



DUROMAXX SRPE

Steel Reinforced Polyethylene Pipe

CNTTECH[®]
ENGINEERED SOLUTIONS
A QUIKRETE[®] COMPANY

AGENDA

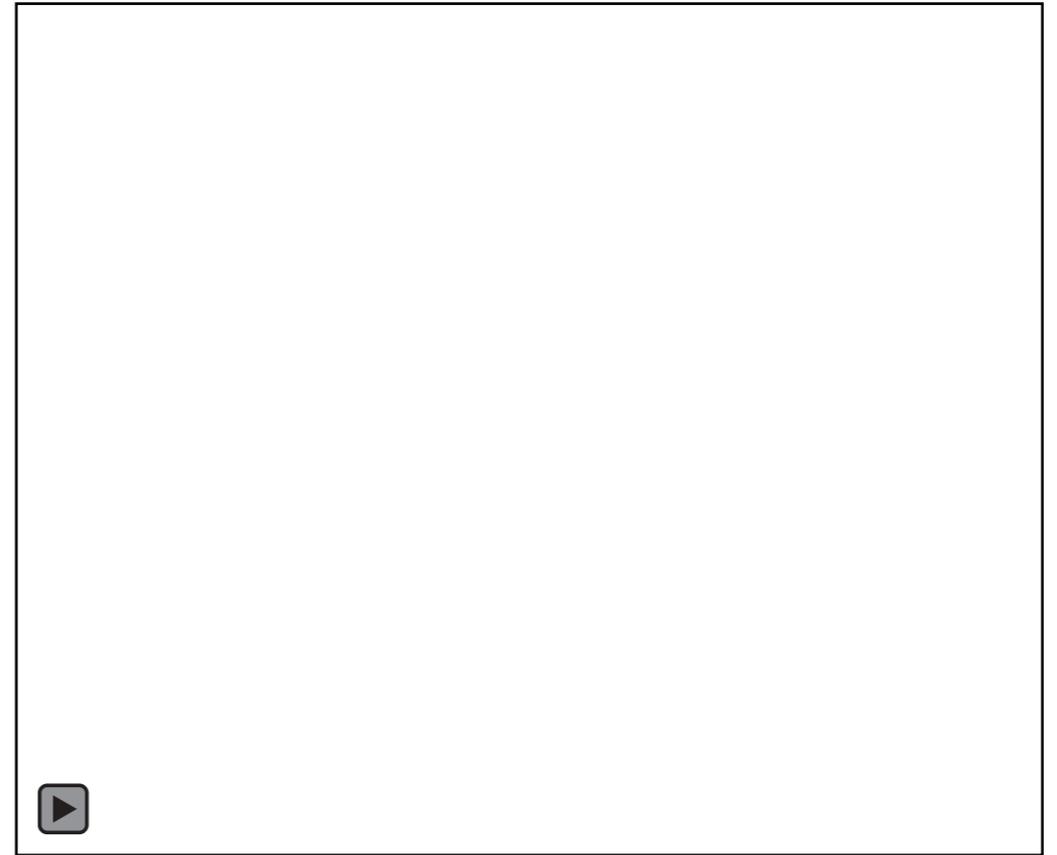
- 1 INTRO TO CONTECH
- 2 WHAT IS DUROMAXX
- 3 PROJECT EXAMPLES
- 4 HARD ARMOR AND ENERGY DISSIPATION



CONTECH[®]

ENGINEERED SOLUTIONS

Contech provides innovative, cost-effective site solutions to engineers, contractors and developers on projects across North America. Our portfolio includes stormwater management products, bridges, drainage, erosion control, retaining wall and sanitary sewer solutions.



