



Designation: **C1577 – 16 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. A superscript symbol (n) indicates an editorial change since the last revision or approval.

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 X1](#). 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 correlation of the loading conditions and the field requirements with the box section specified, 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 Standards:²

[A1064/A1064M](#) 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

[C33/C33M](#) Specification for Concrete Aggregates

[C150/C150M](#) Specification for Portland Cement

[C260/C260M](#) Specification for Air-Entraining Admixtures for Concrete

[C309](#) Specification for Liquid Membrane-Forming Compounds for Curing Concrete

[C494/C494M](#) Specification for Chemical Admixtures for Concrete

[C497](#) Test Methods for Concrete Pipe, Manhole Sections, or Tile

[C595/C595M](#) Specification for Blended Hydraulic Cements

[C618](#) Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete

[C822](#) Terminology Relating to Concrete Pipe and Related Products

[C989/C989M](#) Specification for Slag Cement for Use in Concrete and Mortars

[C990](#) Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants

[C1017/C1017M](#) Specification for Chemical Admixtures for Use in Producing Flowing Concrete

[C1116/C1116M](#) Specification for Fiber-Reinforced Concrete

[C1602/C1602M](#) 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

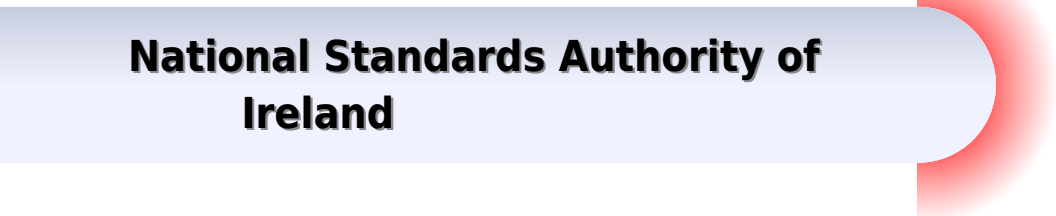
¹ This specification is under the jurisdiction of ASTM Committee C11 on Concrete Pipe and is the direct responsibility of Subcommittee C11.07 on Acceptance Specifications and Precast Concrete Box Sections.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM Standards technical information, refer to the standard's Document Summary page on the ASTM website.

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**National Standards Authority of
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Standard Specification for Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers Metric Withdrawn 2000 , **Standard Specification for Manufacture of Precast Reinforced Concrete Three-Sided Structures for Culverts and Storm Drains Metric** , Standard Specification for Segmental Precast Reinforced Concrete Box Sections for Culverts, Storm Drains, and Sewers Designed According to AASHTO LRFD ,
Standard Specification for Precast Concrete Water and Wastewater Structures , **Standard Specification for Precast Reinforced Concrete Manhole Sections** ASTM International, American Society for Testing and Materials, 2009
Standard Specification for Underground Precast Concrete Utility Structures , **Standard Specification for Precast Reinforced Concrete Manhole Sections** American Society for Testing and Materials, American Association of State Highway and Transportation Officials, 1980 *Standard Specification for Precast Reinforced Concrete Manhole Sections [metric]*. ASTM International, American Society for Testing and Materials, 2002 *Standard Specification for Circular Precast Reinforced Concrete Manhole Sections* , **Standard Specification for Circular Precast Reinforced Concrete Manhole Sections Metric Withdrawn 2020** , **ASTM Standards for Precast Concrete Pipe** American Society for Testing and Materials, American Concrete Pipe Association, 1987* **Specification for Precast Concrete Drainage and Pressure Pipes** Standards Association of New Zealand, 1968 **Standard Specification for Precast Concrete Manhole Sections and Slabs** South African Bureau of Standards, 1981 Declaration of Specification Entitled Precast Concrete Manholes as the Irish Standard Specification for Precast Concrete Manholes National Standards Authority of Ireland, 2004 *British Standard Specification for Precast Concrete Partition Slabs (solid)*. British Standards Institution, 1933 **Standard Specification for Reinforced Concrete Culvert, Storm Drain, and Sewer Pipe (metric)**. , 2019 This specification covers reinforced concrete pipe intended to be used for the conveyance of sewage industrial wastes and storm water and for the construction of culverts ASTM International website Standard Specification for Precast Concrete Paving Slabs (metric Units). , 1971 B.S. 5911:part 2:1982 , Construction Specifications Handbook Hans W. Meier, 1978

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