - H. Roofing: Roofing materials shall have a three year aged solar reflectance index (SRI) of at least 64. If three year aged value information is not available, use materials with an initial SRI of at least 82 at installation
  - I. Hardscape: Paving materials shall have a three-year aged solar reflectance (SR) value of at least 0.28. If three-year aged value information is not available, use materials with an initial SR of at least 0.33 at installation

### **PART 3 EXECUTION**

#### **3.1 NONSMOKING BUILDING**

- A. Smoking is not permitted within the building or within 25 ft. (8 m) of entrances, operable windows, or outdoor-air intakes.

#### **3.2 CONSTRUCTION WASTE MANAGEMENT**

- A. Comply with Division 1 Section "Construction Waste Management and Disposal".

#### **3.3 CONSTRUCTION INDOOR-AIR-QUALITY (IAQ) MANAGEMENT**

- A. Comply with SMACNA's "SMACNA IAQ Guideline for Occupied Buildings under Construction".
  - 1. If Owner authorizes use of permanent heating, cooling, and ventilating systems during construction period as specified in Division 1 Section "Temporary Facilities and Controls," install MERV 8 filter media at each return-air inlet for the air-handling system used during construction.
  - 2. Replace air filters immediately prior to occupancy with new filters specified in Division 23 Section "Particulate Air Filtration".

### **END OF SECTION**

Block 250 LEED v4 for BD+C: Core & Shell Platinum

1500 Lamar St. Houston, TX 77010

Date: 5/24/2021



Y	M	M	N	
82	7	5	16	TOTALS 110

Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110

				Max Points
Y	M	M	N	Integrative Process 1
1	0		0	Credit 1 Integrative Process 1

Y	M	M	N	Location and Transportation 20
0	0	0	20	Credit 1 LEED for Neighborhood Development Location 20
2	0	0	0	Credit 2 Sensitive Land Protection 2
3	0	0	0	Credit 3 High Priority Site 3
6	0	0	0	Credit 4 Surrounding Density and Diverse Uses 6
6	0	0	0	Credit 5 Access to Quality Transit 6
0	0	0	1	Credit 6V4.1 Bicycle Facilities 1
1	0	0	0	Credit 7V4.1 Reduced Parking Footprint 1
1	0	0	0	Credit 8V4.1 Green Vehicles 1
19	0	0	1	

Y	M	M	N	Sustainable Sites 11
Y			0	Prereq 1 Construction Activity Pollution Prevention Y
1	0	0	0	Credit 1 Site Assessment 1
0	0	0	2	Credit 2V4.1 Site Development - Protect or Restore Habitat 2
0	0	0	1	Credit 3 Open Space 1
3	0	0	0	Credit 4V4.1 Rainwater Management 3
2	0	0	0	Credit 5 Heat Island Reduction 2
1	0	0	0	Credit 6 Light Pollution Reduction 1
1	0	0	0	Credit 7 Tenant Design and Construction Guidelines 1
8	0	0	3	

Y	M	M	N	Water Efficiency 11
Y			0	Prereq 1 Outdoor Water Use Reduction Y
Y			0	Prereq 2 Indoor Water Use Reduction Y
Y			0	Prereq 3 Building Level Water Metering Y
2	0	0	0	Credit 1 Outdoor Water Use Reduction 2
6	0	0	0	Credit 2 Indoor Water Use Reduction 6
1	0	0	1	Credit 3 Cooling Tower Water Use 2
1	0	0	0	Credit 4 Water Metering 1
10	0	0	1	

Y	M	M	N	Energy and Atmosphere 33
Y			0	Prereq 1 Fundamental Commissioning & Verification Y
Y			0	Prereq 2 Minimum Energy Performance Y
Y			0	Prereq 3 Building Level Energy Metering Y
Y			0	Prereq 4 Fundamental Refrigerant Management Y
6	0	0	0	Credit 1 Enhanced Commissioning 6
13	1	1	3	Credit 2 Optimize Energy Performance 18
1	0	0	0	Credit 3 Advanced Energy Metering 1
0	2	0	0	Credit 4 V4 Demand ResponseV4.1 Grid Harmonization 2
0	0	0	3	Credit 5 Renewable Energy Production 3
0	0	0	1	Credit 6 Enhanced Refrigerant Management 1
0	0	2	0	Credit 7 Green Power & Carbon Offsets 2
20	3	3	7	

