



## APPENDIX C – STABILITY CALCULATIONS

LOADING CONDITIONS	
Condition No.	Description
1	Light ship
2	Fishermen uniformly distributed
3	Fishermen placed in starboard side
4	Fishermen placed aft
5	Fishermen uniformly distributed – 0,1 t water in «cargo space»
6	Fishermen uniformly distributed – 0,2 t water in «cargo space»
7	Fishermen uniformly distributed – 0,3 t water in «cargo space»
8	Fishermen uniformly distributed – 0,4 t water in «cargo space»
9	Fishermen uniformly distributed – 0,5 t water in «cargo space»
10	Fishermen uniformly distributed – 0,1 t water below innerliner
11	Fishermen uniformly distributed – 0,2 t water below innerliner
12	Fishermen uniformly distributed – 0,3 t water below innerliner
13	Fishermen uniformly distributed – 0,4 t water below innerliner
14	Fishermen uniformly distributed – 0,5 t water below innerliner
15	Fishermen uniformly distributed – 0,6 t water below innerliner
16	Fishermen uniformly distributed – 0,7 t water below innerliner
17	Fishermen uniformly distributed – 0,8 t water below innerliner
18	Fishermen uniformly distributed – 0,9 t water below innerliner
19	Fishermen uniformly distributed – 1,0 t water below innerliner
20	Fishermen uniformly distributed – 1,5 t water below innerliner
22	Limited load – 6 fishermen uniformly distributed
23	Limited load – 6 fishermen placed in starboard side
24	Limited load – 5 fishermen placed in starboard side
25	Limited load – 6 fishermen placed aft
26	Limited load – 6 fishermen uniformly distributed – 0,1 t water below innerliner
27	Limited load – 6 fishermen uniformly distributed – 0,2 t water below innerliner
28	Limited load – 6 fishermen uniformly distributed – 0,3 t water below innerliner
29	Limited load – 6 fishermen uniformly distributed – 0,4 t water below innerliner
30	Limited load – 6 fishermen uniformly distributed – 0,5 t water below innerliner
31	Limited load – 6 fishermen uniformly distributed – 0,6 t water below innerliner
32	Limited load – 6 fishermen uniformly distributed – 0,7 t water below innerliner
33	Limited load – 6 fishermen uniformly distributed – 0,8 t water below innerliner
34	Limited load – 6 fishermen uniformly distributed – 0,9 t water below innerliner
35	Limited load – 6 fishermen uniformly distributed – 1,0 t water below innerliner
36	Limited load – 6 fishermen uniformly distributed – 1,5 t water below innerliner
38	Limited load – 6 fishermen uniformly distributed – hull damaged causing water ingress below innerliner

Loading Condition no. : 1

## Lettskip

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.298 m  
 Trim over Lpp (aft +) : -0.026 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.285 m  
 Draught, LCF (moulded) : 0.296 m  
 Draught, FP (moulded) : 0.311 m

Displacement ..... : 1.426 MT  
 LCB (rel. AP) ..... : 2.250 m  
 VCB (rel. BL) ..... : 0.198 m  
 LCF (rel. AP) ..... : 2.277 m  
 TPC - Immersion ..... : 0.092 MT/cm  
 Trim Moment ..... : 0.032 MT\*m/cm

## WEIGHT SUMMARY

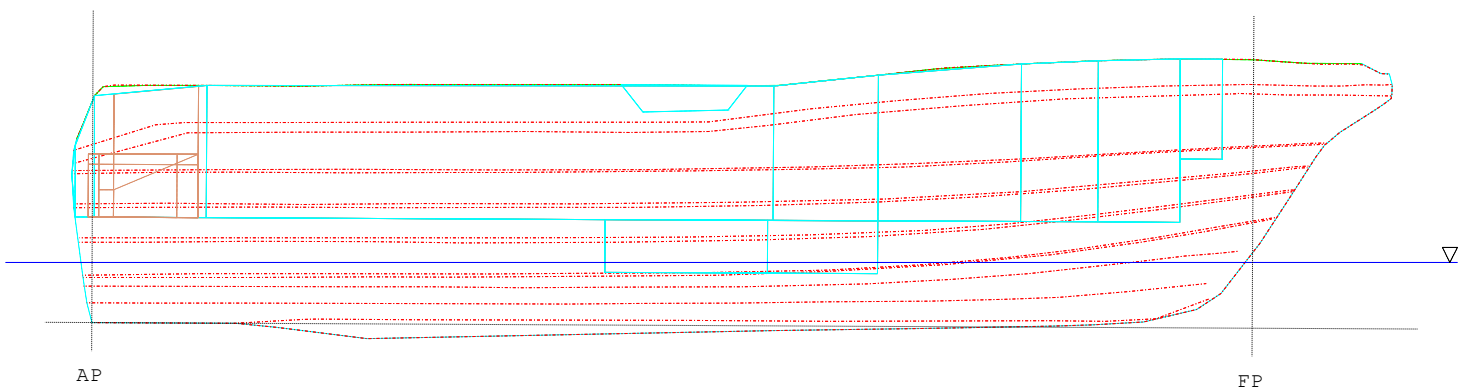
The ship has no deadweight onboard

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.667 m  
 Free Surface Correction: 0.000 m  
 KM (metacentre) ..... : 2.053 m  
 GM (incl. FSC) ..... : 1.386 m

KGmax, intact, calc. . : 99.990 m

Stability Margin ..... : 99.323 m  
 Stability Conclusion . : OK

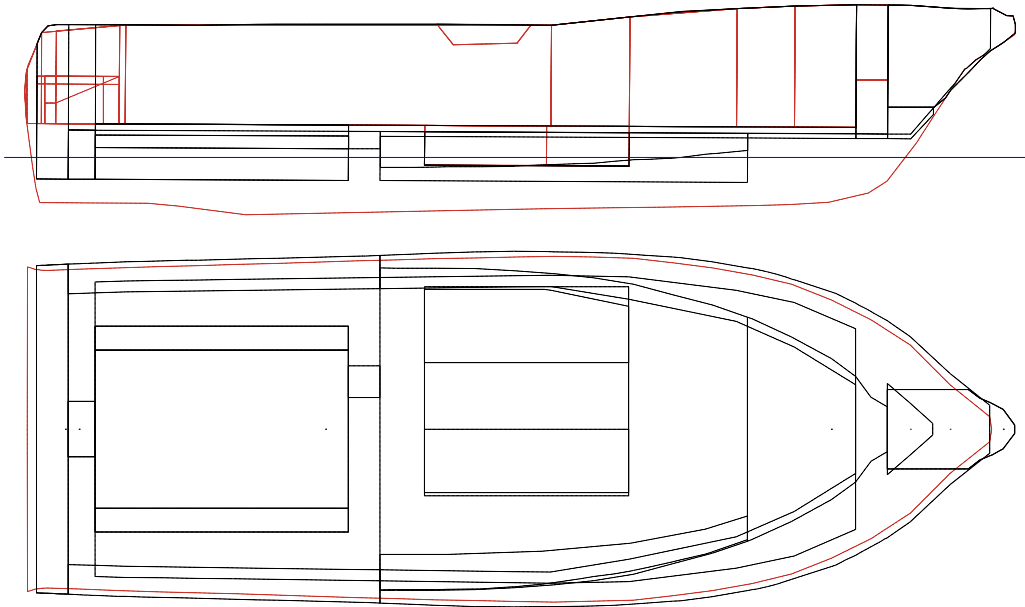


Water Density = 1.025 t/m3

Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

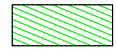
Loading Condition no. : 1  
 Condition Id. text : Lettskip



○ - UNIT LOADS



Cargo



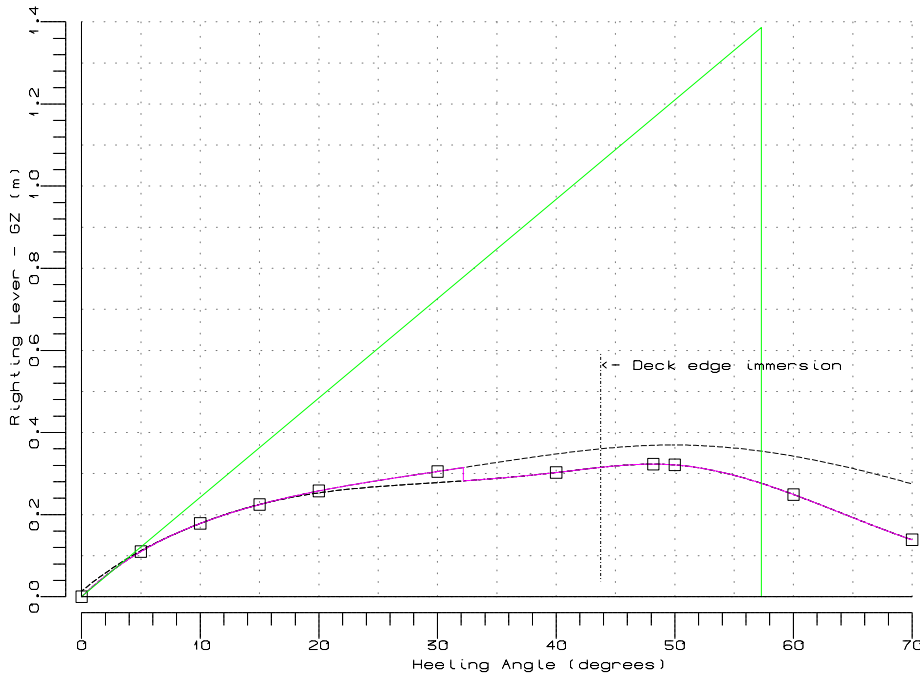
Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
	DEAD WEIGHT	0.000					0.000	0.000	0.000	
	LIGHT WEIGHT, Inc.t. Nor	1.427					2.248	0.000	0.667	
	TOTAL WEIGHT	1.427					2.248	0.000	0.667	

Loading Condition no. : 1  
 Condition Id. text : Lettskip

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.110	0.0052
10.000	0.178	0.0180
15.000	0.225	0.0357
20.000	0.258	0.0568
30.000	0.305	0.1061
40.000	0.302	0.1577
48.187	0.323	0.2027
50.000	0.321	0.2129
60.000	0.249	0.2639
70.000	0.139	0.2976

Deck immersion : 43.750 °  
 Maximum GZ at : 48.187 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.1061 m\*rad  
 Area, 0 - 40 : 0.1577 m\*rad  
 Area, 30 - 40 : 0.0516 m\*rad  
 Area, 0 - maxGZ : 0.2027 m\*rad  
 GM : 1.386 m

Heel to starboard side  
 Applied VCG : 0.667 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

Flood Opening Results

Loading Condition no. : 1 ,Lettskip

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	32.19	0.34
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.05
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	57.81	0.14
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.19
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	**	0.19
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	52.03	0.84
7	Rekke akter	Ref. point		0.1	0.9	1.08	54.37	0.80
8	Rekke forut	Ref. point		4.8	0.8	1.26	67.34	0.96
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	64.37	0.22

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

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 Loading Condition no. : 1 ,Lettskip

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.584	0.584
2	-0.075	1.024	0.874	0.589	0.589
3	-0.050	1.017	0.933	0.648	0.648
4	-0.025	1.009	0.993	0.708	0.708
5	0.000	1.006	1.055	0.770	0.770
6	0.008	1.005	1.075	0.790	0.790
7	0.048	1.003	1.118	0.833	0.833
8	0.250	1.010	1.126	0.840	0.840
9	0.500	1.019	1.126	0.839	0.839
10	0.750	1.027	1.126	0.837	0.837
11	1.000	1.034	1.126	0.837	0.837
12	1.250	1.040	1.131	0.840	0.840
13	1.500	1.047	1.135	0.843	0.843
14	1.750	1.055	1.136	0.843	0.843
15	2.000	1.063	1.137	0.843	0.843
16	2.250	1.070	1.138	0.842	0.842
17	2.500	1.077	1.139	0.842	0.842
18	2.750	1.082	1.138	0.840	0.840
19	3.000	1.087	1.138	0.838	0.838
20	3.250	1.092	1.140	0.839	0.839
21	3.500	1.086	1.167	0.865	0.865
22	3.750	1.079	1.194	0.891	0.891
23	4.000	1.051	1.222	0.918	0.918
24	4.250	1.018	1.239	0.933	0.933
25	4.500	0.974	1.252	0.945	0.945
26	4.750	0.915	1.263	0.955	0.955
27	5.000	0.816	1.271	0.962	0.962
28	5.250	0.692	1.274	0.964	0.964
29	5.500	0.530	1.273	0.961	0.961
30	5.750	0.280	1.256	0.944	0.944
31	6.000	0.079	1.256	0.942	0.942
32	6.013	0.000	1.256	0.942	0.942

Freeboard is vertical distance from deck point to sea at equilibrium.  
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Loading Condition no. : 2

### Fiskere jevnt fordelt

FLOATING CONDITION DATA

Mean Draught (moulded) : 0.376 m  
 Trim over Lpp (aft +) : 0.042 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.397 m  
 Draught, LCF (moulded) : 0.380 m  
 Draught, FP (moulded) : 0.356 m

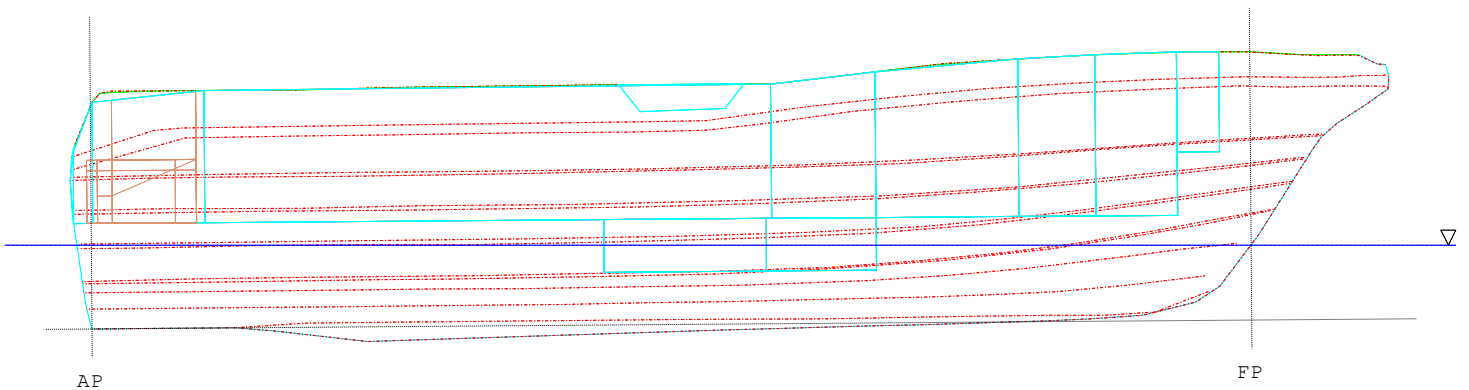
WEIGHT SUMMARY

Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Total DEADWEIGHT : 0.8 MT

Displacement ..... : 2.215 MT  
 LCB (rel. AP) ..... : 2.167 m  
 VCB (rel. BL) ..... : 0.248 m  
 LCF (rel. AP) ..... : 2.323 m  
 TPC - Immersion ..... : 0.096 MT/cm  
 Trim Moment ..... : 0.034 MT\*m/cm

STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.866 m  
 Free Surface Correction: 0.000 m  
 KM (metacentre) ..... : 1.524 m  
 GM (incl. FSC) ..... : 0.658 m  
  
 KGmax, intact, calc. . : 99.990 m  
  
 Stability Margin ..... : 99.124 m  
 Stability Conclusion . : OK

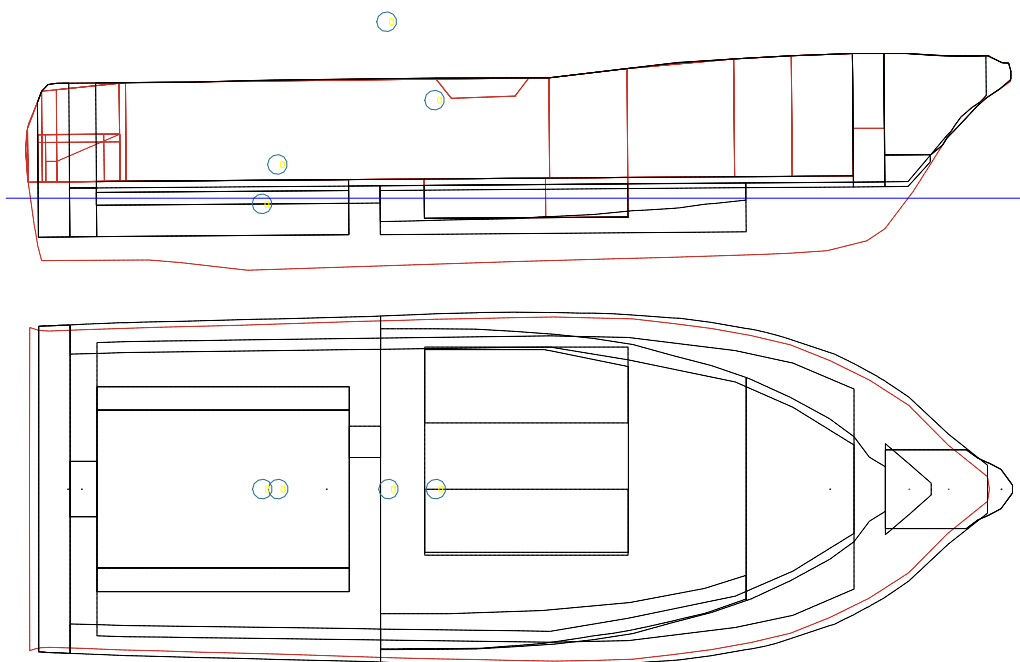


Water Density = 1.025 t/m3

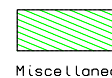
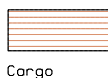
Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 2  
 Condition Id. text : Fiskere jevnt fordelt



○ - UNIT LOADS



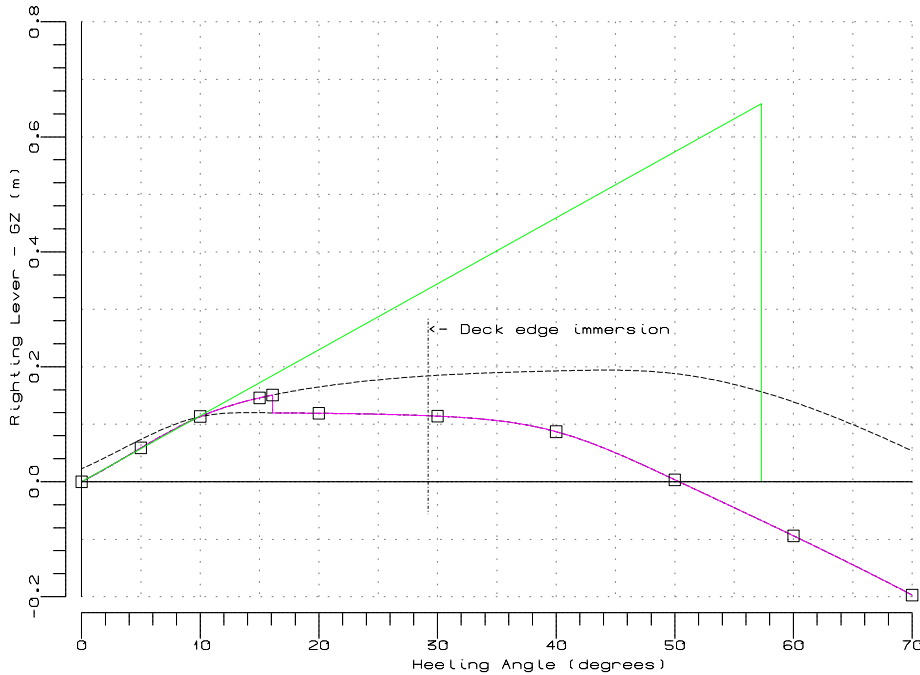
WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
DEAD WEIGHT		0.788					2.033	0.000	1.227	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.215					2.172	0.000	0.866	



Loading Condition no. : 2  
 Condition Id. text : Fiskere jevnt fordelt

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.059	0.0025
10.000	0.113	0.0102
15.000	0.146	0.0216
16.094	0.151	0.0245
20.000	0.119	0.0326
30.000	0.114	0.0531
40.000	0.087	0.0713
50.000	0.004	0.0798
60.000	-0.094	0.0720
70.000	-0.197	0.0467

Deck immersion : 29.219 °  
 Maximum GZ at : 16.094 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0531 m\*rad  
 Area, 0 - 40 : 0.0713 m\*rad  
 Area, 30 - 40 : 0.0183 m\*rad  
 Area, 0 - maxGZ : 0.0245 m\*rad  
 GM : 0.658 m

Heel to starboard side  
 Applied VCG : 0.866 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

Flood Opening Results

Loading Condition no. : 2 ,Fiskere jevnt fordelt

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	16.09	0.23
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.15
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	3.44	0.03
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.09
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	16.56	0.09
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	41.41	0.76
7	Rekke akter	Ref. point		0.1	0.9	1.08	36.64	0.69
8	Rekke forut	Ref. point		4.8	0.8	1.26	57.50	0.90
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	16.09	0.11

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 2 ,Fiskere jevnt fordelt

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.471	0.471
2	-0.075	1.024	0.874	0.476	0.476
3	-0.050	1.017	0.933	0.535	0.535
4	-0.025	1.009	0.993	0.595	0.595
5	0.000	1.006	1.055	0.658	0.658
6	0.008	1.005	1.075	0.678	0.678
7	0.048	1.003	1.118	0.721	0.721
8	0.250	1.010	1.126	0.731	0.731
9	0.500	1.019	1.126	0.732	0.732
10	0.750	1.027	1.126	0.734	0.734
11	1.000	1.034	1.126	0.737	0.737
12	1.250	1.040	1.131	0.743	0.743
13	1.500	1.047	1.135	0.749	0.749
14	1.750	1.055	1.136	0.752	0.752
15	2.000	1.063	1.137	0.755	0.755
16	2.250	1.070	1.138	0.758	0.758
17	2.500	1.077	1.139	0.761	0.761
18	2.750	1.082	1.138	0.762	0.762
19	3.000	1.087	1.138	0.763	0.763
20	3.250	1.092	1.140	0.767	0.767
21	3.500	1.086	1.167	0.796	0.796
22	3.750	1.079	1.194	0.825	0.825
23	4.000	1.051	1.222	0.855	0.855
24	4.250	1.018	1.239	0.873	0.873
25	4.500	0.974	1.252	0.888	0.888
26	4.750	0.915	1.263	0.902	0.902
27	5.000	0.816	1.271	0.911	0.911
28	5.250	0.692	1.274	0.917	0.917
29	5.500	0.530	1.273	0.917	0.917
30	5.750	0.280	1.256	0.903	0.903
31	6.000	0.079	1.256	0.904	0.904
32	6.013	0.000	1.256	0.904	0.904

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 3

## Fiskere i borde

## FLOATING CONDITION DATA

Mean Draught (moulded) : -0.467 m  
 Trim over Lpp (aft +) : 0.406 m  
 List (starboard +) ... : 171.380 °  
 Draught, AP (moulded) : -0.265 m  
 Draught, LCF (moulded) : -0.405 m  
 Draught, FP (moulded) : -0.670 m

## WEIGHT SUMMARY

Fiskere i borde : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Total DEADWEIGHT : 0.8 MT

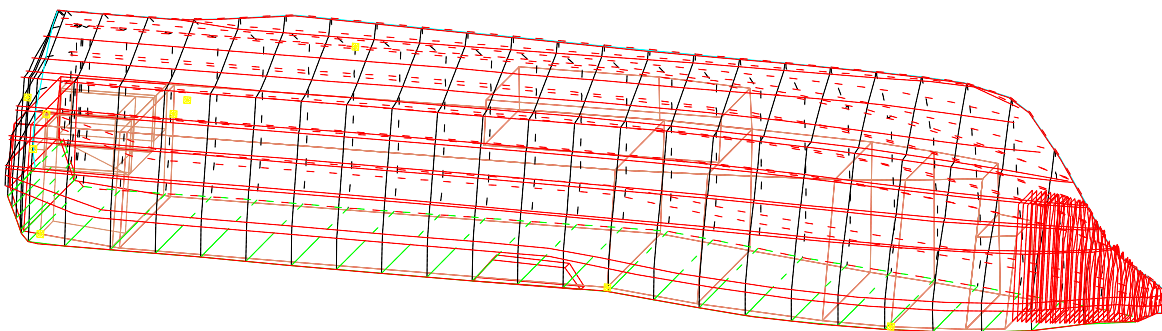
Displacement ..... : 2.215 MT  
 LCB (rel. AP) ..... : 2.184 m  
 VCB (rel. BL) ..... : m  
 LCF (rel. AP) ..... : 1.898 m  
 TPC - Immersion ..... : 0.063 MT/cm  
 Trim Moment ..... : 0.024 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.866 m  
 Free Surface Correction: 0.000 m  
 GM (GZ derived) ..... : 0.658 m

KGmax, intact, calc. . : 99.990 m

Stability Margin ..... : 99.124 m  
 Stability Conclusion . : OK

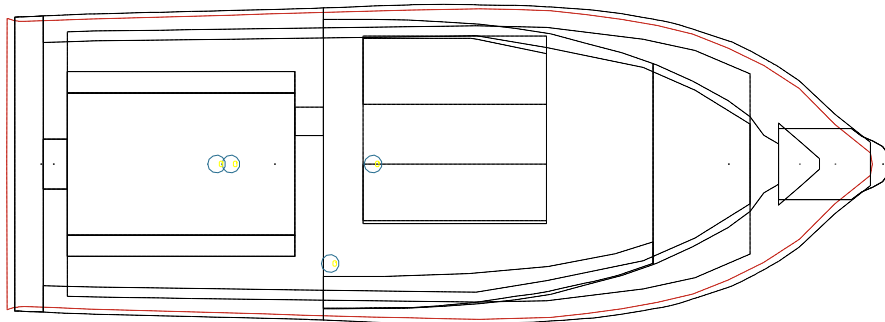
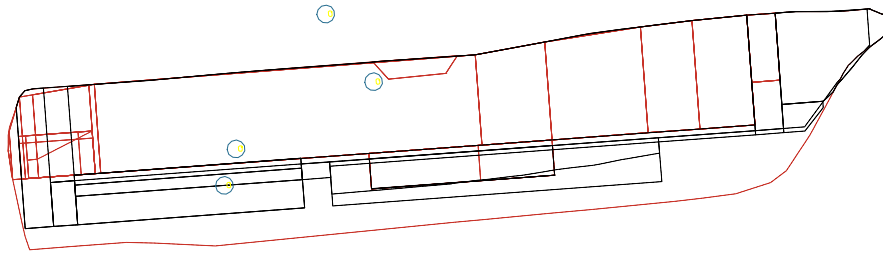


Water Density = 1.025 t/m3

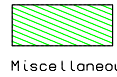
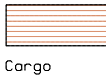
## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

Loading Condition no. : 3  
 Condition Id. text : Fiskere i borde



○ - UNIT LOADS

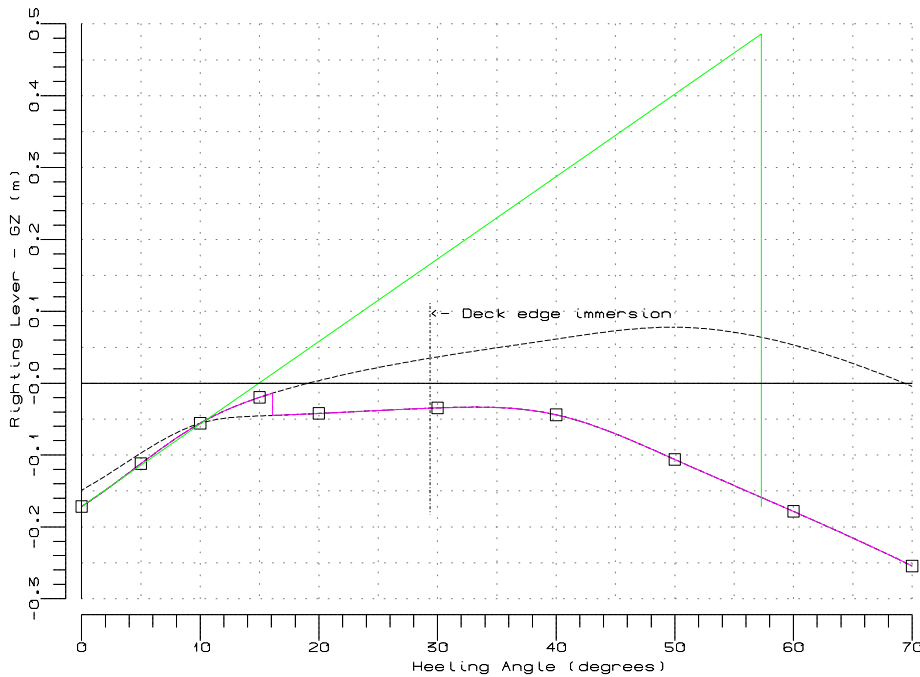


WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere i borde									
-	Personell i borde	0.543					2.200	0.700	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
DEAD WEIGHT		0.788					2.033	0.482	1.227	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.215					2.172	0.172	0.866	

Loading Condition no. : 3  
 Condition Id. text : Fiskere i borde

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.172	0.0000
5.000	-0.112	-0.0124
10.000	-0.056	-0.0196
15.000	-0.020	-0.0228
20.000	-0.042	-0.0261
30.000	-0.034	-0.0327
40.000	-0.044	-0.0390
50.000	-0.106	-0.0515
60.000	-0.178	-0.0764
70.000	-0.254	-0.1140
171.380	0.000	-0.5640

Deck immersion : 29.375 °  
 Area, 0 - 30 : -0.0327 m\*rad  
 Area, 0 - 40 : -0.0390 m\*rad  
 Area, 30 - 40 : -0.0062 m\*rad  
 GM : 0.658 m

Heel to starboard side  
 Applied VCG : 0.866 m  
 TCG : 0.172 m

Please note !

-The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).

Flood Opening Results

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Loading Condition no. : 3 ,Fiskere i borde

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	16.09	-0.48
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	0.29
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	3.12	-0.22
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	-0.12
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	16.56	-0.20
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	41.33	-0.77
7	Rekke akter	Ref. point		0.1	0.9	1.08	36.72	-0.94
8	Rekke forut	Ref. point		4.8	0.8	1.26	57.11	-0.75
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	16.09	-0.30

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*\*) Flooding angle is outside of specified heel range.

-----

## Freeboard to Deck

-----  
 Loading Condition no. : 3 ,Fiskere i borde

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	-0.599	-0.599
2	-0.075	1.024	0.874	-0.756	-0.450
3	-0.050	1.017	0.933	-0.812	-0.508
4	-0.025	1.009	0.993	-0.868	-0.566
5	0.000	1.006	1.055	-0.927	-0.626
6	0.008	1.005	1.075	-0.946	-0.645
7	0.048	1.003	1.118	-0.985	-0.685
8	0.250	1.010	1.126	-0.979	-0.677
9	0.500	1.019	1.126	-0.962	-0.657
10	0.750	1.027	1.126	-0.945	-0.638
11	1.000	1.034	1.126	-0.928	-0.619
12	1.250	1.040	1.131	-0.915	-0.604
13	1.500	1.047	1.135	-0.902	-0.589
14	1.750	1.055	1.136	-0.885	-0.570
15	2.000	1.063	1.137	-0.869	-0.551
16	2.250	1.070	1.138	-0.853	-0.533
17	2.500	1.077	1.139	-0.836	-0.514
18	2.750	1.082	1.138	-0.818	-0.495
19	3.000	1.087	1.138	-0.800	-0.475
20	3.250	1.092	1.140	-0.784	-0.457
21	3.500	1.086	1.167	-0.792	-0.467
22	3.750	1.079	1.194	-0.799	-0.476
23	4.000	1.051	1.222	-0.804	-0.490
24	4.250	1.018	1.239	-0.797	-0.492
25	4.500	0.974	1.252	-0.785	-0.494
26	4.750	0.915	1.263	-0.769	-0.496
27	5.000	0.816	1.271	-0.743	-0.499
28	5.250	0.692	1.274	-0.710	-0.503
29	5.500	0.530	1.273	-0.666	-0.507
30	5.750	0.280	1.256	-0.594	-0.510
31	6.000	0.079	1.256	-0.544	-0.521
32	6.013	0.000	1.256	-0.532	-0.532

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----



Loading Condition no. : 4

Fiskere akterut

FLOATING CONDITION DATA

Mean Draught (moulded) : 0.358 m  
 Trim over Lpp (aft +) : 0.252 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.484 m  
 Draught, LCF (moulded) : 0.382 m  
 Draught, FP (moulded) : 0.232 m

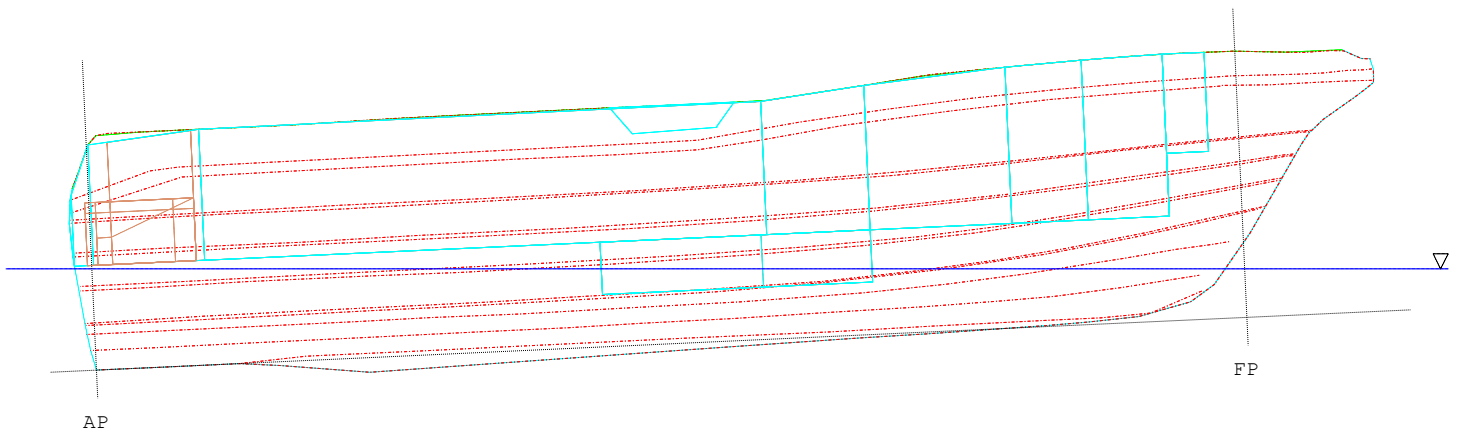
WEIGHT SUMMARY

Fiskere akter : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Total DEADWEIGHT : 0.8 MT

Displacement ..... : 2.215 MT  
 LCB (rel. AP) ..... : 1.850 m  
 VCB (rel. BL) ..... : 0.256 m  
 LCF (rel. AP) ..... : 2.218 m  
 TPC - Immersion ..... : 0.093 MT/cm  
 Trim Moment ..... : 0.028 MT\*m/cm

STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.866 m  
 Free Surface Correction: 0.000 m  
 KM (metacentre) ..... : 1.507 m  
 GM (incl. FSC) ..... : 0.640 m  
  
 KGmax, intact, calc. . : 99.990 m  
  
 Stability Margin ..... : 99.124 m  
 Stability Conclusion . : OK

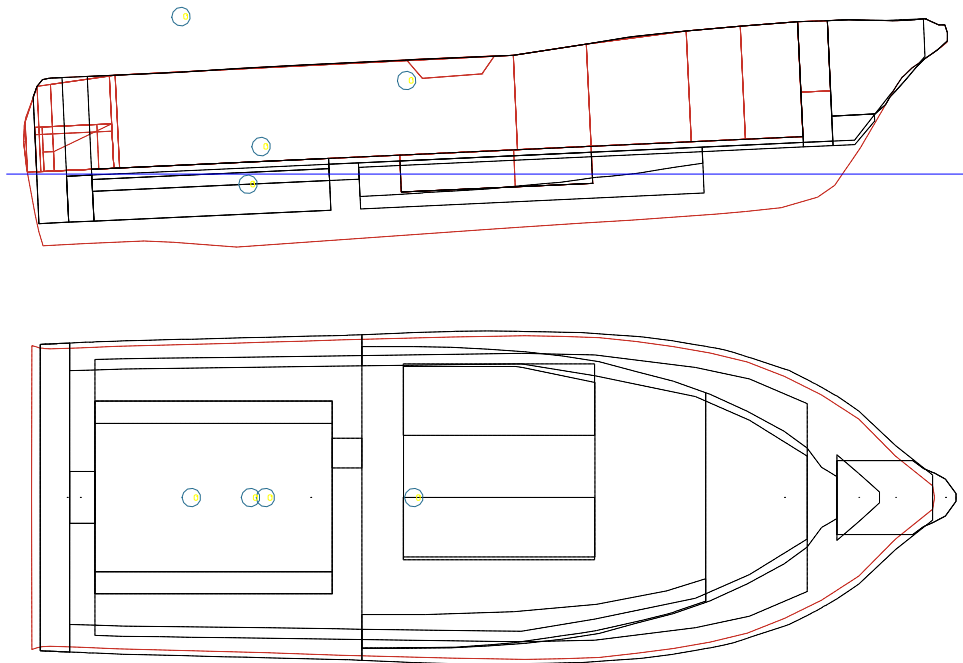


Water Density = 1.025 t/m3

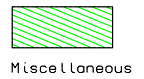
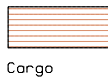
Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 4  
 Condition Id. text : Fiskere akterut



○ - UNIT LOADS

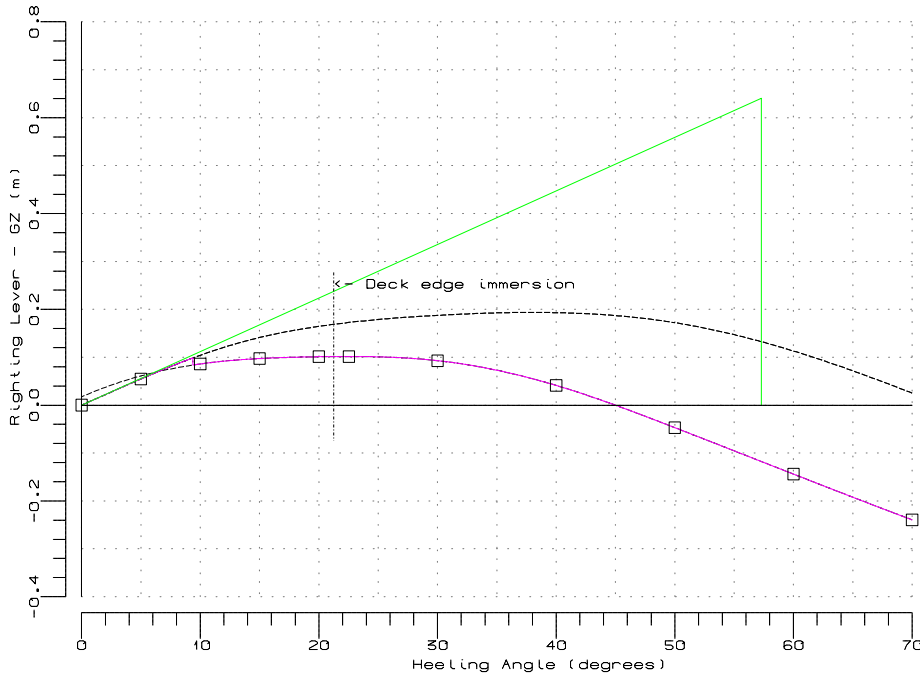


WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere akter									
-	Personer akterut	0.543					1.000	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
DEAD WEIGHT		0.788					1.206	0.000	1.227	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.215					1.877	0.000	0.866	

Loading Condition no. : 4  
 Condition Id. text : Fiskere akterut

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.055	0.0024
10.000	0.086	0.0092
15.000	0.097	0.0173
20.000	0.101	0.0260
22.525	0.102	0.0304
30.000	0.093	0.0433
40.000	0.041	0.0557
50.000	-0.047	0.0555
60.000	-0.144	0.0389
70.000	-0.240	0.0053

Deck immersion : 21.250 °  
 Maximum GZ at : 22.525 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0433 m\*rad  
 Area, 0 - 40 : 0.0557 m\*rad  
 Area, 30 - 40 : 0.0124 m\*rad  
 Area, 0 - maxGZ: 0.0304 m\*rad  
 GM : 0.640 m

Heel to starboard side  
 Applied VCG : 0.866 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

Flood Opening Results

Loading Condition no. : 4 ,Fiskere akterut

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	9.38	0.15
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.18
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.07
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	50.31	0.03
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	6.25	0.03
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	44.22	0.80
7	Rekke akter	Ref. point		0.1	0.9	1.08	28.12	0.60
8	Rekke forut	Ref. point		4.8	0.8	1.26	**	1.00
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	2.81	0.02

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 4 ,Fiskere akterut

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.381	0.381
2	-0.075	1.024	0.874	0.386	0.386
3	-0.050	1.017	0.933	0.446	0.446
4	-0.025	1.009	0.993	0.507	0.507
5	0.000	1.006	1.055	0.571	0.571
6	0.008	1.005	1.075	0.591	0.591
7	0.048	1.003	1.118	0.636	0.636
8	0.250	1.010	1.126	0.653	0.653
9	0.500	1.019	1.126	0.664	0.664
10	0.750	1.027	1.126	0.676	0.676
11	1.000	1.034	1.126	0.688	0.688
12	1.250	1.040	1.131	0.703	0.703
13	1.500	1.047	1.135	0.719	0.719
14	1.750	1.055	1.136	0.732	0.732
15	2.000	1.063	1.137	0.744	0.744
16	2.250	1.070	1.138	0.756	0.756
17	2.500	1.077	1.139	0.769	0.769
18	2.750	1.082	1.138	0.779	0.779
19	3.000	1.087	1.138	0.790	0.790
20	3.250	1.092	1.140	0.804	0.804
21	3.500	1.086	1.167	0.842	0.842
22	3.750	1.079	1.194	0.881	0.881
23	4.000	1.051	1.222	0.920	0.920
24	4.250	1.018	1.239	0.948	0.948
25	4.500	0.974	1.252	0.973	0.973
26	4.750	0.915	1.263	0.996	0.996
27	5.000	0.816	1.271	1.015	1.015
28	5.250	0.692	1.274	1.030	1.030
29	5.500	0.530	1.273	1.039	1.039
30	5.750	0.280	1.256	1.035	1.035
31	6.000	0.079	1.256	1.045	1.045
32	6.013	0.000	1.256	1.046	1.046

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 5

## Fiskere jevnt fordelt - 0.1 t vann i "lasterom"

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.384 m  
 Trim over Lpp (aft +) : 0.083 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.425 m  
 Draught, LCF (moulded) : 0.390 m  
 Draught, FP (moulded) : 0.342 m

## WEIGHT SUMMARY

Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Vann i lasterom : 0.1 MT  
 Total DEADWEIGHT : 0.9 MT

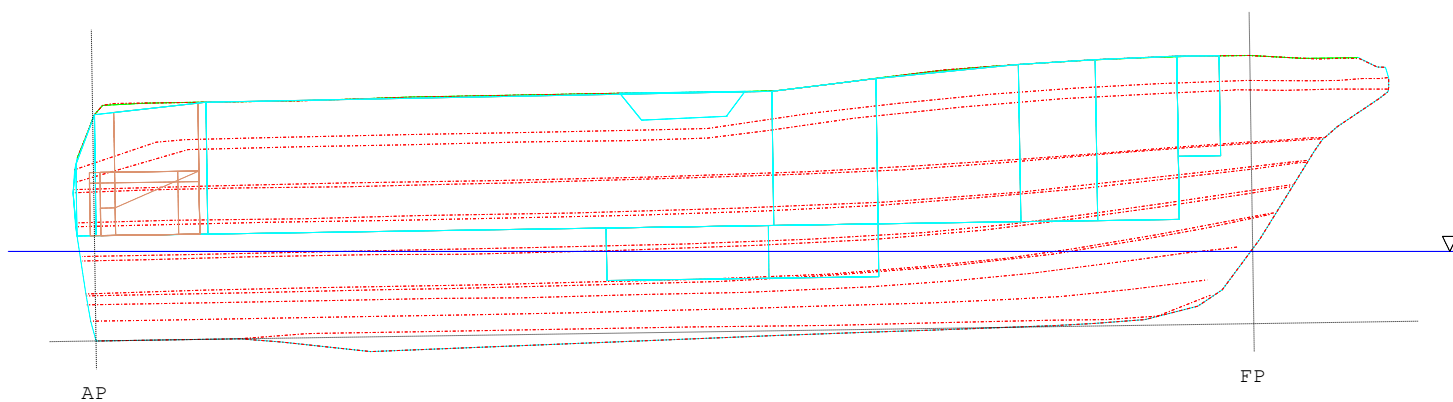
Displacement ..... : 2.316 MT  
 LCB (rel. AP) ..... : 2.111 m  
 VCB (rel. BL) ..... : 0.255 m  
 LCF (rel. AP) ..... : 2.312 m  
 TPC - Immersion ..... : 0.097 MT/cm  
 Trim Moment ..... : 0.034 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.917 m  
 Free Surface Correction: 0.080 m  
 KM (metacentre) ..... : 1.496 m  
 GM (incl. FSC) ..... : 0.579 m

