

UNDERGROUND ENCLOSURE PRODUCTS

PROTECTING WHAT MATTERS,
WHERE IT MATTERS MOST.





AMERICAN POLYMER COMPANY UNDERGROUND ENCLOSURES

American Polymer Company (APC) offers a variety of grade-level enclosures for many applications and industries including water utility, irrigation, telecommunications, electrical, gas, and other industrial applications. Our products offer superior performance for non-deliberate traffic installations. From polymer concrete to lightweight composites, we have the right materials and performance to serve your project.

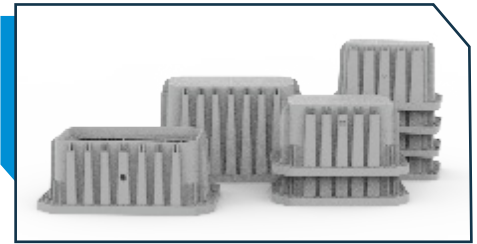
MAXIMUS™ LD

The light duty, thermoplastic enclosure line is a trusted solution of enclosures suited for areas where a pedestrian-rated enclosure would be best. These are perfect for applications in residential situations such as meter boxes or connecting fiber to the home.



MAXIMUS™ HD

Innovating upon traditional enclosures—our new lightweight, tier-rated, nesting enclosures provide the same performance as polymer concrete delivered at half the weight. These composite enclosures allow for safer handling, improved transportation and storage efficiency.



LEGACY SERIES™

Our polymer concrete enclosures are manufactured with high-quality aggregates and proprietary resin systems. Its unique, cross-linked bond provides increased strength and durability as well as improved performance during freeze/thaw cycles and chemical resistance.



LEGACY SERIES™ H20

Expanding our Legacy Series™, our H20-rated products feature a unique polymer concrete enclosures with a galvanized steel frame and cover. When properly installed these products comply with H20 standards.



**SCAN HERE TO VIEW OUR SELF-CERTIFIED
BABA COMPLIANT PRODUCTS**

American Polymer Company has invested in the domestic manufacturing and certifies that it is compliant with the BABA requirements for the BEAD Program as set forth by the United States Department of Commerce.



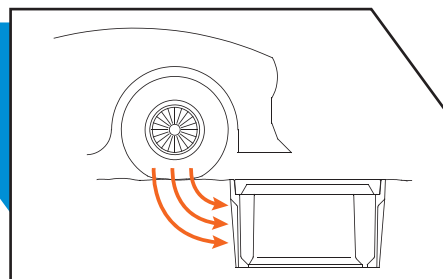
LOAD PERFORMANCE STANDARDS

American Polymer Company products meet or exceed the current test provisions listed in the ANSI/SCTE 77 2023 Specification for Underground Enclosure Integrity. These standards ensure our products perform to the integrity and safety measures for each enclosure application.

APPLICATION	LOADING REQUIREMENTS			
LIGHT DUTY Pedestrian traffic only	Vertical	Test Load	13.3 kN	3,000 pounds
TIER 5 Sidewalk applications with a safety factor for occasional non-deliberate vehicular traffic	Vertical	Design Load Test Load	22.2 kN 33.3 kN	5,000 pounds 7,500 pounds
	Lateral	Design Load Test Load	8.0 kN 12.0 kN	1,800 pounds 2,700 pounds
TIER 8 Sidewalk applications with a safety factor for non-deliberate vehicular traffic	Vertical	Design Load Test Load	35.6 kN 53.4 kN	8,000 pounds 12,000 pounds
	Lateral	Design Load Test Load	8.0 kN 12.0 kN	1,800 pounds 2,700 pounds
TIER 15 Driveway, parking lot, and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic	Vertical	Design Load Test Load	66.7 kN 100.1 kN	15,000 pounds 22,500 pounds
	Lateral	Design Load Test Load	10.7 kN 16.0 kN	1,800 pounds 2,700 pounds
TIER 22 Driveway, parking lot, and off-roadway applications subject to occasional non-deliberate heavy vehicular traffic	Vertical	Design Load Test Load	100.1 kN 150.1 kN	22,500 pounds 33,750 pounds
	Lateral	Design Load Test Load	10.7 kN 16.0 kN	2,400 pounds 3,600 pounds
H20 Deliberate vehicular traffic, loading zones, parking lot, and alleyway applications	Test Load: 16,000 pounds; ASTM C1802, Level 4-7 Test Load: 40,000 pounds; AASHTO M306			

