





#### **VICTAULIC SOLUTION:**

- Victaulic uses a no-flame-joining method that reduces emissions of Particulate Matter (PM). In 2007, Victaulic couplings used on world projects instead of welding eliminated 145 metric tons of particulate matter, the equivalent of removing one millions cars from the road for a week.
- Victaulic can minimize job site waste through lean manufacturing (produce and ship only required materials), as well as coordinate deliveries according to the contractor strategy and schedule.
- Installation of Victaulic products on prepared pipe does not require any incremental electrical energy, therefore optimizing energy performance.
- Victaulic utilizes “Bag-and-Tag” process to manage waste and job site activity. Shipping to the contractor only required materials as needed reduces waste by eliminating over-order and product stockpiles on job sites.

## **Indoor Air Quality**

**Requirement – Reduce the risk to health associated with poor indoor air quality.**

#### **VICTAULIC SOLUTION:**

- Unlike welding that emits highly toxic pollutants, uses vast amounts of electrical energy and specialty gases, Victaulic flameless connections avoid impact on human safety and the environment.

## **Volatile Organic Compounds**

**Requirement – Recognize and encourage a healthy internal environment through the specification of internal finishes and fittings with low emissions of volatile organic compounds.**

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- Victaulic uses a no-flame-joining method that reduces emissions of Particulate Matter (PM). In 2007, Victaulic couplings used on world projects instead of welding eliminated 145 metric tons of particulate matter, the equivalent of removing one millions cars from the road for a week.
- More than 75 percent of Victaulic fittings and couplings are dip coated, a process that produces less wasted paint, does not pose hazardous air pollutant (HAP) risks nor contains as many volatile organic compounds (VOCs) as paints for spray processes.



## **Thermal Comfort/Zoning**

**Requirement – Ensure the use of tools that achieve appropriate thermal comfort levels. Encourage the provision of user controls, which allow for independent adjustment of heating/cooling systems within the building.**

### **VICTAULIC SOLUTION:**

- Victaulic provides a balancing valve system that enhances overall project ventilation and air distribution flow.
- Balancing valves maintain a dynamic flow that enables the HVAC system to provide correct energy output throughout a typical 24-hour period.

## **Reduction of CO2 Emissions**

**Requirement – Recognize and encourage buildings that are designed to minimize CO2 emissions associated with their operational energy consumption.**

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- Victaulic products and the subsequent accessibility of piping systems encourage 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.
- Victaulic joined pipe can be pre-fabricated and configured to lay flat in a truck bed, unlike prefabricated welded spools that are non-adjustable in the field.
- Victaulic can fit more material per truckload, equating to reduced transportation costs and carbon emissions.
- Victaulic eliminates rework, and the waste associated with rework, such as the need to over order or stockpile product replacements that drive up raw material and transportation waste.

## **Responsible Sourcing Materials**

**Requirement – Encourage the specification of responsibly sourced materials.**



#### **VICTAULIC SOLUTION:**

- Victaulic uses 90 percent recycled steel and ductile iron for its coupling and fittings, meaning 1,039 tons of steel are recycled at its facility in the United States per week.
- Victaulic conducts manufacturing with a recycling process that includes 100 percent of sand used in its casting process.

### **Construction Site Waste Management**

**Requirement – Promote resource efficiency via the effective and appropriate management of construction site waste.**

#### **VICTAULIC SOLUTION:**

- Victaulic has utilized a sustainable management policy for 85 years, by recycling sand and using recycled content in its manufacturing processes.
- Victaulic can minimize job site waste through lean manufacturing (produce and ship only required materials), as well as coordinate deliveries according to the contractor strategy and schedule.

### **Recycled Content**

**Requirement – Increase demand for building product that incorporates recycled content materials, therefore reducing impact resulting from virgin material extraction and processing. The minimum percentage for recycled materials is 10 percent for one point, and 20 percent for two points.**

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- Victaulic recycles 100 percent of its foundry manufacturing sand.

### **Noise Attenuation**

**Requirement – Reduce the likelihood of noise from new development affecting nearby noise-sensitive buildings.**



#### **VICTAULIC SOLUTION:**

- Victaulic mechanical joining systems do not contribute to background noise, and provide significantly higher productivity and reduced sound of piping systems installed with its products.
- Victaulic flexible couplings provide vibration attenuation in the following ways; pipe end separations, elastomer gaskets and ductile iron housings.
- Victaulic mechanical grooved pipe systems deliver unsurpassed vibration isolation and sound attenuation characteristics.

## **Innovation**

**Requirement – Provide additional recognition for a procurement strategy, design feature, management process or technological development that innovates in the field of sustainability, above and beyond the level that is currently recognized and rewarded within standard BREEAM issues.**

#### **VICTAULIC SOLUTION:**

- Victaulic has launched several hundred products such as 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.
- 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.

## **Conclusion**

Victaulic saves time and money and enhances sustainability, not only by the use of its products themselves, but through the promotion of proper installation and maintenance processes. By avoiding welding, and recycling both sand and raw materials needed for manufacturing, Victaulic shares BREEAM objectives. Victaulic products may be involved in as many as 42 BREEAM points. Consult your local Victaulic representative on the proper use of Victaulic products to maximize results on your next sustainable building project.