

Composite Access Products

Manufacturing the First Compression Molded, Traffic-Rated Composite **Utility Access Covers in the USA**









Innovation, Infrastructure, US Manufacturing

CAP WINS NATIONAL COMPOSITES AWARD

CAMX EXPO

Winners for 2020 Award for Composites Excellence (ACE) announced

With rising construction activities worldwide, the manhole cover market is expanding. Through the collaboration between LyondellBasell and Composite Access Products (CAP; McAllen Tex., U.S.), composite solutions are replacing traditional materials like metal and concrete used in manhole applications due to its superior properties like strength, corrosion resistance and molding



LyondellBasell and Composite Access Products (CAP) collaborated to replace traditional materials like metal and concrete used in manhole applications with composites. Photo Credit: ACMA

capabilities. Through CAP's compression molding process of LyondellBasell's thermoset material, cost improvements and rapid production cycles are realized when compared to resin transfer molding (RTM) and other fiberglass (FRP/GRP) casting processes. This process enhances quality by reducing entrapped gas, ensuring a complete thermoset polymer cure, delivering fully impregnated fiberglass and eliminating many post-process operations.



Only State DOT Composite Approval Letter for "Within the Roadway" Use



08/01/2017

W. Chad Nunnery Composite Access Products L.P. 5216 N. 26th Street McAllen TX, 78504

Re: RTI New Product Evaluation Tracking #16-2979 "Composite Manhole Cover and Frame"

Dear Mr. Nunnery:

Thank you for submitting your product for evaluation. The Texas Department of Transportation's (TxDOT) Maintenance (MNT) and Bridge (BRG) Divisions has reviewed your request for approval of the Composite Manhole Cover and Frame along with the approved HS-20 and HS-25 testing.

TxDOT approves the use of the Composite Manhole Cover and Frame when being placed outside the roadway/clear zone and within the roadway/clear zone on low speed (<=45 mph) roadways.

A Special Specification will be required for the TxDOT District's use, to include, at a minimum, addressing measurement and payment, materials, loading, wear and abrasion, UV exposure, friction, and bolting/locking mechanisms.

This letter shall not be considered a product endorsement nor shall it be used for promotional purposes.

Thank you for contacting the Texas Department of Transportation. If you have further questions, please contact me at 512-416-4730.

Sincerely,

Chris Glancy Research Project Manager Research and Technology Implementation Office

cc Rocio Perez cc Taya Retterer



OUR GOALS MAINTAIN A SAFE SYSTEM • ADDRESS CONGESTION • CONNECT TEXAS COMMUNITIES • BEST IN CLASS STATE AGENCY An Equal Opportunity Employer

CAP Installed in over 400 US Cities, 45 States!



The CAP Value Proposition –

How will CAP Compression Molded Composite Covers & Frames Benefit My Municipality?

1.Reduction of Stormwater Inflow Into Sanitary Sewer

Reduction of Infiltration & Inflow (I&I) Reduces Sanitary Sewer Overflows (SSOs). Compression Molded Composites vs. Casted/Forged Iron Provide Design Flexibility and Tighter Tolerances For Complete Watertight Solution

STORM WATER RUNOFF – LEADING SOURCE OF WATER POLLUTION

32 TRILLION GALLONS OF POLLUTED WATER FROM SEWAGE, CHEMICALS, AND WASTE -Nature Conservancy, Summer 2019 Issue

Sanitary Sewer Overflows (SSOs)

Infiltration and Inflow (I&I)





CAP Watertight Covers Stop Inflow & Eliminate Sewer Spills

Fresh Water Pollution from Storm Water Inflow & Sewer Spillovers with Traditional Manhole Covers



July 24, 2021 Brownsville Herald



Troubled waters: Infrastructure woes dirty some Texas beaches

"Last year, 55 out of 61 beach locations monitored by Texas Beach Watch for fecal indicator bacteria were potentially unsafe for swimming on at least one day"

Inflow Through Some Standard Covers Today = about 45 GPM



If submerged year-round, this one manhole assembly would contribute 23 million gallons of inflow!!!

Simulation of Inflow in a Tank at Louisiana Tech through a traditional cover and frame submerged under six inches of water. Thanks to Eric Dupre for permission to use this video.

