CESCA USA®



PRODUCT SELECT GUIDE

Engineered product solutions for underground and aerial utility infrastructure.

INTRODUCTION

CESCA USA® is a proud Texas-based, veteran-owned, and minority-owned corporation dedicated to delivering high-quality, innovative infrastructure solutions. Founded in 2022, we have rapidly evolved from a specialized telecommunications distributor into a premier manufacturer and global exporter of underground and aerial network utility products.

We pride ourselves on our agility, engineering excellence, and unwavering commitment to customer-driven innovation. By continuously expanding our production capacity and diversifying our portfolio, we ensure our clients receive project-specific solutions tailored to the evolving demands of modern infrastructure.

One partner / Three specialized divisions

CESCA VAULT
Built to Last. Engineered to Protect

Industry-leading fiberglass and polymer concrete vault solutions designed for durability and superior structural protection.

PATRIOT PIPE
TOUGH · TRUSTED · PATRIOT

Premium HDPE conduit, recently expanded to offer sizes ranging from 1" to 4" for robust underground cable protection.

C-CAST™
STRENGTH FOR TOMORROW

Our advanced precast concrete division. This line covers traditional underground applications and innovative aerial solutions, featuring a cost-effective, three-size concrete pole design optimized for rural areas.

OUR JOURNEY

2022

Foundations: Established as a trusted distributor of fiberglass enclosures, serving the rapidly growing telecommunications industry.

2023

Manufacturing Leap: Initiated the in-house manufacturing of polymer concrete and fiberglass vaults to address the high demand for fiber-optic network installations.

2024

Global Expansion: Scaled production capacity and expanded our market footprint, initiating exports to Canada and Europe while launching our precast concrete product line.

2025

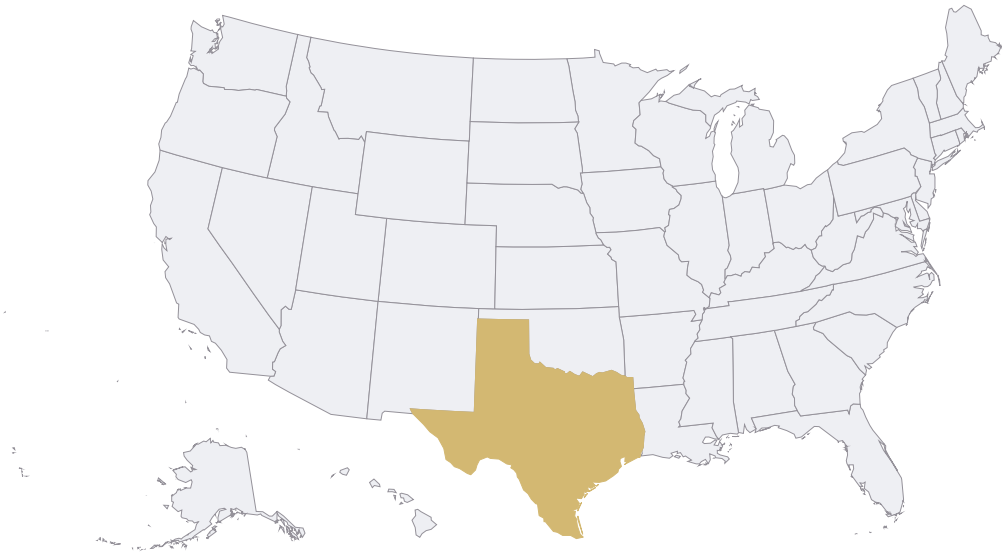
Portfolio Diversification: Responded to industry needs by launching the production of High-Density Polyethylene (HDPE) conduit in sizes from 1″ to 3″.

2026

Brand Consolidation: Registered three specialized divisions to better serve our markets and established a nationwide representative network to provide local, agile support.



CESCA USA® integrates material engineering, standard product families, custom configurations and logistics support. Project documentation and model-specific load compliance should be confirmed for each application.



MANUFACTURING FOOTPRINT

LIBERTY COUNTY, TX

CESCA's published BABA/BEAD product records identify *Liberty County, Texas* as the manufacturing location for listed enclosure and conduit products.