KGmax, intact, calc. . : 99.990 m

Stability Margin ..... : 99.073 m  
 Stability Conclusion . : OK

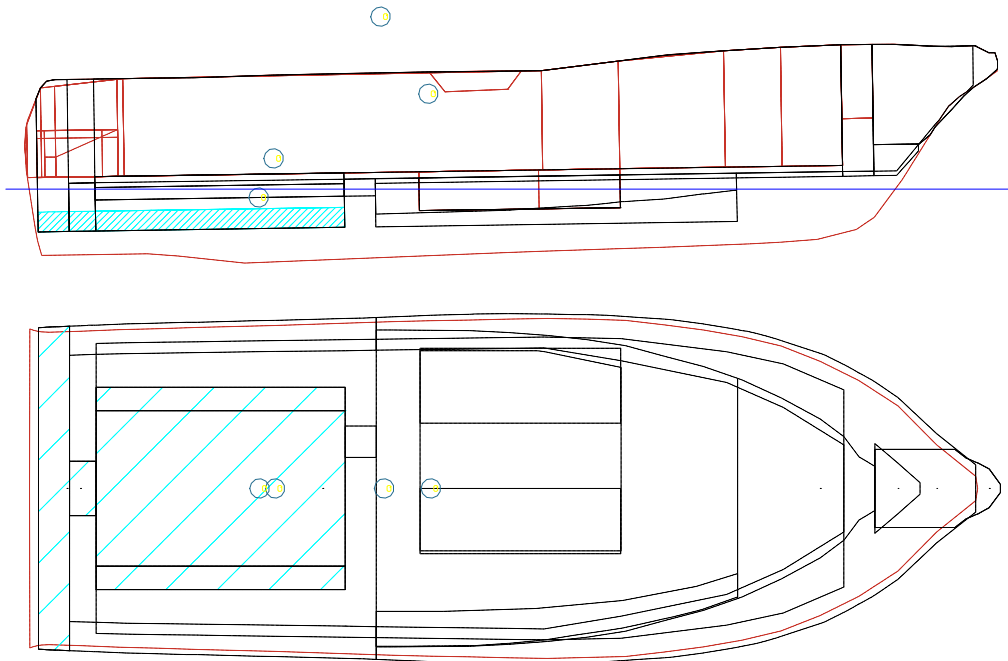


Water Density = 1.025 t/m3

Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 5  
 Condition Id. text : Fiskere jevnt fordelt - 0.1 t vann i "lasterom"



○ - UNIT LOADS



Water Ballast



Cargo



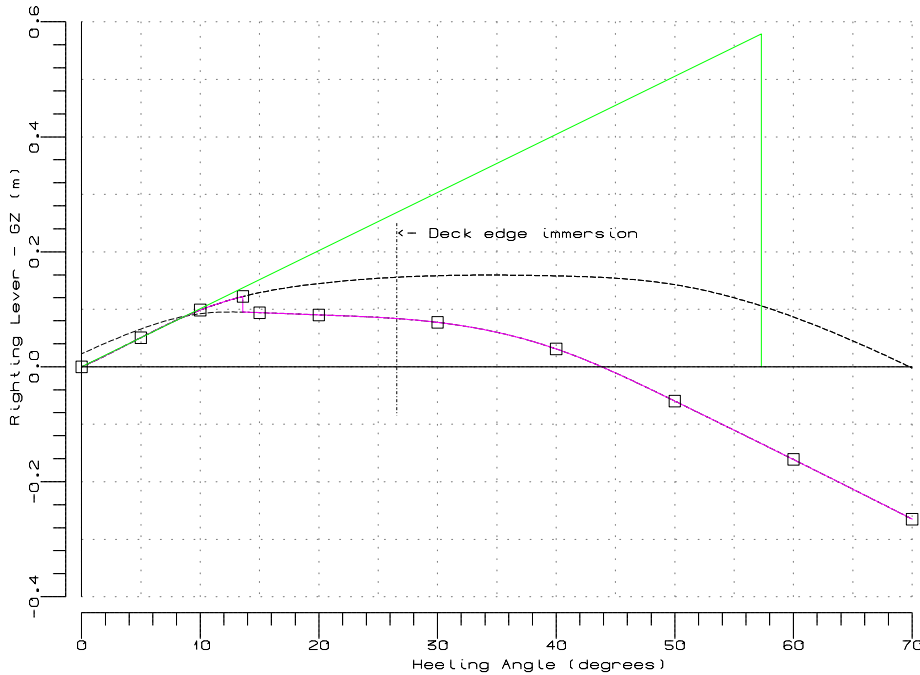
Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Vann i lasterom									
-	Lasterom	0.100	13.1	1.0250	-0.02	1.95	0.969	0.000	0.181	0.19
DEAD WEIGHT		0.888					1.913	0.000	1.109	0.19
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.315					2.120	0.000	0.837	0.19

Loading Condition no. : 5  
 Condition Id. text : Fiskere jevnt fordelt - 0.1 t vann i "lasterom"

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.051	0.0022
10.000	0.099	0.0088
13.594	0.122	0.0158
15.000	0.094	0.0181
20.000	0.090	0.0261
30.000	0.077	0.0410
40.000	0.031	0.0512
50.000	-0.060	0.0491
60.000	-0.161	0.0299
70.000	-0.265	-0.0073

Deck immersion : 26.562 °  
 Maximum GZ at : 13.594 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0410 m\*rad  
 Area, 0 - 40 : 0.0512 m\*rad  
 Area, 30 - 40 : 0.0101 m\*rad  
 Area, 0 - maxGZ: 0.0158 m\*rad  
 GM : 0.579 m

Heel to starboard side  
 Applied VCG : 0.917 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)



## Flood Opening Results

Loading Condition no. : 5 ,Fiskere jevnt fordelt - 0.1 t vann i "lasterom"

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	13.59	0.21
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.16
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.01
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.07
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	13.59	0.07
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	40.39	0.76
7	Rekke akter	Ref. point		0.1	0.9	1.08	33.20	0.66
8	Rekke forut	Ref. point		4.8	0.8	1.26	58.75	0.91
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	10.62	0.08

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 5 ,Fiskere jevnt fordelt - 0.1 t vann i "lasterom

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.443	0.443
2	-0.075	1.024	0.874	0.448	0.448
3	-0.050	1.017	0.933	0.507	0.507
4	-0.025	1.009	0.993	0.568	0.568
5	0.000	1.006	1.055	0.630	0.630
6	0.008	1.005	1.075	0.650	0.650
7	0.048	1.003	1.118	0.694	0.694
8	0.250	1.010	1.126	0.705	0.705
9	0.500	1.019	1.126	0.708	0.708
10	0.750	1.027	1.126	0.712	0.712
11	1.000	1.034	1.126	0.716	0.716
12	1.250	1.040	1.131	0.725	0.725
13	1.500	1.047	1.135	0.733	0.733
14	1.750	1.055	1.136	0.737	0.737
15	2.000	1.063	1.137	0.742	0.742
16	2.250	1.070	1.138	0.747	0.747
17	2.500	1.077	1.139	0.752	0.752
18	2.750	1.082	1.138	0.755	0.755
19	3.000	1.087	1.138	0.758	0.758
20	3.250	1.092	1.140	0.763	0.763
21	3.500	1.086	1.167	0.794	0.794
22	3.750	1.079	1.194	0.825	0.825
23	4.000	1.051	1.222	0.857	0.857
24	4.250	1.018	1.239	0.877	0.877
25	4.500	0.974	1.252	0.894	0.894
26	4.750	0.915	1.263	0.910	0.910
27	5.000	0.816	1.271	0.921	0.921
28	5.250	0.692	1.274	0.928	0.928
29	5.500	0.530	1.273	0.930	0.930
30	5.750	0.280	1.256	0.918	0.918
31	6.000	0.079	1.256	0.921	0.921
32	6.013	0.000	1.256	0.921	0.921

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 6

## Fiskere jevnt fordelt - 0.2 t vann i "lasterom"

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.391 m  
 Trim over Lpp (aft +) : 0.124 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.453 m  
 Draught, LCF (moulded) : 0.401 m  
 Draught, FP (moulded) : 0.328 m

## WEIGHT SUMMARY

Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Vann i lasterom : 0.2 MT  
 Total DEADWEIGHT : 1.0 MT

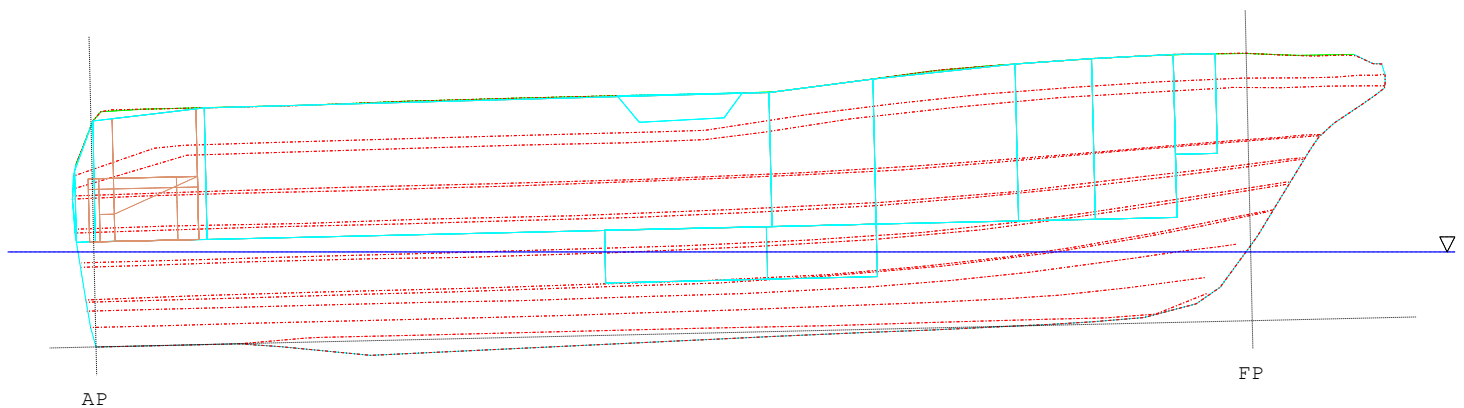
Displacement ..... : 2.415 MT  
 LCB (rel. AP) ..... : 2.058 m  
 VCB (rel. BL) ..... : 0.262 m  
 LCF (rel. AP) ..... : 2.307 m  
 TPC - Immersion ..... : 0.097 MT/cm  
 Trim Moment ..... : 0.033 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.910 m  
 Free Surface Correction: 0.098 m  
 KM (metacentre) ..... : 1.462 m  
 GM (incl. FSC) ..... : 0.552 m

KGmax, intact, calc. . : 99.990 m

Stability Margin ..... : 99.080 m  
 Stability Conclusion . : OK

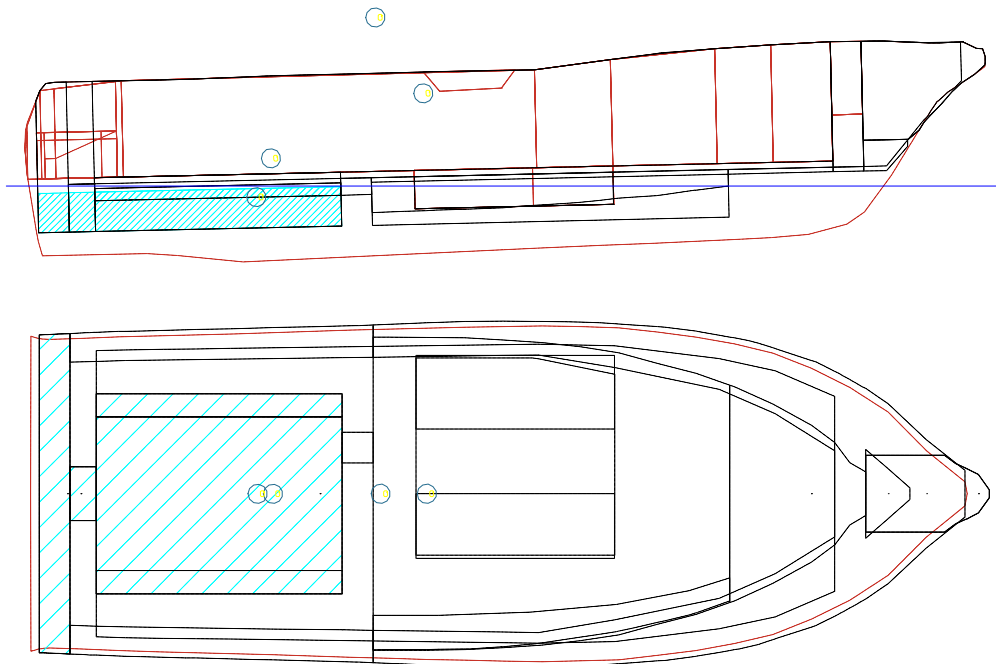


Water Density = 1.025 t/m3

Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 6  
 Condition Id. text : Fiskere jevnt fordelt - 0.2 t vann i "lasterom"



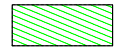
○ - UNIT LOADS



Water Ballast



Cargo



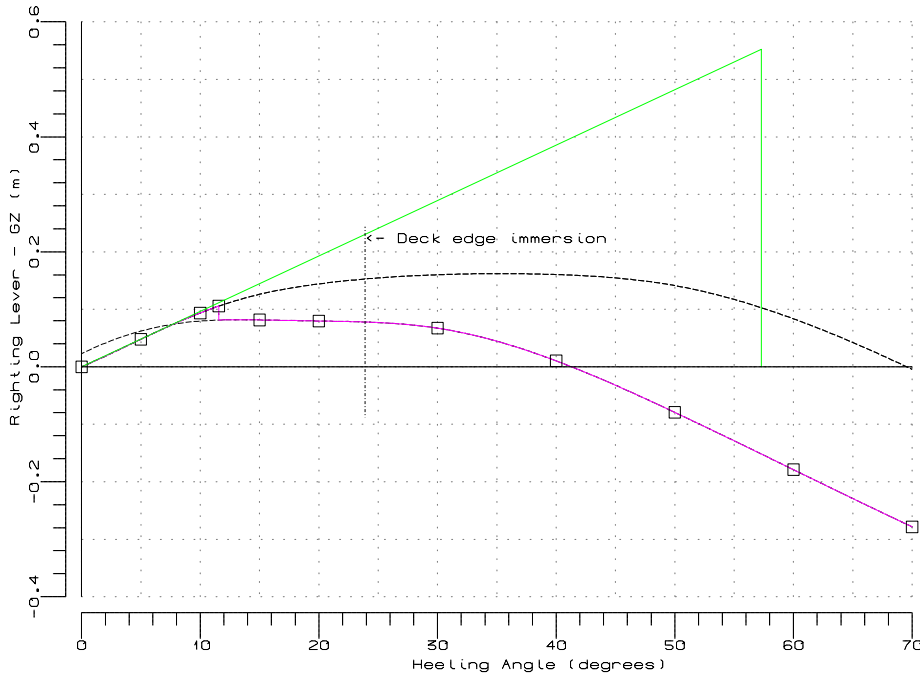
Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Vann i lasterom									
-	Lasterom	0.200	26.2	1.0250	-0.02	1.95	0.956	0.000	0.206	0.24
DEAD WEIGHT		0.988					1.815	0.000	1.020	0.24
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.415					2.071	0.000	0.812	0.24

Loading Condition no. : 6  
 Condition Id. text : Fiskere jevnt fordelt - 0.2 t vann i "lasterom"

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.048	0.0021
10.000	0.094	0.0083
11.562	0.106	0.0110
15.000	0.082	0.0159
20.000	0.080	0.0230
30.000	0.067	0.0362
40.000	0.010	0.0436
50.000	-0.079	0.0379
60.000	-0.179	0.0154
70.000	-0.278	-0.0245

Deck immersion : 23.906 °  
 Maximum GZ at : 11.562 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0362 m\*rad  
 Area, 0 - 40 : 0.0436 m\*rad  
 Area, 30 - 40 : 0.0074 m\*rad  
 Area, 0 - maxGZ: 0.0110 m\*rad  
 GM : 0.552 m

Heel to starboard side  
 Applied VCG : 0.910 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

## Flood Opening Results

Loading Condition no. : 6 ,Fiskere jevnt fordelt - 0.2 t vann i "lasterom"

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	11.56	0.18
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.18
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.03
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	58.75	0.04
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	10.00	0.04
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	39.37	0.76
7	Rekke akter	Ref. point		0.1	0.9	1.08	30.16	0.63
8	Rekke forut	Ref. point		4.8	0.8	1.26	60.47	0.92
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	6.88	0.05

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 6 ,Fiskere jevnt fordelt - 0.2 t vann i "lasterom

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.414	0.414
2	-0.075	1.024	0.874	0.419	0.419
3	-0.050	1.017	0.933	0.479	0.479
4	-0.025	1.009	0.993	0.539	0.539
5	0.000	1.006	1.055	0.602	0.602
6	0.008	1.005	1.075	0.622	0.622
7	0.048	1.003	1.118	0.666	0.666
8	0.250	1.010	1.126	0.679	0.679
9	0.500	1.019	1.126	0.684	0.684
10	0.750	1.027	1.126	0.690	0.690
11	1.000	1.034	1.126	0.696	0.696
12	1.250	1.040	1.131	0.706	0.706
13	1.500	1.047	1.135	0.716	0.716
14	1.750	1.055	1.136	0.723	0.723
15	2.000	1.063	1.137	0.729	0.729
16	2.250	1.070	1.138	0.736	0.736
17	2.500	1.077	1.139	0.743	0.743
18	2.750	1.082	1.138	0.748	0.748
19	3.000	1.087	1.138	0.753	0.753
20	3.250	1.092	1.140	0.760	0.760
21	3.500	1.086	1.167	0.793	0.793
22	3.750	1.079	1.194	0.826	0.826
23	4.000	1.051	1.222	0.859	0.859
24	4.250	1.018	1.239	0.882	0.882
25	4.500	0.974	1.252	0.900	0.900
26	4.750	0.915	1.263	0.918	0.918
27	5.000	0.816	1.271	0.931	0.931
28	5.250	0.692	1.274	0.940	0.940
29	5.500	0.530	1.273	0.944	0.944
30	5.750	0.280	1.256	0.933	0.933
31	6.000	0.079	1.256	0.938	0.938
32	6.013	0.000	1.256	0.939	0.939

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 7

## Fiskere jevnt fordelt - 0.3 t vann i "lasterom"

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.397 m  
 Trim over Lpp (aft +) : 0.167 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.481 m  
 Draught, LCF (moulded) : 0.411 m  
 Draught, FP (moulded) : 0.314 m

## WEIGHT SUMMARY

Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Vann i lasterom : 0.3 MT  
 Total DEADWEIGHT : 1.1 MT

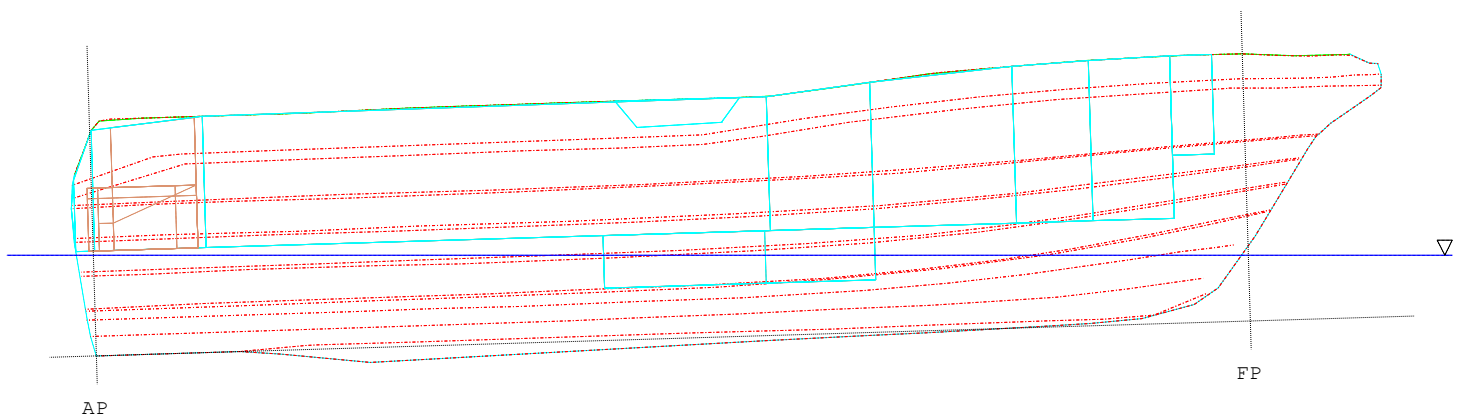
Displacement ..... : 2.515 MT  
 LCB (rel. AP) ..... : 2.010 m  
 VCB (rel. BL) ..... : 0.269 m  
 LCF (rel. AP) ..... : 2.292 m  
 TPC - Immersion ..... : 0.096 MT/cm  
 Trim Moment ..... : 0.032 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.894 m  
 Free Surface Correction: 0.103 m  
 KM (metacentre) ..... : 1.425 m  
 GM (incl. FSC) ..... : 0.531 m

KGmax, intact, calc. . : 99.990 m

Stability Margin ..... : 99.096 m  
 Stability Conclusion . : OK



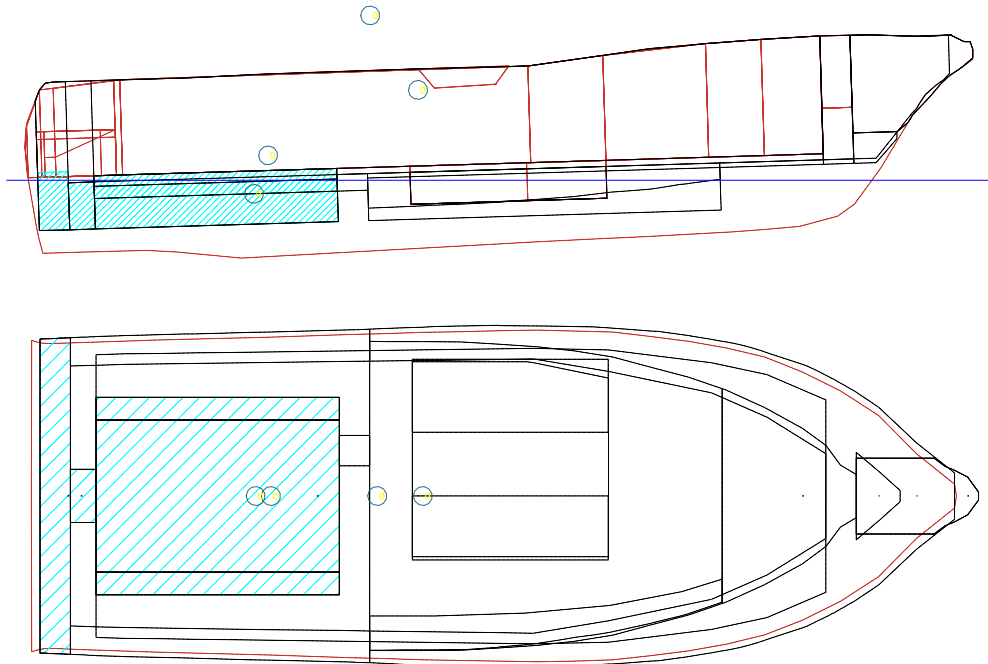
Water Density = 1.025 t/m3

## Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.



Loading Condition no. : 7  
 Condition Id. text : Fiskere jevnt fordelt - 0.3 t vann i "lasterom"



○ - UNIT LOADS



Water Ballast



Cargo



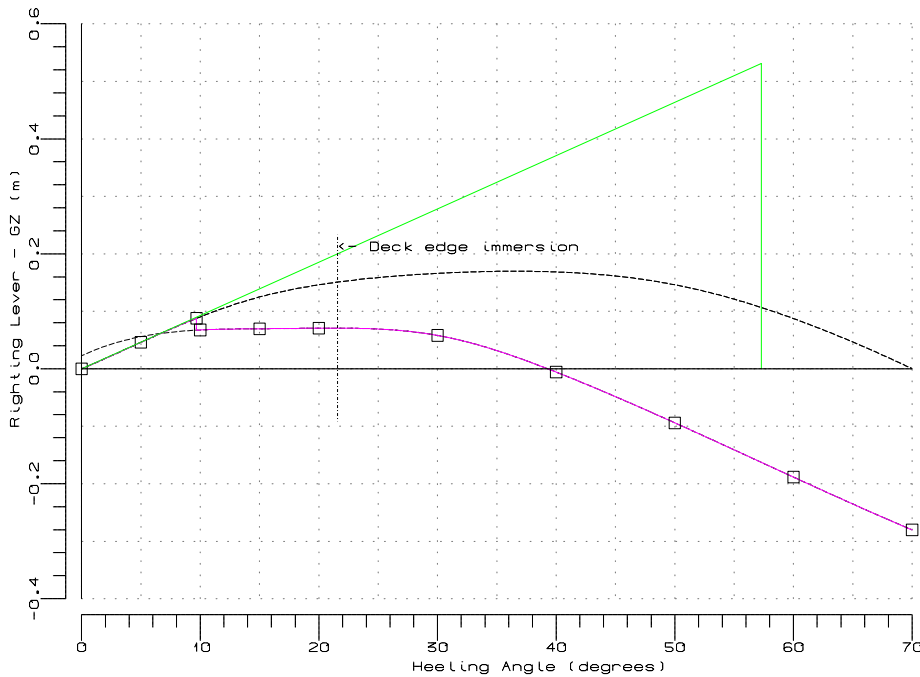
Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Vann i lasterom									
-	Lasterom	0.300	39.2	1.0250	-0.02	1.95	0.946	0.000	0.231	0.26
DEAD WEIGHT		1.088					1.733	0.000	0.953	0.26
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.515					2.025	0.000	0.791	0.26

Loading Condition no. : 7  
 Condition Id. text : Fiskere jevnt fordelt - 0.3 t vann i "lasterom"

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.046	0.0020
9.688	0.088	0.0075
10.000	0.068	0.0079
15.000	0.070	0.0139
20.000	0.071	0.0200
30.000	0.058	0.0318
40.000	-0.006	0.0370
50.000	-0.094	0.0285
60.000	-0.188	0.0039
70.000	-0.280	-0.0371

Deck immersion : 21.562 °  
 Maximum GZ at : 9.688 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0318 m\*rad  
 Area, 0 - 40 : 0.0370 m\*rad  
 Area, 30 - 40 : 0.0052 m\*rad  
 Area, 0 - maxGZ: 0.0075 m\*rad  
 GM : 0.531 m

Heel to starboard side  
 Applied VCG : 0.894 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

Flood Opening Results

Loading Condition no. : 7 ,Fiskere jevnt fordelt - 0.3 t vann i "lasterom"

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	9.69	0.15
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.20
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.06
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	39.69	0.02
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	4.38	0.02
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	38.36	0.75
7	Rekke akter	Ref. point		0.1	0.9	1.08	27.19	0.61
8	Rekke forut	Ref. point		4.8	0.8	1.26	62.11	0.93
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	3.28	0.03

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 7 ,Fiskere jevnt fordelt - 0.3 t vann i "lasterom

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.386	0.386
2	-0.075	1.024	0.874	0.390	0.390
3	-0.050	1.017	0.933	0.451	0.451
4	-0.025	1.009	0.993	0.511	0.511
5	0.000	1.006	1.055	0.574	0.574
6	0.008	1.005	1.075	0.594	0.594
7	0.048	1.003	1.118	0.638	0.638
8	0.250	1.010	1.126	0.652	0.652
9	0.500	1.019	1.126	0.660	0.660
10	0.750	1.027	1.126	0.668	0.668
11	1.000	1.034	1.126	0.676	0.676
12	1.250	1.040	1.131	0.688	0.688
13	1.500	1.047	1.135	0.699	0.699
14	1.750	1.055	1.136	0.708	0.708
15	2.000	1.063	1.137	0.717	0.717
16	2.250	1.070	1.138	0.725	0.725
17	2.500	1.077	1.139	0.734	0.734
18	2.750	1.082	1.138	0.741	0.741
19	3.000	1.087	1.138	0.747	0.747
20	3.250	1.092	1.140	0.757	0.757
21	3.500	1.086	1.167	0.792	0.792
22	3.750	1.079	1.194	0.827	0.827
23	4.000	1.051	1.222	0.862	0.862
24	4.250	1.018	1.239	0.886	0.886
25	4.500	0.974	1.252	0.907	0.907
26	4.750	0.915	1.263	0.926	0.926
27	5.000	0.816	1.271	0.941	0.941
28	5.250	0.692	1.274	0.952	0.952
29	5.500	0.530	1.273	0.958	0.958
30	5.750	0.280	1.256	0.949	0.949
31	6.000	0.079	1.256	0.956	0.956
32	6.013	0.000	1.256	0.957	0.957

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 8

## Fiskere jevnt fordelt - 0.4 t vann i "lasterom"

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.404 m  
 Trim over Lpp (aft +) : 0.211 m  
 List (starboard +) ... : 0.007 °  
 Draught, AP (moulded) : 0.510 m  
 Draught, LCF (moulded) : 0.419 m  
 Draught, FP (moulded) : 0.299 m

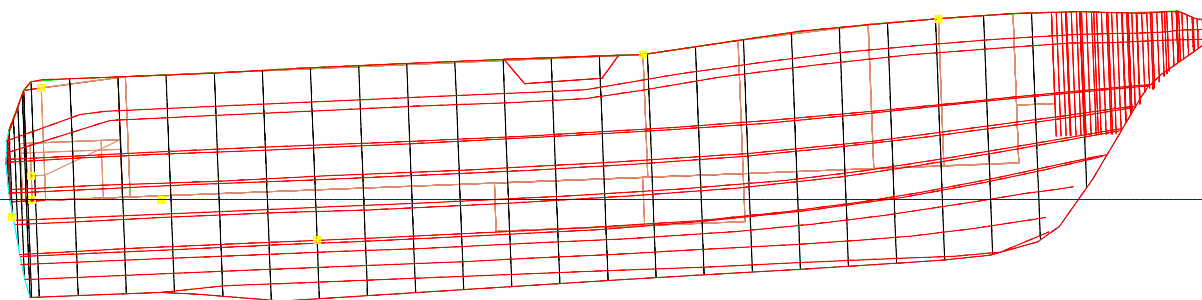
## WEIGHT SUMMARY

Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Vann i lasterom : 0.4 MT  
 Total DEADWEIGHT : 1.2 MT

Displacement ..... : 2.615 MT  
 LCB (rel. AP) ..... : 1.964 m  
 VCB (rel. BL) ..... : 0.277 m  
 LCF (rel. AP) ..... : 2.359 m  
 TPC - Immersion ..... : 0.092 MT/cm  
 Trim Moment ..... : 0.029 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.884 m  
 Free Surface Correction: 0.111 m  
 GM (GZ derived) ..... : 0.489 m  
  
 KGmax, intact, calc. . : 99.990 m  
  
 Stability Margin ..... : 99.106 m  
 Stability Conclusion . : OK

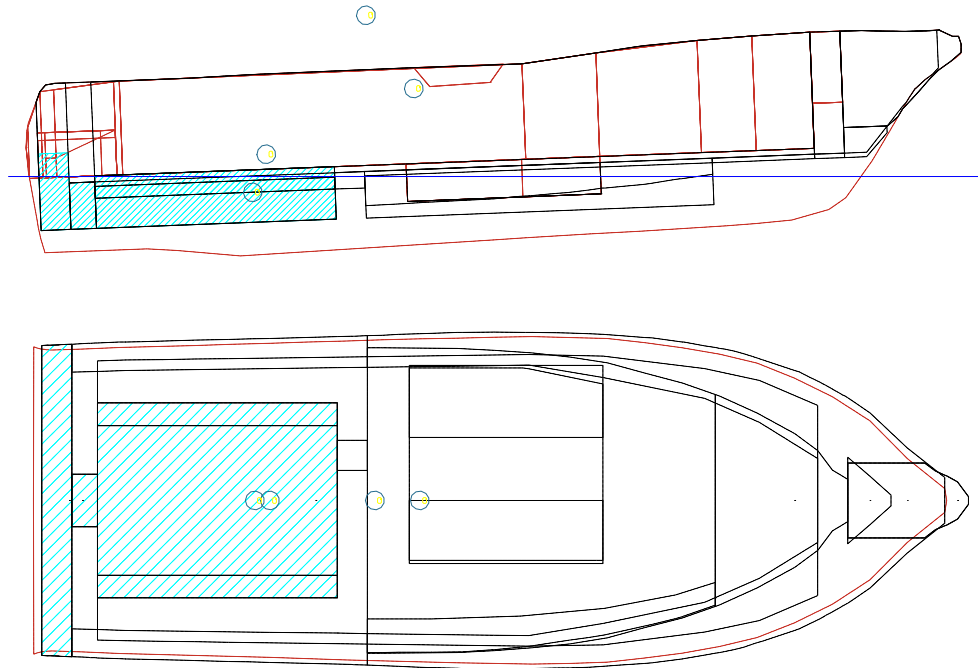


Water Density = 1.025 t/m3

## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

Loading Condition no. : 8  
 Condition Id. text : Fiskere jevnt fordelt - 0.4 t vann i "lasterom"



○ - UNIT LOADS



Water Ballast



Cargo



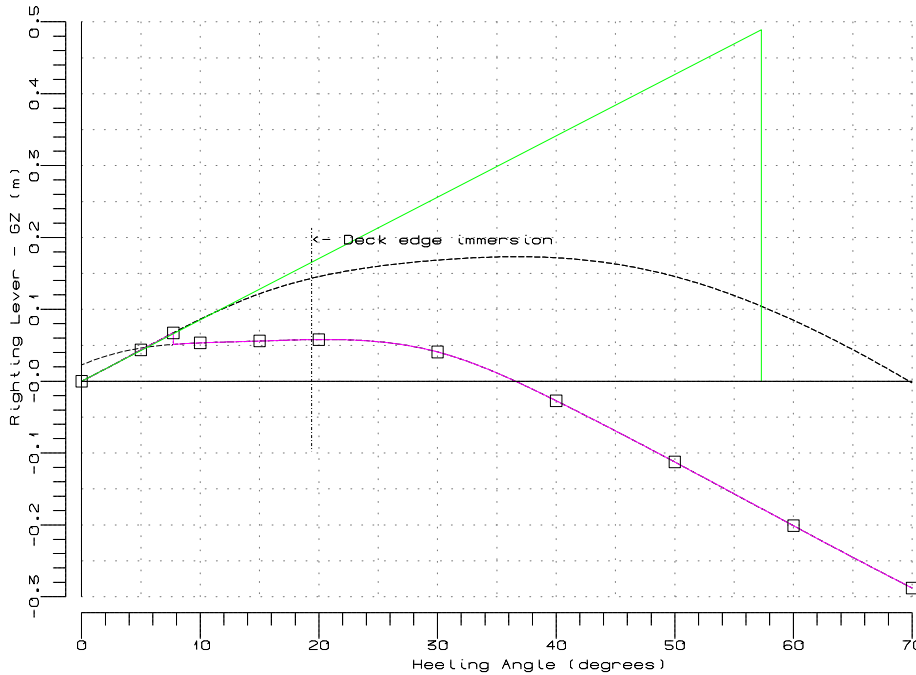
Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Vann i lasterom									
-	Lasterom	0.400	52.3	1.0250	-0.02	1.95	0.940	0.000	0.255	0.29
DEAD WEIGHT		1.188					1.665	0.000	0.900	0.29
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.615					1.983	0.000	0.773	0.29

Loading Condition no. : 8  
 Condition Id. text : Fiskere jevnt fordelt - 0.4 t vann i "lasterom"

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.043	0.0019
7.734	0.067	0.0045
10.000	0.053	0.0066
15.000	0.056	0.0114
20.000	0.058	0.0163
30.000	0.041	0.0256
40.000	-0.027	0.0273
50.000	-0.113	0.0152
60.000	-0.201	-0.0122
70.000	-0.288	-0.0549

Deck immersion : 19.375 °  
 Maximum GZ at : 7.734 °  
 Equilibrium at : 0.007 °  
 Area, 0 - 30 : 0.0256 m\*rad  
 Area, 0 - 40 : 0.0273 m\*rad  
 Area, 30 - 40 : 0.0017 m\*rad  
 Area, 0 - maxGZ : 0.0045 m\*rad  
 GM : 0.489 m

Heel to starboard side  
 Applied VCG : 0.884 m  
 TCG : 0.000 m

Please note !

-The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).

## Flood Opening Results

Loading Condition no. : 8 ,Fiskere jevnt fordelt - 0.4 t vann i "lasterom"

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	7.73	0.12
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.21
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.09
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	0.00
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	0.00
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	37.42	0.75
7	Rekke akter	Ref. point		0.1	0.9	1.08	24.30	0.58
8	Rekke forut	Ref. point		4.8	0.8	1.26	63.59	0.94
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	0.00	0.00

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*\*) Flooding angle is outside of specified heel range.



## Freeboard to Deck

-----  
 Loading Condition no. : 8 ,Fiskere jevnt fordelt - 0.4 t vann i "lasterom

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.356	0.356
2	-0.075	1.024	0.874	0.360	0.361
3	-0.050	1.017	0.933	0.421	0.421
4	-0.025	1.009	0.993	0.481	0.482
5	0.000	1.006	1.055	0.544	0.545
6	0.008	1.005	1.075	0.565	0.565
7	0.048	1.003	1.118	0.609	0.609
8	0.250	1.010	1.126	0.625	0.625
9	0.500	1.019	1.126	0.634	0.635
10	0.750	1.027	1.126	0.644	0.644
11	1.000	1.034	1.126	0.654	0.654
12	1.250	1.040	1.131	0.668	0.668
13	1.500	1.047	1.135	0.682	0.682
14	1.750	1.055	1.136	0.693	0.693
15	2.000	1.063	1.137	0.703	0.704
16	2.250	1.070	1.138	0.714	0.714
17	2.500	1.077	1.139	0.724	0.725
18	2.750	1.082	1.138	0.733	0.733
19	3.000	1.087	1.138	0.742	0.742
20	3.250	1.092	1.140	0.754	0.754
21	3.500	1.086	1.167	0.790	0.791
22	3.750	1.079	1.194	0.827	0.828
23	4.000	1.051	1.222	0.865	0.865
24	4.250	1.018	1.239	0.891	0.891
25	4.500	0.974	1.252	0.914	0.914
26	4.750	0.915	1.263	0.935	0.935
27	5.000	0.816	1.271	0.952	0.952
28	5.250	0.692	1.274	0.965	0.966
29	5.500	0.530	1.273	0.973	0.973
30	5.750	0.280	1.256	0.967	0.967
31	6.000	0.079	1.256	0.975	0.975
32	6.013	0.000	1.256	0.976	0.976

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 9

## Fiskere jevnt fordelt - 0.5 t vann i "lasterom"

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.412 m  
 Trim over Lpp (aft +) : 0.262 m  
 List (starboard +) ... : 0.032 °  
 Draught, AP (moulded) : 0.543 m  
 Draught, LCF (moulded) : 0.430 m  
 Draught, FP (moulded) : 0.281 m

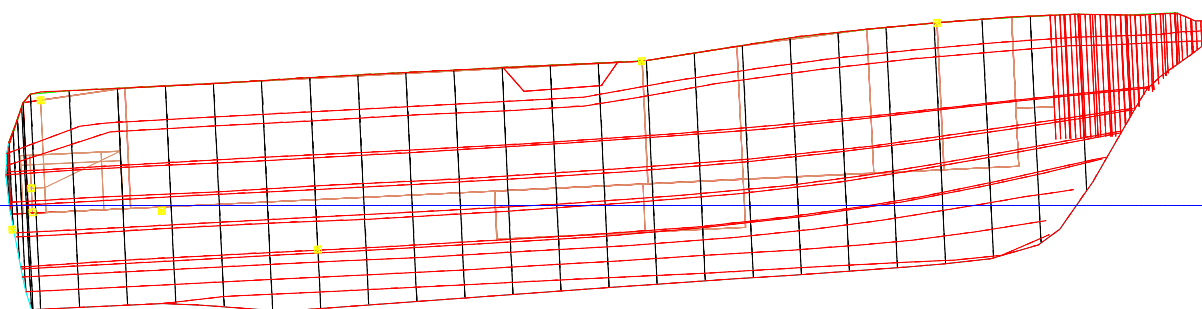
## WEIGHT SUMMARY

Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Vann i lasterom : 0.5 MT  
 Total DEADWEIGHT : 1.3 MT

Displacement ..... : 2.715 MT  
 LCB (rel. AP) ..... : 1.923 m  
 VCB (rel. BL) ..... : 0.284 m  
 LCF (rel. AP) ..... : 2.368 m  
 TPC - Immersion ..... : 0.091 MT/cm  
 Trim Moment ..... : 0.027 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.915 m  
 Free Surface Correction: 0.157 m  
 GM (GZ derived) ..... : 0.432 m  
  
 KGmax, intact, calc. . : 99.990 m  
  
 Stability Margin ..... : 99.075 m  
 Stability Conclusion . : OK

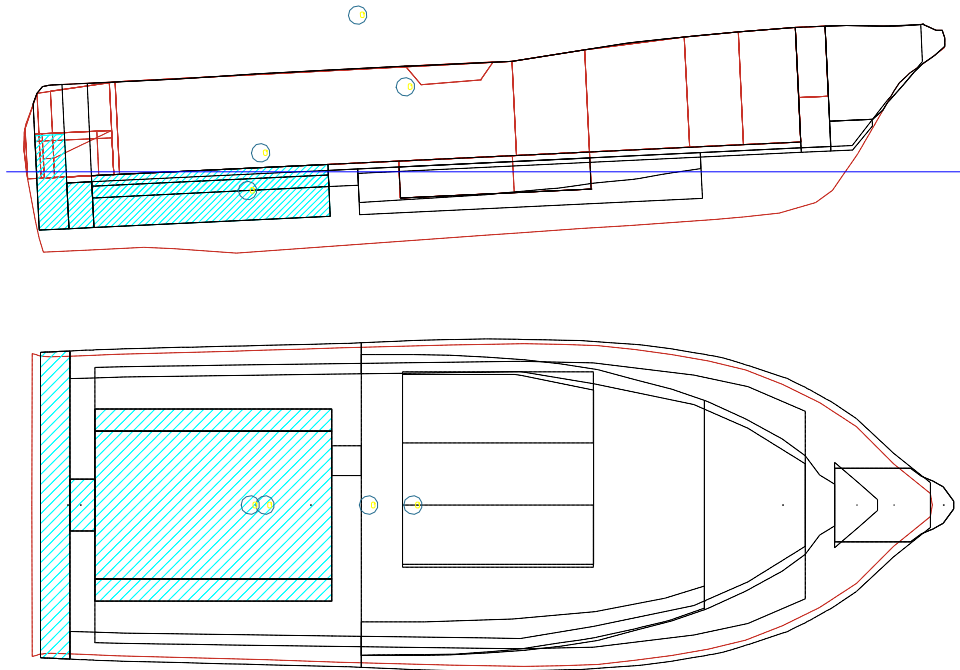


Water Density = 1.025 t/m3

## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

Loading Condition no. : 9  
 Condition Id. text : Fiskere jevnt fordelt - 0.5 t vann i "lasterom"



○ - UNIT LOADS



Water Ballast



Cargo



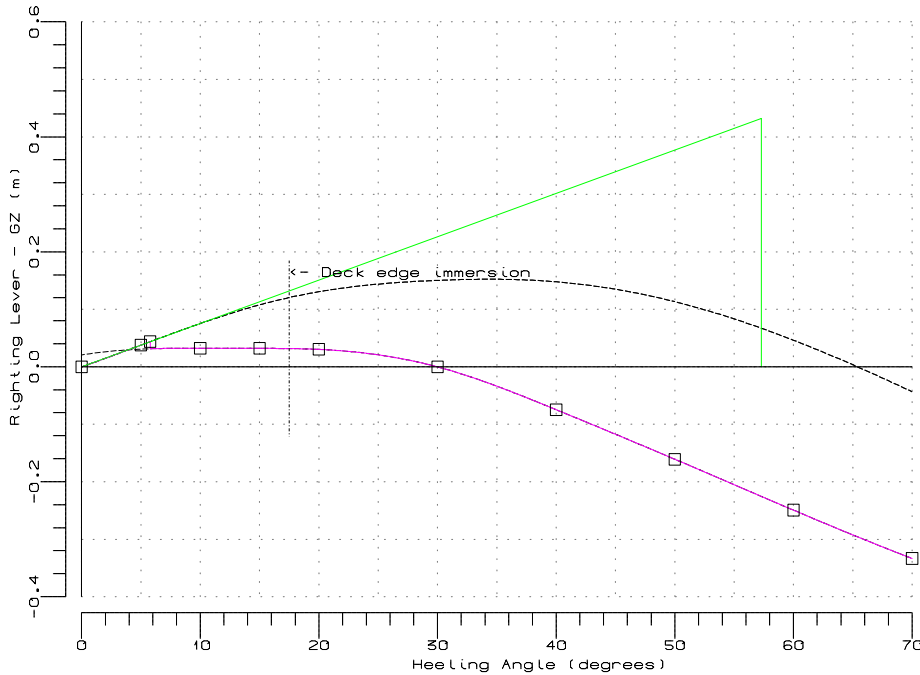
Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Vann i lasterom									
-	Lasterom	0.500	65.4	1.0250	-0.02	1.95	0.944	0.000	0.278	0.43
DEAD WEIGHT		1.288					1.610	0.000	0.859	0.43
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.715					1.946	0.000	0.758	0.43

Loading Condition no. : 9  
 Condition Id. text : Fiskere jevnt fordelt - 0.5 t vann i "lasterom"

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.038	0.0016
5.781	0.044	0.0022
10.000	0.032	0.0045
15.000	0.032	0.0074
20.000	0.030	0.0101
30.000	0.000	0.0134
40.000	-0.075	0.0073
50.000	-0.161	-0.0132
60.000	-0.249	-0.0490
70.000	-0.333	-0.0999

Deck immersion : 17.500 °  
 Maximum GZ at : 5.781 °  
 Equilibrium at : 0.032 °  
 Area, 0 - 30 : 0.0134 m\*rad  
 Area, 0 - 40 : 0.0073 m\*rad  
 Area, 30 - 40 : -0.0061 m\*rad  
 Area, 0 - maxGZ : 0.0022 m\*rad  
 GM : 0.432 m

Heel to starboard side  
 Applied VCG : 0.915 m  
 TCG : 0.000 m

Please note !

