

PIM Shield® Product Guide

The Industry Standard in PIM Mitigation

PIM Shield® by ConcealFab® delivers trusted passive intermodulation (PIM) mitigation solutions that improve network performance, reduce interference, and simplify wireless infrastructure deployments. Backed by Valmont® Industries and built on ConcealFab's proven field expertise, PIM Shield provides the products, engineering support, and testing capabilities needed to detect, isolate, and prevent interference across new builds, upgrades, and retrofit projects.

Combining RF-safe products with industry-leading testing and real-world field validation, PIM Shield offers end-to-end solutions to identify and mitigate PIM at the source. The portfolio includes interference-hunting tools, cable management systems, RF-blocking materials, coatings, tapes, hardware, and installation accessories — all engineered for reliable performance in demanding field environments.

Designed and manufactured in the USA at ConcealFab's Colorado Springs facility, PIM Shield products are backed by decades of engineering expertise, customer collaboration, and established radiated PIM testing standards trusted across the wireless industry.

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Validated Performance

Valmont® Telecom's PIM Shield® product line is backed by rigorous in-house testing designed to ensure reliable PIM mitigation performance in real-world conditions.

Radiated PIM Testing

We verify RF performance across concealment materials using an in-house anechoic chamber. Testing spans from 1 GHz to 40 GHz and measures both near-field and far-field transmission loss on radome materials, reinforcing ConcealFab's position as a leader in concealment technology.

Material Performance

We characterize the RF performance of concealment and barrier materials from 1 GHz to 40 GHz in the same anechoic chamber. Capabilities include both near-field and far-field transmission-loss measurements, as well as antenna-pattern measurements. We also utilize 28- and 39-GHz Anokiwave phased-array antennas to measure antenna pattern performance at mmW frequencies.

Environmental & Durability Testing

PIM Shield® products are engineered for long-term outdoor deployment. We validate UV stability, temperature cycling, mechanical strength, and weather resistance to ensure consistent low-PIM performance across a wide range of environmental conditions, from extreme heat to sub-zero temperatures and high wind loads.





PIM Interference Overview

Passive intermodulation (PIM) is a form of interference created when two or more downlink signals at a cell site mix at non-linear objects in the RF path. Any loose metal-to-metal contact or dissimilar metal junction in front of, or in the reactive near field behind, an antenna can generate PIM. The resulting intermodulation products fall within the uplink receive band, raising the noise floor and reducing the cell site's capacity and coverage.

Common Sources of PIM

PIM sources are found throughout tower and rooftop environments. Metal objects in front of antennas, such as cable trays, air-handling units, skylights, and vent pipes, often have loosely touching sheet-metal surfaces that cause interference. Roofing materials also pose hidden risks, including overlapping steel deck members, insulation fasteners, and sheet metal flashing beneath the roof membrane.

Galvanic corrosion is one of the most prevalent causes. Stainless steel and galvanized steel sit at opposite ends of the galvanic series, forming small corrosion pockets wherever they touch. While structurally harmless, these pockets generate significant PIM near base station antennas. The same mismatch occurs at hose clamps, angle adapters, strut fasteners, and metal snap-in cable hangers, all of which are deployed by the thousands across wireless infrastructure.

PIM Mitigation

There are four primary strategies for addressing external PIM. Eliminate galvanic mismatches by using the same metal and finish on both sides of every junction. Ensure high contact pressure at metal-to-metal junctions while avoiding large contacting surfaces. Insulate junctions where contact pressure or material matching cannot be guaranteed. And when none of these methods are feasible, install an RF barrier material to block RF energy from reaching the non-linear junction.

The PIM Shield® product line from Valmont® Telecom provides purpose-built solutions for each of these strategies, from barrier materials and conductive coatings to low-PIM cable management hardware and non-metallic support systems.



Featured Products

Explore our latest PIM Shield® innovations, the products leading the way in passive intermodulation mitigation and cell site performance. From next-generation snap-ins and mounting systems to advanced diagnostic tools, these are the solutions setting the standard for low-PIM infrastructure.



PIM Shield® Cable Support Blocks

NEW

PIM Shield® Cable Support Blocks provide a low-PIM solution for securing RF, fiber, power, and RET cables in high-risk PIM zones. The two-piece clamshell design features insulated mating surfaces and mounts using 3/8-inch Threaded Rod Kits connected to low-PIM supports (sold separately).

- Low-PIM cable management for high-risk PIM zones
- PIM Performance: IM3 <-100 dBm (tested per IEC 62037-8, near field test, 2x 20W test tones)
- UV-stable, glass-filled Polypropylene construction
- Operating temperature range: -40°C to +70°C
- Available in 10 sizes for cables ranging from 1/4" to 1/5/8" (4mm to 54mm)
- 10 Cable Support Blocks (20 halves) per package



SKU	Cable Diameter
PSCSB-4-10	1/4" (4 – 6 mm)
PSCSB-14-10	1/4" (6 – 8 mm)
PSCSB-38-10	3/8" (10 – 12 mm)
PSCSB-12-10	1/2" (15.5 – 17.5 mm)
PSCSB-58-10	5/8" (19 mm)
PSCSB-23-10	23 mm (22.5 – 24 mm)
PSCSB-78-10	7/8" (27 – 29 mm)
PSCSB-35-10	35 mm (34 – 36 mm)
PSCSB-114-10	1-1/4" (39 – 42 mm)
PSCSB-158-10	1-5/8" (50 – 54 mm)

PIM Shield® RF Safety Sign Supports

NEW

The PIM Shield® RF Safety Sign Supports provide a low-passive-intermodulation method for securing metal or plastic RF Safety signs in high-risk PIM zones and high-power rooftop areas. By replacing conventional metal sign hardware with low-PIM components, it helps keep required RF safety signage in place without introducing a new source of passive intermodulation near base station antennas.