PROJECT SUPPORT

CUSTOM ENGINEERING

In-house support for nonstandard dimensions, conduit openings, product drawings and application-specific configurations.

COMMERCIAL QUALIFICATIONS AND INDUSTRY STANDARDS

Source lists specific products for domestic-content program eligibility; verify each exact SKU and project conditions.

CESCA materials describe service-disabled veteran-owned small-business qualification.

Industry load and enclosure standards are referenced; documentation applies by tested product/model.

Commercial material identifies Minority Business Enterprise certification.

CESCA VAULT

Built to Last. Engineered to Protect

Engineered for heavy-duty grade-level application, **CESCA VAULT™** offers robust subterranean enclosures built from advanced polymer concrete, lightweight fiberglass composites, and structural precast formulations. Designed to protect critical optical fiber splices, transformer connections, and pull points under demanding physical conditions.

STRENGHTS

Once production begins, shipping capacity reaches up to 10 truckloads (TL) per month for polymer concrete and fiberglass products.

Analysis, design translation, and dimensional modifications tailored to specific project architectures performed at no extra cost.

All vaults include integrated Electronic Marker System (EMS) markers for precise location at zero additional cost.

INTEGRATED EMS TECHNOLOGY

Every **CESCA VAULT™** model comes with an integrated, passive **Electronic Marker System (EMS)** to help crews quickly and accurately locate underground vaults using compatible locating equipment. Designed for long-term identification, this technology simplifies asset location and helps protect critical infrastructure.





LOCATE. IDENTIFY. PROTECT.

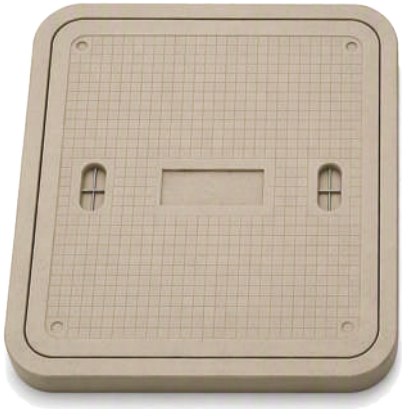
FEATURES

- Non-metalic
- Chemical & Moisture Resistant
- UV Resistant
- Non-Conductive
- Impact Resistant
- High Strength Composite



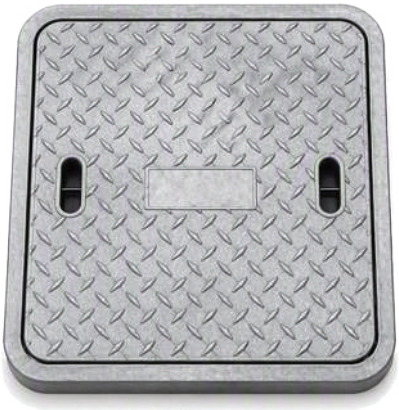
CUSTOMIZABLE LID OPTIONS

Engineered to meet specific load ratings, environmental conditions, and utility requirements.



Polymer Concrete
T15 & T22 Compliant

Corrosion Resistant:
Ideal for harsh soils.
Lightweight:
Reduces installation labor costs.
Non-Conductive:
Safe for power & telecom.
Custom Markings:
Custom logos available.



Galvanized Steel
H-20 & T22 Compliant

High Strength:
Ideal for driveway traffic.
Impact Resistant:
Withstands heavy loads.
Cost-Effective:
Great price/performance.
Galvanized A36:
Anti-corrosion coating.



Iron Cast (Ductile)
Heavy Vehicular

Maximum Strength:
Extreme traffic areas.
Exceptional Durability:
Long-term lifespan.
Tamper Resistant:
Added heavy security.
Proven Standard:
Critical infrastructure.



