



HORIZON LATERAL PIPELINE PIPE OPTIONS AT A GLANCE

Steel | Bar-wrapped | TPG FRP





STEEL

Steel pipe offered with various coatings and linings.



Steel welding



BAR WRAPPED

BEDDING AND BACKFILL

Rigid vs. Flexible Pipe Installation: The total cost of a project includes more than the pipe. Importing bedding and backfill increases expense. Bar-wrapped pipe is semi-rigid and may require less imported backfill than flexible pipe options.



JOINT RESTRAINT

Concrete pressure pipe offers ease of installation. A Snap Ring® is a one-bolt tightening system. Additionally, a harness clamp offers high pressure restraint with two or four bolts based on pipe type.



Snap Ring[®] – Harness Clamp – Standard Joint

TPG FRP

FIBERGLASS PIPE OFFERS NUMEROUS ADVANTAGES:

- Inherently corrosion resistant; no need for cathodic protection and no maintenance of coatings and linings
- Lightweight reduces transportation costs, customizable joint lengths up to 40', ease of installation
- Proven gasketed joint with 50 years of performance history in pressure classes up to 450 psi
- Multiple restraint options



Keylock





Lamination





PRESSURE PROJECTS AT A GLANCE

COLUMBIA IRRIGATION DISTRICT

Location: Northeast Oregon Details: 39,000 LF of 72" and 75" FRP with steel fittings, 180 psi

Originally specified for steel pipe, Thompson Pipe Group value engineered this pressure project utilizing a unique TPG FRP and steel combination design. With the elimination of cathodic protection and an accelerated installation schedule, the owner saved more than \$3 million.





GALLERIA

Location: Henderson, Nevada Details: 3,500 LF of 30" FRP, 300 psi

Corrosive soils led to the specification and installation of TPG FRP. FRP has mulitple restraint options, but engineers selected joint lamination, a process similar to welding steel pipes.

VISTA RIDGE

Location: San Antonio, Texas Details: 150 miles of 54" and 60" bar-wrapped (C303) and steel pipe, respectively

Thompson Pipe Group manufactured and delivered bar-wrapped and steel pipe for the largest public-private partnership in North America. The San Antonio Water System (SAWS) used bar-wrapped pipe for pressure planes of 200 psi and lower. Steel was used for planes of 225 psi and greater.







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