- Low-PIM solutions for securing RF Safety Signs in high-risk PIM zones and high-power rooftop sites
- Meets FCC requirements for RF safety signage at cell sites
- PIM Performance: IM3 <-100 dBm (tested per IEC 62037-8, near field test, 2x 20W test tones)
- Multiple mounting options: flat surfaces, round members, or freestanding barrier stands
- UV stable materials including glass filled Nylon, Polyurethane, and Acetal components
- Compatible with both metal and plastic RF safety signs
- Available as standalone supports, complete mounting kits, and freestanding sign stands



SKU	Description	Weight
901031	PIM Shield RF Safety Sign Support, Qty. 10	9.9 lbs.
901034	PIM Shield RF Safety Sign Support Kit	3.4 lbs.
901706	Kit, RF Safety Sign Support, Round or Flat Mounting	1.25 lbs.
901607	RF Safety Sign Stand	9 lbs.

PIM Shield® Universal Barrel Cushions NEW

PIM Shield® Universal Barrel Cushions fit inside PIM Shield® Hybrid Snap-Ins, Cable Support Blocks, and other mounting accessories to adapt a single mount to smaller cable diameters, providing secure support for fiber, power, grounding, RET, and other cables. The arc-shaped inner ribs grip the cable firmly to hold it in place, and the cushions are available in five outside-diameter sizes from 1/2" to 2-1/4".

- Designed for use with PIM Shield® Hybrid Snap-Ins, Cable Support Blocks, and other mounting accessories
- Arc-shaped inner ribs grip a variety of cable diameters
- Available in sizes for cables ranging from 1/2" to 2-1/4"
- Supports fiber, power, grounding, and RET cables
- One mount fits multiple cable sizes by swapping cushions

SKU	Outside Diameter (in)	Qty.	Weight
PSBCU-12-10	1/2"	10	1 lb.
PSBCU-78-10	7/8"	10	1 lb.
PSBCU-114-10	1-1/4"	10	1 lb.
PSBCU-158-10	1-5/8"	10	1 lb.
PSBCU-214-10	2-1/4"	10	2 lbs.

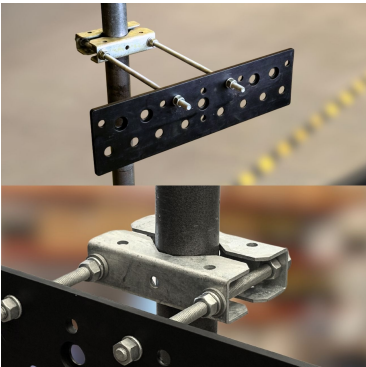


PIM Shield® Hybrid Support Bars & Pole Clamps NEW

This low-PIM hybrid cable support bar and steel pole clamp solution is engineered to maximize PIM mitigation. They are highly configurable and can be used in a variety of applications. The combination of a polymer cable support bar with galvanized steel pole clamps delivers low-PIM performance at the cable attachment point and high strength at the mounting point.

- High-performance polymer and galvanized steel hybrid construction
- Remains stable under wind and vibration
- Mounts to round legs 2-3/8" to 4-1/2" diameter
- 3/4" holes accept low-PIM snap-ins, best performance when paired with our Gen 2 Snap-Ins

SKU	Detail	Range	Positions	Weight
901932	Extra Bar	N/A	13	1.5 lbs.
901933-01	Standard Range	10"	13	3 lbs.
901933-02-3	Extended Range	18"	13	3.75 lbs.
901934-02-3	Extended Range (3 Pack)	18"	26	5.1 lbs.



PIM Shield® Polymer Support Bars & Pole Clamps NEW

This low-PIM polymer cable support bar and polymer pole clamp solution is engineered to maximize PIM mitigation. They are highly configurable and can be used in a variety of applications.

- High-performance polymer construction
- Low weight, remains stable under wind and vibration
- Mounts to round legs 2-3/8" to 4-1/2" diameter
- 3/4" holes accept low-PIM snap-ins, best performance when paired with our Gen 2 Snap-Ins

SKU	Detail	Range	Positions	Weight
902053-01	Standard Range	10"	13	3 lbs.
902053-02	Extended Range	18"	13	3.75 lbs.
902055-02-3	Extended Range (3 Pack)	18"	26	5.1 lbs.



PIM Shield® Galvanized Threaded Rod Kits NEW

PIM Shield® Galvanized Threaded Rod Kits provide a low-PIM mounting solution for securing cables in high-risk PIM zones. To help prevent galvanic corrosion, galvanized threaded rod kits should only be attached to galvanized brackets or hardware.

- Low PIM performance
- Galvanized steel construction
- Available in 4-1/4", 7", and 9-1/2" lengths
- Sized for single, double, and triple stacks of Cable Support Blocks

SKU	Length	Stack Capacity	Qty.
PSCBH-01-10	4-1/4"	Single Stack	10
PSCBH-02-10	7"	Double Stack	10
PSCBH-03-10	9-1/2"	Triple Stack	10



PIM Shield® L-Angle Adapters NEW

PIM Shield® L-Angle Adapters are engineered to provide low-PIM cable accessory attachment points launching off existing structural L-members in high-risk PIM zones.

- High-performance polymer construction
- Available with or without 3/8"-16 threaded inserts for launching threaded rod or attaching 3/8" bolted hardware (sold separately)
- Can alternatively be mounted to various other steel profiles using acetal banding (sold separately)
- 3/4" holes accept low-PIM snap-ins, best performance when paired with our Gen 2 Snap-Ins

SKU	Detail	Qty.	Plastic Screws	Inclined Inserts	Straight Inserts
902186-10	2-Position	10	10	10	-
902200-10	2-Position with Aux. Threaded Inserts	10	10	10	10



PIM Shield® Gen 2 Snap-Ins NEW

PIM Shield® Gen 2 Snap-Ins deliver a major upgrade in both PIM mitigation and install speed for demanding RF environments. Molded from UV-stable, glass-filled polymer, they hold up outdoors while remaining inherently PIM-free at the cable interface. The Gen 2 design is built for effortless, one-handed, tool-free installation, with an expanded insertion zone that secures cables quickly and consistently across two available sizes.

- Designed to snap into support bars or compatible accessories (sold separately) that are 0.118"–0.160" thick with 0.71"–0.76" diameter mounting holes.
- UV-stable, glass-filled polymer (nylon) engineered to resist the breakage common in competitive designs.
- One-handed, tool-free installation with an expanded insertion zone
- Two sizes cover 4 mm to 17 mm cable diameters

SKU	Cable Diameter	Height	Length	Width	Qty.	Weight
PSPS-0411-10	4 - 11 mm	31 mm (1.22")	30 mm (1.18")	36 mm (1.42")	10	2.8 lbs.
PSPS-1017-10	10 - 17 mm	31 mm (1.22")	30 mm (1.18")	36 mm (1.42")	10	2.8 lbs.



