


Concrete's
Contribution
to LEED v5

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CONCRETENEXUS

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Learning Objectives

- ▶ Explain the credit categories in LEED v5 related to decarbonization, resilience, equity, and responsible sourcing of concrete.
- ▶ Understand how concrete can support design strategies to reduce life cycle impacts.
- ▶ Evaluate concrete product documentation for demonstrating reduced carbon impacts.
- ▶ Identify concrete product documentation for demonstrating responsible sourcing.

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Why this Topic Matters

- Concrete provides resilience, energy efficiency, water conservation, reduced embodied carbon and healthy environments.
- Creates competitive advantage for producers who offer transparent, responsibly sourced, and innovative concrete solutions.
- Drives demand for low-carbon mixes by rewarding EPDs, optimized designs, and embodied carbon reductions.
- Influences public and private procurement, making LEED-aligned concrete essential for winning modern building projects.

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LEED v5 Credit Categories

- 1 Integrative Process, Planning and Assessment (IP)
- 2 Location and Transportation (LT)
- 3 Sustainable Sites (SS)
- 4 Water Efficiency (WE)
- 5 Energy and Atmosphere (EA)
- 6 Materials and Resources (MR)
- 7 Indoor Environmental Quality (EQ)
- 8 Project Priorities (PR)

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Two ways Concrete can Contribute



Designer decisions

- Cost Effective
- Resilient
- Energy Efficient
- Durable
- Comfortable



Producer actions

- Innovative products
- Low-carbon concrete
- Environmental Product Declarations
- Responsibly Sourcing Certification

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		New Construction	Core and Shell
	Integrative Process, Planning and Assessments (IP)	1	7
	IPp1 Climate Resilience Assessment	Required	Required
	IPp2 Human Impact Assessment	Required	Required
	IPp3 Carbon Assessment	Required	Required
	IPp4 Tenant Guidelines	-	Required
	IPc1 Integrative Design Process	1	1
IPc2 Green Leases	-	6	


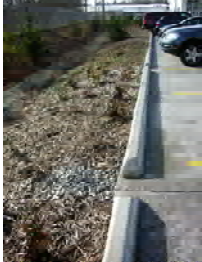
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Location and Transportation (LT)		15	15
LTc1	Sensitive Land Protection	1	1
LTc2	Equitable Development	2	2
LTc3	Compact and Connected Development	6	6
LTc4	Transportation Demand Management	4	4
LTc5	Electric Vehicles	2	2





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Sustainable Sites (SS)		11	11
SSp1	Minimized Site Disturbance	Required	Required
SSc1	Biodiverse Habitat	2	2
SSc2	Accessible Outdoor Space	1	1
SSc3	Rainwater Management	3	3
SSc4	Enhanced Resilient Site Design	2	2
SSc5	Heat Island Reduction	2	2
SSc6	Light Pollution Reduction	1	1


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Water Efficiency (WE)		9	8
WEp1	Water Metering and Reporting	Required	Required
WEp2	Minimum Water Efficiency	Required	Required
WEc1	Water Metering and Leak Detection	1	1
WEc2	Enhanced Water Efficiency	8	7

