





CONTECH®
ENGINEERED SOLUTIONS
A QUIKRETE® COMPANY

DuroMaxx® SRPE

LEED with Contech®

Sanitary & Storm Sewer | Reline | Irrigation | Storage

DuroMaxx®
STEEL REINFORCED PE TECHNOLOGY

CONTECH®
PIPE SOLUTIONS

The DuroMaxx® SRPE Advantage

Manufactured in accordance with ASTM F2562, AASHTO M 335, and AASHTO MP 40.

The Strength of Steel. The Durability of Plastic.

It's the ideal combination of materials that makes DuroMaxx an exceptional pipe. 80 ksi steel reinforcing ribs provide the strength, and pressure rated Polyethylene Resin (PE) provides the durability. This combination of materials results in an extraordinarily strong and durable pipe. DuroMaxx is designed with a smooth waterway wall for outstanding hydraulic capacity. These materials provide the properties you can count on for long service and trouble-free performance in the most demanding environments. **Owners, Engineers, and Agencies choose DuroMaxx® SRPE.**

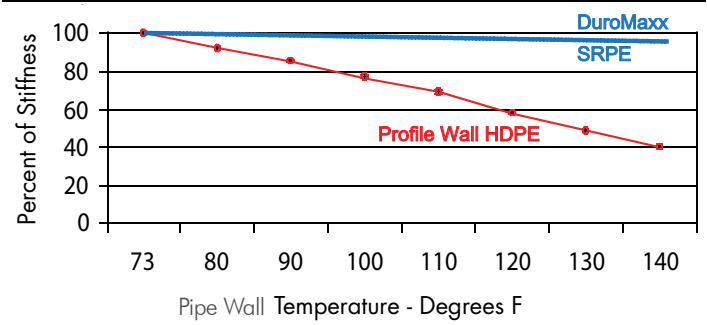
Lifelong Performance

DuroMaxx steel reinforced ribbed profile wall construction will not creep or buckle. The built-in capacity of the high strength steel eliminates concerns that have long plagued profile wall HDPE pipe. Today, it is possible to design with confidence to meet the long-term structural demands of the most difficult **sanitary & storm sewer, reline, irrigation, and stormwater/CSO/SSO detention** projects.

Temperature Effects on Strength

All flexible pipes must be designed to have adequate pipe stiffness to resist handling, installation and construction loads and to minimize deflection, ensuring a successful installation. Published pipe stiffness levels are measured at 73°F in a laboratory. The actual or apparent field pipe stiffness due to the effects of sunlight and a modest 80° temperature can produce results that are very different in the field – where it counts. A pipe wall temperature in excess of 110°results in a loss of pipe stiffness greater than 30% for a non-reinforced profile wall polyethylene pipe. Steel reinforced DuroMaxx loses less than 1% of its stiffness under the same conditions because the steel provides the pipe stiffness, not the PE plastic. As a result, DuroMaxx can be twice as stiff as non-steel reinforced HDPE pipe.

Effective Pipe Stiffness vs. Temperature*



* The information in this graph is an average stiffness loss observed over several diameters of one AASHTO M-294 HDPE profile wall product.

High Strength Steel & High Performance Pressure Rated Resins

Predictable service life demands predictable material properties. DuroMaxx uses only high quality pressure rated PE resin that provides predictable engineering properties including crack resistance, tensile strength and modulus of elasticity. Hydrostatic Design Basis (HDB) testing verifies and documents important 50 and 100 year design properties that aid the professional engineer when designing piping systems.

Unlike unreinforced plastic pipes which rely fully on time/strain sensitive materials for their structural performance, DuroMaxx's steel reinforcement provides 100% of the load carrying capacity. DuroMaxx resin contains 3% carbon black which long-standing research has shown will inhibit the affects of UV degradation (strength loss and brittleness) in excess of 50 years of direct exposure to sunlight. Therefore, the strength of DuroMaxx does not diminish over time, nor is it significantly impacted by elevated summertime temperatures.

Multiple Joint Options

DuroMaxx's steel reinforced bell and spigot joint achieves a level of watertight joint performance that sets it apart from conventional pipe products. The DuroMaxx steel reinforced QuikJoint® with UHP (ultra high performance) Technology is designed to meet, exceed, and maintain the highest standards of performance when tested in accordance with ASTM D3212 while allowing for in-ground test performance to guarantee a tight connection in diameters ranging from 30 to 120 inches. Additional options include: soil tight (ST) and welded coupler (WC) joints.



Watch the QuikJoint Animation video at www.ContechES.com/duromaxx

Hydraulic Performance

High flow rates are achieved with a smooth waterway wall for optimal savings. Target flow rates can be assured with DuroMaxx by contacting your local Contech sales engineer for the appropriate information. Manning's "n" values will range between 0.011 to 0.013, depending on velocity and flow rate.

