



In shape for your
toughest challenges.

Superior strength
for your
more challenging
installations.



Reinforced Concrete Arch Pipe

Reinforced concrete arch pipe is ideal for a variety of specialized conditions such as space constraints, limited fall and insufficient depth for circular pipe. Concrete arch pipe provides exceptional strength and a hydraulically efficient Manning's "n" of 0.012. Concrete arch pipe offers a superior alternative to metal arch and multiple lines of smaller circular pipe.

Hanson Pipe & Precast is a leader in concrete pipe and precast concrete products. Our national network of facilities means that we can deliver materials when and where you need them.

Sizes

Reinforced concrete arch pipe is normally available in round equivalent sizes of 15" diameter through 72" diameter, with sizes up to 144" diameter available in some locations. Contact your local Hanson representative for specific sizes in your market.

Applications

Reinforced concrete arch pipe can be used for the following:

- highway culverts
- railroad culverts
- short span highway bridges
- storm drains
- utility tunnels
- underground stormwater retention structures
- groundwater recharge systems
- to replace existing open channels or ditches, and enable land to be used more productively
- jacked or tunneled installations

Joints

Reinforced concrete arch pipe is produced with tongue and groove joints for sealing with mastic joint compound, preformed flexible bitumen or butyl rubber gaskets, mortar or external joint wraps.

Linings/Coatings

A variety of linings and coatings are available where project conditions dictate their use.

Applicable Specifications

The following specifications apply to reinforced concrete arch pipe:

- ASTM C506 / AASHTO M259 – reinforced concrete arch culvert, storm drain and sewer pipe
- ASTM C990 – preformed flexible joint sealants