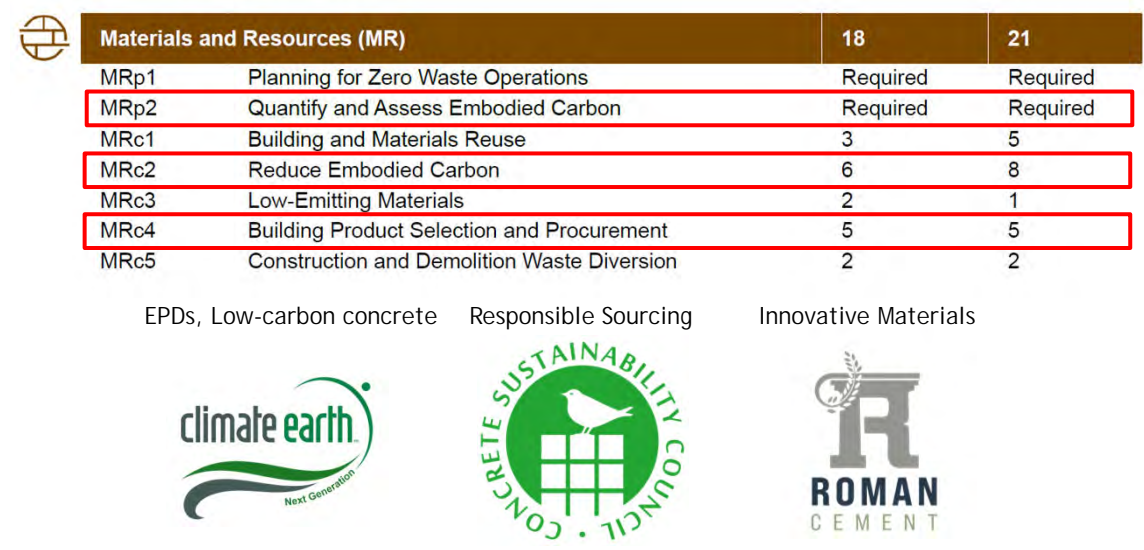


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Energy and Atmosphere (EA)		33	27
EAp1	Operational Carbon Projection and Decarbonization Plan	Required	Required
EAp2	Minimum Energy Efficiency	Required	Required
EAp3	Fundamental Commissioning	Required	Required
EAp4	Energy Metering and Reporting	Required	Required
EAp5	Fundamental Refrigerant Management	Required	Required
EAc1	Electrification	5	4
EAc2	Reduce Peak Thermal Loads	5	5
EAc3	Enhanced Energy Efficiency	10	7
EAc4	Renewable Energy	5	4
EAc5	Enhanced Commissioning		
EAc6	Grid Interactive		
EAc7	Enhanced Refrigerant Management		






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Materials and Resources (MR)

		18	21
MRp1	Planning for Zero Waste Operations	Required	Required
MRp2	Quantify and Assess Embodied Carbon	Required	Required
MRc1	Building and Materials Reuse	3	5
MRc2	Reduce Embodied Carbon	6	8
MRc3	Low-Emitting Materials	2	1
MRc4	Building Product Selection and Procurement	5	5
MRc5	Construction and Demolition Waste Diversion	2	2

EPDs, Low-carbon concrete Responsible Sourcing Innovative Materials

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Indoor Environmental Quality (EQ)


		13	11
EQp1	Construction Management	Required	Required
EQp2	Fundamental Air Quality	Required	Required
EQp3	No Smoking or Vehicle Idling	Required	Required
EQc1	Enhanced Air Quality	1	1
EQc2	Occupant Experience	7	7
EQc3	Accessibility and Inclusion	1	1
EQc4	Resilient Spaces	2	2
EQc5	Air Quality Testing and Monitoring	2	-




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	Project Priorities (PR)	10	10
PRc1	Project Priorities	9	9
PRc2	LEED AP	1	1
Total	Possible Points	110	110


EPDs, Low-carbon concrete



Responsible Sourcing



Innovative Materials



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MATERIALS AND RESOURCES



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QUANTIFY AND ASSESS EMBODIED CARBON

- ▶ **MRp2**
- ▶ **REQUIRED**
- ▶ **INTENT:** Quantify embodied carbon impacts of the structure, enclosure, and hardscape and assess the top sources.
- ▶ **REQUIREMENTS:**
 - ▶ Report quantifying embodied carbon of the structure, enclosure and hardscape AND
 - ▶ Identify the top three sources and strategies considered to reduce impacts.

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How does concrete contribute?

- ▶ Concrete is often in the top 3 sources
- ▶ Concrete low-carbon mixes can support strategy
- ▶ EPDs are mostly available for concrete
- ▶ WBLCA software includes concrete LCA data

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REDUCED EMBODED CARBON

- ▶ **MRc2**
- ▶ **POINTS:** 1-6 (20% reduction for LEED Platinum)
- ▶ **INTENT:** Track and reduce embodied carbon of major structural, enclosure, and hardscape materials.
- ▶ **REQUIREMENTS:**
 - ▶ **Option 1:** Whole-Building Life Cycle Assessment **AND/OR**
 - ▶ **Option 2:** Environmental Product Declarations (EPD) Analysis **AND/OR**
 - ▶ **Option 3:** Track Carbon Emissions from Construction Activities

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Table 1. Points for Embodied Carbon Reductions in Options 1 and 2 for New Construction Projects

	Option 1. Whole-building Life-cycle Assessment	AND/OR	Option 2. EPD Analysis		
			Path 1. Project-Average Approach	OR	Path 2. Materials-type Approach
Meet baseline or industry average	2		1		Three material categories for 1 point OR Five or more material categories for 2 points
10% reduction in GWP	3		–		–
20% reduction in GWP	4		2		–
30% reduction in GWP	5		–		–
40%+ reduction in GWP	6		3		–

NOTE: Meeting the baseline or industry average in Table 1 can achieve no more than 2 points.

