



**PIANC - Recreational Navigation Commission**

## **Working group 131**

# **CATALOGUE OF PREFABRICATED MARINA ELEMENTS**

### **TERMS OF REFERENCE**

#### **1. Historical background - Definition of the problem**

Nowadays the use of prefabricated elements in the construction of Marinas has become a very common practice. Prefabricated elements usually represent important advantages (higher performances, ecological benefits, cost reduction, construction efficiency, etc.)

As a consequence, a lot of new prefabricated units have been designed for a wide variety of applications in marina construction (floating docks, floating facilities, revetments, decking elements, mooring systems, pedestals, bollards, fenders, signals, etc.).

Marina designers and contractors are now facing the problem of identification and selection of the optimum product for their specific work. Information on prefabricated elements is nowadays disperse, not easy available and almost impossible to be evaluated.

PIANC, as an international association with a non-economic profit, is in an optimum position for producing a Catalogue of Marina Construction Elements. This document, which would include an exhaustive list of products, could be very useful for managers, port authorities, engineers, marina designers and other professionals.

The proposed catalogue will be focused on prefabricated units used for the construction of the following types of parts:

- pontoons
- floating structures and facilities;
- revetments and decking elements;
- mooring systems;
- others.

## **2. Objective of the study**

The task of the working group would consist of collecting and processing technical and commercial information of all types of prefabricated units developed for the above mentioned purpose that fulfil two requirements:

1. Commercial or technical references exist.
2. The element has been used in an actual work.

The work of the group will be published as a Catalogue or list that would include a standardized form for each type of unit comprising:

- basic technical features (shape, dimension, photographs, etc.)
- list of references of technical performances
- list of references of existing applications
- commercial status (patent, information, commercial address, etc.)

The form will not include detailed information (performance indexes, response curves, etc.) about the technical performances of the unit, but only give references to published information. Therefore, PIANC will not imply good or bad performance, nor certify accuracy of publications.

## **3. Earlier reports to be reviewed**

None.

## **4. Matters to be investigated**

Commercial products in every sector to be investigated. Technical and aesthetic characteristics of everyone of them.

## **5. Method of approach**

Definition of categories of products to investigate. Definition of technical and aesthetic characteristics interesting for the catalogue. Requests to suppliers to products files with product characteristics.

## **6. Suggested final product of the Working Group**

The product should be a paper report with a CD/DVD enclosed reporting the catalogue divided for categories of products. The report includes files about products principal characteristics and pictures.

## **7. Desirable disciplines of the members of the Working Group**

Marina designers, marina managers, marina owners, marina suppliers, contractors.

## **8. Relevance for countries in transition**

The catalogue will be a very useful instruments to confront directly the best products characteristics in marina design and construction. It will contribute to increase the quality standards in design, construction and managing marina.