



Concrete Canoe Race 2025
KOERS

Construction regulations

ConcreteCanoeRace 2025

1. The canoe must be hollow on the inside. This means there must be enough space to fit in and propel the canoe with two persons properly. Only single-leaf paddles, which are not attached to the boat, may be used for this purpose. Soft mats are allowed to protect the knees and feet but not to spread the load on the boat.
2. The dimensions of the canoe must meet the following requirements:
 - Minimum length: 4.0 m
 - Maximum length: 6.0 m
 - Maximum width: 1.0 m
 - Maximum height: 1.0 m
3. The canoe must be made of concrete. The strength of the canoe must come from the profiling, reinforcement, and/or the composition of the concrete. Reinforcing the canoe with anything other than concrete or reinforcement incorporated into the concrete is not permitted.
4. Both natural and synthetic and both impermeable and porous aggregates may be used.
 - The maximum aggregate diameter of one aggregate is 5,6 mm;
 - The binder must be cement according to EN 197;
 - The additives must not exceed 25% of the weight of the cement mix;
5. The reinforcement may consist of wire and grid elements. The reinforcement cannot contribute to the canoe's waterproofness or buoyancy. The buoyancy of the canoe can be created by concrete elements or by the complete concrete canoe only.
6. A buoy with 5 meters of rope must be attached to the canoe to indicate the location of the canoe when sinking. The rope must withstand a tensile force of at least 50 kilograms, and the buoy must guarantee a buoyancy of 2 kilograms. If not, the organization will take measures.
7. A construction report (up to 10 pages A4) must be submitted by e-mail (secretary-ccr@koerstue.nl) at the latest four weeks before the event. The report should, at the bare minimum, include the following subjects:
 - Design: idea, name of the canoe, and people who contributed
 - Explanations of the structure
 - List of used materials, including the mixing ratio
 - The fabrication process of the canoe
 - Dimensions, weight, and buoyancy
 - Sustainability of the materials used
8. Sustainability and innovation are aspects that can result in bonus points for a team in the sustainability or innovation competition. When special materials or techniques are used, mention these in the construction report of the canoe.
9. Regarding the environment, no material can come loose from the canoe when exposed to water. This will be tested during inspection by applying a wet sponge to the canoe.
10. The jury assesses the construction report. If the construction report does not meet the requirements or contains defects or ambiguities, the jury can demand the construction report to be improved before a certain deadline. Failure to submit the construction report will result in exclusion of prizes.
11. When the canoe does not meet the requirements or does not conform to the construction report, the jury may impose disqualification, a reduction of points, or a time penalty. Failure to submit the construction report results in the exclusion of prizes. This will be announced to the relevant team before the start of the race.
12. While transporting the canoe, bystanders must wear safety shoes to prevent injuries. Not following this rule is at your own risk.