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How does concrete contribute?

- ▶ Concrete is often targeted for embodied carbon reduction
- ▶ Low-carbon concrete mixes can support strategy
- ▶ EPDs are available for concrete
- ▶ WBLCA software includes concrete LCA data

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Option 1: Whole-Building Life Cycle Assessment

- ▶ Conduct a cradle-to-grave WBLCA (modules A-C, excluding operating energy and operating water-related energy). Compare results to a baseline developed for the project.
- ▶ Include results for:
 - ▶ **GWP**
 - ▶ Stratospheric ozone
 - ▶ Acidification of land and water
 - ▶ Eutrophication
 - ▶ Tropospheric ozone
 - ▶ Depletion of nonrenewable energy

GWP Reduction	Points
Meets baseline	2
10%	3
20%	4
30%	5
40%	6

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Option 2: EPD Analysis Path 1: Project Average Approach

- ▶ Reduce embodied carbon of the project based on EPD data compared to industry average values.
- ▶ Industry averages for material categories are defined by:
 - ▶ U.S. EPA
 - ▶ CLF Material Baselines report
 - ▶ Industry-wide EPDs (regional)

GWP Reduction	Points
Meets baseline	1
10%	-
20%	2
30%	-
40%	3

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Option 2: EPD Analysis Path 2: Material-Type Approach

- ▶ Demonstrating materials have lower embodied carbon impacts than industry benchmarks as demonstrated by product-specific Type III EPDs.

GWP Reduction	Points
Meets baseline 3 materials	1
Meets baseline 5 materials	2
10%	-
20%	-
30%	-
40%	-

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Example: WBLCA and Project Average Approach

WBLCA

GWP Reduction	Points
Meets baseline	2
10%	3
20%	4
30%	5
40%	6

+

EPD Analysis: Project Average Approach

GWP Reduction	Points
Meets baseline	1
10%	-
20%	2
30%	-
40%	3

TOTAL = 3 + 1 = 4 (up to a maximum of 6 points)

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Example: Material Type Approach

Member	Est. Volume, yd ³	Benchmark GWP, per yd ³	Benchmark Total GWP	Target GWP, per yd ³	Target Total GWP	Reduction %
Foundation	4,000	289	1,156,000	210	840,000	27%
Slabs	5,000	306	1,530,000	260	1,300,000	15%
Columns and Walls	1,000	349	349,000	275	275,000	21%
Total	10,000	304	3,035,000	242	2,415,000	20%

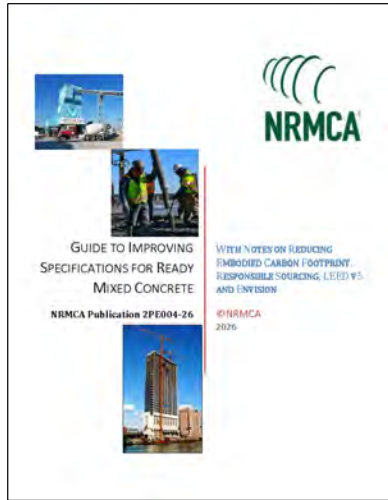
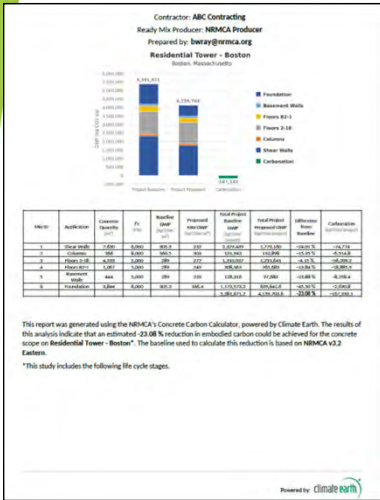
Material	Comparison to baseline
Concrete	20% below baseline
Steel	Meets baseline
Glass	Meets baseline

