

Maritime works –

Part 1-1: General – Code of practice
for planning and design for
operations

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Contents

Foreword *iv*

Section 1: General 1

- 1 Scope 1
- 2 Normative references 1
- 3 Terms, definitions, symbols and abbreviations 2

Section 2: The maritime environment 12

- 4 Environmental considerations 12
- 5 Bathymetric and topographic surveys 13
 - 5.1 Survey control 14
 - 5.2 Bathymetric surveys 15
 - 5.3 Other surveys for seabed or subsurface hazards 19
- 6 Meteorological and oceanographic considerations and data acquisition 19
 - 6.1 General 20
 - 6.2 Particular considerations for surveys and data analysis 21
- 7 Meteorological effects 25
 - 7.1 General 25
 - 7.2 Wind 25
 - 7.3 Precipitation 26
 - 7.4 Air temperature and humidity 27
 - 7.5 Visibility 27
 - 7.6 Atmospheric pressure 27
 - 7.7 Solar radiation 28
- 8 Water levels 28
 - 8.1 Water level effects 29
 - 8.2 Seiches 29
 - 8.3 Surface water run-up 29
 - 8.4 Long-term sea level trends 30
- 9 Currents and water movement 30
- 10 Waves 31
- 11 Water quality 33
 - 11.1 General 33
 - 11.2 Water temperature 33
 - 11.3 Chemical composition 34
 - 11.4 Turbidity 34
 - 11.5 Marine life 35
 - 11.6 Pollution 35
- 12 Sediment transport 35
 - 12.1 General 35
 - 12.2 Assessing the present sediment transport regime 36
 - 12.3 Assessing impacts of works on sediment transport 45

Section 3: Safety and operational considerations 47

- 13 Operational considerations for planning and design 47
 - 13.1 General 47
 - 13.2 Facility operating manual 47
- 14 Health and safety 48
- 15 Control of pollution and discharges to the sea 49
 - 15.1 Vessel's waste 49

15.2	Port wastewater and surface run-off	50
16	Port and maritime security	50
17	Design working life	50
18	Vessel data	51
19	Navigation channels and ship manoeuvring	53
19.1	General	53
19.2	Planning and design studies	53
19.3	Vertical channel and manoeuvring area dimensions	55
19.4	Horizontal channel and manoeuvring area dimensions	60
20	Berths and mooring	66
20.1	General	66
20.2	Mooring and mooring conditions	69
21	Operability and weather downtime	75
22	Design operating conditions	76
23	Maintenance	77

Annexes

Annex A (informative)	Organizations with a role in coastal activities in the United Kingdom	78
Annex B (informative)	Metocean data acquisition	80
Annex C (informative)	Sediment transport data acquisition	88
Annex D (informative)	Key dimensions of ships for preliminary design purposes	89
Annex E (informative)	Guidance on assessment of acceptable wave conditions for moored vessels	101

Bibliography	107
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List of figures

Figure 1	– PIANC channel depth factors	56
Figure 2	– PIANC definition of channel and fairway	61
Figure 3	– PIANC definition of elements of channel width	61
Figure 4	– Considerations for layout and separation distances of oil and gas tanker berths	68
Figure 5	– The six degrees of freedom of vessel motion	72
Figure D.1	– Dimensions for LNG vessels related to gas capacity	90
Figure D.2	– Dimensions for LPG vessels related to gas capacity	91
Figure D.3	– Dimensions for liquid bulk carriers and tankers related to DWT	92
Figure D.4	– Dimensions for liquid bulk carriers and tankers related to DWT (carriers up to 50 000 DWT)	93
Figure D.5	– Dimensions for dry bulk carriers related to DWT	94
Figure D.6	– Dimensions for dry bulk carriers related to DWT (carriers up to 50 000 DWT)	95
Figure D.7	– Dimensions of container ships related to TEU capacity	96
Figure D.8	– Dimensions of general cargo ships related to DWT	97
Figure D.9	– Dimensions of Ro-Ro ferries related to lane length	98
Figure D.10	– Dimensions of cruise ships related to passenger capacity	99

List of tables

Table 1	– Indicative design working life categories for maritime works	51
Table 2	– Typical planning and design activities for channels and manoeuvring areas according to design stage	54

Table D.1 – Approximate values of displacement from nominal ship capacity	100
Table D.2 – Typical ranges of C_b	100
Table E.1 – Wave criteria from small craft	101
Table E.2 – Wave climate criteria for small craft considering extreme events	102
Table E.3 – Recommended maximum velocity limits 1 000 DWT to 8 000 DWT	103
Table E.4 – Guidance on maximum motion criteria for safe working conditions	104
Table E.5 – Recommended maximum motion criteria for safe working conditions of Ro-Ro vessels	104
Table E.6 – Guidance on maximum allowable significant motion amplitude conditions for container ships for (un)loading efficiency of 95%	105
Table E.7 – Surge criteria for container ships for (un)loading efficiency of 95%	105

Summary of pages

This document comprises a front cover, an inside front cover, pages i to vi, pages 1 to 110, an inside back cover and a back cover.

