

## Calculation of Scale Weight of "Atlantic" Tugboat Kit, 1:50

Kit was not based of a specifc vessel.

Most similar offshore tug I could find is:

Degirmendere A674

Built in 1974 in Germany for the French Navy

Sister ships Malabar A664 and Tenace A669

Degirmendere was transferred to the Turkish Navy in 1999



	Specs on Actual Boat, ft	Meas. Of Atlantic Kit, in	Scale Factor
Length Overall	167.3	41.73	48.11
Beam	37.7	9.84	45.98
Draft	18.7	4.77	
		Draft Calc from Actual Boat Divided by Scale Factor	

Displacement, lbs	3,174,080		
		Average Scale Factor	47.04

### Calculated Scale Weight of Finished Kit Including Balast

Displ of Actual Boat Divided by the Cube of Scale Factor, lbs

**30.49                  pounds**

### Calculation of Hull Speed:

Hull Speed in Knots = 1.34 X Square Root of LWL in feet  
Waterline Length = +/- 37 inches

Hull Speed, Knots                      **2.35**  
Hull Speed, feet/sec                    **3.97**