3 materials meet baseline = 1 Point



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Tools: www.nrmca.org/sustainability



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PROCUREMENT OF INNOVATIVE LOW-EMBODIED CARBON CONCRETE

- ▶ **Project Priority Credit**
- ▶ **MRpc182 | Possible 1 Point**
- ▶ **Intent:** Incentivize the use of pilot-ready, next-generation, lower-carbon concrete products
- ▶ **Requirements:**
 - ▶ Completed survey
 - ▶ Case study or link to public case study
 - ▶ List of material(s) used to determine compliance with quantities, source, manufacturer, and product names.
 - ▶ Include EPD(s) or other evidence of the embodied carbon

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ELIGIBILITY

- ▶ Structural: must represent at least 15 cy on a project.
- ▶ Nonstructural: must represent at least 30 cy on a project.



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BUILDING PRODUCT SELECTION AND PROCUREMENT

- ▶ **MRc4**
- ▶ **POINTS:** New Construction (1-5 points); Core and Shell (1-5 points)
- ▶ **INTENT:** Promote and reward procurement of transparently documented, optimized sustainable building products.
- ▶ **REQUIREMENTS:** Select nonstructural building products that demonstrate achievement in one or more of five criteria areas:
 - ▶ Climate health
 - ▶ Human health
 - ▶ Ecosystem health
 - ▶ Social health and equity
 - ▶ Circular economy

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Eligible Materials

- ▶ Interior and enclosure materials from product categories:
 - ▶ Paints and coatings
 - ▶ Adhesives and sealants
 - ▶ **Flooring**
 - ▶ **Walls**
 - ▶ **Ceilings**
 - ▶ Insulation
 - ▶ Furniture
 - ▶ Composite wood
 - ▶ Plumbing fixtures
- ▶ Exposed concrete could be eligible.
- ▶ MRpc181 for structural materials (details to come)

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Multi-Attribute Score (MAS)

Table: 1. Product Documentation Scores in LEED v5

Eligible Product Documentation	Criteria Areas					LEED Multi-Attribute Score (max = 5)
	Human Health	Climate Health	Ecosystem Health	Social Health & Equity	Circular Economy	
Biobased Content, Non-Wood (½ x verified biobased content %)	-	-	-	-	%	up to 1
BIFMA LEVEL (2019): achievement of 7.5.1.1 or 7.5.2.2	1	*	-	-	%	1+
BIFMA LEVEL (2024) Tier 1 or Tier 2	-	*	-	-	%	up to 2
BIFMA LEVEL (2024) Tier 3	1	*	-	1	%	2+
BIFMA LEVEL (2024) Tier 4	2	*	1	1	1	5

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Multi-Attribute Score (MAS)

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	Human Health	Climate Health	Ecosystem Health	Social Health & Equity	Circular Economy	
Concrete Sustainability Council: Concrete Plant Certification, Bronze	-	-	-	1	-	1
Concrete Sustainability Council: Concrete Plant Certification, Silver	-	-	1	1	-	2
Concrete Sustainability Council: Concrete Plant Certification, Gold or Platinum	-	-	1	2	-	3
Concrete Sustainability Council: Concrete Mix with CO ₂ Module Score of 1 Star	-	1	-	-	-	1
Concrete Sustainability Council: Concrete Mix with CO ₂ Module Score of 2, 3, or 4 Stars	-	2	-	-	-	2

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Multi-Attribute Score (MAS)

Table: 1. Product Documentation Scores in LEED v5

Eligible Product Documentation	Criteria Areas					LEED Multi-Attribute Score (max = 5)
	Human Health	Climate Health	Ecosystem Health	Social Health & Equity	Circular Economy	
Cradle to Cradle: Bronze (Version 3.1)	1	-	-	-	%	1+
Cradle to Cradle: Bronze (Version 4.0/4.1)	1	-	-	1	%	2+
Cradle to Cradle: Silver (Version 3.1)	2	-	-	1	%	3+
Cradle to Cradle: Silver (Version 4.0/4.1)	2	1	1	1	1	5
Cradle to Cradle: Gold (Version 3.1)	3	1	1	1	1	5