				Max Points
Y	M	M	N	Materials and Resources 13
Y			0	Prereq 1 Storage and Collection of Recyclables Y
Y			0	Prereq 2 Construction & Demolition Waste Management Planning Y
1	1	1	3	Credit 1V4.1 Life-Cycle Impact Reduction 6
1	1	0	0	Credit 2V4.1 BPDO Environmental Product Declaration 2
0	0	1	1	Credit 3V4.1 BPDO Sourcing of Raw Materials 2
1	1	0	0	Credit 4V4.1 BPDO Material Ingredients 2
2	0	0	0	Credit 5 Construction & Demolition Waste Management 2
5	3	2	4	

Y	M	M	N	Indoor Environmental Quality 16
Y			0	Prereq 1 Minimum Indoor Air Quality Performance Y
Y			0	Prereq 2 Environmental Tobacco Smoke Control Y
2	0	0	0	Credit 1 Enhanced Indoor Air Quality Strategies 2
3	0	0	0	Credit 2V4.1 Low Emitting Materials 3
1	0	0	0	Credit 3 Construction Indoor Air Quality Management Plan 1
2	1	0	0	Credit 7V4.1 Daylight 3
1	0	0	0	Credit 8 Quality Views 1
9	1	0	0	

Y	M	M	N	Innovation 6
1	0	0	0	Credit 1.1 IN: O&M Starter Kit/Green Building Ed, Lamp Purchasing 1
1	0	0	0	Credit 1.2 Pilot: EC3 1
1	0	0	0	Credit 1.3 EP: Reduced Parking Footprint 1
1	0	0	0	Credit 1.4 EP: Heat Island Reduction or enhanced IAQ 1
1	0	0	0	Credit 1.5 Pilot: Safety First: Re-Enter Your Workspace 1
1	0	0	0	Credit 2 LEED Accredited Professional 1
6	0	0	0	

Y	M	M	N	Regional Priority 4
1	0	0	0	Credit 1.1 Energy Performance (10) 1
1	0	0	0	Credit 1.2 Rainwater Management (2) 1
1	0	0	0	Credit 1.3 Access to Quality Transit (3) 1
1	0	0	0	Credit 1.4 Outdoor Water Reuse Reduction (2)/ High Priority Site (2)/BPD 1
4	0	0	0	



## LEEDv4.1 LOW EMITTING MATERIALS Submittal Form

1. Complete 1 LEED EQ Submittal Form for ALL Divisions for **Interior** materials [from the weather barrier in]. Include Exterior materials only for Healthcare and Schools Projects.
2. Attach the required manufacturer's documentation to support VOC and General Emissions claims listed on this submittal form.
3. Note if material is inherently non-emitting: stone, ceramic, powder-coated metals, plated or anodized metal, glass, concrete, clay brick, unfinished or untreated solid wood flooring
4. Adhesives, Sealants, Paints, Coatings requirements for products wet applied on site.

• Project Name
• Subcontractor Name:
• Contact email:
• Specification Number:
• Scope of Work:
• Manufacturer:

<b>Adhesives</b> <i>All adhesives must meet General Emissions &amp; VOC requirements</i> Product Name: _____ 1. Select corresponding category on Table 1 2. Product VOC _____ g/L 3. Volume Used _____ Liters 4. Documentation shows this product meets SCAQMD Rule 1168? Yes <input type="checkbox"/> No <input type="checkbox"/> 5. Select General Emissions Compliance Certification 6. General Emissions documentation shows this product compliant with CDPH v1.2-2017? Yes <input type="checkbox"/> No <input type="checkbox"/> <input type="checkbox"/> 0.5 mg/m3 or less; <input type="checkbox"/> between 0.5 and 5.0 mg/m3; or <input type="checkbox"/> 5.0 mg/m3 or more.  Application: Interior <input type="checkbox"/> Exterior <input type="checkbox"/>	<b>Table 1:</b> <b>Interior Adhesives - must not exceed the following VOC limits</b> <table><tr><th><u>Architectural Applications</u></th><th><u>Specialty Applications</u></th></tr><tr><td><input type="checkbox"/> 50 g/L VOC Indoor carpet adhesives <input type="checkbox"/> 50 g/L VOC Indoor carpet adhesives <input type="checkbox"/> 50 g/L VOC Carpet pad adhesives <input type="checkbox"/> 150 g/L VOC Outdoor carpet adhesives <input type="checkbox"/> 100 g/L VOC Wood flooring adhesive <input type="checkbox"/> 60 g/L VOC Rubber floor adhesives <input type="checkbox"/> 50 g/L VOC Subfloor adhesives <input type="checkbox"/> 65 g/L VOC Ceramic tile adhesives <input type="checkbox"/> 50 g/L VOC VCT and asphalt tile adhesives <input type="checkbox"/> 50 g/L VOC Dry wall and panel adhesives <input type="checkbox"/> 50 g/L VOC Cove base adhesives <input type="checkbox"/> 70 g/L VOC Multipurpose construction adhesives <input type="checkbox"/> 100 g/L VOC Structural glazing adhesives <input type="checkbox"/> 250 g/L VOC Single ply roof membrane adhesives  <input type="checkbox"/> 30 g/L VOC Metal to metal substrate-specific adhesives <input type="checkbox"/> 50 g/L VOC Plastic foam substrate-specific adhesives <input type="checkbox"/> 50 g/L VOC Porous material (except wood) substrate-specific adhesives</td><td><input type="checkbox"/> 510 g/L VOC PVC welding <input type="checkbox"/> 510 g/L VOC PVC welding <input type="checkbox"/> 490 g/L VOC CPVC welding <input type="checkbox"/> 325 g/L VOC ABS welding <input type="checkbox"/> 250 g/L VOC Plastic cement welding <input type="checkbox"/> 550 g/L VOC Adhesive primer for plastic <input type="checkbox"/> 350 g/L VOC Computer diskette manufacturing <input type="checkbox"/> 80 g/L VOC Contact adhesive <input type="checkbox"/> 250 g/L VOC Special purpose contact adhesive <input type="checkbox"/> 100 g/L VOC Tire retread <input type="checkbox"/> 150 g/L VOC Adhesive primer for traffic marking tape <input type="checkbox"/> 140 g/L VOC Structural wood member adhesive <input type="checkbox"/> 850 g/L VOC Sheet applied rubber lining operations specialty <input type="checkbox"/> 250 g/L VOC Top and trim adhesive  <u>Substrate Specific Applications</u> <input type="checkbox"/> 30 g/L VOC Wood substrate-specific adhesives <input type="checkbox"/> 80 g/L VOC Fiberglass substrate-specific adhesives</td></tr></table> <b>General Emissions Compliance Certification</b> <input type="checkbox"/> FloorScore <input type="checkbox"/> Green Label Plus <input type="checkbox"/> SCS Indoor Advantage Gold-Building Materials <input type="checkbox"/> UL Greenguard Gold <input type="checkbox"/> Intertek Environmental VOC+ <input type="checkbox"/> Other	<u>Architectural Applications</u>	<u>Specialty Applications</u>	<input type="checkbox"/> 50 g/L VOC Indoor carpet adhesives <input type="checkbox"/> 50 g/L VOC Indoor carpet