EV Solutions

Oldcastle Infrastructure™
A CRH COMPANY

EV Charging Infrastructure

EV Solutions
Charging Infrastructure

The dynamic landscape of electric vehicles (EVs) underscores the evolving need for charging infrastructure. Currently, with approximately 18 vehicles vying for each charging point, the demand for an appropriate EV charging network is evident.

Federal support, channeled through the National EV Infrastructure Formula Program (NEVI) along with additional state funding, is designed to help with accessibility and establish EV corridors.

On the electric vehicle front, sales are poised for a 15-20% growth. This sales surge is propelled by a burgeoning model count, close to 100 by 2027, where vehicle offerings align with prevailing consumer preferences, particularly in the SUV and Pickup segments. Navigating these intricacies demands a nuanced understanding and strategic planning.

The EV Charging Solutions team at Oldcastle Infrastructure is ready to help you with your specific EV project requirements. Drawing from our proven experience across numerous sites and harnessing the innovation of our team of experts, we are committed to delivering a scalable, value-engineered solution that precisely aligns with your requirements.

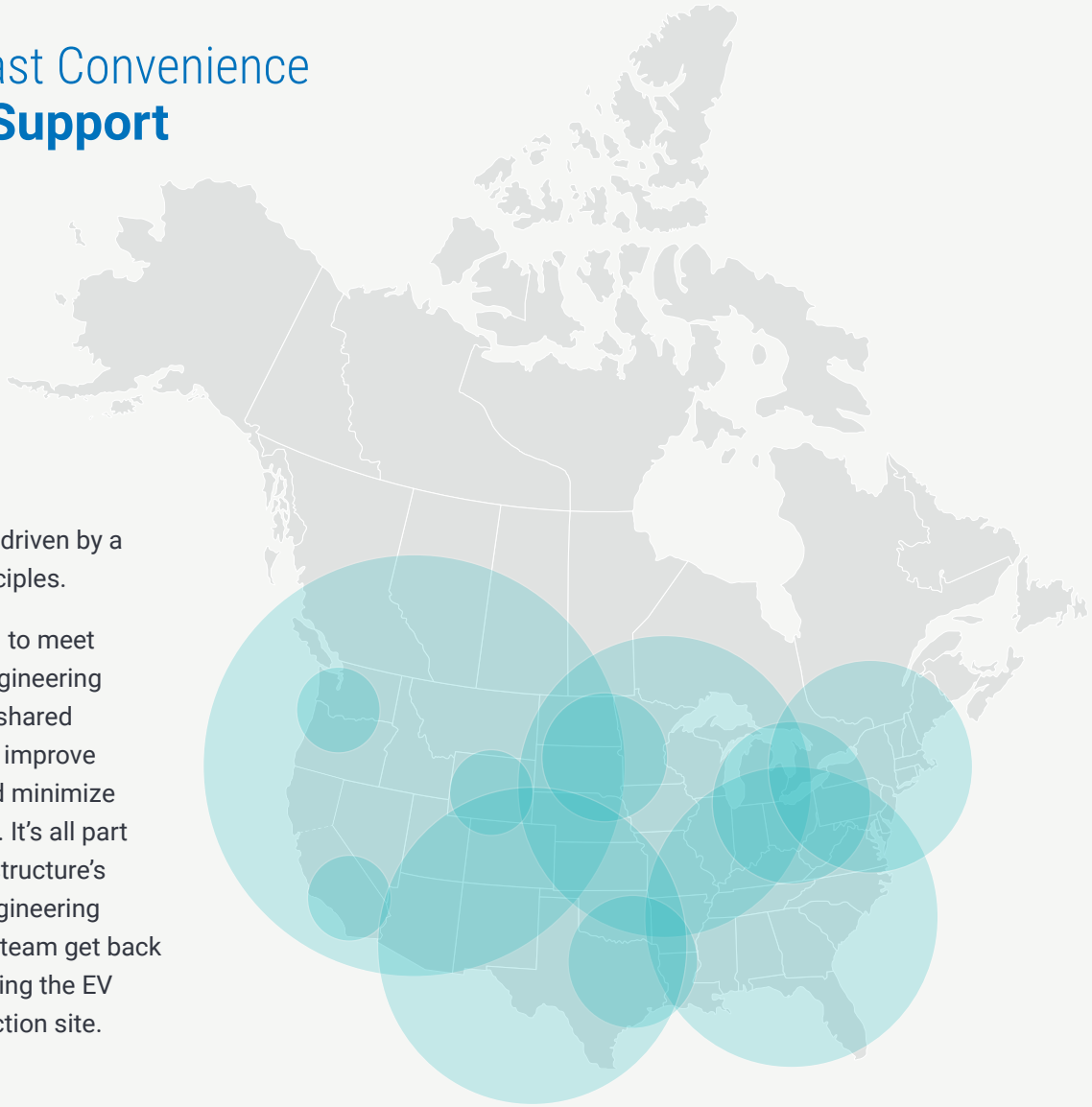
- Leverage the engineering support of our EV Solutions team to craft a comprehensive, ready-to-deploy scalable solution.
- Experience the adaptability of our versatile systems, tailored to suit your application.
- Embrace future-readiness with components primed for seamless integration of technological advancements.
- Optimize designs to accommodate site constraints effectively.
- Streamline installation processes, enhancing efficiency reducing quality issues.
- From standard products to customized solutions and NEVI Grant requirements, our team of experts will help you get it right.