PIM Shield® Button NEW

PIM Shield® Buttons provide a low-PIM cable routing solution for organizing RF, fiber, power, and RET cables in high-risk PIM zones near base station antennas. The patented body installs into standard 3/4-inch mounting holes without tools and creates a non-metallic routing point that keeps cables guided and separated, helping reduce the metal-to-metal contact that can contribute to PIM.

- Low PIM performance: IM3 <-100 dBm per IEC 62037-8 under dynamic stimulus
- Patented design fits standard 3/4" diameter holes
- UV-stable glass-filled nylon construction
- Operating temperature range: -40°C to +70°C
- Compatible with PIM Shield® Cable Support Straps and Support Bars (sold separately)

SKU	Color	Qty.	Weight
901738-10	Black	10	0.75 lbs.



PIM Hunting

Field tools for precisely locating and diagnosing external PIM sources at cell sites. Includes test probes and connector cleaning tools that help technicians identify interference before applying mitigation.



Connector Cleaning Tool

The connector cleaning tool is custom designed to remove the PIM-generating metal dust and debris that builds up inside RF connectors and can degrade site performance. The non-metallic tool is radiused on one end and cylindrical on the other, letting a standard alcohol wipe be pushed through every area of both male and female connectors without scratching or contaminating the contact surfaces.

- Rugged, glass-filled nylon design
- Use with standard alcohol wipes
- Enables ability to clean narrow spaces inside RF connectors
- Works well with 7-16, 4.1-9.5 and 4.3-10 DIN connectors
- Two-ended design works on both male and female RF connectors
- Non-metallic build avoids scratching or contaminating connector contact surfaces

SKU	Qty.
900644-10	10
900644-100	100



PIM Test Probe

Our PIM test probe connects to PIM test and measurement equipment to help technicians pinpoint the exact location of external PIM sources in the field. At 35 inches long, it lets a single operator reach and sweep suspect areas across the 600 MHz to 4000 MHz range, while its Type N (female) connector mates with standard test equipment. Once a source is located, ConcealFab® mitigation materials can be applied at that point to help reduce PIM levels and improve site performance.

- 600 MHz to 4000 MHz frequency range
- Low PIM when exposed to RF radiation
- Rugged construction for field use
- Pinpoints external PIM sources so mitigation can be applied exactly where needed
- Connects to standard PIM test and measurement equipment

SKU	Frequency Range	RF Connector	Dimensions
007320-01	600 MHz to 4000 MHz	Type N (Female)	35" long, 1.9" diameter at probe tip



PIM Barriers & Absorbers

Products that block, absorb, or attenuate RF energy to prevent it from reaching PIM-generating junctions. Includes tape, roofing membranes, blankets, foil, and absorber kits designed for low-PIM performance.



PIM Absorber Kits

This product family includes comprehensive passive intermodulation (PIM) mitigation solutions for base station antennas. These low-PIM products work together as a modular system to suppress unwanted RF radiation from the front, back, and sides of antennas, helping technicians identify and isolate external PIM sources at cell sites.

- Low PIM performance tested to IEC 62037-8 standards
- Modular system allows flexible front, back, and side coverage configurations
- Designed for rapid field deployment at cell tower sites
- Durable construction with sewn nylon loops for secure panel positioning

SKU	Description	Weight
901728-BUNDLE	PIM Absorber Bundle, Large Antennas	55 lbs.
901728	PIM Absorber Front Blanket Kit for Large Antennas	28.5 lbs.
901125	PIM Absorber Kit, Back, 2-IN	17 lbs.
901162	PIM Absorber, Back, 1-IN	14 lbs.
901230	Absorber Kit Soft Case	7 lbs.



PIM Blanket Kits

Our PIM blankets are temporary RF barriers used during the PIM Hunting process to cover suspected external PIM sources and help technicians confirm and isolate interference at a site. Because they install and remove quickly, blankets can be repositioned as the search narrows, and they are available in multiple sizes from 30" x 30" up to 120" x 60".

- Useful assortment of PIM blanket sizes
- Rugged transit case included
- Simplifies transit of PIM blankets to / from site
- Protects PIM blankets while not in use
- Installs and removes quickly for reuse across multiple sites

SKU	Description	Transit Case	Weight
007640-KIT-101	PIM Blanket Kit, 2x 120x60, 2x 60x60, 2x 60x30, 2x 30x30	Small	76 lbs.
007640-KIT-102	PIM Blanket Kit, 3x 120x60, 2x 60x60	Small	79.5 lbs.
007640-KIT-103	PIM Blanket Kit, 4x 120x60	Small	79.5 lbs.
007640-KIT-104	PIM Blanket Kit, 8x 60x60	Small	79.5 lbs.
007640-KIT-201	PIM Blanket Kit, 4x 120x60, 4x 60x60, 4x 60x30, 4x 30x30	Large	142 lbs.
007640-KIT-202	PIM Blanket Kit, 6x 120x60, 3x 60x60	Large	140 lbs.
007640-KIT-203	PIM Blanket Kit, 5x 120x60, 5x 60x60	Large	134 lbs.



PIM Blanket

Our PIM blankets are temporary RF barriers used to suppress PIM sources during the PIM Hunting process.

- Low PIM
- >30 dB PIM attenuation typical
- Integrated tie-down loops
- Durable and weatherproof

SKU	Size	Weight
007640-120060	120" x 60"	16 lbs.
007640-060060	60" x 60"	5 lbs.
007640-060030	60" x 30"	5 lbs.
007640-030030	30" x 30"	3 lbs.



PIM Foil

Our PIM foil is a lightweight, temporary RF barrier used during the PIM Hunting process to suppress suspected PIM sources and help isolate interference at a site. Supplied on 18-inch and 36-inch wide, 100-foot rolls, it can be cut to length and applied over a suspect source in the field, then removed once the source is confirmed. A soft carrying case and a multi-roll field kit are also available.

