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Standards

Irish Standard
I.S. EN IEC 63132-4:2020

Guidance for installation procedures and tolerances of hydroelectric machines - Part 4: Vertical Kaplan or propeller turbines

I.S. EN IEC 63132-4:2020

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National Foreword

I.S. EN IEC 63132-4:2020 is the adopted Irish version of the European Document EN IEC 63132-4:2020, Guidance for installation procedures and tolerances of hydroelectric machines - Part 4: Vertical Kaplan or propeller turbines

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EN IEC 63132-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2020

ICS 27.140

English Version

Guidance for installation procedures and tolerances of
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turbines
(IEC 63132-4:2020)

Lignes directrices des procédures et tolérances
d'installation des machines hydroélectriques - Partie 4:
Turbine Kaplan ou à hélice verticales
(IEC 63132-4:2020)

Leitfaden für Installations-Prozeduren und -Toleranzen von
hydroelektrischen Maschinen - Teil 4: Vertikale Kaplan-
oder Propellerturbinen
(IEC 63132-4:2020)

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EN IEC 63132-4:2020 (E)

European foreword

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IEC 63132-1	NOTE	Harmonized as EN IEC 63132-1
IEC 63132-2	NOTE	Harmonized as EN IEC 63132-2
IEC 63132-3	NOTE	Harmonized as EN IEC 63132-3



IEC 63132-4

Edition 1.0 2020-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Guidance for installation procedures and tolerances of hydroelectric machines –
Part 4: Vertical Kaplan or propeller turbines**

**Lignes directrices des procédures et tolérances d'installation des machines
hydroélectriques –
Partie 4: Turbines Kaplan ou à hélice verticales**





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IEC 63132-4

Edition 1.0 2020-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Guidance for installation procedures and tolerances of hydroelectric machines –
Part 4: Vertical Kaplan or propeller turbines**

**Lignes directrices des procédures et tolérances d'installation des machines
hydroélectriques –
Partie 4: Turbines Kaplan ou à hélice verticales**

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**GUIDANCE FOR INSTALLATION PROCEDURES AND
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Part 4: Vertical Kaplan or propeller turbines**FOREWORD**

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International Standard IEC 63132-4 has been prepared by IEC technical committee 4: Hydraulic turbines.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
4/383/FDIS	4/393/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 63132 series, published under the general title *Guidance for installation procedures and tolerances of hydroelectric machines*, can be found on the IEC website.

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GUIDANCE FOR INSTALLATION PROCEDURES AND TOLERANCES OF HYDROELECTRIC MACHINES –

Part 4: Vertical Kaplan or propeller turbines

1 Scope

The purpose of this this part of IEC 63132 is to establish, in a general way, suitable procedures and tolerances for the installation of a vertical Kaplan or propeller turbine. This document presents a typical assembly and whenever the word “turbine” is used in this document, it refers to a vertical Kaplan or propeller turbine. There are many possible ways to assemble a unit. The size of the machine, design of the machine, layout of the powerhouse or delivery schedule of the components are some of the elements that could result in additional steps, the elimination of some steps and/or assembly sequences.

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The tolerances in this document have been established upon best practices and experience, although it is recognized that other standards specify different tolerances.

Wherever this document specifies that documents, drawings or information is supplied by a manufacturer (or by manufacturers), each individual manufacturer will furnish the appropriate information for their own supply only.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

4 Installation flowchart

4.1 Turbine embedded parts

Figure 1 shows a generic installation flowchart for vertical Kaplan or propeller turbine embedded parts.

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