-The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).

## Flood Opening Results

Loading Condition no. : 9 ,Fiskere jevnt fordelt - 0.5 t vann i "lasterom"

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	5.78	0.09
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.23
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.13
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	-0.03
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	-0.03
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	36.41	0.75
7	Rekke akter	Ref. point		0.1	0.9	1.08	21.80	0.54
8	Rekke forut	Ref. point		4.8	0.8	1.26	65.16	0.95
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	0.00	-0.04

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 9 ,Fiskere jevnt fordelt - 0.5 t vann i "lasterom

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.322	0.322
2	-0.075	1.024	0.874	0.326	0.328
3	-0.050	1.017	0.933	0.387	0.388
4	-0.025	1.009	0.993	0.448	0.449
5	0.000	1.006	1.055	0.511	0.512
6	0.008	1.005	1.075	0.531	0.533
7	0.048	1.003	1.118	0.576	0.577
8	0.250	1.010	1.126	0.594	0.595
9	0.500	1.019	1.126	0.606	0.607
10	0.750	1.027	1.126	0.618	0.619
11	1.000	1.034	1.126	0.630	0.631
12	1.250	1.040	1.131	0.646	0.648
13	1.500	1.047	1.135	0.662	0.664
14	1.750	1.055	1.136	0.675	0.677
15	2.000	1.063	1.137	0.688	0.690
16	2.250	1.070	1.138	0.701	0.702
17	2.500	1.077	1.139	0.714	0.715
18	2.750	1.082	1.138	0.725	0.726
19	3.000	1.087	1.138	0.736	0.738
20	3.250	1.092	1.140	0.750	0.751
21	3.500	1.086	1.167	0.789	0.791
22	3.750	1.079	1.194	0.829	0.830
23	4.000	1.051	1.222	0.868	0.869
24	4.250	1.018	1.239	0.897	0.898
25	4.500	0.974	1.252	0.922	0.923
26	4.750	0.915	1.263	0.945	0.946
27	5.000	0.816	1.271	0.965	0.966
28	5.250	0.692	1.274	0.980	0.981
29	5.500	0.530	1.273	0.990	0.991
30	5.750	0.280	1.256	0.986	0.987
31	6.000	0.079	1.256	0.998	0.998
32	6.013	0.000	1.256	0.999	0.999

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 10

Fiskere jevnt fordelt - 0.1 t vann u/innerliner

FLOATING CONDITION DATA

Mean Draught (moulded) : 0.387 m  
 Trim over Lpp (aft +) : 0.044 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.409 m  
 Draught, LCF (moulded) : 0.390 m  
 Draught, FP (moulded) : 0.365 m

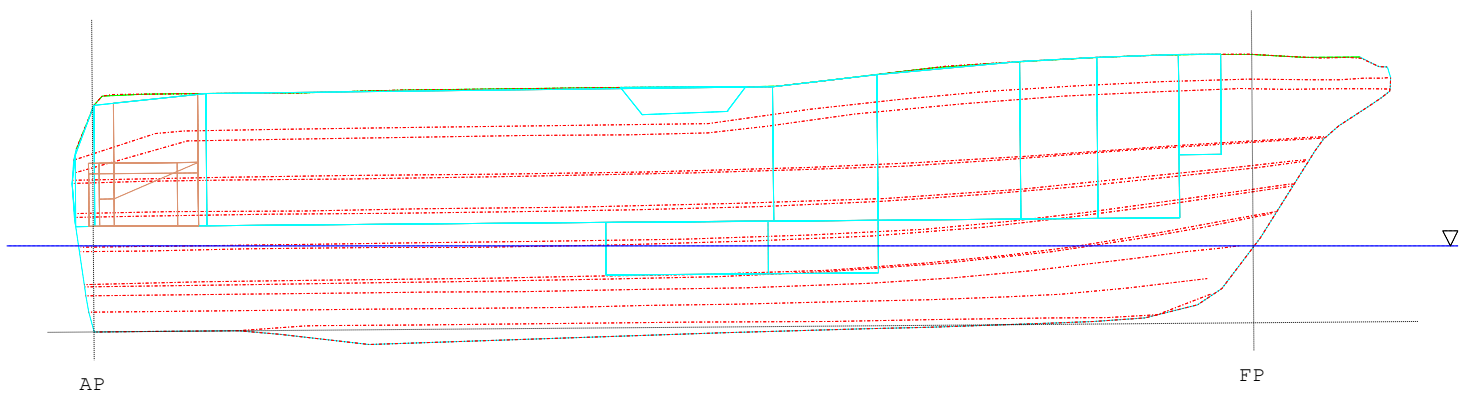
Displacement ..... : 2.315 MT  
 LCB (rel. AP) ..... : 2.170 m  
 VCB (rel. BL) ..... : 0.254 m  
 LCF (rel. AP) ..... : 2.319 m  
 TPC - Immersion ..... : 0.097 MT/cm  
 Trim Moment ..... : 0.034 MT\*m/cm

WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.1 MT  
 Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin \_\_\_\_\_ : 0.1 MT  
 Total DEADWEIGHT : 0.9 MT

STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.973 m  
 Free Surface Correction: 0.137 m  
 KM (metacentre) ..... : 1.492 m  
 GM (incl. FSC) ..... : 0.519 m

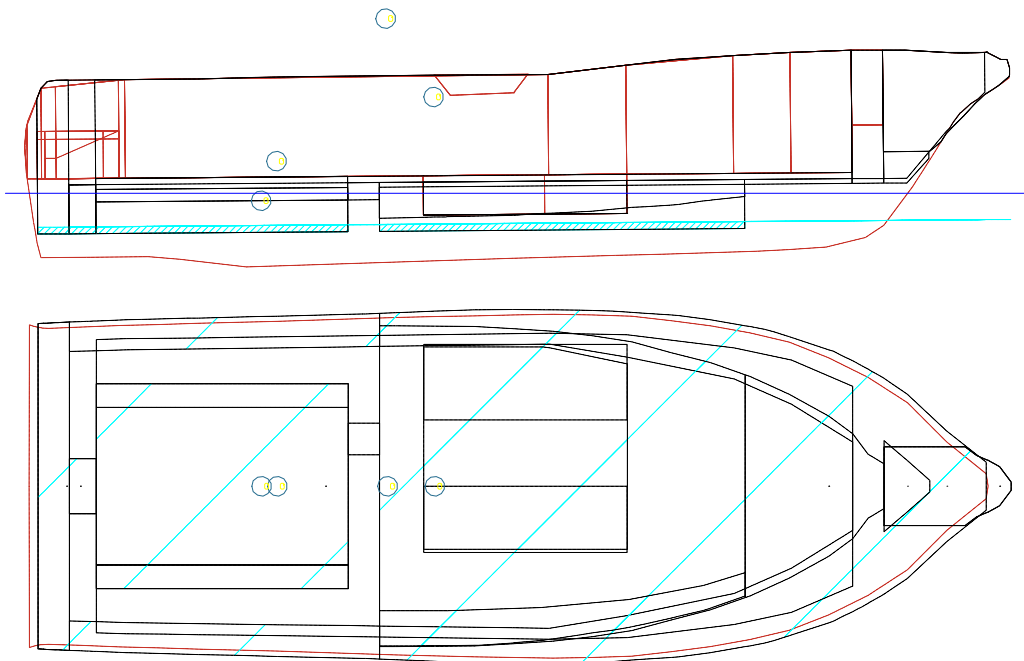


Water Density = 1.025 t/m3

Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 10  
 Condition Id. text : Fiskere jevnt fordelt - 0.1 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.100	3.8	1.0250	-0.02	6.16	2.244	0.000	0.164	0.32
DEAD WEIGHT		0.888					2.057	0.000	1.107	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.315					2.175	0.000	0.836	

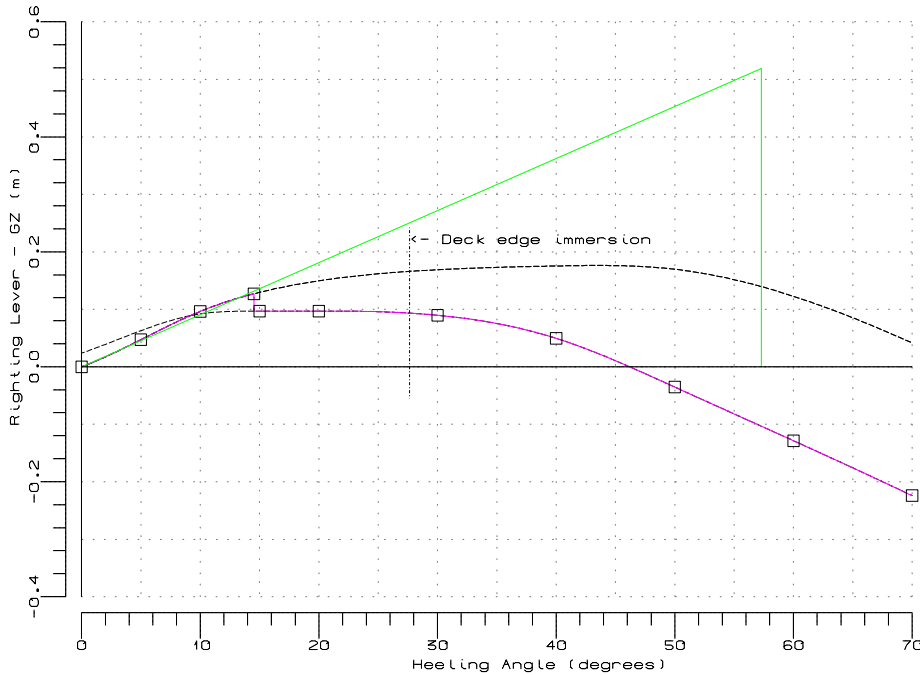
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- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 10  
 Condition Id. text : Fiskere jevnt fordelt - 0.1 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.047	0.0020
10.000	0.096	0.0083
14.531	0.127	0.0172
15.000	0.097	0.0180
20.000	0.097	0.0265
30.000	0.090	0.0430
40.000	0.049	0.0559
50.000	-0.035	0.0575
60.000	-0.129	0.0432
70.000	-0.224	0.0125

Deck immersion : 27.656 °  
 Maximum GZ at : 14.531 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0430 m\*rad  
 Area, 0 - 40 : 0.0559 m\*rad  
 Area, 30 - 40 : 0.0128 m\*rad  
 Area, 0 - maxGZ: 0.0172 m\*rad  
 GM : 0.519 m

Heel to starboard side  
 Applied VCG : 0.836 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	0.000	0.000
5.000	0.047	0.058
10.000	0.096	0.114
15.000	0.097	0.117
20.000	0.097	0.120
30.000	0.090	0.119
40.000	0.049	0.085
50.000	-0.035	0.002
60.000	-0.129	-0.092
70.000	-0.224	-0.190

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.011	0.001
10.000	0.017	0.001
15.000	0.021	0.002
20.000	0.023	0.003
30.000	0.030	0.007
40.000	0.037	0.011
50.000	0.039	0.016
60.000	0.041	0.018
70.000	0.041	0.021

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.100	1.025	2.456	0.000	0.165
5.000	0.100	1.025	2.275	0.264	0.176
10.000	0.100	1.025	2.062	0.409	0.195
15.000	0.100	1.025	1.894	0.484	0.212
20.000	0.100	1.025	1.832	0.536	0.229
30.000	0.100	1.025	1.600	0.704	0.315
40.000	0.100	1.025	1.248	0.846	0.428
50.000	0.100	1.025	0.890	0.913	0.524
60.000	0.100	1.025	0.707	0.938	0.587
70.000	0.100	1.025	0.592	0.952	0.647
Equilibrium:					
0.000	0.000	1.025	0.000	0.000	0.000

Vertical dist. betw. sea and comp. level at equilibrium : 0.000m

10. Fishermen uniformly distributed - 0,1 t water below innerliner

Flood Opening Results

Loading Condition no. : 10 ,Fiskere jevnt fordelt - 0.1 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	14.53	0.22
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.16
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	0.01
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.08
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	14.53	0.08
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	40.31	0.75
7	Rekke akter	Ref. point		0.1	0.9	1.08	33.83	0.68
8	Rekke forut	Ref. point		4.8	0.8	1.26	59.22	0.89
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	12.19	0.10

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 10 ,Fiskere jevnt fordelt - 0.1 t vann u/innerline

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.460	0.460
2	-0.075	1.024	0.874	0.465	0.465
3	-0.050	1.017	0.933	0.524	0.524
4	-0.025	1.009	0.993	0.584	0.584
5	0.000	1.006	1.055	0.646	0.646
6	0.008	1.005	1.075	0.666	0.666
7	0.048	1.003	1.118	0.710	0.710
8	0.250	1.010	1.126	0.719	0.719
9	0.500	1.019	1.126	0.721	0.721
10	0.750	1.027	1.126	0.723	0.723
11	1.000	1.034	1.126	0.726	0.726
12	1.250	1.040	1.131	0.732	0.732
13	1.500	1.047	1.135	0.738	0.738
14	1.750	1.055	1.136	0.741	0.741
15	2.000	1.063	1.137	0.745	0.745
16	2.250	1.070	1.138	0.747	0.747
17	2.500	1.077	1.139	0.750	0.750
18	2.750	1.082	1.138	0.752	0.752
19	3.000	1.087	1.138	0.753	0.753
20	3.250	1.092	1.140	0.757	0.757
21	3.500	1.086	1.167	0.786	0.786
22	3.750	1.079	1.194	0.815	0.815
23	4.000	1.051	1.222	0.845	0.845
24	4.250	1.018	1.239	0.864	0.864
25	4.500	0.974	1.252	0.879	0.879
26	4.750	0.915	1.263	0.893	0.893
27	5.000	0.816	1.271	0.902	0.902
28	5.250	0.692	1.274	0.908	0.908
29	5.500	0.530	1.273	0.908	0.908
30	5.750	0.280	1.256	0.894	0.894
31	6.000	0.079	1.256	0.895	0.895
32	6.013	0.000	1.256	0.895	0.895

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 11

Fiskere jevnt fordelt - 0.2 t vann u/innerliner

FLOATING CONDITION DATA

Mean Draught (moulded) : 0.397 m  
 Trim over Lpp (aft +) : 0.046 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.420 m  
 Draught, LCF (moulded) : 0.400 m  
 Draught, FP (moulded) : 0.374 m

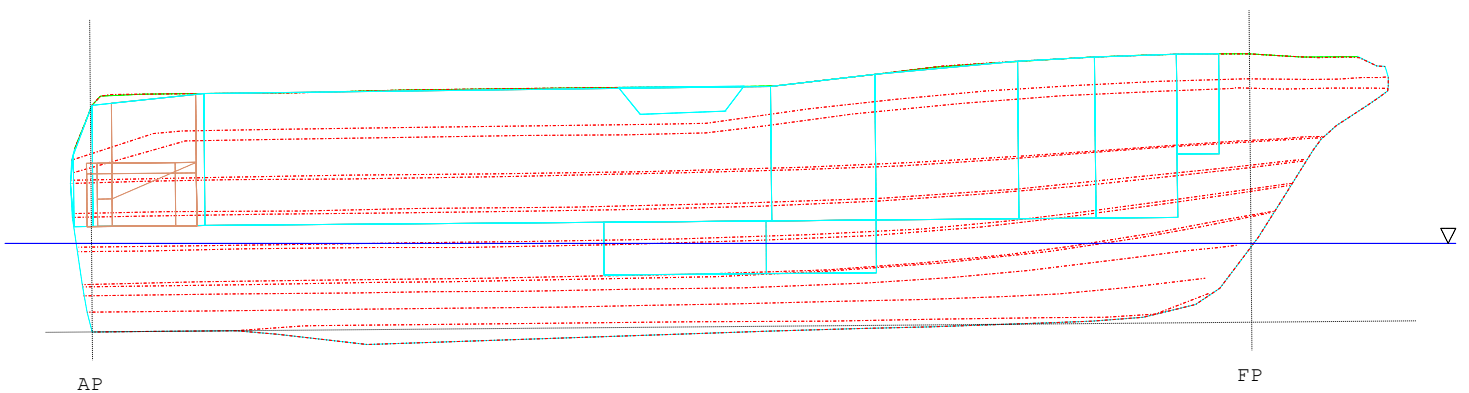
WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.2 MT  
 Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Total DEADWEIGHT : 1.0 MT

Displacement ..... : 2.415 MT  
 LCB (rel. AP) ..... : 2.173 m  
 VCB (rel. BL) ..... : 0.260 m  
 LCF (rel. AP) ..... : 2.331 m  
 TPC - Immersion ..... : 0.098 MT/cm  
 Trim Moment ..... : 0.035 MT\*m/cm

STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 1.007 m  
 Free Surface Correction: 0.198 m  
 KM (metacentre) ..... : 1.468 m  
 GM (incl. FSC) ..... : 0.461 m

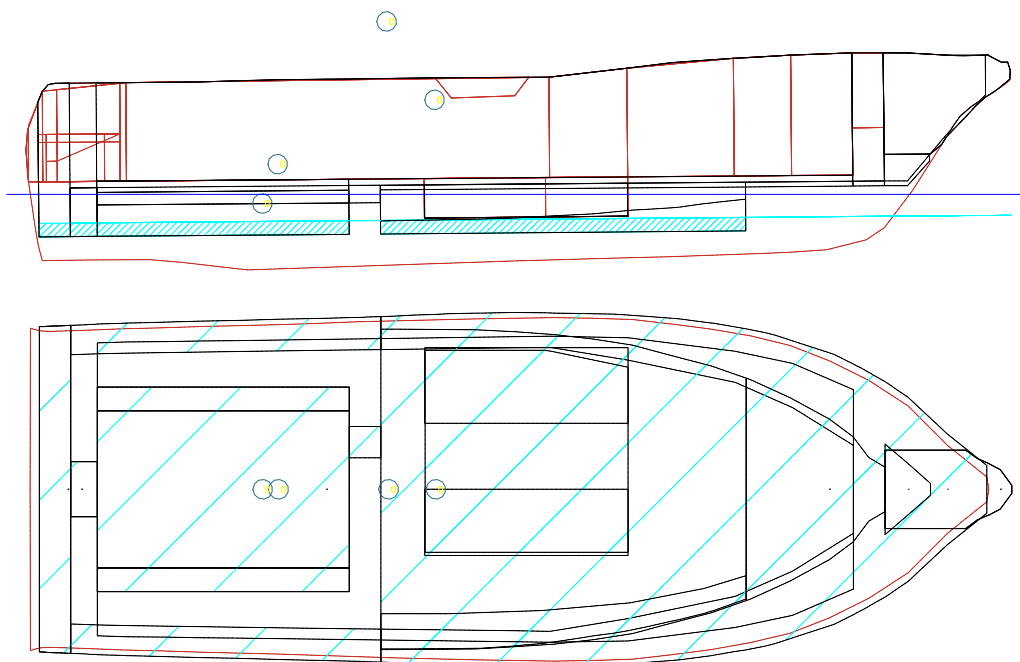


Water Density = 1.025 t/m3

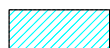
Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 11  
 Condition Id. text : Fiskere jevnt fordelt - 0.2 t vann u/innerliner



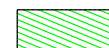
○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.200	7.7	1.0250	-0.02	6.16	2.249	0.000	0.176	0.48
DEAD WEIGHT		0.988					2.077	0.000	1.014	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.415					2.178	0.000	0.809	

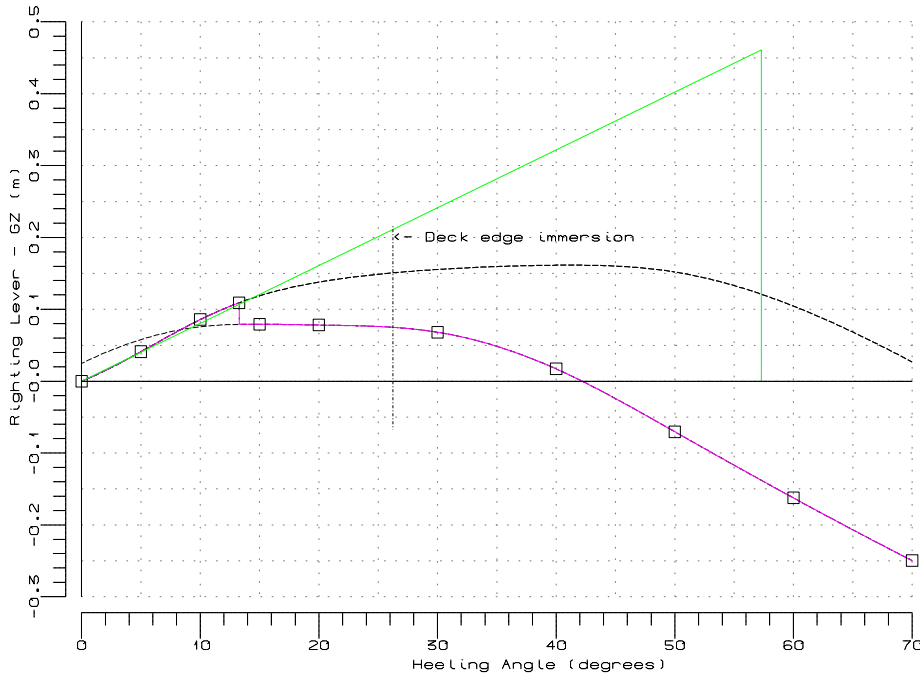
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- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.



Loading Condition no. : 11  
 Condition Id. text : Fiskere jevnt fordelt - 0.2 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.041	0.0017
10.000	0.086	0.0073
13.281	0.109	0.0129
15.000	0.079	0.0153
20.000	0.078	0.0221
30.000	0.068	0.0352
40.000	0.017	0.0434
50.000	-0.070	0.0390
60.000	-0.162	0.0186
70.000	-0.250	-0.0174

Deck immersion : 26.250 °  
 Maximum GZ at : 13.281 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0352 m\*rad  
 Area, 0 - 40 : 0.0434 m\*rad  
 Area, 30 - 40 : 0.0081 m\*rad  
 Area, 0 - maxGZ: 0.0129 m\*rad  
 GM : 0.461 m

Heel to starboard side  
 Applied VCG : 0.809 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	0.000	0.000
5.000	0.041	0.057
10.000	0.086	0.114
15.000	0.079	0.114
20.000	0.078	0.119
30.000	0.068	0.122
40.000	0.017	0.080
50.000	-0.070	0.000
60.000	-0.162	-0.091
70.000	-0.250	-0.182

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.016	0.001
10.000	0.028	0.002
15.000	0.035	0.004
20.000	0.041	0.006
30.000	0.055	0.013
40.000	0.065	0.021
50.000	0.072	0.031
60.000	0.077	0.039
70.000	0.078	0.043

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.200	1.025	2.375	0.000	0.178
5.000	0.200	1.025	2.289	0.201	0.187
10.000	0.200	1.025	2.156	0.346	0.205
15.000	0.200	1.025	2.029	0.422	0.223
20.000	0.200	1.025	1.888	0.498	0.249
30.000	0.200	1.025	1.657	0.664	0.333
40.000	0.200	1.025	1.345	0.782	0.433
50.000	0.200	1.025	1.108	0.872	0.549
60.000	0.200	1.025	0.991	0.925	0.645
70.000	0.200	1.025	0.980	0.947	0.694
Equilibrium:					
0.000	0.000	1.025	0.000	0.000	0.000

Vertical dist. betw. sea and comp. level at equilibrium : 0.000m

11. Fishermen uniformly distributed - 0,2 t water below innerliner

Flood Opening Results

-----

Loading Condition no. : 11 ,Fiskere jevnt fordelt - 0.2 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	13.28	0.21
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.17
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	0.00
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	60.31	0.07
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	13.28	0.07
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	39.06	0.74
7	Rekke akter	Ref. point		0.1	0.9	1.08	31.64	0.67
8	Rekke forut	Ref. point		4.8	0.8	1.26	59.84	0.88
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	10.00	0.09

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 11 ,Fiskere jevnt fordelt - 0.2 t vann u/innerline

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.449	0.449
2	-0.075	1.024	0.874	0.453	0.453
3	-0.050	1.017	0.933	0.513	0.513
4	-0.025	1.009	0.993	0.573	0.573
5	0.000	1.006	1.055	0.635	0.635
6	0.008	1.005	1.075	0.655	0.655
7	0.048	1.003	1.118	0.699	0.699
8	0.250	1.010	1.126	0.708	0.708
9	0.500	1.019	1.126	0.710	0.710
10	0.750	1.027	1.126	0.712	0.712
11	1.000	1.034	1.126	0.715	0.715
12	1.250	1.040	1.131	0.722	0.722
13	1.500	1.047	1.135	0.728	0.728
14	1.750	1.055	1.136	0.731	0.731
15	2.000	1.063	1.137	0.734	0.734
16	2.250	1.070	1.138	0.737	0.737
17	2.500	1.077	1.139	0.740	0.740
18	2.750	1.082	1.138	0.742	0.742
19	3.000	1.087	1.138	0.743	0.743
20	3.250	1.092	1.140	0.747	0.747
21	3.500	1.086	1.167	0.776	0.776
22	3.750	1.079	1.194	0.806	0.806
23	4.000	1.051	1.222	0.836	0.836
24	4.250	1.018	1.239	0.854	0.854
25	4.500	0.974	1.252	0.870	0.870
26	4.750	0.915	1.263	0.883	0.883
27	5.000	0.816	1.271	0.893	0.893
28	5.250	0.692	1.274	0.899	0.899
29	5.500	0.530	1.273	0.899	0.899
30	5.750	0.280	1.256	0.885	0.885
31	6.000	0.079	1.256	0.886	0.886
32	6.013	0.000	1.256	0.887	0.887

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 12

Fiskere jevnt fordelt - 0.3 t vann u/innerliner

FLOATING CONDITION DATA

Mean Draught (moulded) : 0.407 m  
 Trim over Lpp (aft +) : 0.048 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.431 m  
 Draught, LCF (moulded) : 0.410 m  
 Draught, FP (moulded) : 0.383 m

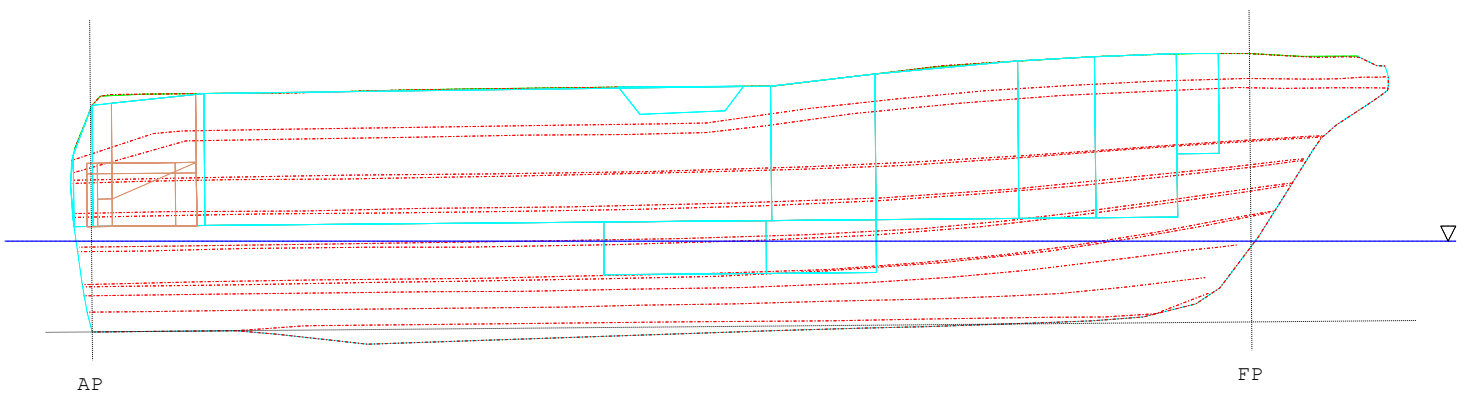
WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.3 MT  
 Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Total DEADWEIGHT : 1.1 MT

Displacement ..... : 2.515 MT  
 LCB (rel. AP) ..... : 2.177 m  
 VCB (rel. BL) ..... : 0.266 m  
 LCF (rel. AP) ..... : 2.339 m  
 TPC - Immersion ..... : 0.098 MT/cm  
 Trim Moment ..... : 0.035 MT\*m/cm

STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 1.039 m  
 Free Surface Correction: 0.254 m  
 KM (metacentre) ..... : 1.442 m  
 GM (incl. FSC) ..... : 0.403 m

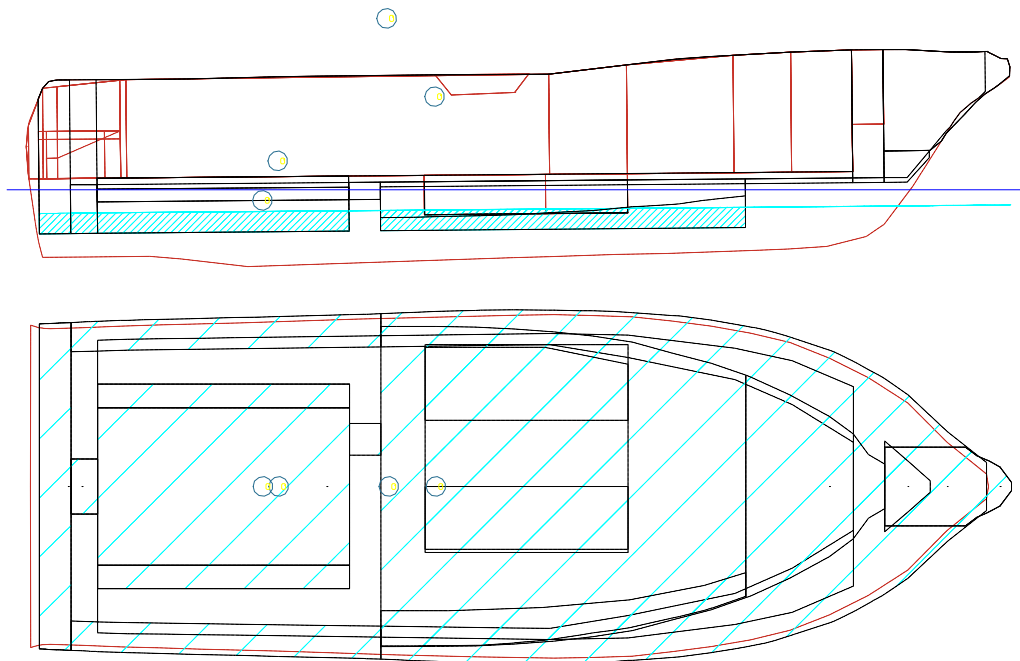


Water Density = 1.025 t/m3

Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 12  
 Condition Id. text : Fiskere jevnt fordelt - 0.3 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

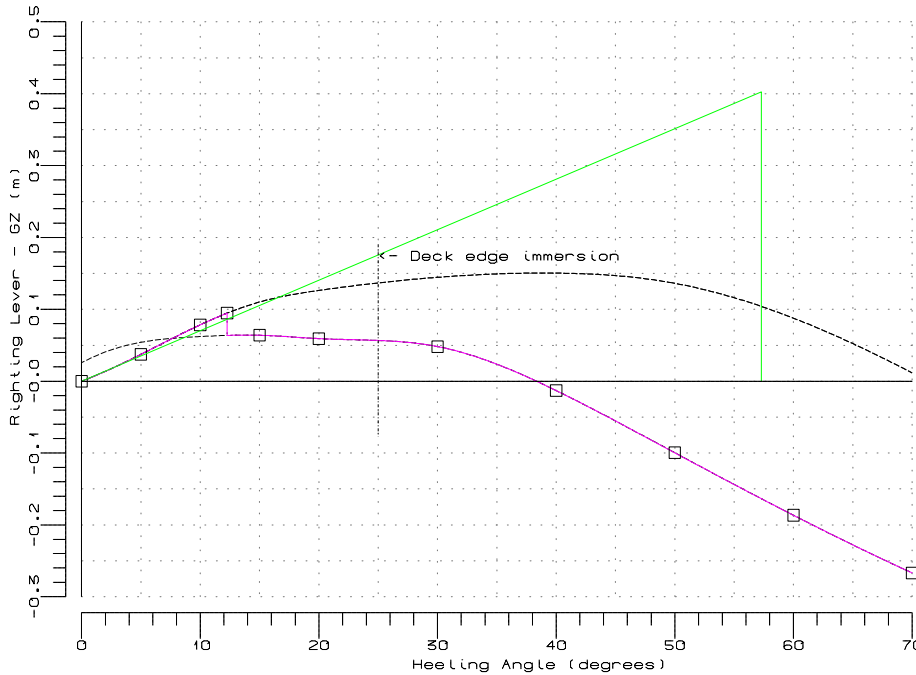
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.300	11.5	1.0250	-0.02	6.16	2.254	0.000	0.189	0.64
DEAD WEIGHT		1.088					2.094	0.000	0.941	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.515					2.181	0.000	0.785	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 12  
 Condition Id. text : Fiskere jevnt fordelt - 0.3 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.037	0.0016
10.000	0.078	0.0066
12.266	0.095	0.0101
15.000	0.064	0.0131
20.000	0.059	0.0185
30.000	0.048	0.0282
40.000	-0.013	0.0320
50.000	-0.100	0.0223
60.000	-0.187	-0.0028
70.000	-0.267	-0.0425

Deck immersion : 25.000 °  
 Maximum GZ at : 12.266 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0282 m\*rad  
 Area, 0 - 40 : 0.0320 m\*rad  
 Area, 30 - 40 : 0.0038 m\*rad  
 Area, 0 - maxGZ : 0.0101 m\*rad  
 GM : 0.403 m

Heel to starboard side  
 Applied VCG : 0.785 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)



## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	0.000	0.000
5.000	0.037	0.057
10.000	0.078	0.113
15.000	0.064	0.109
20.000	0.059	0.117
30.000	0.048	0.122
40.000	-0.013	0.073
50.000	-0.100	-0.004
60.000	-0.187	-0.089
70.000	-0.267	-0.173

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.001
5.000	0.019	0.001
10.000	0.034	0.003
15.000	0.046	0.005
20.000	0.057	0.010
30.000	0.075	0.019
40.000	0.087	0.030
50.000	0.098	0.043
60.000	0.105	0.053
70.000	0.110	0.060

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.300	1.025	2.355	0.000	0.190
5.000	0.300	1.025	2.299	0.168	0.197
10.000	0.300	1.025	2.205	0.296	0.214
15.000	0.300	1.025	2.047	0.383	0.234
20.000	0.300	1.025	1.858	0.482	0.269
30.000	0.300	1.025	1.656	0.629	0.344
40.000	0.300	1.025	1.362	0.733	0.439
50.000	0.300	1.025	1.203	0.819	0.546
60.000	0.300	1.025	1.203	0.878	0.629
70.000	0.300	1.025	1.296	0.922	0.689
Equilibrium:					
0.000	0.000	1.025	0.000	0.000	0.000

Vertical dist. betw. sea and comp. level at equilibrium : 0.000m

12. Fishermen uniformly distributed - 0,3 t water below innerliner

## Flood Opening Results

Loading Condition no. : 12 ,Fiskere jevnt fordelt - 0.3 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	12.27	0.20
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.18
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.01
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	45.94	0.06
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	10.94	0.06
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	37.97	0.73
7	Rekke akter	Ref. point		0.1	0.9	1.08	29.69	0.65
8	Rekke forut	Ref. point		4.8	0.8	1.26	59.69	0.87
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	8.12	0.07

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 12 ,Fiskere jevnt fordelt - 0.3 t vann u/innerline

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.437	0.437
2	-0.075	1.024	0.874	0.442	0.442
3	-0.050	1.017	0.933	0.502	0.502
4	-0.025	1.009	0.993	0.562	0.562
5	0.000	1.006	1.055	0.624	0.624
6	0.008	1.005	1.075	0.644	0.644
7	0.048	1.003	1.118	0.687	0.687
8	0.250	1.010	1.126	0.697	0.697
9	0.500	1.019	1.126	0.699	0.699
10	0.750	1.027	1.126	0.702	0.702
11	1.000	1.034	1.126	0.704	0.704
12	1.250	1.040	1.131	0.711	0.711
13	1.500	1.047	1.135	0.717	0.717
14	1.750	1.055	1.136	0.721	0.721
15	2.000	1.063	1.137	0.724	0.724
16	2.250	1.070	1.138	0.727	0.727
17	2.500	1.077	1.139	0.730	0.730
18	2.750	1.082	1.138	0.731	0.731
19	3.000	1.087	1.138	0.733	0.733
20	3.250	1.092	1.140	0.737	0.737
21	3.500	1.086	1.167	0.766	0.766
22	3.750	1.079	1.194	0.796	0.796
23	4.000	1.051	1.222	0.826	0.826
24	4.250	1.018	1.239	0.845	0.845
25	4.500	0.974	1.252	0.860	0.860
26	4.750	0.915	1.263	0.874	0.874
27	5.000	0.816	1.271	0.883	0.883
28	5.250	0.692	1.274	0.889	0.889
29	5.500	0.530	1.273	0.890	0.890
30	5.750	0.280	1.256	0.876	0.876
31	6.000	0.079	1.256	0.877	0.877
32	6.013	0.000	1.256	0.878	0.878

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 13

Fiskere jevnt fordelt - 0.4 t vann u/innerliner

FLOATING CONDITION DATA

Mean Draught (moulded) : 0.417 m  
 Trim over Lpp (aft +) : 0.050 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.442 m  
 Draught, LCF (moulded) : 0.420 m  
 Draught, FP (moulded) : 0.392 m

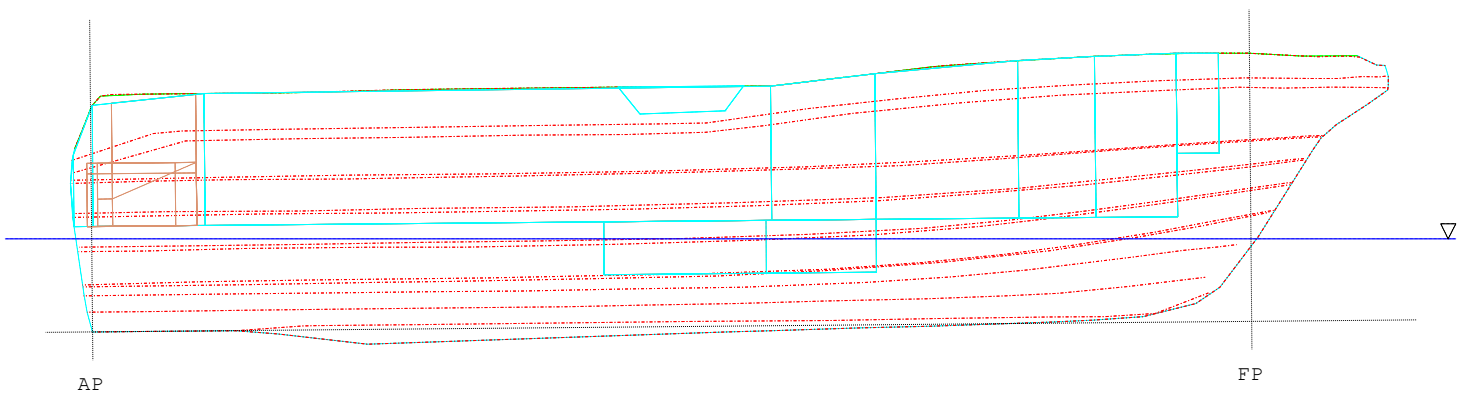
Displacement ..... : 2.614 MT  
 LCB (rel. AP) ..... : 2.180 m  
 VCB (rel. BL) ..... : 0.271 m  
 LCF (rel. AP) ..... : 2.344 m  
 TPC - Immersion ..... : 0.099 MT/cm  
 Trim Moment ..... : 0.035 MT\*m/cm

WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.4 MT  
 Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin \_\_\_\_\_ : 0.1 MT  
 Total DEADWEIGHT : 1.2 MT

STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 1.070 m  
 Free Surface Correction: 0.305 m  
 KM (metacentre) ..... : 1.416 m  
 GM (incl. FSC) ..... : 0.346 m

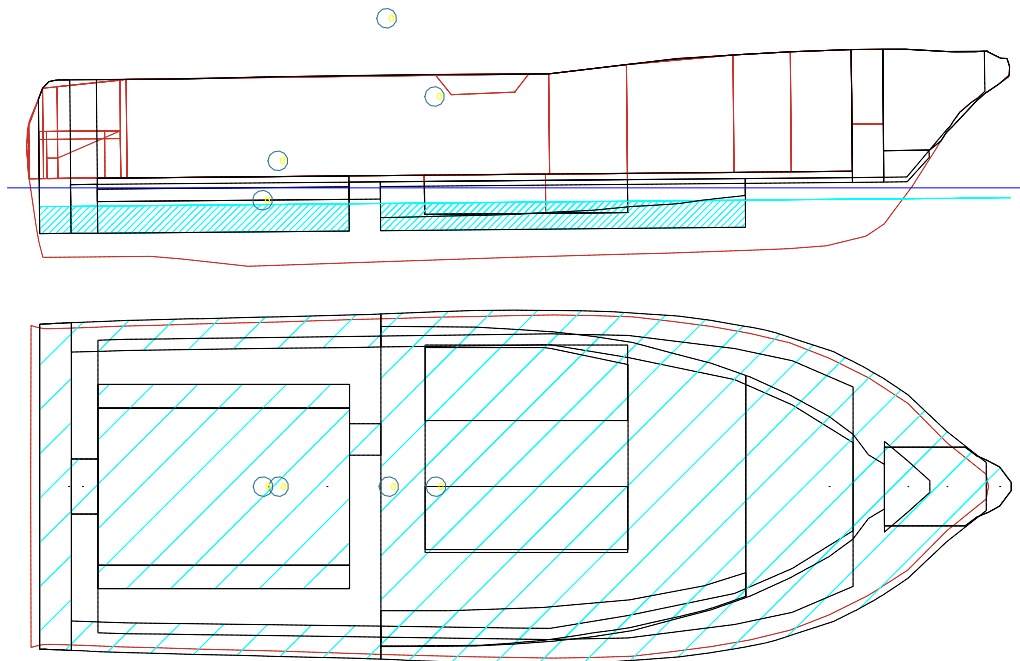


Water Density = 1.025 t/m3

Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 13  
 Condition Id. text : Fiskere jevnt fordelt - 0.4 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

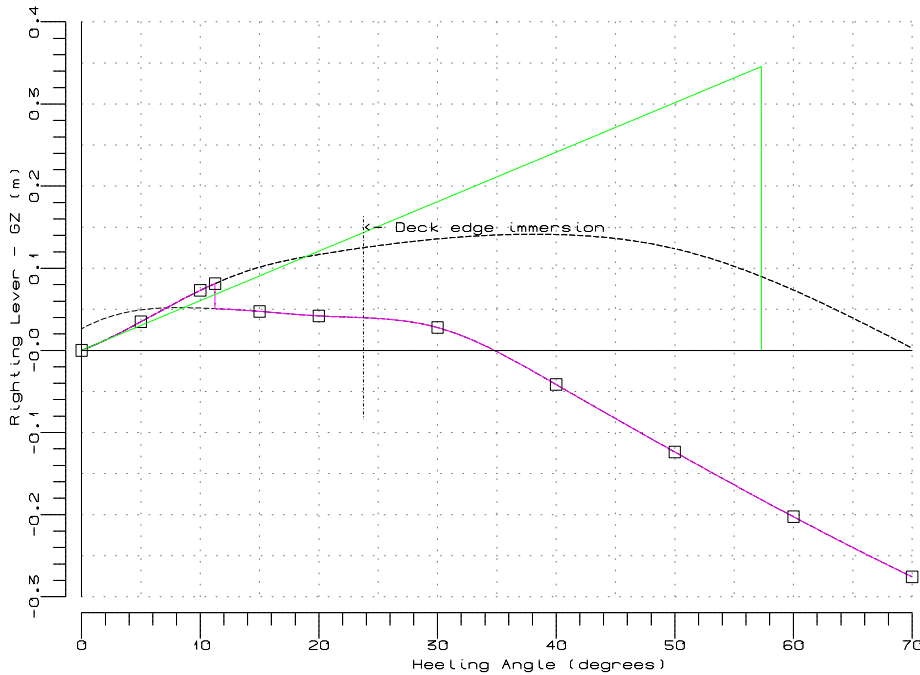
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.400	15.3	1.0250	-0.02	6.16	2.259	0.000	0.201	0.80
DEAD WEIGHT		1.188					2.109	0.000	0.882	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.615					2.185	0.000	0.765	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 13  
 Condition Id. text : Fiskere jevnt fordelt - 0.4 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.035	0.0014
10.000	0.073	0.0062
11.250	0.081	0.0079
15.000	0.048	0.0111
20.000	0.042	0.0150
30.000	0.028	0.0215
40.000	-0.042	0.0210
50.000	-0.124	0.0065
60.000	-0.203	-0.0220
70.000	-0.276	-0.0639

Deck immersion : 23.750 °  
 Maximum GZ at : 11.250 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0215 m\*rad  
 Area, 0 - 40 : 0.0210 m\*rad  
 Area, 30 - 40 : -0.0006 m\*rad  
 Area, 0 - maxGZ: 0.0079 m\*rad  
 GM : 0.346 m

Heel to starboard side  
 Applied VCG : 0.765 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	0.000	0.000
5.000	0.035	0.056
10.000	0.073	0.112
15.000	0.048	0.103
20.000	0.042	0.113
30.000	0.028	0.118
40.000	-0.042	0.063
50.000	-0.124	-0.010
60.000	-0.203	-0.087
70.000	-0.276	-0.165