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Multi-Attribute Score (MAS)

Table: 1. Product Documentation Scores in LEED v5

Eligible Product Documentation	Criteria Areas					LEED Multi-Attribute Score (max = 5)
	Human Health	Climate Health	Ecosystem Health	Social Health & Equity	Circular Economy	
Cradle to Cradle: Gold (Version 4.0/4.1)	3	2	1	2	2	5
Cradle to Cradle: Platinum (Version 3.1)	3	2	2	2	2	5
Cradle to Cradle: Platinum (Version 4.0/4.1)	3	3	2	3	3	5
Cradle to Cradle: Certified Circularity, Bronze (v4.1)	1	-	-	-	%	1+
Cradle to Cradle: Certified Circularity, Silver (v4.1)	1	-	-	-	1	2

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Multi-Attribute Score (MAS)

Table: 1. Product Documentation Scores in LEED v5

Eligible Product Documentation	Criteria Areas					LEED Multi-Attribute Score (max = 5)
	Human Health	Climate Health	Ecosystem Health	Social Health & Equity	Circular Economy	
Cradle to Cradle: Certified Circularity, Gold (v4.1)	1	-	-	-	2	3
Cradle to Cradle: Certified Circularity, Platinum (v4.1)	1	-	-	-	3	4
Cradle to Cradle: Material Health Certificate, Bronze (v3.1/v4.0/v4.1)	1	-	-	-	-	1
Cradle to Cradle: Material Health Certificate, Silver (v3.1/v4.0/v4.1)	2	-	-	-	-	2
Cradle to Cradle: Material Health Certificate, Gold (v3.1/v4.0/v4.1)	3	-	-	-	-	3
Cradle to Cradle: Material Health Certificate, Platinum (v3.1/v4.0/v4.1)	3	-	-	-	-	3

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Multi-Attribute Score (MAS)

Table 1. Product Documentation Scores in LEED v5

Eligible Product Documentation	Criteria Areas					LEED Multi-Attribute Score (max = 5)
	Human Health	Climate Health	Ecosystem Health	Social Health & Equity	Circular Economy	
Declare (v2.0)	1	-	-	-	-	1
Declare: Third-party Verified and Red List Free or Red List Approved (v2.0)	2	-	-	-	-	2
EPD: Product-Specific Type III	-	1	-	-	-	1
EPD: Optimized (>20% reduction in GWP)	-	2	1	-	-	3
EPD: Optimized (>40% reduction in GWP and >10% reduction in three additional impact categories)	-	3	2	-	-	5

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Multi-Attribute Score (MAS)

Table 1. Product Documentation Scores in LEED v5

Eligible Product Documentation	Criteria Areas					LEED Multi-Attribute Score (max = 5)
	Human Health	Climate Health	Ecosystem Health	Social Health & Equity	Circular Economy	
Global Green TAG: Product Health Declaration	2	-	-	-	-	2
Green Seal GS-11 Certified	2	-	-	-	-	2
HPD: Pre-Checked for LEED, min 1000ppm	1	-	-	-	-	1
HPD: Third-Party Verified, 100ppm, Avoidance of Chemicals of High Concern	2	-	-	-	-	2
Materials Reuse (100% reused product)	-	2	1	-	2	5
Recycled Content (½ x pre-consumer % + 1x post-consumer %)	-	-	-	-	%	up to 1

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Multi-Attribute Score (MAS)

Table: 1. Product Documentation Scores in LEED v5

Eligible Product Documentation	Criteria Areas					LEED Multi-Attribute Score (max = 5)
	Human Health	Climate Health	Ecosystem Health	Social Health & Equity	Circular Economy	
Wood Products: Legal Sourcing with Disclosure	-	-	1	-	-	1
Wood Products: "FSC Recycled" label	-	-	1	-	1	2
Wood Products: "FSC Mix" label	-	-	2	2	-	4
Wood Products: "FSC 100%" label	-	-	3	2	-	5
Wood Products: "PEFC Recycled" label	-	-	1	-	1	2
Wood Products: "PEFC Certified" label	-	-	2	1	-	3

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Multi-Attribute Score (MAS)

