

SPECIFICATION REFERENCES

Adopted from NCSPA Drainage Design Manual



MATERIAL SPECIFICATIONS

Material	Description	AASHTO	ASTM
Zinc Coated Sheets and Coils	Steel Base Metal with 2 oz/sq ft zinc coating	M-218	A929M
Polymer Coated Sheets and Coils	Polymer coatings applied to sheets and coils, .010" both sides	M-245	A7472M
Aluminum Coated Coils-Type 2	Steel base metal with 1oz/sq ft of pure aluminum	M-274	A929M
Aluminum Alloy Sheet and Coil	Aluminum Alloy sheet for Corrugated Aluminum	M-197	B744
Sewer and Drainage Pipe	Corrugated pipe fabricated from any of the above sheets or coils. Pipe is fabricated by corrugating continuous coils into helical form with lock seam or welded seam, or by rolling annular corrugated mill sheets and riveting or spot welding seams. 1.)Galvanized Corrugated Steel Pipe 2.)Polymeric pre-coated sewer and drainage 3.)Aluminized Type 2 corrugated steel pipe 4.)Structural plate pipe 5.)Corrugated Aluminum Pipe	M-36 M-245 M-167 M-167 M-196	A760M A762M A760M A761M B745
Gaskets and Sealants	Standard O-ring gaskets Sponge neoprene gaskets Gasketing strips, butyl or neoprene Mastic Sealant		C443 D1056

DESIGN SPECIFICATIONS

Agency	Reference
AASHTO	Standard Specification for Highway Bridges(Steel and Aluminum)- Division I, Section 12 CSP Coupling Systems - Section 26 LRFD Bridge Design Specifications- Section 12
ASTM	Standard Practice for Structural Design of Corrugated Pipe, Pipe Arches, and Arches for Storm and Sanitary Sewers and Other Buried Applications: Steel - A796 Aluminum - B790 Standard Specification for Corrugated Steel Pipe Coupling Systems - A760

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INSTALLATION SPECIFICATIONS

Agency	Reference
AASHTO	Standard Specification for Highway Bridges-Division II, Section 26 (Steel and Aluminum) LRFD Bridge Construction Specifications
ASTM	*Standard Practice for Installing Factory Made Corrugated Steel Pipe for Sewers and Other Applications - ASTM A798 * Standard Practice for Installing Corrugated Steel Structural Plate Pipe for Sewers and other Applications -ASTM A807 * Standard Practice for Installing Factory-Made Corrugated Aluminum Culverts and Storm Sewer Pipe - ASTM B788
AREMA	Manual for Railway Engineering - Section 4.12
US Dept of Ag. – Natural Resource Conservation	Construction Specification Section 51 Paragraph 6
US Dept of Ag. – Forest Service	Specification for Construction of Roads and Bridges, Sections 603.04-603.08
Federal Lands Highway	FP92 Section 602.03;602.05;602.07;602.08