- Low PIM
- Lightweight design
- Greater than 30 dB typical PIM attenuation
- Cuts to length for fast, targeted field application
- Soft carrying case and multi-roll field kit available

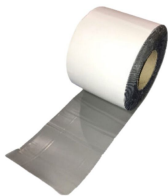
SKU	Description	Weight
900964-18-100	18" x 100' Roll	4.7 lbs.
900964-36-100	36" x 100' Roll	9 lbs.
901067	Soft Case	6.1 lbs.
900964-KIT-101	Kit with 36" Version (3), 18" Version (2)	43 lbs.



PIM Shield® Tape

Our PIM Shield® Tape is a permanent RF barrier installed directly over common PIM sources to reduce passive intermodulation and improve site performance quickly, without removing or replacing existing site hardware. It bonds to a wide range of surfaces, including metals, single-ply roofing, multi-ply roofing, concrete, brick, and wood, and is available in 6-inch and 12-inch widths in both white and black.

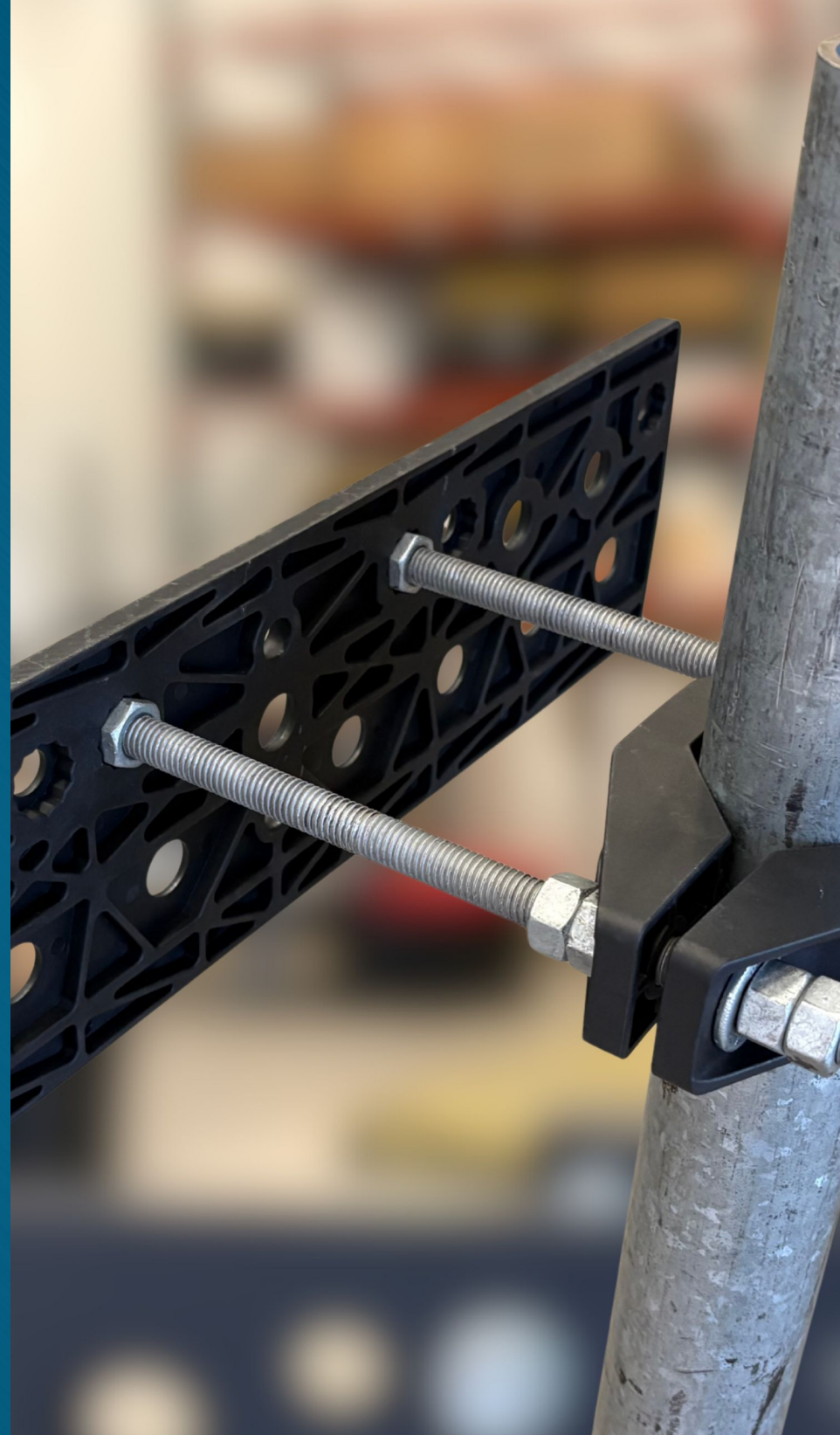
- Low PIM performance
- High RF attenuation
- UV-stable TPO outer layer
- High-tack synthetic resin adhesive
- Installs directly over existing PIM sources for fast mitigation



SKU	Size	Color	Qty.	Weight
008587-06-25-W	6" x 25'	White	4	30.1 lbs.
008587-06-25-B	6" x 25'	Black	4	30.1 lbs.
008587-12-25-W	12" x 25'	White	4	30.1 lbs.
008587-12-25-B	12" x 25'	Black	4	30.1 lbs.

Cable Management Systems

A complete ecosystem of low-PIM hardware for routing, securing, and organizing cables at tower and rooftop sites. Covers snap-in hangers, cable support blocks, mounting systems, threaded rod hardware, rail systems, and the installation tools needed to deploy them correctly.



PIM Shield® Universal Barrel Cushions **NEW**

PIM Shield® Universal Barrel Cushions fit inside PIM Shield® Hybrid Snap-Ins, Cable Support Blocks, and other mounting accessories to adapt a single mount to smaller cable diameters, providing secure support for fiber, power, grounding, RET, and other cables. The arc-shaped inner ribs grip the cable firmly to hold it in place, and the cushions are available in five outside-diameter sizes from 1/2" to 2-1/4".

