Wireless Towers





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STRUCTURES

MICROFLECT™ SELF SUPPORTING TOWERS

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MICROFLECT

The optimal choice for supporting microwave dishes and other heavy-duty wireless communication loads, Microflect™ self supporting towers feature a robust construction, which meet or exceed the latest ANSI/TIA standards.

Featuring a X-braced structural design and strong pipe legs, Microflect towers are also ideal for sites which support essential services and emergency communications gear.

- Ideal for a wide variety of applications, loads and environments.
  - Light to heavy duty microwave applications.
  - Radar and other custom structures.
  - Customer types include public agencies, utilities, FAA and others.
- Pipe diagonals bracing to accommodate heavy antenna loading.
- Three or four leg designs.
- Platforms and catwalks available for almost any elevation.
- Step bolts, climbing ladder or internal/external stairways for climbing.
- Hot-dipped galvanized to ASTM 123 specifications after fabrication.
- Welded by AWS D1-1 certified welders in an AISC certified plant.
- Licensed engineer sealed prints (P.E./S.E.) available for all 50 states.
- Offered in heights up to 500 feet.

PIROD® SELF SUPPORTING TOWERS

Featuring a durable solid-rod lattice construction, PiRod® self supporting towers provide excellent corrosion resistance for long-term performance and superb structural integrity.

The uniform sections ensure quick assembly in the field, which may reduce installation expenses. Further, the sturdy design is inherently maintenance-friendly, as personnel can quickly scale the lattice construction. From initial installation throughout the entire life cycle, PiRod self supporting towers are a smart wireless tower investment.

- PiRod custom-engineered towers are an ideal choice for a variety of of applications, loads and environments. A great choice for heavy loads and windy, icy or other extreme environments.
- Top-quality solid-steel rods offer superior corrosion resistance.
- Provides low wind drag while delivering exceptional strength.
- Hot-dipped galvanized to ASTM 123 specifications after fabrication.
- Standard hardware includes ASTM A-325 high-strength bolts, heavy-hex nuts and lock washers.
- Welded by AWS D1-1 certified welders.
- Licensed engineer sealed prints (P.E./S.E.) available for all 50 states.
- Heights up to 600' and base width up to 60'.

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PIROD

SELF-SUPPORTING TOWERS

Engineered for excellent value and design flexibility, Valmont's self supporting towers employ a variety of components to configure reliable structures which meet the needs of many of today's wireless tower installations.

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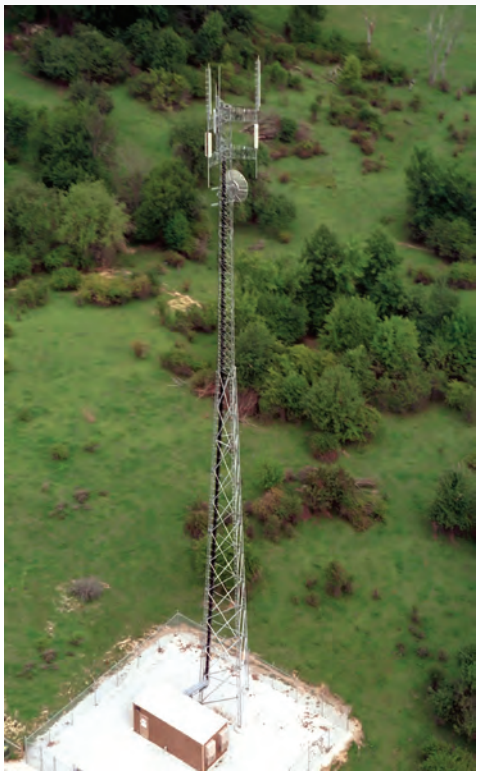
For optimal customer value, Valmont engineers select single-member legs or a combination of single-member and truss-style legs, depending on the tower mission and customer specifications. Depending on load and environmental requirements, tubular-steel, solid-steel or a combination of tubular- and solid-steel components are integrated into the structure's design.

- Durable materials in a flexible design for long tower life at a great price.
- Single member sections reduce ice accumulations and minimize wind loads.
- Efficient shipment, storage and assembly further enhance customer value.
- Component sections are pre-engineered and detailed to ensure quick drawing turn-around which may expedite local permitting processes.
- Heights up to 300' are available.



PIROD® GUYED TOWERS

PiRod® guyed towers are custom-engineered and manufactured to meet a variety of application requirements and are available in all-welded and knock-down section configurations.

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ALL-WELDED TOWERS feature solid rod construction. Face widths of 36", 48" and 60" come with foot-pad connections while face widths of 18", 24", and 30" feature pin and cup connections. Tower heights up to 1,000 feet are available.