Video of Watertight CAP Covers



Merely installing below grade can cause submerged situations



PROVEN TEST RESULTS OF ZERO LEAKAGE

DOCUMENTATION OF I&I REDUCTION

SHOW YOUR EFFORTS TO STATE AND FEDERAL AGENCIES

San Antonio Water Systems (SAWS) CAP o.oo Gallons per Minute Validation



Composite Compression Molding vs Iron Forging Allow for Tighter Design Tolerances

Composite Molding Vs. Iron Casting...

One Mold for ALL Covers and Frames Eliminates Part-to-Part Variation



Different Casts for EACH Cover and Frame Introduces Part-to-Part Variation



CASE STUDY: FULTON COUNTY, GA ELIMINATES SEWER OVERFLOWS INTO CHATTAHOOCHEE RIVER



"We have recently experienced a large rain event and for the first time in the history of the county we had no sewer spills, none what so ever. It had been an ongoing problem for over 30 years and we are proud, through a team effort, to have reached that milestone."

-Roy Barnes

Deputy Director Public Works (May 2021)



https://www.youtube.com/watch?v=YqIox8dKW1Q

Gift the Keeps on Giving



"It was the first time in the history of the county that we had no reported spills."

– Roy Barnes

BETTER MOUSETRAPS: ONLINE

DATA MANAGEMENT FOR FOG

HUMAN SIDE: FIGHTING WORKPLACE RACISM

STAYING SAFE: LIGHT

THE PATH TO SAFETY

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SHUTTING **DOWN INFLOW**

Georgia utility finds a watertight manhole solution that puts an end to chronic SSO problems By Kyle Roger

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that we had no reported spills

WHAT WE VE TEALTIED IS YOU definitely need to address the low-hanging fruit, the known areas of I&I." - Roy Barnes

ampy terrain. Wetland Equipment mpany, based in Thibodaux. Louis

tertight to stop the inflow



The Fulton County Wastewater team Includes (from left) heavy equipment operator Jerry Jones, construction manager Steve Jackson, Deputy Director Roy O. Barnes Jr., senior crew supervisor Craig Daniels and heavy equipment operator Jonas Tobler.

tation about the utility's work at the Water Envi- ting an end to that inflow, the cause of so many ronment Federation's Technical Exposition and problems like chronic SSOs. His crews like them too. Conference in the future "They're much lighter, they're easier to work

"What we've learned is you definitely need to with, and they do what they are supposed to do. address the low-hanging fruit, the known areas of They keep the water out," Barnes says. + 18-1. That's kind of common sense, but it's important. If you interview your frontline staff, they'll show you the problem areas," Barnes says. "If you do have flow monitoring, look at the data. Try to address the areas where you know there is a lot of inflow." And from there, CAP's composite rings and covers have Barnes' endorsement as a solution to put-

TURED PRODUCTS FROM: Composite Access Prime Resins Products (CAP) 800-321-7212 844-344-227 (See ad page 0) www.justcapthat.com (See of page 0)

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Georgia utility finds a watertight manhole solution that puts an end to chronic SSO problems

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I&I Costs of Standard Covers Solve by CAP Covers...Beyond the Price Tag

Sain Guards to reduce I&I (\$50-\$160 per unit)

\$Added Wastewater treatment operation costs

\$ More electricity cost for higher than needed pump run times

\$EPA fines from SSO events

\$Higher capital investment to manage I&I rainfall peaks with

larger treatment capacity

2.AVOID CORRODED IRON

POLYMER SOLUTIONS HAVE BEEN IMPLEMENTED THROUGHOUT SANITARY COLLECTION SYSTEMS TO RESIST HYDROGEN SULFIDE EFFECTS (E.G. Cured in Place Piping (CIPP), FRP MANHOLES, FIBERWOUND TANKS, POLYETHENE RISER RINGS, ETC.) - MANHOLE COVERS ARE NEXT

Corroded Iron Covers Stick to Frames Requiring Unsafe and Damaging Practices



H2S and Subsequent Impact Mechanically Degrade Covers and Frames





Hammer Time!



The seat for the cover is completely degraded and the frame ID is flush. The Cover is virtually riding on air!



Recent photo of Iron Cover Dropping into Corroded Iron Frame



EXTEND SEWER LIFE WITH CAP

After Eight Months in the Sanitary Sewer...

(Mechanical Property Lab Test Specimens Shown Below)

Traditional Manhole Cover Material - Cast Iron



Manhole Cover Material – CAP Composite



Are manhole covers in your city's roads still traffic-rated?

