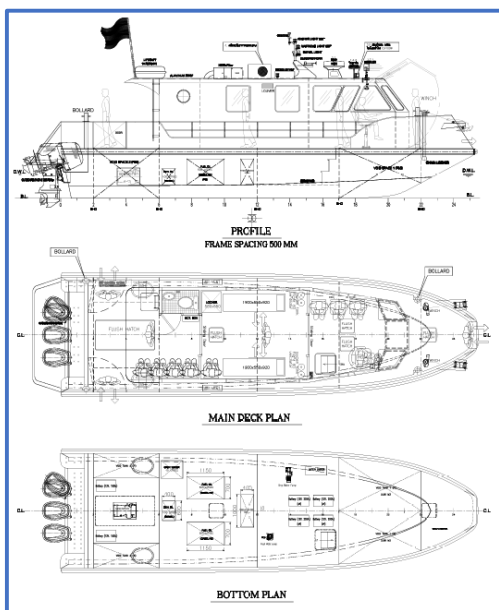


10<sup>th</sup> May 2025

### **MARINE NEWS NO. 3 – Inclining Experiment and Sea Trial of an Ambulance Boat**

An ambulance boat was designed by Navis Consult L.P. for A And Marine (Thai) Co., Ltd. for emergency services in Map Ta Phut Industrial Port, Rayong Thailand. After launching on 21 April 2025, the boat has undergone an inclining experiment to find the exact position of the center of gravity which is useful for checking the stability of the boat during various loading / operation conditions. Afterwards, sea trial was carried out to check the speed and seaworthiness of the boat. The results of the experiment and sea trial were found to be satisfactory with 30- 32 knots top speed, and in accordance with the related rules and safety regulations.



SUMMARY OF WEIGHTS AND CENTER OF GRAVITY (ADJUSTED AFTER INCLINING EXPERIMENT)							
WEIGHT ITEM	NAME	WEIGHT (TON)	LONG. CG (FROM AFT.)	VERT. CG (FROM B.L.)	LONG. M (T-M)	VERT. M (T-M)	FREE SURFACE (T-M)
1	Displacement during test	13.67	4.51	1.045	61.65	14.28	0.088
2	Subtract test weights	0.400	1.40	2.10	0.56	0.84	0
3	Subtract equipment weights	0.045	7.23	2.03	0.32	0.09	0
4	Subtract people onboard	0.340	1.62	2.52	0.55	0.85	0
5	Subtract Benzine	0.680	4.25	0.76	2.89	0.51	0.044
6	Subtract diesel oil	0.085	3.14	0.65	0.26	0.05	0.006
7	Subtract fresh water	0.300	5.52	0.76	1.66	0.23	0.038
	<b>TOTAL LIGHTSHIP WEIGHT</b>	<b>11.820</b>	<b>4.687</b>	<b>0.99</b>	<b>55.41</b>	<b>11.71</b>	<b>0.00</b>

Technical drawing of the ship's hull and superstructure, showing various components like the mast, funnel, and deck layout.

Technical drawing of the hull of the 'Marek' motorboat, showing the layout of the hull, engine, and various components. The drawing includes labels for various parts and dimensions.

SHIP STABILITY BOOKLET

**(FINAL VERSION)**

[illegible]

Figure 10 is a graph showing the relationship between the normalized vertical displacement ( $z/B$ ) and the normalized horizontal distance ( $x/B$ ) for a 2.3.3.3. Passenger-carrying vehicle. The y-axis ranges from -0.5 to 0.7, and the x-axis ranges from 0 to 90. A solid black curve represents the 'Wheel heading aim', peaking at  $z/B = 0.42$  at  $x/B = 33.6$ . A dashed red line represents the '5.6.1. Passenger-GM with symmetrical heading-GM at 0.0 deg = 0.951 m', peaking at  $z/B = 0.65$  at  $x/B = 33.6$ . A horizontal purple line at  $z/B = 0$  represents the '5.2.3.3. Passenger-carrying heading heading = 0.0 deg = 0.951 m'.

A white and red patrol boat, labeled 'POLICE' and '17', is shown moving across the water, leaving a wake. The boat is white with red stripes and has 'POLICE' and '17' written on its side. It is moving towards the right, leaving a white wake behind it. The water is dark blue-grey. The boat has a cabin with windows and a small mast with flags. There is a red lifebuoy on the side. The boat is a small, fast-moving vessel, likely a patrol or ferry. The image is a photograph of a physical print, with a white border around the photo.

