

# Specification for Drilling and Well Servicing Structures

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## Errata 1

Section 8.3.3.2, below 2<sup>nd</sup> paragraph: Replace the equation with the following:

$$K_{sh} = 1.11\rho^2 - 1.64\rho + 1.14 \quad 0.5 \leq K_{sh} \leq 1.0$$

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# Specification for Drilling and Well Servicing Structures

## 1 Scope

This specification states requirements and gives recommendations for suitable steel structures for drilling and well servicing operations in the petroleum industry, provides a uniform method of rating the structures, and provides two Product Specification Levels (PSLs).

This specification is applicable to all new steel derricks, masts (including masts with guy lines and service rig masts), substructures, and crown block assemblies with a date of manufacture after the effective date of this specification.

Annex A provides a number of standard Supplementary Requirements (SRs) that apply only if specified by the purchaser. Annex B is an informative Annex to assist in an understanding/application of this API specification. Annex C is an informative Annex regarding the API Monogram Program and the API Monogram marking requirements. Annex D is an informative Annex providing guidelines to assist the Purchaser with purchasing equipment manufactured to the requirements in this API document.

## 2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

API Recommended Practice 2A-WSD, *Recommended Practice for Planning, Designing and Constructing Fixed Offshore Platforms—Working Stress Design*

API Bulletin 2INT-MET, *Interim Guidance on Hurricane Conditions in the Gulf of Mexico*

API Recommended Practice 4G, *Recommended Practice for Use and Procedures for Inspection, Maintenance, and Repair of Drilling and Well Servicing Structures*

API Specification 8C, *Specification for Drilling and Production Hoisting Equipment (PSL 1 and PSL 2)*

API Specification 9A, *Specification for Wire Rope*

API Recommended Practice 9B, *Recommended Practice on Application, Care and Use of Wire Rope for Oilfield Service*

AISC 335-89<sup>1</sup>, *Specification for Structural Steel Buildings—Allowable Stress Design and Plastic Design*

ANSI/AISC 360, *Specification for Structural Steel Buildings*

ASCE/SEI 7-05<sup>2</sup>, *Minimum Design Loads for Buildings and Other Structures*

ASTM A370<sup>3</sup>, *Standard Test Methods and Definitions for Mechanical Testing of Steel Products*

ASTM A578/A578M, *Standard Specification for Straight-Beam Ultrasonic Examination of Rolled Steel Plates for Special Applications*

AWS D1.1/L 1.1M<sup>4</sup>, *Structural Welding Code — Steel*

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<sup>1</sup> American Institute of Steel Construction, 1 East Wacker Drive, Suite 3100, Chicago, Illinois 60601, [www.aisc.org](http://www.aisc.org).

<sup>2</sup> American Society of Civil Engineers, 1801 Alexander Bell Drive Reston, Virginia 20191, [www.asce.org](http://www.asce.org).

<sup>3</sup> ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken, Pennsylvania 19428-2959, [www.astm.org](http://www.astm.org).

<sup>4</sup> American Welding Society, Incorporated, 550 Northwest LeJeune Road, Box 351040, Miami, Florida 33135, [www.aws.org](http://www.aws.org).