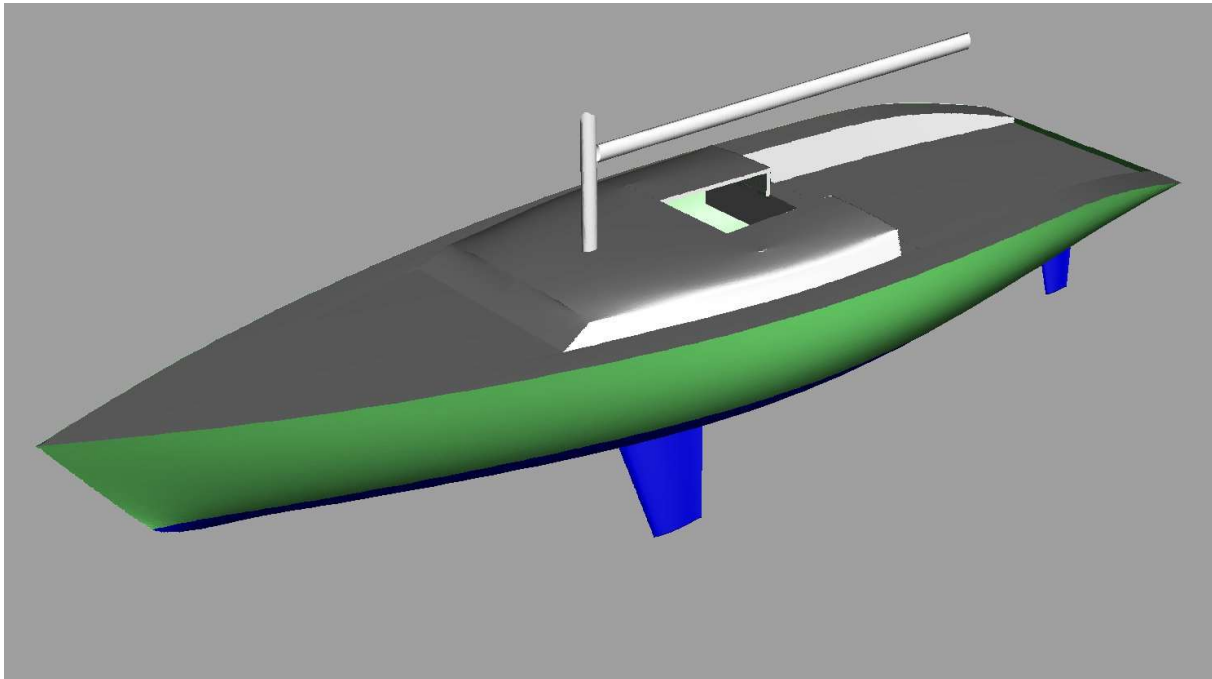


50 feet Admirals Cupper

Project : 50 feet Admirals Cupper

Designer : Delta Consultants/P,Visser



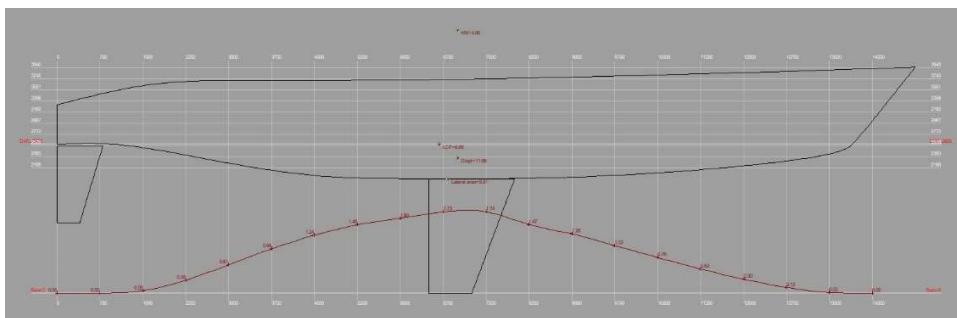
Length over all : 15.000 m
Beam over all : 4.449 m
Draft : 2.600 m
Midship location : 6.000 m
Water density : 1.025 t/m³
Appendage coefficient : 1.0000

Volume properties:

