

# *TruFire Walls*™



When Fire Containment Is  
Absolutely Imperative



Available Exclusively Through

**Oldcastle**® Enclosure Solutions

Available Exclusively Through



## The Perfect Fire Storm

A power substation contains all of the ingredients required to generate the perfect fire storm. A typical transmission transformer bank consists of three or more transformer tanks, each containing 10,000 to 45,000 gallons of mineral oil. The initial spark is likely to come from electric arcing inside the tank, which also generates heat and pressure high enough to rupture the tank. Oxygen immediately rushes into the tank causing the oil within the tank to violently explode, creating a blast of intense radiation, flying shrapnel, and flaming oil. The effect of the blast is instantaneous and has been documented to ignite other transformers more than 60 feet away from the initial fire.

## Assets Worth Protecting

The replacement cost of a typical large transformer is approximately \$1.5 to \$2.5 Million per Phase. However, the higher cost by far is the replacement energy which must be purchased from the spot market at premium prices.



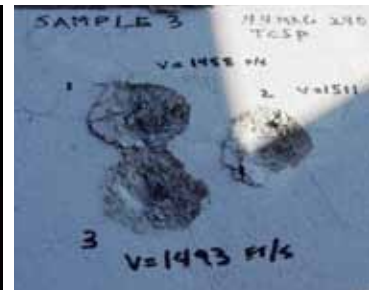
## Certified 4 Hour Fire Rating

- Certified by Southwest Research Institute per ASTM E-119 and compliant with IEEE Std 979, IBC, CBC, UBC construction codes.
- Surpassed both the required 4-hour fire exposure test and the 45 psi water jet blast test at 1,960 F.



## Ballistic Impact Resistant

**TruFire Walls™** have sufficient impact resistance to survive shrapnel impingement and are capable of stopping a 44 Magnum ballistic projectile with no through penetration, which is equivalent to UL Standard 752 rating.



## Built To Take The Heat

**TruFire Walls™** exceed Industry standards and construction codes. We are committed to providing our customers with the most effective high temperature and long duration fire containment walls.

When fire containment is absolutely imperative, TruFireWalls™ are your solution. TruFire Walls have sufficient impact resistance to survive shrapnel impingement and are capable of ballistic impact resistant. Built to take the heat: surpassed both the required 4 hour fire exposure test and the 45 psi water jet blast test at 1,960 degrees F.



## **Simple & Quick Installation**

- Results in significant cost savings due to grooved columns and slide-in panels that allow construction of one wall in one day or less.
- Built from prefabricated components, with standard tools. No special training is required.
- Lightweight panels/columns allow for quick assembly with low capacity boom trucks.
- Rapid precast fabrication method results in lightweight, easy to transport components.
- Component design allows for quick wall disassembly during transformer maintenance.



## **Easily Adapted to Interior or Exterior Applications**

- Unique refractory design economically meets all thermal and mechanical requirements needed to withstand a long duration fire.
- Applicable to substations with different wall configurations and dimensions.
- Easy and safe to adjust in the field without requiring special tools.
- Field proven refractory and reinforcement materials are highly superior to concrete and other cements.



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