Table: 1. Product Documentation Scores in LEED v5

Eligible Product Documentation	Criteria Areas					LEED Multi-Attribute Score (max = 5)
	Human Health	Climate Health	Ecosystem Health	Social Health & Equity	Circular Economy	
Wood Products: "SFI Certified Chain of Custody - 100% Recycled Content" label	-	-	1	-	1	2
Wood Products: "SFI Certified Chain of Custody - Promoting Sustainable Forestry and Recycled Content" label	-	-	1	-	1	2
Wood Products: "SFI Certified Chain of Custody - Promoting Sustainable Forestry" label	-	-	2	1	-	3
Wood Products: "SFI Certified Chain of Custody - 100% from a SFI Certified Forest" label	-	-	3	1	-	4
USGBC-Approved Extended Producer Responsibility Program	-	-	-	-	1	1
Other USGBC-Approved Programs	TBD					

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Multi-Attribute Score (MAS)

Note: Products with more than one eligible document can combine scores across different criteria areas (horizontally) to get a total multi-attribute score for the product. However, scores from within a single criteria area (vertically) are not additive and the product will be assigned the highest achieved value in the criteria area only.

Example: Concrete mixture with CSC Silver and EPDs

Concrete Sustainability Council: Concrete Plant Certification, Silver	-	-	1	1	-	2
Concrete Sustainability Council: Concrete Plant Certification, Gold or Platinum	-	-	1	2	-	3
Concrete Sustainability Council: Concrete Mix with CO ₂ Module Score of 1 Star	-	1	-	-	-	1
EPD: Product-Specific Type III	-	1	-	-	-	1
EPD: Optimized (>20% reduction in GWP)	-	2	1	-	-	3

$$\text{MAS} = 2 + 1 + 1 = 4$$

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Multi-attribute adjusted value

Equation 1. Calculate the multi-attribute adjusted value of a product category

$$\text{Product category adjusted value for LEED} = 100 \times \left[\frac{\left(\frac{\text{Product A MAS} \times \text{Product A value}}{\text{Product A value}} \right) + \left(\frac{\text{Product B MAS} \times \text{Product B value}}{\text{Product B value}} \right) + \left(\frac{\text{Product C MAS} \times \text{Product C value}}{\text{Product C value}} \right) + \left(\frac{\text{Product D MAS} \times \text{Product D value}}{\text{Product D value}} \right)}{\text{Total value of all products in the product category}} \right]$$

Any product category **adjusted value** exceeding 100% earns 1 point.

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Points awarded

Table 1. Points for Multi-Attribute Achievement of Product Categories

Number of Product Categories	Points
1 product category	1
2 product categories	2
3 product categories	3
4 product categories	4
5 product categories	5

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Example for exposed concrete floors

Mixture	Multi-attribute Documentation	Value	MAS	Adjusted Value
Slab on Grade	<ul style="list-style-type: none"> • CSC Silver • EPD Opt. 20% 	\$20,000		
First floor slab	<ul style="list-style-type: none"> • CSC Silver • EPD 	\$30,000		
Floors 1-6 slabs	<ul style="list-style-type: none"> • CSC Silver • EPD 	\$180,000		
Floors 7-15 tile	-	\$270,000		
TOTALS		\$500,000		

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Slab on grade MAS

▶ Concrete Sustainability Council: Concrete Plant Certification, Silver	-	-	1	1	-	2
▶ Concrete Sustainability Council: Concrete Plant Certification, Gold or Platinum	-	-	1	2	-	3
▶ Concrete Sustainability Council: Concrete Mix with CO ₂ Module Score of 1 Star	-	1	-	-	-	1
▶ EPD: Product-Specific Type III	-	1	-	-	-	1
▶ EPD: Optimized (>20% reduction in GWP)	-	2	1	-	-	3

$$\text{MAS} = 2 + 1 + 1 = 4$$

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First floor slab MAS

▶ Concrete Sustainability Council: Concrete Plant Certification, Silver	-	-	1	1	-	2
▶ Concrete Sustainability Council: Concrete Plant Certification, Gold or Platinum	-	-	1	2	-	3
▶ Concrete Sustainability Council: Concrete Mix with CO ₂ Module Score of 1 Star	-	1	-	-	-	1
▶ EPD: Product-Specific Type III	-	1	-	-	-	1
▶ EPD: Optimized (>20% reduction in GWP)	-	2	1	-	-	3

$$\text{MAS} = 1 + 1 + 1 = 3$$

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Floor 1-6 slab MAS

▶ Concrete Sustainability Council: Concrete Plant Certification, Silver	-	-	1	1	-	2
▶ Concrete Sustainability Council: Concrete Plant Certification, Gold or Platinum	-	-	1	2	-	3
▶ Concrete Sustainability Council: Concrete Mix with CO ₂ Module Score of 1 Star	-	1	-	-	-	1
▶ EPD: Product-Specific Type III	-	1	-	-	-	1
▶ EPD: Optimized (>20% reduction in GWP)	-	2	1	-	-	3

