

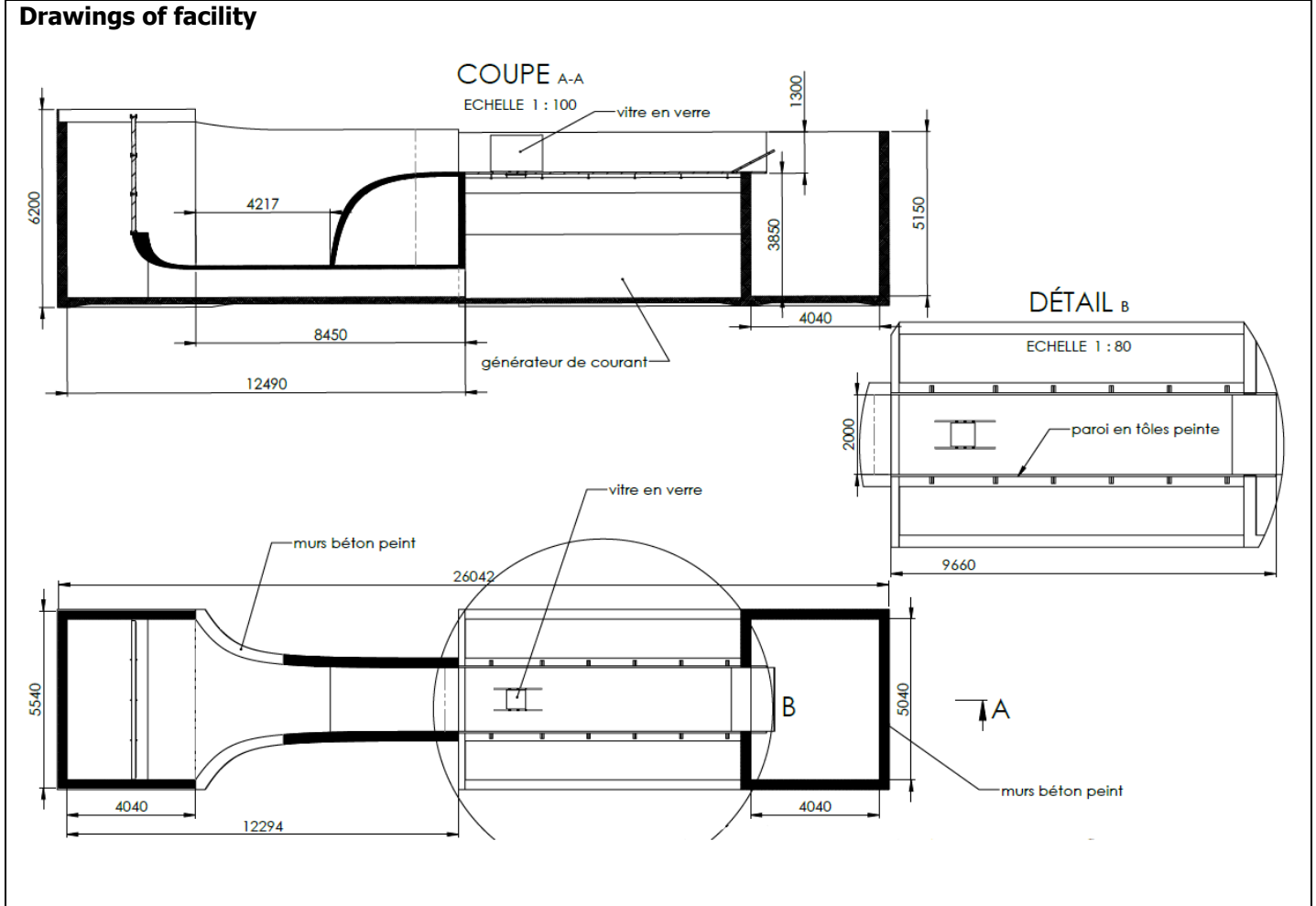
<b>Name of organization</b> Ecole Centrale de Nantes	<b>Year of information updating</b> 2022
<b>Year established</b> 1917	<b>Year of joining the ITTC</b>
<b>Address</b> 1 rue de la Noë 44321 Nantes cedex 3 -France	<b>Status in the ITTC</b> Member
<b>Contact details</b> (phone, fax, e-mail) Facility manager : Jérémy OHANA ( <a href="mailto:hydro-facilities@ec-nantes.fr">hydro-facilities@ec-nantes.fr</a> )	<b>Website</b> <a href="https://lheea.ec-nantes.fr/test-facilities/ocean-tanks/recirculating-canal">https://lheea.ec-nantes.fr/test-facilities/ocean-tanks/recirculating-canal</a>

<b>Type of facility</b> Recirculating canal	<b>Year constructed/upgraded</b> Built 1977
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<b>Name of facility</b> CC – Canal de Circulation	<b>Location</b> (if different from the above address)
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**Main characteristics** (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)

The basin is used for research, education and commercial experiments.  
Main dimensions of the working section: 10 x 2 x 1.1 [m]



**Detailed characteristics** (carriages, wave/current/wind generators, instrumentations, etc.)

Current generator

Maximum speed: 2 [m/s]

Instrumentation:

Several dynamometers (3 components, 6 components)

Resistive, capacitive and ultrasonic waveprobes

Qualisys Motion Capture (both above and below water)

Remotely operated HD cameras (both above and below water)

PIV

Open water rig

Other:

Overhead cranes covering the central area of the tank, SWL 2 tonnes

**Applications** (Tests performed)

Open water propeller tests

Ship propulsion

Tidal turbines

Appendages performance and characterisation

**Published description** (Publications on this facility)