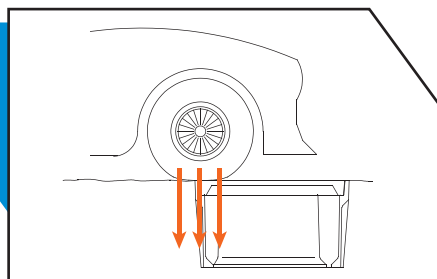
LOADING REQUIREMENTS 101

The test procedures for the loading requirements set forth by the ANSI/SCTE 77 standard are designed to simulate traffic interaction on these non-deliberate traffic enclosures. The standard outlines a three-position load test simulating the impact for tier-rated enclosures as shown below.



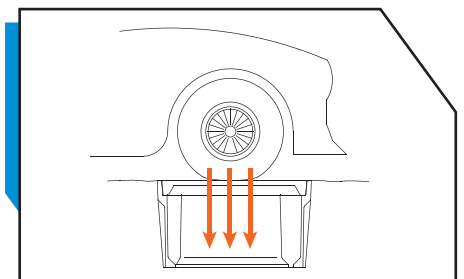
LATERAL SIDEWALL

This test simulates the vehicle's approach to the enclosure and the load impact to the sidewall integrity of the enclosure.



VERTICAL SIDEWALL

This test simulates the vehicle's approach to the enclosure and the load impact to the edge integrity of the enclosure.



COVER VERTICAL LOAD

This test simulates the load impact to the cover and overall enclosure integrity when the vehicle is directly on top of the enclosure.

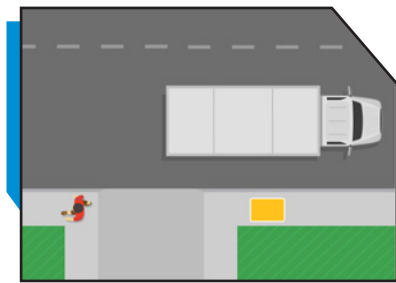
ENCLOSURE APPLICATIONS BY LOAD STANDARDS

LIGHT DUTY

These are intended for pedestrian traffic only and should be placed in grassy areas where it will not likely come in contact with vehicles. They are commonly used in residential and greenbelt areas.



Enclosures are indicated in the overhead view as shown above in yellow.



Enclosures are indicated in the overhead view as shown above in yellow.

TIER-RATED ENCLOSURES

These enclosures are used in areas where they might come in contact with non-deliberate traffic such as off-roadway / right-of-way grassy areas and sidewalks. Various tier ratings are approved by local DOT offices for use in these applications.

TRAFFIC RATED H20

Vaults, manholes, and enclosures that are suited for deliberate traffic are designated as H20. These products can be placed in the loading zones, parking lot, and alleyway applications.



Enclosures are indicated in the overhead view as shown above in yellow.



AVAILABLE EXCLUSIVELY FROM APC



ENGINEERED TO PERFORM AT EVERY LEVEL

Most products are built to pass a single tier. Ours are built to perform across every condition, every time.

CONSISTENT PERFORMANCE

ENGINEERED TO MEET EVERY TIER REQUIREMENT — NOT JUST ONE.

SIMPLIFIED SPECS

STREAMLINED INVENTORY — ONE SOLUTION MANY APPLICATIONS.

REAL-WORLD RELIABILITY

TESTED BEYOND THE STANDARD — BUILT TO HANDLE REAL LIFE.

