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Introduction

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



DRAFT International Standard

ISO/DIS 24203

Oil and gas industries including lower carbon energy — Bulk material for offshore projects — Standard schedule for architectural doors

ICS: 75.180.10

ISO/TC 67

Secretariat: **NEN**

Voting begins on:
2024-09-09

Voting terminates on:
2024-12-02

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 67, *Oil and gas industries including lower carbon energy*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document aims to provide clear definitions of listed items for architecture door schedules and standard form for door schedule for offshore projects in response to current lack of requirements and specifications for door schedules and items.

Thus, individual project door schedules have often failed to be compatible across different projects considering bespoke project specifications. A suggested solution is to apply one unified door schedule. This document aims to reduce the number and variations in requirements to the minimum necessary to reflect a common and global best practice based upon existing standards and regulations.

The main benefits are to gain a reduced delivery time, more streamlined and efficient engineering and construction.

Oil and gas industries including lower carbon energy — Bulk material for offshore projects — Standard schedule for architectural doors

1 Scope

This standard covers architectural doors applied to topside and living quarter areas for fixed or floating offshore oil and gas projects.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

There are no normative references in this document.

3 Terms and Definitions and abbreviated terms

For the purposes of this document, the following terms and abbreviated terms apply.

3.1 Definitions

3.1.1

blast overpressure

a rapidly propagating pressure or shockwave in the atmosphere, with high pressure, high density and high particle velocity, e.g. explosion and wave slamming

3.1.2

coaming height

CH

height from deck to cutting position for fitting door frame

3.1.3

cylinder mortise latch

CML

a door lock which can open and close the door by using key from the outside and thumb turn from the inside

3.1.4

gastight door

a solid, close-fitting door designed to resist the passage of gas or air under normal atmospheric condition

3.1.5

indication mortise latch

IML

a door lock which is designed so that the opening and closing of the door can be recognized from the outside

3.1.6

mortise latch

ML

a door lock which can open and close the door without key cylinder

3.1.7

panic bar

a mechanism for unlatching a door, consisting of a spring-loaded metal bar fixed horizontally or vertically to the front side of the door that opens outward

3.1.8

weathertight door

a door capable of preventing the penetration of water into the structure during temporary exposure to water

4 Design requirement for items of standard schedule for architectural door

4.1 General information

4.1.1 Tag number; doors shall be tagged, marked and coded in accordance with project specification.

4.1.2 Room or area number; room number or area number to recognize the identification of a room should be denoted in accordance with project specification.

4.1.3 Room name; room should be named to recognize the purpose of the room in accordance with project specification.

4.1.4 Drawing number; the drawing number for the relevant door arrangement shall be represented to refer to the relevant information.

4.1.5 Internal or external door; in a door schedule, the installation boundary of door shall be defined as internal door or external door.

4.1.6 Gastight door; gastight doors are located in the perimeter of areas where an air pressure differential shall be maintained, or where specified in the door schedule.

If the door is required to be gastight, it shall be denoted with a mark in the door schedule for recognizing the gastight door. Gastight doors shall maintain a pressure differential between adjacent areas in accordance with project specification.

4.1.7 Weathertight door; weathertight doors shall be weathertight meaning that no water will penetrate the unit provided any operation conditions. verbal form used for statements of possibility and capability, whether material, physical or causal.

If the door is required to be weathertight, it shall be denoted with a mark in the door schedule for recognizing weathertight door.

4.1.8 Fire rating; fire rating of a door shall be defined by fire integrity plan in accordance with project specification and Safety of Life at Sea Treaty (SOLAS) and shall be certified in accordance with Fire Test Procedures (FTP).

4.1.9 Blast overpressure; blast overpressure shall be defined in accordance with project specification.

4.2 Door details

The items for door details in standard schedule for architectural doors are described in this section.