<p>1900</p> <p>Hot-dipped GALVANIZED STEEL is developed by ARMCO research engineers to improve corrosion resistance.</p> 	<p>1909</p> <p>The AMERICAN ROLLING MILL COMPANY (formerly ARMCO/AK Steel, now known as Cleveland-Cliffs) was founded in Middletown, OH, as the first fully integrated steel mill in the U.S.</p> <p>A few years earlier, James Watson & Stanley Simpson were granted a U.S. PATENT FOR CORRUGATED METAL PIPE (CMP) as an alternative to masonry or vitrified clay tile.</p> 	<p>1931</p> <p>ARMCO DRAINAGE & METAL PRODUCTS was incorporated as a wholly owned subsidiary of ARMCO Steel, after consolidating 23 corrugated steel pipe manufacturers, beginning with Dixie Culvert in 1915. ARMCO published the first "Handbook of Drainage and Construction Products" which is still published today by the American Iron and Steel Institute.</p> 	<p>1941</p> <p>MULTI-PLATE® structural plate introduced to the market in 1931.</p> 	<p>1950</p> <p>ALUMINIZED TYPE 2 STEEL is developed. Steel is hot-dipped in aluminum to withstand highly corrosive environments.</p> 	<p>1960</p> <p>Realizing the increased dependence on the subsidiary as an outlet for steel, ARMCO formed the Metal Products Division and soon developed the highly automated HEL-COR® conversion process to manufacture CMP. This replaced conventional riving and allowed ARMCO to produce large diameter storm sewer pipe.</p> 	<p>1965</p> <p>Recognizing an opportunity to expand into the sanitary sewer market with a product designed to meet demanding burial conditions while providing best in class performance, ARMCO formed TRUSS PIPE Company, a joint venture with Ashland Oil, to introduce TRUSS PIPE® in 1965.</p> 	<p>1970</p> <p>To meet market demand for a better performing and more cost efficient sanitary sewer pipe, Contech launched PVC profile wall A-2000™ in 1984.</p> 	<p>1984</p> <p>The acquisition of the Drainage Products operations of Kaiser Aluminum and Chemical Corporation made Contech the leading producer of ALUMINUM corrugated pipe products, aluminum box culverts and aluminum structural plate.</p> 	<p>1986</p> <p>Contech® develops the spiral rib corrugation technology known as ULTRA FLO® which provides a smooth pipe interior with a Manning's "n" coefficient of 0.012.</p> 	<p>1988</p> <p>CONTECH® CONSTRUCTION PRODUCTS INC. was founded on July 1, 1986, when Robert Gage led a management buy-out of the Construction Products Division of ARMCO. For the next decade, Contech expanded its presence in the marketplace by introducing new steel, aluminum and PVC pipe products, with an unwavering goal to be the leader in each of its markets.</p> 	<p>2000</p> <p>Contech® acquires the two largest pedestrian truss bridge manufacturers in the U.S. - CONTINENTAL® BRIDGE and STEADFAST BRIDGE®.</p> 	<p>2004</p> <p>Contech® acquires the only major stormwater filter products company in the U.S., STORMWATER MANAGEMENT, INC.</p> 	<p>2005</p> <p>Contech® acquires VORTECHNICS - a first step to becoming the industry leader in the rapidly expanding stormwater treatment market.</p> 	<p>2006</p> <p>Contech® acquires CDS TECHNOLOGIES, INC. - the developer of a stormwater treatment solution known as continuous deflection separation.</p> 	<p>2010</p> <p>Contech® acquires Plastream Pipe Technologies Pty Ltd - the exclusive, worldwide licensee of Plastream® technology for the production of proprietary steel reinforced polyethylene (SRPE) pipe, which is now manufactured and marketed by Contech in the U.S. and Canada under the DUROMAXX® brand.</p> 	<p>2012</p> <p>Contech® announces its new name, CONTECH ENGINEERED SOLUTIONS LLC.</p> 	<p>2013</p> <p>Contech® acquires FILTERRA BIORETENTION SYSTEMS from Americast, Inc.</p> 	<p>2016</p> <p>Contech® acquires IMBRIUM SYSTEMS GROUP from Manteco Ltd.</p> 	<p>2018</p> <p>Contech® Engineered Solutions is acquired by QUIKRETE® HOLDINGS, INC. and joins The QUIKRETE Companies.</p> 	<p>2019</p> <p>Contech® Engineered Solutions, A QUIKRETE Company, acquires BIO CLEAN® to their stormwater portfolio and PRESTRESSED BRIDGE GIRDERS to their structures portfolio as a part of the QUIKRETE acquisition of FORTERRA INC.</p> 	<p>2022</p> <p>Contech® Engineered Solutions, A QUIKRETE Company, acquires BIG R MANUFACTURING LLC from All, International Inc.</p> 
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Building on over a century of innovation

