



STAHLIN NON-METALLIC ENCLOSURES

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V-Blox panel mounted lightning and surge protection products fights costly damage with an enclosure that stands strong against nature's power

THE SITUATION

Lightning is a capricious, random and unpredictable natural event. When lightning strikes a power line it can travel along the line and enter a building's wiring system, causing a power surge. Damage from electrical transients, or surges such as lightning, is one of the leading causes of electrical equipment failure. Electrical transients are short duration, high-energy impulses imparted on the normal electrical power system whenever there is a sudden change in the electrical circuit. Surges can also come from normal utility switching operations, or unintentional grounding of electrical conductors (such as when an overhead power line falls to the ground). Surges may even come from within a building or facility from fax machines, copiers, air conditioners, elevators, motors/ pumps, or arc welders, to name a few. In each case, the normal electric circuit is suddenly exposed to a large dose of energy that can adversely affect the equipment being supplied power.

The National Lightning Safety Institute estimates on an annual basis lightning causes more than 26,000 fires in the United States, with damage to property in excess of \$5-6 billion. Replacing buildings and equipment, as well as repairing disruptions to business operations, incurs considerable expense. Fortunately, most losses caused by lightning strikes can be prevented by installing proper lightning protection systems. Surge protection properly sized and installed is highly successful in preventing equipment damage, especially for sensitive electronic equipment found in most equipment today. All V-Blox panel mounted lightning and surge protection products not only stop surges and lightning from doing damage to downstream electrical equipment, they are also warranted for 15 years with a guarantee for repair or replace of any damaged equipment up to \$25,000 per electrical panel.

THE CHALLENGE

When V-Blox Corporation began researching the availability of enclosures to house their control systems, they knew a key requirement was the ability to pass UL fault current testing. A unit passes evaluation if it remains intact after being subjected to a catastrophic short circuit with the potential to cause a major breakdown of the electrical components. All V-Blox units are UL/CUL listed per UL 1449 2nd Edition.

THE SOLUTION TO THE CHALLENGE

V-Blox needed to select an enclosure to restyle their product line. They ultimately chose the Stahlin DuraBoxx™ series.

DuraBoxx™ enclosures are molded from a composite fiberglass thermosetting material, helping to ensure the broadest range of chemical resistance, strength, lightweight, flammability, safety, sound dampening and proper heat transfer. DuraBoxx™ enclosures also offer great flexural strength, impact resistance, sunlight resistance and compression strength in a soft radius edged, cosmetically pleasing product. Plus, these enclosures are Type 4X and 6P NEMA rated, ensuring that they would pass the UL specific fault current test.

The Stahlin DuraBoxx™ Series was developed for extreme ruggedness, sleek design, and shallow depths. These enclosures are designed for rugged durable performance in both commercial and industrial indoor and outdoor environments such as mining, oil, gas, wastewater treatment, and petro-chem. Also, because of their pleasing aesthetics and flush cover design they are well suited for high-end electronic applications such as wireless communications and operator interfaces.

DuraBoxx™ enclosures meet all applicable industry standards including: IEC 529 IP66, IP67 and IP68 as designated; UL/cUL 50/508 1, 3, 3S, 4X, 12, 6 and 6P as designated; NEMA 250 1, 3, 3S, 4X, 12, 6 and 6P as designated. DuraBoxx™ features a flammability rating of UL 94 V0. These enclosures are self extinguishing and non-halogenated.

David Mulvaney
President, V-Blox Corporation

FOR ADDITIONAL INFORMATION:

www.v-blox.com
www.stahlin.com

REFERENCES:

<http://www.lightningsafety.com/>



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