- Designed for use with PIM Shield® Hybrid Snap-Ins, Cable Support Blocks, and other mounting accessories
- Arc-shaped inner ribs grip a variety of cable diameters
- Available in sizes for cables ranging from 1/2" to 2-1/4"
- Supports fiber, power, grounding, and RET cables
- One mount fits multiple cable sizes by swapping cushions

SKU	Outside Diameter (in)	Qty.	Weight
PSBCU-12-10	1/2"	10	1 lb.
PSBCU-78-10	7/8"	10	1 lb.
PSBCU-114-10	1-1/4"	10	1 lb.
PSBCU-158-10	1-5/8"	10	1 lb.
PSBCU-214-10	2-1/4"	10	2 lbs.



PIM Shield® Gen 2 Snap-Ins **NEW**

PIM Shield® Gen 2 Snap-Ins deliver a major upgrade in both PIM mitigation and install speed for demanding RF environments. Molded from UV-stable, glass-filled polymer, they hold up outdoors while remaining inherently PIM-free at the cable interface. The Gen 2 design is built for effortless, one-handed, tool-free installation, with an expanded insertion zone that secures cables quickly and consistently across two available sizes.

- Designed to snap into support bars or compatible accessories (sold separately) that are 0.118"–0.160" thick with 0.71"–0.76" diameter mounting holes.
- UV-stable, glass-filled polymer (nylon) engineered to resist the breakage common in competitive designs.
- One-handed, tool-free installation with an expanded insertion zone
- Two sizes cover 4 mm to 17 mm cable diameters

SKU	Cable Diameter	Height	Length	Width	Qty.	Weight
PSPS-0411-10	4 - 11 mm	31 mm (1.22")	30 mm (1.18")	36 mm (1.42")	10	2.8 lbs.
PSPS-1017-10	10 - 17 mm	31 mm (1.22")	30 mm (1.18")	36 mm (1.42")	10	2.8 lbs.



PIM Shield® Button NEW

PIM Shield® Buttons provide a low-PIM cable routing solution for organizing RF, fiber, power, and RET cables in high-risk PIM zones near base station antennas. The patented body installs into standard 3/4-inch mounting holes without tools and creates a non-metallic routing point that keeps cables guided and separated, helping reduce the metal-to-metal contact that can contribute to PIM.

- Low PIM performance: IM3 <-100 dBm per IEC 62037-8 under dynamic stimulus
- Patented design fits standard 3/4" diameter holes
- UV-stable glass-filled nylon construction
- Operating temperature range: -40°C to +70°C
- Compatible with PIM Shield® Cable Support Straps and Support Bars (sold separately)

SKU	Color	Qty.	Weight
901738-10	Black	10	0.75 lbs.

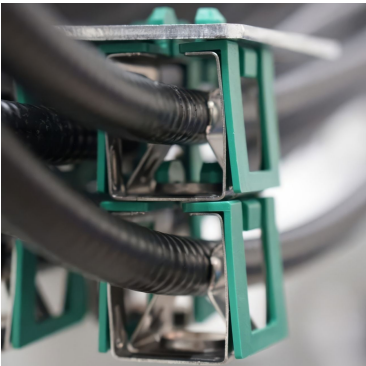


PIM Shield® Hybrid Snap-Ins

PIM Shield® Hybrid Snap-Ins provide a low passive intermodulation solution for securing RF, fiber, power, and RET cables in high-risk PIM zones. Their patented design adds insulation at key mating surfaces to help prevent the unwanted metal-to-metal contact that can contribute to PIM, while the snap-in body installs and re-positions quickly during adds and changes. Four sizes cover cable diameters from 13 mm to 52 mm, and optional barrel cushions adapt the larger sizes to smaller cables.

- Low PIM performance
- High-strength design
- Easy to install and re-position
- Sizes available for 13 mm to 52 mm cable diameters
- Optional cable cushions for smaller-diameter cables

SKU	Cable Diameter	Height	Length	Width	Qty.
PSHS-1319-10	13 - 19	40 mm (1.57")	40 mm (1.57")	36 mm (1.42")	10
PSHS-2630-10	26 - 30	40 mm (1.57")	40 mm (1.57")	36 mm (1.42")	10
PSHS-3642-10	36 - 42	75.3 mm (2.96")	40 mm (1.57")	62 mm (2.44")	10
PSHS-4852-10	48 - 52	75.3 mm (2.96")	40 mm (1.57")	62 mm (2.44")	10



PIM Shield® Cable Support Blocks NEW

PIM Shield® Cable Support Blocks provide a low-PIM solution for securing RF, fiber, power, and RET cables in high-risk PIM zones. The two-piece clamshell design features insulated mating surfaces and mounts using 3/8-inch Threaded Rod Kits connected to low-PIM supports (sold separately).

- Low-PIM cable management for high-risk PIM zones
- PIM Performance: IM3 <-100 dBm (tested per IEC 62037-8, near field test, 2x 20W test tones)
- UV-stable, glass-filled Polypropylene construction
- Operating temperature range: -40°C to +70°C
- Available in 10 sizes for cables ranging from 1/4" to 1 5/8" (4mm to 54mm)
- 10 Cable Support Blocks (20 halves) per package



SKU	Cable Diameter
PSCSB-4-10	1/4" (4 – 6 mm)
PSCSB-14-10	1/4" (6 – 8 mm)
PSCSB-38-10	3/8" (10 – 12 mm)
PSCSB-12-10	1/2" (15.5 – 17.5 mm)
PSCSB-58-10	5/8" (19 mm)
PSCSB-23-10	23 mm (22.5 – 24 mm)
PSCSB-78-10	7/8" (27 – 29 mm)
PSCSB-35-10	35 mm (34 – 36 mm)
PSCSB-114-10	1-1/4" (39 – 42 mm)
PSCSB-158-10	1-5/8" (50 – 54 mm)

PIM Shield® Threaded Rod Insulator Kits

PIM Shield® Threaded Rod Insulator Kits were developed to provide a low-PIM way to secure Cable Support Blocks to mounts designed for snap-in style cable hangers. The insulators allow 3/8" threaded hardware to be installed in 3/4" diameter snap-in mounting holes while eliminating metal-to-metal contact between the threaded hardware and the mounting hole.

- Low PIM performance
- UV-stable, glass-filled nylon construction
- Enables 3/8" threaded rods to be installed in 3/4" diameter mounting holes
- Compatible with stainless-steel or galvanized threaded hardware



SKU	Qty.	Weight
901191-10	10	1.5 lbs.
901191-50	50	7 lbs.