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.021	0.001
10.000	0.039	0.004
15.000	0.056	0.007
20.000	0.071	0.013
30.000	0.091	0.023
40.000	0.105	0.037
50.000	0.117	0.051
60.000	0.126	0.061
70.000	0.133	0.069

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.400	1.025	2.352	0.000	0.201
5.000	0.400	1.025	2.292	0.143	0.207
10.000	0.400	1.025	2.216	0.256	0.222
15.000	0.400	1.025	2.000	0.365	0.249
20.000	0.400	1.025	1.828	0.462	0.283
30.000	0.400	1.025	1.627	0.595	0.354
40.000	0.400	1.025	1.352	0.688	0.444
50.000	0.400	1.025	1.274	0.765	0.533
60.000	0.400	1.025	1.335	0.823	0.598
70.000	0.400	1.025	1.466	0.873	0.654
Equilibrium:					
0.000	0.000	1.025	0.000	0.000	0.000

Vertical dist. betw. sea and comp. level at equilibrium : 0.000m

13. Fishermen uniformly distributed - 0,4 t water below innerliner



## Flood Opening Results

Loading Condition no. : 13 ,Fiskere jevnt fordelt - 0.4 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	11.25	0.19
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.19
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.02
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	35.31	0.04
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	7.81	0.04
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	36.80	0.72
7	Rekke akter	Ref. point		0.1	0.9	1.08	27.66	0.64
8	Rekke forut	Ref. point		4.8	0.8	1.26	59.06	0.87
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	6.56	0.06

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 13 ,Fiskere jevnt fordelt - 0.4 t vann u/innerline

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.427	0.427
2	-0.075	1.024	0.874	0.431	0.431
3	-0.050	1.017	0.933	0.491	0.491
4	-0.025	1.009	0.993	0.551	0.551
5	0.000	1.006	1.055	0.613	0.613
6	0.008	1.005	1.075	0.633	0.633
7	0.048	1.003	1.118	0.677	0.677
8	0.250	1.010	1.126	0.687	0.687
9	0.500	1.019	1.126	0.689	0.689
10	0.750	1.027	1.126	0.691	0.691
11	1.000	1.034	1.126	0.694	0.694
12	1.250	1.040	1.131	0.701	0.701
13	1.500	1.047	1.135	0.707	0.707
14	1.750	1.055	1.136	0.710	0.710
15	2.000	1.063	1.137	0.714	0.714
16	2.250	1.070	1.138	0.717	0.717
17	2.500	1.077	1.139	0.720	0.720
18	2.750	1.082	1.138	0.722	0.722
19	3.000	1.087	1.138	0.723	0.723
20	3.250	1.092	1.140	0.727	0.727
21	3.500	1.086	1.167	0.757	0.757
22	3.750	1.079	1.194	0.786	0.786
23	4.000	1.051	1.222	0.816	0.816
24	4.250	1.018	1.239	0.835	0.835
25	4.500	0.974	1.252	0.851	0.851
26	4.750	0.915	1.263	0.865	0.865
27	5.000	0.816	1.271	0.874	0.874
28	5.250	0.692	1.274	0.880	0.880
29	5.500	0.530	1.273	0.881	0.881
30	5.750	0.280	1.256	0.867	0.867
31	6.000	0.079	1.256	0.868	0.868
32	6.013	0.000	1.256	0.869	0.869

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 14

## Fiskere jevnt fordelt - 0.5 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.424 m  
 Trim over Lpp (aft +) : 0.092 m  
 List (starboard +) ... : 0.003 °  
 Draught, AP (moulded) : 0.470 m  
 Draught, LCF (moulded) : 0.431 m  
 Draught, FP (moulded) : 0.378 m

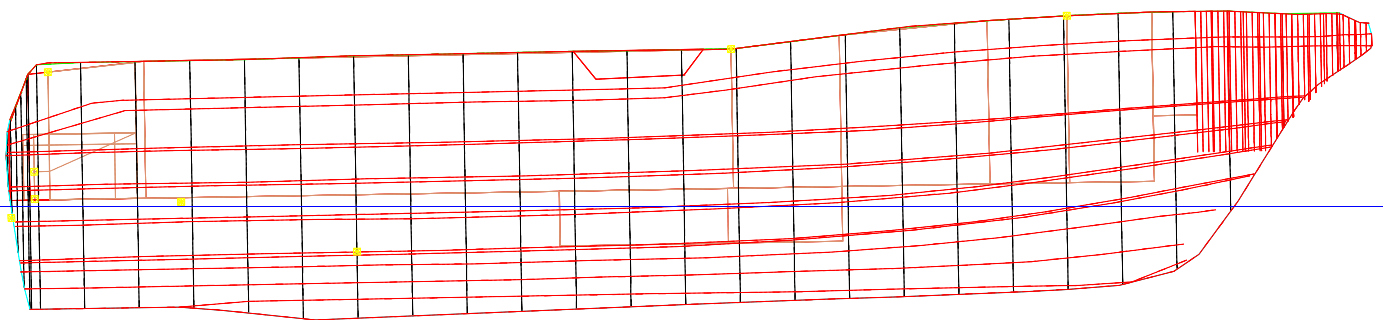
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.5 MT  
 Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Total DEADWEIGHT : 1.3 MT

Displacement ..... : 2.715 MT  
 LCB (rel. AP) ..... : 2.130 m  
 VCB (rel. BL) ..... : 0.278 m  
 LCF (rel. AP) ..... : 2.342 m  
 TPC - Immersion ..... : 0.099 MT/cm  
 Trim Moment ..... : 0.035 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 1.002 m  
 Free Surface Correction: 0.256 m  
 GM (GZ derived) ..... : 0.385 m

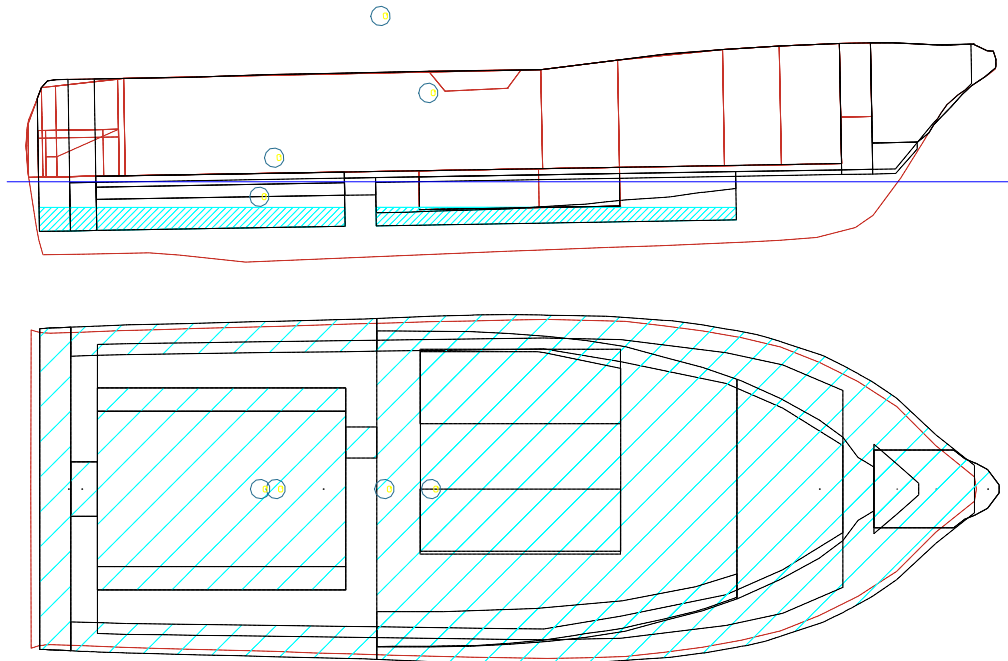


Water Density = 1.025 t/m3

## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 14  
 Condition Id. text : Fiskere jevnt fordelt - 0.5 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

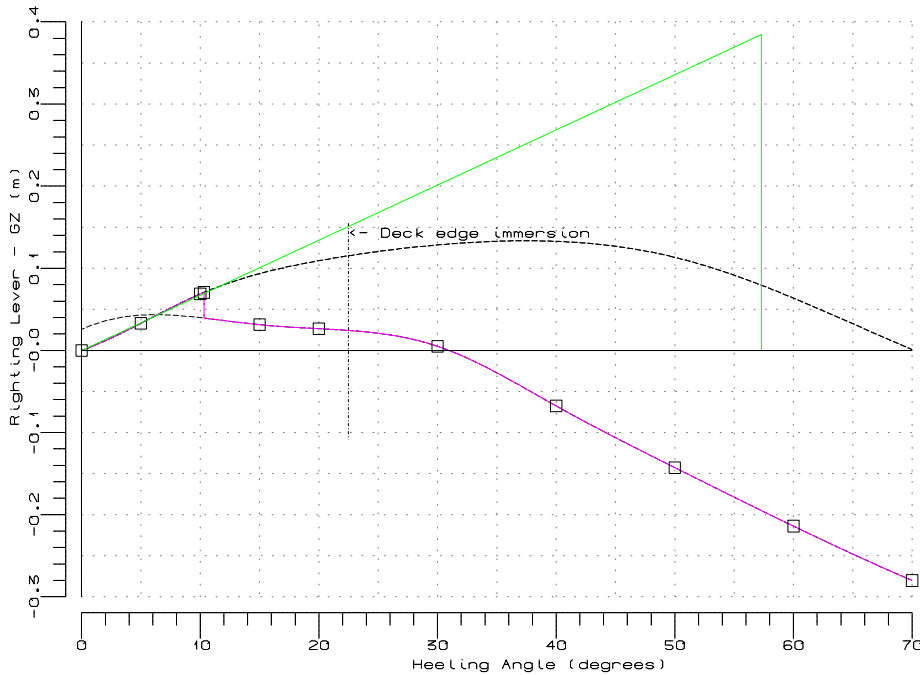
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.500	19.2	1.0250	-0.02	6.16	1.987	0.000	0.214	0.69
DEAD WEIGHT		1.288					2.015	0.000	0.834	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.715					2.138	0.000	0.746	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 14  
 Condition Id. text : Fiskere jevnt fordelt - 0.5 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.033	0.0014
10.000	0.069	0.0058
10.312	0.071	0.0062
15.000	0.031	0.0091
20.000	0.026	0.0116
30.000	0.005	0.0149
40.000	-0.068	0.0099
50.000	-0.143	-0.0086
60.000	-0.214	-0.0397
70.000	-0.280	-0.0830

Deck immersion : 22.500 °  
 Maximum GZ at : 10.312 °  
 Equilibrium at : 0.003 °  
 Area, 0 - 30 : 0.0149 m\*rad  
 Area, 0 - 40 : 0.0099 m\*rad  
 Area, 30 - 40 : -0.0050 m\*rad  
 Area, 0 - maxGZ : 0.0062 m\*rad  
 GM : 0.385 m

Heel to starboard side  
 Applied VCG : 0.746 m  
 TCG : 0.001 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

FREE SURFACE EFFECTS ON GZ-VALUES

-----

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	0.000	-0.001
5.000	0.033	0.055
10.000	0.069	0.110
15.000	0.031	0.095
20.000	0.026	0.107
30.000	0.005	0.108
40.000	-0.068	0.051
50.000	-0.143	-0.015
60.000	-0.214	-0.086
70.000	-0.280	-0.159

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

-----

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	-0.001	0.000
5.000	0.021	0.001
10.000	0.041	0.004
15.000	0.064	0.009
20.000	0.080	0.015
30.000	0.102	0.028
40.000	0.118	0.043
50.000	0.131	0.056
60.000	0.141	0.066
70.000	0.150	0.075

Compartment no. 2 Id. text : Indre volum

-----

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.500	1.025	2.272	0.007	0.212
5.000	0.500	1.025	2.269	0.123	0.218
10.000	0.500	1.025	2.181	0.228	0.232
15.000	0.500	1.025	1.950	0.349	0.261
20.000	0.500	1.025	1.801	0.438	0.294
30.000	0.500	1.025	1.558	0.560	0.364
40.000	0.500	1.025	1.345	0.645	0.448
50.000	0.500	1.025	1.339	0.715	0.518
60.000	0.500	1.025	1.423	0.769	0.571
70.000	0.500	1.025	1.565	0.819	0.618

Equilibrium:

0.003	0.500	1.025	1.987	0.000	0.214
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Vertical dist. betw. sea and comp. level at equilibrium : 0.165m

14. Fishermen uniformly distributed - 0,5 t water below innerliner

## Flood Opening Results

Loading Condition no. : 14 ,Fiskere jevnt fordelt - 0.5 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	10.31	0.16
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.20
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.05
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	22.50	0.02
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	5.00	0.02
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	35.70	0.72
7	Rekke akter	Ref. point		0.1	0.9	1.08	25.47	0.62
8	Rekke forut	Ref. point		4.8	0.8	1.26	58.36	0.87
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	4.69	0.04

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.



## Freeboard to Deck

-----  
 Loading Condition no. : 14 ,Fiskere jevnt fordelt - 0.5 t vann u/innerline

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.398	0.398
2	-0.075	1.024	0.874	0.402	0.402
3	-0.050	1.017	0.933	0.462	0.462
4	-0.025	1.009	0.993	0.522	0.522
5	0.000	1.006	1.055	0.585	0.585
6	0.008	1.005	1.075	0.605	0.605
7	0.048	1.003	1.118	0.649	0.649
8	0.250	1.010	1.126	0.660	0.660
9	0.500	1.019	1.126	0.664	0.664
10	0.750	1.027	1.126	0.668	0.669
11	1.000	1.034	1.126	0.673	0.673
12	1.250	1.040	1.131	0.682	0.682
13	1.500	1.047	1.135	0.690	0.690
14	1.750	1.055	1.136	0.695	0.696
15	2.000	1.063	1.137	0.701	0.701
16	2.250	1.070	1.138	0.706	0.706
17	2.500	1.077	1.139	0.711	0.711
18	2.750	1.082	1.138	0.714	0.714
19	3.000	1.087	1.138	0.718	0.718
20	3.250	1.092	1.140	0.724	0.724
21	3.500	1.086	1.167	0.755	0.756
22	3.750	1.079	1.194	0.787	0.787
23	4.000	1.051	1.222	0.819	0.819
24	4.250	1.018	1.239	0.840	0.840
25	4.500	0.974	1.252	0.857	0.857
26	4.750	0.915	1.263	0.873	0.873
27	5.000	0.816	1.271	0.885	0.885
28	5.250	0.692	1.274	0.893	0.893
29	5.500	0.530	1.273	0.895	0.895
30	5.750	0.280	1.256	0.883	0.883
31	6.000	0.079	1.256	0.886	0.886
32	6.013	0.000	1.256	0.887	0.887

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 15

## Fiskere jevnt fordelt - 0.6 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.433 m  
 Trim over Lpp (aft +) : 0.106 m  
 List (starboard +) ... : 0.146 °  
 Draught, AP (moulded) : 0.486 m  
 Draught, LCF (moulded) : 0.441 m  
 Draught, FP (moulded) : 0.380 m

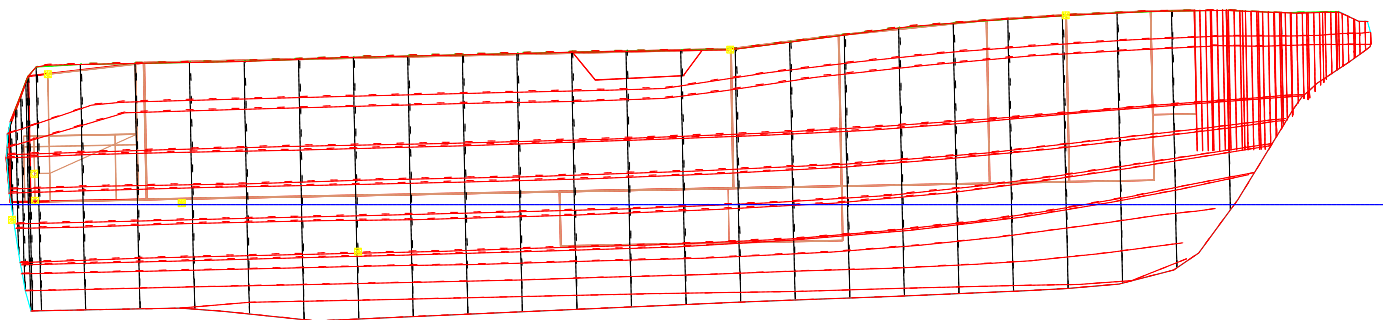
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.6 MT  
 Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Total DEADWEIGHT : 1.4 MT

Displacement ..... : 2.815 MT  
 LCB (rel. AP) ..... : 2.120 m  
 VCB (rel. BL) ..... : 0.284 m  
 LCF (rel. AP) ..... : 2.341 m  
 TPC - Immersion ..... : 0.099 MT/cm  
 Trim Moment ..... : 0.034 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 1.000 m  
 Free Surface Correction: 0.271 m  
 GM (GZ derived) ..... : 0.360 m

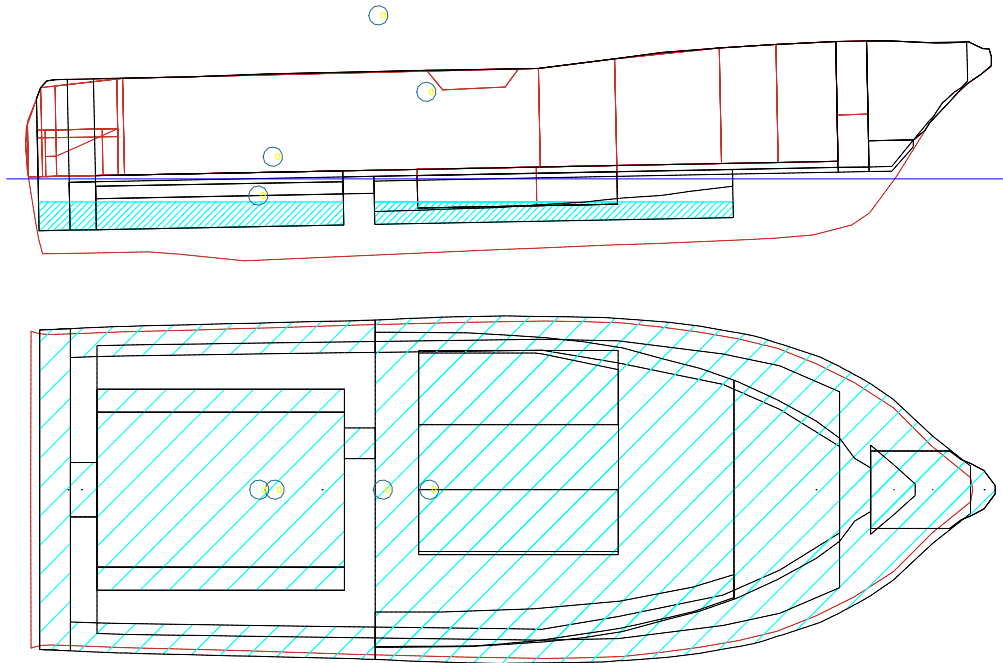


Water Density = 1.025 t/m3

## Please note!

- Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).
- GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 15  
 Condition Id. text : Fiskere jevnt fordelt - 0.6 t vann u/innerliner



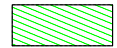
○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

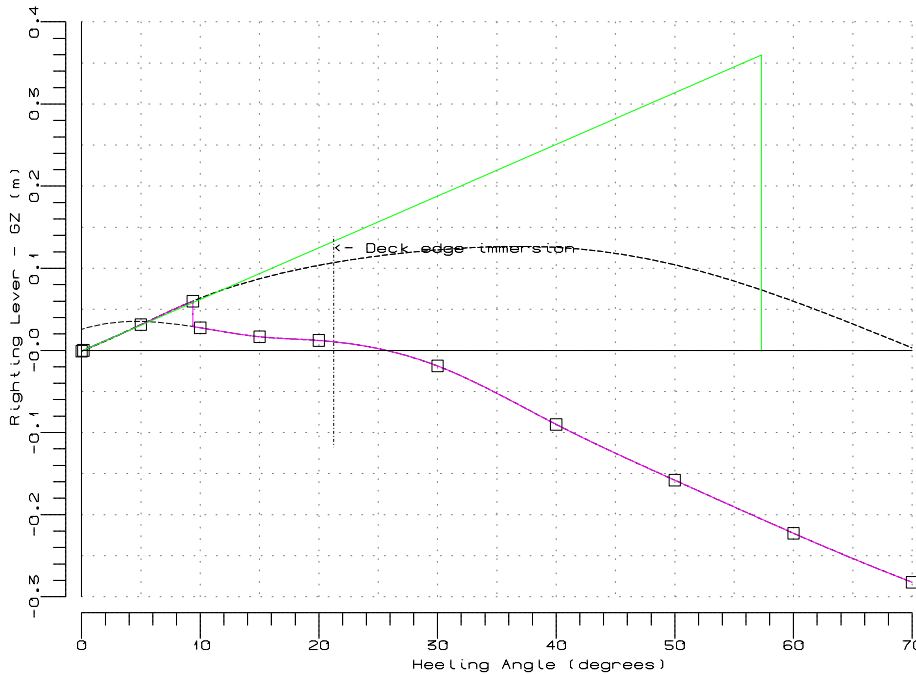
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.600	23.0	1.0250	-0.02	6.16	1.971	0.007	0.226	0.76
DEAD WEIGHT		1.388					2.006	0.003	0.795	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.815					2.129	0.002	0.730	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 15  
 Condition Id. text : Fiskere jevnt fordelt - 0.6 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.001	0.0000
0.146	0.000	0.0000
5.000	0.031	0.0013
9.375	0.060	0.0048
10.000	0.028	0.0051
15.000	0.017	0.0070
20.000	0.012	0.0083
30.000	-0.019	0.0083
40.000	-0.090	-0.0009
50.000	-0.158	-0.0227
60.000	-0.223	-0.0560
70.000	-0.282	-0.1002

Deck immersion : 21.250 °  
 Maximum GZ at : 9.375 °  
 Equilibrium at : 0.146 °  
 Area, 0 - 30 : 0.0083 m\*rad  
 Area, 0 - 40 : -0.0009 m\*rad  
 Area, 30 - 40 : -0.0092 m\*rad  
 Area, 0 - maxGZ: 0.0048 m\*rad  
 GM : 0.360 m

Heel to starboard side  
 Applied VCG : 0.729 m  
 TCG : 0.001 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.001	-0.001
5.000	0.031	0.053
10.000	0.028	0.072
15.000	0.017	0.086
20.000	0.012	0.099
30.000	-0.019	0.093
40.000	-0.090	0.039
50.000	-0.158	-0.021
60.000	-0.223	-0.087
70.000	-0.282	-0.155

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.022	0.001
10.000	0.044	0.004
15.000	0.069	0.010
20.000	0.087	0.017
30.000	0.111	0.032
40.000	0.128	0.048
50.000	0.141	0.060
60.000	0.152	0.069
70.000	0.162	0.077

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.600	1.025	2.231	0.008	0.224
5.000	0.600	1.025	2.239	0.110	0.228
10.000	0.600	1.025	2.122	0.212	0.242
15.000	0.600	1.025	1.909	0.330	0.272
20.000	0.600	1.025	1.763	0.411	0.303
30.000	0.600	1.025	1.496	0.523	0.374
40.000	0.600	1.025	1.359	0.604	0.449
50.000	0.600	1.025	1.396	0.668	0.504
60.000	0.600	1.025	1.482	0.717	0.547
70.000	0.600	1.025	1.619	0.764	0.585
Equilibrium:					
0.146	0.600	1.025	1.971	0.007	0.226

Vertical dist. betw. sea and comp. level at equilibrium : 0.150m

15. Fishermen uniformly distributed - 0,6 t water below innerliner

## Flood Opening Results

Loading Condition no. : 15 ,Fiskere jevnt fordelt - 0.6 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	9.38	0.14
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.21
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.07
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	12.19	0.01
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	1.88	0.01
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	34.53	0.71
7	Rekke akter	Ref. point		0.1	0.9	1.08	23.52	0.60
8	Rekke forut	Ref. point		4.8	0.8	1.26	57.58	0.87
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	2.81	0.02

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 15 ,Fiskere jevnt fordelt - 0.6 t vann u/innerline

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.382	0.382
2	-0.075	1.024	0.874	0.384	0.389
3	-0.050	1.017	0.933	0.444	0.449
4	-0.025	1.009	0.993	0.504	0.509
5	0.000	1.006	1.055	0.567	0.572
6	0.008	1.005	1.075	0.587	0.592
7	0.048	1.003	1.118	0.630	0.636
8	0.250	1.010	1.126	0.642	0.647
9	0.500	1.019	1.126	0.647	0.652
10	0.750	1.027	1.126	0.652	0.657
11	1.000	1.034	1.126	0.657	0.662
12	1.250	1.040	1.131	0.666	0.672
13	1.500	1.047	1.135	0.675	0.681
14	1.750	1.055	1.136	0.681	0.686
15	2.000	1.063	1.137	0.687	0.692
16	2.250	1.070	1.138	0.693	0.698
17	2.500	1.077	1.139	0.698	0.704
18	2.750	1.082	1.138	0.702	0.708
19	3.000	1.087	1.138	0.706	0.712
20	3.250	1.092	1.140	0.713	0.719
21	3.500	1.086	1.167	0.745	0.751
22	3.750	1.079	1.194	0.777	0.783
23	4.000	1.051	1.222	0.810	0.815
24	4.250	1.018	1.239	0.832	0.837
25	4.500	0.974	1.252	0.850	0.855
26	4.750	0.915	1.263	0.866	0.871
27	5.000	0.816	1.271	0.879	0.883
28	5.250	0.692	1.274	0.887	0.891
29	5.500	0.530	1.273	0.891	0.893
30	5.750	0.280	1.256	0.880	0.881
31	6.000	0.079	1.256	0.884	0.885
32	6.013	0.000	1.256	0.885	0.885

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----



Loading Condition no. : 16

## Fiskere jevnt fordelt - 0.7 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.442 m  
 Trim over Lpp (aft +) : 0.118 m  
 List (starboard +) ... : 0.253 °  
 Draught, AP (moulded) : 0.501 m  
 Draught, LCF (moulded) : 0.450 m  
 Draught, FP (moulded) : 0.383 m

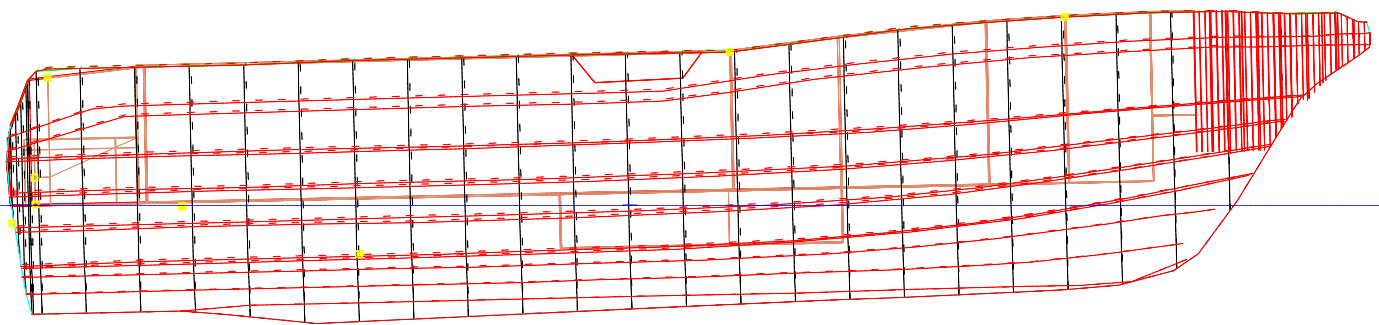
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.7 MT  
 Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin \_\_\_\_\_ : 0.1 MT  
 Total DEADWEIGHT : 1.5 MT

Displacement ..... : 2.915 MT  
 LCB (rel. AP) ..... : 2.112 m  
 VCB (rel. BL) ..... : 0.290 m  
 LCF (rel. AP) ..... : 2.385 m  
 TPC - Immersion ..... : 0.097 MT/cm  
 Trim Moment ..... : 0.033 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 1.000 m  
 Free Surface Correction: 0.285 m  
 GM (GZ derived) ..... : 0.338 m

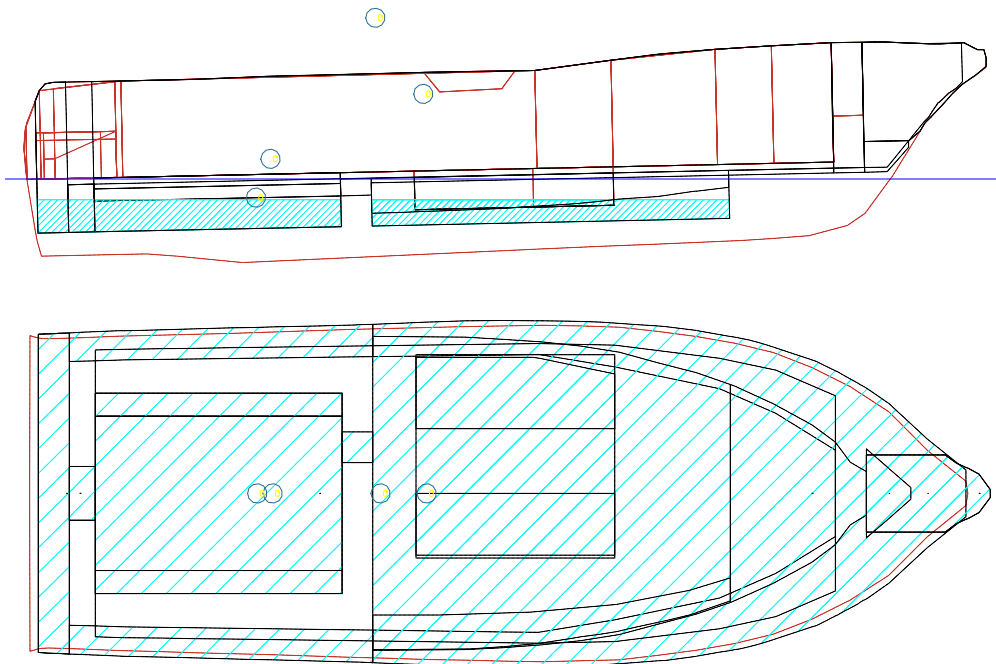


Water Density = 1.025 t/m3

## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 16  
 Condition Id. text : Fiskere jevnt fordelt - 0.7 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

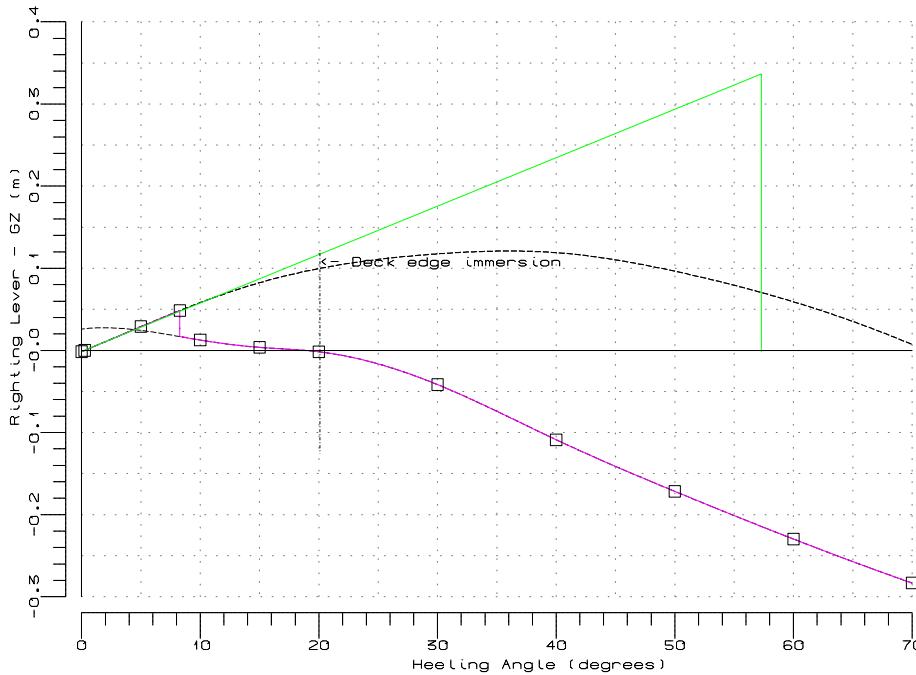
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.700	26.9	1.0250	-0.02	6.16	1.962	0.011	0.239	0.83
DEAD WEIGHT		1.488					2.000	0.005	0.762	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.915					2.121	0.003	0.716	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 16  
 Condition Id. text : Fiskere jevnt fordelt - 0.7 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.002	0.0000
0.253	0.000	0.0000
5.000	0.029	0.0012
8.281	0.048	0.0034
10.000	0.013	0.0039
15.000	0.004	0.0045
20.000	-0.002	0.0046
30.000	-0.042	0.0014
40.000	-0.109	-0.0116
50.000	-0.172	-0.0362
60.000	-0.230	-0.0712
70.000	-0.283	-0.1161

Deck immersion : 20.078 °  
 Maximum GZ at : 8.281 °  
 Equilibrium at : 0.253 °  
 Area, 0 - 30 : 0.0014 m\*rad  
 Area, 0 - 40 : -0.0116 m\*rad  
 Area, 30 - 40 : -0.0130 m\*rad  
 Area, 0 - maxGZ: 0.0034 m\*rad  
 GM : 0.338 m

Heel to starboard side  
 Applied VCG : 0.715 m  
 TCG : 0.001 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

FREE SURFACE EFFECTS ON GZ-VALUES

-----

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.002	-0.001
5.000	0.029	0.052
10.000	0.013	0.061
15.000	0.004	0.077
20.000	-0.002	0.090
30.000	-0.042	0.076
40.000	-0.109	0.027
50.000	-0.172	-0.029
60.000	-0.230	-0.090
70.000	-0.283	-0.152

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

-----

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.001
5.000	0.023	0.002
10.000	0.048	0.005
15.000	0.073	0.011
20.000	0.091	0.019
30.000	0.116	0.035
40.000	0.134	0.051
50.000	0.148	0.062
60.000	0.159	0.070
70.000	0.170	0.078

Compartment no. 2 Id. text : Indre volum

-----

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.700	1.025	2.209	0.008	0.236
5.000	0.700	1.025	2.168	0.105	0.240
10.000	0.700	1.025	2.001	0.205	0.256
15.000	0.700	1.025	1.844	0.308	0.283
20.000	0.700	1.025	1.705	0.384	0.313
30.000	0.700	1.025	1.460	0.488	0.383
40.000	0.700	1.025	1.392	0.566	0.447
50.000	0.700	1.025	1.440	0.623	0.492
60.000	0.700	1.025	1.525	0.668	0.528
70.000	0.700	1.025	1.655	0.712	0.561
Equilibrium:					
0.253	0.700	1.025	1.962	0.011	0.239

-----

Vertical dist. betw. sea and comp. level at equilibrium : 0.136m

16. Fishermen uniformly distributed - 0,7 t water below innerliner

## Flood Opening Results

Loading Condition no. : 16 ,Fiskere jevnt fordelt - 0.7 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	8.28	0.13
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.22
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.08
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	-0.01
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	-0.01
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	33.44	0.70
7	Rekke akter	Ref. point		0.1	0.9	1.08	21.72	0.58
8	Rekke forut	Ref. point		4.8	0.8	1.26	56.87	0.86
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	0.62	0.00

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 16 ,Fiskere jevnt fordelt - 0.7 t vann u/innerline

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.366	0.366
2	-0.075	1.024	0.874	0.366	0.375
3	-0.050	1.017	0.933	0.426	0.435
4	-0.025	1.009	0.993	0.487	0.495
5	0.000	1.006	1.055	0.549	0.558
6	0.008	1.005	1.075	0.569	0.578
7	0.048	1.003	1.118	0.613	0.622
8	0.250	1.010	1.126	0.625	0.634
9	0.500	1.019	1.126	0.631	0.640
10	0.750	1.027	1.126	0.636	0.645
11	1.000	1.034	1.126	0.642	0.651
12	1.250	1.040	1.131	0.652	0.661
13	1.500	1.047	1.135	0.661	0.670
14	1.750	1.055	1.136	0.668	0.677
15	2.000	1.063	1.137	0.674	0.683
16	2.250	1.070	1.138	0.680	0.690
17	2.500	1.077	1.139	0.686	0.696
18	2.750	1.082	1.138	0.691	0.701
19	3.000	1.087	1.138	0.696	0.705
20	3.250	1.092	1.140	0.703	0.713
21	3.500	1.086	1.167	0.736	0.745
22	3.750	1.079	1.194	0.768	0.778
23	4.000	1.051	1.222	0.802	0.811
24	4.250	1.018	1.239	0.824	0.833
25	4.500	0.974	1.252	0.843	0.851
26	4.750	0.915	1.263	0.860	0.868
27	5.000	0.816	1.271	0.873	0.880
28	5.250	0.692	1.274	0.883	0.889
29	5.500	0.530	1.273	0.887	0.892
30	5.750	0.280	1.256	0.877	0.880
31	6.000	0.079	1.256	0.883	0.883
32	6.013	0.000	1.256	0.884	0.884

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 17

## Fiskere jevnt fordelt - 0.8 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) :	0.451 m
Trim over Lpp (aft +) :	0.143 m
List (starboard +) ... :	0.346 °
Draught, AP (moulded) :	0.523 m
Draught, LCF (moulded) :	0.459 m
Draught, FP (moulded) :	0.380 m

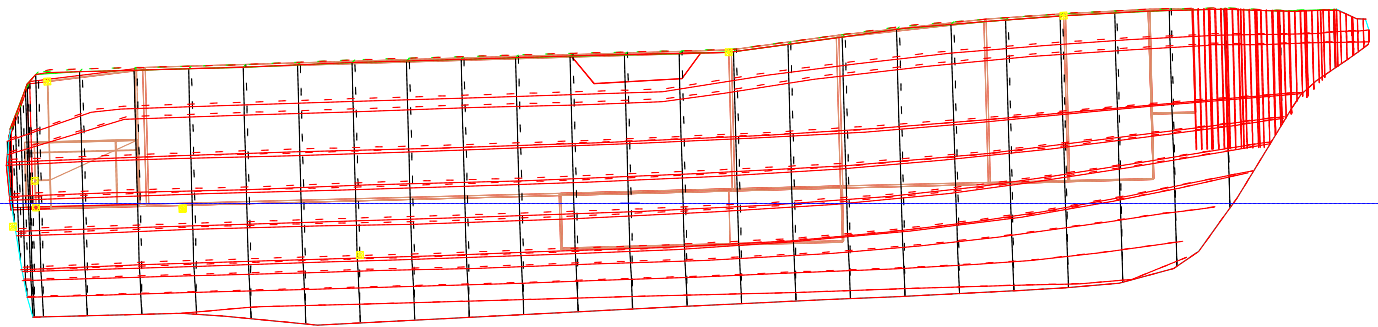
## WEIGHT SUMMARY

Miscellaneous Liquid Loads :	0.8 MT
Fiskere jevnt fordelt :	0.5 MT
Fangst :	0.2 MT
Utstyr :	0.0 MT
Bensin _____ :	0.1 MT
Total DEADWEIGHT :	1.6 MT

Displacement .....	3.015 MT
LCB (rel. AP) .....	2.096 m
VCB (rel. BL) .....	0.296 m
LCF (rel. AP) .....	2.443 m
TPC - Immersion .....	0.095 MT/cm
Trim Moment .....	0.031 MT*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) .....	1.000 m
Free Surface Correction:	0.298 m
GM (GZ derived) .....	0.316 m



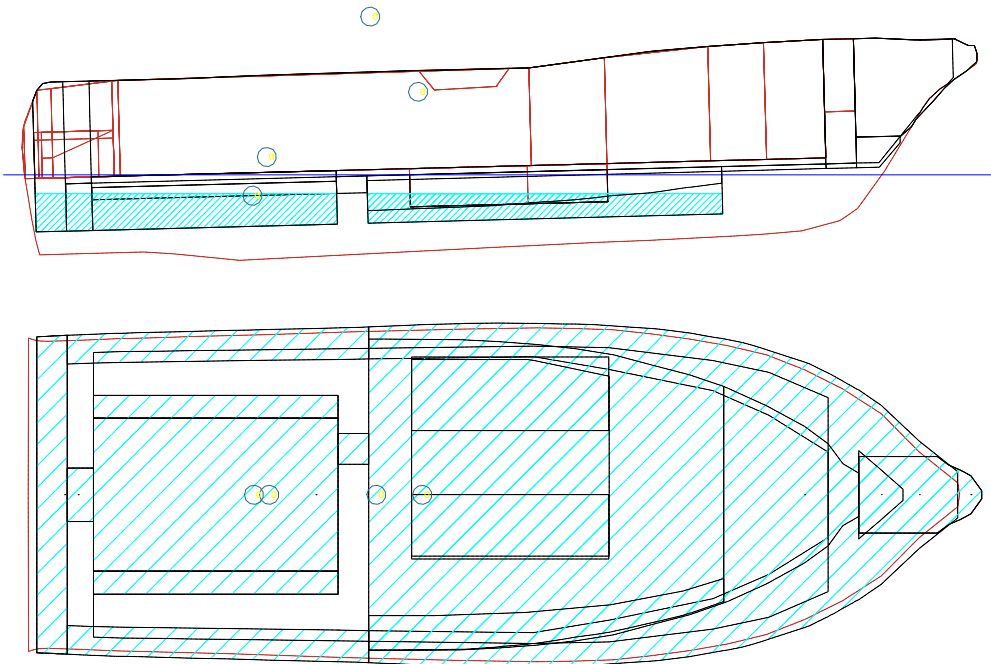
Water Density = 1.025 t/m3

## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.



