

Storm Sewers Piping Specification – Reinforced Concrete

PRESSURE-TEMPERATURE RATINGS
(0.000" Corrosion Allowance)

PIPE MATERIAL
Reinforced Concrete

Temp.C 23 to 60
Temp.F 73 to 140

Max. Hydro.
Test Press.

SERVICE
Storm Sewers (1)

Press. psig Gravity *psi minimum hydro (see joint type)

FLOW
COEFFICIENT

C=140 (Hazen-Williams)

REFERENCE STANDARDS

ASTM C76/AASHTO M170
ASTM C443/AASHTO M198

INSTALLATION

Installation of Corrugated Steel pipe per ASTM C76-05b, and per Manufacturer's Recommendation. Testing per ASTM C1103.

PIPE

12 to 144 Reinforced concrete pipe, per ASTM C76-05b. Joints shall adhere to one of the following designs –
 (1) Tongue and Groove for packing with mastic joint compound, preformed mastic or butyl gaskets or mortar.
 (2) concrete joint with confined o-ring gasket, rubber or neoprene (US Bureau of Reclamation joint type R-4).
 (3) Steel-end-rings with confined o-ring gasket, rubber or neoprene (US Bureau of Reclamation joint type R-2).
 (4) double o-ring gasket with steel or fiberglass bell band for jacking (US Bureau of Reclamation joint type R-1).

Pipe Class selection from table below:

Class	0.01" Crack	Ultimate
I	800 lbs.	1,200 lbs.
II	1,000 lbs.	1,500 lbs.
III	1,350 lbs.	2,000 lbs.
IV	2,000 lbs.	3,000 lbs.
V	3,000 lbs.	3,750 lbs.

NOTES:

- (1) A variety of linings and coatings is available should project conditions dictate their use
- (2) Consult manufacture for hydrostatic testing parameters