CONTECH HAS BEEN THERE FOR AMERICA'S INFRASTRUCTURE NEEDS

DUROMAXX[®] STEEL REINFORCED POLYETHYLENE (SRPE)

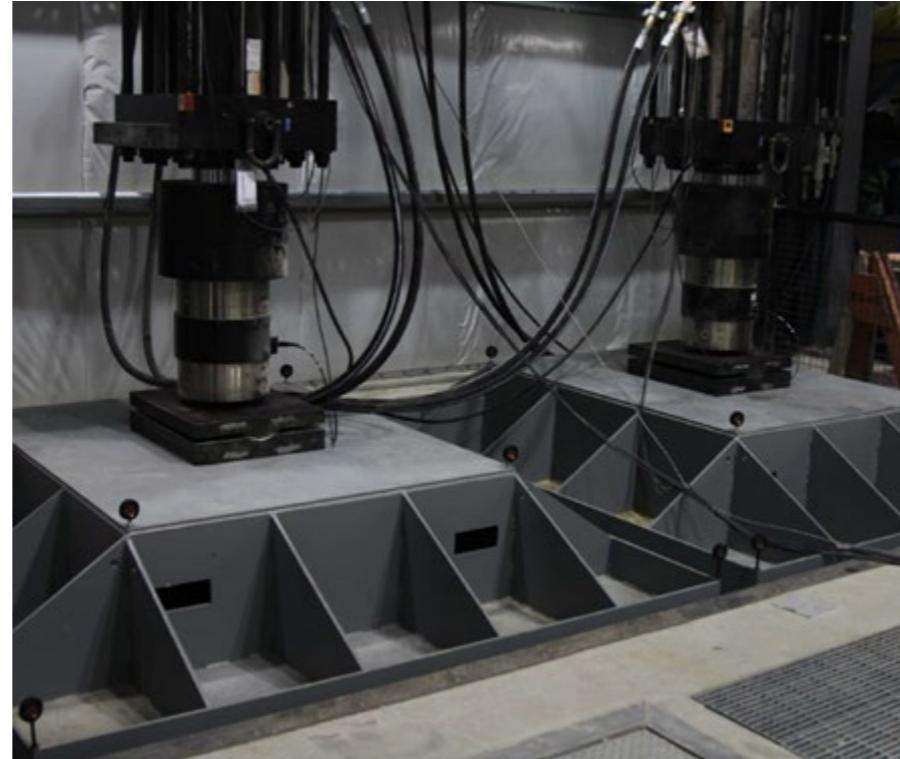
STRENGTH OF STEEL



DURABILITY OF HDB POLYETHYLENE



30" – 120" DIAMETERS
ASTM F2562, AASHTO M335, & MP-40



HIGH PERFORMANCE STEEL AND RESIN

High Strength Steel Ribs

- Load Capacity Comes From Steel Ribs
- 80 ksi galvanized high-yield steel for predictable long-term strength.
- Proven structural design follows AASHTO Section 12 LRFD.
- HOC from 1' to 50' (depending on diameter)

High Performance HDPE Resin

- HDB pressure-rated resins for predictable long-term performance
- 345464C Resin Classification per ASTM D3350
- Excellent Chemical & Abrasion Resistance
- Behaves structurally as a steel pipe – No creep

DUROMAXX® STEEL REINFORCED POLYETHYLENE (SRPE) PIPE

30" - 120"

Bell & Spigot (30" - 120")

Welded Coupler (36" - 120")

Applications

- Culverts
- Storm Sewer
- Sanitary Sewer
- Pipeline Rehabilitation
- Containment Tanks
- AFFF, Glycol, CSO, SSO, Detention, Rainwater Reuse



