



**CONTECH**  
ENGINEERED SOLUTIONS

Smooth Cor™ Pipe

Storm Sewer | Reline | Culverts & More

**CONTECH**  
**PIPE SOLUTIONS**

# Smooth Cor™ Pipe: Excellent Hydraulics, Long Lengths and Easy Installation

## Smooth Interior with Corrugated Outer Shell

Manufactured by Contech Engineered Solutions, Smooth Cor pipe has a smooth interior steel liner that provides a Manning's "n" = 0.012. The pipe is also referred to as double wall pipe. Its rugged corrugated steel shell supplies the structural strength to provide one of the strongest flexible pipes in the industry.

## Superior Hydraulics

Smooth Cor, with its smooth interior surface is hydraulically superior to conventional corrugated steel pipe. Smooth Cor has fewer joints and better interior surface rigid concrete pipe.

Smooth Cor combines all the positive attributes of corrugated steel pipe; high strength to weight ratio, high beam strength, long lengths, ease of installation, low thermal expansion, positive mechanical joints, high recycled content, and a long service life with a polymer-coated inner wall.

## Two Pipe Shapes

In addition to full-round pipe, Smooth Cor comes in a pipe-arch shape for limited headroom conditions. The low, wide pipe-arch design distributes the flow area horizontally, providing hydraulic capacity without lowering the grade.

## Excellent Reline Solution

Smooth Cor pipe is excellent for relining of existing older culverts. Smooth Cor has a small outside to inside diameter ratio, a low roughness coefficient, high pipe stiffness, long lengths, and two shapes to match existing culvert profiles. Smooth Cor can be manufactured with 2-inch internal grout ports for ease of back grouting during relining installation.





## Structural Design

Smooth Cor is manufactured with a corrugated shell with an 18-gage polymer-coated steel liner. The exterior shell thickness can be 16-gage, 14-gage, and 12-gage and manufactured in a  $2 \frac{2}{3} \times \frac{1}{2}$  or  $3 \times 1$  corrugation profile. Per AASHTO design, the combination of the corrugated shell and inner wall thickness allows for higher fill heights over the pipe.

### Diameters

Smooth Cor is available in diameters ranging from 18 inches to 84 inches in  $2 \frac{2}{3} \times \frac{1}{2}$  corrugation. The  $3 \times 1$  corrugation is available in diameters of 48 inches to 144 inches.

Pipe-arch sizes range from 21" x 15" through 83" x 57" for  $2 \frac{2}{3} \times \frac{1}{2}$  corrugations, and 53" x 41" through 142" x 91" for  $3 \times 1$  corrugations.

### Materials

Smooth Cor is available in a variety of protective coatings. The corrugated shell of Smooth Cor can be made of galvanized steel, aluminized type 2 (ALT2) steel, or polymer-coated steel. The inner liner is manufactured from polymer-coated steel. Galvanized steel meets AASHTO M218 and ASTM A929 specifications. Aluminized steel meets AASHTO M274 and ASTM A929 specifications. Polymer-coated steel meeting AASHTO M246 and ASTM A 742.

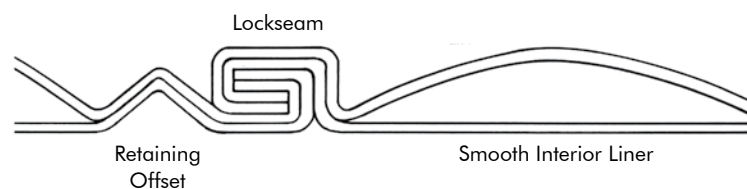
### Fittings

Smooth Cor can be fabricated into any type of structure including tees, elbows, laterals, catch basins, manifolds and reducers. Pre-fabricated fittings are more economical and have superior hydraulic characteristics when compared to concrete structures.

## Applications

Smooth Cor is used in a variety of applications, including:

- Storm Sewer
- Reline
- Irrigation & Canal Enclosures
- Outlet Controlled Culverts





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



STORMWATER SOLUTIONS



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