

GP 04-04-01	Marine Piers and Mooring Facilities	October 2004
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Marine Piers and Mooring Facilities

GP 04-04-01

Scope

[I] This Global Practice (GP) covers the design of steel and reinforced concrete marine piers and related marine facilities.

[I] An asterisk (*) indicates that additional information is required. If a job is contracted, this additional information is furnished in the Job Specification.

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1. Required References

[I] This Section lists Practices and Standards that are generically referenced and assumed to be a part of this document. Unless otherwise specified herein, use the latest edition.

1.1. Global Practices–ExxonMobil Engineering Practices

GP 04-01-03	Design Loads for Structures
GP 04-04-03	Marine Fender System

1.2. AASHTO–American Association of State Highway and Transportation Officials

AASHTO HB	Standard Specifications for Highway Bridges
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1.3. ACI–American Concrete Institute

ACI 318M/318RM	Building Code Requirements for Structural Concrete and Commentary
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1.4. AISC–American Institute of Steel Construction

AISC 316	Manual of Steel Construction Allowable Stress Design
AISC 325	LRFD Manual of Steel Construction
AISC 335	Specification for Structural Steel Buildings Allowable Stress Design and Plastic Design-Supplement 1
AISC S335-89S1	Supplement No. 1 to the Specifications for Structural Steel Buildings - Allowable Stress Design and Plastic Design

2. Definitions

- 1) [I] Dead load (in addition to that defined by ACI and AISC) includes:
 - a) The total weight (mass) of the structure and all materials permanently fastened thereto or supported thereby, including fireproofing, piping, insulation, empty equipment, and attached piping.
 - b) Hydrostatic forces caused by liquids permanently contained within the structure to provide stability (permanent ballast) and by the water surrounding the structure.
- 2) [I] Fluid loads are the gravity loads of liquid or solid materials in equipment and piping during operation or hydrotests.

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