



# PIANC

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## GUIDELINES FOR MARINA DESIGN

The World Association for Waterborne Transport Infrastructure



**PIANC**  
The World Association for  
Waterborne Transport Infrastructure

**PIANC REPORT N° 149/part IV**  
RECREATIONAL NAVIGATION COMMISSION

**GUIDELINES FOR MARINA DESIGN**

2017

PIANC has Technical Commissions concerned with inland waterways and ports (InCom), coastal and ocean waterways (including ports and harbours) (MarCom), environmental aspects (EnviCom) and sport and pleasure navigation (RecCom).

This report has been produced by an international Working Group convened by the Recreational Navigation Commission (RecCom). Members of the Working Group represent several countries and are acknowledged experts in their profession.

The objective of this report is to provide information and recommendations on good practice. Conformity is not obligatory and engineering judgement should be used in its application, especially in special circumstances. This report should be seen as an expert guidance and state of the art on this particular subject. PIANC disclaims all responsibility in case this report should be presented as an official standard.

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# **WG 149 – Guidelines for Marina Design**

Report of PIANC RecCom Working Group 149

*(Plan of the entire report – in bold Parts already published)*

## **PART 1 – CHAPTERS:**

- 1 - Scope and General** (Elio Ciralli, Esteban Biondi, Sip Meijer, Thomas Pehlke)
- 2 - Recommended Design Approach** (Mike Chemaly, Esteban Biondi, Sip Meyer)
- 3 - Surveys and Investigations** (Alfonso Capote)
- 4 - Vessels Characteristics** (Simon Burchett, Thomas Pehlke, Oscar Siches)

## **PART 2 – CHAPTER:**

- 5 - Marina Protection and Coastal Aspects** (Jack Cox, Elio Ciralli)

## **PART 3 – CHAPTERS:**

- 6 - Master Plan Development
- 7 - Layout of Water Areas
- 8 - Layout of Land Side Facilities

## **PART 4 – CHAPTERS:**

- 9 - Design Criteria and Loading Conditions** (Thomas Pehlke, Marisa Ackhurst, Sip Meijer)
- 10 - Berthing Systems** (Thomas Pehlke, Kathleen Bernaert, Simon Burchett, Sip Meijer)
- 11 - Utilities** (Esteban Biondi, Tim Mason, Sip Meijer, Elio Ciralli, Carlo Conti)
- 12 - Materials** (Thomas Pehlke, Wally Mosher, Terence Browne, Tim Beckett)
- 13 - Aids to Navigation** (Sip Meijer, Oscar Siches)
- 14 - Emergency Equipment** (Elio Ciralli, Oscar Siches, Thomas Pehlke)

## **PART 5 – CHAPTERS:**

- 15. Disabled Access
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