



STANDARDS & SPECIFICATIONS

To ensure Shaw Precast Solutions is able to deliver a high quality product to our customers, the manufacturing of our products is guided by internationally accepted standards and specifications. All Shaw Precast Solutions products meet or exceed the requirements. We have provided a listing of the appropriate standards and specifications as a reference.

CONCRETE PIPE, MANHOLES, AND CATCHBASINS

CANADIAN STANDARDS ASSOCIATION (CSA)

CSA A257 Standards for Concrete Pipe and Manhole Sections

257.0	Methods for Determining Physical Properties of Circular Concrete Pipe, Manhole Sections, Catchbasins, and Fittings
257.1	Non-reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings
257.2	Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings
257.3	Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections, and Fittings using Rubber Gaskets
257.4	Precast Reinforced Circular Concrete Manhole Sections, Catch Basins and Fittings

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

C 14	Standard Specification for Concrete Sewer, Storm Drain, and Culvert Pipe
C 76	Standard Specification for Reinforced Concrete Culvert, Storm Drain & Sewer Pipe
C 361	Standard Specification for Reinforced Concrete Low-Head Pressure Pipe
C 412	Standard Specification for Concrete Drain Tile
C 443	Standard Specification for Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets
C 444	Standard Specification for Perforated Concrete Pipe
C 478	Standard Specification for Precast Reinforced Concrete Manhole Sections
C 497	Standard Test Method for Concrete Pipe, Manhole Sections, or Tile
C 655	Standard Specification for Reinforced Concrete D-Load Culvert, Storm Drain and Sewer Pipe
C 822	Standard Terminology Relating to Concrete Pipe and Related Products
C 923	Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures and Pipes
C 985	Standard Specification for Non-reinforced Concrete Specified Strength Culvert, Storm Drain, and Sewer Pipe

Please note that where variances occur between CSA and ASTM standards, SHAW PIPE follows the CSA requirements, unless specifically requested in project specifications.

PRECAST CONCRETE BOX CULVERTS, SHAWSPANS, ARCH SECTIONS

CANADIAN STANDARDS ASSOCIATION (CSA)

CAN/CSA-S6 Canadian Highway Bridge Design Code

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

C 1433	Standard Specification for Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers
C 877	External Sealing Bands for Concrete Pipe, Manholes and Precast Box Sections

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)

LRFD Bridge Design Specifications

OTHER PRECAST CONCRETE PRODUCTS

CANADIAN STANDARDS ASSOCIATION

CSA A23	
A23.1	Concrete Materials and Methods of Concrete Construction
A23.2	Methods of Test and Standard Practices for Concrete
A23.3	Design of Concrete Structures
A23.4	Precast Concrete - Materials and Construction

AMERICAN SOCIETY FOR TESTING AND MATERIALS

C 858	Standard Specification for Underground Precast Concrete Utility Structures
C 913	Standard Specification for Precast Concrete Water and Wastewater Structures
C825	Standard Specification for Precast Concrete Barrier