Savings

DuroMaxx is lightweight, easily handled and quickly installed, often eliminating the need to use heavy construction equipment. The outside diameter (OD) of DuroMaxx is smaller than other conventional pipe materials, resulting in less trench excavation. As the two main cost drivers to install water conveyance products are manpower and machinery, DuroMaxx saves in both, resulting in less overall spending. The longer lengths and easy joint assembly are just some of advantages. DuroMaxx should be installed in accordance with nationally accepted ASTM D2321 installation practices.

Fittings & Fabricated Manholes

DuroMaxx is available with a full range of fabricated fittings such as elbows, tees, wyes, slope junctions and reducers. Both standard and custom fittings can be readily fabricated, which can result in fewer concrete structures and lower project costs. Manhole structures fabricated with DuroMaxx and HDPE pipe can be an excellent alternative to precast or cast-in-place concrete manholes and structures by providing greater durability and better hydraulic flow through the structure. This solution is both efficient and cost effective.

Sizes

Available in diameters from 30 to 120 inches and manufactured in standard lengths of 14 or 24 feet (standard length of 20 feet for 108 and 120 inch diameters) with longer lengths available, DuroMaxx has fewer joints to assemble on site, resulting in faster installation rates for the contractor. If your project requires custom lengths, contact your Contech representative for details and availability.

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	31.4	30.0	34.4	1.0	50	19.1
36	37.7	36.0	40.4	1.0	50	24.0
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	62.3	60.0	65.0	1.0	30	43.6
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	81.2	78.0	83.9	2.0	30	72.1
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	108.0	114.0	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.

Environmental Benefits

Contech is an environmentally conscious company committed to shaping the future of green building and design. Contech offers a wide range of site solutions that respond to green building and construction needs and can contribute towards LEED® and NAHB green credits. DuroMaxx has the potential to contribute to a variety of LEED credits in the categories for sustainable sites, water efficiency, materials and resources, innovation in design and regional priority. DuroMaxx consumes as much as 35% less of the natural resources required to manufacture other piping materials. The steel reinforcing ribs in the profile wall that provide the structural integrity for the pipe are made out of steel with recycled content levels ranging from 55-80%.

About LEED

A third party certification program, U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) Green Building Rating System™ is based on points and evaluates the overall performance of a green building project by assessing each of the materials and systems used in aggregate.



Storm & Sanitary Sewers

Large diameter sewer projects can be tough to deal with for many agencies. These long interceptors or trunk lines can run for miles, from manhole to manhole, eating away at an already constrained budget. Much of the costs can be contributed to installation realities for large quantities of very large diameters. These costs can include:

- Freight and number of trucks needed.
- Number of picks and weight of those picks.
- Number of joints and procedure to meet watertight standard.
- Other material costs.

DuroMaxx provides real answers that help make the agency's and engineer's job easier. Outstanding performance and value are clearly evident when comparing DuroMaxx to a wide variety of other products such as RCP, HDPE, Polypropylene, PVC and fiberglass pipe.





Benefits

- Large diameters up to 120 inches.
- Predictable, high strength for deep covers, shape and deflection control.
- Field verifiable joint tightness that meets initial testing requirements and long-term infiltration/exfiltration needs.
- Resistant to corrosive effluent.
- Smooth inner walls allow for minimum slope designs and longer runs.
- Lightweight for installation efficiency.

Shelley, Idaho
14 miles installed up to 48" diameter

DuroMaxx®
Sanitary System





Barker Ranch,
Washington
3 miles
54″ & 60″ diameter

DuroMaxx®
Irrigation System

Irrigation Applications

Agriculture and irrigation agencies are in need of more dependable and cost effective solutions to conserve their most valuable resource, water. Many are enclosing ditches and canals with pipe conveyance systems in remote areas of the country. These projects can be challenging to any engineer or project manager, especially when hydraulic parameters require larger diameter pipe sizes. DuroMaxx has proven solutions to these problems.

Benefits

- HDB pressure rated PE resins provide superior and predictable long-term service life.
- A variety of joint configurations and joint tightness levels are available to meet your specific project needs.
- Installation cost advantages important for remote locations.
- Versatile fabrication supports unique fittings and components.
- Excels in short and long-term cost analysis for irrigation applications.



100-Year Gravity Flow Capabilities
50-Year Pressurized Service Period

Diameters (in)	9 Months	Continuous (50 years)
30-42	9.5 psi	6.75 psi
48-60	12.0 psi	8.5 psi
66-120	15.0 psi*	15.0 psi

* Stated pressure capabilities based on assumed burial depth. Higher pressure may be possible. Please consult your Contech sales representative.

Reline Applications

DuroMaxx is ideally suited for the structural reline of existing failing storm drains, culverts and large diameter sanitary sewer systems. It's unique combination of steel reinforcement and pressure rated PE resin make it an excellent choice for trenchless pipe rehabilitation.