NOTE: Both test bar specimens were hung in the same actual sanitary sewer exposed to extreme - but realistic- conditions (~ 2000 ppm H₂S) to provide an accelerated life test for corrosive sewer environments. May not be representative of all manhole cover locations or traditional cover materials. Traditional cover material results may also differ by manufacturer, processes, and post-process treatments.

3. ELIMINATE ROOT CAUSE OF THEFT : SCRAP METAL CONTENT

THIEVES STEAL COVERS FOR MONEY THEY CAN GET FROM SCRAP YARDS – THIS RESULTS IN A POTENTIAL PEDESTRIAN DANGER IN ADDITION TO MUNICIPAL COST. COMPOSITE HAVE NO SCRAP VALUE AND ELMINATE ROOT CAUSE.



Theft for Recycle Metal

- Theft of Metal Covers costs hundreds of millions of dollars per year. A replacement cover costs \$300-\$800 (depending on install cost)
- Composite covers have no recycled value.





15 feet deep he said



Pedestrian Hazards

Woman dies after falling into Baltimore manhole

UPDATED 5:59 PM EDT Jul 11, 2016



BALTIMORE — Fire officials say a woman has died after falling and becoming trapped in a manhole near downtown Baltimore.

HOME > NEWS > LOCAL

Posted: 4:41 p.m. Thursday, Feb. 21, 2013

Campaign worker who fell in manhole reaches settlement





NSB-TV

Denethia McCall says she fell in an open manhole on Joseph E. Lowery Boulevard in southwest Atlanta.

Related

ATLANTA — A woman who said she was seriously injured when she fell into an open manhole while campaigning for View Larger & Atlanta Mayor Kasim Reed has reached a settlement with the



Denethia McCall told Channel 2's Rachel Stockman she was walking along Joseph E. Lowery Boulevard in southwest Atlanta while canvassing the neighborhood on behalf of Reed.

WSB-TV Denethia McCall says she fell in an open manhole on Joseph E. Lowery Boulevard in southwest Atlanta.

McCall said there were a lot of leaves on the ground and she fell into the uncovered manhole.



October 19, 2017



NEWS

Houston Man Stuck in Manhole for Nine Days Tells His Story

4.SAFE LIFTING WEIGHT





Lifting Safety

32 inch cast iron cover is **190 lbs – 300 lbs!** *This is unsαfe !*

A 32 inch composite cover is 55-110 lbs. A 24 inch composite cover is 40-80 lbs.

Fact:

Calculated Cost For Each Back Injury Incident:

\$70,000!!! (Southern California Edison)





Special Lifts...But Now how to get to and from the truck bed? And Cost?

Quick, Safe, and Easy of Install – Cost



- Eliminate Cranes, Attachments to Lift Frames and Covers
- Decrease Labor times for each install
- Reduce time to coordinate and locate all these resources
- Reduce injuries of hands, toes, backs

CAP's frames are between 40-50 lbs. This allows an individual to carry two (one per shoulder) at one time from stock yard, truck, and to the install location.



Costs of Iron Covers That Are Removed or Reduced with CAP...Beyond the Price Tag

Corrosion Costs

- \$ Anti-corrosion coatings
- \$ Replacement Costs for Corroded Covers (parts, labor, traffic control)
- \$ Labor and Worker Injury Costs when fighting to open corroded covers
- **\$** Skipped maintenance due to frozen covers

Theft Costs

- \$ Replacement Costs for Stolen Covers (parts, labor, traffic control)
- Public Relations Shame and Embarrassment (of pedestrian injury from falls, burns, shocks)

<u>I&I Costs</u>

- \$ Rain Guards to reduce I&I
- \$ Added Wastewater treatment operation costs from I&I
- **\$** EPA fines from SSO events
- \$ Higher capital investment to manage I&I rainfall peaks with larger treatment capacity

Heavy Cover Costs

- \$ Workman's Comp. and Disability Costs from back, finger and toe injuries
- **\$** Specialized Lifting Tools for heavy covers
- **\$** Employee Morale
- S Installation Speed, Capital, Labor, Workman's Comp.,

5. TRANSMISSION OF DATA

TO ACHIEVE "SMART INFRASTRUCTURE" MANY METERS AND SENSORS ARE BECOMING AVAILABLE TO RECORD AND ALERT **MUNICIPALITIES OF SEWER / UTILITY** HOLE CONDITIONS. METAL BLOCKS **TRANSMISSION SIGNALS REQUIRING** HOLES DRILLED THROUGH THE SURFACE (ALLOWING I&I). COMPOSITES ARE TRANSPARENT TO **TRANSMISSION SIGNALS.**



I stood on it for an hour Nothing happened...

