

Design hydrostatics report.

Designer

Created by

Comment

Filename 123.fbm

Design length	105.00 (m)	Midship location	52.500 (m)
Length over all	105.00 (m)	Relative water density	1.025
Design beam	13.230 (m)	Mean shell thickness	0.0000 (m)
Maximum beam	13.500 (m)	Appendage coefficient	1.0000
Design draft	3.500 (m)		

Volume properties		Waterplane properties	
Moulded volume	0.000 (m ³)	Length on waterline	102.52 (m)
Total displaced volume	0.000 (m ³)	Beam on waterline	13.441 (m)
Displacement	0.000 (tonnes)	Entrance angle	0.000 (Degr.)
Block coefficient	0.0000	Waterplane area	0.000 (m ²)
Prismatic coefficient	0.0000	Waterplane coefficient	0.0000
Vert. prismatic coefficient	0.0000	Waterplane center of floatation	0.000 (m)
Wetted surface area	1660.4 (m ²)	Transverse moment of inertia	0.000 (m ⁴)
Longitudinal center of buoyancy	0.000 (m)	Longitudinal moment of inertia	0.000 (m ⁴)
Longitudinal center of buoyancy	0.000 %		
Vertical center of buoyancy	0.000 (m)		

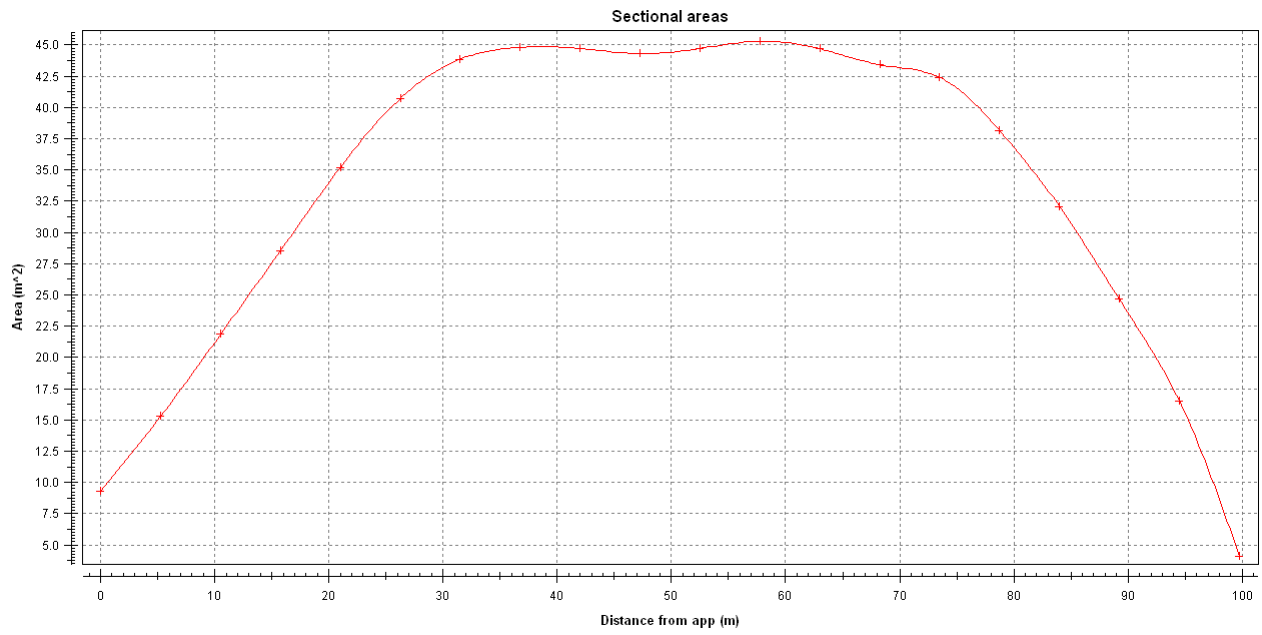
Midship properties		Initial stability	
Midship section area	0.000 (m ²)	Transverse metacentric height	0.000 (m)
Midship coefficient	0.0000	Longitudinal metacentric height	0.000 (m)

Lateral plane	
Lateral area	326.89 (m ²)
Longitudinal center of effort	55.012 (m)
Vertical center of effort	1.862 (m)

The following layer properties are calculated for both sides of the ship

Layer	Area (m ²)	Thickness	Weight (tonnes)	VCG (m)	LCG (m)	TCG (m)
Layer 0	2484.4	0.000	0.000	2.470	50.472	0.000 (CL)

Sectional areas									
Location (m)	Area (m ²)	Location (m)	Area (m ²)	Location (m)	Area (m ²)	Location (m)	Area (m ²)	Location (m)	Area (m ²)
0.000	9.310	21.000	35.211	42.000	44.720	63.000	44.705	84.000	32.071
5.250	15.282	26.250	40.720	47.250	44.294	68.250	43.417	89.250	24.657
10.500	21.842	31.500	43.868	52.500	44.725	73.500	42.392	94.500	16.497
15.750	28.523	36.750	44.809	57.750	45.294	78.750	38.142	99.750	4.065



NOTE 1: Draft (and all other vertical heights) is measured above base Z=0.00!

NOTE 2: All calculated coefficients based on project length, draft and beam.