MAS = 1 + 1 + 1 = 3

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Example for exposed concrete floors

Mixture	Multi-attribute Documentation	Value	MAS	Adjusted Value
Slab on Grade	<ul style="list-style-type: none"> CSC Silver EPD Opt. 20% 	\$20,000	4	\$80,000
First floor slab	<ul style="list-style-type: none"> CSC Silver EPD 	\$30,000	3	\$90,000
Floors 1-6 slabs	<ul style="list-style-type: none"> CSC Silver EPD 	\$180,000	3	\$540,000
Floors 7-15 tile	X	\$270,000	0	\$0
TOTALS		\$500,000		\$710,000

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Multi-attribute adjusted value for flooring

$$= 100\% \times \left[\frac{(\$20,000 \times 4) + (\$30,000 \times 3) + (\$180,000 \times 3) + (\$270,000 \times 0)}{\$500,000} \right]$$

= 142% > 100%

Earns 1 Point

Number of Product Categories	Points
1 product category	1
2 product categories	2
3 product categories	3
4 product categories	4
5 product categories	5

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MULTI-ATTRIBUTE STRUCTURE, ENCLOSURE, HARDSCAPE, AND OTHER BUILDING MATERIALS

- ▶ **Project Priority Credit**
- ▶ **MRpc181 | Possible 2 Points**
- ▶ **Intent:** Support the procurement of products and materials that have sustainability information available across multiple criteria.
- ▶ **Requirements:** Select building products with certifications in **two or more** of five criteria areas through certification:
 - ▶ Climate health
 - ▶ Human health
 - ▶ Ecosystem health
 - ▶ Social health and equity
 - ▶ Circular economy
- ▶ **Eligible Products:** Products eligible for this credit include permanently installed products that are not included within MRc4.

MAS calculated
The same as MRc4

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Table: 1. Product Documentation Scores in LEED v5

Eligible Product Documentation	Criteria Areas					LEED Multi-Attribute Score (max = 5)
	Human Health	Climate Health	Ecosystem Health	Social Health & Equity	Circular Economy	
Concrete Sustainability Council: Concrete Plant Certification, Bronze	-	-	-	1	-	1
Concrete Sustainability Council: Concrete Plant Certification, Silver	-	-	1	1	-	2
Concrete Sustainability Council: Concrete Plant Certification, Gold or Platinum	-	-	1	2	-	3
Concrete Sustainability Council: Concrete Mix with CO ₂ Module Score of 1 Star	-	1	-	-	-	1
Concrete Sustainability Council: Concrete Mix with CO ₂ Module Score of 2, 3, or 4 Stars	-	2	-	-	-	2
EPD: Product-Specific Type III	-	1	-	-	-	1
EPD: Optimized (>20% reduction in GWP)	-	2	1	-	-	3
EPD: Optimized (>40% reduction in GWP and >10% reduction in three additional impact categories)	-	3	2	-	-	5

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Points for MRpc181

Table 1. Points for multi-attribute achievement of products

Number of Products*	Minimum multi-attribute score per product	Points
15	3	1
30	3	2

*No more than 10 eligible products from single manufacturer

- ▶ Concrete on a project with 10+ mixtures with MAS 3+
 - ▶ CSC Bronze (1) + EPD Optimized 20% (2) = 3
 - ▶ CSC Silver (2) + EPD (1) = 3
 - ▶ CSC Platinum = 3
 - ▶ CSC Silver (2) + CSC CO₂ Module 1 Star (1) = 3
 - ▶ Other combinations

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What is CSC Certification?