PIM Shield® Cable Support Straps

PIM Shield® Cable Support Straps are low-PIM, high-strength Acetal straps designed to secure cable support brackets, mounts, and accessories to round members in high-risk PIM zones, providing a non-metallic alternative to steel banding that can become a PIM source. The weather-resistant straps come pre-cut to length with locking heads already installed for fast, reliable field installation, and are offered in 16-inch and 27-inch lengths to fit a range of member diameters.

- Low-PIM construction for use in high-risk PIM zones
- UV-stable Acetal material for long-term outdoor durability
- High strength: >200 lb loop tensile strength at 70°C
- Pre-cut to length with locking heads pre-installed
- Compatible with PIM Shield® Cable Support Brackets and mounting systems

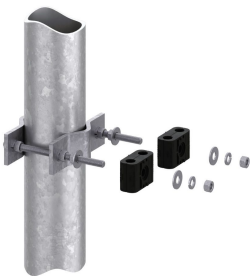


SKU	Length	Weight
900443-16-50	16"	37.2 lbs.
900443-27-25	27"	34.4 lbs.

PIM Shield® Cable Support Brackets

PIM Shield® Cable Support Brackets are a high-strength, low-PIM mounting system designed to secure Cable Support Blocks to round pipes in high-risk PIM zones. The galvanized-steel brackets clamp to members from 2.38 inches to 3.5 inches in diameter and are available in two sizes to suit different mounting configurations, providing a durable anchor point for low-PIM cable support.

- Low-PIM cable management for high-risk PIM zones
- Galvanized steel construction
- For pipes ranging from 2.38" to 3.5" diameter
- Designed to secure PIM Shield® Cable Support Blocks at the mounting point



SKU	Size	Mounting Pipe Range	Accessory Grip Range	Qty.	Weight
009718-01-10	Small	2.38" - 3.5" OD	1.25" at max OD	10	22.9 lbs.
009718-02-10	Large	3.75"	3.75" at max OD	10	21.5 lbs.

PIM Shield® Polymer Support Bars & Pole Clamps NEW

This low-PIM polymer cable support bar and polymer pole clamp solution is engineered to maximize PIM mitigation. They are highly configurable and can be used in a variety of applications.

- High-performance polymer construction
- Low weight, remains stable under wind and vibration
- Mounts to round legs 2-3/8" to 4-1/2" diameter
- 3/4" holes accept low-PIM snap-ins, best performance when paired with our Gen 2 Snap-Ins

SKU	Detail	Range	Positions	Weight
902053-01	Standard Range	10"	13	3 lbs.
902053-02	Extended Range	18"	13	3.75 lbs.
902055-02-3	Extended Range (3 Pack)	18"	26	5.1 lbs.

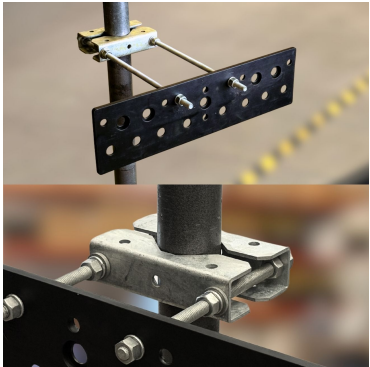


PIM Shield® Hybrid Support Bars & Pole Clamps NEW

This low-PIM hybrid cable support bar and steel pole clamp solution is engineered to maximize PIM mitigation. They are highly configurable and can be used in a variety of applications. The combination of a polymer cable support bar with galvanized steel pole clamps delivers low-PIM performance at the cable attachment point and high strength at the mounting point.

- High-performance polymer and galvanized steel hybrid construction
- Remains stable under wind and vibration
- Mounts to round legs 2-3/8" to 4-1/2" diameter
- 3/4" holes accept low-PIM snap-ins, best performance when paired with our Gen 2 Snap-Ins

SKU	Detail	Range	Positions	Weight
901932	Extra Bar	N/A	13	1.5 lbs.
901933-01	Standard Range	10"	13	3 lbs.
901933-02-3	Extended Range	18"	13	3.75 lbs.
901934-02-3	Extended Range (3 Pack)	18"	26	5.1 lbs.



PIM Shield® Round Member Base

The PIM Shield® Round Member Base provides a low-PIM mounting point for 3/8" stainless-steel threaded rods in high-risk PIM zones. ConcealFab's patented design retains a 3/8" heavy-head stainless-steel nut inside the polymer base, creating a secure attachment point without unintended metal-to-metal interfaces.

- UV-stable, glass-filled nylon construction with low-PIM performance
- Integrated stainless-steel inner nut
- Secures to round members using PIM Shield® Cable Support Straps



SKU	Thread Size	Qty.	Weight
900209-10	3/8"	10	9.3 lbs.

PIM Shield® Round Member Trapezoid

The PIM Shield® 3-position Trapezoid is an all-polymer, low-PIM alternative to stainless-steel trapezoids. It allows existing metal trapezoids to be swapped for a ConcealFab® low-PIM version without re-dressing cables at the site, saving time and helping minimize cable stress from bending and flexing.

- UV-stable, glass-filled nylon construction with low-PIM performance
- Installs with ConcealFab® Cable Support Straps

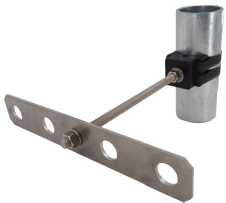


SKU	Qty.	Weight
900860-10	10	9.1 lbs.

PIM Shield® Snap-In Support, 4-Position

The PIM Shield® 4-Position Snap-In Support provides a low-PIM mounting adapter for organizing multiple cable runs in high-risk PIM zones, holding up to four stacks of Hybrid or Plastic Snap-Ins at a single attachment point. Built from stainless steel for strength and corrosion resistance, the adapter mounts to round members using a PIM Shield® Round Member Base and a stainless-steel threaded rod kit.

- Stainless steel construction with low-PIM performance
- Holds up to four stacks of Hybrid or Plastic Snap-Ins (sold separately)
- Mounts to round members using a PIM Shield® Round Member Base and stainless-steel threaded rod kit (sold separately)
- Single-point adapter for organizing multiple cable runs in tight PIM zones



SKU	Qty.	Weight
900351-10	10	23.1 lbs.

