



valmont 
UTILITY

Substation Protection

SECURED STRENGTH IN SOUND, EXPRESSION AND DEFENSE

Protecting the nation's electrical grid has been a priority for years. However, recent global unrest and new types of threats reshape the priority of addressing the security of the electrical grid. The nation's substations interconnect the grid, which makes this equipment a key target to those who wish to impair our nation. Substation assets can be well over 50 years old and many are situated in major urban areas, new areas and open areas posing unique challenges to secure every asset. This realization has driven FERC and the nation's utilities to find a new means to heighten security of these structures.

Along with intensifying security, urban communities seek to re-energize the vitality of their surroundings by altering the appearance and diminishing sound nuisance of substations. The innovation to protect with appeal is quickly gaining traction as utilities, economic development, land developers and architects are working alongside to make substations become one with the environment.



To meet the ever-growing demand for safeguarding substation assets, Valmont® Utility introduces one of the most versatile and appealing product lines seen in the industry, combining functionality and asset protection with visual appeal. Whether it's brute force containment, sound barrier protection or improved aesthetics, the Valmont Substation Protection series provides the answer.

VALMONT SUBSTATION PROTECTION SERIES INCLUDES:

- PicPerf® aesthetic steel structures
- Valmont Fortress™ steel fencing
- AcoustaWall™ sound barriers by Shakespeare

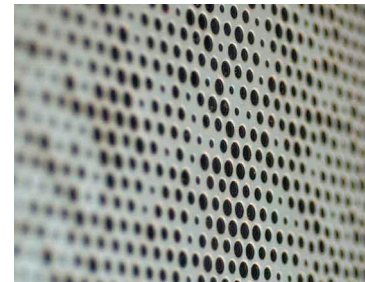


Transform the Environment

PicPerf®

The newest offering from Valmont Utility for urban substation installation utilizes the PicPerf® aesthetic technology. Created in metal, images take life using hundreds, sometimes thousands of drill holes of three to four different sizes and can be produced using up to 15 different tones. Combined with the ability to design structures and foundations to utility industry standards providing Line of Sight level asset protection and “curb appeal” allows a substation to be constructed in the most affluent neighborhoods or the most modern downtown areas.

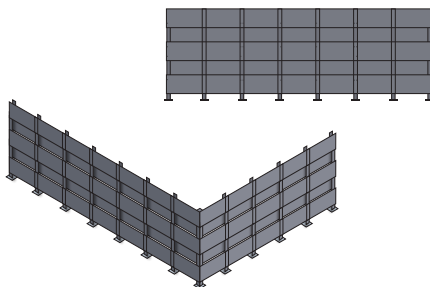
- Allows ventilation and airflow
- Provides security, allowing vision from inside to out
- Better wind resistance than traditional “solid” signage
- Steel, Galvanized Steel, Aluminum and Stainless Steel materials
- Powder Coated, Anodized, Raw and Finished finishes
- PicPerf application can include:
 - Car park screens
 - Balustrades
 - Sunscreens
 - Signage
 - Partitions
 - Artwork/Décor
- Provides shade protection from the sun, reducing energy consumption



A Secure Advantage

Valmont Fortress™

- Steel, composite or concrete fencing options to protect critical substation assets from terrorism and vandalism.
- Line of Sight concealed protection method removes the visibility of the target, providing the most cost-efficient form of security available.
- Serves as a sound barrier to reduce substation noise generation in areas with considerable electricity demands, particularly in urban neighborhoods where residents desire diminished substation sound and enhanced visual appeal.



Reduce Sound

Shakespeare AcoustaWall™

The AcoustaWall™ non-conductive fence system provides safety and security around the perimeter of transformer yards and other properties with installed utility assets. The fiberglass wall deters would-be vandals, excludes wildlife and hides unsightly equipment from growing neighborhoods. Lightweight and versatile, it can be field-modified to address all types of terrain.

- Safe, non-conductive fiberglass posts and planks
- Attractive, available in a range of UV-resistant colors
- Can be modified and cut in the field
- Simple, fast, inexpensive installation – little or no heavy lifting equipment required
- Spans up to 18 feet, heights up to 24 feet
- Supports and panels will not rust
- Effective noise barrier and may be filled with recycled crumb rubber for additional effectiveness against noise upon request
- Low maintenance over life of product