adhesives <input 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adhesives	<input type="checkbox"/> 510 g/L VOC PVC welding <input type="checkbox"/> 510 g/L VOC PVC welding <input type="checkbox"/> 490 g/L VOC CPVC welding <input type="checkbox"/> 325 g/L VOC ABS welding <input type="checkbox"/> 250 g/L VOC Plastic cement welding <input type="checkbox"/> 550 g/L VOC Adhesive primer for plastic <input type="checkbox"/> 350 g/L VOC Computer diskette manufacturing <input type="checkbox"/> 80 g/L VOC Contact adhesive <input type="checkbox"/> 250 g/L VOC Special purpose contact adhesive <input type="checkbox"/> 100 g/L VOC Tire retread <input type="checkbox"/> 150 g/L VOC Adhesive primer for traffic marking tape <input type="checkbox"/> 140 g/L VOC Structural wood member adhesive <input type="checkbox"/> 850 g/L VOC Sheet applied rubber lining operations specialty <input type="checkbox"/> 250 g/L VOC Top and trim adhesive  <u>Substrate Specific Applications</u> <input type="checkbox"/> 30 g/L VOC Wood substrate-specific adhesives <input type="checkbox"/> 80 g/L VOC Fiberglass substrate-specific adhesives
<u>Architectural Applications</u>	<u>Specialty Applications</u>				
<input type="checkbox"/> 50 g/L VOC Indoor carpet adhesives <input type="checkbox"/> 50 g/L VOC Indoor carpet adhesives <input type="checkbox"/> 50 g/L VOC Carpet pad adhesives <input type="checkbox"/> 150 g/L VOC Outdoor carpet adhesives <input type="checkbox"/> 100 g/L VOC Wood flooring adhesive <input type="checkbox"/> 60 g/L VOC Rubber floor adhesives <input type="checkbox"/> 50 g/L VOC Subfloor adhesives <input type="checkbox"/> 65 g/L VOC Ceramic tile adhesives <input type="checkbox"/> 50 g/L VOC VCT and asphalt tile adhesives <input type="checkbox"/> 50 g/L VOC Dry wall and panel adhesives <input type="checkbox"/> 50 g/L VOC Cove base adhesives <input type="checkbox"/> 70 g/L VOC Multipurpose construction adhesives <input type="checkbox"/> 100 g/L VOC Structural glazing adhesives <input type="checkbox"/> 250 g/L VOC Single ply roof membrane adhesives  <input type="checkbox"/> 30 g/L VOC Metal to metal substrate-specific adhesives <input type="checkbox"/> 50 g/L VOC Plastic foam substrate-specific adhesives <input type="checkbox"/> 50 g/L VOC Porous material (except wood) substrate-specific adhesives	<input type="checkbox"/> 510 g/L VOC PVC welding <input type="checkbox"/> 510 g/L VOC PVC welding <input type="checkbox"/> 490 g/L VOC CPVC welding <input type="checkbox"/> 325 g/L VOC ABS welding <input type="checkbox"/> 250 g/L VOC Plastic cement welding <input type="checkbox"/> 550 g/L VOC Adhesive primer for plastic <input type="checkbox"/> 350 g/L VOC Computer diskette manufacturing <input type="checkbox"/> 80 g/L VOC Contact adhesive <input type="checkbox"/> 250 g/L VOC Special purpose contact adhesive <input type="checkbox"/> 100 g/L VOC Tire retread <input type="checkbox"/> 150 g/L VOC Adhesive primer for traffic marking tape <input type="checkbox"/> 140 g/L VOC Structural wood member adhesive <input type="checkbox"/> 850 g/L VOC Sheet applied rubber lining operations specialty <input type="checkbox"/> 250 g/L VOC Top and trim adhesive  <u>Substrate Specific Applications</u> <input type="checkbox"/> 30 g/L VOC Wood substrate-specific adhesives <input type="checkbox"/> 80 g/L VOC Fiberglass substrate-specific adhesives				
