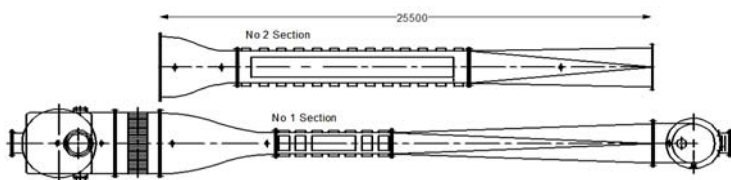
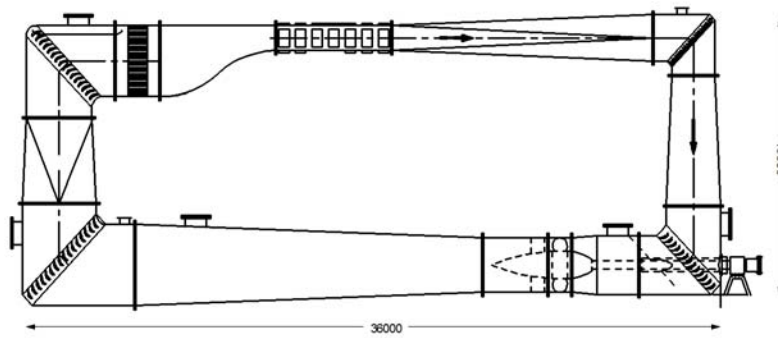


Name of organization SAMSUNG SHIP MODEL BASIN (SSMB)		Year of information updating 2015
Year established 1996		Year of joining the ITTC 1996
Address 217 MUNJI-RO, YUSEONG-GU, DAEJEON 34051, KOREA		Status in the ITTC AC Member
Contact details (phone, fax, e-mail) TEL : +82-42-865-4100 FAX : +82-55-630-7670 E-mail : ssmb@samsung.com		Website
Type of facility CAVITATION TUNNEL	Year constructed/upgraded 1996	
Name of facility	Location (if different from the above address)	
Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) L x D = 36m x 13m		
Drawings of facility		
Top-view plan		
		
Corss-section-view plan		
		
Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)		
<ul style="list-style-type: none"> - Description: Vertical, plan, closed recirculation water tunnel - Drive system and power: 7-blades axial flow impeller driven by electric motor(2,600kW, 100RPM) - Maximum flow speed: 18 m/s for No.1 test section (1.2m x 1.2m x 6m) 12 m/s for No.2 test section(3.0m x 1.4m x 12m) - Pressure range: 0.1~4.0bar - Cavitation number: $\sigma \geq 0.063$ - Instrument: Propeller dynamometer, Contra-rotating dynamometer, Force balancer, PIV system, High speed camera, Acoustic measuring system - Model size: Propeller 150~600mm diameter(normally 250mm), Ship 8~10m length 		
Applications (Tests performed)		
<ul style="list-style-type: none"> - Cavitation: Cavitation observation(Propeller, Rudder), Pressure fluctuation measurement, Cavitation inception test, Propeller erosion test, Underwater noise test - Visualization: Wake measurement by PIV/Pitot tube, Paint test, Tuft test 		
Published description (Publications on this facility)		