AVAILABLE MODELS

POLYMER CONCRETE

Standard & Custom Sizes | Load Ratings

Standards & Compliance
BABA Compliant | ANSI/SCTE Standards

SKU#	TYPE OF MATERIAL	SIZE" / RATING
CPC121212	POLYMER CONCRETE	12×12×12 T15
CPC111818	POLYMER CONCRETE	11×18×18 T15
CPC132412	POLYMER CONCRETE	13×24×12 T15
CPC132418	POLYMER CONCRETE	13×24×18 T22
CPC162018	POLYMER CONCRETE	16×20×18 T15
CPC487248	POLYMER CONCRETE	48×72×48 T15
CPC5610447	POLYMER CONCRETE	56×104×47 T15
CPC173012	POLYMER CONCRETE	17×30×12 T22
CPC173018	POLYMER CONCRETE	17×30×18 T22
CPC173024	POLYMER CONCRETE	17×30×24 T22
CPC173030	POLYMER CONCRETE	17×30×30 T22
CPC243618	POLYMER CONCRETE	24×36×18 T22
CPC243624	POLYMER CONCRETE	24×36×24 T22
CPC243630	POLYMER CONCRETE	24×36×30 T22
CPC243636	POLYMER CONCRETE	24×36×36 T22
CPC303034	POLYMER CONCRETE	30×30×34 T22
CPC304818	POLYMER CONCRETE	30×48×18 T22
CPC304824	POLYMER CONCRETE	30×48×24 T22
CPC304830	POLYMER CONCRETE	30×48×30 T22
CPC304836	POLYMER CONCRETE	30×48×36 T22
CPC306036	POLYMER CONCRETE	30×60×36 T22
CPC306048	POLYMER CONCRETE	30×60×48 T22
CPC363636	POLYMER CONCRETE	36×36×36 T22
CPC366024	POLYMER CONCRETE	36×60×24 T22
CPC366030	POLYMER CONCRETE	36×60×30 T22
CPC366036	POLYMER CONCRETE	36×60×36 T22
CPC484848	POLYMER CONCRETE	48×48×48 T22
CPC366048	POLYMER CONCRETE	36×60×48 T22
CPCS243624	POLYMER CONCRETE	24×36×24
CPC10R18D	POLYMER CONCRETE	10Rx18D
CPCVC10R18D	POLYMER CONCRETE	10Rx18D



36" x 36"



36" x 60"



17" x 30"

AVAILABLE MODELS

FIBERGLASS

Standard & Custom Sizes | Load Ratings

Standards & Compliance
BABA Compliant | ANSI/SCTE Standards

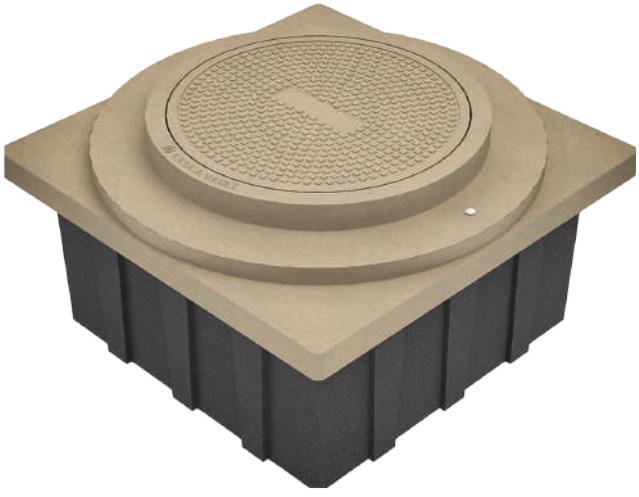
SKU#	TYPE OF MATERIAL	SIZE / RATING
CFPC1218	FIBERGLASS	12×18 T15
CFPC1224	FIBERGLASS	12×24 T15
CFPC173012	FIBERGLASS	17×30×12 T15
CFPC173018	FIBERGLASS	17×30×18 T15
CFPC173024	FIBERGLASS	17×30×24 T15
CFPC243618	FIBERGLASS	24×36×18 T15
CFPC243624	FIBERGLASS	24×36×24 T15
CFPC243630	FIBERGLASS	24×36×30 T15
CFPC243636	FIBERGLASS	24×36×36 T15
CFPC173012	FIBERGLASS	17×30×12 T22
CFPC173018	FIBERGLASS	17×30×18 T22
CFPC173024	FIBERGLASS	17×30×24 T22
CFPC243618	FIBERGLASS	24×36×18 T22
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CFPC243630	FIBERGLASS	24×36×30 T22
CFPC243636	FIBERGLASS	24×36×36 T22
CFPC304836	FIBERGLASS	30×48×36 T22
CFPC306048	FIBERGLASS	30×60×48 T15
CPFC306048F	FIBERGLASS	30×60×48 T22
CPFC366036	FIBERGLASS	30×60×36 T22
CPFC489648	FIBERGLASS	48×96×48 T15
CFPC443T22	FIBERGLASS	4×4×3 T22
CFPC4910048	FIBERGLASS	49×100×48 T15
CPFC334530	FIBERGLASS	33×45×30
CFPC474735	FIBERGLASS	47×47×35
CFPC132418	FIBERGLASS	13X24X18 T22



