

Tranquil Leed Credit Evaluation

Leadership in Energy and Environmental Design (LEED) is a program headed by the United States Green Building Council (USGBC) that promotes certification of green building projects across architectural sectors. LEED certification is point-based; projects seeking certification must not only satisfy a list of prerequisites, but also earn additional points depending on the desired level of certification - certified, silver, gold or platinum.

LEED uses five distinct rating systems, each with its own set of credit categories and associated list of criteria. Each rating system covers a variety of building project types, including but not limited to divisions such as existing buildings, schools, retail, hospitality, and data centers. Though other rating systems exist, LEED is the most recognized set of green building standards in the world, with more than 72,500 sustainable building projects certified globally.

Tranquil Systems believes that certification systems such as LEED equate to increased environmental health and a brighter future for all. We recognize the importance of sustainability in the built environment and actively work to reduce the impact that our manufacturing has on the planet. Our walling systems provide flexibility for reconfiguration and reuse, which amounts to fewer raw materials needed for production and more waste diverted from landfills.

The use of Tranquil Systems' walls in your building project can have a significant influence on the procurement of LEED credits. The following informational document provides design professionals with an understanding of how Tranquil Systems' products have either an explicit or indirect impact on the achievement of LEED certification. The information is sorted first by rating system and all applicable project types, then by individual point-based criteria with the associated credit categories in parentheses. All material below is based on the most recent version of LEED (v4), and all quotations are taken directly from the USGBC's website. For more information, visit www.usgbc.org.



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Principal attributes:

- Product reuse
- Product recycling

Applicable rating systems:

- Building Design and Construction (BD + C)
- Building Operations and Management (O + M)
- Interior Design and Construction (ID + C)

Pertinent credit categories:

- Energy and Atmosphere (EA)
- Materials and Resources (MR)
- Indoor Environmental Quality (IEQ)
- Innovation (I)

Tranquil Systems' demountable walling products contribute to the accretion of the following credits for LEED v4:

BD + C for New Construction, Schools, and Healthcare

1. Minimum Energy Performance (EA – prerequisite)

- Intent is to “reduce the environmental and economic harms of excessive energy use by achieving a minimum level of energy efficiency for the building and its systems.”
- Adapt walling systems are applicable with regard to a reduction in energy consumption used for electric lighting.

2. Optimize Energy Performance (EA – 1 point)

- Intent is to “achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use.”
- Adapt walling systems are applicable to Option 2 with regard to interior lighting, including daylighting and interior finishes.

3. Construction and Demolition Waste Management Planning (MR – prerequisite)

- Intent is to “reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.”
- Adapt and Access walling systems are applicable with regard to waste diversion.



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BD + C for New Construction, Schools, and Healthcare (Continued)

4. Building Life Cycle Impact Reduction (MR – 2 to 4 points)

- Intent is to “encourage adaptive reuse and optimize the environmental performance of products and materials.”
- Adapt and Access walling systems are applicable to Option 3 with regard to building and material reuse.

5. Construction and Demolition Waste Management (MR – 1 to 2 points)

- Intent is to “reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.”
- Adapt and Access walling systems are applicable to Option 1 with regard to waste diversion of 50%-75%.

6. Daylight (IEQ – 1 to 3 points)

- Intent is to “connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.”
- Adapt walling systems are applicable to Options 1, 2 and 3 with regard to spatial daylight autonomy and illuminance calculations and measurements.

7. Quality Views (IEQ – 1 point)

- Intent is to “give building occupants a connection to the natural outdoor environment by providing quality views.”
- Adapt walling systems are applicable with regard to achieving a direct line of sight to the outdoors.

8. Acoustic Performance (IEQ – 1 point)

- Intent is to “provide workspaces and classrooms that promote occupants’ well-being, productivity, and communications through effective acoustic design.”
- Access walling systems are applicable with regard to minimum composite sound transmission class ratings for adjacent spaces.

9. Design for Flexibility (I – 1 point)

- Intent is to “conserve resources associated with the construction and management of buildings by designing for flexibility and ease of future adaptation and for the service life of components and assemblies.”
- Adapt and Access walling systems are applicable with regard to increasing building flexibility and ease of adaptive use over the life of the structure by specifying demountable partition systems.



