

Leadership in Energy and Environmental Design (LEED)

Leadership in Energy and Environmental Design, or LEED, rating system certifies entire buildings, not individual building and structural components. Therefore, Strongwell does not have LEED certification. However, Strongwell participates in third party, peer-reviewed Life Cycle Analysis (LCA) studies. These studies demonstrate the inherent environmental advantage of Fiber Reinforced Polymer (FRP) composites compared to traditional building materials, such as aluminum and steel.

Utilizing FRP in place of traditional materials offers the following advantages:

- A significantly longer lifespan than traditional materials makes FRP a more sustainable product choice.
- Embodied energy for major raw materials used in FRP manufacturing is less than the embodied energy of components made with traditional materials, such as aluminum and steel.
- Lightweight compared to traditional materials, using FRP results in less energy required to transport and construct vs. traditional materials. On an equal volume basis, FRP generally weighs only 25% of the weight of steel and 70% of the weight of aluminum.
- FRP minimizes heat loss and thermal bridging.
- Strongwell recycles most solvents used to clean machinery in the plant with 80-90% recovery.
- Overall LCA of FRP indicates reduced environmental impact and lower carbon footprint.