Foreword

Publishing information

This part of BS 6349 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 September 2013. It was prepared by Technical Committee CB/502, *Maritime works*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

Together with BS 6349-1-2, BS 6349-1-3 and BS 6349-1-4, this part of BS 6349 supersedes BS 6349-1:2000, which will be withdrawn when all four of the new subparts have been published.

Relationship with other publications

BS 6349 is published in the following parts ¹⁾:

- Part 1-1: *General – Code of practice for planning and design for operations;*
- Part 1-2: *General – Code of practice for assessment of actions;* ²⁾
- Part 1-3: *General – Code of practice for geotechnical design;*
- Part 1-4: *General – Code of practice for materials;*
- Part 2: *Code of practice for the design of quay walls, jetties and dolphins;*
- Part 3: *Design of dry docks, locks, slipways and shipbuilding berths, shiplifts and dock and lock gates;*
- Part 4: *Code of practice for design of fendering and mooring systems;*
- Part 5: *Code of practice for dredging and land reclamation;*
- Part 6: *Design of inshore moorings and floating structures;*
- Part 7: *Guide to the design and construction of breakwaters;*
- Part 8: *Code of practice for the design of Ro-Ro ramps, linkspans and walkways.*

Information about this document

A full revision of BS 6349-1:2000 has been undertaken and the principal change is to split the document into four smaller parts:

- BS 6349-1-1: *Code of practice for planning and design for operations;*
- BS 6349-1-2: *Code of practice for assessment of actions;*
- BS 6349-1-3: *Code of practice for geotechnical design;*
- BS 6349-1-4: *Code of practice for materials.*

The principal changes in respect of the planning and design content are:

- reduction of informative content, with informative guidance separated from recommendations;
- general updating of reference documents to reflect latest practice;

¹⁾ A new part 9, covering port surfacing, is in preparation.

²⁾ In preparation.

- normative referencing of specific PIANC documents;
- general updating in respect of survey and data acquisition methods in line with latest technical developments of best practice, including the adoption of IHO Standards for Hydrographic Surveys for navigation;
- increased emphasis on environmental, safety and operational matters in planning and design;
- updating of recommendations and guidance on use of physical and numerical modelling and in ship simulation for design purposes in line with latest practice;
- inclusion of additional information on key ship dimensions for preliminary design and planning.

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Use of this document

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Any user claiming compliance with this British Standard is expected to be able to justify any course of action that deviates from its recommendations.

Presentational conventions

The provisions in this standard are presented in roman (i.e. upright) type. Its recommendations are expressed in sentences in which the principal auxiliary verb is "should".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Section 1: General

1 Scope

This part of BS 6349 gives recommendations and guidance on general criteria relevant to the planning, design, construction and maintenance of structures and facilities set in the maritime environment. It also gives recommendations and guidance in respect of environmental and operational matters that need to be considered in planning and design of maritime works.

It includes a description of the various physical environmental conditions that need to be considered for investigation at a coastal site, and gives information and guidance on methods of survey and data collection.

It is applicable to coastal, nearshore, estuarine and inland marine facilities for safe navigation, berthing, mooring, loading, unloading and servicing of ships, barges and other forms of waterborne transport and the associated infrastructure, equipment and works at the ship-shore interface. It is also applicable to other civil infrastructure works at the waterfront or coastal margin such as dredging, reclamation, shoreline and coastal management works and to recreational infrastructure such as marinas.

This part of BS 6349 does not cover offshore structures for the petroleum and natural gas industries, which are specified in BS EN ISO 19900 and BS EN ISO 19901.

It does not cover recommendations for ground investigation, which are given in BS 6349-1-3.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

Standards publications

BS 6349-1:2000, *Maritime structures – Part 1: Code of practice for general criteria*

BS 6349-2, *Maritime works – Part 1-3: General – Code of practice for geotechnical design*

BS 6349-4, *Maritime structures – Part 4: Code of practice for design of fendering and mooring systems*

BS 6349-8, *Maritime structures – Part 8: Code of practice for the design of Ro-Ro ramps, linkspans and walkways*

BS EN 1990, *Eurocode – Basis of structural design*³⁾

BS EN ISO 14001, *Environmental management systems – Requirements with guidance for use*

Other publications

[N1] INTERNATIONAL HYDROGRAPHIC ORGANISATION. *IHO standards for hydrographic surveys*. Special Publication No. 44. Fifth edition. Monaco: International Hydrographic Bureau, 2008.

³⁾ This part of BS 6349 also gives an informative reference to BS EN 1990:2002+A1:2005.