

# OEM AMPHIBIOUS SYSTEM

**SEALEGS AMPHIBIOUS  
ENABLEMENT KIT**

**FOR BOATS 4.5m-7.5m  
TECHNICAL SPECIFICATIONS**



AMPHIBIOUS BY  

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**SEALEGS®**

<b>On-land Capability</b>	
Max Displacement (Full Payload)*	2500kg (5512lbs)
Top Speed	Up to 7.5kph (5mph) – terrain dependent
Run Time per hour	30 min continuous, or until over temperature alarm(s) activate
Maximum Incline	11 degrees (20% gradient) up or down. Avoid transversing an incline.
Maximum Traversable Obstacle(s)	150mm obstacle(s) @ 4kph (2.5mph)
Raising and Lowering	Capable of raising and lowering craft at full payload*
Drive	Full-time All Wheel Drive, with momentary diff lock
Drive Requirements	All legs must be fully down during any driving
Normal Ambient Operating Temperature	0°C – 40°C (32°F – 104°F)
<b>Systems</b>	
Power	Inboard petrol engine, Honda - 24HP (18kW) 4-stroke, air cooled
Brakes	Hydrostatic braking with Automatic [park] Braking System Stop button brake override function for emergency use only
Steering	Power assisted hydraulic steering 5 position adjustable helm unit
Tyres	25" x 12" all terrain 6-ply tyres mounted on 12" alloy rims 20 PSI Operating pressure. 18 PSI Minimum - 22 PSI Maximum.
System Weight	525kg
<b>Fuel</b>	
Fuel Type	Unleaded Petrol (min 86 Octane rating)
Fuel Consumption (Maximum)	7 L/hr
<b>Servicing</b>	
Service Intervals (whichever is first)	Annually, every 50 land hours or every 100 water hours Initial service at 1 year from delivery or 20 land hours Additional hose replacement service every 4 years
Service Contact	Craft supplier is to be point of contact for all after sales or warranty/services enquiries
<b>On Water Restrictions</b>	
With Legs Not Fully Retracted	9kph (6mph/5 knots)
Wave Height up to 0.5m	75kph (47mph/40 knots)
Wave Height from 0.5m to 1.0m	55kph (35mph/30 knots)
Wave Height greater than 1.0m	Reduce speed to suit conditions



Sealegs Equipped Craft's maximum payload capacity must not be exceeded on land or when the Sealegs system is in use. Exceeding this voids warranty and dramatically reduces service life / increases chance of a failure.

\*Maximum displacement is the full payload of the craft including but not limited to;

Sealegs System, in/outboard(s), fuel, passengers, loose and fixed gear/equipment, water/liquid storage etc

# Sealegs System 60 Requirements

<b>Equipment Requirements</b>	
Steering Helm, hoses and rams	Supplied 28cc (1.7 ci) helm unit 147.5cc (9 ci), Symmetrical Steering rams (Front & Rear)
Steering Wheel	Not supplied Steering wheel required with a maximum diameter 508mm (20"), to suit a Seastar Helm (with 3/4" tapered shaft and key).
Hydraulic requirements	Internal Hydraulic & Steering hoses not supplied (craft specific)
Labelling requirements	Maximum capacity label not supplied (craft specific)
Engine requirements	Throttle cable from controller to inboard not supplied (craft specific) Teleflex Morse Control Cable type 33c required of appropriate length.
Fitting Materials	Corrosion resistant materials external to craft structure Corrosion protected or resistant materials internal to craft structure
<b>Fuel System Requirements</b>	
Fuel Tank Pickup requirements	Max height of 0.5m from bottom of pickup suction to bottom of engine mount plate
Fuel Supply requirements	Continuous fuel supply Connection to included fuel filter inlet
Fuel Hose requirements	3/8" I.D. A1 rated fuel hose Max run length from fuel tank pickup to OEM filter inlet; 2.0m
<b>12V Electrical Requirements</b>	
Battery	Not supplied Minimum 300CCA 12V battery
Voltage	12V polarity sensitive (not reverse polarity protected)
Maximum Current Draw	<ul style="list-style-type: none"> <li>• 45A Nominal</li> <li>• 100A Peak</li> </ul>
Sealegs electrical supply requirements	<ul style="list-style-type: none"> <li>• Shall have a minimum Cross Sectional Area as below</li> <li>• Connection to source shall be circuit protected as below</li> <li>• Shall be connected to the battery via a suitably rated isolator switch</li> <li>• Loom Enclosure (80A/16mm<sup>2</sup>)</li> <li>• Inboard Engine (150A/35mm<sup>2</sup>)</li> <li>• Power Steering Pump (50A/6mm<sup>2</sup>)</li> </ul>
Backbone Length	6m backbone cable from control to inboard systems supplied
Charging Output	50A nominal @ 14.4 V, Maximum current output 60A
<b>Servicing</b>	
Inboard Engine Oil Type	1.5L (1.7L including oil filter) SAE 15W-40 4-Stroke Engine oil. API Service category of SJ (or later)
Hydraulic Oil Type	29L (32.5L including hoses) Elf: ELFOLNA DS 46 (or equivalent)
Steering Oil Type	1.9L (including hoses) Elf: SPINELF10 (or equivalent)
Wheel Nut Torque	75 Nm

# Sealegs System 60 Integration

<b>Craft Requirements</b>		
Component Library	Component Mounting Detail and Envelopes provided	
Hull Structure Applied Loads	Hull structure supporting the Sealegs system shall be designed such that a suitable safety factor to yield is utilised.	
Required Horizontal Centre of Gravity	40% of wheelbase (+/- 5%) Measured centre to centre, forward from rear wheels centre	
Stability and Structural Tests	Shall pass Sealegs Stability and Structural Tests.	
Recommended Minimum Ground Clearance (whichever is greater)	450mm (1' 6") OR 8% of wheelbase (centre to centre)	
Minimum Rear Wheel Track (centre to centre) (whichever is greater)	1.9m (6' 3") OR 0.3m (1') less than maximum beam	
Weights (Kg)	Front assembly	88
	Rear assemblies (each)	78.5
	Engine/hydraulic assembly	205
	Services/Controls/Electrical	75
	Total system	525
<b>Craft Recommendations</b>		
Operational Tests	Recommend completing Sealegs Operational Reference Tests	
Outboard/Sternleg Skeg Clearance (All legs fully down)	75mm from ground (Outboard/Sternleg fully tilted down)	
System Component Height Above Water	Shall not touch the water while craft is underway	
<b>Craft Assembly</b>		
Assembly instructions	Supplied There shall be no variation to Sealegs instructions without prior written approval	
Components	There shall be no modification to Sealegs components without prior written approval	

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