



Exploration & Production

GENERAL SPECIFICATION

CIVIL WORKS

GS EP CIV 406

Thermal and acoustic insulation

03	10/07	Update of References -Addition of References
02	10/05	Addition of "EP" root to GS identification
01	09/03	Change of Group name and logo
00	11/01	First issue
Rev.	Date	Notes

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1. Scope

This specification concerns the thermal and acoustic insulation for buildings and industrial installations dealt with by the COMPANY, either onshore or offshore.

This specification stipulates what the COMPANY considers as an acceptable minimum. However, the COMPANY may consider that certain aspects of the works may be of a particular nature. In this case, the COMPANY reserves the right to make supplementary requirements.

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 obligatory 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 coherent, 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.

All drawings and documents drawn up by the CONTRACTOR shall be submitted for COMPANY approval, in accordance with general requirements.

Standards

International standards and codes

Reference	Title
ISO 140-4 - 1998	Acoustics - Measurement of sound insulating in buildings and of building elements - Part 4: Field measurements of airborne sound insulation between rooms
ISO 140-5 - 1998	Acoustics - Measurement of sound insulating in buildings and of building elements - Part 5: Field measurements of airborne sound insulation of facades
ISO 140-7 - 1998	Acoustics - Measurement of sound insulating in buildings and of building elements - Part 7: Field measurements of impact sound insulation of floors

Reference	Title
ISO 354 - 2004	Acoustics – Measurement of sound absorption in a reverberation room
ISO 717-1 - 1997	Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation
ISO 717-2 - 1997	Acoustics - Rating of sound insulation in buildings and of building elements - Part 2: Impact sound insulation
ISO 1996-1 - 2005	Acoustics - Description and Measurement of Environmental noise - Part 1: Basic quantities and procedures
ISO 1996-2 - 2005	Acoustics - Description and Measurement of Environmental noise - Part 2: Acquisition of data pertinent to land use
ISO 1996-3 - 2005	Acoustics - Description and Measurement of Environmental noise - Part 3: Application to noise limits
ISO 1999 - 1990	Acoustics - Determination of occupational noise exposure and estimation of noise induced hearing impairment
ISO 10211-1 - 1995	Thermal bridges in building construction - heat flows and surface temperatures - Part 1: General calculation methods
ISO 10211-2 - 2002	Thermal bridges in building construction – Calculation of heat flows and surface temperatures – Part 2: Linear thermal bridges
ISO 12241-1 - 1998	Thermal insulation for building equipment and industrial installations - Calculation rules
ISO 13370 - 1999	Thermal performance of buildings - Heat transfer via the ground - Calculation methods
ISO 13789 - 2000	Thermal performance of buildings - Transmission heat loss coefficient - Calculation methods