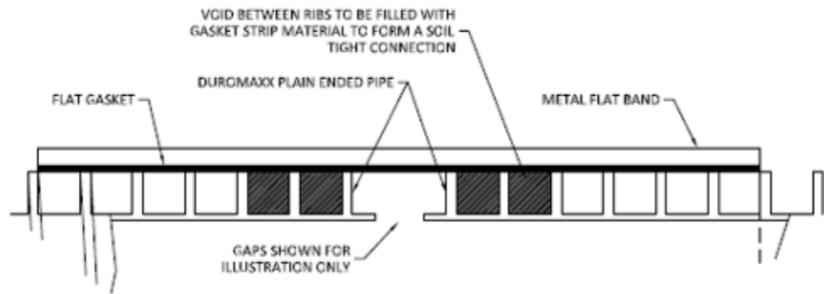
Structurally Speaking, DuroMaxx® is a Steel Pipe

MANUFACTURING THE HIGHEST VALUE

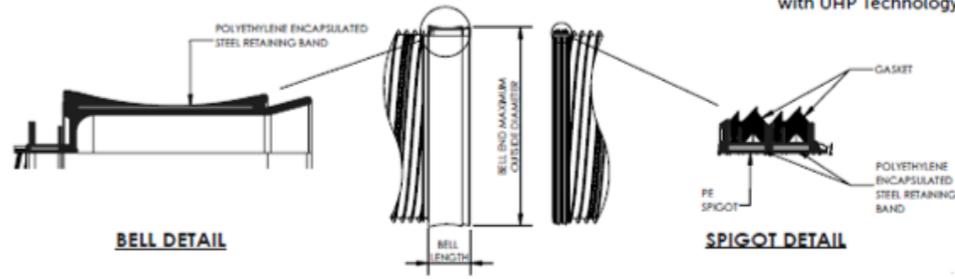


- Fabrication Friendly
- Elbows, Tees, Risers, Laterals, Bulkheads, etc.
- All Welds on Fittings Spark Tested
- Single Tanks Low Pressure Air Tested (per IAPMO)

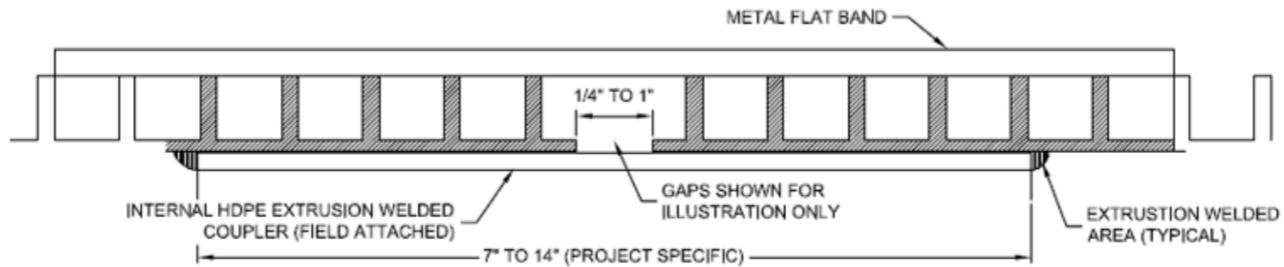
Soil Tight (ST) Joint Detail



QuikJoint® UHP Joint Details



Welded Coupler (WC) Joint Detail



DUROMAXX®SRPE
VARIETY OF JOINT OPTIONS
AVAILABLE

QUIKJOINT® WITH UHP TECHNOLOGY

- Testable Bell and Spigot Joint
- All DuroMaxx® Diameters
- Bell and Spigot Steel Reinforced
- Redundant Gaskets
- Field Tested in Minutes



The advertisement features a technical drawing of a pipe joint assembly on a textured, light-brown background. At the top, the 'QUIKJOINT' logo is written in large, bold, yellow letters with a black outline, followed by 'with UHP Technology' in smaller black text. Below the logo is a detailed cross-section of a pipe joint, showing a bell and spigot connection with a pressure gauge attached to the side. The gauge has a white face with black markings and a needle. To the right of the pipe, there is a block of text: 'DuroMaxx® offers the same quality you've come to expect but now with an enhanced new joint capable of in-ground psi testing to confirm correct installation and performance.' At the bottom of the advertisement, there is a white banner with blue and black text. The banner contains the following information: 'Introducing our new QuikJoint® with UHP Technology', 'The Next Evolution in DuroMaxx® SRPE', a bulleted list of features, the 'DuroMaxx' logo with 'STEEL REINFORCED PE TECHNOLOGY' underneath, and contact information for more details.