Loading Condition no. : 17  
 Condition Id. text : Fiskere jevnt fordelt - 0.8 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

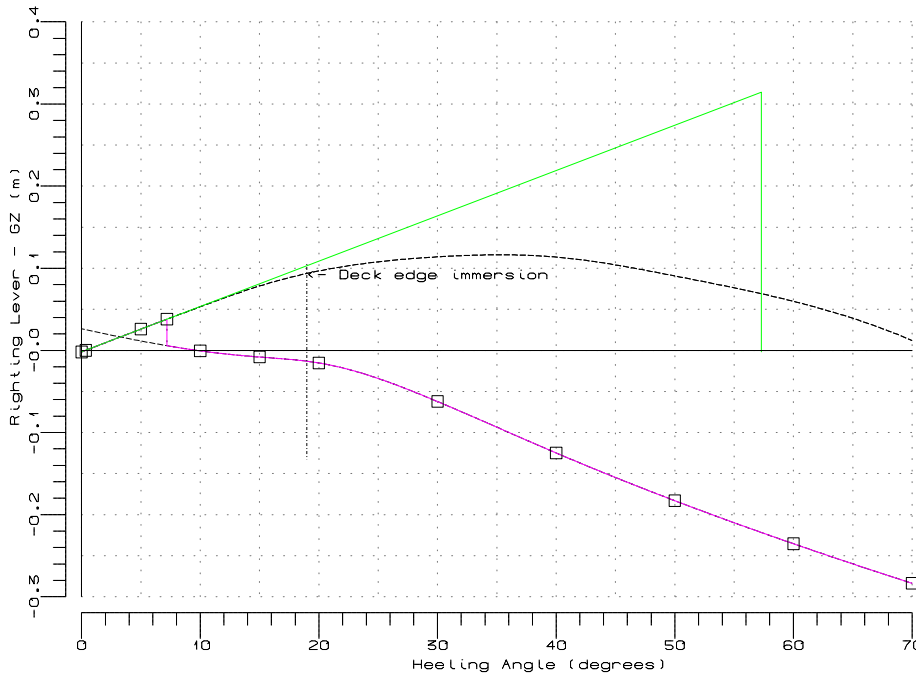
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.800	30.7	1.0250	-0.02	6.16	1.926	0.014	0.252	0.90
DEAD WEIGHT		1.588					1.979	0.007	0.736	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		3.015					2.107	0.004	0.703	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 17  
 Condition Id. text : Fiskere jevnt fordelt - 0.8 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.002	0.0000
0.346	0.000	0.0000
5.000	0.026	0.0011
7.188	0.038	0.0023
10.000	-0.001	0.0024
15.000	-0.008	0.0020
20.000	-0.015	0.0010
30.000	-0.062	-0.0052
40.000	-0.125	-0.0216
50.000	-0.183	-0.0485
60.000	-0.235	-0.0851
70.000	-0.284	-0.1305

Deck immersion : 18.984 °  
 Maximum GZ at : 7.188 °  
 Equilibrium at : 0.346 °  
 Area, 0 - 30 : -0.0052 m\*rad  
 Area, 0 - 40 : -0.0216 m\*rad  
 Area, 30 - 40 : -0.0163 m\*rad  
 Area, 0 - maxGZ: 0.0023 m\*rad  
 GM : 0.316 m

Heel to starboard side  
 Applied VCG : 0.702 m  
 TCG : 0.002 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.002	-0.002
5.000	0.026	0.050
10.000	-0.001	0.049
15.000	-0.008	0.066
20.000	-0.015	0.078
30.000	-0.062	0.059
40.000	-0.125	0.014
50.000	-0.183	-0.038
60.000	-0.235	-0.093
70.000	-0.284	-0.151

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.001
5.000	0.024	0.002
10.000	0.050	0.006
15.000	0.074	0.013
20.000	0.092	0.020
30.000	0.118	0.038
40.000	0.138	0.052
50.000	0.152	0.062
60.000	0.163	0.070
70.000	0.175	0.078

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.800	1.025	2.173	0.008	0.248
5.000	0.800	1.025	1.996	0.100	0.254
10.000	0.800	1.025	1.858	0.194	0.270
15.000	0.800	1.025	1.751	0.285	0.295
20.000	0.800	1.025	1.633	0.354	0.324
30.000	0.800	1.025	1.443	0.453	0.390
40.000	0.800	1.025	1.423	0.527	0.444
50.000	0.800	1.025	1.480	0.580	0.482
60.000	0.800	1.025	1.566	0.623	0.512
70.000	0.800	1.025	1.691	0.666	0.541
Equilibrium:					
0.346	0.800	1.025	1.926	0.014	0.252

Vertical dist. betw. sea and comp. level at equilibrium : 0.125m

17. Fishermen uniformly distributed - 0,8 t water below innerliner

## Flood Opening Results

Loading Condition no. : 17 ,Fiskere jevnt fordelt - 0.8 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	7.19	0.10
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.24
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.11
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	-0.02
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	-0.03
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	32.27	0.69
7	Rekke akter	Ref. point		0.1	0.9	1.08	19.69	0.56
8	Rekke forut	Ref. point		4.8	0.8	1.26	56.02	0.86
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	0.00	-0.02

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 17 ,Fiskere jevnt fordelt - 0.8 t vann u/innerline

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.344	0.344
2	-0.075	1.024	0.874	0.343	0.355
3	-0.050	1.017	0.933	0.403	0.415
4	-0.025	1.009	0.993	0.463	0.475
5	0.000	1.006	1.055	0.526	0.538
6	0.008	1.005	1.075	0.546	0.558
7	0.048	1.003	1.118	0.590	0.602
8	0.250	1.010	1.126	0.603	0.616
9	0.500	1.019	1.126	0.610	0.622
10	0.750	1.027	1.126	0.616	0.629
11	1.000	1.034	1.126	0.623	0.636
12	1.250	1.040	1.131	0.634	0.647
13	1.500	1.047	1.135	0.645	0.657
14	1.750	1.055	1.136	0.652	0.665
15	2.000	1.063	1.137	0.660	0.673
16	2.250	1.070	1.138	0.667	0.680
17	2.500	1.077	1.139	0.674	0.687
18	2.750	1.082	1.138	0.680	0.693
19	3.000	1.087	1.138	0.686	0.699
20	3.250	1.092	1.140	0.694	0.708
21	3.500	1.086	1.167	0.728	0.741
22	3.750	1.079	1.194	0.762	0.775
23	4.000	1.051	1.222	0.796	0.809
24	4.250	1.018	1.239	0.820	0.832
25	4.500	0.974	1.252	0.840	0.851
26	4.750	0.915	1.263	0.858	0.869
27	5.000	0.816	1.271	0.873	0.882
28	5.250	0.692	1.274	0.884	0.892
29	5.500	0.530	1.273	0.889	0.896
30	5.750	0.280	1.256	0.881	0.884
31	6.000	0.079	1.256	0.888	0.889
32	6.013	0.000	1.256	0.889	0.889

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 18

## Fiskere jevnt fordelt - 0.9 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) :	0.460 m
Trim over Lpp (aft +) :	0.169 m
List (starboard +) ... :	0.427 °
Draught, AP (moulded) :	0.545 m
Draught, LCF (moulded) :	0.470 m
Draught, FP (moulded) :	0.376 m

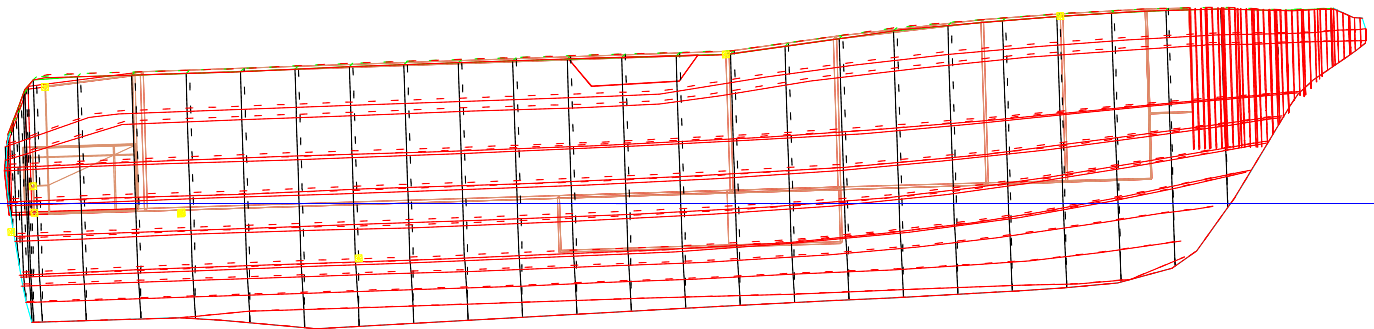
## WEIGHT SUMMARY

Miscellaneous Liquid Loads :	0.9 MT
Fiskere jevnt fordelt :	0.5 MT
Fangst :	0.2 MT
Utstyr :	0.0 MT
Bensin _____ :	0.1 MT
Total DEADWEIGHT :	1.7 MT

Displacement .....	3.115 MT
LCB (rel. AP) .....	2.079 m
VCB (rel. BL) .....	0.302 m
LCF (rel. AP) .....	2.441 m
TPC - Immersion .....	0.095 MT/cm
Trim Moment .....	0.031 MT*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) .....	0.995 m
Free Surface Correction:	0.304 m
GM (GZ derived) .....	0.282 m

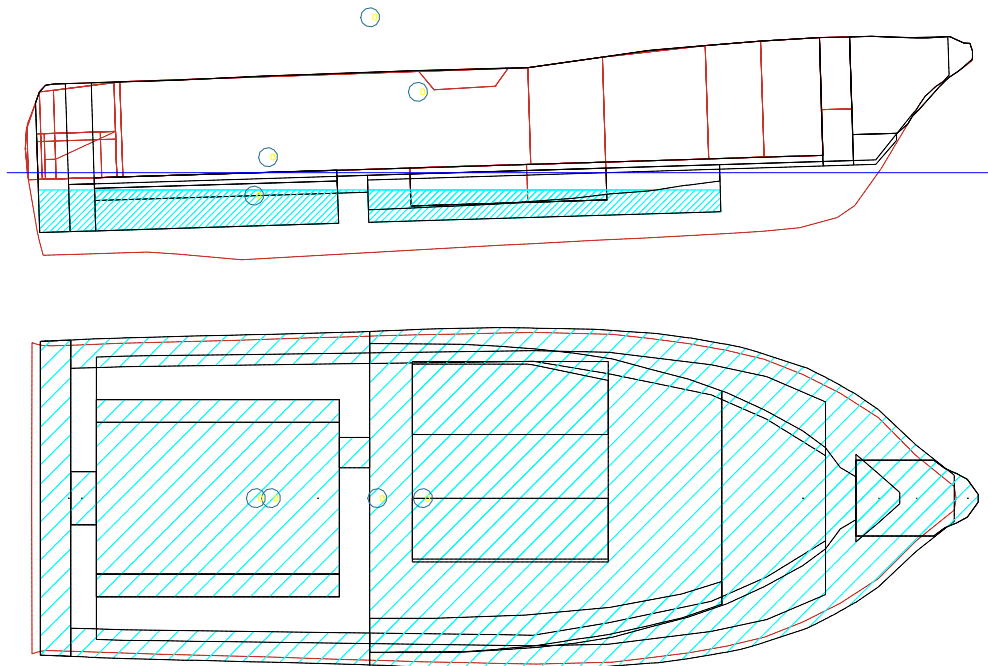


Water Density = 1.025 t/m3

## Please note!

- Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).
- GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 18  
 Condition Id. text : Fiskere jevnt fordelt - 0.9 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.900	34.5	1.0250	-0.02	6.16	1.894	0.015	0.264	0.95
DEAD WEIGHT		1.688					1.959	0.008	0.714	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		3.115					2.091	0.004	0.692	

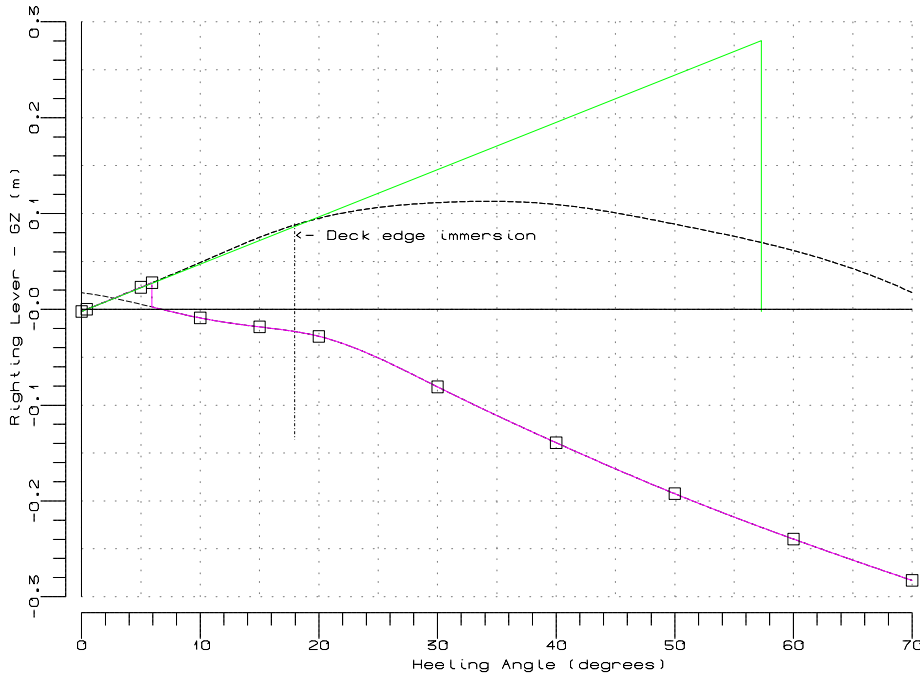
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- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 18  
 Condition Id. text : Fiskere jevnt fordelt - 0.9 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.002	0.0000
0.427	0.000	0.0000
5.000	0.023	0.0009
5.938	0.028	0.0013
10.000	-0.009	0.0011
15.000	-0.018	-0.0001
20.000	-0.028	-0.0021
30.000	-0.081	-0.0112
40.000	-0.139	-0.0305
50.000	-0.192	-0.0595
60.000	-0.240	-0.0973
70.000	-0.283	-0.1430

Deck immersion : 17.969 °  
 Maximum GZ at : 5.938 °  
 Equilibrium at : 0.427 °  
 Area, 0 - 30 : -0.0112 m\*rad  
 Area, 0 - 40 : -0.0305 m\*rad  
 Area, 30 - 40 : -0.0193 m\*rad  
 Area, 0 - maxGZ: 0.0013 m\*rad  
 GM : 0.282 m

Heel to starboard side  
 Applied VCG : 0.691 m  
 TCG : 0.002 m

Please note !

-The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.002	-0.002
5.000	0.023	0.049
10.000	-0.009	0.041
15.000	-0.018	0.056
20.000	-0.028	0.066
30.000	-0.081	0.042
40.000	-0.139	0.000
50.000	-0.192	-0.047
60.000	-0.240	-0.097
70.000	-0.283	-0.150

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.001
5.000	0.026	0.002
10.000	0.049	0.009
15.000	0.073	0.015
20.000	0.092	0.022
30.000	0.119	0.040
40.000	0.138	0.052
50.000	0.153	0.061
60.000	0.165	0.069
70.000	0.178	0.076

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.900	1.025	1.641	0.003	0.276
5.000	0.900	1.025	1.611	0.084	0.282
10.000	0.900	1.025	1.633	0.176	0.292
15.000	0.900	1.025	1.629	0.258	0.311
20.000	0.900	1.025	1.570	0.324	0.337
30.000	0.900	1.025	1.430	0.417	0.397
40.000	0.900	1.025	1.437	0.482	0.440
50.000	0.900	1.025	1.506	0.534	0.472
60.000	0.900	1.025	1.600	0.578	0.498
70.000	0.900	1.025	1.722	0.622	0.524
Equilibrium:					
0.427	0.900	1.025	1.894	0.015	0.264

Vertical dist. betw. sea and comp. level at equilibrium : 0.115m

18. Fishermen uniformly distributed - 0,9 t water below innerliner

## Flood Opening Results

Loading Condition no. : 18 ,Fiskere jevnt fordelt - 0.9 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	5.94	0.08
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.25
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.13
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	-0.04
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	-0.05
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	30.94	0.68
7	Rekke akter	Ref. point		0.1	0.9	1.08	17.03	0.54
8	Rekke forut	Ref. point		4.8	0.8	1.26	55.31	0.86
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	0.00	-0.04

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 18 ,Fiskere jevnt fordelt - 0.9 t vann u/innerline

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.322	0.322
2	-0.075	1.024	0.874	0.319	0.334
3	-0.050	1.017	0.933	0.379	0.394
4	-0.025	1.009	0.993	0.440	0.455
5	0.000	1.006	1.055	0.502	0.517
6	0.008	1.005	1.075	0.523	0.538
7	0.048	1.003	1.118	0.567	0.582
8	0.250	1.010	1.126	0.581	0.596
9	0.500	1.019	1.126	0.589	0.604
10	0.750	1.027	1.126	0.596	0.612
11	1.000	1.034	1.126	0.604	0.620
12	1.250	1.040	1.131	0.616	0.632
13	1.500	1.047	1.135	0.628	0.644
14	1.750	1.055	1.136	0.637	0.653
15	2.000	1.063	1.137	0.646	0.661
16	2.250	1.070	1.138	0.654	0.670
17	2.500	1.077	1.139	0.663	0.679
18	2.750	1.082	1.138	0.670	0.686
19	3.000	1.087	1.138	0.677	0.693
20	3.250	1.092	1.140	0.686	0.702
21	3.500	1.086	1.167	0.721	0.737
22	3.750	1.079	1.194	0.756	0.772
23	4.000	1.051	1.222	0.792	0.808
24	4.250	1.018	1.239	0.816	0.832
25	4.500	0.974	1.252	0.838	0.852
26	4.750	0.915	1.263	0.857	0.871
27	5.000	0.816	1.271	0.873	0.885
28	5.250	0.692	1.274	0.886	0.896
29	5.500	0.530	1.273	0.893	0.900
30	5.750	0.280	1.256	0.886	0.890
31	6.000	0.079	1.256	0.894	0.895
32	6.013	0.000	1.256	0.896	0.896

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 19

## Fiskere jevnt fordelt - 1.0 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.469 m  
 Trim over Lpp (aft +) : 0.193 m  
 List (starboard +) ... : 0.500 °  
 Draught, AP (moulded) : 0.566 m  
 Draught, LCF (moulded) : 0.480 m  
 Draught, FP (moulded) : 0.373 m

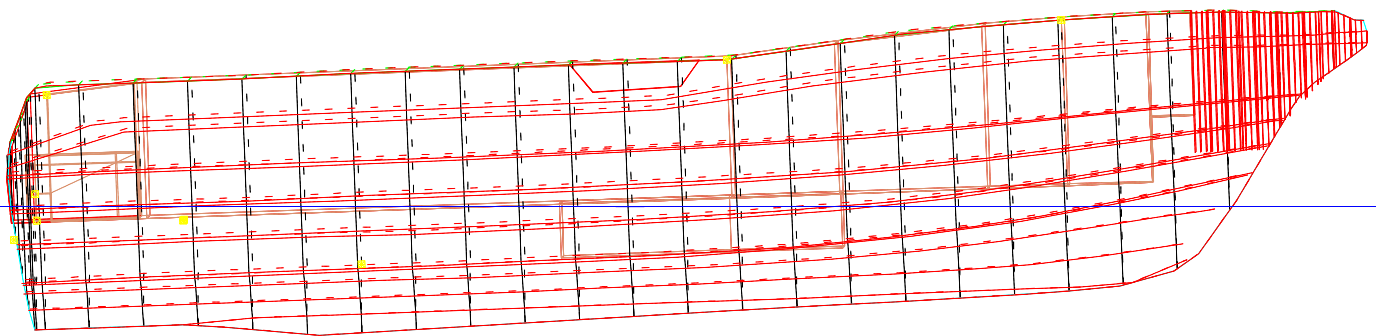
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 1.0 MT  
 Fiskere jevnt fordelt : 0.5 MT  
 Fangst : 0.2 MT  
 Utstyr : 0.0 MT  
 Bensin : 0.1 MT  
 Total DEADWEIGHT : 1.8 MT

Displacement ..... : 3.215 MT  
 LCB (rel. AP) ..... : 2.067 m  
 VCB (rel. BL) ..... : 0.308 m  
 LCF (rel. AP) ..... : 2.439 m  
 TPC - Immersion ..... : 0.095 MT/cm  
 Trim Moment ..... : 0.031 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.992 m  
 Free Surface Correction: 0.311 m  
 GM (GZ derived) ..... : 0.268 m

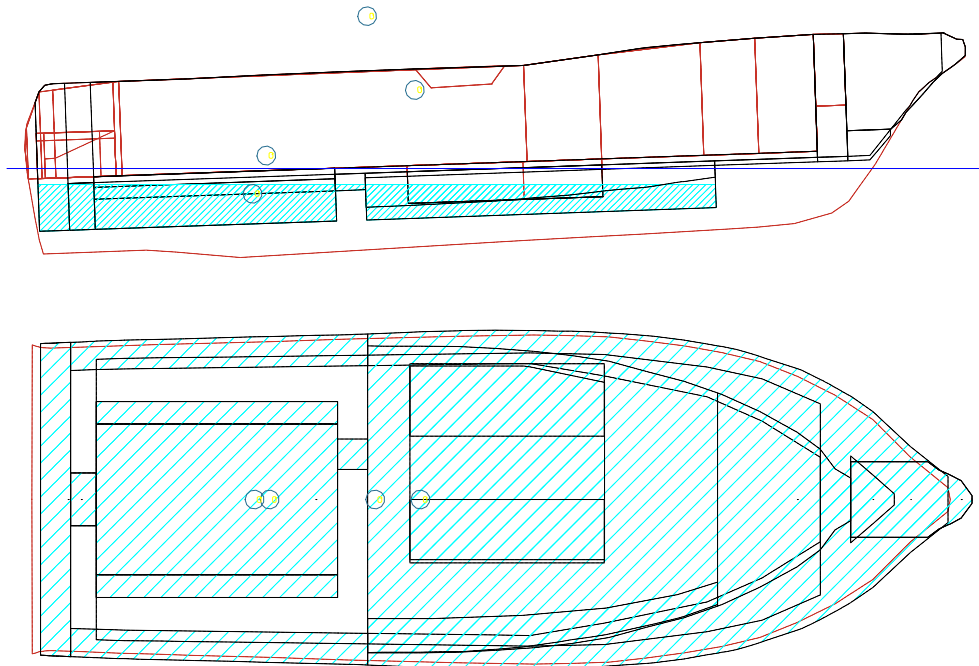


Water Density = 1.025 t/m3

## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 19  
 Condition Id. text : Fiskere jevnt fordelt - 1.0 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	1.000	38.4	1.0250	-0.02	6.16	1.877	0.014	0.277	1.00
DEAD WEIGHT		1.788					1.946	0.008	0.696	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		3.215					2.080	0.004	0.683	

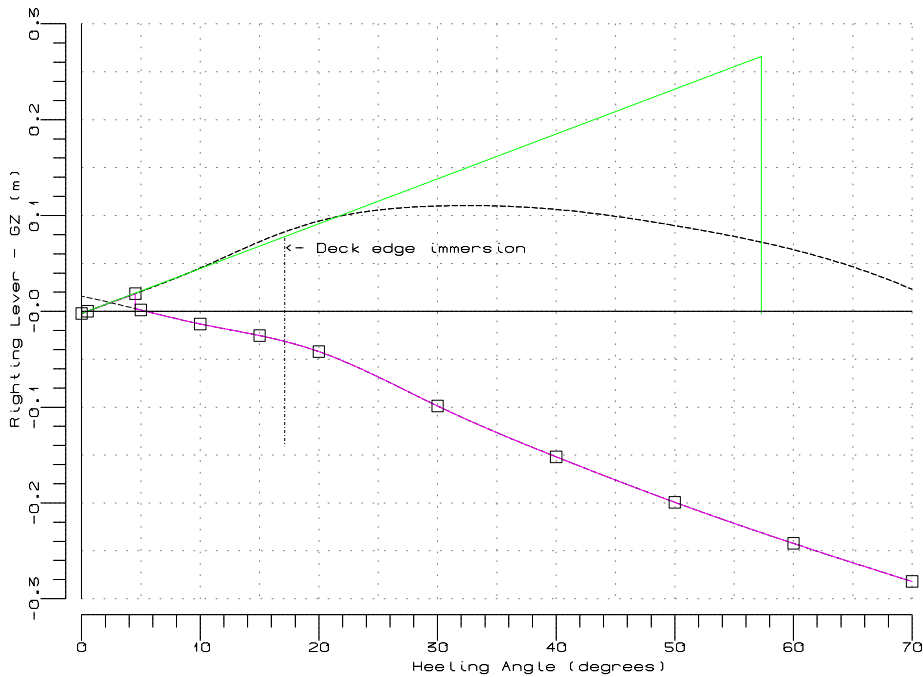
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- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.



Loading Condition no. : 19  
 Condition Id. text : Fiskere jevnt fordelt - 1.0 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.002	0.0000
0.500	0.000	0.0000
4.531	0.019	0.0007
5.000	0.001	0.0007
10.000	-0.013	0.0001
15.000	-0.025	-0.0015
20.000	-0.042	-0.0044
30.000	-0.099	-0.0165
40.000	-0.152	-0.0385
50.000	-0.199	-0.0692
60.000	-0.242	-0.1078
70.000	-0.282	-0.1536

Deck immersion : 17.109 °  
 Maximum GZ at : 4.531 °  
 Equilibrium at : 0.500 °  
 Area, 0 - 30 : -0.0165 m\*rad  
 Area, 0 - 40 : -0.0385 m\*rad  
 Area, 30 - 40 : -0.0220 m\*rad  
 Area, 0 - maxGZ: 0.0007 m\*rad  
 GM : 0.268 m

Heel to starboard side  
 Applied VCG : 0.681 m  
 TCG : 0.002 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.002	-0.002
5.000	0.001	0.025
10.000	-0.013	0.035
15.000	-0.025	0.047
20.000	-0.042	0.050
30.000	-0.099	0.018
40.000	-0.152	-0.020
50.000	-0.199	-0.060
60.000	-0.242	-0.104
70.000	-0.282	-0.150

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.002
5.000	0.023	0.010
10.000	0.047	0.013
15.000	0.070	0.018
20.000	0.089	0.025
30.000	0.112	0.041
40.000	0.130	0.051
50.000	0.147	0.059
60.000	0.162	0.066
70.000	0.178	0.075

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	1.000	1.025	1.492	0.000	0.302
5.000	1.000	1.025	1.517	0.078	0.303
10.000	1.000	1.025	1.530	0.157	0.312
15.000	1.000	1.025	1.540	0.231	0.328
20.000	1.000	1.025	1.490	0.291	0.352
30.000	1.000	1.025	1.383	0.364	0.404
40.000	1.000	1.025	1.414	0.422	0.435
50.000	1.000	1.025	1.497	0.477	0.461
60.000	1.000	1.025	1.605	0.527	0.485
70.000	1.000	1.025	1.750	0.579	0.512
Equilibrium:					
0.500	1.000	1.025	1.877	0.014	0.277

Vertical dist. betw. sea and comp. level at equilibrium : 0.105m

19. Fishermen uniformly distributed - 1,0 t water below innerliner

## Flood Opening Results

Loading Condition no. : 19 ,Fiskere jevnt fordelt - 1.0 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	4.53	0.06
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.26
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.15
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	-0.06
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	-0.06
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	29.22	0.68
7	Rekke akter	Ref. point		0.1	0.9	1.08	12.50	0.51
8	Rekke forut	Ref. point		4.8	0.8	1.26	55.31	0.86
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	0.00	-0.06

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 19 ,Fiskere jevnt fordelt - 1.0 t vann u/innerline

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.300	0.300
2	-0.075	1.024	0.874	0.296	0.314
3	-0.050	1.017	0.933	0.356	0.374
4	-0.025	1.009	0.993	0.417	0.435
5	0.000	1.006	1.055	0.480	0.498
6	0.008	1.005	1.075	0.500	0.518
7	0.048	1.003	1.118	0.545	0.562
8	0.250	1.010	1.126	0.560	0.577
9	0.500	1.019	1.126	0.568	0.586
10	0.750	1.027	1.126	0.577	0.595
11	1.000	1.034	1.126	0.586	0.604
12	1.250	1.040	1.131	0.599	0.618
13	1.500	1.047	1.135	0.612	0.631
14	1.750	1.055	1.136	0.622	0.640
15	2.000	1.063	1.137	0.632	0.650
16	2.250	1.070	1.138	0.641	0.660
17	2.500	1.077	1.139	0.651	0.670
18	2.750	1.082	1.138	0.659	0.678
19	3.000	1.087	1.138	0.667	0.686
20	3.250	1.092	1.140	0.678	0.697
21	3.500	1.086	1.167	0.714	0.733
22	3.750	1.079	1.194	0.750	0.769
23	4.000	1.051	1.222	0.787	0.805
24	4.250	1.018	1.239	0.812	0.830
25	4.500	0.974	1.252	0.835	0.852
26	4.750	0.915	1.263	0.855	0.871
27	5.000	0.816	1.271	0.872	0.887
28	5.250	0.692	1.274	0.886	0.898
29	5.500	0.530	1.273	0.894	0.904
30	5.750	0.280	1.256	0.889	0.894
31	6.000	0.079	1.256	0.899	0.900
32	6.013	0.000	1.256	0.900	0.900

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 20

## Fiskere jevnt fordelt - 1.5 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) :	0.523 m
Trim over Lpp (aft +) :	0.164 m
List (starboard +) ... :	0.976 °
Draught, AP (moulded) :	0.605 m
Draught, LCF (moulded) :	0.531 m
Draught, FP (moulded) :	0.441 m

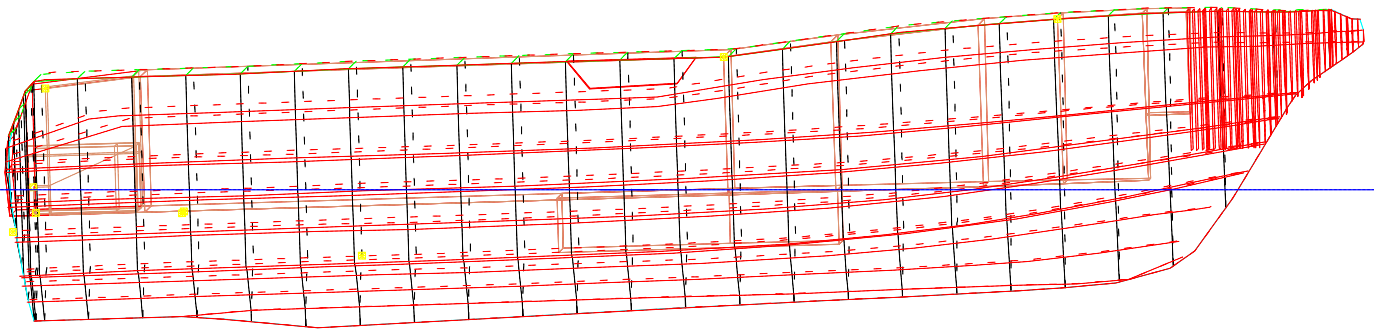
## WEIGHT SUMMARY

Miscellaneous Liquid Loads :	1.5 MT
Fiskere jevnt fordelt :	0.5 MT
Fangst :	0.2 MT
Utstyr :	0.0 MT
Bensin _____ :	0.1 MT
Total DEADWEIGHT :	2.3 MT

Displacement .....	3.715 MT
LCB (rel. AP) .....	2.146 m
VCB (rel. BL) .....	0.334 m
LCF (rel. AP) .....	2.482 m
TPC - Immersion .....	0.098 MT/cm
Trim Moment .....	0.033 MT*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) .....	0.912 m
Free Surface Correction:	0.263 m
GM (GZ derived) .....	0.282 m

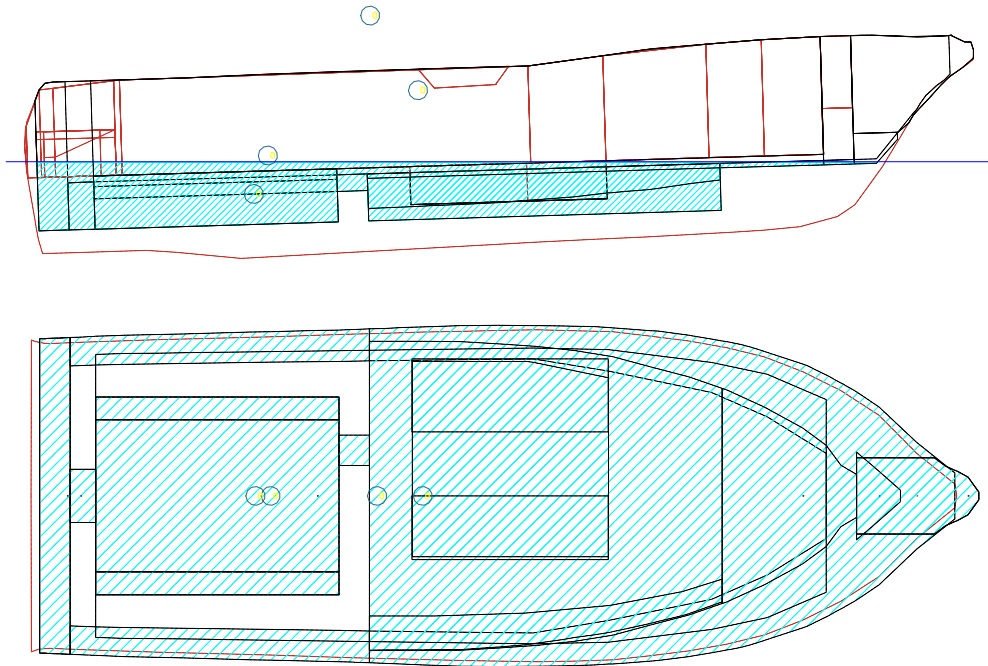


Water Density = 1.025 t/m3

## Please note!

- Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).
- GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 20  
 Condition Id. text : Fiskere jevnt fordelt - 1.5 t vann u/innerliner



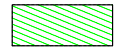
○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

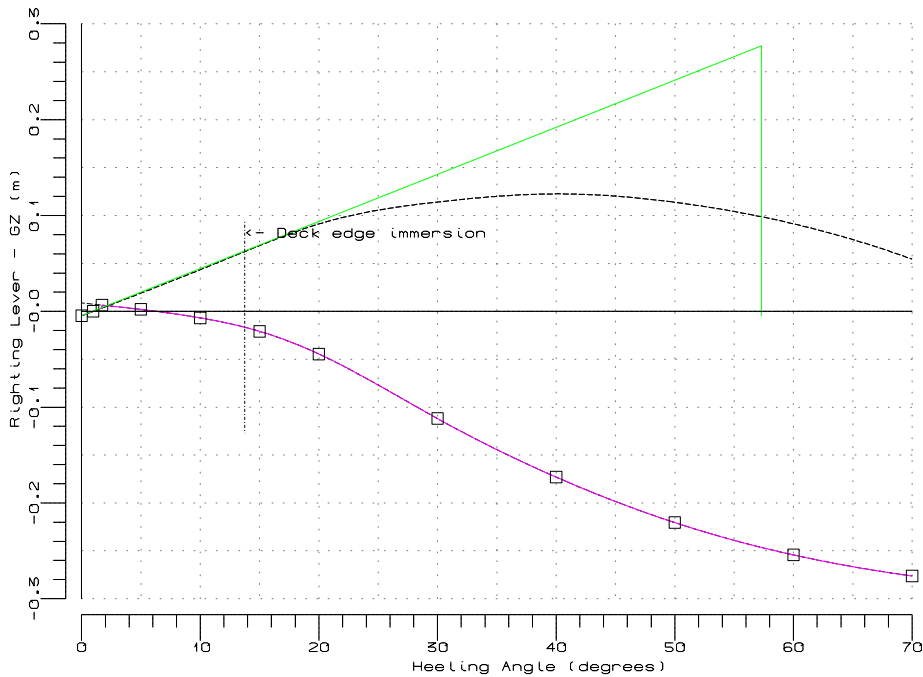
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.543					2.200	0.000	1.500	
2	Fangst									
-	Fangst på dørk	0.150					1.500	0.000	0.600	
3	Utstyr									
-	Utstyr fordelt over dørk	0.045					2.500	0.000	1.000	
4	Bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	1.500	57.5	1.0250	-0.02	6.16	2.132	0.021	0.330	0.98
DEAD WEIGHT		2.288					2.098	0.014	0.639	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		3.715					2.156	0.009	0.650	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 20  
 Condition Id. text : Fiskere jevnt fordelt - 1.5 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.005	0.0000
0.976	0.000	0.0000
1.719	0.006	0.0000
5.000	0.002	0.0003
10.000	-0.007	0.0001
15.000	-0.021	-0.0011
20.000	-0.045	-0.0039
30.000	-0.112	-0.0174
40.000	-0.173	-0.0424
50.000	-0.221	-0.0770
60.000	-0.254	-0.1186
70.000	-0.276	-0.1651

Deck immersion : 13.750 °  
 Maximum GZ at : 1.719 °  
 Equilibrium at : 0.976 °  
 Area, 0 - 30 : -0.0173 m\*rad  
 Area, 0 - 40 : -0.0424 m\*rad  
 Area, 30 - 40 : -0.0251 m\*rad  
 Area, 0 - maxGZ: 0.0001 m\*rad  
 GM : 0.282 m

Heel to starboard side  
 Applied VCG : 0.649 m  
 TCG : 0.004 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values



## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.005	-0.004
5.000	0.002	0.026
10.000	-0.007	0.040
15.000	-0.021	0.054
20.000	-0.045	0.058
30.000	-0.112	0.039
40.000	-0.173	0.000
50.000	-0.221	-0.048
60.000	-0.254	-0.094
70.000	-0.276	-0.137

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.024	0.001
10.000	0.047	0.005
15.000	0.075	0.011
20.000	0.102	0.019
30.000	0.151	0.041
40.000	0.177	0.058
50.000	0.188	0.067
60.000	0.193	0.073
70.000	0.196	0.077

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	1.500	1.025	2.150	0.010	0.329
5.000	1.500	1.025	2.139	0.068	0.332
10.000	1.500	1.025	2.114	0.127	0.340
15.000	1.500	1.025	2.108	0.195	0.356
20.000	1.500	1.025	2.130	0.263	0.376
30.000	1.500	1.025	2.191	0.383	0.431
40.000	1.500	1.025	2.311	0.449	0.472
50.000	1.500	1.025	2.406	0.476	0.495
60.000	1.500	1.025	2.479	0.489	0.510
70.000	1.500	1.025	2.524	0.494	0.521
Equilibrium:					
0.976	1.500	1.025	2.132	0.021	0.330

Vertical dist. betw. sea and comp. level at equilibrium : 0.005m

20. Fishermen uniformly distributed - 1,5 t water below innerliner

## Flood Opening Results

Loading Condition no. : 20 ,Fiskere jevnt fordelt - 1.5 t vann u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	1.72	0.01
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.30
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.19
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	-0.10
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	-0.11
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	18.52	0.61
7	Rekke akter	Ref. point		0.1	0.9	1.08	12.81	0.47
8	Rekke forut	Ref. point		4.8	0.8	1.26	27.73	0.79
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	0.00	-0.11

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 20 ,Fiskere jevnt fordelt - 1.5 t vann u/innerline

No.	Freeboard				
	X (m)	Y (m)	Z (m)	Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.262	0.262
2	-0.075	1.024	0.874	0.249	0.284
3	-0.050	1.017	0.933	0.309	0.344
4	-0.025	1.009	0.993	0.370	0.404
5	0.000	1.006	1.055	0.433	0.467
6	0.008	1.005	1.075	0.453	0.487
7	0.048	1.003	1.118	0.497	0.531
8	0.250	1.010	1.126	0.511	0.546
9	0.500	1.019	1.126	0.518	0.553
10	0.750	1.027	1.126	0.526	0.561
11	1.000	1.034	1.126	0.534	0.569
12	1.250	1.040	1.131	0.545	0.581
13	1.500	1.047	1.135	0.557	0.593
14	1.750	1.055	1.136	0.565	0.601
15	2.000	1.063	1.137	0.574	0.610
16	2.250	1.070	1.138	0.582	0.618
17	2.500	1.077	1.139	0.590	0.627
18	2.750	1.082	1.138	0.597	0.634
19	3.000	1.087	1.138	0.603	0.640
20	3.250	1.092	1.140	0.613	0.650
21	3.500	1.086	1.167	0.647	0.684
22	3.750	1.079	1.194	0.682	0.719
23	4.000	1.051	1.222	0.718	0.754
24	4.250	1.018	1.239	0.743	0.777
25	4.500	0.974	1.252	0.764	0.797
26	4.750	0.915	1.263	0.784	0.815
27	5.000	0.816	1.271	0.801	0.828
28	5.250	0.692	1.274	0.814	0.837
29	5.500	0.530	1.273	0.822	0.840
30	5.750	0.280	1.256	0.818	0.827
31	6.000	0.079	1.256	0.828	0.830
32	6.013	0.000	1.256	0.830	0.830

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 22

## Begr. 6 fiskere jevnt fordelt

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.358 m  
 Trim over Lpp (aft +) : 0.012 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.364 m  
 Draught, LCF (moulded) : 0.359 m  
 Draught, FP (moulded) : 0.352 m

Displacement ..... : 2.013 MT  
 LCB (rel. AP) ..... : 2.203 m  
 VCB (rel. BL) ..... : 0.236 m  
 LCF (rel. AP) ..... : 2.328 m  
 TPC - Immersion ..... : 0.096 MT/cm  
 Trim Moment ..... : 0.034 MT\*m/cm

## WEIGHT SUMMARY

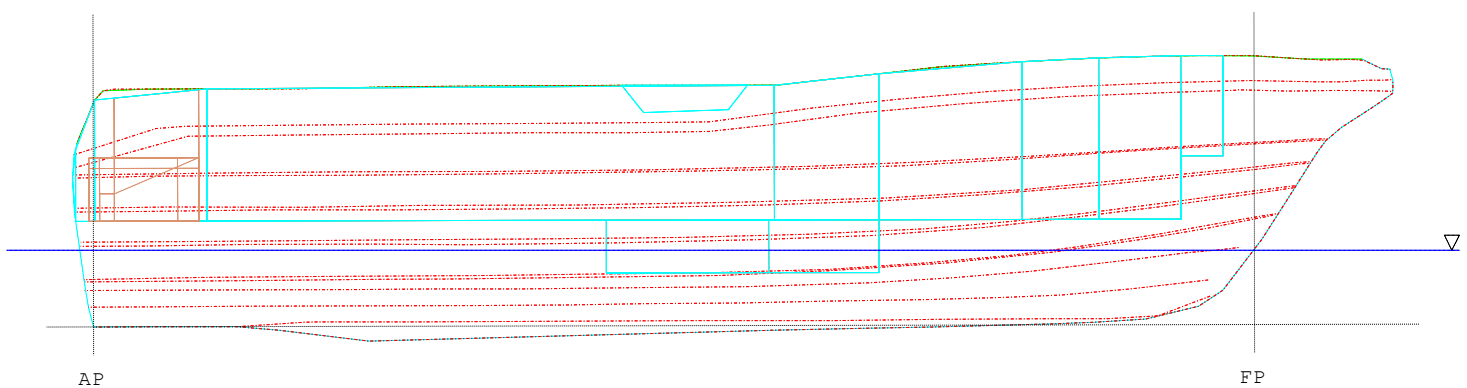
Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin \_ \_ \_ \_ \_ : 0.1 MT  
 Total DEADWEIGHT : 0.6 MT

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.850 m  
 Free Surface Correction: 0.000 m  
 KM (metacentre) ..... : 1.621 m  
 GM (incl. FSC) ..... : 0.770 m

KGmax, intact, calc. . : 99.990 m

Stability Margin ..... : 99.140 m  
 Stability Conclusion . : OK

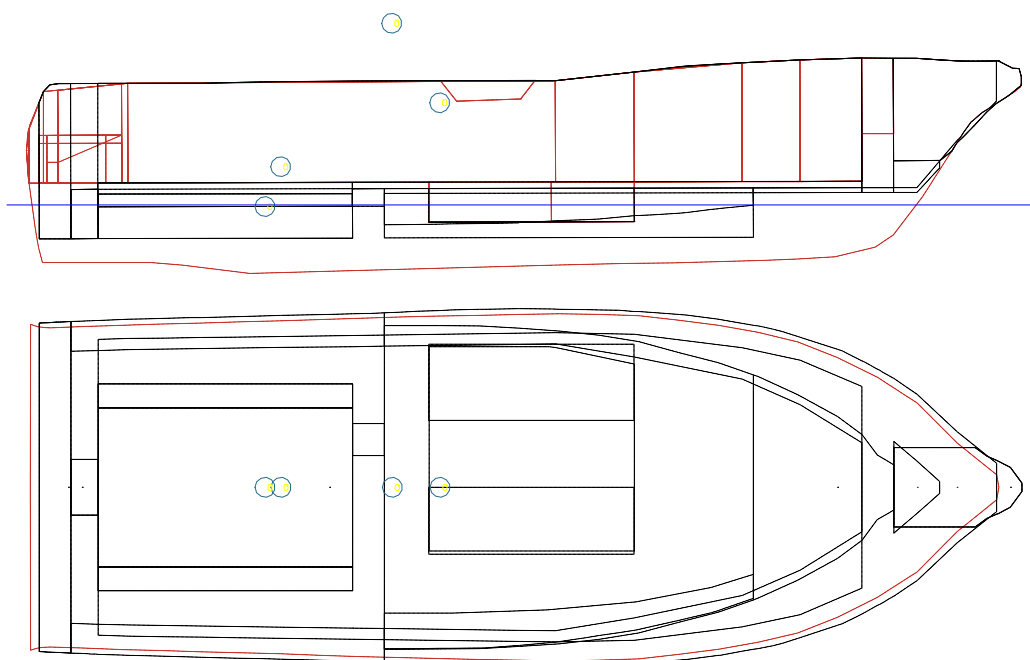


Water Density = 1.025 t/m3

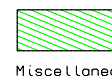
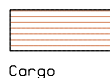
Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 22  
 Condition Id. text : Begr. 6 fiskere jevnt fordelt



○ - UNIT LOADS

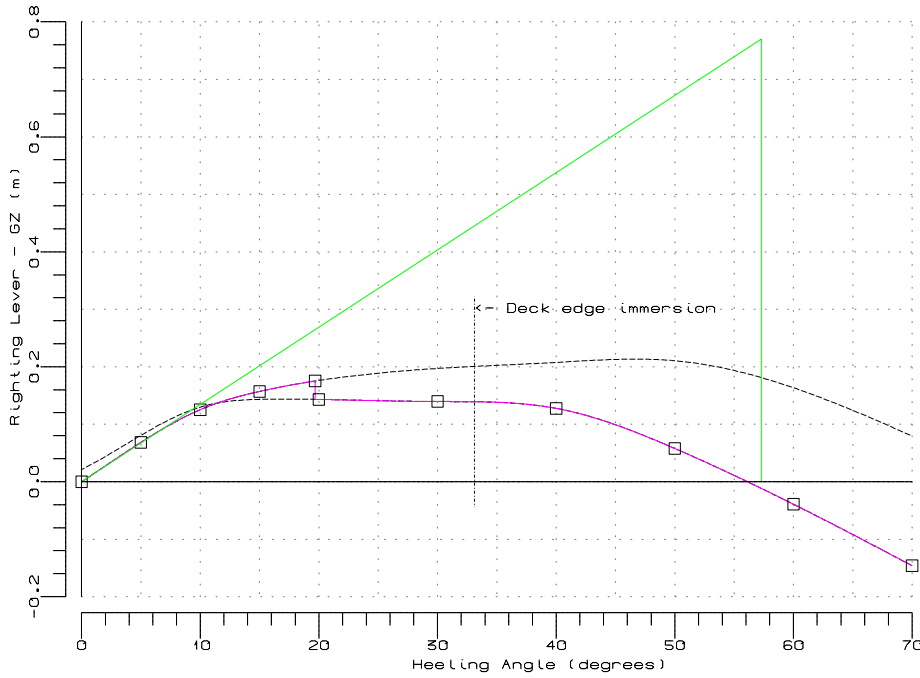


WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
DEAD WEIGHT		0.586					2.097	0.000	1.297	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.013					2.204	0.000	0.850	

Loading Condition no. : 22  
 Condition Id. text : Begr. 6 fiskere jevnt fordelt

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.069	0.0030
10.000	0.125	0.0116
15.000	0.157	0.0241
19.687	0.175	0.0378
20.000	0.143	0.0386
30.000	0.140	0.0632
40.000	0.128	0.0871
50.000	0.058	0.1040
60.000	-0.039	0.1058
70.000	-0.146	0.0898

Deck immersion : 33.125 °  
 Maximum GZ at : 19.687 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0632 m\*rad  
 Area, 0 - 40 : 0.0871 m\*rad  
 Area, 30 - 40 : 0.0239 m\*rad  
 Area, 0 - maxGZ : 0.0378 m\*rad  
 GM : 0.770 m

Heel to starboard side  
 Applied VCG : 0.850 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

## Flood Opening Results

Loading Condition no. : 22 ,Begr. 6 fiskere jevnt fordelt

No.	Identification text	Type	OvFl	X	Y	Z	Flooding Above	Sea
			Syst	(m)	(m)	(m)	Angle (degr)	(m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	19.69	0.27
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.12
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	19.69	0.06
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.12
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	41.25	0.12
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	43.75	0.78
7	Rekke akter	Ref. point		0.1	0.9	1.08	41.41	0.72
8	Rekke forut	Ref. point		4.8	0.8	1.26	58.44	0.91
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	19.69	0.14