They should have "Just CAP That!"



Wave Permeability



No antennae, antennae holes, or antennae protectors needed!

Waves Transmit Through Composites But Absorbed by Iron

Photo Shows Antenna Penetration from Underside and Recommended "Shields" to Protect Antennae

Molded-In Attachment Points for Added Technology — No Drilling, Screwing, Machining Needed



Cellular Transmission Through CAP Cover (No Antennae Hole) Validated in Abilene, TX



Recent Case Studies: Water Covers

 McKinney & DFW TX, Q1 2021, Made CAP cover of choice for water maintenance vaults. CAPs on underground valve/meter access points watertight eliminates need to "dewater" before entering.

 Irving, TX – Q2 2021, Tested CAP for use of their AMI meter/transmitters under the cover without an antennae hole. They confirmed successful data transmission at multiple locations.



6. SUSTAINABILITY AND CARBON FOOTPRINT
Energy Consumption & Carbon Footprint





- Most iron foundries burn "coke" a high carbon content fuel source – for the energy.
- Upstream composite raw material streams use mainly natural gas for energy.
- A larger energy consumption + carbon fuel source = a greater carbon footprint.

Many Other Environmental Impacts



CAP processes reduce hazardous chemical emissions.

(Some casting processes produce dangerous toxins: carbon monoxide, hydrogen sulfide, sulfur dioxide, nitrous oxide, and benzene – a known human carcinogen)



US reporting and regulations for disposal, emissions, clean energy. (e.g. many traditional covers made w/o US regs)



No chemical coatings for corrosion resistance.

(e.g., Coal tar coatings: carcinogen, kill aquatic life, banned in several states and cities. USGS)



Watertight to help reduce the #1 cause of water pollution- SSOs



CAPs can be recycled though there is no scrap market like metals. (e.g. solid surface and cultured marble products. Reground composite used in GM 3800 valve)

CAP INNOVATIONS – DISRUPTING A 180 YEAR OLD INDUSTRY

 CAP HAS INTRODUCED A THERMOSET COMPOSITE OPTION THAT IS STRONG ENOUGH FOR TRAFFIC LOADS. IN ADDITION TO THE BASIC ADVANTAGE OF COMPOSITES, MANY CAP INNOVATIONS ARE NOW POSSIBLE TO ACHIEVE THE SMART INFRASTRUCTURE OF THE FUTURE.



CAPS ARE THERMOSET FIBERGLASS (NOT "PLASTIC")

Thermosets (CAPs)

Examples: Unsaturated Polyesters, Vinyl Esters, Phenolics (Bakelite), Urethanes, Epoxies, Silicones, Urea,



Irreversible Cure – Like Boiling an Egg

Thermoplastics

Examples: Polypropylenes (PP), Polyethylene, Polyvinylchloride (PVC), Polycarbonate, Nylon,



Phase Change – Like Melting Ice

THERMOSETS = STRENGTH, RIGIDITY, DIMENSIONAL STABILITY, LOW WATER ABSORPTION, THERMAL RESISTANCE (-6o TO 36o F)...DO NOT MELT, CREEP, EXPAND, CONTRACT

Proof Load Testing



 AASHTO H₂₅ PROOF LOAD TESTING – Independent Lab (UTRGV)

"Passed with flying colors"

- Cover Resists More than 100,000 lbs!
 - "Cover shows... remarkable retention of strength"

Dr Robert E. Jones Professor Undergraduate Program Coordinator Department of Mechanical Engineering (956) 665-5019 <u>robert.jones@UTRGV.edu</u>

Brownsville • Edinburg • Harlingen

Photo Show CAP's Onsite Proof Load Test Equipment

In the Roadway



Largest Mold Insert Space for Intricate Molded-In Logos



- Most pronounce tread and graphics of all composites
- Depth not possible with RTM (other US composite manufacturer)

Various Utility Indicators





Different Colors!



Not Merely Paint on The Surface Waiting to Rub Off... But Mixed Throughout the Entire Compound!

Cosmetic Options The CAP STONE: Granite, Desert Stone



Pavestones Caught the Chicken Pox?



quality of materials. I use this patio area for sitting and entertaining and fee very good knowing that it is safe to walk over or set a table as well as blending in with my yard area. Thanks! Great product. " - Keith Garrett,

Bringing Beauty to Infrastructure!