QUIKJOINT®
with UHP Technology

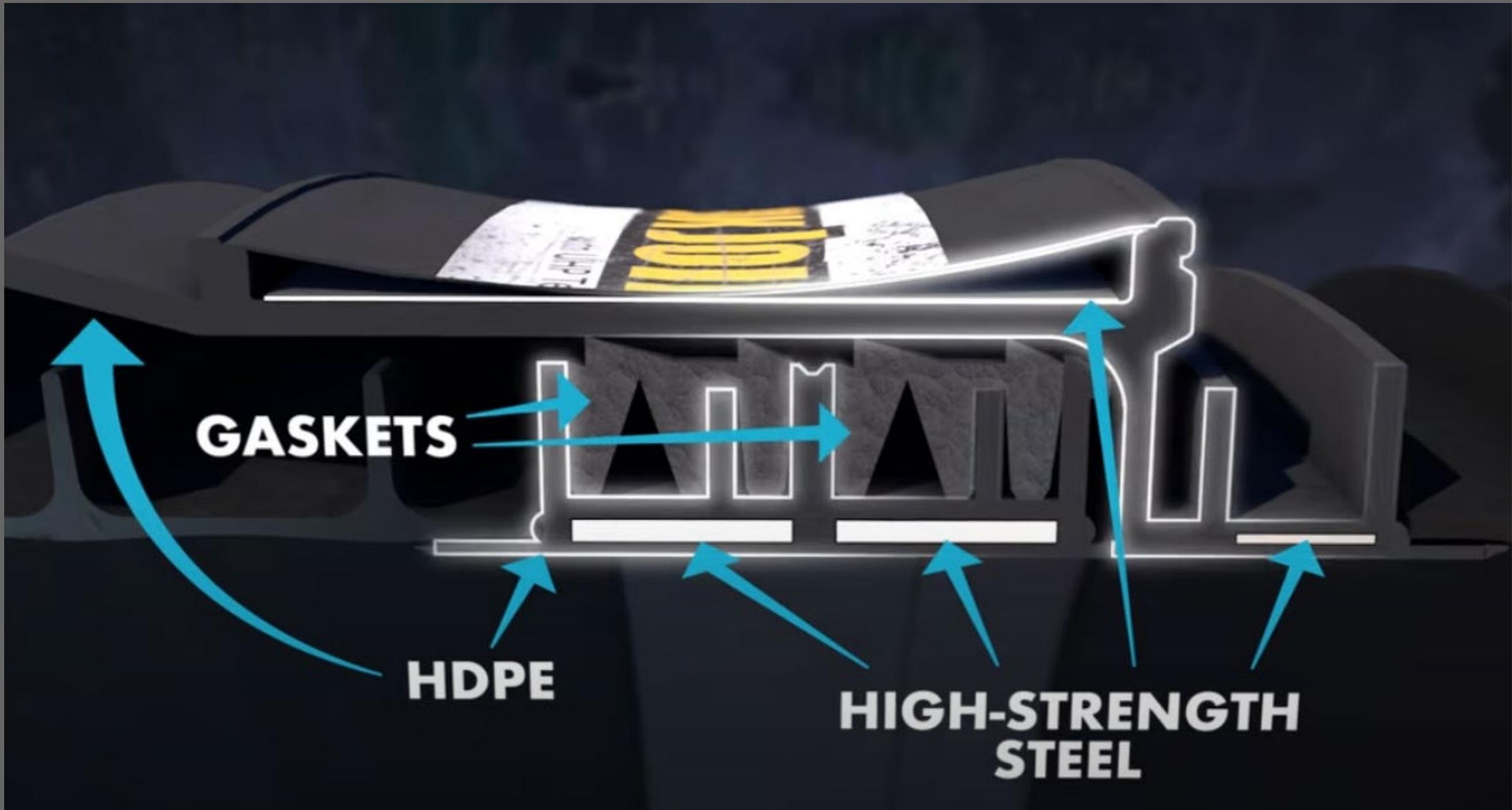
DuroMaxx® offers the same quality you've come to expect but now with an enhanced new joint capable of in-ground psi testing to confirm correct installation and performance.