KNOCK-DOWN TOWERS feature foot-pad connections with solid-rod construction. They are available with a 48", 60", or 90" face width and in heights up to 1,500 feet.

Valmont's experienced engineering team utilizes proprietary computer-aided design software to craft structures known for their durability and structural integrity. During the design process, the Valmont team carefully analyzes specified needs and builds in the capabilities to handle the following considerations:

- Terrain, wind and ice-loading site conditions.
- Strength and versatility criteria.
- Antenna and transmission line mounting specifications.
- Climbing provisions and safety equipment needs.
- Future loading elements due to impending co-location installations.
- Licensed engineer sealed prints (P.E./S.E. available for all 50 states).

MONOPOLE TOWERS

Combining engineering expertise, high-quality manufacturing practices and an economical slip-joint design, Valmont's 18-sided monopole towers are available in heights up to 250 feet.

These poles can be custom-designed for a variety of single or multi-user configurations and in a wide variety of finishes to meet local aesthetic and zoning requirements.

- Each shaft section is a constant-tapered hollow steel section up to 53 feet in length.
- Slip joints are designed with a minimum of 1-1/2 times the pole diameter at the splice.
- Pole shafts are fabricated from low-alloy, high-strength steel.
- All poles are hot-dipped galvanized after fabrication per ASTM A-123.
- Foundation designs are included per customer-furnished soils report.
- A formal stress analysis and drawing package is provided for building permit submissions.

PORTABLE BASES

- Valmont's portable base poles are suitable for temporary or semi-permanent installations and permanent sites where a conventional foundation may be impractical.
- Portable base poles may simplify zoning and permitting processes for fast site deployment.
- The base and monopole can be erected typically in a single day on crushed stone or blacktop to level the surface as well as provide adequate drainage.

DISGUISED WIRELESS STRUCTURES

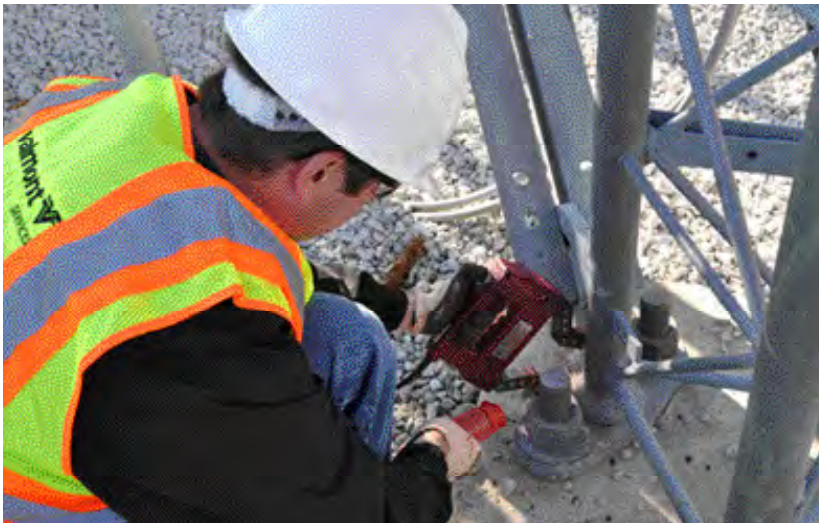
As an originator in disguised wireless structures, Valmont offers creative solutions designed to blend in with the landscape and surrounding environment.

Our popular Flag pole, Pine Tree pole, Palm Tree pole and related structures combine an aesthetically pleasing design with the latest technological advancements.

VALMONT ENGINEERING SERVICES

Smart wireless tower owners seeking to expand the capabilities of their existing infrastructure can harness the industry intelligence of Valmont's in-house engineering expertise.

Valmont's professionals perform analysis services on existing Microflect, PiRod and Valmont towers and monopoles to help owners determine load capabilities for communications equipment expansion, retrofits and upgrades. In addition, on-site mapping services are available upon request, providing tower owners with clear reporting of the various existing components installed on a wireless tower. Also, our technical team can perform on-site, non-destructive testing to detect the impact of corrosion, wind-induced fatigue, or other factors which will determine a tower's current-state structural integrity.



VALMONT SITE PRO 1®

Valmont Site Pro 1® offers an extensive selection of high-grade wireless cell tower parts and wireless rooftop parts.

Customers may choose from over 500 product categories and more than 1400 individual wireless cell tower parts including coax cable runway components, antenna mounting gear, cables, ladders, ice bridge kits, entry panels, coax accessories, grounding solutions, weather proofing gear and much more.

Valmont Site Pro 1 offers same day shipping from any one of five fully stocked US distribution centers.

For more information on the Valmont Site Pro 1 product offering, and to request a components catalog, call 888-438-7761 or visit www.sitepro1.com.

SITE PRO 1

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Conserving Resources. Improving Life.

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