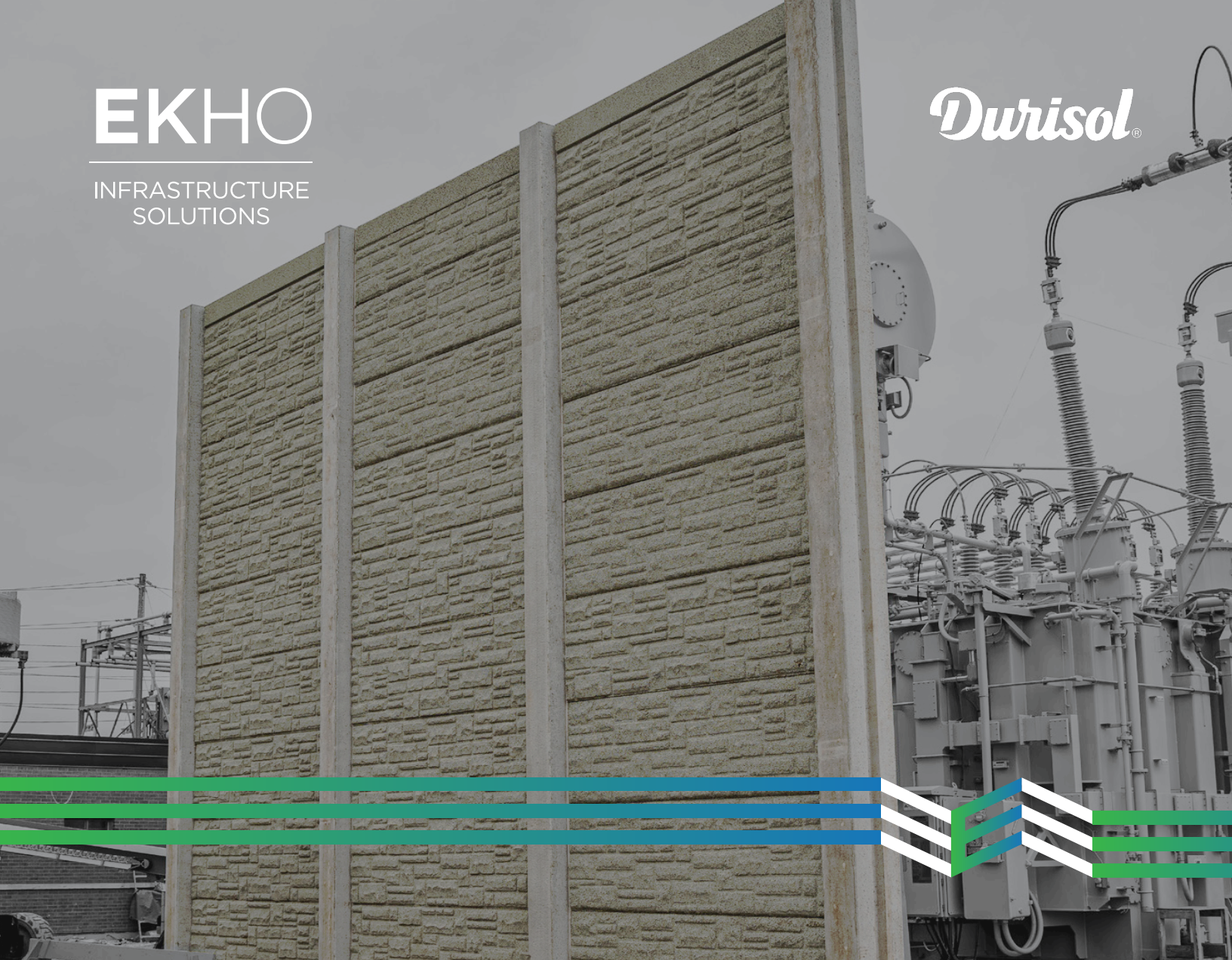


**EKHO**

INFRASTRUCTURE  
SOLUTIONS

*Durisol*<sup>®</sup>



# FIRE SEPARATION WALLS & ENCLOSURES

An integral piece of the fire suppression  
and control system at utility substations.

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# EKHO Fire Rated Barriers



We all take electricity for granted. It is not until we experience an outage, that we stop to realize its true impact on our daily lives.

An unfortunate reality, a major cause of outages are from transformer fires. As your utility solutions provider, we can help to keep the transmission system safe from costly repairs and outages.

Serving world-class power distribution providers for decades, we are proud partners of utility owners and their contractors across North America.

Transformers demand a specialized fire suppression solution to control fires safely within high-voltage areas. The EKHO Fire Rated Barriers offer a higher margin of safety over traditional precast barriers by containing and preventing the spread of fire.

## Meets Industry Requirements

- Tested to ASTM E84-10 and CAN/ULC S101
- Compliant with the IEEE 979
- Meets NFPA 850 & 851 Code Requirements
- Hose stream tested
- 2 hour and 4 hour fire rating available

## EKHO Fire Rated Walls are ideal for high-voltage electric substations.

### ✓ Public Appeal

Panels come in a variety of architectural textures, patterns and colors that will fit in any neighborhood.

### ✓ Wall varieties for any range of architectural design

from standard precast concrete texture and pattern, to more intricate cast custom panel work – we can match any neighbourhood aesthetic.

### ✓ Ease of Installation

Modular post and panel system as easy to assemble as they are to disassemble during transformer repair and maintenance.

### ✓ Quieter Surroundings

Alleviate noise concerns by reducing noise with reflective or absorptive noise attenuating panels.

### ✓ Engineered to Last

Our walls have been in continuous service since 1977 and have been tested to withstand multiple fires without needing to be replaced.

### ✓ Non-conductive

Excellent dielectric properties.

### ✓ True Engineering Partners

Our design and engineering team will ensure you have a wall design that limits underground disturbances providing ready-grade beams, or longer wall spans, and continuous support throughout.



Part of the Community



Fire Protection + Noise Mitigation

## PRECAST FIRE WALLS

Concrete fire containment for electrical transformers that stop the spread of fire.

## DURISOL® FIRE WALLS

Prevent reverberation between the walls by using noise absorptive system

### Design Details

- Designed with thermal caulking at joints
- Fire rated posts
- Panel thickness 8 inches
- Ballistic resistance meeting UL 752 level 9 (30 caliber armor piercing) and level 10 (50 caliber ball ammunition)
- Bolted connections at the base allow for removal of the wall in case transformers must be removed and replaced
- Posts can be fitted with fire resistant post base plate covers

### Inlaid brick pattern precast to blend with neighborhood



### Design Details

- Wall heights:** up to 43ft (13m)
- Post spacing:** 15ft (4.56m) from center-to-center
- Post type:** Concrete (for fire-rated) or galvanized steel
- Typical post footings:** available in either continuous foundation style or pier foundation to limit underground disturbances
- Precast panels:** 15ft (4.57m) long by 18-48in (0.46-1.22m) high
- Noise absorption:** Double-sided or single-sided absorptive panels available

Electrical transformers radiate a low frequency hum at 120 Hz (two times the 60Hz AC power frequency) and harmonics at 240 Hz, 360Hz, 480 Hz, etc. Our Durisol Walls perform as noise barriers to block the direct propagation path from the transformer to the community.



**Durisol® is the first absorptive noise wall products in North America.**

A proprietary name for the durable, lightweight and cementitious/wood composition product utilized in noise wall panels to achieve an 0.70 – 0.90 NRC rating.

*Durisol*<sup>®</sup>

# FIRE SEPARATION WALLS & ENCLOSURES

# EKHO

INFRASTRUCTURE  
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**NPCA**



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