Displaced volume : 11.375 m³
Displacement : 11.659 ton
Total length of submerged body : 13.897 m
Total beam of submerged body : 3.704 m
Block coefficient : 0.0850
Prismatic coefficient : 0.5117
Vert. prismatic coefficient : 0.1359
Wetted surface area : 41.697 m²
Longitudinal center of buoyancy : 7.006 m
Longitudinal center of buoyancy : 0.418 %
Transverse center of buoyancy : 0.000 m

50 feet Admirals Cupper

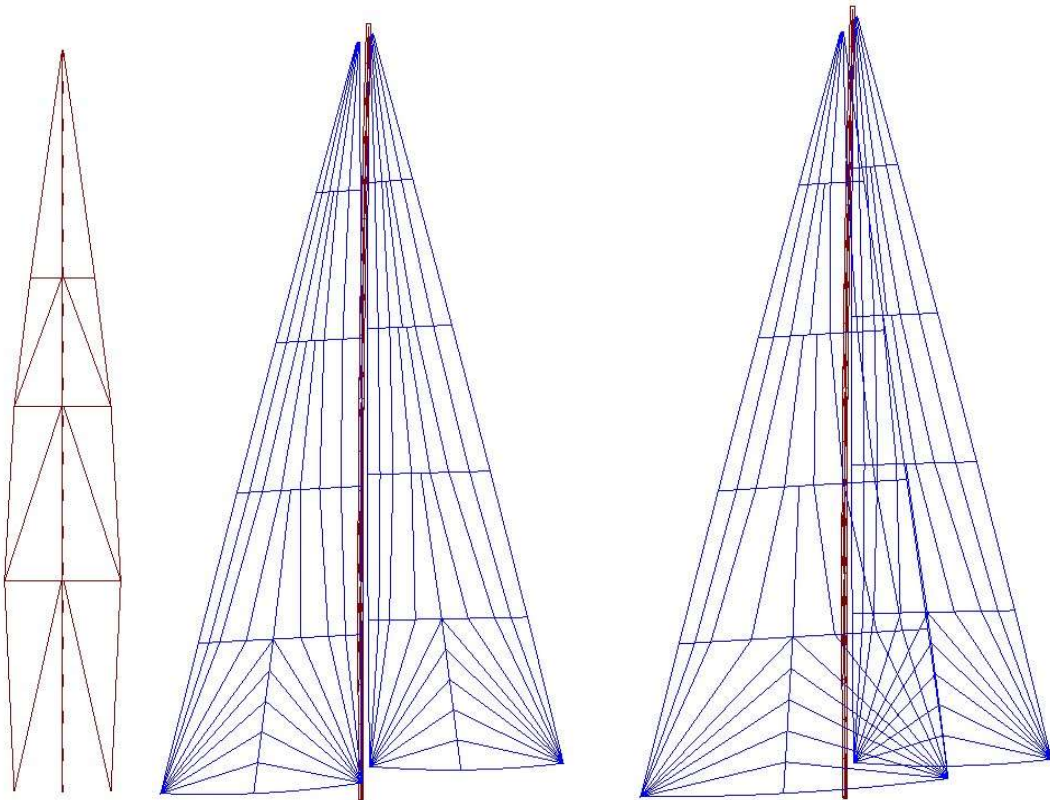
Vertical center of buoyancy	:	2.365 m
Midship properties:		
Midship section area	:	1.600 m ²
Midship coefficient	:	0.1661
Waterplane properties:		
Length on waterline	:	13.897 m
Beam on waterline	:	3.704 m
Waterplane area	:	32.183 m ²
Waterplane coefficient	:	0.6252
Waterplane center of floatation	:	6.681 m
Y coordinate of DWL area CoG	:	0.000 m
Half entrance angle of DWL	:	15.219 degr
Transverse moment of inertia	:	25.462 m ⁴
Longitudinal moment of inertia	:	275.58 m ⁴
Initial stability:		
Vertical of transverse metacenter	:	4.604 m
Tranverse metacentric radius	:	2.238 m
Longitudinal transverse metacenter	:	26.592 m
Longitudinal metacentric radius	:	24.226 m
Lateral plane:		
Lateral area	:	8.510 m ²
Longitudinal center of effort	:	6.829 m
Vertical center of effort	:	1.995 m
Hull characteristics above waterline:		
Lateral wind area	:	17.593 m ²
Z coordinate of wind area CoG above DWL	:	0.637 m
Distance from bow to wind area CoG	:	6.196 m



