



Exploration & Production

GENERAL SPECIFICATION

CIVIL WORKS

GS EP CIV 500

Special foundations for onshore Structures

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1. Scope

This specification deals with deep foundations, such as driven piles, cored and cast-situ piles, diaphragm walls, wells, etc. involved in the construction of onshore structures or structures comparable to onshore structures. Offshore structures are excluded.

The specification deals also with the reinforced concrete foundation for vibrating or rotating equipments.

General Specifications define what the Company considers as an acceptable minimum. Nonetheless certain equipment and/or works may present particular problems. In such a case the Company reserves the right to supplement them with Particular Specifications.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

When local national standards, regulations and codes exist, all design, engineering, materials and construction shall conform to their latest requirements, which complete or modify the present specifications.

In case of lack of mandatory local national standards, international norms and standards will be applied.

In case of lack of international norms and standards, national norms and standards listed hereafter will be applied.

In all cases the system adopted shall be consistent, i.e. the various texts shall present no incompatibility. Any dispute shall be resolved by basing works on the most stringent text for the Contractor and at his expense.

The list of specifications and norms quoted is not exhaustive: the Contractor shall respect the secondary standards and regulations, which cover the works described in the present specification.

Certain specifications and norms may be indicated with an issue date. This is for information only and on the understanding that the most recent issue shall be used.

Standards

European standards and codes

Reference	Title
Eurocode 7	<i>Calcul géotechnique, Partie 1 : Règles générales</i> (Geotechnical design, Part 1: General rules)

French standards and codes

Reference	Title
CCTG Fascicule n° 68 - Titre 1 ^{er}	<i>Exécution des travaux de fondation d'ouvrages de génie civil</i> (Construction of foundations for civil structures)
CCTG Fascicule n° 62 - Titre V	<i>Règles techniques de conception et de calcul des fondations des ouvrages de génie civil</i> (Technical rules for design and calculation of foundations for civil structures)
NF P94 - 150 (Parts 1; 2) (1999)	Static test on single pile - (Parts 1; 2)
NF P94 - 151 (1993)	Isolated pile test under static transversal load
NF P94 - 153 (1993)	Essai statique de tirant d'ancrage (Tension rod test)
P11-212 / DTU No. 13.2 - 1992	Deep foundations works for building

American standards and codes

Reference	Title
ASTM D 1143 - 07	Standard Method for deep foundations under static axial compressive load
ASTM D 4945 - 00	Standard Test Method for High-Strain Dynamic Testing of Piles
ASTM D 5780 - 95 (R2002)	Standard Test Method for Individual Piles in Permafrost Under Static Axial Compressive Load
ASTM D 5882 - 07	Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations
ASTM D 6760 - 02	Standard Test Method for Integrity Testing of Concrete Deep Foundations by Ultrasonic Crosshole Testing

British standards and codes

Reference	Title
BS 8004 - 1996 (R2003)	Code of Practice for Foundations

Professional Documents

French documents

Reference	Title
Recommandations T.A.95	<i>Tirants d'ancrage</i> (Anchorage ties) - Comité français de la Mécanique des sols