



India

LEED® (Leadership in Energy and Environmental Design)

An Indian recognized certification system developed by the World Green Building Council (WGBC), LEED is a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

Buildings and communities are evaluated throughout the building lifecycle on essential metrics: energy savings, resource management, water efficiency, CO2 emissions reduction, and improved indoor environmental quality. A single score is given on a scale of Certified, Silver, Gold and Platinum.

VICTAULIC COMMITMENT TO SUSTAINABILITY

- Environmental responsibility and roots in sustainability for 85 years.
- Victaulic products are made with natural and recycled resources using lean, responsible manufacturing processes that follow the life of a building or plant.
- During installation, Victaulic products significantly reduce or eliminate waste, emissions and noise, while maximizing energy efficiency.
- Victaulic has been involved with the Alberici Headquarters, Overland, Missouri (LEED® 2.0 Platinum certification); Vancouver Olympics Village (LEED® Gold certification); Janssen Pharmaceutical (Johnson & Johnson), Titusville, New Jersey (LEED® Platinum certification); SAS Institute, Toronto, Canada; and BG Chemie in Germany.
- Victaulic assures the “green spirit” of a building by enabling sustainable piping design and system performance.
- Easy access to systems installed with Victaulic products promote routine maintenance schedules and thus enable building systems to operate at peak efficiency for the life of a system.
- Victaulic may facilitate reaching LEED® points; solid environmental commitment and experience, with LEED-certified engineers on staff.

Minimum Energy & Optimize Energy Performance

Requirement – Maximize energy performance level to reduce environmental and economic impact. All energy costs affiliated with the building, including construction, must be included. Demonstrate percentage improvement compared with baseline building performance rating:

- 10 percent improvement - prerequisite
- 12 percent improvement - one point
- 14 percent improvement - two points
- 48 percent improvement - 19 points



VICTAULIC SOLUTION:

- Based on experience and involvement in LEED® projects, Victaulic can improve energy performance utilizing product efficiency, and installation management on systems installed with mechanical grooved products.
- Victaulic products and subsequent accessibility of piping systems encourages implementation of proper, comprehensive HVAC maintenance programs. This may result in the use of 15 percent to 20 percent less energy than systems allowed to deteriorate without regular maintenance and could reduce total system operating costs by as much as 50 percent.
- Installation of Victaulic products on prepared pipes does not require any incremental electrical energy, therefore optimizing energy performance.
- Victaulic products are easy to maintain due to a “union” at each joint, with no extra threaded or flanged unions required.
- The Victaulic versatile grooved piping system is effective on a variety of piping systems, including the promotion of lighter wall pipe on a variety of applications. Lighter wall pipe can provide five to 10 percent more cross-sectional flows than welded pipe. Pipe couplings and fittings are designed to minimize friction, improve throughput and thus reduce power requirements at the pump.

Ozone Depletion

Requirement – Reduce ozone depletion and support early compliance with the Montreal Protocol by installing base building level HVAC, refrigeration and fire suppression systems that do not contain HCFCs or Halons.

VICTAULIC SOLUTION:

- The Victaulic Vortex Fire Suppression system is built on more than 85 years of innovative product development experience, extending the boundaries of existing technology. A standard fire suppression sprinkler will use 96 percent more water than the Victaulic Vortex system.
- Victaulic Vortex Fire suppression surpasses existing inert gas and mist system capabilities, without any ozone depletion. The homogeneous mixture of water droplets and nitrogen gas are propelled with enough energy to overcome the drag effect that limits the effectiveness of traditional water mist systems, while avoiding HCFCs or Halons.

Construction Waste Management

Requirement – Divert construction and demolition debris from disposal in landfill and incineration facilities, redirect recyclable recovered resources back to manufacturing process, and reusable materials to appropriate sites.



VICTAULIC SOLUTION:

- More than 75 percent of Victaulic fittings and couplings are dip coated, a process that creates less wasted paint, does not pose hazardous air pollutant (HAP) risks nor contains as many volatile organic compounds (VOCs) as spray processes.
- LEED® requires a VOC level of 250g/L to earn the point. Victaulic dip coating paint is 143.78g/L. Solvent based spray paints are 707.6g/L.

Thermal Comfort Design

Requirement – The purpose of thermal comfort is to provide a comfortable thermal environment that promotes occupant productivity and well being.

VICTAULIC SOLUTION:

- Victaulic provides a balancing valve system that enhances the overall project ventilation and air distribution flow.
- Balancing valves maintain a dynamic flow that enables the HVAC system to provide correct energy output.

Innovation in Design

Requirement – To provide design teams and projects the opportunity to achieve exceptional performance above the requirements set by the LEED® Green Building Rating System and/or innovative performance in Green Building categories not especially addressed by the LEED® Green Building Rating System.

VICTAULIC SOLUTION:

- For more than 85 years, Victaulic has met customer demands for innovative, superior green products, such as the environmentally friendly Victaulic Vortex fire suppression system, the only fire suppression system certified FM 5580.
- Victaulic has launched several hundred products such as its QuickVic® rigid couplings, which are assembled onto pipe without disassembling bolts, nuts and housings. This installation-ready, patented design reduces handling and speeds installation, thus saving precious construction time.

LEED® Accredited Professional (AP)

Requirement – To support and encourage the design integration required by LEED® to streamline the application and certification process.



- Victaulic is a member of various Green Building Councils throughout the world, such as USGBC, CAGBC (Canada) and SpainGBC. Victaulic collaborates with these organizations to make green buildings and designs accessible and understandable.
- Numerous Victaulic sales engineers are LEED®-AP certified – the mark of the most qualified, educated, and influential green-building professionals in the market.

Conclusion

Victaulic saves time and money and enhances sustainability, not only through the manufacture of the products themselves, but also through the Victaulic installation and maintenance processes. Victaulic may be involved in as many as 10 to 33 LEED® points, including three prerequisites that are essential to becoming certified. Using Victaulic products on your pipe system may ensure excellent opportunities for LEED® certification. Consult your local Victaulic LEED®-AP certified specialist to determine the best results on your next sustainable project.