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**Standard Specification for**

**Corrugated Steel Pipe, Polymer-**

**Precoated, for Sewers and Drains**

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**AASHTO Designation: M 245-16**

**Release: Group 2 (June 2016)**

**ASTM Designation: A762/A762M-98**



**American Association of State Highway and Transportation Officials**  
**444 North Capitol Street N.W., Suite 249**  
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# Corrugated Steel Pipe, Polymer-Precoated, for Sewers and Drains

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## 1. SCOPE

- 1.1. This specification covers polymer-precoated corrugated steel pipe intended for use for storm water drainage, underdrains, the construction of culverts, and similar uses. Pipe covered by this specification is not normally used for the conveyance of sanitary or industrial wastes. The steel sheet used in fabrication of the pipe has a polymer protective coating over a metallic coating of zinc (galvanizing), 55 aluminum-zinc alloy, or zinc-5 percent aluminum-mischmetal alloy.
- 1.2. The polymer coating provides a degree of extra protection for the pipe against abrasion and corrosion as compared with metallic-coated pipe without polymer coating. Some severe environments may cause corrosion problems to accessory items such as rivets or coupling band hardware that does not have a polymer coating. Additional protection for polymer-precoated corrugated steel pipe can be provided by use of coatings applied after fabrication of the pipe as described in M 190.
- 1.3. This specification does not include requirements for bedding, backfill, or the relationship between earth cover load and sheet thickness of the pipe. Experience has shown that the successful performance of this product depends upon the proper selection of sheet thickness, type of bedding and backfill, controlled manufacture in the plant, and care in the installation. The installation procedure is described in the *AASHTO LRFD Bridge Construction Specifications*, Section 26.

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## 2. REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
- M 190, Bituminous-Coated Corrugated Metal Culvert Pipe and Pipe-Arches
  - M 218, Steel Sheet, Zinc-Coated (Galvanized), for Corrugated Steel Pipe
  - M 232M/M 232, Zinc Coating (Hot-Dip) on Iron and Steel Hardware
  - M 243, Field-Applied Coating of Corrugated Metal Structural Plate for Pipe, Pipe-Arches, and Arches
  - M 246, Steel Sheet, Metallic-Coated and Polymer-Precoated, for Corrugated Steel Pipe
  - M 289, Aluminum-Zinc Alloy Coated Sheet Steel for Corrugated Steel Pipe
  - T 65M/T 65, Mass [Weight] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
  - T 249, Helical Lock Seam Corrugated Pipe
  - *AASHTO LRFD Bridge Construction Specifications*
  - *AASHTO LRFD Bridge Design Specifications*