



Prestressed Concrete Cylinder Pipe – Embedded (AWWA C301)



**engineered for your specific requirements • safely handles specified pressures & loads
dependable O-ring gasket joints • economical & reliable**

E-301

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Concrete structures are prestressed when predetermined compressive stresses are applied to them to counter future tensile stresses as a result of expected loads.

In Prestressed Concrete Embedded Cylinder Pipe (E-301), prestressing is achieved by helically wrapping, under measured tension and at uniform spacing, a high tensile-strength wire around the concrete core. This wire wrap places the concrete core in compression, developing the pipe's ability to withstand combined loading of the specified hydrostatic pressure(s) and external load(s) with a safety factor comparable to other waterworks piping materials.

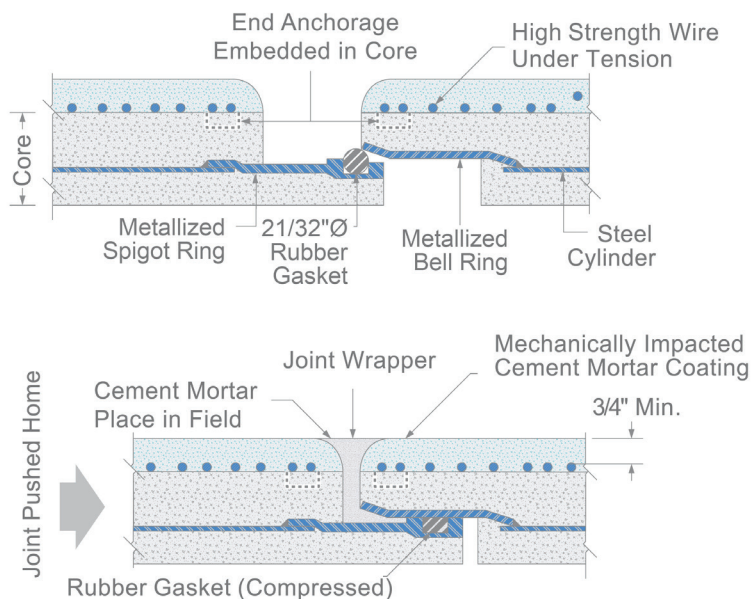
Concrete's high compressive strength and steel's high tensile strength are combined to form an elastic composite structure.

AWWA C301 Pipe Data Sheet

(For embedded cylinder pipe made in U.S.)

inside pipe diameter*	max. outside diameter at bell	weight per lineal foot	Standard laying lengths*
54"	64"	1010#	20'
60"	71"	1240#	20'
66"	78"	1500#	16'/20'
72"	85"	1780#	20'/24'
78"	92"	2060#	20'
84"	99"	2390#	20'
90"	105"	2540#	20'
96"	111"	2700#	16'/20'
102"	118"	2990#	16'/20'
108"	124"	3150#	16'/20'
114"	131"	3530#	16'/20'
120"	138"	3930#	16'/20'
126"	144"	4450#	12'
132"	151"	4550#	12'/16'
138"	158"	4990#	12'
144"	164"	5350#	12'/16'

Note: *Availability of diameters and laying lengths varies by location. Contact your sales representative for more information.



Joint Closure

The O-ring gasket manufactured by Thompson Pipe Group – Pressure provides a highly dependable positive joint seal. Made of high-quality synthetic rubber, extruded to exacting tolerances and measured volumetrically, the compressed gasket fills and is confined within an accurately shaped spigot groove.