

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

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English Version

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

The text of document 4/383/FDIS, future edition 1 of IEC 63132-4, prepared by IEC/TC 4 "Hydraulic turbines" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63132-4:2020.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-03-02
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IEC 63132-1	NOTE	Harmonized as EN IEC 63132-1
IEC 63132-2	NOTE	Harmonized as EN IEC 63132-2
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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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INTERNATIONAL STANDARD

NORME INTERNATIONALE



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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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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.

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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.

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- IEC Electropedia: available at <http://www.electropedia.org/>
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4 Installation flowchart

4.1 Turbine embedded parts

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