12″ x 18″



30″ x 48″



4′ x 4′ x 3′

INFRASTRUCTURE IN ACTION

Real installation activity and illustrated conduit deployment.



JOBSITE INSTALLATION / UNDERGROUND NETWORK ACCESS





PATRIOT PIPE™ manufactures high-density polyethylene (HDPE) smoothwall conduit systems designed to protect fiber-optic cables and underground utility lines. Engineered for durability, reliability, and long-term performance in modern infrastructure applications.



Once production begins, shipping capacity reaches up to 24 truckloads (TL) per month for polymer concrete and fiberglass products.

TECHNICAL SPECIFICATIONS

TEST	STANDARD	VALUE	UNIT
Ovality	ASTM D2122	< 5	%
Eccentricity	ASTM D2122	< 12	%
Crush Resistance (40%)	ASTM F2160	No breaks or fractures	—
Impact (D Dart)	ASTM D2444	No breaks or fractures	—
Elongation	ASTM D638	> 400	%
Tensile Strength	ASTM D638	> 10	MPa
Hardness	ASTM D2240	60 – 68	Shore D
Melt Flow Index	ASTM D1238	0.1 – 0.4	g / 10 min
Relative Density	ASTM D792	0.94 – 0.96	g/cm³

PRESENTATION & OPTIONS

SPECIFICATION	VALUE
Presentation	Bundled coil or straight section
Metal Reel	Included
Pre-installed Tape	Optional (not included)
Configuration	Single

PRODUCT SPECIFICATIONS

SPECIFICATION	VALUE
Product Type	Smoothwall
Marerial	High-Density Polyethylene (HDPE)
Interior Finish	Smooth
Manufacturing Standards	ASTM
Standard Colors	