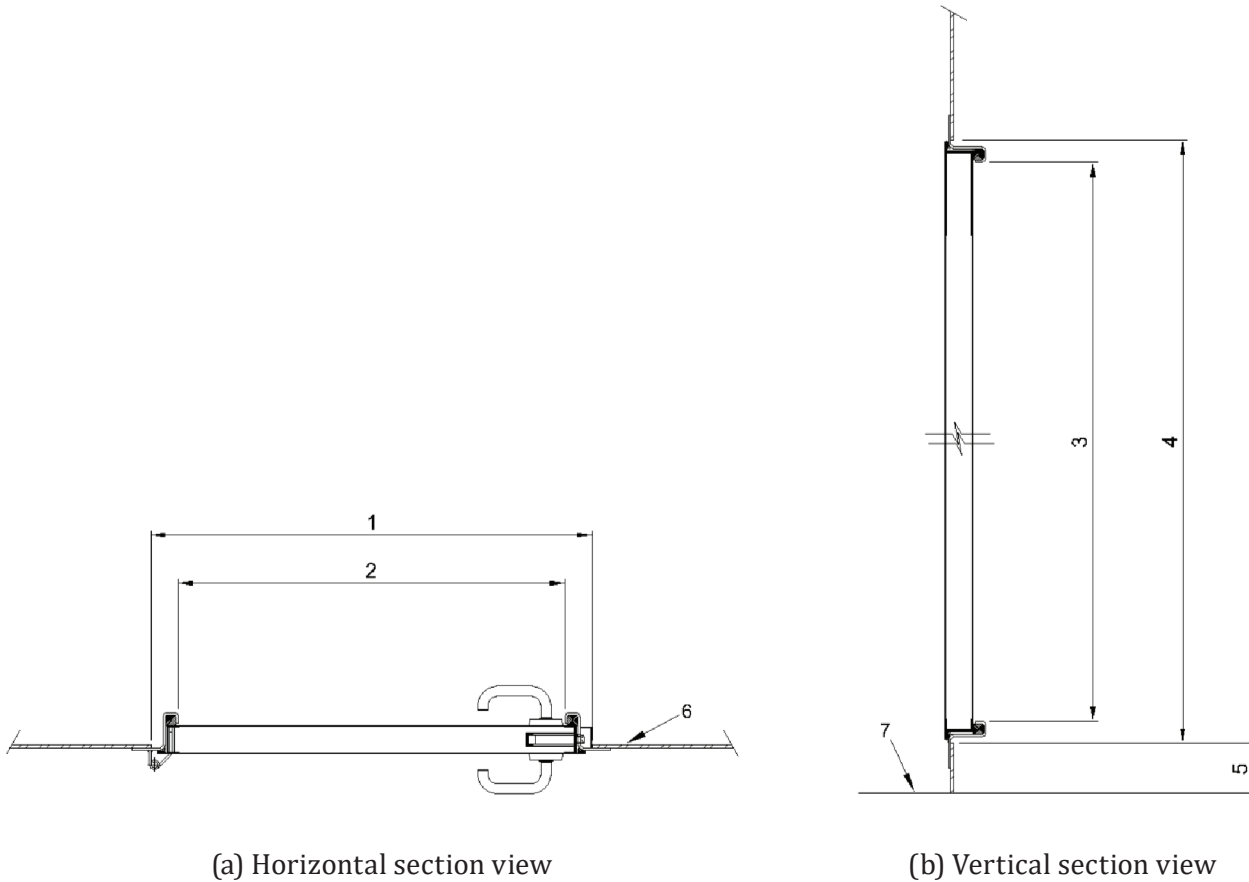
4.2.1 Clear opening and structure or wall cut-out

Required clear opening in bulkhead should be defined for door supplier, based on structure cut-out in bulkhead or wall backup frame including installation tolerances.

Explanatory illustration of clear opening and structure or wall cut-out and coaming height are shown in [Figure 1](#).

Door shall have a clear opening of at least 700 mm width and 2 050 mm height from floor finish or deck.

Doors for a private bathroom may have 600 mm width and 1 950 mm height exceptionally.



Key

- 1 width of structure or wall cut-out
- 2 width of clear opening
- 3 height of clear opening
- 4 height of structure or wall cut-out
- 5 coaming height
- 6 bulkhead
- 7 deck

Figure 1 — Clear opening, structure or wall cut-out and coaming height

4.2.2 Opening operation

The type of operation system should be determined in cooperation with the door supplier based on the opening pressure requirements and weights of each door in accordance with project specification. For a door schedule, the types of opening operation shall include followings:

- Manual operation
- Electrical operation

- Pneumatic operation
- Hydraulic operation

The system shall be activated by the door handle, if not otherwise noted in the schedule.

