



Designation: C1577 – 17

Standard Specification for Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains, and Sewers Designed According to AASHTO LRFD¹

This standard is issued under the fixed designation C1577; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval, if applicable. This standard was last revised in 2017.

1. Scope

1.1 This specification covers single-cell precast reinforced concrete box sections cast monolithically and intended to be used for the construction of culverts and for the conveyance of storm water, industrial wastes and sewage.

Note 1—This specification is primarily a manufacturing and purchasing specification. However, standard designs per the AASHTO LRFD Bridge Design Specifications are included and the criteria used to develop these designs are given in Appendix X.1. The successful performance of this product depends upon the proper selection of the box section, bedding, backfill, and care that the installation conforms to the construction specifications. The purchaser of the precast reinforced concrete box sections specified herein is cautioned that proper consultation of the bedding conditions and the fill requirements with the box section specifier, and provision for inspection at the construction site, are required.

1.2 The values stated in inch-pound units are to be regarded as standard. No other units of measurement are included in this standard.

2. Referenced Documents

2.1 ASTM Standards²

- A1004/A1004M Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete
- A615/A615M Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement
- A706/A706M Specification for Deformed and Plain Low-Alloy Steel Bars for Concrete Reinforcement
- C330/C330M Specification for Concrete Aggregates
- C150/C150M Specification for Portland Cement
- C260/C260M Specification for Air-Entraining Admixtures for Concrete

¹ This specification is under the jurisdiction of ASTM Committee C11 on Concrete Pipe and is the direct responsibility of Subcommittee C11.07 on Nonpressure Specifications and Precast Concrete Box Sections.

² Current edition approved Jan. 1, 2017, published January 2017. Originally approved in 2007. Last previous edition approved in 2010 as C1577 – 10, DOI: 10.1520/C1577-10A.

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at custserv@astm.org. For Annual Book of ASTM Standards volume information, refer to the standard's Document Summary page on the ASTM website.

- C909 Specification for Liquid Membrane-Forming Compounds for Curing Concrete
 - C994/C994M Specification for Chemical Admixtures for Concrete
 - C997 Test Methods for Concrete Pipe, Manhole Sections, or Tile
 - C998/C998M Specification for Blended Hydraulic Cements
 - C668 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolans for Use in Concrete
 - C922 Terminology Relating to Concrete Pipe and Related Products
 - C996/C996M Specification for Slag Cement for Use in Concrete and Mortar
 - C990 Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealers
 - C1017/C1017M Specification for Chemical Admixtures for Use in Producing Flowing Concrete
 - C1119/C1119M Specification for Fiber-Reinforced Concrete
 - C1603/C1603M Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete
 - C1619 Specification for Elastomeric Seals for Joining Concrete Structures
 - C1675 Practice for Installation of Precast Reinforced Concrete Monolithic Box Sections for Culverts, Storm Drains, and Sewers
 - C1677 Specification for Joints for Concrete Box, Using Rubber Gaskets
- #### 2.2 AASHTO Standards³
- AASHTO LRFD Bridge Design Specifications
 - AASHTO LRFD Bridge Construction Specifications
- #### 2.3 ASCE Standard⁴
- ASCE 26-97 Standard Practice for Direct Design of Barbed Precast Concrete Box Sections

⁴ Available from American Association of State Highway and Transportation Officials (AASHTO), 440 N. Capital St., NW, Suite 249, Washington, DC 20001, <http://www.transportation.org>.

⁵ Available from American Society of Civil Engineers (ASCE), 1801 Alexander Bell Dr., Reston, VA 20191, <http://www.asce.org>.

Astm C1577 17 Standard Specification For Precast

Lingsheng Yao



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Table of Contents Astm C1577 17 Standard Specification For Precast

1. Understanding the eBook Astm C1577 17 Standard Specification For Precast
 - The Rise of Digital Reading Astm C1577 17 Standard Specification For Precast
 - Advantages of eBooks Over Traditional Books
2. Identifying Astm C1577 17 Standard Specification For Precast
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Astm C1577 17 Standard Specification For Precast
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astm C1577 17 Standard Specification For Precast
 - Personalized Recommendations
 - Astm C1577 17 Standard Specification For Precast User Reviews and Ratings
 - Astm C1577 17 Standard Specification For Precast and Bestseller Lists
5. Accessing Astm C1577 17 Standard Specification For Precast Free and Paid eBooks
 - Astm C1577 17 Standard Specification For Precast Public Domain eBooks
 - Astm C1577 17 Standard Specification For Precast eBook Subscription Services
 - Astm C1577 17 Standard Specification For Precast Budget-Friendly Options

6. Navigating Astm C1577 17 Standard Specification For Precast eBook Formats
 - ePub, PDF, MOBI, and More
 - Astm C1577 17 Standard Specification For Precast Compatibility with Devices
 - Astm C1577 17 Standard Specification For Precast Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astm C1577 17 Standard Specification For Precast
 - Highlighting and Note-Taking Astm C1577 17 Standard Specification For Precast
 - Interactive Elements Astm C1577 17 Standard Specification For Precast
8. Staying Engaged with Astm C1577 17 Standard Specification For Precast
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astm C1577 17 Standard Specification For Precast
9. Balancing eBooks and Physical Books Astm C1577 17 Standard Specification For Precast
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astm C1577 17 Standard Specification For Precast
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Astm C1577 17 Standard Specification For Precast
 - Setting Reading Goals Astm C1577 17 Standard Specification For Precast
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Astm C1577 17 Standard Specification For Precast
 - Fact-Checking eBook Content of Astm C1577 17 Standard Specification For Precast
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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