AVAILABLE MODELS

SMOOTHWALL

Standards & Compliance
BABA Compliant



SKU#	PRODUCT CATEGORY	PRODUCT DESCRIPTION
CPP1-13.5	HDPE CONDUIT	HDPE Conduit, 1", SDR 13.5
CPP1-11	HDPE CONDUIT	HDPE Conduit, 1", SDR 11
CPPT1-13.5	HDPE CONDUIT	HDPE Conduit, 1", SDR 13.5
CPPT1-11	HDPE CONDUIT	HDPE Conduit, 1", SDR 11
CPP1.25-13.5	HDPE CONDUIT	HDPE Conduit, 1-1/4", SDR 13.5
CPP1.25-11	HDPE CONDUIT	HDPE Conduit, 1-1/4", SDR 11
CPPT1.25-13.5	HDPE CONDUIT	HDPE Conduit, 1-1/4", SDR 13.5
CPPT1.25-11	HDPE CONDUIT	HDPE Conduit, 1-1/4", SDR 11
CPP1.5-13.5	HDPE CONDUIT	HDPE Conduit, 1-1/2", SDR 13.5
CPP1.5-11	HDPE CONDUIT	HDPE Conduit, 1-1/2", SDR 11
CPPT1.5-13.5	HDPE CONDUIT	HDPE Conduit, 1-1/2", SDR 13.5
CPPT1.5-11	HDPE CONDUIT	HDPE Conduit, 1-1/2", SDR 11
CPP2-13.5	HDPE CONDUIT	HDPE Conduit, 2", SDR 13.5
CPP2-11	HDPE CONDUIT	HDPE Conduit, 2", SDR 11
CPPT2-13.5	HDPE CONDUIT	HDPE Conduit, 2", SDR 13.5
CPPT2-11	HDPE CONDUIT	HDPE Conduit, 2", SDR 11
CPP2.5-13.5	HDPE CONDUIT	HDPE Conduit, 2-1/2", SDR 13.5
CPP2.5-11	HDPE CONDUIT	HDPE Conduit, 2-1/2", SDR 11
CPPT2.5-13.5	HDPE CONDUIT	HDPE Conduit, 2-1/2", SDR 13.5
CPPT2.5-11	HDPE CONDUIT	HDPE Conduit, 2-1/2", SDR 11
CPP3-13.5	HDPE CONDUIT	HDPE Conduit, 3", SDR 13.5
CPP3-11	HDPE CONDUIT	HDPE Conduit, 3", SDR 11
CPPT3-13.5	HDPE CONDUIT	HDPE Conduit, 3", SDR 13.5
CPPT3-11	HDPE CONDUIT	HDPE Conduit, 3", SDR 11
CPPT4-13.5	HDPE CONDUIT	HDPE Conduit, 4", SDR 13.5
CPPT4-11	HDPE CONDUIT	HDPE Conduit, 4", SDR 11
CPPT6-13.5	HDPE CONDUIT	HDPE Conduit, 6", SDR 13.5
CPPT6-11	HDPE CONDUIT	HDPE Conduit, 6", SDR 11



PATRIOT PIPE
TOUGH · TRUSTED · PATRIOT

HDPE SDR 11

Underground duct / Application guidance

KEY PRODUCT BENEFITS

FLEXIBLE INSTALLATION	HDPE flexibility accommodates routing needs in suitable underground installations.
LONG DUCT RUNS	Coils or suitable installation methods may reduce the number of joints versus rigid stick conduit.
PVC ALTERNATIVE	An option to evaluate for approved underground electrical and telecommunications duct projects.

TEMPERATURE / COMPANY TEST

221°F / 105°C

CESCA USA® -reported test result. The submitted sales sheet states resistance up to this temperature under the conditions tested. It does not establish a universal ambient-use, continuous-service or UL rating.