(Not Offered By the Other Composites)



Graphite SFL 4300

Winter Pines SFL 6300 Chambray SFL 7230

Blended Cosmetics - Not Paint!

Peach Freeze SFL 8000 Champagne SFX 3500



Denim SFL 7300

Many Stone Color Tones Available

Impossible with Iron!

Metal Detected Composite Covers Possible! (Proprietary Technology Allows Detection)





CAP RF - Encapsulated Radio Frequency IDs!

(Patent Pending)

Introducing The CAP RF

Composite covers with <u>encapsulated</u> radio frequency identification

- Asset tracking
- GIS Compatible
- Information available at fingertips
- No exterior antenna wire, battery, fasteners
- Molded-in Protection: RFID Will Not Corrode or Break off

All without opening the cover

Innovation, Infrastructure, Made-In-The-USA

Composite Access Products

Just CAP That!

GIS Location

Manhole ID

0257

naitude: -96.8053527694450

Flows To Lift Station ID

Invert / Flow Line

Rim Elevation

Impossible with Iron!

Both Bolt & Paddle Lock Options

Threaded Bolts

4 Bolts – 3.5 " $\times \frac{1}{2}$ " 13 316 SS Austenite with $\frac{1}{2}$ " Allen Head Standard





Paddle Locks

1 standard, all 316 stainless

Allen or Pentahead

Quarter turn latch

Best for Fast Open

Protective Pick Hole Clips For Both Side Pick Notch and Top Pick "Hook"



- Shields on pick lift areas to protect from the over aggressive user with a sharp metal pick
 - Top Hooks New Option on CAP ONE – 24. All
 features Molded In, NOT Machined



MADE-IN-THE-USA

- US Taxpayer Dollars for US Taxpaying Companies
- Batch to Batch reports?
- Improper Markings
- Test Data?
- Consistency?
- Robust Design?
- Lead Times?



- Liability? (e.g. Lumber Liquidators)
- Environmental, Safety, Health Standards Serious about municipal codes, but buy from those who don't follow those same codes?

Compression Molding



800 tons of pressure at 300 F – 16 minutes

- High Volume, Affordable and Quality Production
- Capital Cost for Press and Molds Very Expensive
- Materials Preblended avoid lack of glass impregnation

CAP Compression Molded Composite Manhole Cover and Frame



- Molded with hundreds of tons of pressure
- Raw material preblended
- Continuous AND Short Fiber for both Structural and Surface Strength
- Fiber filaments completely impregnated not sheets of fiberglass
- No layers, no delaminating
- No voids

Other Composite Process "Resin Transfer Molding" (RTM)

Sheets and Layers of Fiberglass are Stacked

Low/No Pressure Mold

- Resin is sucked or pushed in chamber to impregnate fiberglass
- Resin flows through fiber layers and around features
- Resin Cures with low/no temperature with a chemical "exotherm" playing a role in process

Parts are demolded carefully to avoid surface defects





Lighter than Iron, But Not Frisbees! (Frisbees fly)



- CAP makes the heaviest composite cover but still half the weight of iron
- Resin Transfer Molding (RTM) vs. Compression Molding – strength to volume higher, but at the same strength, this just means it is smaller and lighter
- Deep cover walls also reduce potential accidental cover ejection OTHER

<u>CAP</u>



38.0lbs



CAP Frames Contains Over 50% More Material



<u>CAP</u> 47.5lbs



OTHER 30.5lbs



(24 inch Clear Opening)

Attractive Logos With Sharp Detail



Other Composite Shallow Surface

Detail Detail OFF ON ZERO OFF ON ZERO OFF ON ZERO

- Compression Allows Deeper Tread, Graphics, Text (between .100 .125 inches deep)
- Other Compression Option Tread is about .03 inches deep (1/3-1/5th as deep)
- Graphics molded in with CAP. Not Surface Decals that can wear off like other
- Angles of detail can be sharper with Compression Molding. RTM requires more rounded edges.

CAP's Detail 4x More Pronounced



Surface Integrity of RTM vs. CAP



• RTM surfaces can be "resin rich." This means fiberglass may not compose the surface. Resin rich areas of RTM can be weaker, blister, wear off faster

• CAP Compression Molded Covers have filaments of fiber reinforcement blended throughout the substrate – no resin rich surfaces

VENTED CAPS ALSO AN OPTION!