<b>Sealants</b> <i>All sealants must meet General Emissions &amp; VOC requirements</i> Product Name: _____ 1. Select corresponding category on Table 2 2. Product VOC _____ g/L 3. Volume Used _____ Liters 4. Documentation shows this product meets SCAQMD Rule 1168? Yes <input type="checkbox"/> No <input type="checkbox"/> 5. Select General Emissions Compliance Certification 6. General Emissions documentation shows this product compliant with CDPH v1.2-2017? Yes <input type="checkbox"/> No <input type="checkbox"/> <input type="checkbox"/> 0.5 mg/m3 or less; <input type="checkbox"/> between 0.5 and 5.0 mg/m3; or <input type="checkbox"/> 5.0 mg/m3 or more.  Application: Interior <input type="checkbox"/> Exterior <input type="checkbox"/>	<b>Table 2:</b> <b>Interior Sealants - must not exceed the following VOC limits</b> <table><tr><th><u>Sealants</u></th><th><u>Sealant Primers</u></th></tr><tr><td><input type="checkbox"/> 250 g/L VOC Architectural sealant <input type="checkbox"/> 760 g/L VOC Marine deck sealant <input type="checkbox"/> 300 g/L VOC Nonmembrane roof sealant <input type="checkbox"/> 250 g/L VOC Roadway sealant <input type="checkbox"/> 450 g/L VOC Single-ply roof membrane sealant <input type="checkbox"/> 420 g/L VOC Other sealant  <u>Other</u> <input type="checkbox"/> 250 g/L VOC Other adhesives, adhesive bonding primers, adhesive primers, or any other primers</td><td><input type="checkbox"/> 250 g/L VOC Architectural non-porous sealant primer <input type="checkbox"/> 775 g/L VOC Architectural porous sealant primer <input type="checkbox"/> 500 g/L VOC Modified bituminous sealant primer <input type="checkbox"/> 760 g/L VOC Marine deck sealant primer <input type="checkbox"/> 750 g/L VOC Other sealant primer</td></tr></table> <b>General Emissions Compliance Certification</b> <input type="checkbox"/> UL Greenguard Gold <input type="checkbox"/> SCS Indoor Advantage Gold-Building Materials <input type="checkbox"/> Intertek Environmental VOC+ <input type="checkbox"/> Other	<u>Sealants</u>	<u>Sealant Primers</u>	<input type="checkbox"/> 250 g/L VOC Architectural sealant <input type="checkbox"/> 760 g/L VOC Marine deck sealant <input type="checkbox"/> 300 g/L VOC Nonmembrane roof sealant <input type="checkbox"/> 250 g/L VOC Roadway sealant <input type="checkbox"/> 450 g/L VOC Single-ply roof membrane sealant <input type="checkbox"/> 420 g/L VOC Other sealant  <u>Other</u> <input type="checkbox"/> 250 g/L VOC Other adhesives, adhesive bonding primers, adhesive primers, or any other primers	<input type="checkbox"/> 250 g/L VOC Architectural non-porous sealant primer <input type="checkbox"/> 775 g/L VOC Architectural porous sealant primer <input type="checkbox"/> 500 g/L VOC Modified bituminous sealant primer <input type="checkbox"/> 760 g/L VOC Marine deck sealant primer <input type="checkbox"/> 750 g/L VOC Other sealant primer
<u>Sealants</u>	<u>Sealant Primers</u>				
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Paints and Coatings		Table 3:	
All paints & coatings must meet General Emissions & VOC requirements		Interior Paints and Coatings - must not exceed the following VOC limits	
Product Name: _____ 1. Select corresponding category on Table 3 2. Product VOC g/L 3. Volume Used Liters 4. Documentation shows this product meets CARB 2007 SCM or SCAQMD Rule 1113 2016? Yes <input type="checkbox"/> No <input type="checkbox"/> 5. Select General Emissions Compliance Certification 6. General Emissions documentation shows this product compliant with CDPH v1.2-2017? Yes <input type="checkbox"/> No <input type="checkbox"/> <input type="checkbox"/> 0.5 mg/m3 or less; <input type="checkbox"/> between 0.5 and 5.0 mg/m3; or <input type="checkbox"/> 5.0 mg/m3 or more.		