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O + M for Existing Buildings and Schools

1. Minimum Energy Performance (EA – prerequisite)
 - Intent is to “reduce the environmental and economic harms associated with excessive energy use by establishing a minimum level of operating energy performance.”
 - Adapt walling systems are applicable to Option 1 or 2 with regard to a reduction in metered energy consumption.
2. Optimize Energy Performance (EA – 1 to 20 points)
 - Intent is to “reduce environmental and economic harms associated with excessive energy use by achieving higher levels of operating energy performance.”
 - Adapt walling systems are applicable to Option 1 or 2 with regard to demonstrating increased energy efficiency.
3. Facility Maintenance and Renovation Policy (MR – prerequisite)
 - Intent is to “reduce the environmental harms associated with the materials purchased, installed, and disposed of during maintenance and renovation of buildings.”
 - Adapt and Access walling systems are applicable with regard to purchasing and waste management policies for diversion of waste during renovations.
4. Purchasing—Facility Maintenance and Renovation (MR – 1 point)
 - Intent is to “reduce the environmental harm from materials used in building renovations.”
 - Adapt, Access and Seclusion walling systems are applicable to Option 1 with regard to materials reuse.
5. Daylight and Quality Views (IEQ – 2 to 4 points)
 - Intent is to “connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight and views into the space.”
 - Adapt walling systems are applicable to Option 1 and 2 with regard to daylight measurement and quality views.
6. Occupant Comfort Survey (IEQ – 1 point)
 - Intent is to “assess building occupants’ comfort.”
 - Adapt and Access walling systems are applicable with regard to collecting occupant survey responses about acoustics and lighting.



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O + M for Existing Buildings and Schools (Continued)

7. Design for Flexibility (I – 1 point)

- Intent is to “conserve resources associated with the construction and management of buildings by designing for flexibility and ease of future adaptation and for the service life of components and assemblies.”
- Adapt and Access walling systems are applicable with regard to increasing building flexibility and ease of adaptive use over the life of the structure by specifying demountable partition systems.

ID + C for Commercial Interiors

1. Minimum Energy Performance (EA – prerequisite)

- Intent is to “reduce the environmental and economic harms of excessive energy use by achieving a minimum level of energy efficiency for the building and its systems.”
- Adapt walling systems are indirectly applicable to Option 2 with regard to prescriptive compliance in reducing connected lighting power density.

2. Optimize Energy Performance (EA – 1 to 25 points)

- Intent is to “achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic harms associated with excessive energy use.”
- Adapt walling systems are indirectly applicable to Option 1 and 2 with regard to analysis of efficiency measures and daylighting controls.

3. Construction and Demolition Waste Management Planning (MR – prerequisite)

- Intent is to “reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.”
- Adapt and Access walling systems are applicable with regard to waste diversion.

4. Long-Term Commitment (MR – 1 point)

- Intent is to “encourage choices that will conserve resources and reduce environmental harm from materials manufacturing and transport for tenants’ relocation.”
- Adapt and Access walling systems are indirectly applicable due to their reusability, which can encourage a building occupant or tenant to reconfigure or renovate their space and thereby remain in the same location for the 10-year minimum required by the credit.



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ID + C for Commercial Interiors (Continued)

5. Interiors Life-Cycle Impact Reduction (MR – 1 to 4 points)

- Intent is to “encourage adaptive reuse and optimize the environmental performance of products and materials.”
- Adapt and Access walling systems are applicable to Option 3 with regard to designing for flexibility by specifying movable and demountable walls.

6. Construction and Demolition Waste Management (MR – 1 to 2 points)

- Intent is to “reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.”
- Adapt and Access walling systems are applicable to Option 1 with regard to waste diversion of 50%-75%.

7. Daylight (IEQ – 1 to 3 points)

- Intent is to “connect building occupants with the outdoors, reinforce circadian rhythms, and reduce the use of electrical lighting by introducing daylight into the space.”
- Adapt walling systems are applicable to Options 1, 2 and 3 with regard to spatial daylight autonomy and illuminance calculations and measurements.

8. Quality Views (IEQ – 1 point)

- Intent is to “give building occupants a connection to the natural outdoor environment by providing quality views.”
- Adapt walling systems are applicable with regard to achieving a direct line of sight to the outdoors.

9. Acoustic Performance (IEQ – 1 point)

- Intent is to “provide workspaces and classrooms that promote occupants’ well-being, productivity, and communications through effective acoustic design.”
- Access walling systems are applicable with regard to minimum composite sound transmission class ratings for adjacent spaces.

10. Design for Flexibility (I – 1 point)

- Intent is to “conserve resources associated with the construction and management of buildings by designing for flexibility and ease of future adaptation and for the service life of components and assemblies.”
- Adapt and Access walling systems are applicable with regard to increasing building flexibility and ease of adaptive use over the life of the structure by specifying demountable partition systems.