MAXIMUS™ LD

DURABILITY THAT FITS THE LANDSCAPE.™

Light duty enclosures are molded with strong, thermoplastic resins. These enclosures provide a versatile option for many projects, typically used in residential and various greenbelt applications.



MODEL	NOMINAL SIZE	DEPTHS	COVER	WEIGHT	PERFORMANCE
0910	9" Dia.	10"	T-Cover	3 lbs.	Light Duty
1015	10" x 15"	12"	T-Cover	9 lbs.	Light Duty
1324	13" x 24"	18"	T-Cover	22 lbs.	Light Duty
1419	14" x 19"	12"	T-Cover	9 lbs.	Light Duty
1730	17" x 30"	18", 24", 34"	T-Cover	Varies	Light Duty



American Polymer Company products meet or exceed the following standards:

- + Build America, Buy America (BABA)
 - + ANSI/SCTE 77 2023
- + WUC 3.6
 - + Telcordia GR-902-CORE



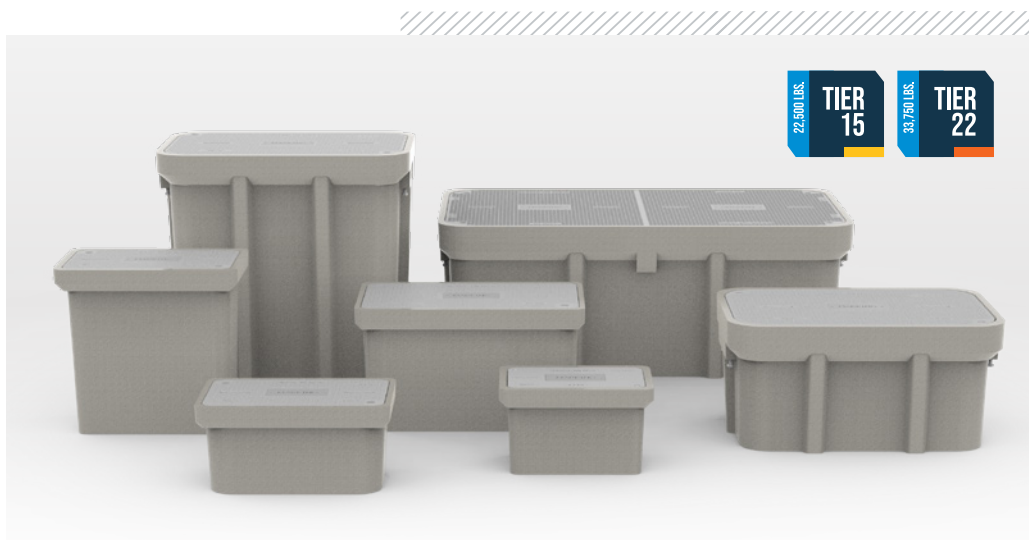
LEGACY SERIES™

THE PROVEN STANDARD, REIMAGINED.™

Polymer concrete provides superior strength and durability for many right-of-way applications and is resilient to nature's elements. We reimagined the standard — providing **lightweight composite covers as our standard** on the most popular sizes.



FEATURED TECHNOLOGIES



	MODEL FAMILY	NOMINAL SIZE	DEPTHS	COVER	PERFORMANCE
	1118	11" x 18"	12", 18"	Single	Tier 15 & Tier 22
▶	1324	13" x 24"	12", 18", 24"	Single	Tier 15 & Tier 22
▶	1730	17" x 30"	12", 18", 24", 30", 36"	Single	Tier 15 & Tier 22
	2424	24" x 24"	24"	Single	Tier 15 & Tier 22
▶	2436	24" x 36"	18", 24", 30", 36"	Single	Tier 15 & Tier 22
▶	3048	30" x 48"	18", 24", 36"	2-Piece	Tier 15 & Tier 22
▶	3360	33" x 60"	24", 36"	2-Piece	Tier 15 & Tier 22
	3636	36" x 36"	36"	Single	Tier 15 & Tier 22
	3660	36" x 60"	36"	2-Piece	Tier 15 & Tier 22
▶	4848	48" x 48"	36", 48"	2-Piece	Tier 15 & Tier 22
▶	4860	48" x 60"	48"	2-Piece	Tier 15 & Tier 22
▶	4872	48" x 72"	48"	2-Piece	Tier 15 & Tier 22
▶	4896	48" x 96"	48"	4-Piece	Tier 15 & Tier 22



COMES STANDARD WITH LIGHTWEIGHT COMPOSITE COVERS



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THE BOX THAT CHECKS ALL THE BOXES.