<input type="checkbox"/> 350 g/L VOC Bond breakers <input type="checkbox"/> 275 g/L VOC Clear wood finishes - Varnish <input type="checkbox"/> 275 g/L VOC Clear wood finishes - Sanding sealers <input type="checkbox"/> 275 g/L VOC Clear wood finishes - Lacquer <input type="checkbox"/> 50 g/L VOC Colorant - Architectural coatings, excluding IM coatings <input type="checkbox"/> 600 g/L VOC Colorant - Solvent-based IM <input type="checkbox"/> 50 g/L VOC Colorant - Waterborne IM <input type="checkbox"/> 100 g/L VOC Concrete - Curing compounds <input type="checkbox"/> 350 g/L VOC Concrete - Curing compounds for roadways and bridges <input type="checkbox"/> 50 g/L VOC Concrete surface retarder <input type="checkbox"/> 50 g/L VOC Driveway sealer <input type="checkbox"/> 50 g/L VOC Dry-fog coatings <input type="checkbox"/> 100 g/L VOC Faux finishing coatings - Clear topcoat <input type="checkbox"/> 350 g/L VOC Faux finishing coatings - Decorative coatings <input type="checkbox"/> 350 g/L VOC Faux finishing coatings - Glazes <input type="checkbox"/> 350 g/L VOC Faux finishing coatings - Japan <input type="checkbox"/> 50 g/L VOC Faux finishing coatings - Trowel applied coatings <input type="checkbox"/> 150 g/L VOC Fire-proofing coatings <input type="checkbox"/> 50 g/L VOC Flats <input type="checkbox"/> 50 g/L VOC Floor coatings <input type="checkbox"/> 100 g/L VOC Form release compound <input type="checkbox"/> 150 g/L VOC Graphic arts (sign) coatings <input type="checkbox"/> 100 g/L VOC Industrial maintenance coatings <input type="checkbox"/> 420 g/L VOC Industrial maintenance coatings - High temperature IM coatings <input type="checkbox"/> 100 g/L VOC Industrial maint. coatings - Non-sacrificial anti-graffiti coatings <input type="checkbox"/> 100 g/L VOC Industrial maintenance coatings - Zinc-rich IM primers <input type="checkbox"/> 450 g/L VOC Magnesite cement coatings <input type="checkbox"/> 100 g/L VOC Mastic coatings <input type="checkbox"/> 150 g/L VOC Metallic pigmented coatings <input type="checkbox"/> 250 g/L VOC Multi-Color coatings <input type="checkbox"/> 50 g/L VOC Nonflat coatings <input type="checkbox"/> 420 g/L VOC Pre-treatment wash primers <input type="checkbox"/> 100 g/L VOC Primers, sealers, and undercoaters <input type="checkbox"/> 350 g/L VOC Reactive penetrating sealers <input type="checkbox"/> 250 g/L VOC Recycled coatings <input type="checkbox"/> 50 g/L VOC Roof coatings <input type="checkbox"/> 100 g/L VOC Roof coatings, aluminum <input type="checkbox"/> 350 g/L VOC Roof primers, bituminous <input type="checkbox"/> 100 g/L VOC Rust preventative coatings <input type="checkbox"/> 450 g/L VOC Stone consolidant <input type="checkbox"/> 50 g/L VOC Sacrificial anti-graffiti coatings <input type="checkbox"/> 730 g/L VOC Shellac - Clear <input type="checkbox"/> 550 g/L VOC Shellac - Pigmented <input type="checkbox"/> 100 g/L VOC Specialty primers <input type="checkbox"/> 100 g/L VOC Stains <input type="checkbox"/> 250 g/L VOC Stains, interior <input type="checkbox"/> 340 g/L VOC Swimming pool coatings - Repair <input type="checkbox"/> 340 g/L VOC Swimming pool coatings - Other <input type="checkbox"/> 100 g/L VOC Traffic coatings <input type="checkbox"/> 100 g/L VOC Waterproofing sealers <input type="checkbox"/> 100 g/L VOC Waterproofing concrete/masonry sealers <input type="checkbox"/> 350 g/L VOC Wood preservatives <input type="checkbox"/> 120 g/L VOC Low solids coatings	
		General Emissions Compliance Certification	
Application: Interior <input type="checkbox"/> Exterior <input type="checkbox"/>		<input type="checkbox"/> UL Greenguard Gold <input type="checkbox"/> SCS Indoor Advantage Gold-Building Materials <input type="checkbox"/> Intertek Environmental VOC+ <input type="checkbox"/> Other	

