

kama Energy Efficient Building Systems™ Panels Contribute to LEED Certified Buildings

kama Energy Efficient Building Systems™ (kama-eebs™) building panels can contribute points toward the US Green Building Council's LEED®-NC certification for new construction and major renovations.

Building teams seeking certification through this leading national standard in "green" building must consider the materials in order to gain the designation for their designs. kama-eebs™ panels are structural, versatile and can contribute points toward LEED-NC certification in the following categories:

LEED-NC EA: Optimized Energy Performance Credits 1.1 to 1.5 (2 to 10 Points):

kama-eebs™ panels are HCFC-free and CFC-free expanded polystyrene foam that is R-4 per inch. A building envelope with kama-eebs™ panels comply with ASHRAE/IESNA 90.1-2004 and California's Title 24-2005, as well as most international, national, and local energy codes. kama-eebs™ panels are structural yet free of any thermal bridging - not even a screw - because the structural steel studs are imbedded in the EPS foam, providing maximum thermal performance within the building envelope.

LEED-NC MR: Recycled Content Credits 4.1 to 4.2 (2-4 Points):

All materials in kama-eebs™ Walls, Floors and Roofs are 100 percent recyclable and may include both post-consumer and post-industrial recycled content. In addition, the steel studs and expanded polystyrene in kama-eebs™ panels can save up to 24 old-growth trees when compared to an average timber framed home.

LEED-NC MR: Construction Waste Management Credits 2.1 to 2.2 (1-2 Points):

kama-eebs™ panels are cut to the custom specification required during manufacturing, eliminating waste from field fabrication of wood or other materials for the wall, floor and roof components. Packaging of the panels for truck deliveries is kept to a minimum to save on any additional potential job site waste.

LEED-NC MR: Local/Regional Materials Credits 5.1 to 5.2 (1-2 Points):

Building projects within a 500 mile radius of kama's Las Vegas manufacturing facility can qualify for LEED points in the Regional Materials category. LEED requires 20 percent of the building materials to have been manufactured or extracted within 500 miles of the producer.

LEED-NC EQ: Low-Emitting Materials Credit 4.1 (1 Point):

The EPS foam is CFC-free and HCFC-free, which eliminated the potential for ozone-depleting off-gassing. The EPS foam on kama-eebs™ panels do not contain OSB board or other facer, which can support mold or mildew growth. The acoustical performance of the panels provides increased sensory comfort to building occupants.

LEED-NC DE: Innovation in Design Credits 1.1 to 1.4 (1-4 Points):

kama-eebs™ panels are so innovative in their design that this new approach to building could gain one or more LEED Innovation in Design points from the USGBC judges. Architects also gain previously unattainable environmentally friendly design versatility because kama-eebs™ panels can be built to any shape, including curved walls, to multi-story structures.

The above LEED credit section references are suggested applications of kama Energy Efficient Building Systems™ panels. The LEED applicant is ultimately responsible for determining the product attributes that will help provide LEED Certification of a building product.

Under the LEED-NC categories suggested, kama-eebs™ panels can assist building teams in obtaining a maximum of 23 LEED points, as long as the overall design meets or exceeds the LEED building performance standards.

kama-eebs™ panels can also potentially assist in gaining points in other LEED Green Building Ratings Systems, including LEED for Existing Buildings, LEED Core and Shell, LEED for Homes, LEED for Neighborhood, as well as others still under development, such as LEED for Schools, LEED for New Retail Construction, and LEED for Healthcare.

It takes a minimum of 26 points to gain LEED Certification for a building in addition to meeting several prerequisites. The additional points needed for LEED certification in buildings using kama-eebs™ panels can be gained in other categories, including sustainable site and water efficiency.

While LEED is the national benchmark for sustainable design and construction, kama-eebs™ panels will also help building teams comply with any other “green” building standards, including the Green Building Initiative’s Green Globes and various other national and regional standards.

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