Connect with our EV Solutions Team

Coast to Coast Convenience **and Local Support**

Our network of over 80 locations nationwide ensures overcoming complex supply chain and facility requirements with the utmost dedication to crafting customized solutions driven by a customer-centric principles.

Products are modified to meet specific needs and engineering plans are refined and shared across our network to improve building efficiency and minimize environmental impact. It's all part of the Oldcastle Infrastructure's consultative, value-engineering support that lets your team get back to focusing on managing the EV charging hub construction site.



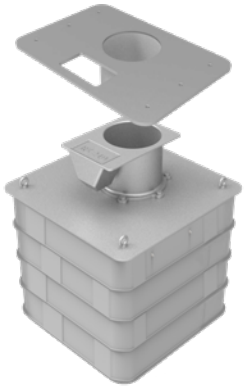
Sustainability and **Environmental Responsibility**

At Oldcastle Infrastructure, we believe we're all stakeholders in the preservation of our planet, and it's our collective duty to contribute to environmental sustainability, which also encompasses financial sustainability.

We're committed to refining production methods such as utilizing low-carbon concrete and dedicated to protecting fresh water through AI-powered leak detection. As your total site solutions partner, we're dedicated to help you overcome supply chain disruptions to minimize environmental impact.

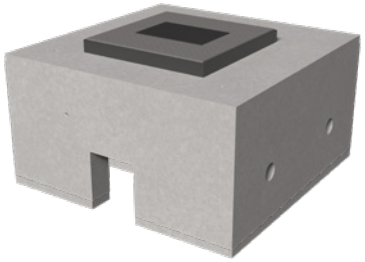
Interchangeable Foundation Systems

Our EV foundations have been designed to secure all types of EV charging units from any manufacturer through interchangeable fixing points. The system, which includes both precast and modular options, simplifies cable installation and provides grow-as-you-go flexibility.



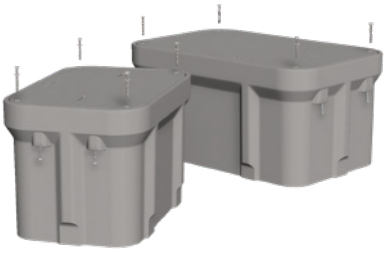
High Powered Charger (HPC) Foundation L3/DCFC

- Includes chamber base and retention socket fixing point
- Retention socket creates an impact resistance foundation
- Retention socket allows installation in advance and includes a range of adapter plates to accommodate standard and custom designs and easy access to utility cables
- Facilitates the use of cables up to 9.5 inch
- Fully future-proofed to allow for replacements, upgrades and required additions



EVNext Precast Vault with Lid L3/DCFC

- Precast solution reduces installation time on site and quality issues
- Increased space below ground for easier conduit installation
- Standardized approach to construction
- Uniform finish at every installation
- Four conduit entry points
- Below ground infrastructure work can be completed in advance of charger selection
- Interchangeable cover to suit multiple OEMs, which future-proofs sites
- Future-proof sites for increase in EV demand eliminating the need for secondary civils or protruding conduits

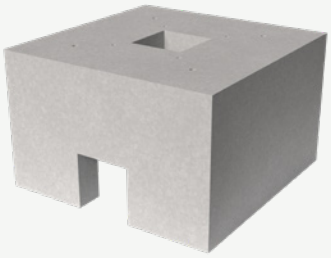


EVNext Polymer Concrete Enclosure L2/L3

- Interchangeable covers to suit multiple OEMs
- Lightweight installation
- Concrete free installation allows quick deployment of chargers and not weather dependent
- Future-proof for increase demand eliminating above ground conduit or secondary civils
- Small footprint both at-ground and below-ground level

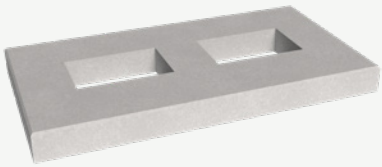
Cabinet Bases

Choose from a variety of options for cabinet bases designed to protect and store the electrical wiring buried underground. Our multi-material enclosures provide the right performance to fit your application. These cabinet bases can be installed fully below grade to at-grade depending on your preference and site constrictions.



