

Indoor Environmental Quality: Low-Emitting Materials (continued)

Option 2. Budget Calculation Method (continued)

Calculate surface area of assembly layers based on the manufacturer's documentation for application.

If 90% of an assembly meets the criteria, the system counts as 100% compliant. If less than 50% of an assembly meets the criteria, the assembly counts as 0% compliant.

Manufacturers' claims. Both first-party and third-party statements of product compliance must follow the guidelines in CDPH SM V1.1–2010, Section 8. Organizations that certify manufacturers' claims must be accredited under ISO Guide 65.

Laboratory requirements. Laboratories that conduct the tests specified in this credit must be accredited under ISO/IEC 17025 for the test methods they use.

Emissions and Content Requirements

To demonstrate compliance, a product or layer must meet all of the following requirements, as applicable.

Inherently non-emitting sources. Products that are inherently non-emitting sources of VOCs (stone, ceramic, *powder-coated metals*, *plated or anodized metal*, glass, concrete, clay brick, and unfinished or untreated solid wood flooring) are considered fully compliant without any VOC emissions testing if they do not include integral organic based surface coatings, binders, or sealants.

General emissions evaluation. Building products must be tested and determined compliant in accordance with California Department of Public Health (CDPH) Standard Method v1.1–2010, using the applicable exposure scenario. The default scenario is the private office scenario. The manufacturer's or third-party certification must state the exposure scenario used to determine compliance. Claims of compliance for wet-applied products must state the amount applied in mass per surface area.

Manufacturers' claims of compliance with the above requirements must also state the range of total VOCs after 14 days (336 hours), measured as specified in the CDPH Standard Method v1.1:

- 0.5 mg/m³ or less;
- between 0.5 and 5.0 mg/m³; or
- 5.0 mg/m³ or more.

Qualifications for LEED Credit:

Indoor Environmental Quality: Low-Emitting Materials (continued)

Projects outside the U.S. may use products tested and deemed compliant in accordance with either (1) the CDPH standard method (2010) or (2) the German AgBB Testing and Evaluation Scheme (2010). Test products either with (1) the CDPH Standard Method (2010), (2) the German AgBB Testing and Evaluation Scheme (2010), (3) ISO 16000-3: 2010, ISO 16000-6: 2011, ISO 16000-9: 2006, ISO 16000-11:2006 either in conjunction with AgBB, or with French legislation on VOC emission class labeling, or (4) the DIBt testing method (2010). If the applied testing method does not specify testing details for a product group for which the CDPH standard method does provide details, use the specifications in the CDPH standard method. U.S. projects must follow the CDPH standard method.

Firemiser Insulated Fire Doors

Specifying Firemiser Insulated Fire Doors as your exterior opening product helps project teams reduce a building's environmental footprint by choosing doors that are constructed of powder-coated, plated and/or anodized metal and mineral wool insulation materials which are inherently non-emitting sources of VOCs (no volatile organic compounds, no chemical additives and no impurities).

Additionally, choosing Firemiser Insulated Fire Doors guarantees protection against contaminants that can damage air quality, human health, productivity, and the environment and ensures the safety of both the installing trades as well as the end-user occupants.

Innovation Credit: Innovation

Intent

To encourage projects to achieve exceptional or innovative performance.

Application

- Data Centers (1–5 points)
- Warehouses and Distribution Centers (1–5 points)
- Hospitality (1–5 points)
- Healthcare (1–5 points)
- New Construction (1–5 points)
- Core and Shell (1–5 points)
- Schools (1-5 points)
- Retail (1–5 points)

Requirements

Project teams can use any combination of innovation, pilot, and exemplary performance strategies. Projects may earn *up to 5 points through any combination of the following*:

- Innovation (up to 4 points). This option is appropriate for strategies that are not addressed by any existing credits in the LEED rating system under which the project will be certified.
- Pilot credits (up to 4 points). This option requires project teams to achieve, document, and provide feedback on pilot credit strategies developed by USGBC members and committees.
- Exemplary performance (up to 2 points). This option is achieved by demonstrating performance that greatly exceeds the level or scope required by existing LEED prerequisites or credits.

Innovation Credit: Innovation (continued)

Option 1. Innovation (1 point)

Achieve significant, measurable environmental performance using a strategy not addressed in the LEED green building rating system. Identify the following:

- the intent of the proposed innovation credit;
- proposed requirements for compliance;
- proposed submittals to demonstrate compliance; and
- the design approach or strategies used to meet the requirements.

Option 2. Pilot (1 point)

Achieve one pilot credit from USGBC's LEED Pilot Credit Library

Option 3. Additional Strategies

- **Innovation (1-3 points)**
Defined in Option 1 above.
- **Pilot (1–3 points)**
Meet the requirements of Option 2.
- **Exemplary Performance (1–2 points)**
Achieve exemplary performance in an existing LEED v4 prerequisite or credit that allows exemplary performance, as specified in the LEED Reference Guide, v4 edition. An exemplary performance point is typically earned for achieving double the credit requirements or the next incremental percentage threshold.