MAXIMUS™ HD



SUPERIOR STRENGTH

Specially formulated composite blends and one-piece, monolithic design provide unmatched strength without the need of support bars. Additionally, the one-piece body design resists bowing after installation.



ULTRA LIGHTWEIGHT AND SAFE TO LIFT

We have designed Maximus™ HD with a safety mindset, ensuring our covers can be lifted safely by one person, following OSHA guidelines. Our products can easily be handled and installed efficiently with smaller crews.



EASY TO INSTALL AND FIELD MODIFY

Our vertical rib structure makes installation and backfill a breeze. Unlike waffle-walled designs, Maximus™ HD is less susceptible to sinking after installation. An added plus, the material is easy to cut or modify in the field.



SUSTAINABLE

We are committed to decreasing our environmental impact wherever possible. Maximus™ HD is created with recycled content. Its nested design helps minimize emissions by allowing more units per truckload.



FIRE RESISTANT

Our boxes are built to protect your most vital assets, allowing you to keep your network running and our communities connected. We test our products to exceed flammability and brush fire environmental requirements.



TIER 15 AND TIER 22 PERFORMANCE

Tier 22 isn't always stronger. The load is heavier, but the testing is different than Tier 15. Many Tier 22 products can and do fail when tested to Tier 15. Rest assured, Maximus™ HD units exceed both Tier 15 **and** Tier 22 independently.



NESTABLE DESIGN

The patented flared design allows the units to be stacked for shipment and storage. The unique design allows for up to 150% more units per truckload than traditional polymer concrete enclosures.



MAXIMIZED INTERIOR VOLUME

Maximus™ HD's flared design provides maximum interior working space—up to 60% more volume than a traditional polymer concrete enclosure of the same size, giving more room for your cables, slack, and closures.



CHIP AND CRACK RESISTANT

The composite blend allows this product to be resilient—more resistant to chipping, cracking, or breaking as seen in traditional polymer concrete enclosures.



NOT SUSCEPTIBLE TO FROST HEAVE

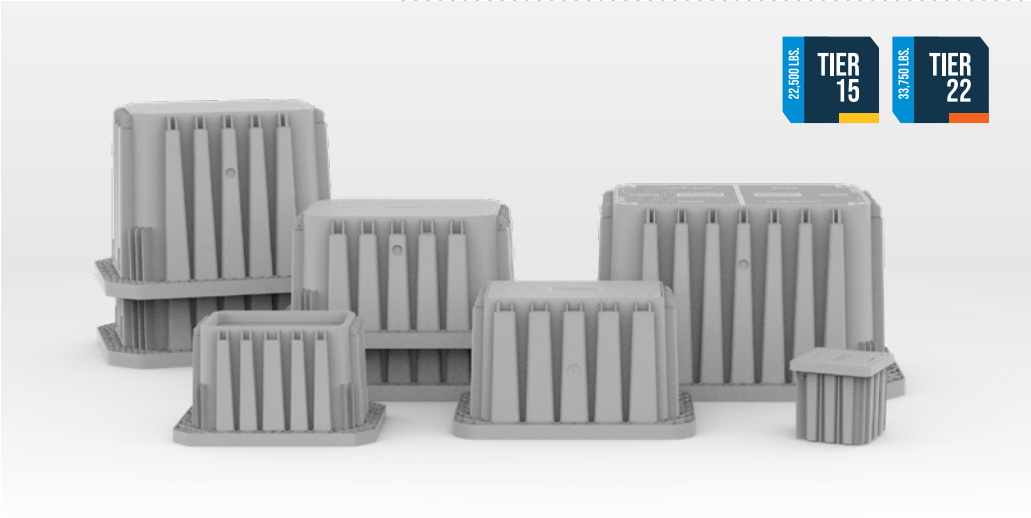
The exterior footer of Maximus™ HD provides a solid foundation rooted in the ground and minimizes the risk of frost heave during freeze/thaw cycles in colder climate regions.