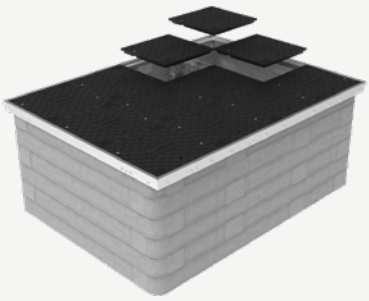
EVNext Precast Vault

- Industry leading product choice to protect and provide access to utility cabling
- Available features include grade rings and risers, lifters, pulling irons, drainage sumps, term-a-ducts and knockouts, as well as racking to best fit your project needs
- Approved by multiple utility companies for transformer usage



EVNext Precast Pad

- Mount transformer pads/slabs are designed to accelerate the deployment of EV installation of chargers, transformers and other equipment



STAKKAbox™ ULTIMA Connect Access Chamber and Composite Cover

- Consists of straight side walls and curved corner pieces, connected via a locking pin
- 90-ton vertical loading and 5-ton sidewall loading
- Modular solution to suit all chamber sizes
- Simple and quick installation
- Lightweight sections for manual handling
- Easily adaptable on site without loss of strength
- No lifting equipment required
- Can be supplied flat pack
- Easily drill conduit access points

Access Chambers

A variety of options for access chambers and covers, designed to protect and store the electrical wiring buried underground. Our multi-material enclosures provide the right performance to fit your application.

Duralite® Enclosures

- Tier 15 and Tier 22 load rating performance in the lightweight enclosure category
- Engineered to withstand heavy loads, Duralite blends composite materials to provide durable, accessible security to our necessary infrastructure

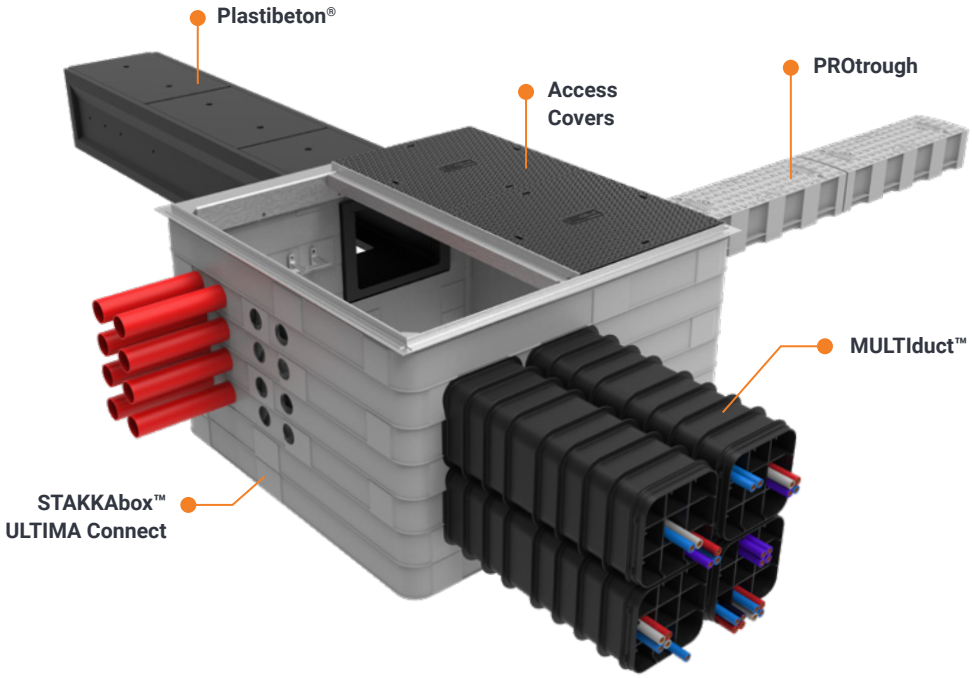
Oldcastle Polymer Enclosures

- Polymer concrete enclosures deliver strength and durability like traditional concrete, but at a fraction of the weight
- These enclosures provide medium to heavy duty solutions for vaults, splice boxes and meter boxes ideal for commercial and industrial applications