<b>Flooring Systems</b> -carpet, tile, resilient, engineered, LVT, wall base, rubber, solid wood, underlayments 1. Product Cost _____ 2. Product Surface Area _____ 3. Enter Product Name in Table 4 4. Select Compliance Certification 5. General Emissions Documentation shows this product compliant with CDPH v1.2-2017? Yes <input type="checkbox"/> No <input type="checkbox"/> <input type="checkbox"/> 0.5 mg/m3 or less; <input type="checkbox"/> between 0.5 and 5.0 mg/m3; or <input type="checkbox"/> 5.0 mg/m3 or more.	Table 4: <b>Flooring</b> <table border="1"> <thead> <tr> <th>Product Name/Model/Description</th> <th>Compliance Certification</th> </tr> </thead> <tbody> <tr><td>_____</td><td><input type="checkbox"/> FloorScore [hard surface flooring]</td></tr> <tr><td>_____</td><td><input type="checkbox"/> NSF/ANSI 332 [resilient flooring]</td></tr> <tr><td>_____</td><td><input type="checkbox"/> SCS Indoor Advantage Gold - Building Materials</td></tr> <tr><td>_____</td><td><input type="checkbox"/> UL Greenguard Gold</td></tr> <tr><td>_____</td><td><input type="checkbox"/> Intertek Environmental VOC+</td></tr> <tr><td>_____</td><td><input type="checkbox"/> Other</td></tr> <tr><td>_____</td><td><input type="checkbox"/> Inherently non-emitting</td></tr> </tbody> </table>	Product Name/Model/Description	Compliance Certification	_____	<input type="checkbox"/> FloorScore [hard surface flooring]	_____	<input type="checkbox"/> NSF/ANSI 332 [resilient flooring]	_____	<input type="checkbox"/> SCS Indoor Advantage Gold - Building Materials	_____	<input type="checkbox"/> UL Greenguard Gold	_____	<input type="checkbox"/> Intertek Environmental VOC+	_____	<input type="checkbox"/> Other	_____	<input type="checkbox"/> Inherently non-emitting								
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<b>Composite Wood</b> particleboard, MDF, veneer 1. Product Cost _____ 2. Product Surface Area _____ 3. Enter Product Name in Table 5 4. Select Compliance Certification in Table 5	Table 5: <b>Composite Wood</b> <table border="1"> <thead> <tr> <th>Product Name/Description</th> <th>Compliance Certification</th> </tr> </thead> <tbody> <tr><td>_____</td><td><input type="checkbox"/> CARB ATCM ULEF</td></tr> <tr><td>_____</td><td><input type="checkbox"/> CARB ATCM NAF</td></tr> <tr><td>_____</td><td><input type="checkbox"/> Salvaged or Reused</td></tr> </tbody> </table>	Product Name/Description	Compliance Certification	_____	<input type="checkbox"/> CARB ATCM ULEF	_____	<input type="checkbox"/> CARB ATCM NAF	_____	<input type="checkbox"/> Salvaged or Reused																
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<b>Ceilings, Walls, Insulation</b> 1. Product Cost _____ 2. Product Surface Area _____ 3. Enter the Component in Table 6 4. General Emissions Documentation shows this product compliant with CDPH v1.1-2017? Yes <input type="checkbox"/> No <input type="checkbox"/> <input type="checkbox"/> 0.5 mg/m3 or less; <input type="checkbox"/> between 0.5 and 5.0 mg/m3; or <input type="checkbox"/> 5.0 mg/m3 or more.	Table 6: <b>Ceilings, Walls, Insulation</b> <table border="1"> <thead> <tr> <th>Product Name/Description</th> <th>Compliance Certification</th> </tr> </thead> <tbody> <tr><td>_____</td><td><input type="checkbox"/> FloorScore [hard surface flooring]</td></tr> <tr><td>_____</td><td><input type="checkbox"/> NSF/ANSI 332 [resilient flooring]</td></tr> <tr><td>_____</td><td><input type="checkbox"/> SCS Indoor Advantage Gold - Building Materials</td></tr> <tr><td>_____</td><td><input type="checkbox"/> UL Greenguard Gold</td></tr> <tr><td>_____</td><td><input type="checkbox"/> Intertek Environmental VOC+</td></tr> <tr><td>_____</td><td><input type="checkbox"/> Other</td></tr> </tbody> </table>	Product Name/Description	Compliance Certification	_____	<input type="checkbox"/> FloorScore [hard surface flooring]	_____	<input type="checkbox"/> NSF/ANSI 332 [resilient flooring]	_____	<input type="checkbox"/> SCS Indoor Advantage Gold - Building Materials	_____	<input type="checkbox"/> UL Greenguard Gold	_____	<input type="checkbox"/> Intertek Environmental VOC+	_____	<input type="checkbox"/> Other										
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<b>Systems Furniture &amp; Seating</b> 1. Product Cost _____ 2. Enter Product Name in Table 7 3. Select Compliance Certification in Table 7 4. Select Compliance Method <input type="checkbox"/> ANSI/BFMA e3-2014e Section 7.6.1=50% <input type="checkbox"/> ANSI/BFMA e3-2014e1 Section 7.6.2 = 100% <input type="checkbox"/> CDPH Standard v1.1 (Classroom Furniture Only) <input type="checkbox"/> Salvaged or Reused	Table 7: <b>Furniture</b> <table border="1"> <thead> <tr> <th>Product Name/Description</th> <th>Cost</th> <th>Compliance Certification</th> </tr> </thead> <tbody> <tr><td>_____</td><td></td><td><input type="checkbox"/> UL Greenguard Gold</td></tr> <tr><td>_____</td><td></td><td><input type="checkbox"/> SCS Indoor Advantage Gold-Furniture</td></tr> <tr><td>_____</td><td></td><td><input type="checkbox"/> Intertek ETL Environmental VOC+</td></tr> <tr><td>_____</td><td></td><td><input type="checkbox"/> MAS Certified Green</td></tr> <tr><td>_____</td><td></td><td><input type="checkbox"/> Intertek ETL Environmental VOC <i>contributes @50%</i></td></tr> <tr><td>_____</td><td></td><td><input type="checkbox"/> SCS Indoor Advantage -Furniture <i>contributes @50%</i></td></tr> <tr><td>_____</td><td></td><td><input type="checkbox"/> UL Greenguard Certified <i>contributes @50%</i></td></tr> </tbody> </table>	Product Name/Description	Cost	Compliance Certification	_____		<input type="checkbox"/> UL Greenguard Gold	_____		<input type="checkbox"/> SCS Indoor Advantage Gold-Furniture	_____		<input type="checkbox"/> Intertek ETL Environmental VOC+	_____		<input type="checkbox"/> MAS Certified Green	_____		<input type="checkbox"/> Intertek ETL Environmental VOC <i>contributes @50%</i>	_____		<input type="checkbox"/> SCS Indoor Advantage -Furniture <i>contributes @50%</i>	_____		<input type="checkbox"/> UL Greenguard Certified <i>contributes @50%</i>
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**NOTES**

