

NOTE: A new version of LEED was released in April 2009. The LEED 2009 rating systems applies only to the United States, and will be required for use on new LEED projects beginning in June 2009. For information on LEED 2009 please refer the technical bulletins listed below. For information on LEED Canada the information in this document is still applicable.

- *Technical Bulletin No.17, LEED 2009 Rating System - Major Differences between V2.2 & V3*
- *Technical Bulletin No.18, LEED for New Construction & Major Renovations V3*
- *Technical Bulletin No.19, LEED for Schools V3*

The energy benefits and minimal environmental impacts that LOGIX wall systems provide play a significant role in construction projects seeking LEED certification. To assist building professionals and owners a table summarizing the potential LEED points that LOGIX can contribute is shown on the last page.

LEED projects utilizing LOGIX can achieve all 10 points under "Energy and Atmosphere Credit 1". In total, LOGIX can potentially contribute up to 20* (21* in Canada) of the 26 points required to gain LEED certification with three additional points for renovations that include existing LOGIX walls.

BACKGROUND ON LEED

With the growing social awareness to design more energy efficient and environmentally friendly buildings, more and more building professionals and owners, are seeing the benefits of LEED certification for construction projects.

The LEED (Leadership in Energy & Environmental Design) green building rating system was created by the USGBC (US Green Building Council) in an effort to encourage energy efficient, sustainable and environmentally friendly buildings from design and construction to occupancy. Recently, CaGBC (Canadian Green Building Council) has adopted the LEED rating system with modifications to suit Canadian climates, construction and design practices.

Construction projects that have met a certain number of LEED requirements become LEED certified by the USGBC or CaGBC. In turn, LEED certified buildings can add more property value, and has a positive impact on public health and the environment.

The LEED-NC is the rating system used for new construction and major renovation projects. Practitioners have also applied LEED-NC to schools, multi-unit residential buildings and many other building types.

The LEED rating system is divided into categories. Possible points achievable in each category are shown in the following table.

| Category | Maximum Points Awarded | |
|---------------------------------|---------------------------------|--|
| | United States (LEED-NC v2.2) | Canada (LEED Canada-NC v1.0) |
| Sustainable Sites | 14 | 14 |
| Water Efficiency | 5 | 5 |
| Energy & Atmosphere | 17 | 17 |
| Materials & Resource | 13 | 14 (1 additional point for "Durable Building" in Canada) |
| Indoor Environmental Quality | 15 | 15 |
| Total points | 64 | 65 |

An additional 1 to 5 points can be awarded for innovative designs, and for having a LEED Accredited Professional involved with the project.

Ratings are LEED certified based on the number of points given under each category with a minimum of 26 points required.

| Category | LEED-NC | LEED Canada-NC |
|-----------|--------------|----------------|
| Certified | 26-32 points | 26-32 points |
| Silver | 33-38 points | 33-38 points |
| Gold | 39-51 points | 39-51 points |
| Platinum | 52-69 points | 52-70 points |

For more information about the LEED green building rating system visit www.usgbc.org or www.cagbc.org.

LEED POINTS WITH LOGIX ICF*: LEED-NC v2.2 & LEED CANADA-NC v1.0

| Sustainable Sites | Points | Comments |
|--|----------|--|
| Site Development: Protect or Restore Habitat | n/a | <ul style="list-style-type: none"> Wall bracing for LOGIX is one of a combination of actions that, together, can result in proper protection or restoration of natural areas around the job site. LOGIX is typically placed within the building perimeter. This type of assembly avoids disturbance to existing natural areas and keeps construction activity close to the building perimeter. |
| Energy & Atmosphere | Points | Comments |
| Optimize Energy Performance | Up to 10 | The combination of foam insulation and the thermal mass properties of the insulated concrete provide: <ul style="list-style-type: none"> high thermal resistance for a LOGIX wall system – R24 (35+ effective Rvalue). reduction in the peak heating and cooling loads on the building air tight structure which reduces air leakage and energy use. |
| Materials & Resources | Points | Comments |
| Building Reuse: Maintain 75% of Existing Walls, Floors & Roofs | 1 | Can apply to existing LOGIX walls that make up a large part of the existing structure or building shell. Concrete walls generally have a long life span, and so tend to stay in place during renovations. |
| Building Reuse: Maintain 95% of Existing Walls, Floors & Roofs | 1 | |
| Building Reuse: Maintain 50% of Interior Non-structural Elements | 1 | Can apply to interior non-load bearing LOGIX walls. |
| Construction Waste Management: Divert 50% from Disposal | 1 | LOGIX produceS minimal on-site waste. Any on-site waste can be fully recycled. |
| Construction Waste Management: Divert 75% from Disposal | 1 | |
| Recycled Content: 10% (post-consumer + 1/2 pre-consumer) | 1 | LOGIX foam panels are made from up to 10% recycled EPS. The webs are made of 100% recycled polypropylene. |
| Recycled Content: 20% (post-consumer + 1/2 pre-consumer) | 1 | |
| Regional Materials: 10% Extracted, Processed & Manufactured Regionally | 1 | LOGIX currently has 6 manufacturing facilities throughout North America. The concrete is obtained through local suppliers. Up to 2pnts can be awarded. |
| Regional Materials: 20% Extracted, Processed & Manufactured Regionally | 1 | |
| Durable Building (applicable to LEED Canada-NC only) | 1 | Concrete is one of the most durable building materials available and is known to last for decades. With the protected layer of ICF foam panels, a LOGIX wall system can last indefinitely and will not promote the growth of mold or mildew. |
| Indoor Envir. Quality | Points | Comments |
| Minimum Indoor Air Quality Performance | 1 | ICFs are air tight structures, which make air flow and ventilation easier to control and monitor. The end result is a healthier, comfortable environment for occupants, and a reduction in HVAC capacity. |
| Increased Ventilation | | |
| Thermal Comfort: Design | | |
| Thermal Comfort:Verification | | |

Total LEED-NC v2.2* (LEED Canada-NC v1.0)* 20 (21)
 *The total LEED point contribution from LOGIX is a best estimate based on available information and test data. The actual LEED point contribution may change based on project specifics, and should be determined by a LEED Accredited Professional for each project seeking LEED accreditation.

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