



Standard Specification for Steel Sheet Piling¹

This standard is issued under the fixed designation A 328/A 328M; 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 reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers carbon steel sheet piling of structural quality for use in the construction of dock walls, sea walls, cofferdams, excavations, and like applications (see Specification A 572/A 572M).

1.2 When the steel is to be welded, it is presupposed that a welding procedure suitable for the grade of steel and intended use or service will be utilized. See Appendix X3 of Specification A 6/A 6M for information on weldability.

1.3 The values stated in either inch-pound units or SI units are to be regarded as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with this specification.

1.4 For structural piling produced from coil, the additional requirements, including additional testing requirements and the reporting of additional test results, of Specification A 6/A 6M apply.

2. Referenced Documents

2.1 ASTM Standards:

A 6/A 6M Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes, and Sheet Piling²

A 36/A 36M Specification for Carbon Structural Steel²

A 307 Specification for Carbon Steel Bolts and Studs, 60 000 psi Tensile Strength³

A 325 Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength³

A 325M Specification for High-Strength Bolts for Structural Steel Joints [Metric]³

A 502 Specification for Steel Structural Rivets³

A 563 Specification for Carbon and Alloy Steel Nuts³

A 563M Specification for Carbon and Alloy Steel Nuts [Metric]³

A 572/A 572M Specification for High-Strength Low-Alloy

Columbium-Vanadium Structural Steel²

F 568M Specification for Carbon and Alloy Steel Externally Threaded Metric Fasteners³

3. General Requirements for Delivery

3.1 Material furnished under this specification shall conform to the requirements of the current edition of Specification A 6/A 6M, for the ordered material, unless a conflict exists in which case this specification shall prevail.

3.1.1 Coiled product is excluded from qualification to this specification until it is decoiled, leveled and cut to length. Structural piling produced from coil means structural piling that have been cut to individual lengths from a coiled product and are furnished without heat treatment. The processor decoils, levels, cuts to length and marks the product. The processor is responsible for performing and certifying all tests, examinations, repairs, inspections or operations not intended to affect the properties of the material. For structural piling produced from coils, two test results shall be reported for each qualifying coil.

NOTE 1—Additional requirements regarding structural piling produced from coil are described in Specification A 6/A 6M.

4. Appurtenant Materials

4.1 When components of a steel structure are identified with this ASTM designation but the product form is not listed in the scope of this standard, the material shall conform to one of the standards listed in Table 1 unless otherwise specified by the purchaser. Table 1 does not provide any specification requirements to a manufacturer or processor. Orders to a manufacturer or processor should describe the required ASTM designation for product forms not listed in the scope of this specification.

5. Process

5.1 The steel may be made by any process that produces material meeting the requirements set forth in this specification.

6. Chemical Requirements

6.1 The heat analysis shall conform to the requirements prescribed in Table 2.

6.2 The steel shall conform on product analysis to the requirements prescribed in Table 2, subject to the product analysis tolerances in Specification A 6/A 6M.

¹ This specification is under the jurisdiction of ASTM Committee A-1 on Steel, Stainless Steel, and Related Alloys and is the direct responsibility of Subcommittee A01.02 on Structural Steel for Bridges, Buildings, Rolling Stock, and Ships.

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² Annual Book of ASTM Standards, Vol 01.04.

³ Annual Book of ASTM Standards, Vol 15.08.