Introducing our new QuikJoint® with UHP Technology
The Next Evolution in DuroMaxx® SRPE

- UHP = Ultra High Performance 10.8 psi joint
- Double gasket, extra-long bell, instant joint testing
- Triple thick 80-ksi steel reinforced spigot
- Manufactured in accordance with ASTM F2562 and AASHTO M335 and MP-40

DuroMaxx®
STEEL REINFORCED PE TECHNOLOGY

To learn more, contact your local Contech representative, call 1-800-338-1122 or visit www.ContechES.com.

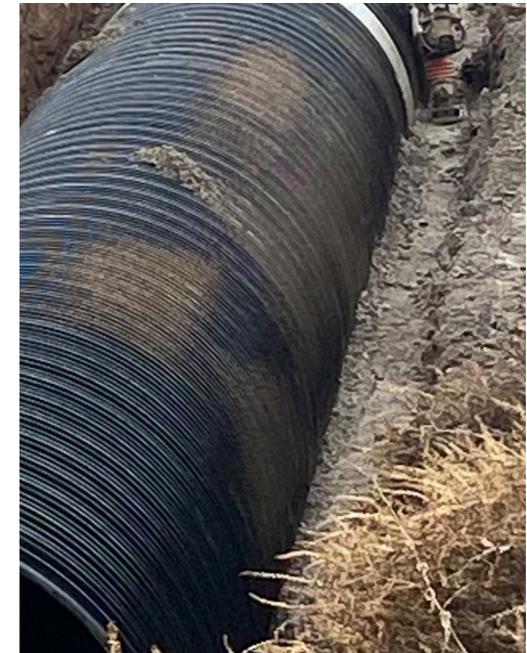
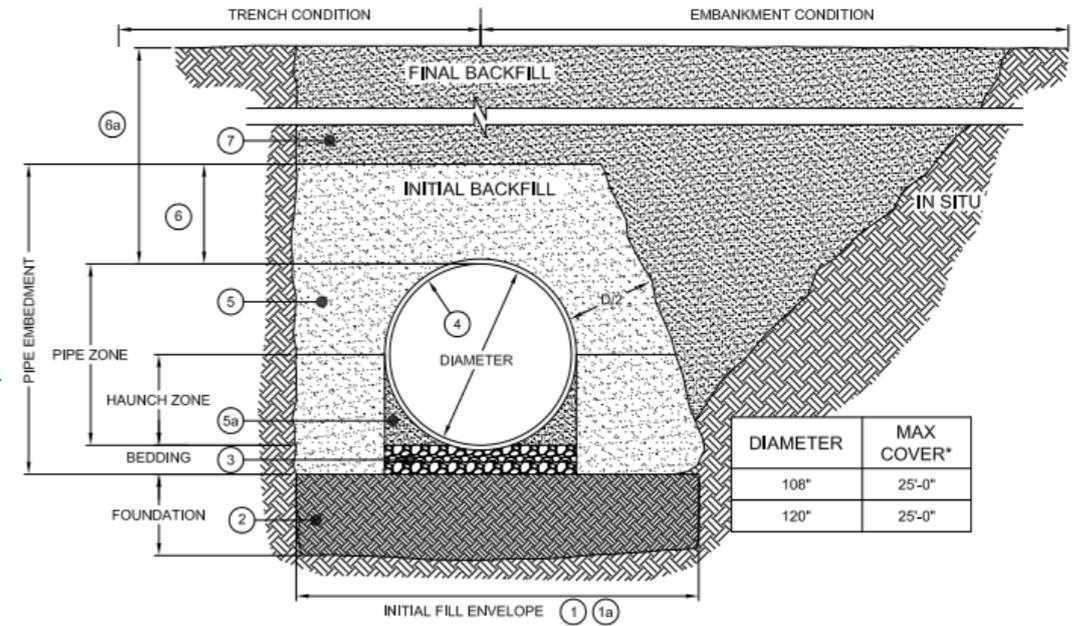