**WALLS** = Generally vertical structural elements, All finish wall treatments, Interior columns, Exterior and interior wall glazing, Doors, Partial-height vertical surfaces (e.g., transoms, bulkheads, pony walls, knee walls, and similar structures normally Constructed and finished on-site), Architectural woodwork applied to walls, Built-in cabinetry, Floor-to-ceiling moveable demountable wall systems and partitions, cabinets/furniture built on site

**CEILINGS** = Overhead structural elements (exposed, finished, unfinished), Direct-applied ceiling systems, Suspended systems, Glazed skylights. Examples include painted drywall and plaster, acoustical suspension systems, specialty systems (plastic, metal, wood), and painted or otherwise finished structural elements

**INSULATION** = Thermal & Acoustic batt, loose fill, spray. Does not include HVAC insulation.

**FURNITURE** = Examples: individual and group seating; open-plan and private office workstations; desks and tables of all types; storage units, credenzas, bookshelves, filing cabinets, and other case goods; wall-mounted, visual display products (e.g., markerboards and tackboards, excluding electronic display products); and miscellaneous items (e.g., easels, mobile carts, freestanding screens, and movable partitions)



## V4.1 LEED MR Submittal Form Building Product Disclosure & Optimization

### Project:

Subcontractor \_\_\_\_\_  
 Contact email \_\_\_\_\_  
 Specification # \_\_\_\_\_  
 Scope of work \_\_\_\_\_

Product Description \_\_\_\_\_  
 Product Name \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Product Cost \$ \_\_\_\_\_

1. Complete 1 form for each product [applicable specification section typically CSI 2012 MasterFormat Divisions 3-10, 31, and 32]
2. Attach product specific documentation with criteria highlighted.
3. List total [not unit] material cost including all costs to deliver to the site. Exclude cost of equipment and labor to install.

### MRc Environmental Product Declarations

Criteria	Material	Review	Standards	Documentation Attached
LCA	Product Specific	Publicly available, Critically reviewed	ISO 14044	<input type="checkbox"/> yes
Type III EPD	Industry Wide	External Verification	ISO 14025, EN15804 or ISO 21930, Specific Manufacturer	<input type="checkbox"/> yes
Type III EPD	Product Specific	Internally reviewed	ISO 14071 cradle to gate, ISO 14025, EN15804 or ISO 21930	<input type="checkbox"/> yes
Type III EPD *	Product Specific	3rd party external verification	ISO 14025, EN15804 or ISO 21930, Specific Manufacturer	<input type="checkbox"/> yes

\*Product specific Type III EPDs with **3rd party external** verification for specific manufacturer valued at 1.5 product.

### MRc Sourcing of Raw Materials

Criteria	Documentation Requirement	Complete this section	Documentation Attached	100 mi of jobsite?
Recycled Content	% post consumer = % pre consumer =		<input type="checkbox"/> yes <input type="checkbox"/> yes	<input type="checkbox"/> yes <input type="checkbox"/> yes
FSC	Invoice with FSC COC on a line item basis & delivery to job site, COC certificate		<input type="checkbox"/> yes	<input type="checkbox"/> yes
Extended Producer Responsibility	Take Back or Closed Loop Program		<input type="checkbox"/> yes	<input type="checkbox"/> yes
Bio Based	% content by weight =		<input type="checkbox"/> yes	<input type="checkbox"/> yes
Reuse			<input type="checkbox"/> yes	<input type="checkbox"/> yes

Only include local/regional backup if manufactured & extracted & purchased within 100 miles of site.

Manufacturing refers to the assembly as a finished product. Assembly does not include on-site assembly, or installation.

Harvesting refers to the location where raw material is recovered or extracted.

### MRc4 Material Ingredients

Criteria	Requirement	Documentation Attached
Health Product Declaration	HPD Open Standard	<input type="checkbox"/> yes
Cradle to Cradle	Bronze level	<input type="checkbox"/> yes
Declare	Red List Free/Declared LBC to 0.1% inventory	<input type="checkbox"/> yes
Manufacturer Inventory	CASRN # Greenscreen List	<input type="checkbox"/> yes