- ▶ The global certification system for responsibly sourced ready-mixed and precast concrete (includes cement and aggregates)
- ▶ www.csc.eco

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What is Responsible Sourcing?

Incorporates ethical, sustainable and socially conscious principles into sourcing, procurement and overall supply chain management practices

Ensures business between a buyer and its suppliers is conducted in a manner that does not negatively impact society or the environment

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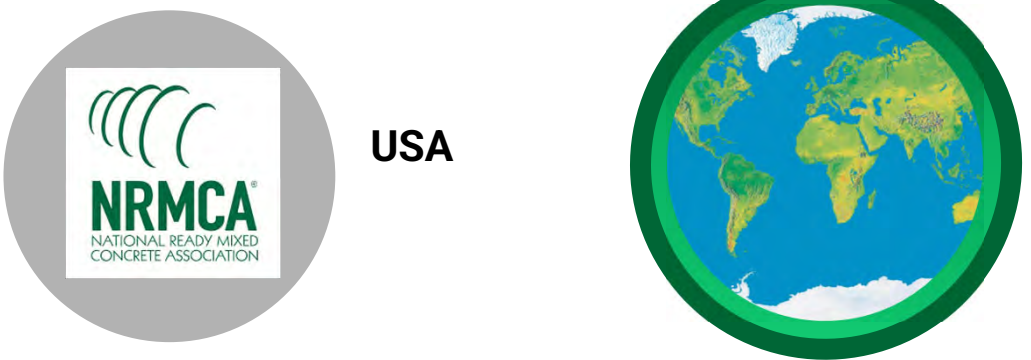
Why should you care?




- DEMONSTRATE LEADERSHIP IN SUSTAINABLE MANUFACTURING**
- MEET LEED, ENVISION, OTHER GREEN BUILDING STANDARDS**
- CONTRIBUTE TO SUSTAINABLE CONSTRUCTION PRACTICES**

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Regional System Operators



USA



- Austria**
- Belgium**
- Germany**
- Italy**
- Latin America**
- MENA**
- Netherlands**
- Turkey**

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What does the system reward?

<p>PREREQUISITES</p> <ul style="list-style-type: none"> P1 Ethical and Legal Compliance P2 Human Rights P3 Indigenous People Rights P4 Environmental and Social Impact P5 Traced Materials P6 Vessels Evidence List <p>MANAGEMENT</p> <ul style="list-style-type: none"> M1 Sustainable Purchasing M2 Environmental Management M3 Quality Management M4 Health & Safety Management M5 Benchmark 	<p>ENVIRONMENTAL</p> <ul style="list-style-type: none"> E1 Life Cycle Impact E2 Land Use E3 Energy & Climate E4 Air Quality E5 Water E6 Biodiversity E7 Secondary Materials E8 Transport E9 Secondary Fuels <p>SOCIAL</p> <ul style="list-style-type: none"> S1 Local Community S2 Health Product Information S3 Occupational Health & Safety S4 Labor Practices 	<p>ECONOMICS</p> <ul style="list-style-type: none"> B1 Local Economy B2 Ethical Business B3 Innovation B4 Feedback Procedure <p>CHAIN OF CUSTODY</p> <ul style="list-style-type: none"> C1 Cement C2 Aggregates C3 Clinker C4 Raw Aggregates Suppliers C5 Ready Mix Concrete C6 Steel Reinforcement C7 Slag Supply to CSC Slag Grinder C8 Cement supply to CSC Cement Blender
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Transparency Documentation in LEED


<p>▶ EPDs</p> <ul style="list-style-type: none">• Product Level Certification• Uses Life Cycle Assessment (LCA)• Measure environmental impacts<ul style="list-style-type: none">• GWP• Non-renewable energy• Acidification• Ozone Depletion• 30 or more impacts <p style="text-align: center;">LEED v5: MRp2, MRc2, MRpc182</p>	<p>▶ CSC Responsible Sourcing</p> <ul style="list-style-type: none">• Plant Level Certification• Environmental Impacts<ul style="list-style-type: none">• Uses EPDs to measure GWP• Air, water and soil impacts• Social Impacts<ul style="list-style-type: none">• Health and safety• Labor practices• Ethical business practices) <p style="text-align: center;">LEED v5: MRc2, MRpc181</p>
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Concrete's Contribution to LEED v5

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CONCRETENEXUS

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