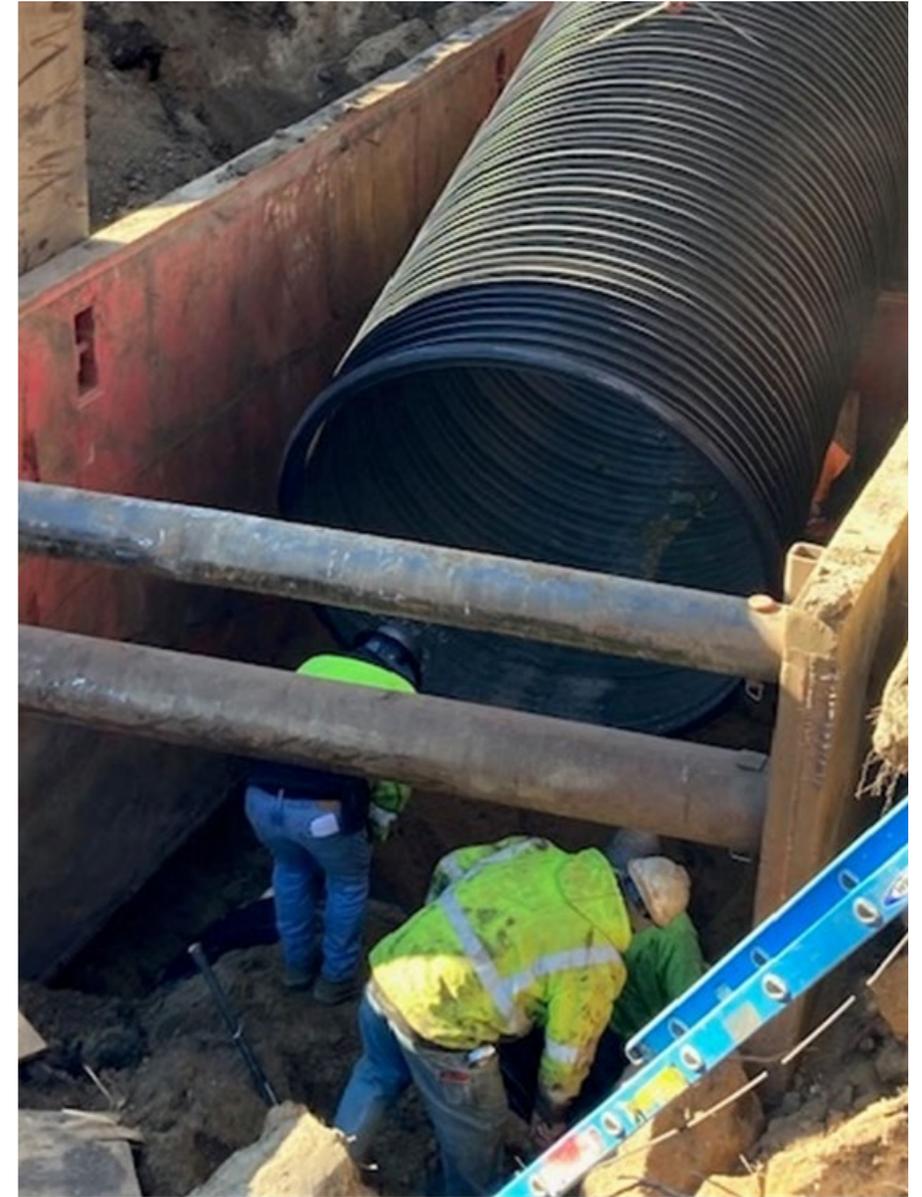
Pipe Dimensions & Handling Weights

Nom. Pipe Dia. (in)	Pipe OD (in)	Pipe ID (in)	Bell OD (in)	Min. Cover (ft)	Max. Cover (ft)**	Approx. Weight (lbs/ft)
30	30.9	29.5	33.9	1.0	50	18.8
36	37.1	35.4	39.8	1.0	50	23.6
42	43.2	41.3	45.7	1.0	50	27.0
48	49.5	47.2	52.3	1.0	30	30.8
54	55.5	53.2	58.2	1.0	30	36.1
60	61.4	59.1	64.1	1.0	30	42.9
66	67.8	65.0	70.9	1.5	30	56.9
72	73.7	70.9	76.8	1.5	30	65.6
78	80.0	76.8	82.7	2.0	30	71.0
84	85.9	82.7	88.6	2.0	30	76.3
96	97.8	94.5	100.4	2.0	30	87.0
108	111.3	108	112.3	2.5	25	99.7
120	121.9	118.1	124.1	3.0	25	109.0

* Available with welded coupler (WC) joints or plain ended with or without soil tight (ST) joints.

** The maximum cover limits shown in the table above are conservative and greater burial depths are possible. Contact your local Sales Engineer for project specific information.





Kittitas Reclamation District – South Branch Canal Piping

ELLENSBURG, WASHINGTON



Project Team

- Owner: Kittitas Reclamation District
- Engineer: Jacobs
- Contractor: Belsas & Smith / NADegerstrom / Corridor Contractors



Challenge

- This project served to conserve water lost estimated at 18vcfs, which is 6,7000 acre-feet annually through a ditch enclosure.



Contech's Role

- The engineer selected DuroMaxx SRPE with welded coupler joints to enclosed the South Branch Canal. 4,800 lf of 84" dia. and 8,100 lf of 78" were used for the first three phases of the project.



QUIKJOIN® HOMING AND AIR TESTING

2400 LF of 78” Dia QJ

ASTMC1103 Air Pressure Test

45 joints tested

“There is not a product like this on the market” – Ben Wyrick (Field Operations Manager for Corridor Contractors)



Big Springs Irrigation Ditch Conservation Project

TOSTON, MONTANA



Project Team

- Owner: Big Springs Ditch Water Users Assoc.
- Engineer: Morrison-Maierle, Inc.
- Contractor: George Rabel Excavation, Inc.



Challenge