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 22 ,Begr. 6 fiskere jevnt fordelt

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.505	0.505
2	-0.075	1.024	0.874	0.510	0.510
3	-0.050	1.017	0.933	0.570	0.570
4	-0.025	1.009	0.993	0.629	0.629
5	0.000	1.006	1.055	0.692	0.692
6	0.008	1.005	1.075	0.712	0.712
7	0.048	1.003	1.118	0.755	0.755
8	0.250	1.010	1.126	0.763	0.763
9	0.500	1.019	1.126	0.764	0.764
10	0.750	1.027	1.126	0.764	0.764
11	1.000	1.034	1.126	0.765	0.765
12	1.250	1.040	1.131	0.770	0.770
13	1.500	1.047	1.135	0.775	0.775
14	1.750	1.055	1.136	0.776	0.776
15	2.000	1.063	1.137	0.778	0.778
16	2.250	1.070	1.138	0.779	0.779
17	2.500	1.077	1.139	0.781	0.781
18	2.750	1.082	1.138	0.781	0.781
19	3.000	1.087	1.138	0.781	0.781
20	3.250	1.092	1.140	0.783	0.783
21	3.500	1.086	1.167	0.811	0.811
22	3.750	1.079	1.194	0.839	0.839
23	4.000	1.051	1.222	0.867	0.867
24	4.250	1.018	1.239	0.884	0.884
25	4.500	0.974	1.252	0.898	0.898
26	4.750	0.915	1.263	0.910	0.910
27	5.000	0.816	1.271	0.918	0.918
28	5.250	0.692	1.274	0.922	0.922
29	5.500	0.530	1.273	0.921	0.921
30	5.750	0.280	1.256	0.905	0.905
31	6.000	0.079	1.256	0.905	0.905
32	6.013	0.000	1.256	0.905	0.905

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----



Loading Condition no. : 23

## Begr. 6 fiskere i borde

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.304 m  
 Trim over Lpp (aft +) : 0.019 m  
 List (starboard +) ... : 18.082 °  
 Draught, AP (moulded) : 0.313 m  
 Draught, LCF (moulded) : 0.305 m  
 Draught, FP (moulded) : 0.294 m

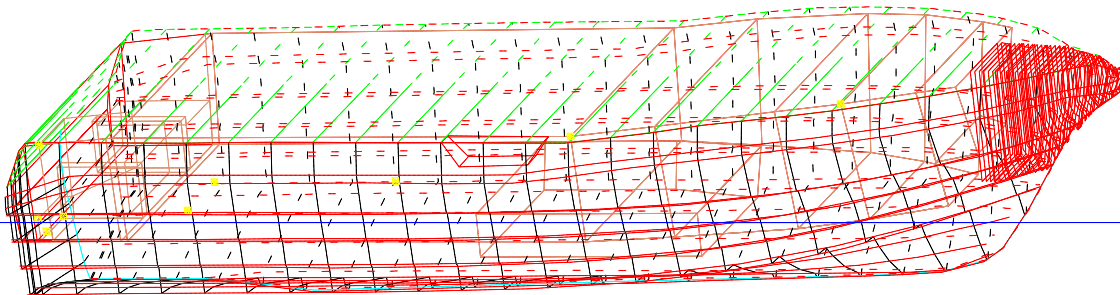
## WEIGHT SUMMARY

Begr. 6 fiskere i borde : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin : 0.1 MT  
 Total DEADWEIGHT : 0.6 MT

Displacement ..... : 2.013 MT  
 LCB (rel. AP) ..... : 2.202 m  
 VCB (rel. BL) ..... : 0.161 m  
 LCF (rel. AP) ..... : 2.401 m  
 TPC - Immersion ..... : 0.083 MT/cm  
 Trim Moment ..... : 0.030 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.850 m  
 Free Surface Correction: 0.000 m  
 GM (GZ derived) ..... : 0.770 m  
 KGmax, intact, calc. . : 99.990 m  
 Stability Margin ..... : 99.140 m  
 Stability Conclusion . : OK

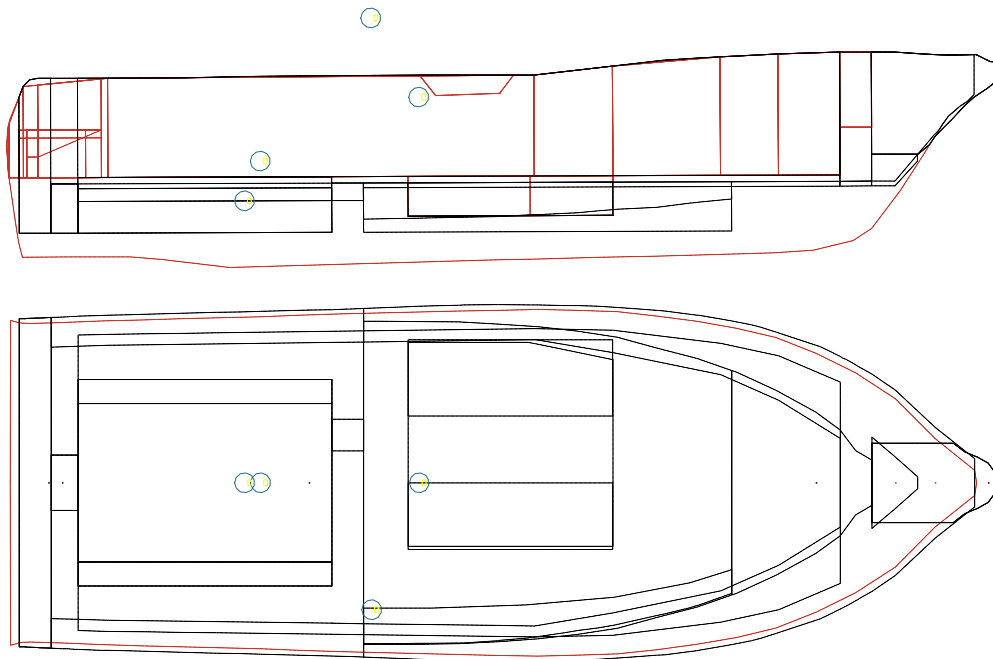


Water Density = 1.025 t/m3

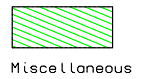
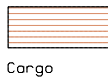
## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

Loading Condition no. : 23  
 Condition Id. text : Begr. 6 fiskere i borde



○ - UNIT LOADS

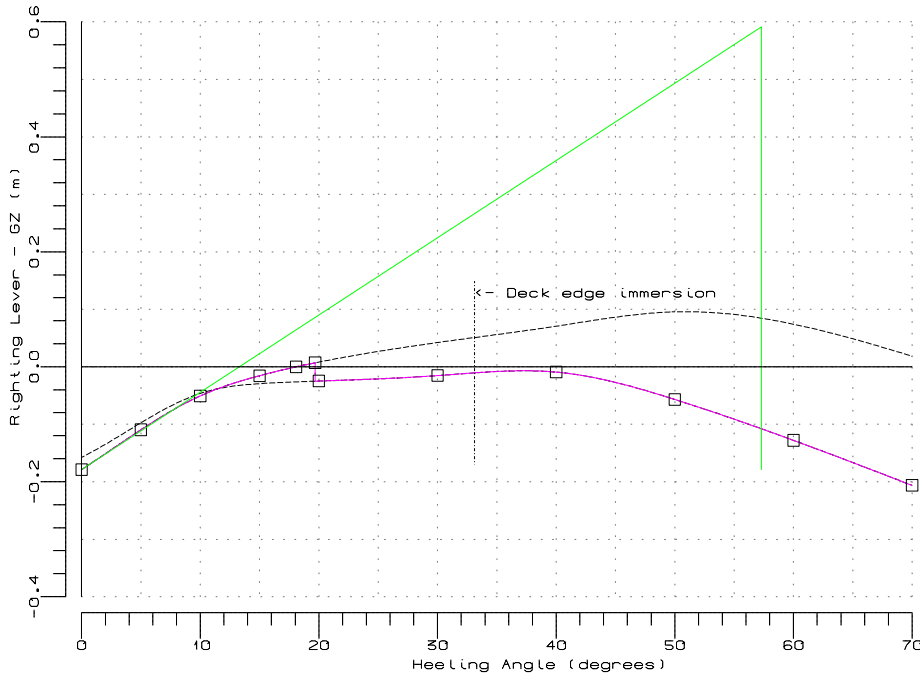


WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere i borde									
-	Personell i borde	0.450					2.200	0.800	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
DEAD WEIGHT		0.586					2.097	0.614	1.297	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.013					2.204	0.179	0.850	

Loading Condition no. : 23  
 Condition Id. text : Begr. 6 fiskere i borde

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.179	-0.0226
5.000	-0.109	-0.0100
10.000	-0.051	-0.0032
15.000	-0.016	-0.0004
18.082	0.000	0.0000
19.687	0.007	0.0001
20.000	-0.025	0.0000
30.000	-0.015	-0.0036
40.000	-0.009	-0.0053
50.000	-0.057	-0.0104
60.000	-0.128	-0.0264
70.000	-0.206	-0.0555

Deck immersion : 33.125 °  
 Maximum GZ at : 19.687 °  
 Equilibrium at : 18.082 °  
 Area, 0 - 30 : 0.0189 m\*rad  
 Area, 0 - 40 : 0.0173 m\*rad  
 Area, 30 - 40 : -0.0017 m\*rad  
 Area, 0 - maxGZ: 0.0227 m\*rad  
 GM : 0.770 m

Heel to starboard side  
 Applied VCG : 0.850 m  
 TCG : 0.179 m

Please note !

-The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).

## Flood Opening Results

Loading Condition no. : 23 ,Begr. 6 fiskere i borde

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	19.69	0.02
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	0.23
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	19.69	-0.05
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.22
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	41.25	0.07
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	43.75	0.48
7	Rekke akter	Ref. point		0.1	0.9	1.08	41.48	0.43
8	Rekke forut	Ref. point		4.8	0.8	1.26	58.28	0.66
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	19.69	0.03

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 23 ,Begr. 6 fiskere i borde

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.512	0.512
2	-0.075	1.024	0.874	0.199	0.835
3	-0.050	1.017	0.933	0.258	0.889
4	-0.025	1.009	0.993	0.317	0.944
5	0.000	1.006	1.055	0.377	1.002
6	0.008	1.005	1.075	0.397	1.020
7	0.048	1.003	1.118	0.438	1.061
8	0.250	1.010	1.126	0.444	1.071
9	0.500	1.019	1.126	0.442	1.075
10	0.750	1.027	1.126	0.441	1.078
11	1.000	1.034	1.126	0.440	1.082
12	1.250	1.040	1.131	0.443	1.089
13	1.500	1.047	1.135	0.446	1.096
14	1.750	1.055	1.136	0.445	1.100
15	2.000	1.063	1.137	0.445	1.105
16	2.250	1.070	1.138	0.444	1.108
17	2.500	1.077	1.139	0.444	1.112
18	2.750	1.082	1.138	0.442	1.114
19	3.000	1.087	1.138	0.441	1.116
20	3.250	1.092	1.140	0.442	1.120
21	3.500	1.086	1.167	0.471	1.145
22	3.750	1.079	1.194	0.500	1.170
23	4.000	1.051	1.222	0.536	1.188
24	4.250	1.018	1.239	0.563	1.195
25	4.500	0.974	1.252	0.590	1.195
26	4.750	0.915	1.263	0.620	1.188
27	5.000	0.816	1.271	0.659	1.165
28	5.250	0.692	1.274	0.702	1.131
29	5.500	0.530	1.273	0.751	1.080
30	5.750	0.280	1.256	0.814	0.988
31	6.000	0.079	1.256	0.877	0.926
32	6.013	0.000	1.256	0.902	0.902

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 24

## Begr. 5 fiskere i borde

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.326 m  
 Trim over Lpp (aft +) : 0.019 m  
 List (starboard +) ... : 12.468 °  
 Draught, AP (moulded) : 0.335 m  
 Draught, LCF (moulded) : 0.327 m  
 Draught, FP (moulded) : 0.316 m

Displacement ..... : 1.938 MT  
 LCB (rel. AP) ..... : 2.202 m  
 VCB (rel. BL) ..... : 0.193 m  
 LCF (rel. AP) ..... : 2.322 m  
 TPC - Immersion ..... : 0.084 MT/cm  
 Trim Moment ..... : 0.030 MT\*m/cm

## WEIGHT SUMMARY

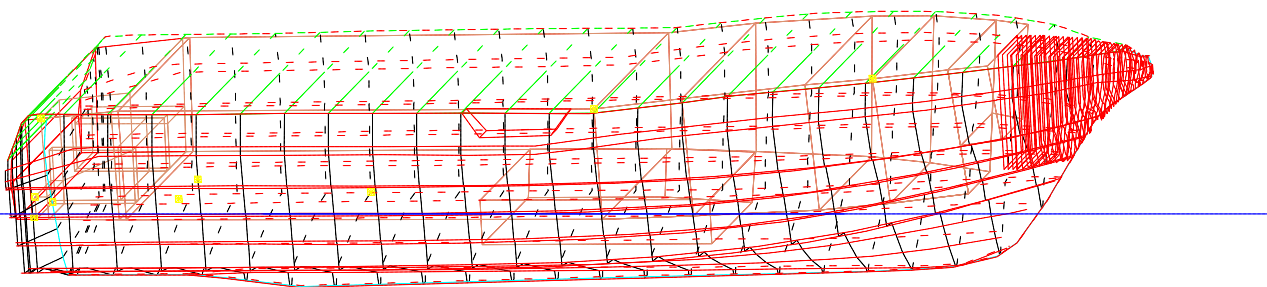
Begr. 5 fiskere i borde : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin \_ \_ \_ \_ \_ : 0.1 MT  
 Total DEADWEIGHT : 0.5 MT

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.825 m  
 Free Surface Correction: 0.000 m  
 GM (GZ derived) ..... : 0.834 m

KGmax, intact, calc. . : 99.990 m

Stability Margin ..... : 99.165 m  
 Stability Conclusion . : OK

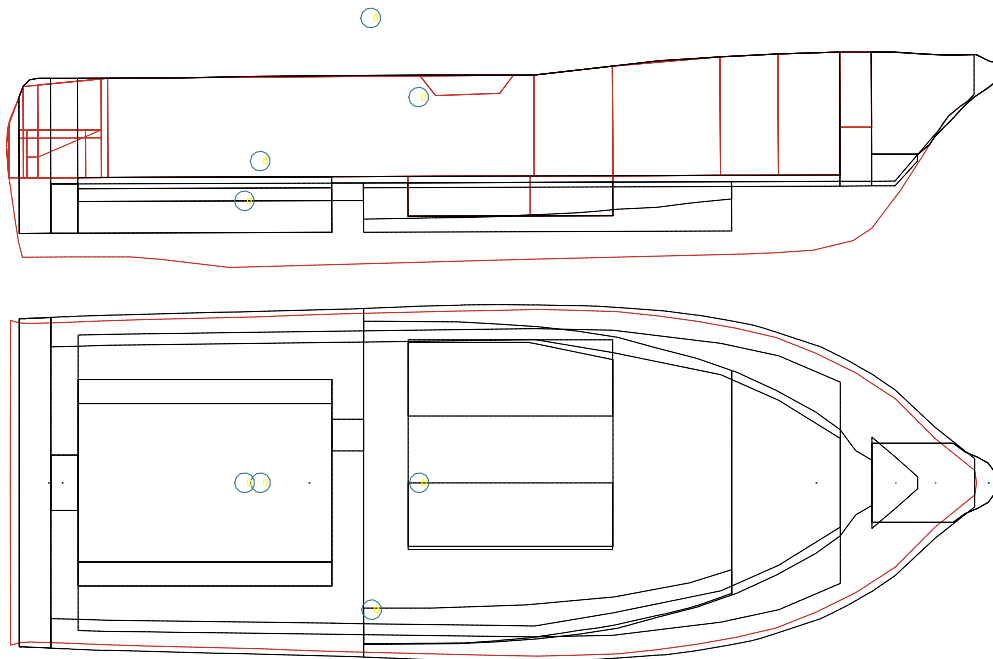


Water Density = 1.025 t/m3

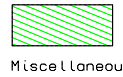
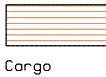
## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

Loading Condition no. : 24  
 Condition Id. text : Begr. 5 fiskere i borde



○ - UNIT LOADS

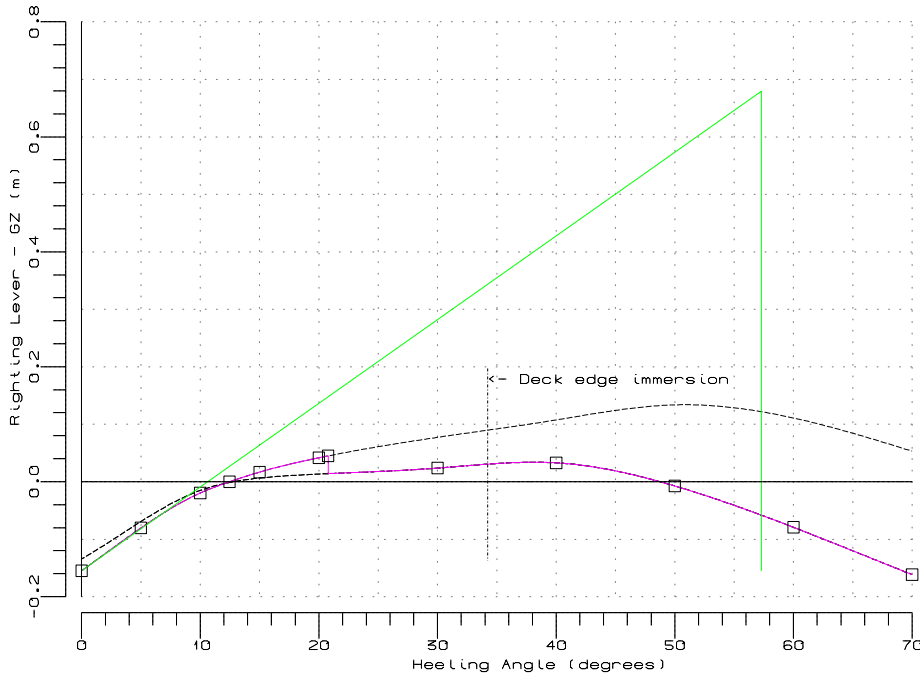


WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 5 fiskere i borde									
-	Personell i borde	0.375					2.200	0.800	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
DEAD WEIGHT		0.511					2.082	0.587	1.267	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		1.938					2.204	0.155	0.825	

Loading Condition no. : 24  
 Condition Id. text : Begr. 5 fiskere i borde

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.155	-0.0148
5.000	-0.080	-0.0046
10.000	-0.020	-0.0004
12.468	0.000	0.0000
15.000	0.017	0.0004
20.000	0.042	0.0030
20.781	0.045	0.0036
30.000	0.024	0.0066
40.000	0.033	0.0119
50.000	-0.007	0.0149
60.000	-0.079	0.0076
70.000	-0.161	-0.0134

Deck immersion : 34.219 °  
 Maximum GZ at : 20.781 °  
 Equilibrium at : 12.468 °  
 Area, 0 - 30 : 0.0214 m\*rad  
 Area, 0 - 40 : 0.0267 m\*rad  
 Area, 30 - 40 : 0.0053 m\*rad  
 Area, 0 - maxGZ: 0.0184 m\*rad  
 GM : 0.834 m

Heel to starboard side  
 Applied VCG : 0.825 m  
 TCG : 0.155 m

Please note !

-The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).



Flood Opening Results

Loading Condition no. : 24 ,Begr. 5 fiskere i borde

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	20.78	0.09
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	0.12
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	9.06	-0.02
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.19
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	47.50	0.08
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	44.84	0.58
7	Rekke akter	Ref. point		0.1	0.9	1.08	42.81	0.52
8	Rekke forut	Ref. point		4.8	0.8	1.26	59.22	0.74
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	22.81	0.07

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 24 ,Begr. 5 fiskere i borde

No.	Freeboard				
	X (m)	Y (m)	Z (m)	Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.513	0.513
2	-0.075	1.024	0.874	0.297	0.739
3	-0.050	1.017	0.933	0.356	0.795
4	-0.025	1.009	0.993	0.416	0.852
5	0.000	1.006	1.055	0.478	0.912
6	0.008	1.005	1.075	0.497	0.931
7	0.048	1.003	1.118	0.540	0.973
8	0.250	1.010	1.126	0.547	0.983
9	0.500	1.019	1.126	0.546	0.986
10	0.750	1.027	1.126	0.545	0.988
11	1.000	1.034	1.126	0.545	0.991
12	1.250	1.040	1.131	0.549	0.998
13	1.500	1.047	1.135	0.552	1.004
14	1.750	1.055	1.136	0.552	1.008
15	2.000	1.063	1.137	0.553	1.012
16	2.250	1.070	1.138	0.553	1.015
17	2.500	1.077	1.139	0.553	1.018
18	2.750	1.082	1.138	0.552	1.019
19	3.000	1.087	1.138	0.551	1.021
20	3.250	1.092	1.140	0.553	1.024
21	3.500	1.086	1.167	0.582	1.051
22	3.750	1.079	1.194	0.611	1.077
23	4.000	1.051	1.222	0.645	1.099
24	4.250	1.018	1.239	0.669	1.109
25	4.500	0.974	1.252	0.692	1.113
26	4.750	0.915	1.263	0.717	1.112
27	5.000	0.816	1.271	0.747	1.099
28	5.250	0.692	1.274	0.778	1.077
29	5.500	0.530	1.273	0.812	1.041
30	5.750	0.280	1.256	0.851	0.972
31	6.000	0.079	1.256	0.895	0.928
32	6.013	0.000	1.256	0.912	0.912

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 25

Begr. 6 fiskere akterut

FLOATING CONDITION DATA

Mean Draught (moulded) : 0.343 m  
 Trim over Lpp (aft +) : 0.186 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.435 m  
 Draught, LCF (moulded) : 0.360 m  
 Draught, FP (moulded) : 0.250 m

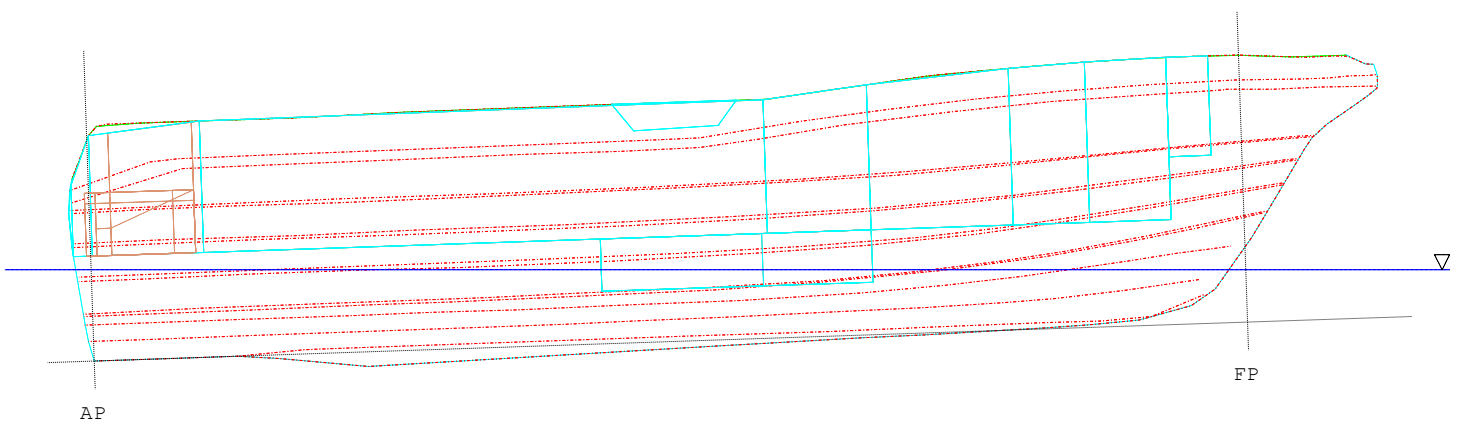
WEIGHT SUMMARY

Begr. 6 fiskere akterut : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin : 0.1 MT  
 Total DEADWEIGHT : 0.6 MT

Displacement ..... : 2.012 MT  
 LCB (rel. AP) ..... : 1.915 m  
 VCB (rel. BL) ..... : 0.241 m  
 LCF (rel. AP) ..... : 2.227 m  
 TPC - Immersion ..... : 0.093 MT/cm  
 Trim Moment ..... : 0.029 MT\*m/cm

STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.850 m  
 Free Surface Correction: 0.000 m  
 KM (metacentre) ..... : 1.594 m  
 GM (incl. FSC) ..... : 0.744 m  
  
 KGmax, intact, calc. . : 99.990 m  
  
 Stability Margin ..... : 99.140 m  
 Stability Conclusion . : OK

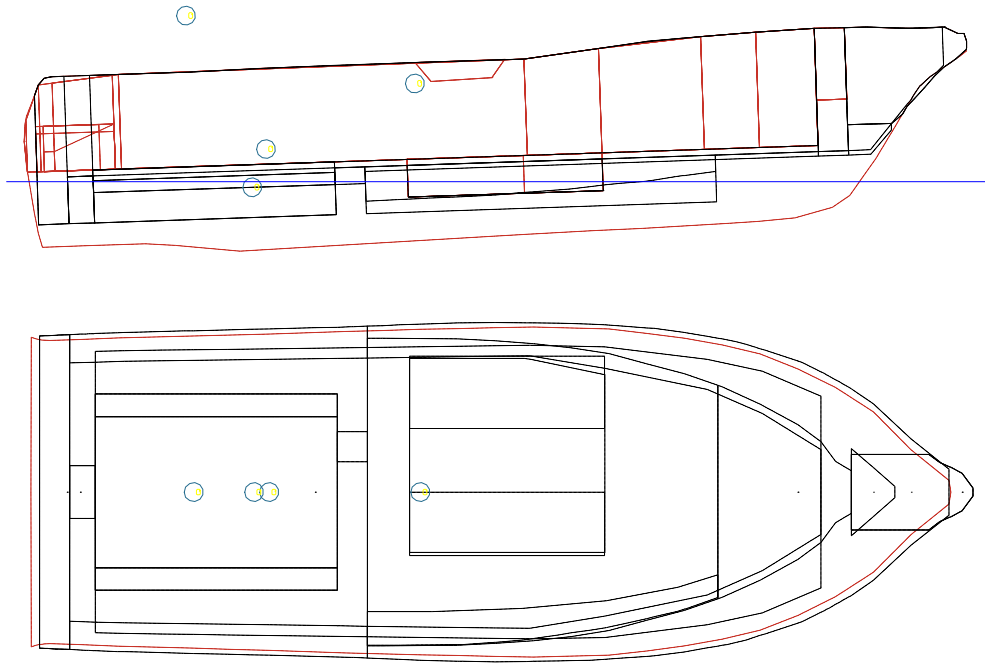


Water Density = 1.025 t/m3

Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

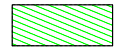
Loading Condition no. : 25  
 Condition Id. text : Begr. 6 fiskere akterut



○ - UNIT LOADS



Cargo



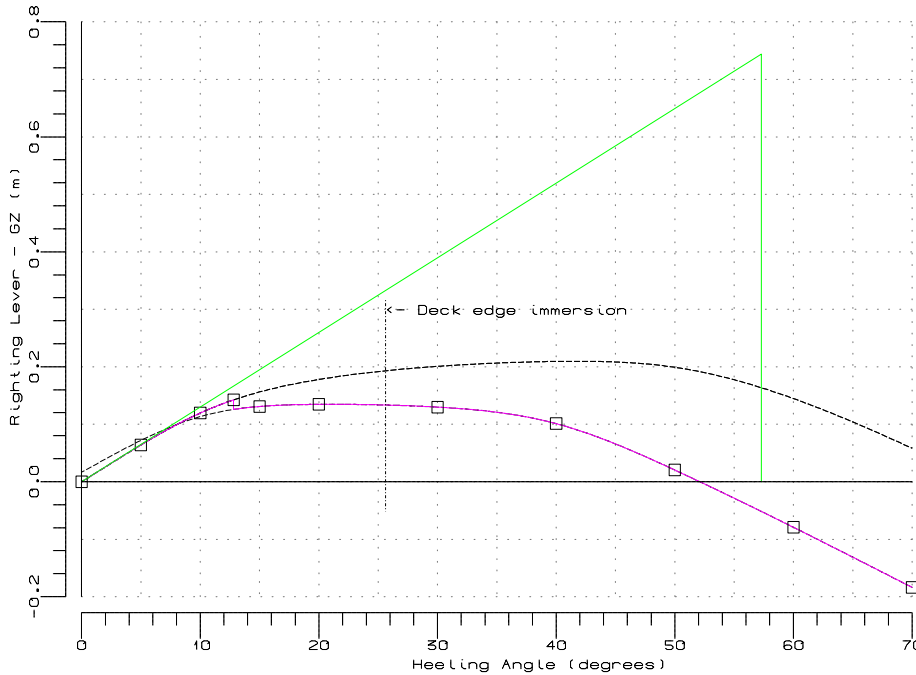
Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere akterut									
-	Personer akterut	0.450					1.000	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
DEAD WEIGHT		0.586					1.176	0.000	1.297	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.013					1.936	0.000	0.850	

Loading Condition no. : 25  
 Condition Id. text : Begr. 6 fiskere akterut

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.064	0.0028
10.000	0.120	0.0109
12.812	0.142	0.0174
15.000	0.131	0.0223
20.000	0.135	0.0339
30.000	0.130	0.0572
40.000	0.101	0.0780
50.000	0.020	0.0892
60.000	-0.079	0.0842
70.000	-0.184	0.0613

Deck immersion : 25.625 °  
 Maximum GZ at : 12.812 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0572 m\*rad  
 Area, 0 - 40 : 0.0780 m\*rad  
 Area, 30 - 40 : 0.0208 m\*rad  
 Area, 0 - maxGZ : 0.0174 m\*rad  
 GM : 0.744 m

Heel to starboard side  
 Applied VCG : 0.850 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

Flood Opening Results

Loading Condition no. : 25 ,Begr. 6 fiskere akterut

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	12.81	0.20
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.14
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.02
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.07
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	12.81	0.07
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	46.25	0.81
7	Rekke akter	Ref. point		0.1	0.9	1.08	33.67	0.65
8	Rekke forut	Ref. point		4.8	0.8	1.26	**	0.99
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	9.06	0.07

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 25 ,Begr. 6 fiskere akterut

No.	Freeboard				
	X (m)	Y (m)	Z (m)	Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.431	0.431
2	-0.075	1.024	0.874	0.435	0.435
3	-0.050	1.017	0.933	0.496	0.496
4	-0.025	1.009	0.993	0.556	0.556
5	0.000	1.006	1.055	0.619	0.619
6	0.008	1.005	1.075	0.639	0.639
7	0.048	1.003	1.118	0.684	0.684
8	0.250	1.010	1.126	0.699	0.699
9	0.500	1.019	1.126	0.707	0.707
10	0.750	1.027	1.126	0.715	0.715
11	1.000	1.034	1.126	0.724	0.724
12	1.250	1.040	1.131	0.737	0.737
13	1.500	1.047	1.135	0.750	0.750
14	1.750	1.055	1.136	0.759	0.759
15	2.000	1.063	1.137	0.769	0.769
16	2.250	1.070	1.138	0.778	0.778
17	2.500	1.077	1.139	0.788	0.788
18	2.750	1.082	1.138	0.795	0.795
19	3.000	1.087	1.138	0.803	0.803
20	3.250	1.092	1.140	0.813	0.813
21	3.500	1.086	1.167	0.849	0.849
22	3.750	1.079	1.194	0.885	0.885
23	4.000	1.051	1.222	0.921	0.921
24	4.250	1.018	1.239	0.946	0.946
25	4.500	0.974	1.252	0.968	0.968
26	4.750	0.915	1.263	0.988	0.988
27	5.000	0.816	1.271	1.004	1.004
28	5.250	0.692	1.274	1.016	1.016
29	5.500	0.530	1.273	1.022	1.022
30	5.750	0.280	1.256	1.015	1.015
31	6.000	0.079	1.256	1.022	1.022
32	6.013	0.000	1.256	1.023	1.023

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 26

Begr. fiskere jevnt ford.- 0.1 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.368 m  
 Trim over Lpp (aft +) : 0.014 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.375 m  
 Draught, LCF (moulded) : 0.369 m  
 Draught, FP (moulded) : 0.361 m

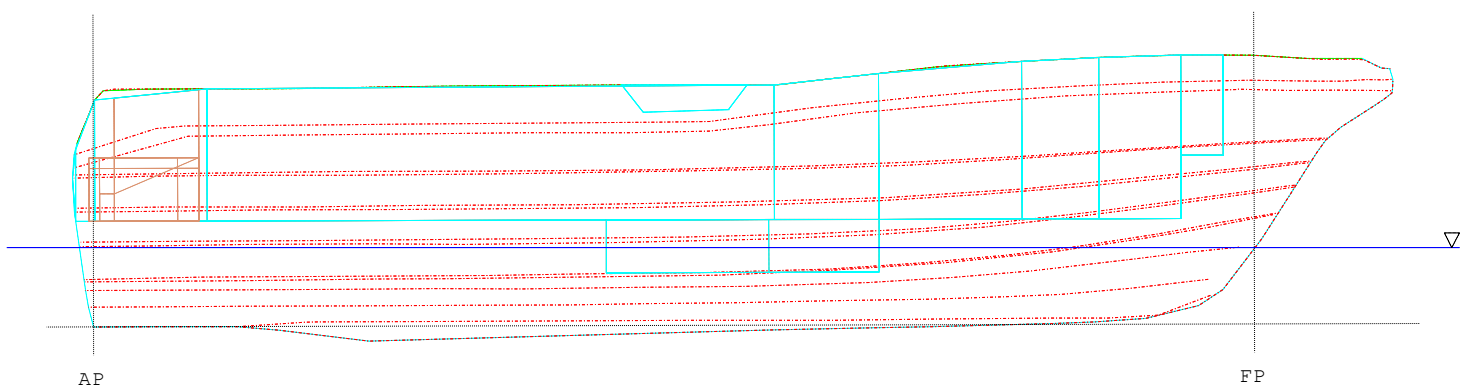
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.1 MT  
 Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin\_ \_ \_ \_ \_ : 0.1 MT  
 Total DEADWEIGHT : 0.7 MT

Displacement ..... : 2.113 MT  
 LCB (rel. AP) ..... : 2.205 m  
 VCB (rel. BL) ..... : 0.242 m  
 LCF (rel. AP) ..... : 2.326 m  
 TPC - Immersion ..... : 0.096 MT/cm  
 Trim Moment ..... : 0.034 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.968 m  
 Free Surface Correction: 0.150 m  
 KM (metacentre) ..... : 1.568 m  
 GM (incl. FSC) ..... : 0.600 m



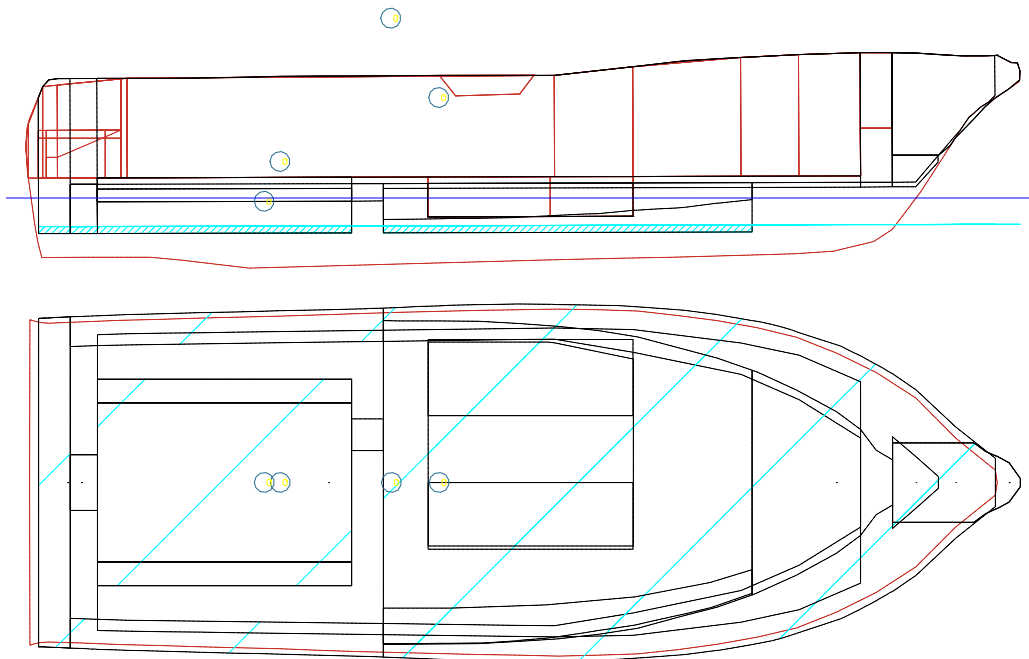
Water Density = 1.025 t/m3

Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.



Loading Condition no. : 26  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.1 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

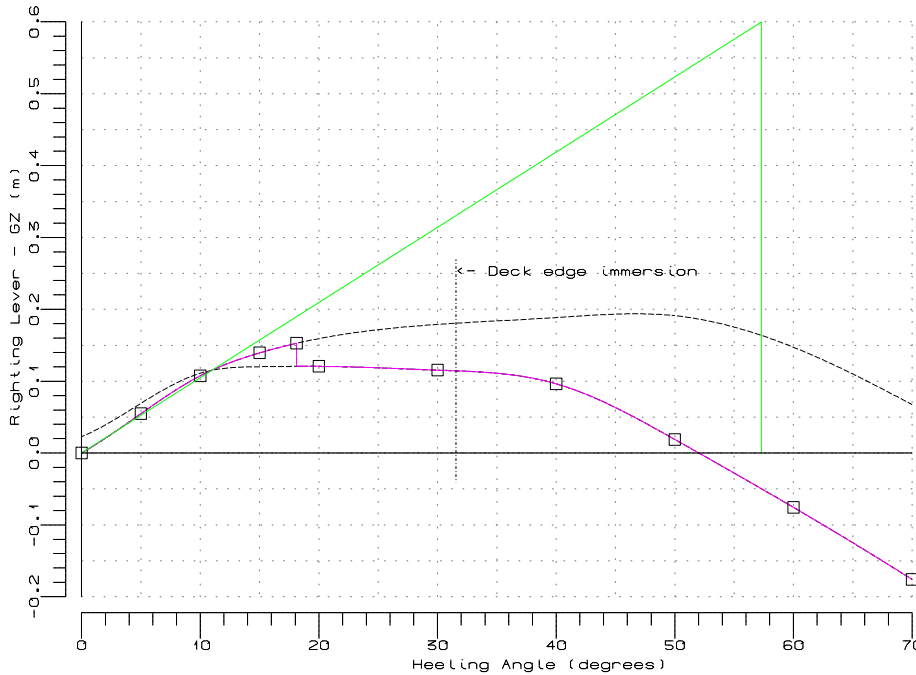
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.100	3.8	1.0250	-0.02	6.16	2.244	0.000	0.164	0.32
DEAD WEIGHT		0.686					2.119	0.000	1.132	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.113					2.206	0.000	0.818	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 26  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.1 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.055	0.0023
10.000	0.107	0.0095
15.000	0.139	0.0204
18.125	0.153	0.0284
20.000	0.121	0.0323
30.000	0.115	0.0530
40.000	0.096	0.0721
50.000	0.019	0.0828
60.000	-0.076	0.0779
70.000	-0.176	0.0561

Deck immersion : 31.562 °  
 Maximum GZ at : 18.125 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0530 m\*rad  
 Area, 0 - 40 : 0.0721 m\*rad  
 Area, 30 - 40 : 0.0191 m\*rad  
 Area, 0 - maxGZ : 0.0284 m\*rad  
 GM : 0.600 m

Heel to starboard side  
 Applied VCG : 0.818 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

FREE SURFACE EFFECTS ON GZ-VALUES

-----

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	0.000	0.000
5.000	0.055	0.067
10.000	0.107	0.127
15.000	0.139	0.162
20.000	0.121	0.146
30.000	0.115	0.148
40.000	0.096	0.135
50.000	0.019	0.059
60.000	-0.076	-0.036
70.000	-0.176	-0.139

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

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Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.012	0.001
10.000	0.019	0.001
15.000	0.023	0.002
20.000	0.026	0.003
30.000	0.033	0.007
40.000	0.040	0.012
50.000	0.044	0.016
60.000	0.045	0.019
70.000	0.046	0.022

Compartment no. 2 Id. text : Indre volum

-----

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.100	1.025	2.847	0.000	0.168
5.000	0.100	1.025	2.622	0.256	0.177
10.000	0.100	1.025	2.329	0.410	0.195
15.000	0.100	1.025	2.198	0.488	0.212
20.000	0.100	1.025	2.147	0.541	0.228
30.000	0.100	1.025	1.997	0.705	0.308
40.000	0.100	1.025	1.668	0.848	0.412
50.000	0.100	1.025	1.200	0.920	0.504
60.000	0.100	1.025	0.904	0.949	0.573
70.000	0.100	1.025	0.713	0.961	0.636

Equilibrium:

0.000	1.690	1.025	2.518	0.414	0.499
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Vertical dist. betw. sea and comp. level at equilibrium : 0.605m

26. Limited load – 6 fishermen uniformly distributed – 0,1 t water below innerliner

Flood Opening Results

Loading Condition no. : 26 ,Begr. fiskere jevnt ford.- 0.1 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	18.12	0.26
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.13
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	5.47	0.04
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.11
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	25.62	0.11
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	42.66	0.77
7	Rekke akter	Ref. point		0.1	0.9	1.08	38.91	0.71
8	Rekke forut	Ref. point		4.8	0.8	1.26	59.69	0.90
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	18.12	0.13

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 26 ,Begr. fiskere jevnt ford.- 0.1 t vann u/innerl

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.494	0.494
2	-0.075	1.024	0.874	0.498	0.498
3	-0.050	1.017	0.933	0.558	0.558
4	-0.025	1.009	0.993	0.618	0.618
5	0.000	1.006	1.055	0.680	0.680
6	0.008	1.005	1.075	0.700	0.700
7	0.048	1.003	1.118	0.743	0.743
8	0.250	1.010	1.126	0.752	0.752
9	0.500	1.019	1.126	0.752	0.752
10	0.750	1.027	1.126	0.753	0.753
11	1.000	1.034	1.126	0.754	0.754
12	1.250	1.040	1.131	0.759	0.759
13	1.500	1.047	1.135	0.764	0.764
14	1.750	1.055	1.136	0.766	0.766
15	2.000	1.063	1.137	0.767	0.767
16	2.250	1.070	1.138	0.769	0.769
17	2.500	1.077	1.139	0.770	0.770
18	2.750	1.082	1.138	0.770	0.770
19	3.000	1.087	1.138	0.770	0.770
20	3.250	1.092	1.140	0.773	0.773
21	3.500	1.086	1.167	0.801	0.801
22	3.750	1.079	1.194	0.829	0.829
23	4.000	1.051	1.222	0.857	0.857
24	4.250	1.018	1.239	0.874	0.874
25	4.500	0.974	1.252	0.888	0.888
26	4.750	0.915	1.263	0.901	0.901
27	5.000	0.816	1.271	0.909	0.909
28	5.250	0.692	1.274	0.913	0.913
29	5.500	0.530	1.273	0.912	0.912
30	5.750	0.280	1.256	0.896	0.896
31	6.000	0.079	1.256	0.896	0.896
32	6.013	0.000	1.256	0.897	0.897

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 27

Begr. fiskere jevnt ford.- 0.2 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.378 m  
 Trim over Lpp (aft +) : 0.017 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.386 m  
 Draught, LCF (moulded) : 0.379 m  
 Draught, FP (moulded) : 0.370 m

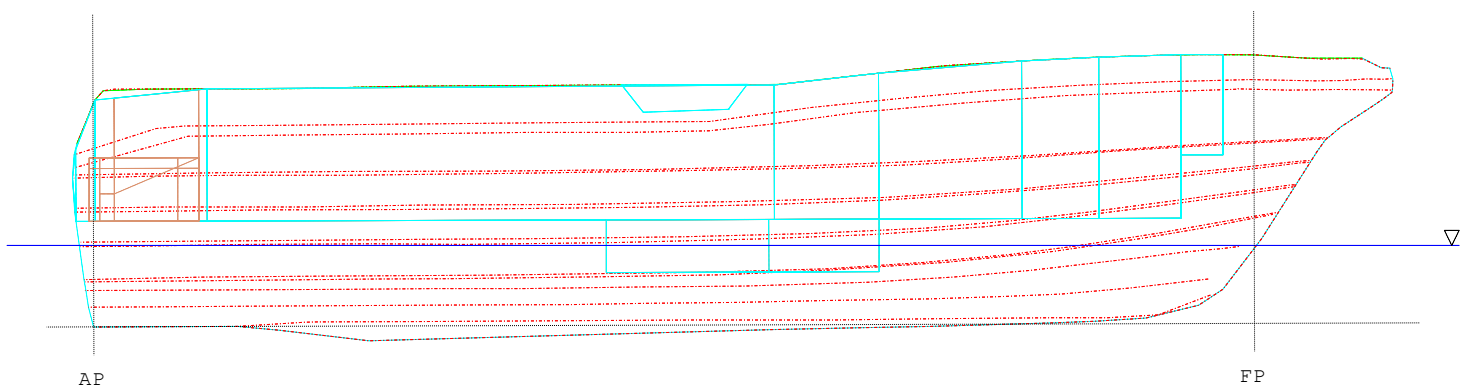
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.2 MT  
 Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin\_ \_ \_ \_ \_ : 0.1 MT  
 Total DEADWEIGHT : 0.8 MT