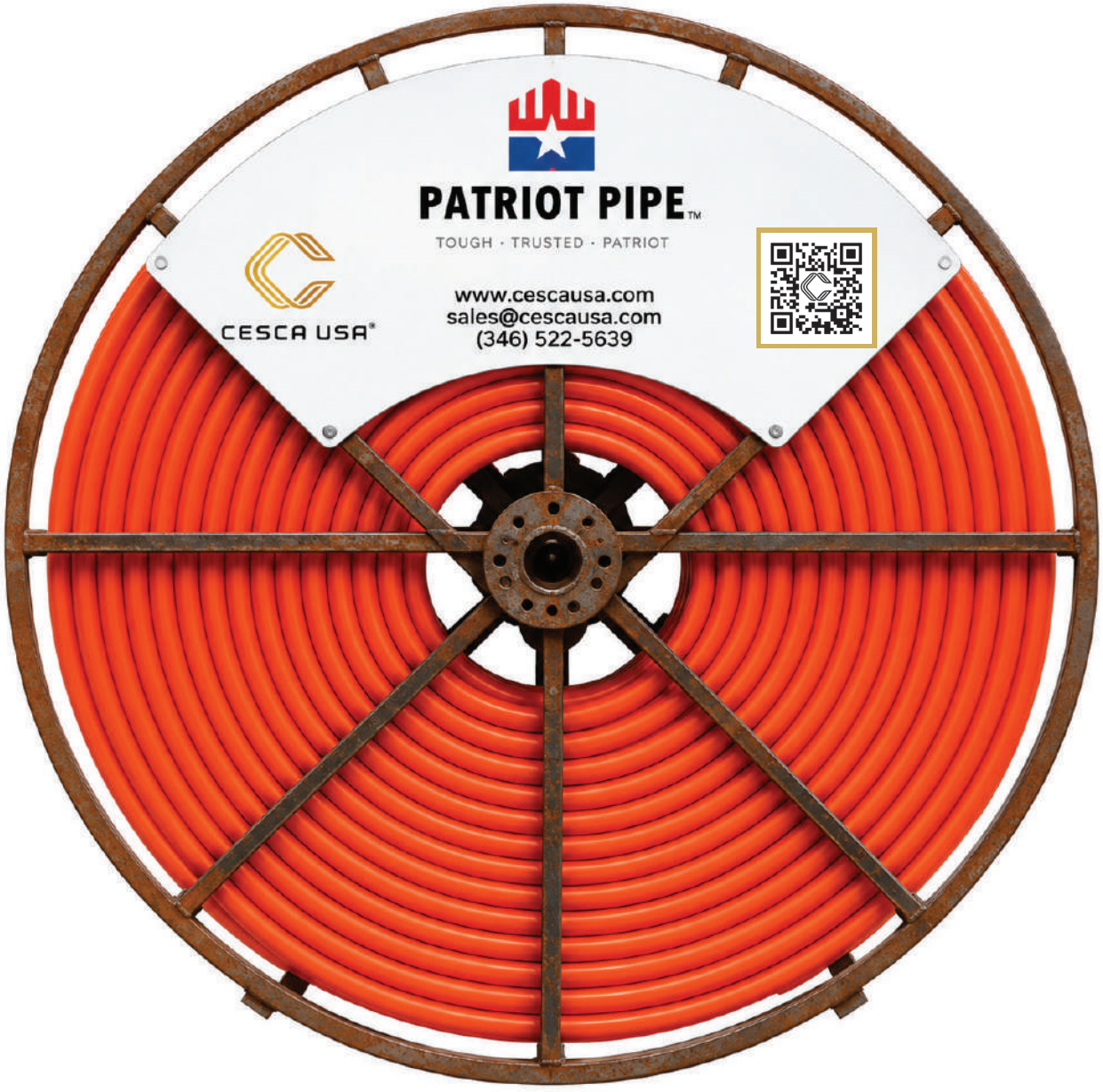
APPLICATION / COMPLIANCE CHECK

Confirm product listing, design criteria, joining method, installation requirements and engineer / Authorit Having Jurisdiction (AHJ) approval. For formal submittals, provide the test method, duration, acceptance criteria and current product documentation.

Reference context: The supplied sheet cites UL 651A ambient-use conditions of 122°F (50°C) or lower for covered HDPE conduit. Cable temperature ratings are separate from conduit service limits. BABA / Buy America documents should be supplied when required.

AVAILABLE SIZES





PATRIOT PIPE

TOUGH · TRUSTED · PATRIOT

HDPE CONDUIT COUPLER

The OSP-2ERS joins HDPE duct in underground fiber optic conduit runs. The push-fit joint is sealed by an EPDM Oring and rated to 250 psi, and it works with both cable pulling and air-assisted jetting. A transparent center section lets the installer check the position of each duct end. The short body suits narrow trenches and tight excavations.

KEY FEATURES

250 PSI Rated Pressure. EPDM O-Ring Seal Against Water and Air.

Non-Metallic Construction.

Transparent Center for Duct Position Verification.

Compatible with Cable Pulling and Air-Assisted Jetting.

Hand Assembly in the Field.



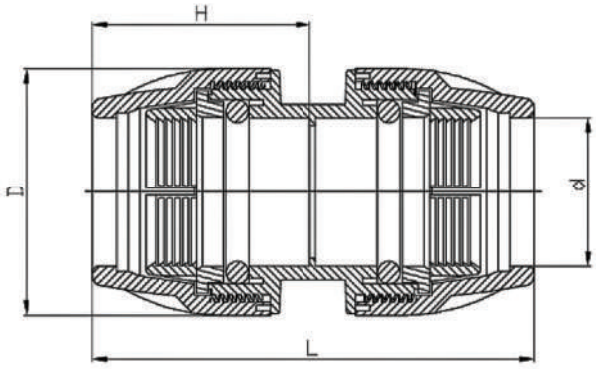
PRODUCT SPECIFICATIONS



SPECIFICATION	DESCRIPTION
Body Material	ABS
Seal Marerial	EPDM
Duct Compatibility	HDPE, 1″–2″ nominal
Rated Pressure	250 psi
Installation	Hard Assembly
Application	Cable Pulling / Air-Assisted Jetting

