

Project : ident:RG\_Finn modif 1,2kg - 2  
Designer : gegen RG\_Finn straak: unterhalb +0,500 Yx1,15;; T>0,305;; Cp>5620;; CoB nach hinten  
;; Hx1,06557  
Created by : ex Finn straak03re;; ex RG\_Finnskaliert  
Comment : skaliert: Lx1,4444 Bx1,4666 Hx1,4666  
Filename : RG\_Finn 1200 .fbm

Design length : 6.550 m  
Length over all : 6.550 m  
Design beam : 2.200 m  
Beam over all : 2.197 m  
Design draft : 0.325 m  
Midship location : 3.030 m  
Water density : 1.000 t/m^3  
Appendage coefficient : 1.0000

Volume properties:  
Displaced volume : 1.201 m^3  
Displacement : 1.201 tonnes  
Total length of submerged body : 6.373 m  
Total beam of submerged body : 1.863 m  
Block coefficient : 0.3113  
Prismatic coefficient : 0.5578  
Vert. prismatic coefficient : 0.4813  
Wetted surface area : 8.502 m^2  
Longitudinal center of buoyancy : 3.131 m  
Longitudinal center of buoyancy : -1.222 %  
Transverse center of buoyancy : 0.000 m  
Vertical center of buoyancy : 0.225 m

Midship properties:  
Midship section area : 0.338 m^2  
Midship coefficient : 0.5581

Waterplane properties:  
Length on waterline : 6.373 m  
Beam on waterline : 1.863 m  
Waterplane area : 7.680 m^2  
Waterplane coefficient : 0.6469  
Waterplane center of floatation : 2.840 m  
Y coordinate of DWL area CoG : 0.000 m  
Half entrance angle of DWL : 18.047 degr  
Transverse moment of inertia : 1.505 m^4  
Longitudinal moment of inertia : 15.359 m^4

Initial stability:  
Vertical of transverse metacenter : 1.478 m  
Transverse metacentric radius : 1.253 m  
Longitudinal transverse metacenter : 13.010 m  
Longitudinal metacentric radius : 12.785 m

Lateral plane:  
Lateral area : 1.454 m^2  
Longitudinal center of effort : 3.621 m  
Vertical center of effort : 0.193 m

Hull characteristics above waterline:  
Lateral wind area : 4.974 m^2  
Z coordinate of wind area CoG : 0.709 m  
X coordinate of wind area CoG : 3.250 m  
Distance from wind area CoG to DWL : 0.384 m  
Distance from bow (FP) to wind area CoG : 3.300 m  
Minimal board height over DWL : 0.486 m  
Minimal board height over DWL : 7.425 %Lmax

Stability characteristics:  
Test stability coefficient : 3.695 if >= 0,8 then OK

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

Layer	Area m^2	Thickness mm	Weight tonnes	COG X m	COG Y m	COG Z m
Layer 0	17.830	0.000	0.000	3.084	0.000	0.397

Attention: Weight of a ship and displacement are difference more then 10% !

Sectional areas:

Location m	Area m^2
0.022	0.000
0.325	0.014

0.650	0.056
0.975	0.113
1.300	0.173
1.625	0.231
1.950	0.278
2.275	0.310
2.600	0.329
2.925	0.337
3.250	0.334
3.575	0.319
3.900	0.292
4.225	0.257
4.550	0.216
4.875	0.172
5.200	0.128
5.525	0.085
5.850	0.045
6.175	0.012
6.395	0.000

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NOTE 1: Draft (and all other vertical heights) is measured from point of the hull Z=0.  
NOTE 2: All calculated coefficients based on actual dimensions of submerged body.