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| IALA Standard |

1020

Aids to Navigation Design and Delivery

Edition 1.0

June 2018

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# INTRODUCTION

IALA publishes Standards, Recommendations, and Guidelines for the global harmonisation of the provision, maintenance, and operation of marine aids to navigation, to foster the safe, economic, and efficient movement of vessels, and for the protection of the environment.

They are defined as follows.

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| Document | **Definition** |
| IALA Standards | IALA Standards form a framework, implementation of which by all coastal states will harmonize marine aids to navigation worldwide. IALA standards cover technology and services and are non-mandatory. |
| IALA Recommendations | IALA Recommendations specify what practices shall be carried out in order to comply with a Recommendation, and may be referenced, in full or in part, in an IALA Standard. |
| IALA Guidelines | IALA Guidelines describe how to implement practices normally specified in a Recommendation. |

# PURPOSE

The IALA Strategic Vision for the period 2014-2026, adopted by the General Assembly in 2014, includes the Goal to

“Ensure that aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services, and emerging technologies, are harmonized through international cooperation and the provision of standards.”

IALA Standards are suitable for direct citation by States in the interest of an efficient and harmonised global network of marine aids to navigation and services.

# APPLICATION

This Standard is suitable for implementation by all marine aids to navigation authorities.

# SCOPE

IALA Standards may contain Normative and Informative provisions.

Normative provisions are those with which it is necessary to conform in order to claim compliance with the Standard.

Informative provisions are those which specify additional desirable practices but with which it is not necessary to conform in order to claim compliance with the Standard.

This Standard references Normative and Informative provisions, detailed in the listed IALA Recommendations, covering the following scope.

* Visual signalling (Vision, Colour, Conspicuity, Rythmic characters)
* Range and performance (Visual and Audible)
* Design, Implementation, and Maintenance
* Power systems
* Floating Aids to Navigation (Buoys, Moorings, Stability)
* Environment, Sustainability, and Legacy

# REFERENCED DOCUMENTS

In this Standard, any reference to a Recommendation is to the most recent version approved by the IALA Council.

In this Standard the word ‘shall’ is used to indicate that a provision is Normative and is to be followed in order to comply with the Standard. The word ‘should’ introduces Informative provisions.

The following Recommendations are **Normative** provisions, and **shall** be observed if compliance with this Standard is claimed.

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| **Scope** | **Number** | **Title** |
| **Visual Aids to Navigation** | R0108 | The Surface Colours used as Visual Signals on Aids to Navigation |
| R0110 | Rhythmic Characters of Lights on Aids to Navigation |
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| R0201 | Marine Signal Lights - Colours |
| R0106 | The Use of Retroreflecting Material on Aids to Navigation Marks Within the IALA Maritime Buoyage System |
| R0104 | Off Station Signals for Major Floating Aids |
| **Range and Performance** | R0202 | Marine Signal Lights - Calculation, Definition and Notation of Luminous Range |
| R0203 | Marine Signal Lights – Terms of Measurement |
| R0204 | Marine Signal Lights – Determination and Calculation of Effective Intensity |
| **Environment, Sustainability & Legacy** | R100? | Environmental Management in the provision of marine Aids to Navigation |

The following Recommendations are **Informative** provisions and **should** be observed if compliance with this Standard is claimed.

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| **Scope** | **Number** | **Title** |
| **Visual Aids to Navigation** |  |  |
| **Range and Performance** |  |  |
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| R0109 | The Calculation of the Range of a Sound Signal |
| **Design, Implementation & Maintenance** | R0126 | Use of the Automatic Identification System (AIS) in Marine Aids to Navigation Service |
| **Floating Aids to navigation** | R0107 | Moorings for Floating Aids to Navigation |
| **Environment, Sustainability & Legacy** | R100? | Conserving the Built Heritage of Lighthouses and other Aids to Navigation |

# SUPPLEMENTARY ELEMENTS

There are no supplementary elements to this Standard.

# ADOPTION OF AND AMENDMENT OF STANDARDS

IALA Standards may be adopted or amended by a majority vote at a General Assembly of national members.

# DOCUMENT HISTORY

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| **Date** | **Amendment Details** | **Approval** |
| 2018-06-01 | First issue | General Assembly Resolution, Incheon, Republic of Korea, May 2018. |