SIZES & DIMENSIONS

MODEL	DUCT SIZE	DUCT OD RANGE (IN)	BODY DIA. (MM)	LENGTH (IN/MM)
OSP-2ERS-100	1″	1.305 – 1.325	57.2 ± 0.5	3.6 / 91.4
OSP-2ERS-125	1.25″	1.650 – 1.670	72.3 ± 0.5	5.0 / 127.0
OSP-2ERS-150	1.5″	1.890 – 1.910	82.5 ± 0.5	5.5 / 139.7
OSP-2ERS-200	2″	2.365 – 2.385	102.7 ± 0.5	7.0 / 177.8



COMPONENTS



C-CAST™
STRENGTH FOR TOMORROW

04

Engineered for reliable utility infrastructure, **C-CAST™** delivers durable precast concrete solutions for both underground enclosures and aerial applications. Featuring robust concrete vaults and an innovative three-size utility pole system optimized for rural environments, **C-CAST™** provides cost-effective, long-lasting performance for demanding telecommunications and utility networks.

Once production begins, shipping capacity reaches up to 14 truckloads (TL) per month for polymer concrete and fiberglass products.

AVAILABLE MODELS

PRECAST

Standard & Custom Sizes | Load Ratings

SKU#	PRODUCT CATEGORY	SIZE"
C-CASTP23	PRE-CAST	Pole 23'
C-CASTP30	PRE-CAST	Pole 30'
C-CASTP40	PRE-CAST	Pole 40'
C-CASTP43	PRE-CAST	Pole 43'
C-CAST484848	PRE-CAST	48×48×48
C-CAST121212	PRE-CAST	12×12×12 T15
C-CAST111818	PRE-CAST	11×18×18 T15
C-CAST173024	PRE-CAST	17×30×24 T15
C-CAST243624	PRE-CAST	24×36×24 T15



17" x 30"



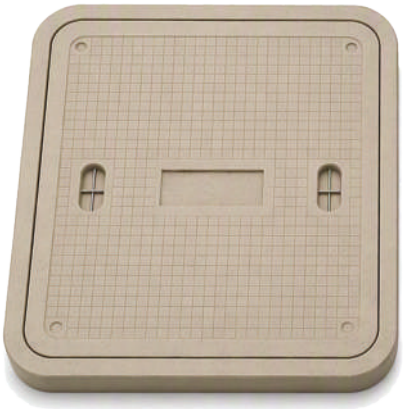
24" x 36"



Pole 23'

CUSTOMIZABLE LID OPTIONS

Engineered to meet specific load ratings, environmental conditions, and utility requirements.



Polymer Concrete
T15 & T22 Compliant

Corrosion Resistant:
Ideal for harsh soils.
Lightweight:
Reduces installation labor costs.
Non-Conductive:
Safe for power & telecom.
Custom Markings:
Custom logos available.



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H-20 & T22 Compliant

High Strength:
Ideal for driveway traffic.
Impact Resistant:
Withstands heavy loads.
Cost-Effective:
Great price/performance.
Galvanized A36:
Anti-corrosion coating.



Iron Cast (Ductile)
Heavy Vehicular

Maximum Strength:
Extreme traffic areas.
Exceptional Durability:
Long-term lifespan.
Tamper Resistant:
Added heavy security.
Proven Standard:
Critical infrastructure.



CESCA USA®

CESCA USA®, Design, Solutions, and Efficiency define the value we deliver to our customers. We remain committed to pushing the boundaries of infrastructure technology, continuous product improvement, and being the reliable, agile partner your projects deserve.

TRUSTED PROTECTION
HERE TO HELP YOU BUILD

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