

Structural aluminium fabrication

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NORSOK STANDARD

M-102

Structural aluminium fabrication

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Foreword

NORSOK (the competitive standing of the Norwegian offshore sector) is the industry initiative to add value, reduce cost and lead time and remove unnecessary activities in offshore field developments and operations.

The NORSOK standards are developed by the Norwegian petroleum industry to ensure adequate safety, value adding and cost effectiveness for petroleum industry developments and operations. Furthermore, NORSOK standards are, as far as possible, intended to replace oil company specifications and serve as references in the authorities' regulations.

The NORSOK standards are normally based on recognised international standards, adding provisions deemed necessary to fill the broad needs of the Norwegian petroleum industry. Where relevant, NORSOK standards will be used to provide the Norwegian petroleum industry input to the international standardisation process. Subject to development and publication of international standards, the relevant NORSOK standard will be withdrawn.

The NORSOK standards are developed according to the consensus principle generally applicable for most standards work and according to established procedures defined in NORSOK A-001.

The NORSOK standards are prepared and published with the support by Norwegian Oil and Gas, the Federation of Norwegian Industries, Norwegian Shipowners' Association and the Petroleum Safety Authority Norway.

NORSOK standards are administered and published by Standards Norway (SN).

1 Scope

This NORSOK standard covers the requirements for the execution of aluminium structures used in offshore installations.

2 Normative references

The following standards include provisions which, through reference in this text, constitute provisions of this NORSOK standard. Latest issue of the references shall be used unless otherwise agreed. Other recognized standards may be used provided it can be shown that they meet or exceed the requirements of the standards referenced below.

EN 1090-3, *Execution of steel structures and aluminium structures. Part 3: Technical requirements for aluminium structures*

NORSOK M-121, *Aluminium structural material*

NORSOK N-001, *Structural design*

EN ISO 25239-3, *Friction stir welding – Aluminium Part 3: Qualification of welding operators*

EN ISO 25239-4, *Friction stir welding – Aluminium Part 4: Specification and qualification of welding procedures*

EN ISO 25239-5, *Friction stir welding – Aluminium Part 5: Quality and inspection requirements*

3 Definitions and abbreviations

3.1 Definitions

3.1.1

can

verb used for statements of possibility and capability, whether material, physical or casual

3.1.2

execution

all activities performed for the physical completion of the works i.e. procurement, preparation, welding, mechanical fastening, transportation, erection, surface treatment and inspection and documentation thereof

3.1.3

shall

verbal form used to indicate requirements strictly to be followed in order to conform to this NORSOK standard and from which no deviation is permitted

3.1.4

should

verbal form used to indicate that among several possibilities one is recommended as particularly suitable, without mentioning or excluding others, or that a certain course of action is preferred but not necessarily required

3.2 Abbreviations

EN	European Standard
EXC	execution class
FSW	friction stir welding
ISO	International Organization of Standardization
NDT	non-destructive testing
PC	production category