



# **CANOE SLALOM GATES HOMOLOGATION MANUAL**

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## I. INTRODUCTION

This manual describes the ICF homologation process concerning the gates for canoe slalom.

The homologation process is conducted by an ICF experts' panel (ICF Technical committee members, ICF staff, external advisors) nominated by the ICF Secretary General.

Homologation represents a "system of evaluation" that is designed to guide the development and ensure high-standard equipment dedicated to canoeing are suitable for ICF competitions and venues. It is a process for certification that provides a forum for constructive discussion between ICF experts and providers. The resulting certification represents an ICF stamp of approval for usage of equipment/facilities specific to the environment intended.

The homologation process takes place in two stages:

- Stage 1: Homologation technical file
- Stage 2: Test session on the samples sent by the providers

## II. INTEREST TO REQUEST AN ICF HOMOLOGATION

For several reasons, the ICF shall regularly pass to some national or international sport stakeholders (Eg. Organising committees for Olympic Games, Continental Games, National Federations) a list of technical products and their recognized providers specific to canoeing.

Through the homologation process the ICF wants to reinforce the quality control of the technical products and create a strong link with the providers.

## III. HOMOLOGATION COST

The manufacturer will provide the needed samples and will pay to the ICF a test fee of 500€.

This fee must be paid to the ICF by the manufacturers before the delivery of homologation results by the ICF.

## IV. KEY DATE FOR 2018 HOMOLOGATION SESSION

9 <sup>th</sup> November 2018	Publication of the 2018 Canoe Slalom Gates homologation manual
1 <sup>st</sup> December 2018	End of stage 1 – technical file and reception of samples
15 <sup>th</sup> January 2019	Communication to the manufacturers of the homologation report by the ICF (if test fee paid to ICF)
31 <sup>th</sup> January 2019	Publication by the ICF of the homologated list of products on his website ( <a href="http://www.canoeicf.com">www.canoeicf.com</a> )

## V. STAGE 1 – HOMOLOGATION TECHNICAL FILE AND SAMPLES TO PROVIDE

The manufacturer shall provide to the ICF the homologation technical file and some samples for the testing phase.

### A. Homologation technical file

File including the following items:

- Short introduction of the company
- General presentation of the proposed gate: history of development of the product, main strengths etc.
- List of materials used in construction of the pole and the crossbar.
- Technical scheme of a pole and the crossbar with including size, weight, fixation system etc.
- If available:
  - Commercial catalog (electronic or online)
  - List of main customers and their technical appreciation of the product.
  - Actual user manual

The Homologation technical documents have to be sent to the ICF headquarters by e-mail ([Simon.toulson@canoeicf.com](mailto:Simon.toulson@canoeicf.com), [cyril.nivel@canoeicf.com](mailto:cyril.nivel@canoeicf.com) and [jmprono@gmail.com](mailto:jmprono@gmail.com))

### B. Samples to provide

The manufacturers must provide the ICF with **3 red** poles, **3 green** poles, **2** crossbars and **2** gate panel numbers. These products must be sent to the ICF prior the indicated date (the delivery address will be confirmed by the ICF on request to [cyril.nivel@canoeicf.com](mailto:cyril.nivel@canoeicf.com)).

## VI. STAGE 2 – TEST SESSION

### A. Principles

This test session will be conducted by the ICF and his nominated experts' panel.

The manufacturers are not able to be present during this test session.

All results will be provided to the manufacturers without public communication.

A session of discussion between the ICF experts' panel and the manufacturer may be requested by both part:

- The ICF during the completion of this phase for additional information.
- The manufacturer after the reception of the homologation report.

### B. Goals

The test session has three main assessment goals:

- Measurement: each pole and each crossbar must comply to the ICF rules (see summary in appendix 1).
- Motion sensibility for a pole (Time to return motionless after an impact)
- Stress test:
  - Paddle (shaft and blade) impact on a pole
  - Mechanical strength of the crossbar

Furthermore, the ICF will assess based on technical information provided, feedback from customers and simulation software:

- Impact of the temperature and the temperature changes on a pole (deformation)
- Long term use on a venue

## VII. CONCLUSION OF THE HOMOLOGATION PROCESS

Following the completion of the two stages, the ICF experts shall deliver a report to the ICF Secretary General. Based on this report and his conclusion, the ICF Secretary General will officially inform the provider of the results of the homologation process after the completion of stage 2.

## APPENDIX 1 – 2019 ICF RULES AND REGULATION FOR CANOE SLALOM GATES

### A. 2019 ICF competition rules for gates

1. The gates consist of two (2) suspended poles painted with green and white rings for downstream gates and red and white rings for upstream gates, with the bottom ring always white, each ring is 20 cm high.
2. A black band of a minimum width of 2 cm and maximum width of 2.5 cm is placed around the base of each pole.
3. The gate numbers will be displayed according to the CSLC template on the white ring, second from the bottom.
4. Event Logos and/or advertising agreed with the CSLC may be displayed on any of the rings above the bottom four rings.
5. The width of a gate is 1.2 meters minimum to 4.0 meters maximum measured between the poles.

*ICF technical recommendation: crossbar width 2m maximum.*

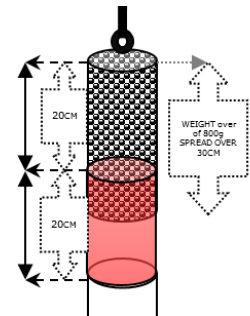
6. Poles must be round and 1.6 meters long by 4.0 to 5.0 cm in diameter, and of sufficient weight that motion caused by wind is not excessive.
7. The height of the poles above the water should be such that it provides fair and reasonable conditions for negotiation whilst simultaneously satisfying the aims of the Course Designers.
8. As an indicator to the Course Designers and Chief Judge the pole height should be approximately 20cm above the surface of the water and should not be set in motion by any surge of water.
9. The pole adjusting system must enable easy adjustment for each pole on every gate.
10. Gates must be numbered in the order of negotiation.
11. The gate number panels must measure 30 cm x 30 cm. The numbers must be inscribed on both sides of the panels using written in black on a yellow or white background. Each number and letter must measure 20 cm in height and 2 cm in thickness. On the side of the panel opposite the direction of correct negotiation, there is a diagonal red line from the bottom left to the top right.
12. At each Transmission position, the number sequence of the gates being judged must be clearly displayed.

## B. Gate's requirements for manufacturers

### FOP 2. Gate System

Gates must be constructed to conform to the requirements as described in the ICF Canoe Slalom Rule 27. The top 30cm of the gate pole should be internally weighted as per the diagram, to reduce the pendulum effect.

There must be an easily accessible and changeable regulation system which allows for the regulation of each pole individually.



## C. Other requirements

1. Maximum weight of one pole: 2,2 Kg with a pole length of 1.6 meters
2. Minimum weight of one pole: 800g