Christy® Enclosures

- Concrete enclosures deliver reliable, cost-effective performance through a wide variety of sizes for many applications
- You can depend on the trusted Christy brand for reliable hand holes and vaults for the utility market

Seamless
product integration



Cable Protection

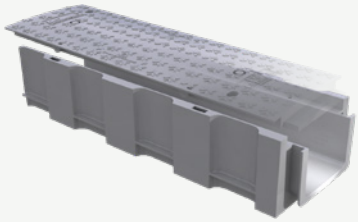
Designed to house and provide unrivaled protection, our cable protection range includes at grade and below grade solutions.

Plastibeton® Cable Trench

- High-strength trench with exceptional resistance to freeze/thaw conditions, providing outstanding vehicle load rating at any point
- Made of a unique, patented high-density polymer concrete
- Protect and allow easy access to power cables
- Lightweight design reduces installation cost

MULTIduct™

- Pre-formed duct banks designed to house and protect cables
- Manufactured from nitrogen foamed high density polyethylene for a rigid duct system with high crush resistance and loading strength
- Ideal for areas of restricted depth
- 50% more duct capacity with built-in cable spacing
- Lightweight sections for cost-effective installation
- Fully recyclable



PROtrough Cable Trench

- Designed to have no restriction on cable ambient operating temperatures and eliminate heat distortion/thermal expansion issues
- Modular and lightweight for convenient deployment and installation throughout complex power facilities
- Seamless integration with STAKKAbox™ access chamber
- Ideal for surface mounting installations
- Easy-to-install pedestrian lid avoids disruption to the public or any health and safety implications

Duct-Way

- For use in industrial and commercial utility applications
- Subjected to in-process quality control inspections to assure compliance with manufacturing and performance standards
- Available as TC6 and TC8 from 2" to 6" diameter

Fittings

- A broad range of fittings including standard and special radius sweeps, couplings, elbows and bell ends are just a sampling of the products we offer.
- Where applicable, our fittings meet UL651 requirements.

Lighting, Signage & Protection

Oldcastle Infrastructure's range of solutions include pole foundations and bollards for lighting, signage and for protection of on-site components.

OMNI Universal Pole Base

- Pre-engineered foundation that is stocked and readily available for immediate delivery and installation
- Adjustable bolt diameter and prepackaged bolts simplify ordering and installation by eliminating coordination with pole manufacturers, creation of templates and on-site bolt variability
- The OMNI foundation reduces the time from delivery to power-on to less than half a day

Retention Socket with Duckfoot Bend for Lighting Fixtures

- Manufactured galvanized cast steel and ductile iron sockets create an impact resistant foundation
- Securely retain in position all types of light poles in a range of sizes and shapes to suit a wide variety of light poles
- Accepts a wide breath of diameters from 2 inches to 17 inches
- 360 degree swivel and cable entry through the base of the post
- Enables the duct to be connected from any direction and its slow radius inner bend simplifies the installation of cables to light fixtures
- Accepts standard conduits 2, 4 and 6 inch inner diameter