Behind the Intent

Sustainable design comes from innovative strategies and thinking. Institutional measures that reward such thinking—such as the achievement of this credit—benefit our environment. Recognition of exceptional efforts will spur further innovation.

When project teams innovate and go beyond LEED requirements, they not only achieve measurable environmental benefits beyond those specified by the LEED rating system, they also have the opportunity to explore cutting-edge pilot credits and contribute to the development of future LEED credits.

Qualifications for LEED Credit:

Innovation Credit: Innovation (continued)

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When project teams can demonstrate that the project exceeds the standard level of performance associated with one or more LEED credits, their innovations can be adopted by other teams in the future.

Innovation credits are not awarded for the use of a particular product or design strategy if the technology aids in the achievement of an existing LEED credit, even if the project is not attempting to earn that credit.

No strategy can achieve more than 1 point under Innovation. That is, a single strategy cannot be double-counted for both exemplary performance and innovation (or both exemplary performance and a pilot credit, or both a pilot credit and innovation).

Required Documentation

Option 1: Innovation

1. Innovation narrative
2. Supporting documentation

Option 2: Pilot Credits

1. Supporting documentation
2. Pilot credit registration
3. Pilot credit survey
4. Pilot credit specific submittals

Option 3: Additional Strategies / Exemplary Performance

1. Supporting documentation
2. Exemplary performance credit and level

Firemiser Insulated Fire Doors

Choosing Firemiser Insulated Fire Doors as an innovative design element and/or utilizing Firemiser Insulated Fire Doors to achieve exceptional or innovative performance as a construction envelope element could contribute to any combination of innovation, pilot and exemplary performance strategies that may earn up to 5 Credit points toward LEED Certification. Firemiser is the proven environmentally responsible choice.

Qualifications for LEED Credit:

Regional Priority

Intent

To provide an incentive for the achievement of credits that address geographically specific environmental, social equity, and public health priorities.

Application

- Data Centers (1–4 points)
- Warehouses and Distribution Centers (1–4 points)
- Hospitality (1–4 points)
- Healthcare (1–4 points)
- New Construction (1–4 points)
- Core and Shell (1–4 points)
- Schools (1–4 points)
- Retail (1–4 points)

Requirements

Earn up to four of the six Regional Priority credits. These credits have been identified by the USGBC regional councils and chapters as having additional regional importance for the project's region. A database of Regional Priority credits and their geographic applicability is available on the USGBC website, <http://www.usgbc.org>. One point is awarded for each Regional Priority credit achieved, up to a maximum of four. A database of Regional Priority credits and their geographic applicability is available on the USGBC website, <http://www.usgbc.org>.

Required Documentation

No additional documentation is required to earn Regional Priority credits. Document compliance for the selected credits, and the related RP bonus points for their achievement will be awarded automatically. For every location in the U.S., six credits are prioritized.

Firemiser Insulated Fire Doors

Choosing Firemiser Insulated Fire Doors as an innovative construction envelope element could contribute to the achievement of up to 4 Credit points that address geographically specific environmental, social equity and public health priorities. Selecting Cornell Iron Works Rolling Firemiser Insulated Fire Doors proves to be the environmentally AND socially responsible choice by recognizing a project location's priority issues and addressing them through design, construction and operation choices.

APPENDIX I:

LEED Recycled Content Calculator

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The content calculator represented here is submitted as an example of how Cornell measures the recycled content of the various assembly materials in any given custom-built product. Since each Firemiser Insulated Fire Door product is custom built to order for the specific requirements (size, materials: steel, stainless, etc.) of the application, the formula to determine recycled content is complicated.

Please reference the cover page of Cornell submittal drawings for the project specific recycled content information. The recycled content information is provided as a Total Recycled Content weight and % of total product weight, and is further broken down into Post Consumer Content and Post Industrial Content.

LEED Recycled Content File Maintenance

Curtain

Galvanized Slat PC%	Galvanized Slat PI%	Stainless Slat PC%	Stainless Slat PI%
0.23	0.07	0.0	0.67
Galvanized Grille Rod PC%	Galvanized Grille Rod PI%	Stainless Grille Rod PC%	Stainless Grille Rod PI%
0.0	0.0	0.0	0.0

Bottom Bar

Galvanized Angle BBar PC%	Galvanized Angle BBar PI%	Stainless Angle BBar PC%	Stainless Angle BBar PI%
0.83	0.17	0.0	0.0
Stainless Bent BBar PC%	Stainless Bent BBar PI%		
0.0	0.67		

Hood

Galvanized Hood PC%	Galvanized Hood PI%	Stainless Hood PC%	Stainless Hood PI%
0.23	0.07	0.0	0.67

Guides

Galvanized Struct. Angle PC%	Galvanized Struct. Angle PI%	Stainless Struct. Angle PC%	Stainless Struct. Angle PI%
0.56	0.389	0.0	0.0
Stainless Bent Angle PC%	Stainless Bent Angle PI%		
0.0	0.67		

Shaft

Shaft Steel PC%	Shaft Steel PI%
0.0	0.33

Brackets

Bracket Steel PC%	Bracket Steel PI%
0.0	0.33