



Exploration & Production

GENERAL SPECIFICATION

STRUCTURAL

GS EP STR 431

**Installation of piles for offshore steel structures.
Driven piles**

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1. Scope

The document defines the minimum requirements to the studies and works associated with installation of piles and conductor pipes.

The document also defines references for obtaining satisfactory and consistent quality in the reports to be provided by the Contractor in charge of pile or conductor pipe driving works.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated in the CONTRACT, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT. References to superseded standards that may occur on technical documents will not over-write this clause.

Recognition of reference documents

Only the main reference documents are mentioned. The Contractor shall be responsible for complying with all secondary reference documents dealing with the subject of this document.

Unless otherwise indicated in the detailed contractual conditions, all the reference documents to be used as well as their supplements, shall be the latest editions.

Standards

Reference	Title
ISO 1000	Specification for SI Units and Recommendations for the Use of their Multiples and of Certain other Units
ISO 9001	Quality management systems: Requirements
ISO 19900	Petroleum and natural gas industries - General requirements for offshore structures
DNV	Rules for Planning and Execution of Marine Operations
API RP 2A - WSD	Recommended Practice for Planning, Designing and Constructing Fixed Offshore Platforms. Working Stress Design
API RP 2T	Recommended Practice for Planning, Designing and Constructing Tension Leg Platforms

Professional Documents

Reference	Title
Not applicable	



Regulations

Reference	Title
Not applicable	

Codes

Reference	Title
Not applicable	

Other documents

Reference	Title
Not applicable	

Total General Specifications

Reference	Title
GS EP STR 301	Fabrication of offshore steel structures
GS EP STR 432	Installation of piles for offshore steel structures. Drilled and grouted piles

3. General

Proper installation of piling, including conductor piles, is vital to the life and permanence of the platform and requires each pile to be driven or drilled and grouted to the design target penetration, without damage, and for all field-made structural connections to be compatible with the design requirements.

When installing a tripod, particular attention shall be taken for the self-penetration piles sequence due to its on bottom stability sensitivity with piles inserted in legs, when possible the tripod should be "secured" alongside the vessel with non-tensioned polypropylene ropes.

Unless otherwise indicated, piles shall be placed as stipulated by [API RP 2A - WSD](#).

No piles shall be stabbed until Company has reviewed and approved the location and level of the jacket on the seabed.

The Contractor shall take all measures necessary to avoid dropping any equipment into the sea.

The Contractor shall make good any faults occurring on the piles during installation (driving, skimming, etc.).

4. Pile preparation

Pile sections shall be identified with the chronological driving sequence.