4.2.3 Frame fixing method

Frame fixing methods shall include followings:

- Bolted type
- Welded type
- Clamped type
- Screwed type

Each type of frame fixing method is shown in [Figure 2](#).

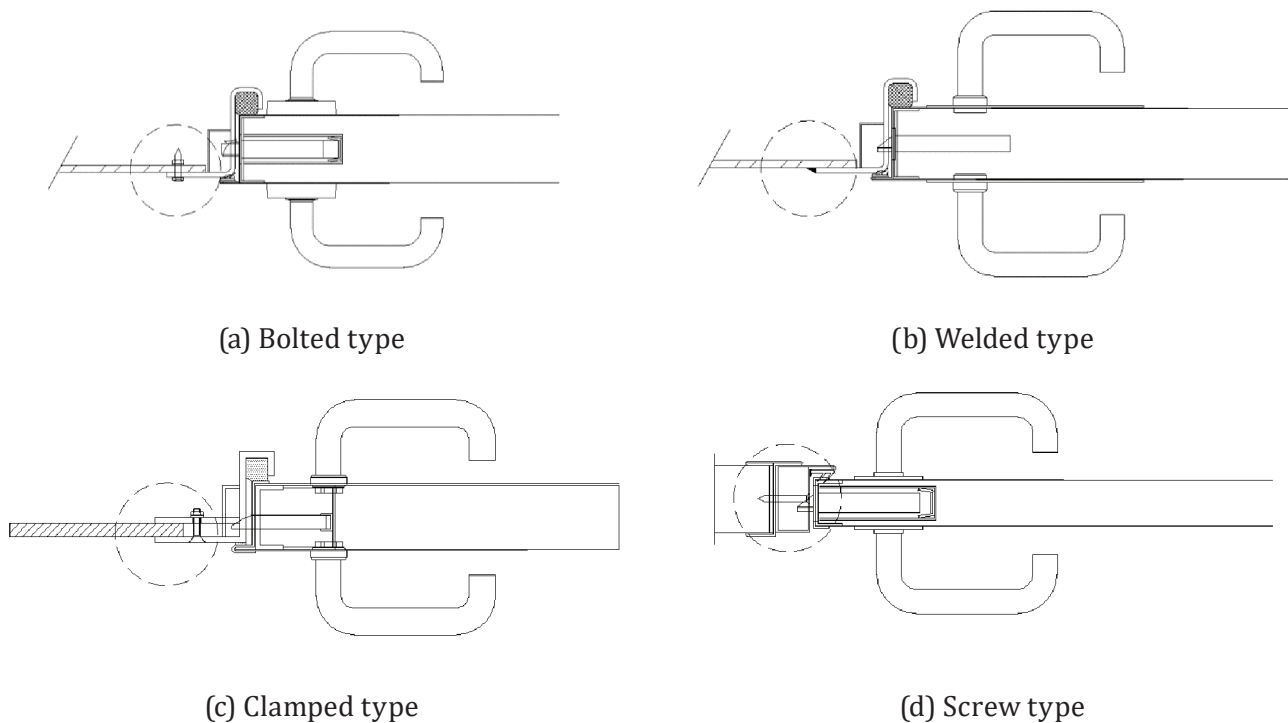


Figure 2 — Frame fixing methods

4.2.4 Door open direction

Door open direction for the hinged door and the sliding door and symbols are defined as follows:

- Hinged to right (HR)
- Hinged to left (HL)
- Double hinged to right active door (DHR)
- Double hinged to left active door (DHL)
- Sliding to right (SR)
- Sliding to left (SL)

Door open direction for the hinged door and the sliding door is shown in [Figure 3](#).