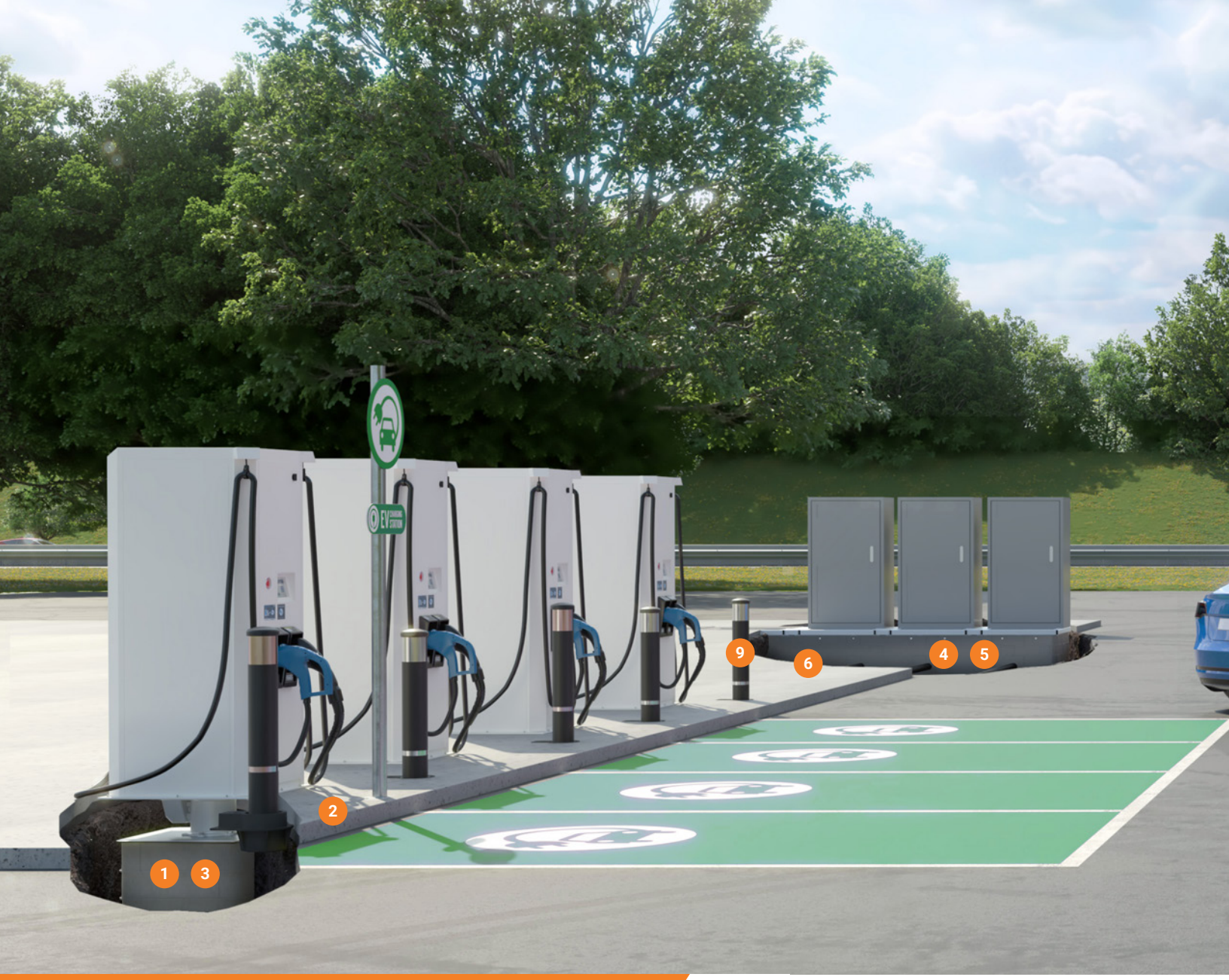
Lighting, Signage & Protection

Non-Illuminated Retention Socket for EV Charging Units

- Enables a swift and improved installation process
- Retention socket creates an impact resistance foundation
- Facilitates simple removal with a key and wrench, ideal for replacement to optimize space or resulting from collision
- May be shortened on site and installed prior to the arrival of furniture
- May be sealed with a pedestrian plug, to remove trip hazards, guaranteeing sites remain operational

Bollards

- Illuminated and non-illuminated options
- Highly resistant yet very flexible
- Known as the safest, most durable and maintenance-free bollard available today



Enabling what's **next in EV charging**

With a wide range of products built to last, Oldcastle Infrastructure uses innovative engineering and industry forecasting to provide products that also increase the longevity and give you room to grow and expand your EV charging hub. We're here to help as we collectively steer towards a future dominated by electric mobility.

1. HPC Foundation
2. EVNext Precast Vault/Pad
3. EVNext Polymer Concrete Enclosure
4. STAKKAbox™ ULTIMA Connect
5. Access Chambers
6. Cable Trench / Cable Duct
7. Pole Bases
8. Retention Sockets
9. Bollards

	Application					
Product	**Transformer - Switchgear**	**Power Cabinet**	**L2 Charger**	**L3 Charger**	**Lighting**	**Site Protection**
HPC Foundation				✓		
EVNext Precast Vault	✓	✓	✓*	✓*		
EVNext Precast Pad	✓	✓	✓*	✓*		
EVNext Polymer Concrete Enclosure			✓	✓		
STAKKAbox™ ULTIMA Connect		✓	✓	✓		
Plastibeton Cable Trench	✓	✓	✓	✓	✓	✓
MULTIduct™ Cable Duct	✓	✓	✓	✓	✓	✓
OMNI Universal Pole Base			✓		✓	
Retention Sockets			✓	✓	✓	✓
Bollards						✓

*Suitable for use only when paired with a frame and cover

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Trusted partnerships.
Full scale solutions.