MAXIMUS™ HD

THE BOX THAT CHECKS ALL THE BOXES.™

Using patented technology, our new lightweight, tier-rated enclosures—provide the same performance as polymer concrete, delivered at half the weight. Our composite enclosures allow for safer handling, improved transportation, and storage efficiency.

FEATURED TECHNOLOGIES



MODEL	NOMINAL SIZE	DEPTHS	COVER	PERFORMANCE
1212	12" x 12"	12", 24"	Single	Tier 15 & Tier 22
1324	13" x 24"	18"	Single	Tier 15 & Tier 22
1730	17" x 30"	24", 36"	Single	Tier 15 & Tier 22
2436	24" x 36"	24", 36"	Single	Tier 15 & Tier 22
3048	30" x 48"	24", 36"	2-Piece	Tier 15 & Tier 22



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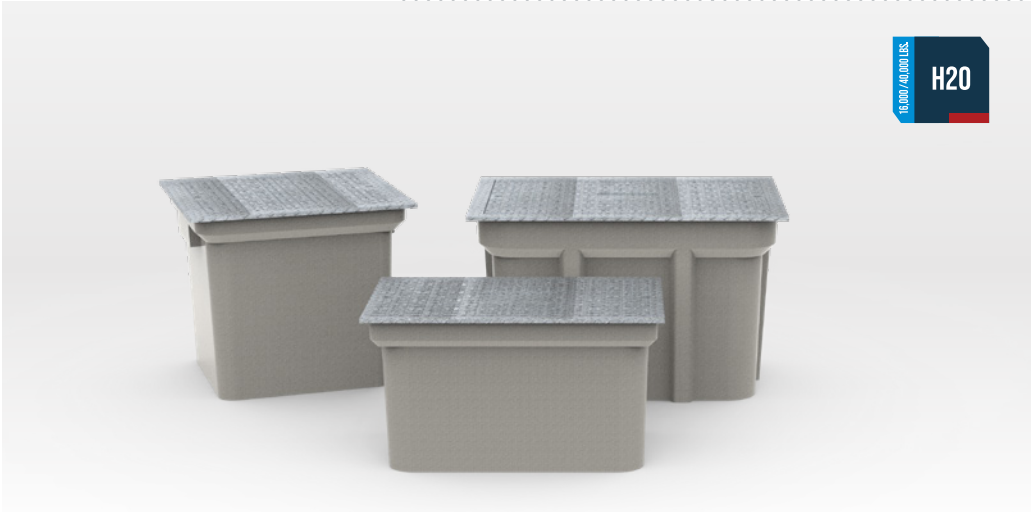
- + Build America, Buy America (BABA)
- + WUC 3.6
- + ANSI/SCTE 77 2023
- + Telcordia GR-902-CORE



LEGACY SERIES™ H20

BUILT FOR TRAFFIC. ENGINEERED TO LAST.™

Expanding our Legacy Series™, our H20-rated products feature a unique polymer concrete enclosures with a galvanized steel frame and cover. When properly installed these products comply with H20 standards.