PIM Shield® Snap-In Support, 5-Position

The PIM Shield® 5-Position Snap-In Support provides a low-PIM mounting point for up to five stacks of snap-in style cable hangers in high-risk PIM zones. Molded from UV-stable, glass-filled nylon, the all-polymer adapter introduces no metal at the mounting point and is ideally suited to the flat side of angle members, where it secures with two PIM Shield® Cable Support Straps for fast field installation.

- UV-stable, glass-filled nylon construction with low-PIM performance
- Holds up to five stacks of snap-in style cable hangers
- Mounts to the flat side of angle members using two PIM Shield® Cable Support Straps (sold separately)
- All-polymer design with no metal at the mounting point

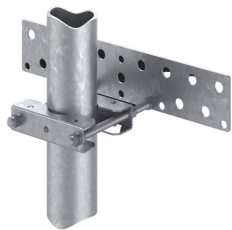


SKU	Qty.	Weight
900945-10	10	8 lbs.

PIM Shield® Snap-In Support, 13-Position

PIM Shield® 13-Position Snap-In Support brackets provide a low-PIM mounting system for securing multiple Hybrid or Plastic Snap-Ins on galvanized steel poles in high-risk PIM zones. Each kit ships complete with the 13-position bar and all required pole-mount hardware, and an Extended Range version is available for installations that need greater reach. When capacity needs to grow, an Extra Bar Kit doubles the number of connections at the same pole location.

- Galvanized steel construction with low-PIM performance
- Lighter weight than competitive alternatives
- Kit includes the bar and all required pole-mount hardware
- Holds multiple Hybrid or Plastic Snap-Ins (sold separately)
- Extended Range version available for greater reach
- Expand capacity with the Extra Bar Kit for twice the number of connections

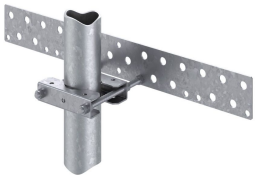


SKU	Description	Weight
900352-01	Support Bar, Pole Mount Kit, 13 Position	31.1 lbs.
900352-02	Support Bar, Pole Mount Kit, 13 Position, Extended Range	34.6 lbs.
900354	Extra Bar Kit, 13 Position	28.8 lbs.
901166-02-3	Support Bar, Pole Mount Kit, 26 Position, Extended Range, 3 Pack	29.5 lbs.

PIM Shield® Snap-In Support, 22-Position

The PIM Shield® 22-Position Snap-In Support provides a low-PIM mounting system for securing multiple Hybrid or Plastic Snap-Ins on galvanized steel poles in high-risk PIM zones. Each kit ships complete with the 22-position bar and all required pole-mount hardware, and an Extended Range version is available for installations that need greater reach. When capacity needs to grow, an Extra Bar Kit doubles the number of connections at the same pole location.

- Galvanized steel construction with low-PIM performance
- Lighter weight than competitive alternatives
- Kit includes the bar and all required pole-mount hardware
- Holds multiple Hybrid or Plastic Snap-Ins (sold separately)
- Extended Range version available for greater reach
- Expand capacity with the Extra Bar Kit for twice the number of connections

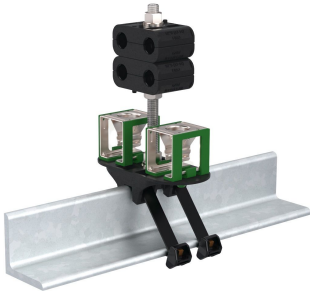


SKU	Description	Weight
900353-01	Support Bar, Pole Mount Kit, 22 Position	39.4 lbs.
900353-02	Support Bar, Pole Mount Kit, 22 Position, Extended Range	42.3 lbs.
900355	Cable Support, Extra Bar Kit, 22 Position	45.1 lbs.
901167-02-3	Support Bar, Pole Mount Kit, 44 Position, Extended Range, 3 Pack	39 lbs.

PIM Shield® Multi-Function Mounting System

PIM Shield® Multi-Function Mounting System delivers a low-cost, low-PIM way to secure cables to round pipes or angle members at cell sites. This unique, patent-pending design uses molded-in attachment features to lock onto pipes or angle flanges, reducing hardware complexity and eliminating the need for multiple parts.

- Low PIM performance
- UV-stable, glass-filled nylon construction
- Mounts to angle or round members using low-PIM acetal straps
- Options available to support Snap-Ins and 3/8" threaded rod



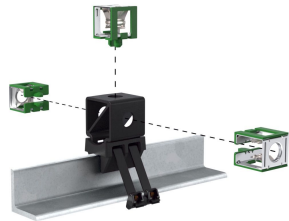
SKU	Type	Weight
901043-10	Base	7.8 lbs.
901044-10	1 Position	7.1 lbs.
901045-10	2 Position	8.4 lbs.

PIM Shield® Universal Mounting System

The PIM Shield® Universal Mounting System provides a low-cost, low-PIM method for securing cables to round pipes or angle members at cell sites. This unique, patent-pending design features molded-in attachment points for secure mounting to pipes or angle flanges, reducing complexity and eliminating the need for multiple parts.

- Low PIM performance
- UV-stable, glass-filled nylon construction
- Mounts to angle or round members using low-PIM acetal straps
- Options available to support Snap-Ins and 3/8" threaded rod

SKU	Variant	Qty.	Weight
900638-10	Round Member Adapter	10	1 lb.
900639-10	Universal Base, Angle Adapter, 1/4"	10	1 lb.
900940-10	Universal Base, Angle Adapter, 3/8"	10	1 lb.
900712-10	Universal Base, Threaded Rod Adapter	10	1 lb.
900713-10	Snap-in Adapter Block, 3 Position	10	1 lb.



PIM Shield® L-Angle Adapters NEW

PIM Shield® L-Angle Adapters are engineered to provide low-PIM cable accessory attachment points launching off existing structural L-members in high-risk PIM zones.