- This project served to conserve water lost estimated at 12.6 cfs, which is 4,500 acre-feet annually through a ditch enclosure.



Contech's Role

- The association selected a DuroMaxx® steel reinforced polyethylene solution to provide a service life of well over 75 years, be cost-effective and easy to install as well as provide the necessary hydraulics and retention to slowly release throughout the 3,050 linear foot canal.



Malta Irrigation District Exeter Siphon Replacement

MALTA, MT



Project Team

- Owner: Malta Irrigation District
- Engineer: Performance Engineering



Challenge

- The Exeter Siphon was a 64-inch diameter, 400-foot long concrete structure that became compromised over time due to aging and repeated freeze-thaw cycles. This deterioration led to an estimated leakage of 5 cfs during the irrigation season, with an additional 2–4 cfs typically spilled to maintain adequate flow.



Contech's Role

- The Malta Irrigation District to a pipe material with high structural capabilities and water tight joints that could withstand years of freeze thaw and still maintain it's integrity. The engineer employed Duromaxx to meet these needs.
- Another key point was the cold weather install that was pivotal in getting the Irrigators back on track for the coming warmer weather





WYDOT Ralston North Reline

POWELL, WYOMING



Project Team

- Owner/Engineer: Wyoming Department of Transportation (WYDOT)
- Contractor: Wilson Brothers Construction



Challenge

- In Powell, Wyoming's Ralston North Badger Basin, an aging 84-inch diameter triple-span culvert had exceeded its design life, prompting the Wyoming Department of Transportation (WYDOT) to consider repair options that would minimize road closures and delays.



Contech's Role

- While a 72-inch HDPE liner was initially proposed, WYDOT ultimately selected a DuroMaxx®SRPE liner solution offered by Contech for its efficiency and cost-effectiveness—marking the first time this solution was used in a WYDOT reline project.