Displacement ..... : 2.213 MT  
 LCB (rel. AP) ..... : 2.206 m  
 VCB (rel. BL) ..... : 0.248 m  
 LCF (rel. AP) ..... : 2.329 m  
 TPC - Immersion ..... : 0.096 MT/cm  
 Trim Moment ..... : 0.034 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 1.005 m  
 Free Surface Correction: 0.216 m  
 KM (metacentre) ..... : 1.522 m  
 GM (incl. FSC) ..... : 0.516 m

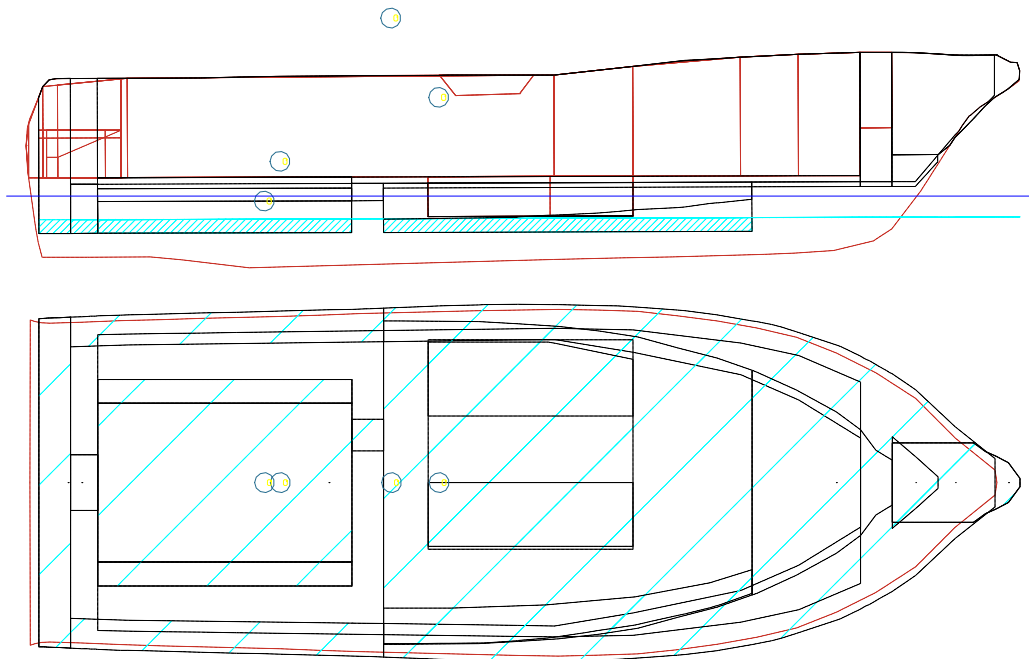


Water Density = 1.025 t/m3

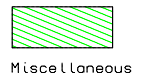
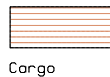
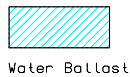
Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 27  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.2 t vann u/innerliner



○ - UNIT LOADS



WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.200	7.7	1.0250	-0.02	6.16	2.249	0.000	0.176	0.48
DEAD WEIGHT		0.786					2.136	0.000	1.012	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.213					2.208	0.000	0.790	

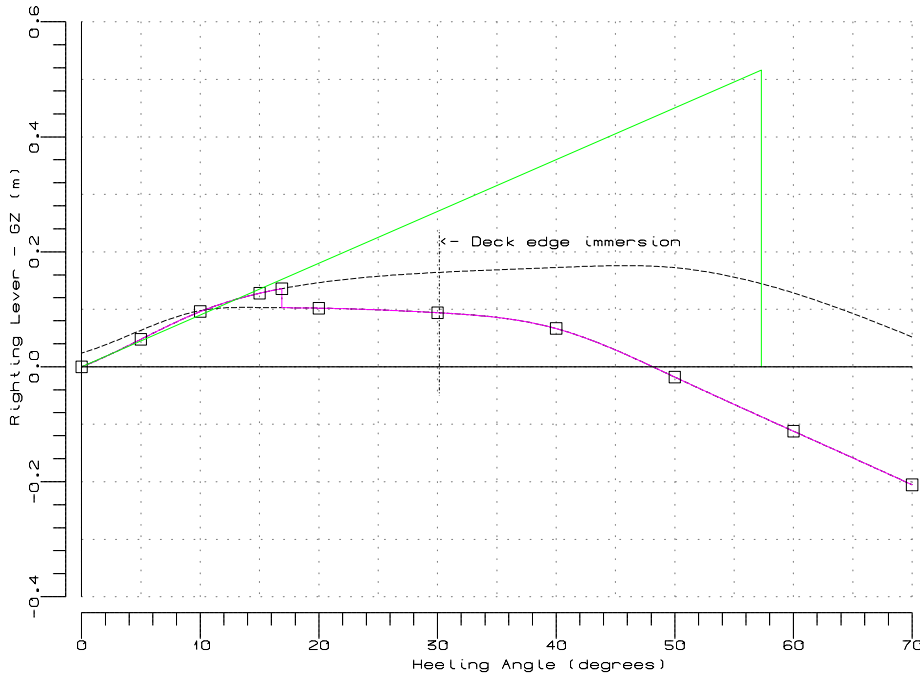
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- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 27  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.2 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.048	0.0020
10.000	0.096	0.0084
15.000	0.128	0.0183
16.875	0.136	0.0226
20.000	0.102	0.0282
30.000	0.094	0.0454
40.000	0.066	0.0601
50.000	-0.018	0.0649
60.000	-0.112	0.0535
70.000	-0.205	0.0259

Deck immersion : 30.156 °  
 Maximum GZ at : 16.875 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0454 m\*rad  
 Area, 0 - 40 : 0.0601 m\*rad  
 Area, 30 - 40 : 0.0147 m\*rad  
 Area, 0 - maxGZ: 0.0226 m\*rad  
 GM : 0.516 m

Heel to starboard side  
 Applied VCG : 0.790 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	0.000	0.000
5.000	0.048	0.066
10.000	0.096	0.127
15.000	0.128	0.166
20.000	0.102	0.147
30.000	0.094	0.153
40.000	0.066	0.136
50.000	-0.018	0.059
60.000	-0.112	-0.033
70.000	-0.205	-0.131

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.018	0.001
10.000	0.031	0.003
15.000	0.038	0.004
20.000	0.045	0.006
30.000	0.061	0.014
40.000	0.072	0.022
50.000	0.081	0.033
60.000	0.085	0.042
70.000	0.087	0.047

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.200	1.025	2.615	0.000	0.180
5.000	0.200	1.025	2.529	0.201	0.188
10.000	0.200	1.025	2.391	0.349	0.206
15.000	0.200	1.025	2.282	0.427	0.223
20.000	0.200	1.025	2.234	0.499	0.246
30.000	0.200	1.025	2.009	0.670	0.327
40.000	0.200	1.025	1.751	0.798	0.423
50.000	0.200	1.025	1.400	0.894	0.539
60.000	0.200	1.025	1.173	0.943	0.637
70.000	0.200	1.025	1.064	0.960	0.697
Equilibrium:					
0.000	1.690	1.025	2.518	0.414	0.499

Vertical dist. betw. sea and comp. level at equilibrium : 0.605m

27. Limited load – 6 fishermen uniformly distributed – 0,2 t water below innerliner

## Flood Opening Results

Loading Condition no. : 27 ,Begr. fiskere jevnt ford.- 0.2 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	16.87	0.24
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.14
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	3.75	0.03
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.10
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	19.37	0.10
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	41.41	0.76
7	Rekke akter	Ref. point		0.1	0.9	1.08	36.72	0.70
8	Rekke forut	Ref. point		4.8	0.8	1.26	59.84	0.89
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	16.87	0.12

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 27 ,Begr. fiskere jevnt ford.- 0.2 t vann u/innerl

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.482	0.482
2	-0.075	1.024	0.874	0.487	0.487
3	-0.050	1.017	0.933	0.547	0.547
4	-0.025	1.009	0.993	0.606	0.606
5	0.000	1.006	1.055	0.669	0.669
6	0.008	1.005	1.075	0.689	0.689
7	0.048	1.003	1.118	0.732	0.732
8	0.250	1.010	1.126	0.740	0.740
9	0.500	1.019	1.126	0.741	0.741
10	0.750	1.027	1.126	0.742	0.742
11	1.000	1.034	1.126	0.743	0.743
12	1.250	1.040	1.131	0.748	0.748
13	1.500	1.047	1.135	0.753	0.753
14	1.750	1.055	1.136	0.755	0.755
15	2.000	1.063	1.137	0.757	0.757
16	2.250	1.070	1.138	0.758	0.758
17	2.500	1.077	1.139	0.760	0.760
18	2.750	1.082	1.138	0.760	0.760
19	3.000	1.087	1.138	0.760	0.760
20	3.250	1.092	1.140	0.763	0.763
21	3.500	1.086	1.167	0.791	0.791
22	3.750	1.079	1.194	0.819	0.819
23	4.000	1.051	1.222	0.848	0.848
24	4.250	1.018	1.239	0.865	0.865
25	4.500	0.974	1.252	0.879	0.879
26	4.750	0.915	1.263	0.891	0.891
27	5.000	0.816	1.271	0.899	0.899
28	5.250	0.692	1.274	0.904	0.904
29	5.500	0.530	1.273	0.903	0.903
30	5.750	0.280	1.256	0.887	0.887
31	6.000	0.079	1.256	0.887	0.887
32	6.013	0.000	1.256	0.888	0.888

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 28

Begr. fiskere jevnt ford.- 0.3 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.388 m  
 Trim over Lpp (aft +) : 0.019 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.398 m  
 Draught, LCF (moulded) : 0.390 m  
 Draught, FP (moulded) : 0.379 m

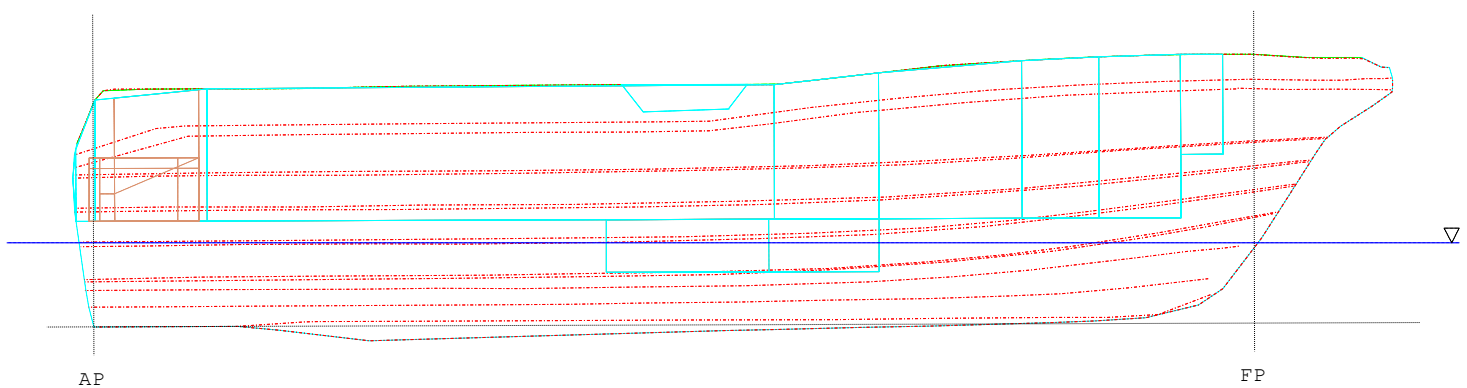
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.3 MT  
 Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin : 0.1 MT  
 Total DEADWEIGHT : 0.9 MT

Displacement ..... : 2.314 MT  
 LCB (rel. AP) ..... : 2.209 m  
 VCB (rel. BL) ..... : 0.254 m  
 LCF (rel. AP) ..... : 2.340 m  
 TPC - Immersion ..... : 0.097 MT/cm  
 Trim Moment ..... : 0.035 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 1.041 m  
 Free Surface Correction: 0.276 m  
 KM (metacentre) ..... : 1.493 m  
 GM (incl. FSC) ..... : 0.452 m

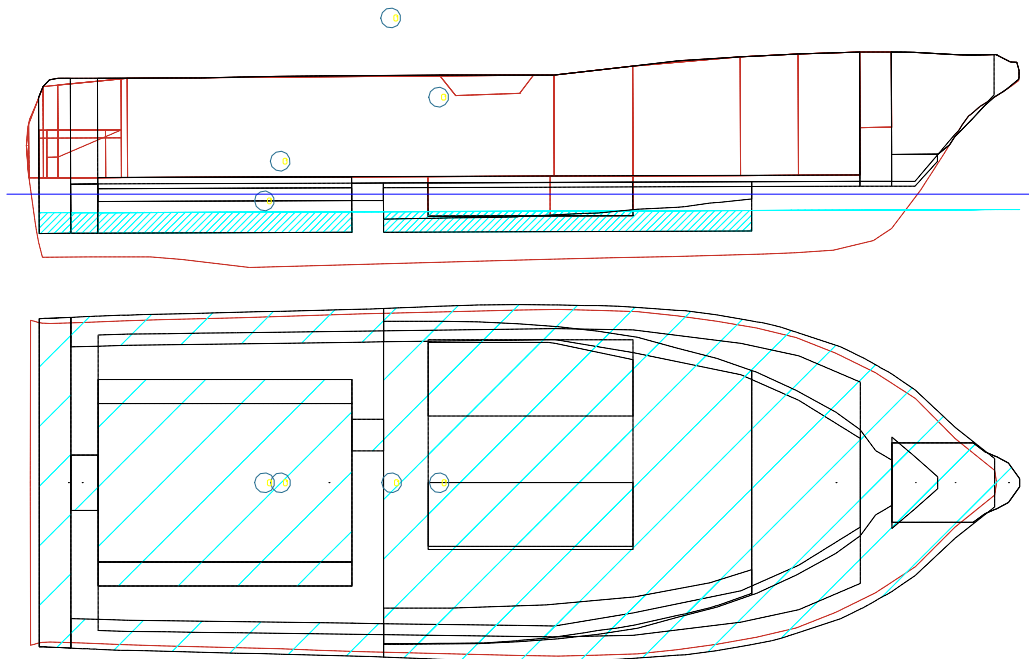


Water Density = 1.025 t/m3

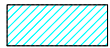
Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 28  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.3 t vann u/innerliner



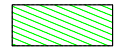
○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.300	11.5	1.0250	-0.02	6.16	2.254	0.000	0.189	0.64
DEAD WEIGHT		0.886					2.150	0.000	0.922	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.313					2.211	0.000	0.765	

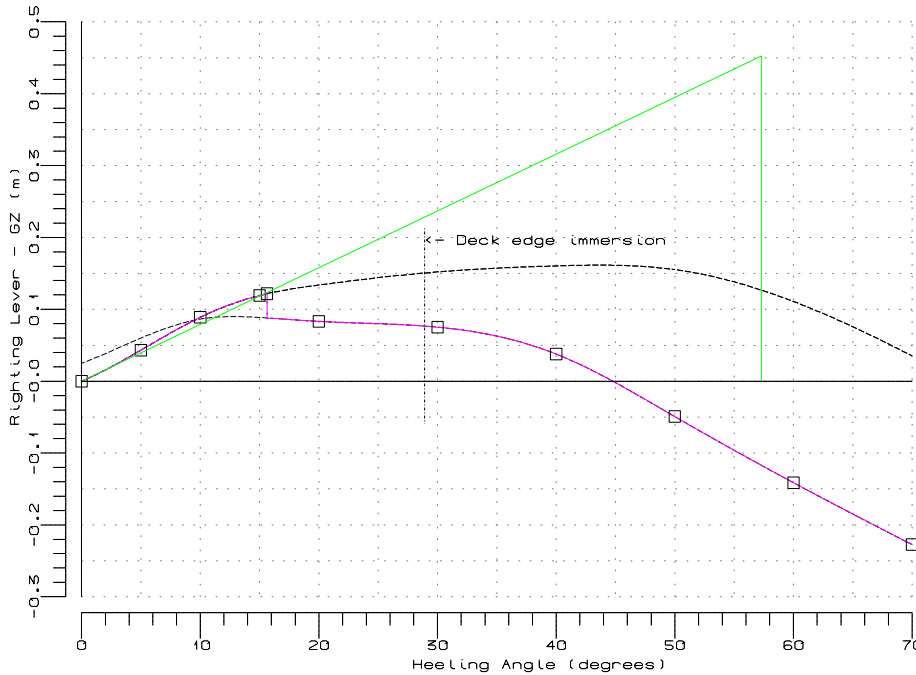
.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.



Loading Condition no. : 28  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.3 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.043	0.0018
10.000	0.089	0.0076
15.000	0.119	0.0168
15.625	0.122	0.0181
20.000	0.083	0.0247
30.000	0.075	0.0386
40.000	0.038	0.0492
50.000	-0.049	0.0486
60.000	-0.141	0.0319
70.000	-0.227	-0.0004

Deck immersion : 28.906 °  
 Maximum GZ at : 15.625 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0386 m\*rad  
 Area, 0 - 40 : 0.0492 m\*rad  
 Area, 30 - 40 : 0.0106 m\*rad  
 Area, 0 - maxGZ: 0.0181 m\*rad  
 GM : 0.452 m

Heel to starboard side  
 Applied VCG : 0.765 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	0.000	0.000
5.000	0.043	0.065
10.000	0.089	0.127
15.000	0.119	0.169
20.000	0.083	0.146
30.000	0.075	0.157
40.000	0.038	0.133
50.000	-0.049	0.057
60.000	-0.141	-0.031
70.000	-0.227	-0.122

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.022	0.001
10.000	0.038	0.003
15.000	0.050	0.006
20.000	0.063	0.010
30.000	0.083	0.019
40.000	0.098	0.031
50.000	0.110	0.046
60.000	0.118	0.059
70.000	0.123	0.067

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.300	1.025	2.537	0.000	0.192
5.000	0.300	1.025	2.475	0.169	0.198
10.000	0.300	1.025	2.403	0.298	0.214
15.000	0.300	1.025	2.304	0.386	0.234
20.000	0.300	1.025	2.208	0.488	0.266
30.000	0.300	1.025	1.992	0.640	0.339
40.000	0.300	1.025	1.714	0.755	0.429
50.000	0.300	1.025	1.452	0.848	0.543
60.000	0.300	1.025	1.376	0.912	0.646
70.000	0.300	1.025	1.423	0.948	0.709
Equilibrium:					
0.000	1.690	1.025	2.518	0.414	0.499

Vertical dist. betw. sea and comp. level at equilibrium : 0.605m

28. Limited load – 6 fishermen uniformly distributed – 0,3 t water below innerliner

## Flood Opening Results

Loading Condition no. : 28 ,Begr. fiskere jevnt ford.- 0.3 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	15.62	0.23
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.15
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	2.34	0.02
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.08
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	15.62	0.08
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	40.16	0.75
7	Rekke akter	Ref. point		0.1	0.9	1.08	34.53	0.69
8	Rekke forut	Ref. point		4.8	0.8	1.26	59.37	0.88
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	15.00	0.11

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 28 ,Begr. fiskere jevnt ford.- 0.3 t vann u/innerl

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.471	0.471
2	-0.075	1.024	0.874	0.476	0.476
3	-0.050	1.017	0.933	0.535	0.535
4	-0.025	1.009	0.993	0.595	0.595
5	0.000	1.006	1.055	0.657	0.657
6	0.008	1.005	1.075	0.677	0.677
7	0.048	1.003	1.118	0.720	0.720
8	0.250	1.010	1.126	0.729	0.729
9	0.500	1.019	1.126	0.730	0.730
10	0.750	1.027	1.126	0.731	0.731
11	1.000	1.034	1.126	0.732	0.732
12	1.250	1.040	1.131	0.737	0.737
13	1.500	1.047	1.135	0.742	0.742
14	1.750	1.055	1.136	0.744	0.744
15	2.000	1.063	1.137	0.746	0.746
16	2.250	1.070	1.138	0.748	0.748
17	2.500	1.077	1.139	0.750	0.750
18	2.750	1.082	1.138	0.750	0.750
19	3.000	1.087	1.138	0.750	0.750
20	3.250	1.092	1.140	0.753	0.753
21	3.500	1.086	1.167	0.781	0.781
22	3.750	1.079	1.194	0.809	0.809
23	4.000	1.051	1.222	0.838	0.838
24	4.250	1.018	1.239	0.855	0.855
25	4.500	0.974	1.252	0.869	0.869
26	4.750	0.915	1.263	0.882	0.882
27	5.000	0.816	1.271	0.890	0.890
28	5.250	0.692	1.274	0.894	0.894
29	5.500	0.530	1.273	0.893	0.893
30	5.750	0.280	1.256	0.878	0.878
31	6.000	0.079	1.256	0.878	0.878
32	6.013	0.000	1.256	0.879	0.879

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 29

Begr. fiskere jevnt ford.- 0.4 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.398 m  
 Trim over Lpp (aft +) : 0.021 m  
 List (starboard +) ... : 0.000 °  
 Draught, AP (moulded) : 0.409 m  
 Draught, LCF (moulded) : 0.400 m  
 Draught, FP (moulded) : 0.388 m

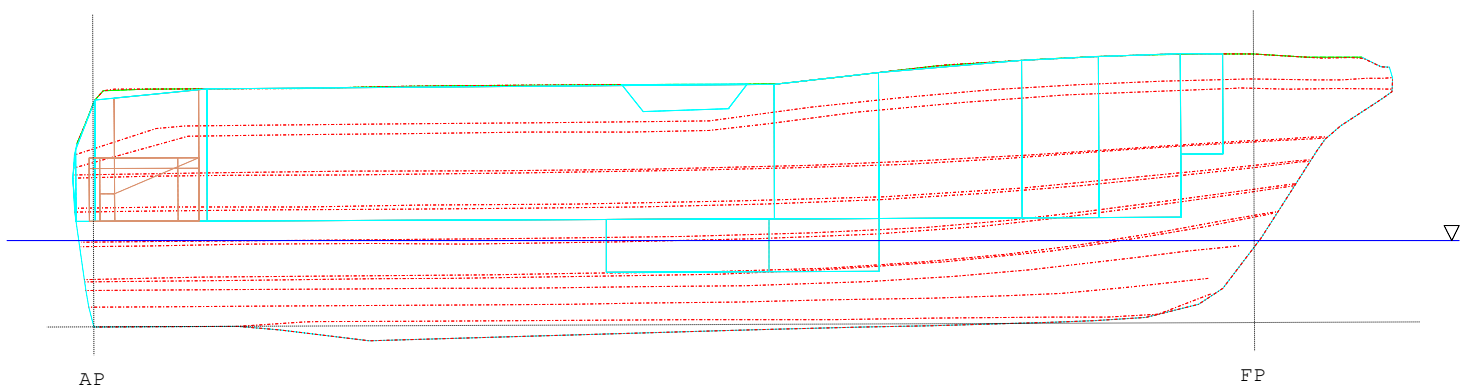
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.4 MT  
 Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin : 0.1 MT  
 Total DEADWEIGHT : 1.0 MT

Displacement ..... : 2.413 MT  
 LCB (rel. AP) ..... : 2.211 m  
 VCB (rel. BL) ..... : 0.260 m  
 LCF (rel. AP) ..... : 2.342 m  
 TPC - Immersion ..... : 0.098 MT/cm  
 Trim Moment ..... : 0.035 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 1.074 m  
 Free Surface Correction: 0.331 m  
 KM (metacentre) ..... : 1.470 m  
 GM (incl. FSC) ..... : 0.397 m

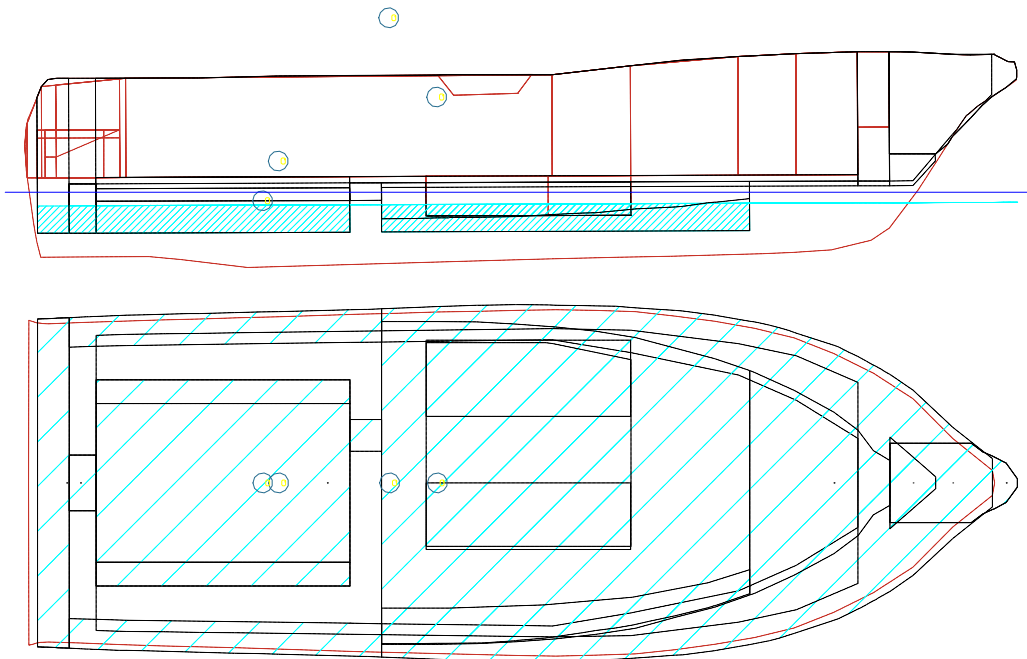


Water Density = 1.025 t/m3

Please note!

-Floating data are based on hydrostatic for upright vessel (zero heel). List is found by use of GM.

Loading Condition no. : 29  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.4 t vann u/innerliner



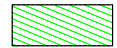
○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

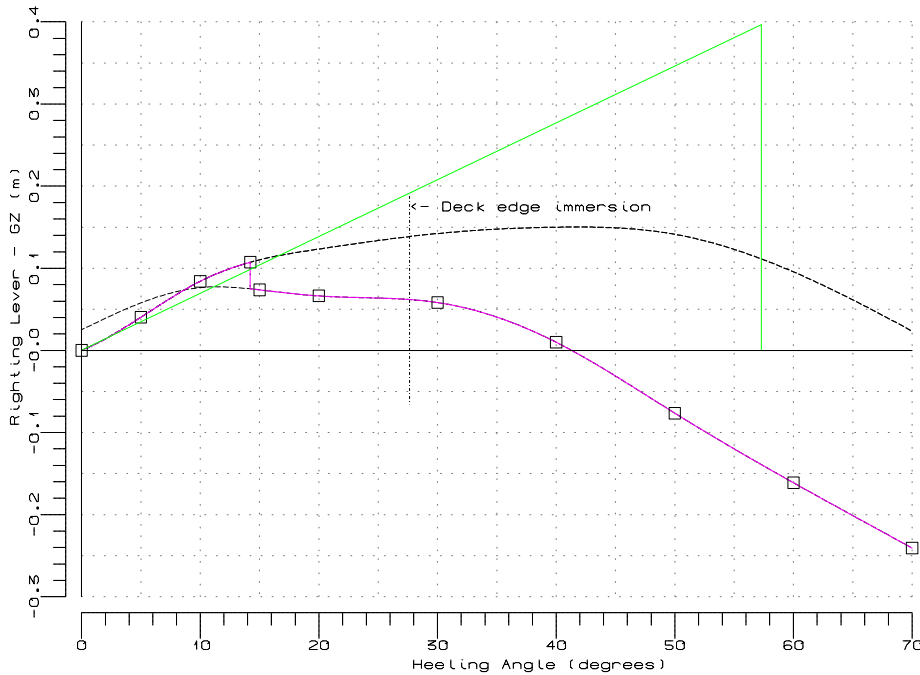
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.400	15.3	1.0250	-0.02	6.16	2.259	0.000	0.201	0.80
DEAD WEIGHT		0.986					2.163	0.000	0.852	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.413					2.213	0.000	0.743	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 29  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.4 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
5.000	0.040	0.0016
10.000	0.084	0.0071
14.219	0.107	0.0143
15.000	0.074	0.0153
20.000	0.066	0.0214
30.000	0.058	0.0324
40.000	0.010	0.0391
50.000	-0.076	0.0335
60.000	-0.161	0.0127
70.000	-0.241	-0.0224

Deck immersion : 27.656 °  
 Maximum GZ at : 14.219 °  
 Equilibrium at : 0.000 °  
 Area, 0 - 30 : 0.0324 m\*rad  
 Area, 0 - 40 : 0.0391 m\*rad  
 Area, 30 - 40 : 0.0067 m\*rad  
 Area, 0 - maxGZ: 0.0143 m\*rad  
 GM : 0.397 m

Heel to starboard side  
 Applied VCG : 0.743 m  
 TCG : 0.000 m

Please note !  
 -----  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)



## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	0.000	0.000
5.000	0.040	0.064
10.000	0.084	0.126
15.000	0.074	0.134
20.000	0.066	0.144
30.000	0.058	0.158
40.000	0.010	0.126
50.000	-0.076	0.052
60.000	-0.161	-0.029
70.000	-0.241	-0.114

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.023	0.001
10.000	0.042	0.004
15.000	0.061	0.008
20.000	0.078	0.013
30.000	0.101	0.024
40.000	0.119	0.039
50.000	0.133	0.056
60.000	0.143	0.070
70.000	0.151	0.080

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.400	1.025	2.473	0.003	0.202
5.000	0.400	1.025	2.430	0.144	0.208
10.000	0.400	1.025	2.403	0.257	0.223
15.000	0.400	1.025	2.290	0.367	0.247
20.000	0.400	1.025	2.158	0.472	0.280
30.000	0.400	1.025	1.974	0.612	0.348
40.000	0.400	1.025	1.684	0.719	0.437
50.000	0.400	1.025	1.488	0.803	0.540
60.000	0.400	1.025	1.515	0.864	0.621
70.000	0.400	1.025	1.641	0.910	0.682
Equilibrium:					
0.000	1.690	1.025	2.518	0.414	0.499

Vertical dist. betw. sea and comp. level at equilibrium : 0.605m

29. Limited load – 6 fishermen uniformly distributed – 0,4 t water below innerliner

## Flood Opening Results

Loading Condition no. : 29 ,Begr. fiskere jevnt ford.- 0.4 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	14.22	0.22
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.16
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.62	0.01
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	**	0.07
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	14.22	0.07
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	38.98	0.74
7	Rekke akter	Ref. point		0.1	0.9	1.08	32.58	0.68
8	Rekke forut	Ref. point		4.8	0.8	1.26	58.59	0.87
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	12.19	0.10

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 29 ,Begr. fiskere jevnt ford.- 0.4 t vann u/innerl

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.460	0.460
2	-0.075	1.024	0.874	0.465	0.465
3	-0.050	1.017	0.933	0.524	0.524
4	-0.025	1.009	0.993	0.584	0.584
5	0.000	1.006	1.055	0.646	0.646
6	0.008	1.005	1.075	0.666	0.666
7	0.048	1.003	1.118	0.709	0.709
8	0.250	1.010	1.126	0.718	0.718
9	0.500	1.019	1.126	0.719	0.719
10	0.750	1.027	1.126	0.720	0.720
11	1.000	1.034	1.126	0.721	0.721
12	1.250	1.040	1.131	0.727	0.727
13	1.500	1.047	1.135	0.732	0.732
14	1.750	1.055	1.136	0.734	0.734
15	2.000	1.063	1.137	0.736	0.736
16	2.250	1.070	1.138	0.738	0.738
17	2.500	1.077	1.139	0.740	0.740
18	2.750	1.082	1.138	0.740	0.740
19	3.000	1.087	1.138	0.740	0.740
20	3.250	1.092	1.140	0.743	0.743
21	3.500	1.086	1.167	0.771	0.771
22	3.750	1.079	1.194	0.799	0.799
23	4.000	1.051	1.222	0.828	0.828
24	4.250	1.018	1.239	0.846	0.846
25	4.500	0.974	1.252	0.860	0.860
26	4.750	0.915	1.263	0.872	0.872
27	5.000	0.816	1.271	0.881	0.881
28	5.250	0.692	1.274	0.885	0.885
29	5.500	0.530	1.273	0.884	0.884
30	5.750	0.280	1.256	0.869	0.869
31	6.000	0.079	1.256	0.869	0.869
32	6.013	0.000	1.256	0.870	0.870

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 30

## Begr. fiskere jevnt ford.- 0.5 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.407 m  
 Trim over Lpp (aft +) : 0.044 m  
 List (starboard +) ... : 0.077 °  
 Draught, AP (moulded) : 0.429 m  
 Draught, LCF (moulded) : 0.410 m  
 Draught, FP (moulded) : 0.385 m

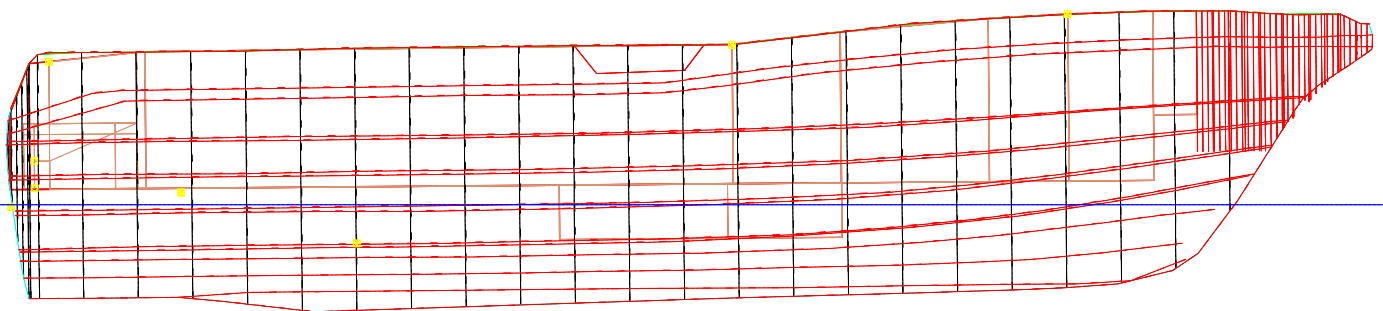
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.5 MT  
 Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin\_ \_ \_ \_ \_ : 0.1 MT  
 Total DEADWEIGHT : 1.1 MT

Displacement ..... : 2.513 MT  
 LCB (rel. AP) ..... : 2.182 m  
 VCB (rel. BL) ..... : 0.266 m  
 LCF (rel. AP) ..... : 2.340 m  
 TPC - Immersion ..... : 0.098 MT/cm  
 Trim Moment ..... : 0.035 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 1.000 m  
 Free Surface Correction: 0.276 m  
 GM (GZ derived) ..... : 0.445 m

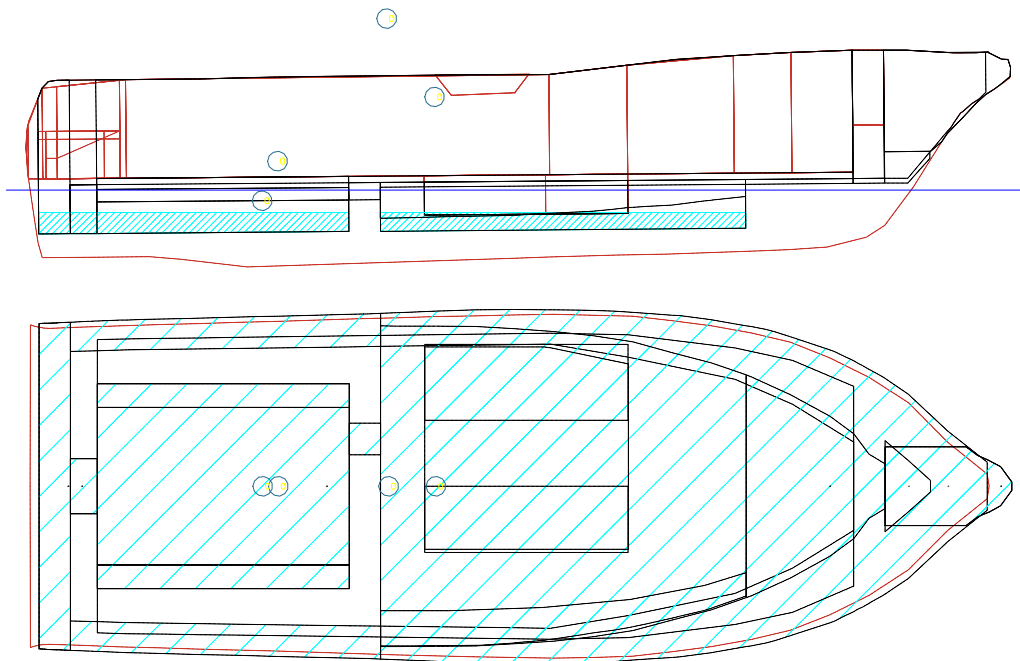


Water Density = 1.025 t/m3

## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 30  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.5 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

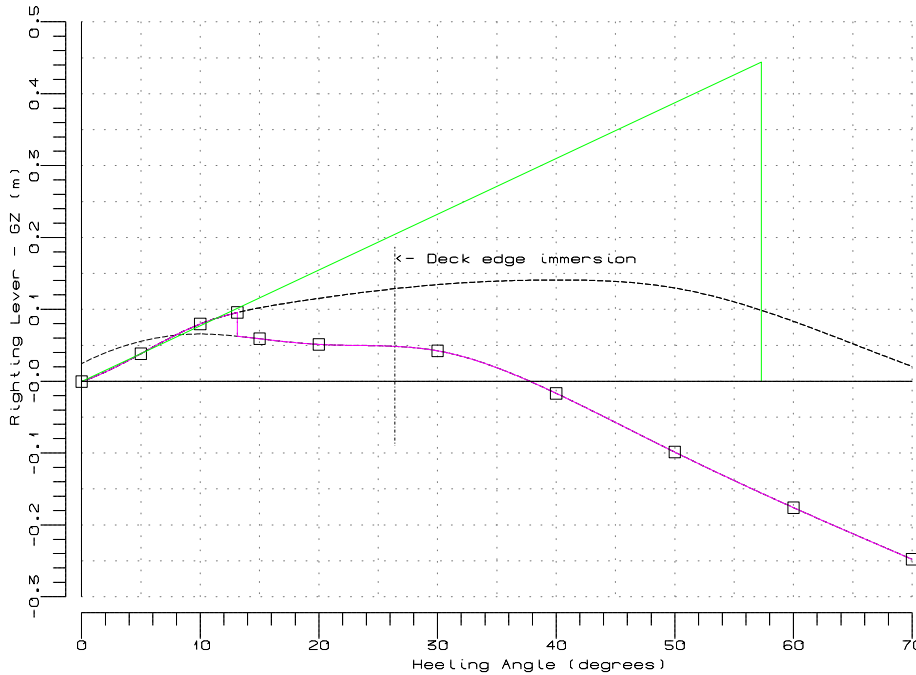
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.500	19.2	1.0250	-0.02	6.16	2.113	0.005	0.213	0.69
DEAD WEIGHT		1.086					2.105	0.002	0.798	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.513					2.186	0.001	0.724	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 30  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.5 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.001	0.0000
5.000	0.038	0.0015
10.000	0.080	0.0068
13.125	0.096	0.0116
15.000	0.059	0.0136
20.000	0.051	0.0183
30.000	0.042	0.0268
40.000	-0.017	0.0297
50.000	-0.099	0.0197
60.000	-0.176	-0.0044
70.000	-0.248	-0.0414

Deck immersion : 26.406 °  
 Maximum GZ at : 13.125 °  
 Equilibrium at : 0.077 °  
 Area, 0 - 30 : 0.0268 m\*rad  
 Area, 0 - 40 : 0.0297 m\*rad  
 Area, 30 - 40 : 0.0029 m\*rad  
 Area, 0 - maxGZ: 0.0116 m\*rad  
 GM : 0.445 m

Heel to starboard side  
 Applied VCG : 0.723 m  
 TCG : 0.001 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.001	-0.001
5.000	0.038	0.062
10.000	0.080	0.124
15.000	0.059	0.129
20.000	0.051	0.140
30.000	0.042	0.157
40.000	-0.017	0.116
50.000	-0.099	0.046
60.000	-0.176	-0.030
70.000	-0.248	-0.109

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.024	0.001
10.000	0.045	0.004
15.000	0.070	0.009
20.000	0.089	0.016
30.000	0.116	0.029
40.000	0.135	0.046
50.000	0.150	0.063
60.000	0.161	0.076
70.000	0.170	0.086

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.500	1.025	2.380	0.009	0.213
5.000	0.500	1.025	2.390	0.124	0.218
10.000	0.500	1.025	2.377	0.228	0.232
15.000	0.500	1.025	2.257	0.354	0.259
20.000	0.500	1.025	2.107	0.452	0.291
30.000	0.500	1.025	1.941	0.586	0.357
40.000	0.500	1.025	1.638	0.683	0.444
50.000	0.500	1.025	1.528	0.757	0.530
60.000	0.500	1.025	1.604	0.813	0.594
70.000	0.500	1.025	1.742	0.857	0.644
Equilibrium:					
0.077	0.500	1.025	2.113	0.005	0.213

Vertical dist. betw. sea and comp. level at equilibrium : 0.143m

30. Limited load – 6 fishermen uniformly distributed – 0,5 t water below innerliner



## Flood Opening Results

Loading Condition no. : 30 ,Begr. fiskere jevnt ford.- 0.5 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	13.12	0.20
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.18
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.01
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	48.75	0.06
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	13.12	0.06
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	37.81	0.73
7	Rekke akter	Ref. point		0.1	0.9	1.08	30.78	0.65
8	Rekke forut	Ref. point		4.8	0.8	1.26	57.81	0.87
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	10.00	0.08

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 30 ,Begr. fiskere jevnt ford.- 0.5 t vann u/innerl

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.439	0.439
2	-0.075	1.024	0.874	0.443	0.445
3	-0.050	1.017	0.933	0.502	0.505
4	-0.025	1.009	0.993	0.562	0.565
5	0.000	1.006	1.055	0.625	0.627
6	0.008	1.005	1.075	0.645	0.647
7	0.048	1.003	1.118	0.688	0.691
8	0.250	1.010	1.126	0.698	0.700
9	0.500	1.019	1.126	0.700	0.702
10	0.750	1.027	1.126	0.702	0.704
11	1.000	1.034	1.126	0.704	0.707
12	1.250	1.040	1.131	0.710	0.713
13	1.500	1.047	1.135	0.717	0.719
14	1.750	1.055	1.136	0.720	0.723
15	2.000	1.063	1.137	0.723	0.726
16	2.250	1.070	1.138	0.726	0.729
17	2.500	1.077	1.139	0.729	0.731
18	2.750	1.082	1.138	0.730	0.733
19	3.000	1.087	1.138	0.731	0.734
20	3.250	1.092	1.140	0.735	0.738
21	3.500	1.086	1.167	0.764	0.767
22	3.750	1.079	1.194	0.794	0.797
23	4.000	1.051	1.222	0.824	0.826
24	4.250	1.018	1.239	0.842	0.845
25	4.500	0.974	1.252	0.858	0.860
26	4.750	0.915	1.263	0.871	0.874
27	5.000	0.816	1.271	0.881	0.883
28	5.250	0.692	1.274	0.887	0.889
29	5.500	0.530	1.273	0.887	0.889
30	5.750	0.280	1.256	0.873	0.874
31	6.000	0.079	1.256	0.875	0.875
32	6.013	0.000	1.256	0.875	0.875

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 31

Begr. fiskere jevnt ford.- 0.6 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) :	0.416 m
Trim over Lpp (aft +) :	0.057 m
List (starboard +) ... :	0.193 °
Draught, AP (moulded) :	0.445 m
Draught, LCF (moulded) :	0.420 m
Draught, FP (moulded) :	0.387 m

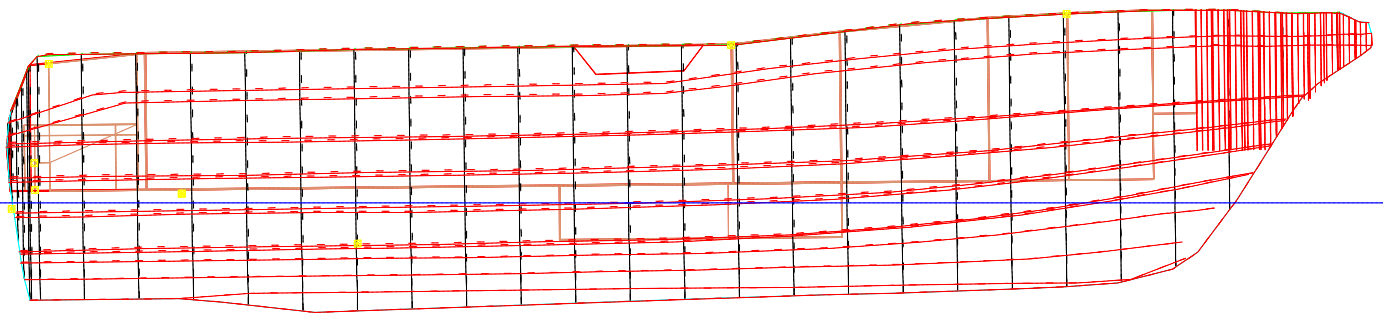
## WEIGHT SUMMARY

Miscellaneous Liquid Loads :	0.6 MT
Begr. 6 fiskere jevnt fordelt :	0.4 MT
Begr. fangst :	0.0 MT
Begr. utstyr :	0.0 MT
<u>Begr. bensin</u> _____ :	<u>0.1</u> MT
Total DEADWEIGHT :	1.2 MT

