

DEP SPECIFICATION

**WELDABLE STRUCTURAL STEELS FOR FIXED  
OFFSHORE STRUCTURES  
(AMENDMENTS/SUPPLEMENTS TO EN 10225)**

DEP 37.19.10.30-Gen.

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**DESIGN AND ENGINEERING PRACTICE**



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## PART I INTRODUCTION

### 1.1 SCOPE

This DEP specifies requirements and gives recommendations for the supply of weldable structural steel materials for use in fixed offshore structures. It applies to steel jacket substructures, foundation piles and decks.

The scope of this DEP includes the supply of plates, rolled sections, seamless hollow section and welded (HFW) hollow sections. The delivery requirements for tubular members fabricated from rolled plate are also specified. The DEP applies both to material supplied by the Manufacturer/Supplier and by stockists.

Three steel categories are covered:

- Primary: All main structures.
- Secondary: Secondary structure, i.e., deck stringers, equipment supports and flooring.
- Tertiary: Stairs Handrails, access platforms.

(PART III) of this DEP specifies the technical requirements for primary steel, presented in the form of amendments and supplements to EN 10225:2009, with supplements to address the supply of primary steel tubular members fabricated from plate.

(PART IV) of this DEP specifies the technical requirements for secondary and tertiary steels, with reference to EN 10025:2004.

(PART V) of this DEP specifies the documentation and information requirements for primary steel and requirements for storage and the maintenance of traceability.

This is a revision of the DEP of the same number dated February 2017; see (1.5) regarding the changes.

### 1.2 DISTRIBUTION, INTENDED USE AND REGULATORY CONSIDERATIONS

Unless otherwise authorised by Shell GSI, the distribution of this DEP is confined to Shell companies and, where necessary, to Contractors and Manufacturers/Suppliers nominated by them. Any authorised access to DEPs does not for that reason constitute an authorisation to any documents, data or information to which the DEPs may refer.

This DEP is intended for use in facilities related to offshore exploration and production facilities.

When DEPs are applied, a Management of Change (MOC) process shall be implemented; this is of particular importance when existing facilities are to be modified.

If national and/or local regulations exist in which some of the requirements could be more stringent than in this DEP, the Contractor shall determine by careful scrutiny which of the requirements are the more stringent and which combination of requirements will be acceptable with regards to the safety, environmental, economic and legal aspects. In all cases, the Contractor shall inform the Principal of any deviation from the requirements of this DEP which is considered to be necessary in order to comply with national and/or local regulations. The Principal may then negotiate with the Authorities concerned, the objective being to obtain agreement to follow this DEP as closely as possible.

### 1.3 DEFINITIONS

#### 1.3.1 General definitions

The **Contractor** is the party that carries out all or part of the design, engineering, procurement, construction, commissioning or management of a project or operation of a facility. The Principal may undertake all or part of the duties of the Contractor.

The **Manufacturer/Supplier** is the party that manufactures or supplies equipment and services to perform the duties specified by the Contractor.

The **Principal** is the party that initiates the project and ultimately pays for it. The Principal may also include an agent or consultant authorised to act for, and on behalf of, the Principal.

The word **shall** indicates a requirement.

The word **should** indicates a recommendation.

The word **may** indicates a permitted option.

### 1.3.2 Specific definitions

Refer to EN 10025 and EN 10225 for definitions.

## 1.4 CROSS-REFERENCES

Where cross-references to other parts of this DEP are made, the referenced section number is shown in brackets. Other documents referenced by this DEP are listed in (Part VI).

## 1.5 SUMMARY OF MAIN CHANGES

This DEP is a minor revision of the DEP of the same number dated February 2017. The following are the main, non-editorial changes.

| Section/Clause    | Change                                                                                                                                                                            |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ALL               | Updated the title to remove EN 10025.                                                                                                                                             |
| ALL               | Restructured to amendment/supplement DEP format.                                                                                                                                  |
| Part III, 8.3     | Deleted amendment of Charpy test for Table 7 in EN 10225.                                                                                                                         |
| Part III, Annex E | Moved amendments from section 8 to Annex E.                                                                                                                                       |
| Part IV, 3        | Removed instruction for designating secondary steel as type IV.<br>Added option to supply sections as-rolled if less than 25mm.<br>Deleted reference to Option 7 for examination. |
| Part IV, 4        | Removed instruction for designating secondary steel as type V.                                                                                                                    |

## 1.6 COMMENTS ON THIS DEP

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|                                                                      |                                                                                                                                                                                                                                                                   |
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