MODEL FAMILY	NOMINAL SIZE	DEPTHS	COVER	PERFORMANCE
1118	11" x 18"	12", 18"	Single	H20
1324	13" x 24"	12", 18", 24"	Single	H20
1730	17" x 30"	12", 18", 24", 30", 36"	Single	H20
2424	24" x 24"	24"	Single	H20
2436	24" x 36"	18", 24", 30", 36"	Single	H20
3048	30" x 48"	18", 24", 36"	Single	H20
3636	36" x 36"	36"	Single	H20



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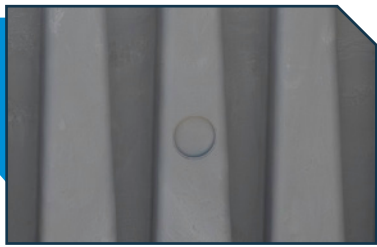
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+ Telcordia GR-902-CORE



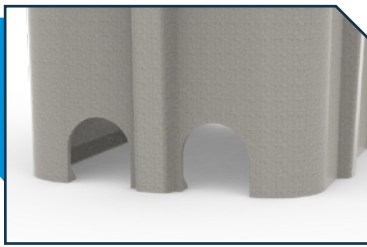
PRODUCT OPTIONS AND ACCESSORIES

A variety of options and accessories from cable racking to mouseholes are available to meet your project needs. Please reach out for additional and custom options.



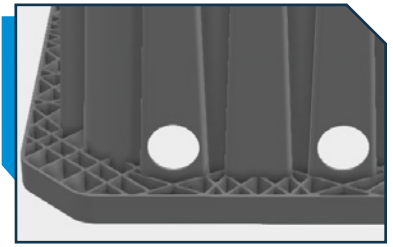
KNOCKOUTS

Knockouts are there when you need the ability to quickly add a hole to an enclosure.



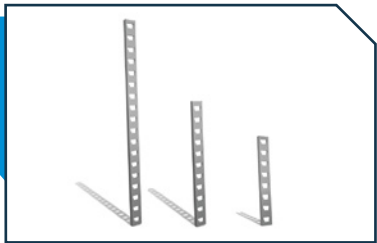
MOUSEHOLES

Mouseholes can be used to drop enclosures over pipe and conduit.



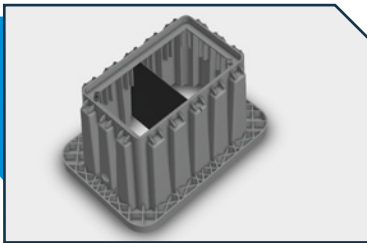
CONDUIT ENTRIES

Conduit holes are available upon request for many of our product lines to allow utilities to pass through the enclosure.



CABLE RACKING

Available in a variety of lengths, cable racking can be installed to meet your project needs.



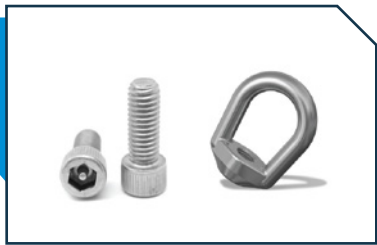
DIVIDERS

Dividers can help split a box to accommodate two utilities within the same enclosure.



EMS LOCATORS

Locators can be sourced for a variety of utilities including telephone, power, and gas.



SPECIALTY HARDWARE

Security bolts, pulling eyes, and other specialty hardware are available.



GROUNDING AND BONDING

Several options for bonding, grounding, including isolation switches can be added.



MARKINGS

Our marking plates allow for flexibility with inventory and can be permanently installed—providing peace of mind.

SCAN HERE AND FOLLOW OUR NEW TECHNICAL INSIGHT SERIES: INSIDE THE BOX

**INSIDE
THE BOX**

We know that industry terms, standards, installation methods, and technical information can get confusing, so use this platform as a resource for your underground enclosure needs.





CHOOSE **AMERICAN POLYMER COMPANY** PRODUCTS FOR ALL YOUR NEEDS IN UTILITY ACCESS AND PROTECTION

AMERICAN POLYMER COMPANY offers you convenience, reliability, and technical expertise in a single source for grade-level enclosures and solutions supporting utility infrastructure and keeping communities connected.



CALL OR EMAIL FOR MORE INFORMATION

1-888-411-3048

connect@apcunderground.com



VISIT OUR WEBSITE

apcunderground.com