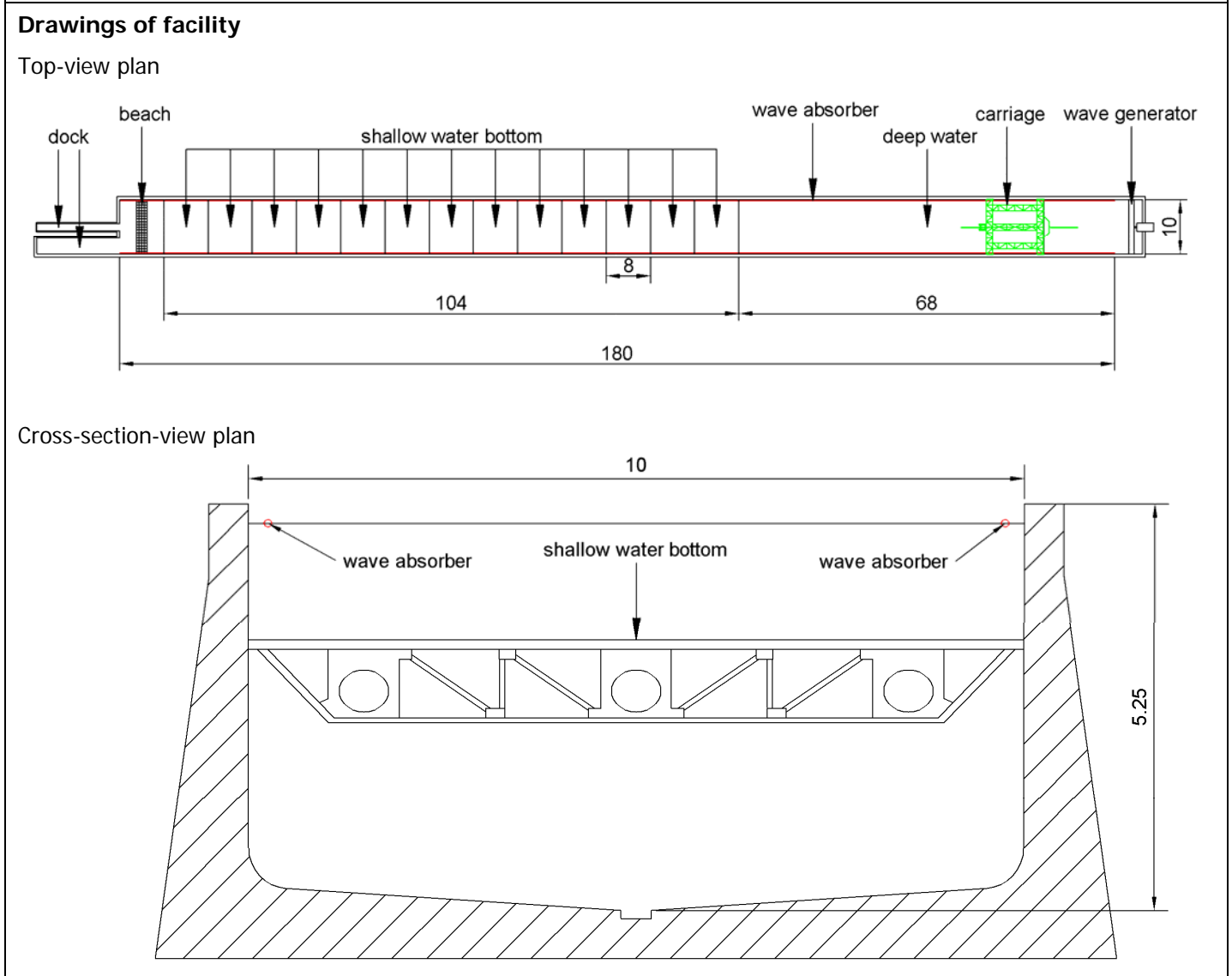


Name of organization Schiffbautechnische Versuchsanstalt in Wien GmbH – Vienna Model Basin Ltd	Year of information updating 2016
Year established 1912	Year of joining the ITTC 1932
Address Brigittenauerlande 256, A-1200 Vienna, Austria	Status in the ITTC Advisory Council Member Advisory Council Chairman
Contact details (phone, fax, e-mail) Phone: +43 1 330 37 32 Fax: +43 1 332 93 85 E-mail: sva@sva.at	Website http://www.sva.at

Type of facility Towing Tank	Year constructed/upgraded 1916 / 2003 / 2016
Name of facility Towing Tank	Location (if different from the above address)

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
Dimension of tank: 180 m x 10 m x 5 m [L x B x D], wave absorbers along the tank walls, 104 m shallow water section, duplex-flap type wave generator, two docks



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

Carriage
Description of carriage: motor driven
Type of drive system and total power: DC motors, 4 x 35.5 kW
Maximum carriage speed: 7 m/s

Wave generator Kempf & Remmers W53

Wave generator capability: regular and irregular, wave length 0.35 m – 20.0 m, wave height up to 0.6 m

Wave generator type and extent: duplex-flap type, 10 m wide

Beach type and length: floating damper pontoons, 10 m x 2 m, adjustable slope

Wave measurement: capacitive wave probes at the tank walls and on the carriage

Instrumentation

load cells, six-component load cells, electronic dynamometers, 8 channel digital measuring amplifiers, fiber optic gyroscopes, optical motion tracking system, accelerometers, pressure pickups, potentiometers, GPS gyroscopes, draw wire transducers, stepper motors, servo motors, various stock azipods, Z-drives and stock nozzles, 800 stock propellers, stock waterjets, photo and video cameras

Model size range

Ship length from 1 to 12 m

Applications (Tests performed)

Resistance and self-propulsion tests in calm water and in waves, self-propulsion tests with waterjets, submarine/underwater vehicle tests, propeller open water tests, EEDI tests, paint flow/tuft tests, flow visualization and 3D wake surveys, bubble sweep down tests, hydrodynamic forces, wave induced motion and loads on ships and floating structures, vortex induced motion tests, safe-return-to-port tests, assessment of the weather criterion, shallow water tests, manoeuvring tests (zig-zag, turning circles, Dieudone' spiral, pull out, course stability), escort tests (determination of braking/steering forces), intact and damage stability tests (Stockholm agreement tests), open top container ship tests, swimming pool tests, assessment of anti-rolling tanks

Published description (Publications on this facility)

STG-Jahrbuch 65., 1971

Schiffbautechnische Forschung in Deutschland Gestern und Heute, Schiff&Hafen, Band 4, 2003