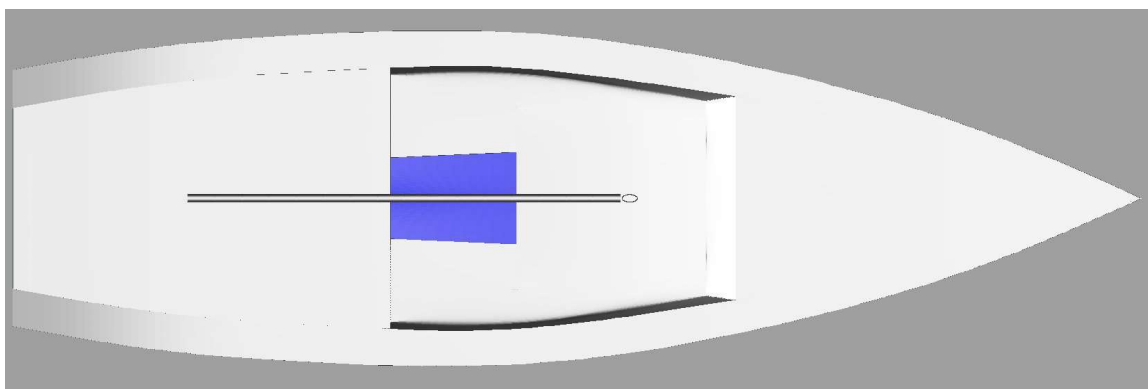
50 feet Admirals Cupper

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

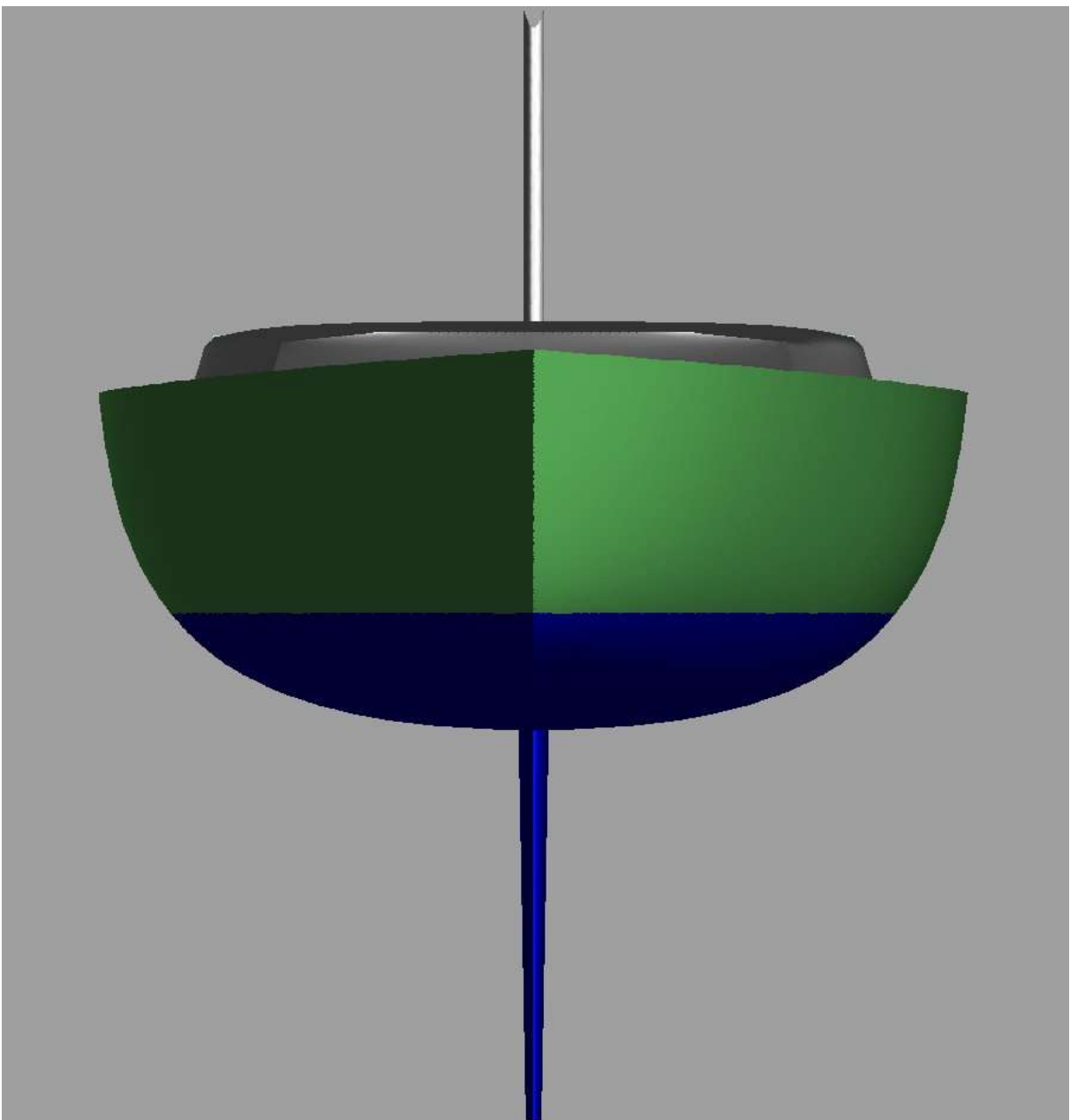
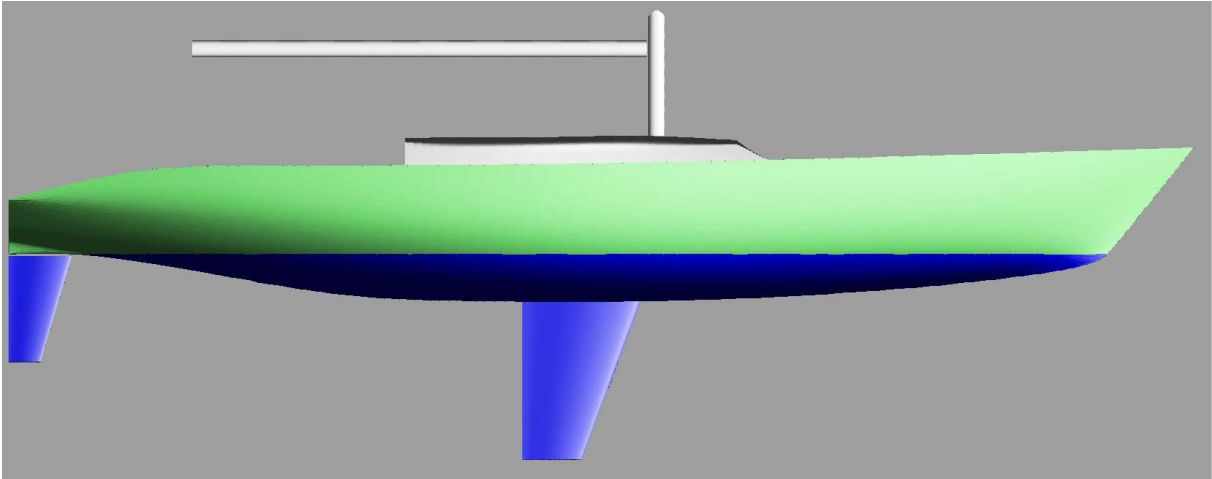
Layer	Area	Thickness	Weight	COG X	COG Y	COG Z
	m ²	mm	tonnes	m	m	m
hull	77.822	80.000	5.292	6.790	0.000	2.739
Trapezoidal keel NACA63	4.722		5.000	7.095	0.000	1.129
Trapezoidal rudder NACA	1.666		0.050	0.316	0.000	1.987
deck	35.195	40.000	1.197	7.977	0.000	3.876
Total	119.41		11.539	7.009	0.000	2.949



Main 68m² High aspect 71m² Genua maximum 104m²



50 feet Admirals Cupper



50 feet Admirals Cupper