- CAP Vent Holes Molded-In... NOT Drilled
- Holes located on nonstructural areas
- Not Available / Possible with Other Composite
 - Would Likely be Post Process Drilled
 - Could Affect Strength

Photo on Right:

Underside of CAP has structural ribs providing traffic rated strength. Vent holes and hardward holes are placed outside of these supports to maintain strength.

ALL CAPS HAVE METAL DETECTION ENCAPSULATED IN SUBSTRATE

- Composite nor Stainless Steel Can be Metal Detected
- CAPs can be metal detected at least 6 feet away
- CAP uses proprietary technique to encapsulate technology – protecting from impact or chemical attack
- Other Composite may attach non stainless with screws or glue – will corrode or detach!





CAP's encapsulated technology – not attached – protected from impact and chemicals

CAP's Have an "Burping" Option: Can Relieve Surcharge without Ejecting the Cover



photo shows upward water flow through the cover and frame



Other Composite: Fastener Not

Spring-Loaded

- CAP makes "burping" covers as an option. If you want to prevent surcharge from entering residences or businesses
- CAP's spring-loaded latch option allows upward flow out of the system while keeping the cover hooked to the frame.
- Upward pressure compresses spring, opening gap between cover and frame
- Other Composite Covers do not have spring-loaded locks
- If you don't want a burping cover, we can always provide our 0.00 GPM watertight model.

CAP Molded Hardware Holes & Connection Points

- All holes and channels are molded in, NOT drilled and machined like Other Composite
- Machining composite surfaces exposes glass fiber filaments that will "wick" the rainwater affecting product life
- Molded holes and features maintain protective surface of resin.



CAP Molds-in Features Protecting Fiber





Other Composite Cover shows postprocess machining of the fastener holes. Glass Fiber can be seen exposed.

CAP Hardware Accessories

- All CAP metal hardware is 316 Stainless Steel to Prevent Corrosion
- All CAP threaded bolts and nuts are Xylan coated to help prevent galling or stripping of soft stainless-steel during overtightening
- CAP frames are molded with hardware alignment indicators



Fastening Systems: More Options, Robust Design

- CAP offers both threaded bolt (best for watertight) and also quarter turn latch (best for quick entry/exit)
- CAP's latch system has security pins to prevent disengaging locks during potential cover rotation
- CAP offers three fastener head options (hex, allen, penta)
- All Hardware Comes with Dirt Shield Covers



Paddle Unlocked





Bolt and Paddle Head Options



CAPs have molded in attachment points to bolt on sensors

- Holes on Cover Underside to add threaded inserts – molded, not post process drilling
- Mechanical locking anchor to prevent detachment of expensive technology hanging from cover
- Other Composite cover does not have this option – must screw or drill into composite exposing fiber filaments





Product Traceability

CAP Molds-In Manufactured Dates

 Every Cover Can Be Traced to Process Detail, Inspections, and Raw Material Lot Numbers

 Permanently Inscribed Compliant to AASHTO Standards for Marking



Not Drawn with marker or machined



Mounting and Anchoring Assembly







- Flange Fits Most Riser Rings
- Anchor through molded in flange holes





Washer and Nut Sit Securely with more Perpendicular Frame Flange – Wall Joint





CAP'S Perpendicular Flange-Wall junction







Production Lead Times-Days/Weeks, Not Months



Fun Fact: American made products don't get stuck on cargo ships...

NEW PRODUCT LAUNCH: CAP ONE -36



- 41" cover, 2"thick
- Est. 170 lbs
- H-25 +
- Top Hook
- 4 Bolts OR Paddle Locks
- 3 custom logo locations
- Metal Detectable

References From Major Specified Municipalities



Fulton County, GA

Roy Barnes

Deputy Director Reclamation

roy.barnes@fultoncountyga.gov

(404) 360-6895



composite Access Products

City of Fort Worth, TX Bill Lundvall 1608 11th Ave. Water Systems Superintendent Fort Worth, TX 73102 Cell 817-996-5848



<u>City of Chandler, AZ</u>

Alvin Robertson Wastewater Collections Superintendent (480)782-3596 Alvin.Robertson@chandleraz.gov
Thank you!



Sales and Customer Support Composite Access Products 5216 N.26th Street McAllen, TX 78504 1-844-344-CAP1 (1-844-344-2271) sales@CompositeAP.com www.justCAPthat.com