Benefits

- The efficient wall profile and smooth interior provide excellent open area and hydraulics for reline applications.
- 80 ksi high strength steel provides maximum load carrying capabilities with allowable cover limits ranging from 30 to 50 feet.
- High quality pressure rated PE resin provides unmatched durability with excellent abrasion and chemical resistance.
- Diameters range from 30 to 120 inches and varying pipe lengths up to 40' long offer outstanding selection for design and installation.
- DuroMaxx is available with several joining options including reinforced high performance bell & spigot or welded coupler joints for extreme joint tightness.
- Custom features such as threaded grout ports and welded bottom skids help ensure a successful installation and grouting process.







Mobile, Alabama
1,500 lf
120" diameter

DuroMaxx®
Culvert Reline



Monticello, Indiana
395,000 gal. storage
96", 84" & 72"
diameters

DuroMaxx®
CSO System

Storage Applications

Sanitary & Combined Sewer Overflow/Stormwater Detention & Rainwater Harvesting/Glycol, AFFF & Other Hazardous Containment

Storage tank systems are used to regulate stormwater and wastewater flow through main pipelines by acting as a buffer during peak loads. DuroMaxx systems are designed to contain the water and slowly release it into the main system over a period of time. These systems are often custom made to watertight specifications in order to suit the project requirements.

DuroMaxx tank systems can incorporate a wide range of fittings such as bends, risers, bulkhead ends, and inlet/outlet pipes. The systems can be custom manufactured to individual lengths in sizes and configurations that can be economically transported and assembled on site.



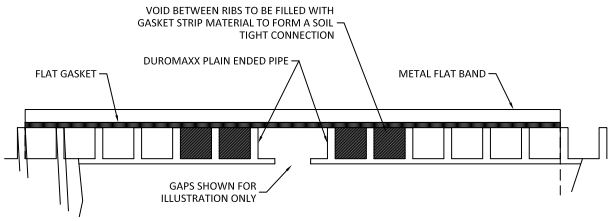


Benefits

- DuroMaxx® SRPE provides excellent chemical resistance suitable for sanitary sewage overflows, glycol contaminated runoff at airports, and AFFF fire suppression discharge applications.
- Large diameters up to 120 inches providing maximum volume efficiency; utilizing larger sizes can reduce the storage cost per gallon.
- The high strength 80 ksi steel reinforced PE technology allows for storage locations under areas subjected to heavy vehicular and aircraft live loads.
- DuroMaxx offers a fast and efficient installation that can be cost effective when compared to large concrete vaults.
- Adaptable layout configurations allow the system design to fit tight project footprints.
- Custom fittings such as elbows, tees, bulkheads, stubs, and access risers for inspection and maintenance are available.
- Suitable for underground storage systems ranging from a few thousand to multiple millions of gallons.

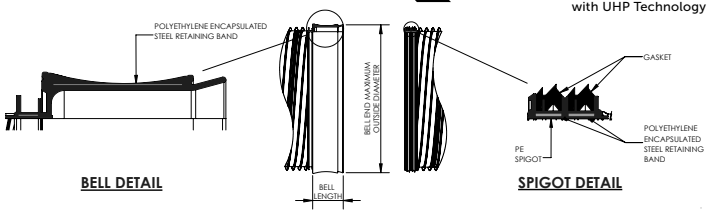
The Design Behind the Performance

Soil Tight (ST) Joint Detail

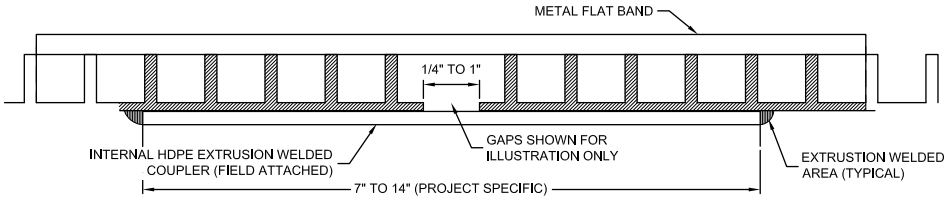


QuikJoint® UHP Joint Details

QUIK JOINT® with UHP Technology



Welded Coupler (WC) Joint Detail



OWNERS, ENGINEERS, AND AGENCIES CHOOSE DUROMAXX® SRPE.

CONTECH® ENGINEERED SOLUTIONS
A QUIKRETE® COMPANY

MANUFACTURING AMERICA'S INFRASTRUCTURE™

Contech® Engineered Solutions manufactures civil infrastructure products that add lasting value to every project.

We work alongside owners, engineers, and customers to provide guidance, design support, and installation assistance, helping you build with confidence.

We look forward to working with you on your next project.

PIPE SOLUTIONS | STORMWATER SOLUTIONS | STRUCTURE SOLUTIONS

For more information, we have representatives for all 50 states.
Please call 800-338-1122 or visit www.conteches.com.

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