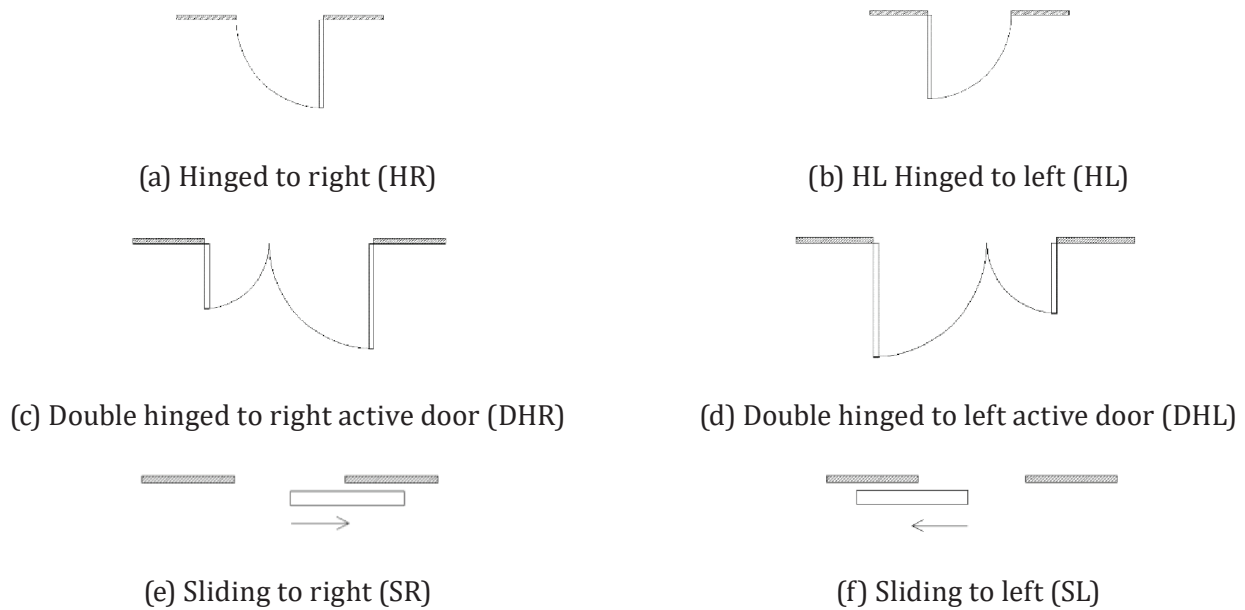


Figure 3 — Door operation – plan view

4.2.5 Leaf and frame material

Material selection for door leaf and frame shall include followings :

- Stainless Steel (SS)
- Carbon Steel (CS)
- Aluminium (AL)

4.2.6 Door finish method

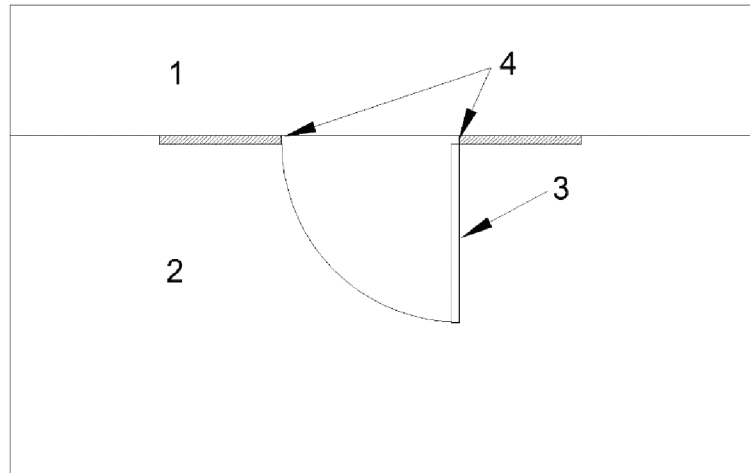
All carbon steel doors shall be painted or filmed in accordance with project requirements. Stainless steel doors shall not be painted, unless specified otherwise in the door schedule. Aluminium doors used as external doors shall be coated suitably in accordance with project requirements.

Door finish method is to be defined as follows:

- Paint: door leaf and frame are to be painted according to manufacturer's standard.
- Film: door leaf and frame are to be filmed by Polyvinyl Chloride (PVC) according to manufacturer's standard,

4.2.7 Colour of door

Colours for room inside and room outside of door and frame as shown in [Figure 4](#) should be defined in accordance with project specification.

**Key**

- 1 room outside
- 2 room inside
- 3 leaf
- 4 frame

Figure 4 — Reference figure for room inside, room outside and frame

4.2.8 Threshold type

The following threshold types are to be applied:

- Fixed threshold
- Removable threshold

4.2.9 Threshold height

The maximum threshold height should be defined according to the definition as illustrated in [Figure 5](#).