- High-performance polymer construction
- Available with or without 3/8"-16 threaded inserts for launching threaded rod or attaching 3/8" bolted hardware (sold separately)
- Can alternatively be mounted to various other steel profiles using acetal banding (sold separately)
- 3/4" holes accept low-PIM snap-ins, best performance when paired with our Gen 2 Snap-Ins

SKU	Detail	Qty.	Plastic Screws	Inclined Inserts	Straight Inserts
902186-10	2-Position	10	10	10	-
902200-10	2-Position with Aux. Threaded Inserts	10	10	10	10



PIM Shield® Threaded Rod Adapter

PIM Shield® Threaded Rod Adapter Kits provide a low-PIM way to secure Cable Support Blocks to galvanized steel mounts built for snap-in cable hangers, letting standard 3/8" galvanized threaded hardware install in their 3/4" mounting holes.

- Low PIM performance
- Galvanized steel construction
- Enables 3/8" threaded rods to be installed in snap-in mounting holes
- Sized to fit securely in holes with galvanization build-up

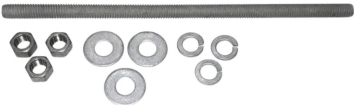


SKU	Material	Qty.	Weight
901295-10	Galvanized Steel	10	3 lbs.

PIM Shield® Threaded Rod Kits

PIM Shield® Threaded Rod Kits deliver a low-PIM mounting solution designed to secure cables in high-risk PIM zones. For best corrosion resistance, galvanized steel threaded rod kits should only be installed with galvanized steel brackets.

- Low PIM performance for demanding PIM environments
- Galvanized steel construction for durability and long service life
- Available in 6.5" and 9" lengths



SKU	Qty.	Weight
900714-10	10 kits of 10	27.8 lbs.
900715-10	10	9 lbs.

PIM Shield® Galvanized Threaded Rod Kits NEW

PIM Shield® Galvanized Threaded Rod Kits provide a low-PIM mounting solution for securing cables in high-risk PIM zones. To help prevent galvanic corrosion, galvanized threaded rod kits should only be attached to galvanized brackets or hardware.

- Low PIM performance
- Galvanized steel construction
- Available in 4-1/4", 7", and 9-1/2" lengths
- Sized for single, double, and triple stacks of Cable Support Blocks



SKU	Length	Stack Capacity	Qty.
PSCBH-01-10	4-1/4"	Single Stack	10
PSCBH-02-10	7"	Double Stack	10
PSCBH-03-10	9-1/2"	Triple Stack	10

PIM Shield® Stainless-Steel Threaded Rod Kits

PIM Shield® Threaded Rod Kits provide a low-PIM mounting solution for securing cables in high-risk PIM zones. To help prevent galvanic corrosion, stainless-steel threaded rod kits should only be attached to stainless-steel brackets or Channel Runners.

- Low PIM performance
- Stainless steel construction
- Available in 2", 6", 8", and 12" lengths



SKU	Length	Qty.	Weight
900211-10	6"	10	24.3 lbs.
900212-10	8"	10	28.8 lbs.

Miscellaneous Accessories

Supporting hardware and field accessories that complete the PIM Shield® installation ecosystem. Includes fixed-torque wrenches calibrated to each hardware requirement, cable strap tensioning tools engineered for consistent strap installation, and low-PIM RF Safety Sign Supports for compliant signage placement in high-risk PIM zones and high-power rooftop areas.



PIM Shield® Cable Strap Tensioning Tool

The PIM Shield® Cable Strap Installation Tool is optimized for tensioning and cutting ConcealFab® Cable Straps at the maximum grip point. Unlike standard tools that can slip during tensioning, this tool features an aggressive grip surface that maintains maximum friction for secure, consistent strap installation.

- Aggressive gripping surface prevents slippage during tensioning
- Removable cutting head for clean strap trimming
- Compatible with ConcealFab® Cable Straps (900443-16-50 and 900443-27-50)
- Also works with Thomas & Betts (Deltec®) cable straps
- Accepts strap widths from 0.25" to 0.5" and thicknesses from 0.04" to 0.07"



SKU	Strap Width	Strap Thickness	Weight
900442	0.25" - 0.5"	0.04" - 0.07"	1 lb.

PIM Shield® Torque Wrenches

Proper installation torque is critical for bolted connections to achieve low-PIM performance. ConcealFab® has identified the optimal torque values for each PIM Shield® cable support system and offers convenient, fixed-torque wrenches matched to each required torque setting.

- Multiple head sizes available to match common site hardware and RF connectors
- Options support both imperial and metric applications (for example, 3/8" and M10)
- Fixed-torque design promotes repeatable results across crews and sites
- Color-coded grips make the correct torque tool easy to identify in the field



SKU	Head Size	Torque	Use With	Grip Color	Weight
901039	9/16"	4 FT-LB (5.4 Nm)	3/8" Hardware	Red	0.5 lbs.
900413	3/4"	20 FT-LB (27.1 Nm)	1/2" Hardware	Blue	0.5 lbs.
901522	22 mm	5.9 FT-LB (8.0 Nm)	4.3-10 RF Connectors	Blue	0.5 lbs.

PIM Shield® RF Safety Sign Supports NEW

The PIM Shield® RF Safety Sign Supports provide a low-passive-intermodulation method for securing metal or plastic RF Safety signs in high-risk PIM zones and high-power rooftop areas. By replacing conventional metal sign hardware with low-PIM components, it helps keep required RF safety signage in place without introducing a new source of passive intermodulation near base station antennas.

- Low-PIM solutions for securing RF Safety Signs in high-risk PIM zones and high-power rooftop sites
- Meets FCC requirements for RF safety signage at cell sites
- PIM Performance: IM3 <-100 dBm (tested per IEC 62037-8, near field test, 2x 20W test tones)
- Multiple mounting options: flat surfaces, round members, or freestanding barrier stands
- UV stable materials including glass filled Nylon, Polyurethane, and Acetal components
- Compatible with both metal and plastic RF safety signs
- Available as standalone supports, complete mounting kits, and freestanding sign stands



SKU	Description	Weight
901031	PIM Shield RF Safety Sign Support, Qty. 10	9.9 lbs.
901034	PIM Shield RF Safety Sign Support Kit	3.4 lbs.
901706	Kit, RF Safety Sign Support, Round or Flat Mounting	1.25 lbs.
901607	RF Safety Sign Stand	9 lbs.

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Valmont is committed to providing products and services that enhance the lives of our customers, employees, and communities and to do so in an increasingly efficient and environmentally friendly manner. For more information about our commitment to sustainability, please visit investors.valmont.com/sustainability.

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