Displacement .....	2.613 MT
LCB (rel. AP) .....	2.170 m
VCB (rel. BL) .....	0.271 m
LCF (rel. AP) .....	2.343 m
TPC - Immersion .....	0.098 MT/cm
Trim Moment .....	0.035 MT*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) .....	0.998 m
Free Surface Correction:	0.292 m
GM (GZ derived) .....	0.418 m

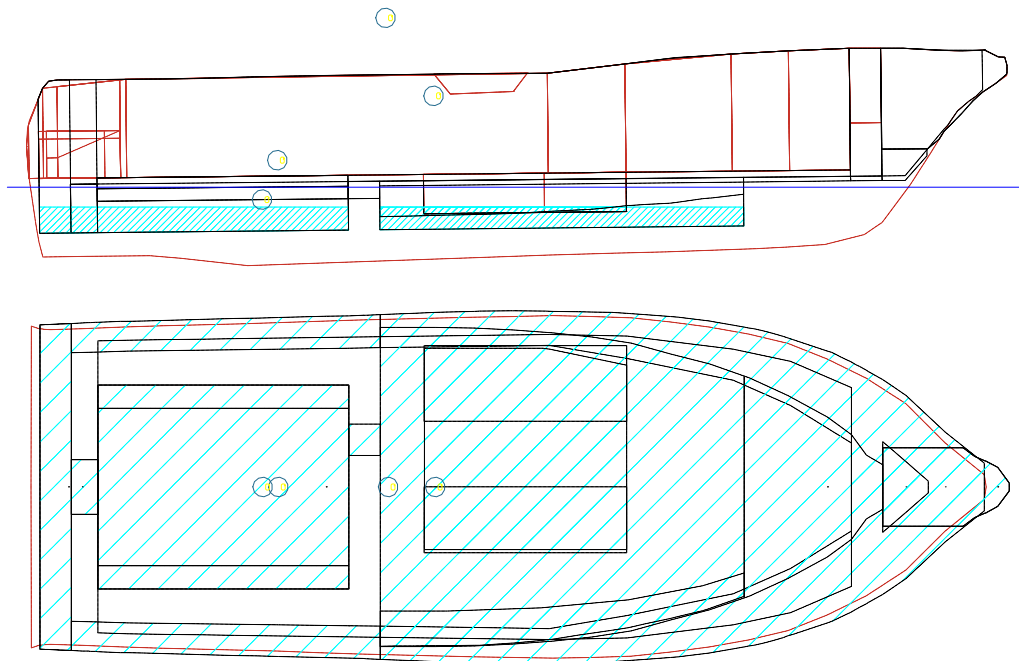


Water Density = 1.025 t/m3

Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 31  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.6 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

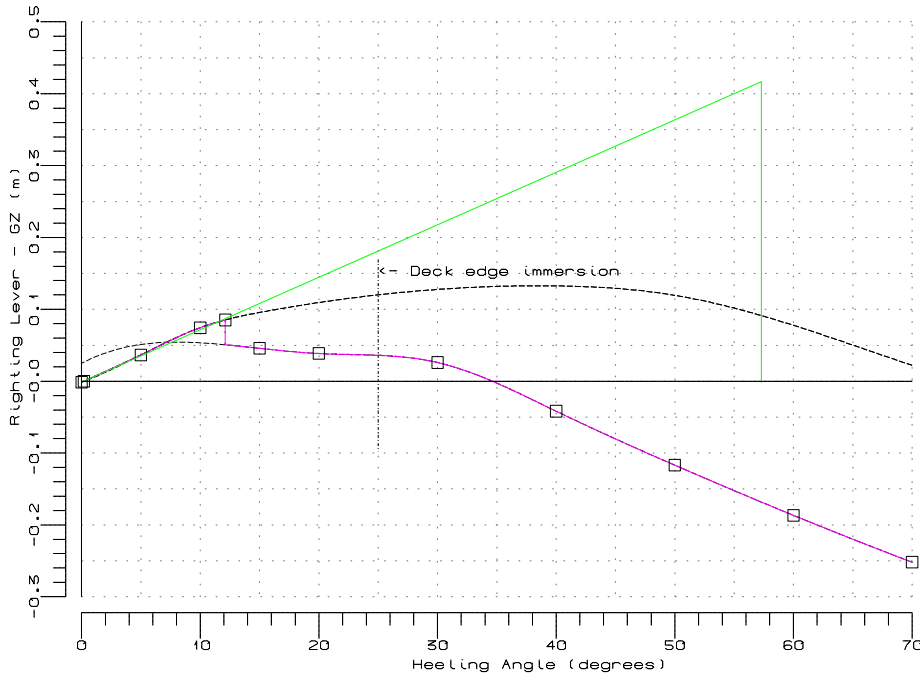
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.600	23.0	1.0250	-0.02	6.16	2.078	0.011	0.225	0.76
DEAD WEIGHT		1.186					2.087	0.005	0.755	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.613					2.175	0.002	0.707	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 31  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.6 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.001	0.0000
0.193	0.000	0.0000
5.000	0.037	0.0015
10.000	0.074	0.0064
12.109	0.085	0.0094
15.000	0.046	0.0118
20.000	0.038	0.0155
30.000	0.026	0.0215
40.000	-0.042	0.0207
50.000	-0.117	0.0068
60.000	-0.187	-0.0198
70.000	-0.252	-0.0581

Deck immersion : 25.000 °  
 Maximum GZ at : 12.109 °  
 Equilibrium at : 0.193 °  
 Area, 0 - 30 : 0.0215 m\*rad  
 Area, 0 - 40 : 0.0207 m\*rad  
 Area, 30 - 40 : -0.0008 m\*rad  
 Area, 0 - maxGZ: 0.0094 m\*rad  
 GM : 0.418 m

Heel to starboard side  
 Applied VCG : 0.707 m  
 TCG : 0.001 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.001	-0.001
5.000	0.037	0.060
10.000	0.074	0.122
15.000	0.046	0.122
20.000	0.038	0.136
30.000	0.026	0.152
40.000	-0.042	0.104
50.000	-0.117	0.039
60.000	-0.187	-0.031
70.000	-0.252	-0.105

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.024	0.001
10.000	0.048	0.004
15.000	0.077	0.011
20.000	0.098	0.017
30.000	0.127	0.033
40.000	0.147	0.052
50.000	0.162	0.067
60.000	0.174	0.079
70.000	0.184	0.089

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.600	1.025	2.326	0.009	0.225
5.000	0.600	1.025	2.351	0.112	0.229
10.000	0.600	1.025	2.353	0.215	0.243
15.000	0.600	1.025	2.235	0.339	0.270
20.000	0.600	1.025	2.080	0.430	0.300
30.000	0.600	1.025	1.878	0.558	0.366
40.000	0.600	1.025	1.594	0.646	0.449
50.000	0.600	1.025	1.561	0.710	0.517
60.000	0.600	1.025	1.659	0.762	0.567
70.000	0.600	1.025	1.812	0.807	0.611
Equilibrium:					
0.193	0.600	1.025	2.078	0.011	0.225

Vertical dist. betw. sea and comp. level at equilibrium : 0.128m

31. Limited load – 6 fishermen uniformly distributed – 0,6 t water below innerliner

## Flood Opening Results

Loading Condition no. : 31 ,Begr. fiskere jevnt ford.- 0.6 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	12.11	0.18
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.19
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.03
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	37.81	0.04
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	10.00	0.04
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	36.56	0.72
7	Rekke akter	Ref. point		0.1	0.9	1.08	28.91	0.64
8	Rekke forut	Ref. point		4.8	0.8	1.26	57.11	0.87
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	8.28	0.06

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.



## Freeboard to Deck

-----  
 Loading Condition no. : 31 ,Begr. fiskere jevnt ford.- 0.6 t vann u/innerl

No.	Freeboard				
	X (m)	Y (m)	Z (m)	Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.423	0.423
2	-0.075	1.024	0.874	0.425	0.432
3	-0.050	1.017	0.933	0.484	0.491
4	-0.025	1.009	0.993	0.545	0.551
5	0.000	1.006	1.055	0.607	0.614
6	0.008	1.005	1.075	0.627	0.634
7	0.048	1.003	1.118	0.670	0.677
8	0.250	1.010	1.126	0.680	0.687
9	0.500	1.019	1.126	0.683	0.690
10	0.750	1.027	1.126	0.686	0.693
11	1.000	1.034	1.126	0.689	0.696
12	1.250	1.040	1.131	0.696	0.703
13	1.500	1.047	1.135	0.702	0.710
14	1.750	1.055	1.136	0.706	0.713
15	2.000	1.063	1.137	0.710	0.717
16	2.250	1.070	1.138	0.713	0.720
17	2.500	1.077	1.139	0.717	0.724
18	2.750	1.082	1.138	0.719	0.726
19	3.000	1.087	1.138	0.720	0.728
20	3.250	1.092	1.140	0.725	0.732
21	3.500	1.086	1.167	0.755	0.762
22	3.750	1.079	1.194	0.785	0.792
23	4.000	1.051	1.222	0.815	0.822
24	4.250	1.018	1.239	0.835	0.841
25	4.500	0.974	1.252	0.850	0.857
26	4.750	0.915	1.263	0.865	0.871
27	5.000	0.816	1.271	0.875	0.881
28	5.250	0.692	1.274	0.882	0.887
29	5.500	0.530	1.273	0.883	0.887
30	5.750	0.280	1.256	0.871	0.872
31	6.000	0.079	1.256	0.873	0.874
32	6.013	0.000	1.256	0.874	0.874

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 32

Begr. fiskere jevnt ford.- 0.7 t vann u/innerliner

FLOATING CONDITION DATA

Mean Draught (moulded) : 0.425 m  
 Trim over Lpp (aft +) : 0.068 m  
 List (starboard +) ... : 0.271 °  
 Draught, AP (moulded) : 0.460 m  
 Draught, LCF (moulded) : 0.430 m  
 Draught, FP (moulded) : 0.391 m

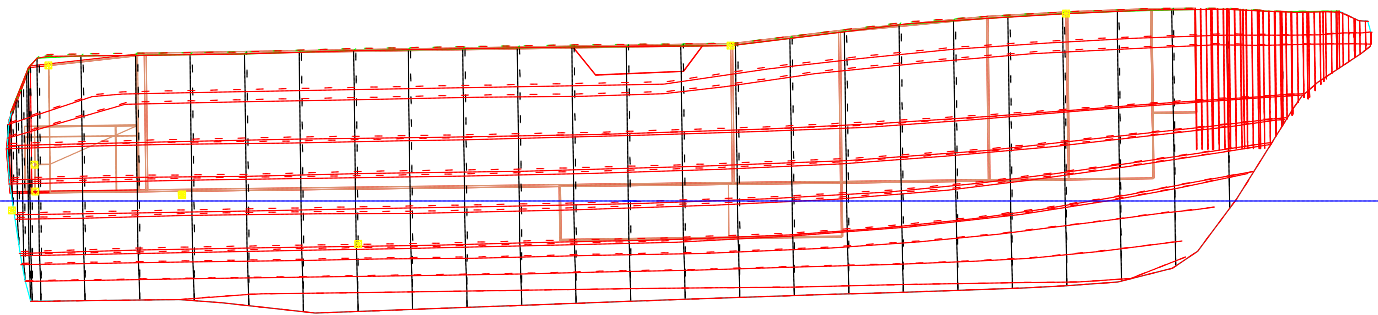
WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.7 MT  
 Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin : 0.1 MT  
 Total DEADWEIGHT : 1.3 MT

Displacement ..... : 2.713 MT  
 LCB (rel. AP) ..... : 2.162 m  
 VCB (rel. BL) ..... : 0.277 m  
 LCF (rel. AP) ..... : 2.344 m  
 TPC - Immersion ..... : 0.099 MT/cm  
 Trim Moment ..... : 0.035 MT\*m/cm

STABILITY DATA/CONTROL

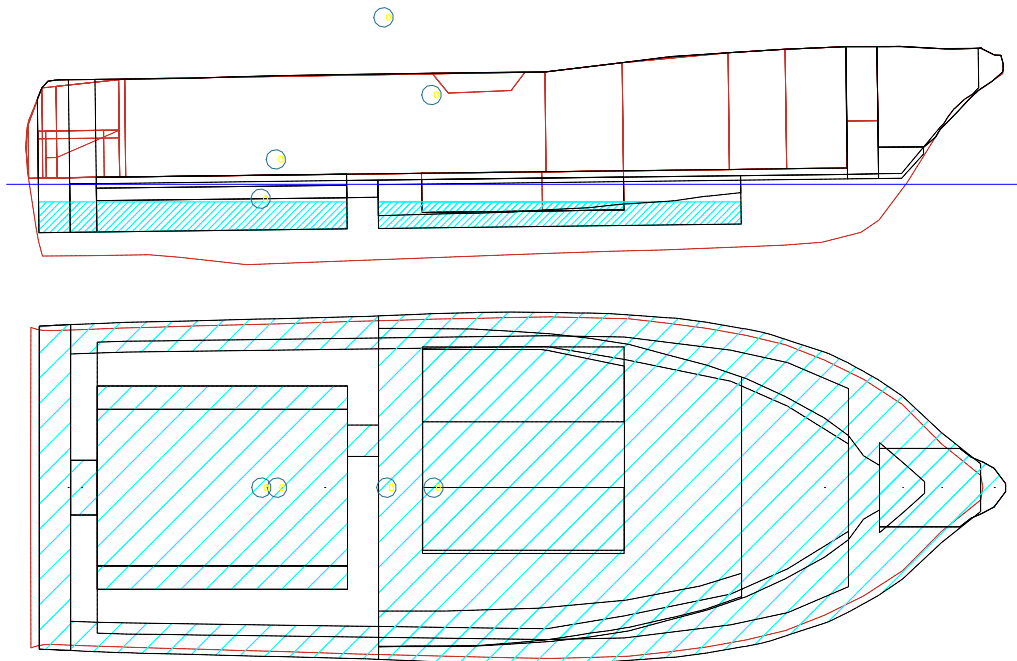
KG (incl. FSC) ..... : 0.998 m  
 Free Surface Correction: 0.306 m  
 GM (GZ derived) ..... : 0.391 m



Water Density = 1.025 t/m3

Please note!  
 -Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 32  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.7 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

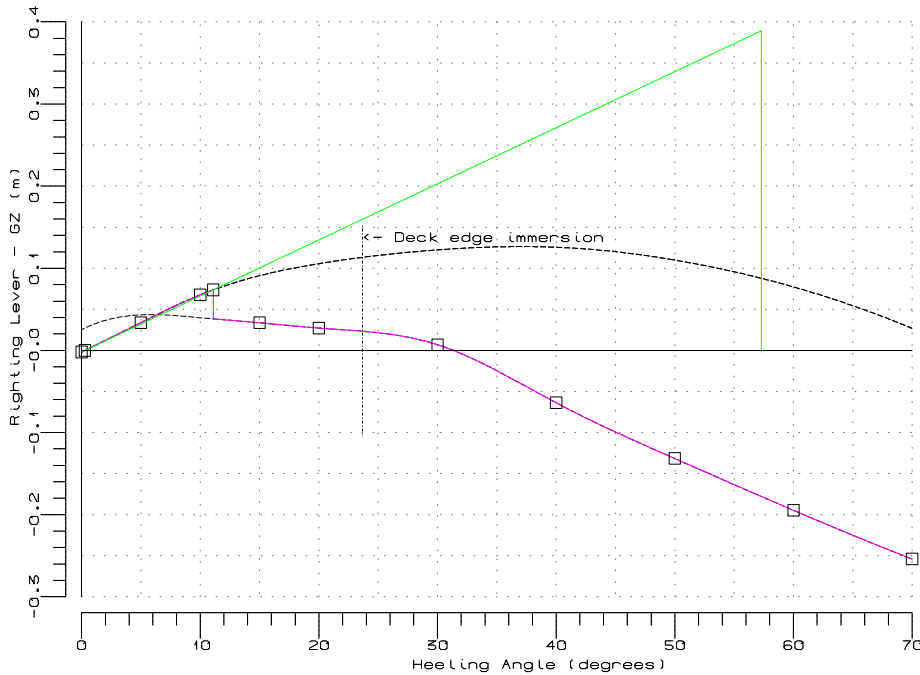
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.700	26.9	1.0250	-0.02	6.16	2.062	0.013	0.237	0.83
DEAD WEIGHT		1.286					2.078	0.007	0.720	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.713					2.167	0.003	0.692	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 32  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.7 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.002	0.0000
0.271	0.000	0.0000
5.000	0.034	0.0014
10.000	0.068	0.0059
11.094	0.074	0.0072
15.000	0.034	0.0097
20.000	0.027	0.0123
30.000	0.007	0.0158
40.000	-0.064	0.0113
50.000	-0.132	-0.0060
60.000	-0.195	-0.0345
70.000	-0.254	-0.0737

Deck immersion : 23.672 °  
 Maximum GZ at : 11.094 °  
 Equilibrium at : 0.271 °  
 Area, 0 - 30 : 0.0158 m\*rad  
 Area, 0 - 40 : 0.0113 m\*rad  
 Area, 30 - 40 : -0.0045 m\*rad  
 Area, 0 - maxGZ: 0.0072 m\*rad  
 GM : 0.391 m

Heel to starboard side  
 Applied VCG : 0.692 m  
 TCG : 0.002 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

FREE SURFACE EFFECTS ON GZ-VALUES

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Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.002	-0.002
5.000	0.034	0.059
10.000	0.068	0.119
15.000	0.034	0.115
20.000	0.027	0.130
30.000	0.007	0.142
40.000	-0.064	0.090
50.000	-0.132	0.031
60.000	-0.195	-0.034
70.000	-0.254	-0.103

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

-----

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.025	0.001
10.000	0.052	0.005
15.000	0.081	0.011
20.000	0.103	0.018
30.000	0.135	0.036
40.000	0.155	0.055
50.000	0.170	0.069
60.000	0.183	0.080
70.000	0.194	0.090

Compartment no. 2 Id. text : Indre volum

-----

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.700	1.025	2.295	0.008	0.236
5.000	0.700	1.025	2.310	0.108	0.241
10.000	0.700	1.025	2.349	0.211	0.255
15.000	0.700	1.025	2.215	0.320	0.279
20.000	0.700	1.025	2.040	0.405	0.307
30.000	0.700	1.025	1.788	0.528	0.375
40.000	0.700	1.025	1.569	0.606	0.451
50.000	0.700	1.025	1.595	0.666	0.505
60.000	0.700	1.025	1.704	0.715	0.547
70.000	0.700	1.025	1.860	0.759	0.586

Equilibrium:

0.271	0.700	1.025	2.062	0.013	0.237
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Vertical dist. betw. sea and comp. level at equilibrium : 0.113m

32. Limited load – 6 fishermen uniformly distributed – 0,7 t water below innerliner

## Flood Opening Results

Loading Condition no. : 32 ,Begr. fiskere jevnt ford.- 0.7 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	11.09	0.17
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.20
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.04
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	30.00	0.03
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	6.88	0.03
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	35.47	0.71
7	Rekke akter	Ref. point		0.1	0.9	1.08	26.76	0.62
8	Rekke forut	Ref. point		4.8	0.8	1.26	56.25	0.86
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	6.25	0.04

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 32 ,Begr. fiskere jevnt ford.- 0.7 t vann u/innerl

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.408	0.408
2	-0.075	1.024	0.874	0.408	0.418
3	-0.050	1.017	0.933	0.468	0.478
4	-0.025	1.009	0.993	0.528	0.538
5	0.000	1.006	1.055	0.591	0.600
6	0.008	1.005	1.075	0.611	0.620
7	0.048	1.003	1.118	0.654	0.664
8	0.250	1.010	1.126	0.665	0.674
9	0.500	1.019	1.126	0.668	0.677
10	0.750	1.027	1.126	0.671	0.681
11	1.000	1.034	1.126	0.674	0.684
12	1.250	1.040	1.131	0.682	0.692
13	1.500	1.047	1.135	0.689	0.699
14	1.750	1.055	1.136	0.693	0.703
15	2.000	1.063	1.137	0.697	0.707
16	2.250	1.070	1.138	0.701	0.711
17	2.500	1.077	1.139	0.705	0.715
18	2.750	1.082	1.138	0.708	0.718
19	3.000	1.087	1.138	0.710	0.720
20	3.250	1.092	1.140	0.715	0.725
21	3.500	1.086	1.167	0.745	0.756
22	3.750	1.079	1.194	0.776	0.786
23	4.000	1.051	1.222	0.807	0.817
24	4.250	1.018	1.239	0.827	0.836
25	4.500	0.974	1.252	0.843	0.852
26	4.750	0.915	1.263	0.858	0.867
27	5.000	0.816	1.271	0.869	0.877
28	5.250	0.692	1.274	0.877	0.883
29	5.500	0.530	1.273	0.879	0.884
30	5.750	0.280	1.256	0.867	0.869
31	6.000	0.079	1.256	0.870	0.871
32	6.013	0.000	1.256	0.871	0.871

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----



Loading Condition no. : 33

## Begr. fiskere jevnt ford.- 0.8 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.435 m  
 Trim over Lpp (aft +) : 0.081 m  
 List (starboard +) ... : 0.335 °  
 Draught, AP (moulded) : 0.475 m  
 Draught, LCF (moulded) : 0.441 m  
 Draught, FP (moulded) : 0.394 m

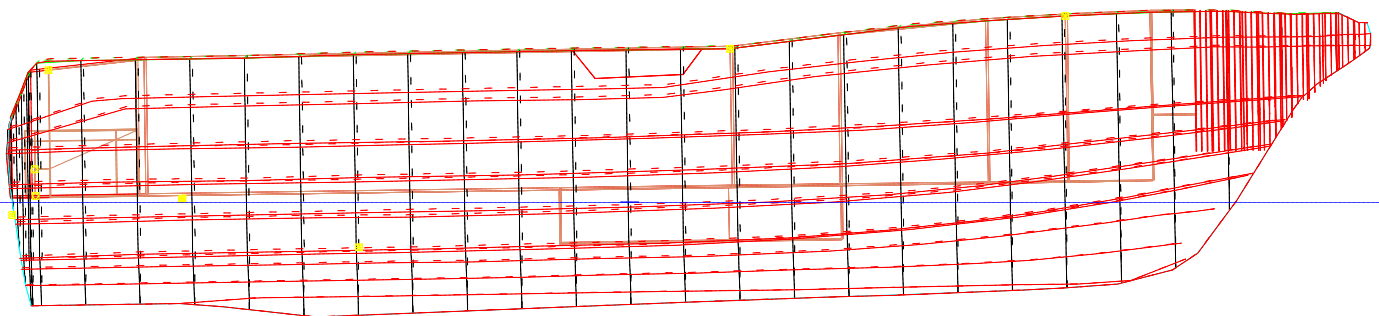
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.8 MT  
 Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin\_ \_ \_ \_ \_ : 0.1 MT  
 Total DEADWEIGHT : 1.4 MT

Displacement ..... : 2.813 MT  
 LCB (rel. AP) ..... : 2.153 m  
 VCB (rel. BL) ..... : 0.283 m  
 LCF (rel. AP) ..... : 2.345 m  
 TPC - Immersion ..... : 0.099 MT/cm  
 Trim Moment ..... : 0.035 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.998 m  
 Free Surface Correction: 0.319 m  
 GM (GZ derived) ..... : 0.366 m

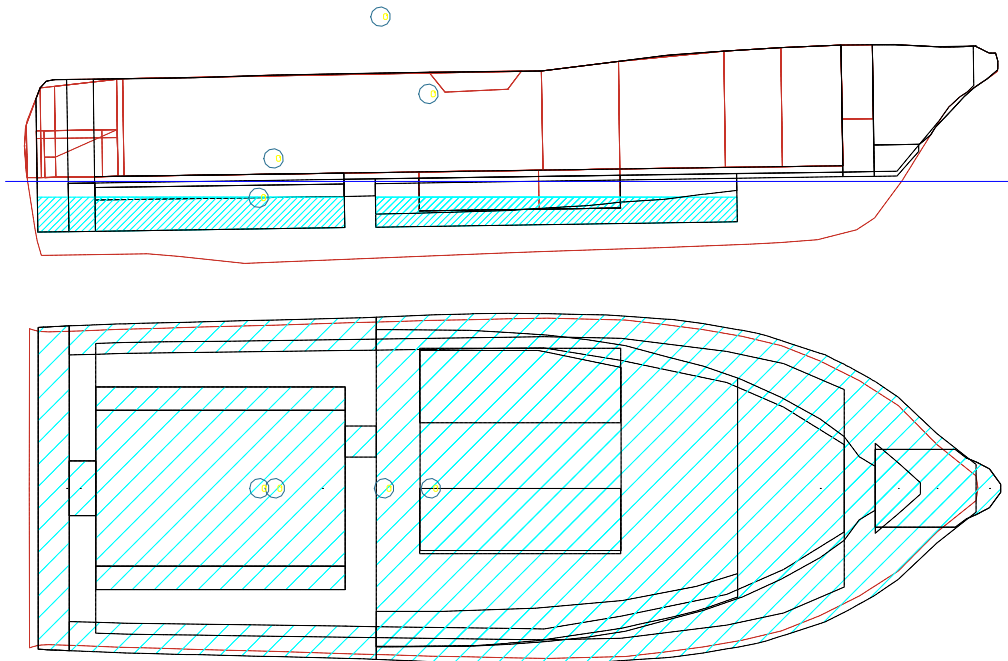


Water Density = 1.025 t/m3

## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 33  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.8 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

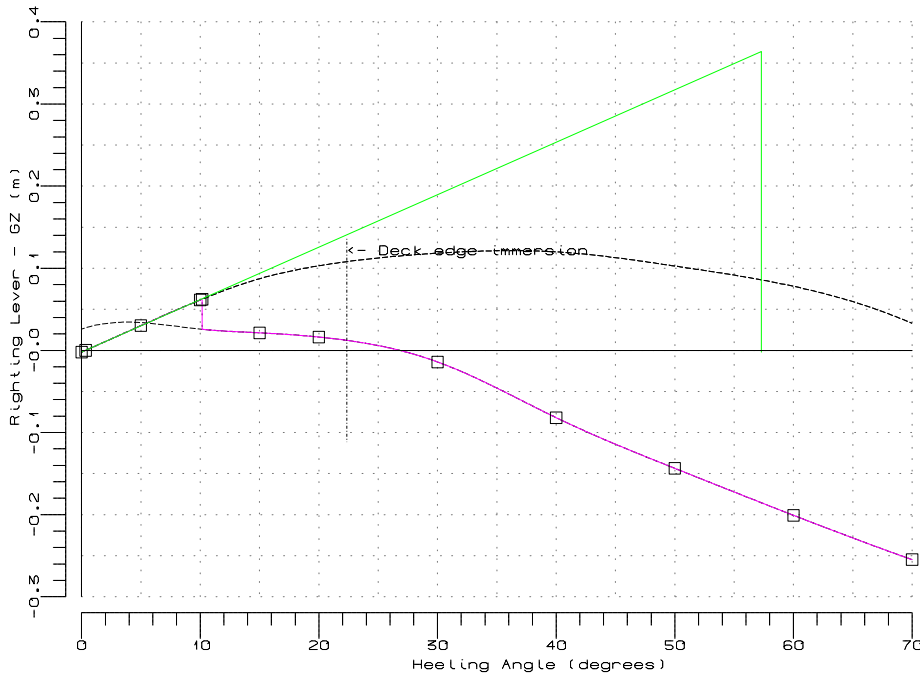
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.800	30.7	1.0250	-0.02	6.16	2.044	0.015	0.249	0.90
DEAD WEIGHT		1.386					2.067	0.008	0.692	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.813					2.159	0.004	0.679	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 33  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.8 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.002	0.0000
0.335	0.000	0.0000
5.000	0.030	0.0012
10.000	0.061	0.0052
10.156	0.062	0.0054
15.000	0.021	0.0074
20.000	0.016	0.0090
30.000	-0.014	0.0098
40.000	-0.082	0.0017
50.000	-0.144	-0.0182
60.000	-0.201	-0.0483
70.000	-0.255	-0.0881

Deck immersion : 22.344 °  
 Maximum GZ at : 10.156 °  
 Equilibrium at : 0.335 °  
 Area, 0 - 30 : 0.0098 m\*rad  
 Area, 0 - 40 : 0.0017 m\*rad  
 Area, 30 - 40 : -0.0081 m\*rad  
 Area, 0 - maxGZ: 0.0054 m\*rad  
 GM : 0.366 m

Heel to starboard side  
 Applied VCG : 0.679 m  
 TCG : 0.002 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.002	-0.002
5.000	0.030	0.057
10.000	0.061	0.117
15.000	0.021	0.105
20.000	0.016	0.123
30.000	-0.014	0.125
40.000	-0.082	0.077
50.000	-0.144	0.023
60.000	-0.201	-0.036
70.000	-0.255	-0.102

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.027	0.001
10.000	0.055	0.005
15.000	0.084	0.011
20.000	0.106	0.019
30.000	0.139	0.039
40.000	0.160	0.057
50.000	0.176	0.070
60.000	0.190	0.080
70.000	0.201	0.090

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.800	1.025	2.276	0.007	0.248
5.000	0.800	1.025	2.278	0.105	0.253
10.000	0.800	1.025	2.323	0.208	0.267
15.000	0.800	1.025	2.180	0.301	0.287
20.000	0.800	1.025	1.991	0.381	0.315
30.000	0.800	1.025	1.701	0.494	0.384
40.000	0.800	1.025	1.579	0.569	0.450
50.000	0.800	1.025	1.632	0.625	0.495
60.000	0.800	1.025	1.753	0.673	0.531
70.000	0.800	1.025	1.896	0.714	0.564
Equilibrium:					
0.335	0.800	1.025	2.044	0.015	0.249

Vertical dist. betw. sea and comp. level at equilibrium : 0.100m

33. Limited load – 6 fishermen uniformly distributed – 0,8 t water below innerliner

## Flood Opening Results

Loading Condition no. : 33 ,Begr. fiskere jevnt ford.- 0.8 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	10.16	0.15
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.21
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.06
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	19.37	0.02
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	3.44	0.01
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	34.37	0.70
7	Rekke akter	Ref. point		0.1	0.9	1.08	24.65	0.61
8	Rekke forut	Ref. point		4.8	0.8	1.26	55.16	0.85
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	4.06	0.03

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 33 ,Begr. fiskere jevnt ford.- 0.8 t vann u/innerl

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.393	0.393
2	-0.075	1.024	0.874	0.392	0.404
3	-0.050	1.017	0.933	0.452	0.463
4	-0.025	1.009	0.993	0.512	0.524
5	0.000	1.006	1.055	0.574	0.586
6	0.008	1.005	1.075	0.594	0.606
7	0.048	1.003	1.118	0.638	0.650
8	0.250	1.010	1.126	0.649	0.661
9	0.500	1.019	1.126	0.652	0.664
10	0.750	1.027	1.126	0.656	0.668
11	1.000	1.034	1.126	0.660	0.672
12	1.250	1.040	1.131	0.668	0.680
13	1.500	1.047	1.135	0.676	0.688
14	1.750	1.055	1.136	0.681	0.693
15	2.000	1.063	1.137	0.685	0.698
16	2.250	1.070	1.138	0.690	0.702
17	2.500	1.077	1.139	0.694	0.707
18	2.750	1.082	1.138	0.697	0.710
19	3.000	1.087	1.138	0.700	0.713
20	3.250	1.092	1.140	0.706	0.719
21	3.500	1.086	1.167	0.737	0.749
22	3.750	1.079	1.194	0.768	0.780
23	4.000	1.051	1.222	0.799	0.812
24	4.250	1.018	1.239	0.820	0.832
25	4.500	0.974	1.252	0.837	0.848
26	4.750	0.915	1.263	0.853	0.863
27	5.000	0.816	1.271	0.864	0.874
28	5.250	0.692	1.274	0.872	0.880
29	5.500	0.530	1.273	0.875	0.881
30	5.750	0.280	1.256	0.864	0.867
31	6.000	0.079	1.256	0.868	0.869
32	6.013	0.000	1.256	0.869	0.869

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 34

## Begr. fiskere jevnt ford.- 0.9 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.444 m  
 Trim over Lpp (aft +) : 0.095 m  
 List (starboard +) ... : 0.380 °  
 Draught, AP (moulded) : 0.491 m  
 Draught, LCF (moulded) : 0.451 m  
 Draught, FP (moulded) : 0.396 m

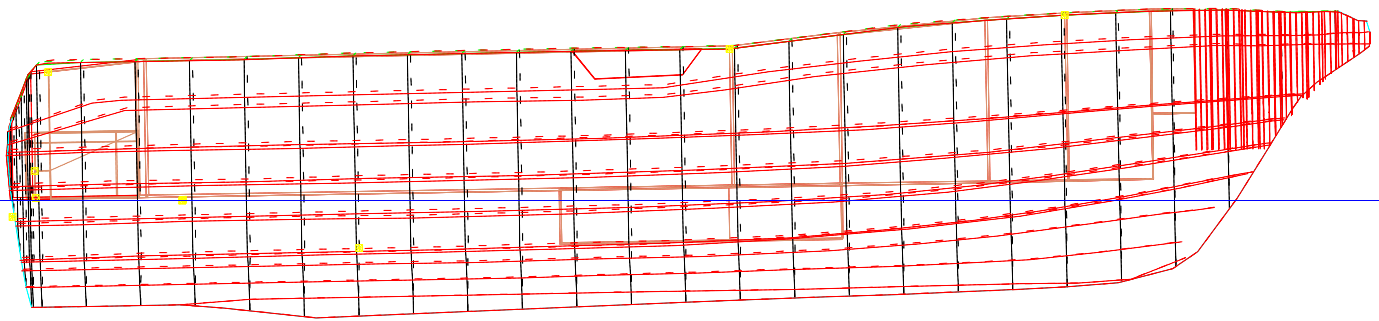
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 0.9 MT  
 Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin\_ \_ \_ \_ \_ : 0.1 MT  
 Total DEADWEIGHT : 1.5 MT

Displacement ..... : 2.913 MT  
 LCB (rel. AP) ..... : 2.141 m  
 VCB (rel. BL) ..... : 0.289 m  
 LCF (rel. AP) ..... : 2.344 m  
 TPC - Immersion ..... : 0.099 MT/cm  
 Trim Moment ..... : 0.034 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.993 m  
 Free Surface Correction: 0.326 m  
 GM (GZ derived) ..... : 0.347 m



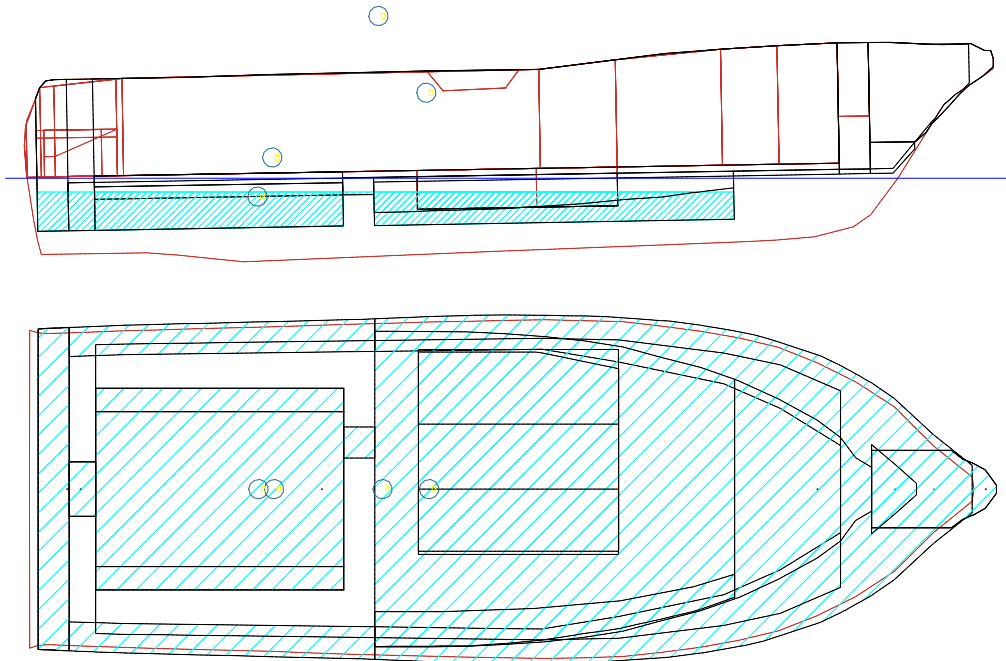
Water Density = 1.025 t/m3

## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.



Loading Condition no. : 34  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.9 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

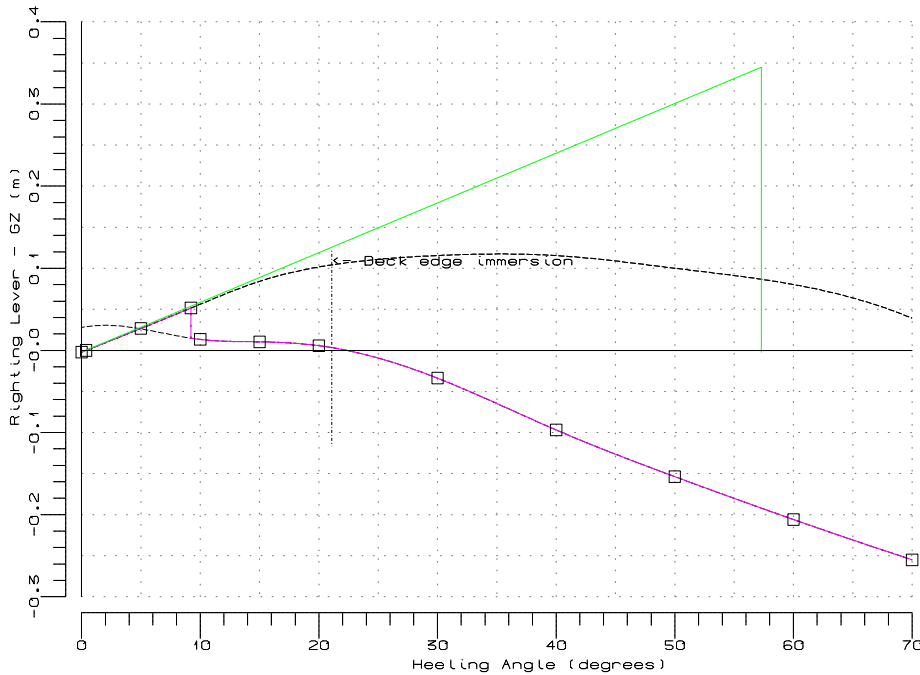
Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	0.900	34.5	1.0250	-0.02	6.16	2.021	0.014	0.261	0.95
DEAD WEIGHT		1.486					2.051	0.009	0.670	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		2.913					2.147	0.004	0.668	

.... to be continued on next page

- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 34  
 Condition Id. text : Begr. fiskere jevnt ford.- 0.9 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.002	0.0000
0.380	0.000	0.0000
5.000	0.027	0.0011
9.219	0.052	0.0040
10.000	0.013	0.0041
15.000	0.010	0.0051
20.000	0.006	0.0059
30.000	-0.034	0.0040
40.000	-0.097	-0.0073
50.000	-0.154	-0.0293
60.000	-0.206	-0.0608
70.000	-0.255	-0.1010

Deck immersion : 21.094 °  
 Maximum GZ at : 9.219 °  
 Equilibrium at : 0.380 °  
 Area, 0 - 30 : 0.0040 m\*rad  
 Area, 0 - 40 : -0.0073 m\*rad  
 Area, 30 - 40 : -0.0113 m\*rad  
 Area, 0 - maxGZ: 0.0040 m\*rad  
 GM : 0.347 m

Heel to starboard side  
 Applied VCG : 0.668 m  
 TCG : 0.002 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.002	-0.002
5.000	0.027	0.056
10.000	0.013	0.074
15.000	0.010	0.096
20.000	0.006	0.114
30.000	-0.034	0.108
40.000	-0.097	0.066
50.000	-0.154	0.015
60.000	-0.206	-0.040
70.000	-0.255	-0.101

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.001
5.000	0.029	0.002
10.000	0.061	0.005
15.000	0.086	0.011
20.000	0.108	0.020
30.000	0.141	0.041
40.000	0.163	0.058
50.000	0.180	0.070
60.000	0.193	0.080
70.000	0.205	0.089

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	0.900	1.025	2.455	0.005	0.264
5.000	0.900	1.025	2.656	0.107	0.275
10.000	0.900	1.025	2.283	0.202	0.277
15.000	0.900	1.025	2.129	0.283	0.296
20.000	0.900	1.025	1.946	0.357	0.323
30.000	0.900	1.025	1.659	0.462	0.391
40.000	0.900	1.025	1.607	0.534	0.448
50.000	0.900	1.025	1.675	0.588	0.486
60.000	0.900	1.025	1.790	0.632	0.517
70.000	0.900	1.025	1.919	0.670	0.547
Equilibrium:					
0.380	0.900	1.025	2.021	0.014	0.261

Vertical dist. betw. sea and comp. level at equilibrium : 0.089m

34. Limited load – 6 fishermen uniformly distributed – 0,9 t water below innerliner

## Flood Opening Results

Loading Condition no. : 34 ,Begr. fiskere jevnt ford.- 0.9 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	9.22	0.13
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.22
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.08
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	0.00
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	0.00
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	33.12	0.70
7	Rekke akter	Ref. point		0.1	0.9	1.08	22.97	0.59
8	Rekke forut	Ref. point		4.8	0.8	1.26	54.14	0.85
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	1.56	0.01

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 34 ,Begr. fiskere jevnt ford.- 0.9 t vann u/innerl

No.	Freeboard				
	X (m)	Y (m)	Z (m)	Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.376	0.376
2	-0.075	1.024	0.874	0.374	0.388
3	-0.050	1.017	0.933	0.434	0.448
4	-0.025	1.009	0.993	0.494	0.508
5	0.000	1.006	1.055	0.557	0.570
6	0.008	1.005	1.075	0.577	0.590
7	0.048	1.003	1.118	0.621	0.634
8	0.250	1.010	1.126	0.632	0.646
9	0.500	1.019	1.126	0.636	0.650
10	0.750	1.027	1.126	0.641	0.654
11	1.000	1.034	1.126	0.645	0.659
12	1.250	1.040	1.131	0.654	0.668
13	1.500	1.047	1.135	0.663	0.677
14	1.750	1.055	1.136	0.668	0.682
15	2.000	1.063	1.137	0.673	0.687
16	2.250	1.070	1.138	0.679	0.693
17	2.500	1.077	1.139	0.684	0.698
18	2.750	1.082	1.138	0.687	0.702
19	3.000	1.087	1.138	0.691	0.705
20	3.250	1.092	1.140	0.697	0.712
21	3.500	1.086	1.167	0.729	0.743
22	3.750	1.079	1.194	0.760	0.775
23	4.000	1.051	1.222	0.793	0.807
24	4.250	1.018	1.239	0.814	0.827
25	4.500	0.974	1.252	0.832	0.845
26	4.750	0.915	1.263	0.848	0.860
27	5.000	0.816	1.271	0.860	0.871
28	5.250	0.692	1.274	0.869	0.878
29	5.500	0.530	1.273	0.873	0.880
30	5.750	0.280	1.256	0.863	0.866
31	6.000	0.079	1.256	0.867	0.869
32	6.013	0.000	1.256	0.869	0.869

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 35

## Begr. fiskere jevnt ford.- 1.0 t vann u/innerliner

FLOATING CONDITION DATA

Mean Draught (moulded) : 0.453 m  
 Trim over Lpp (aft +) : 0.113 m  
 List (starboard +) ... : 0.435 °  
 Draught, AP (moulded) : 0.509 m  
 Draught, LCF (moulded) : 0.459 m  
 Draught, FP (moulded) : 0.396 m

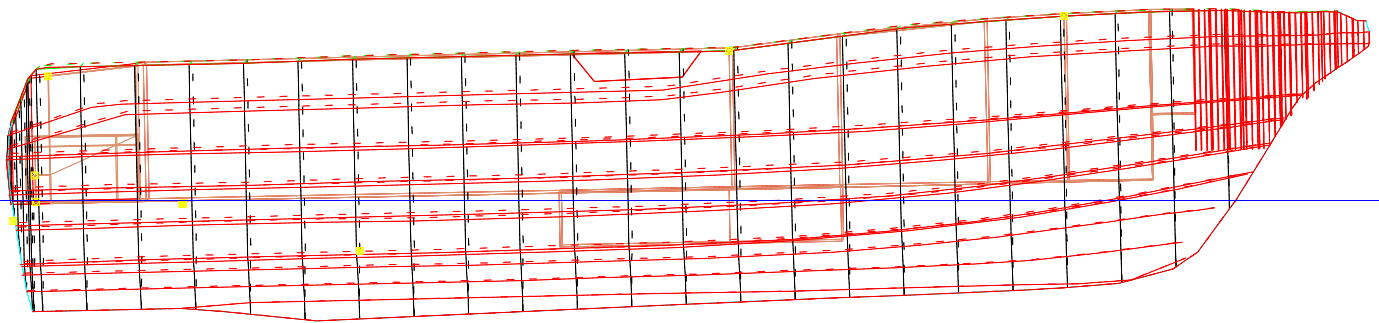
WEIGHT SUMMARY

Miscellaneous Liquid Loads : 1.0 MT  
 Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin\_ \_ \_ \_ \_ : 0.1 MT  
 Total DEADWEIGHT : 1.6 MT

Displacement ..... : 3.013 MT  
 LCB (rel. AP) ..... : 2.128 m  
 VCB (rel. BL) ..... : 0.295 m  
 LCF (rel. AP) ..... : 2.444 m  
 TPC - Immersion ..... : 0.095 MT/cm  
 Trim Moment ..... : 0.033 MT\*m/cm

STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.990 m  
 Free Surface Correction: 0.331 m  
 GM (GZ derived) ..... : 0.327 m

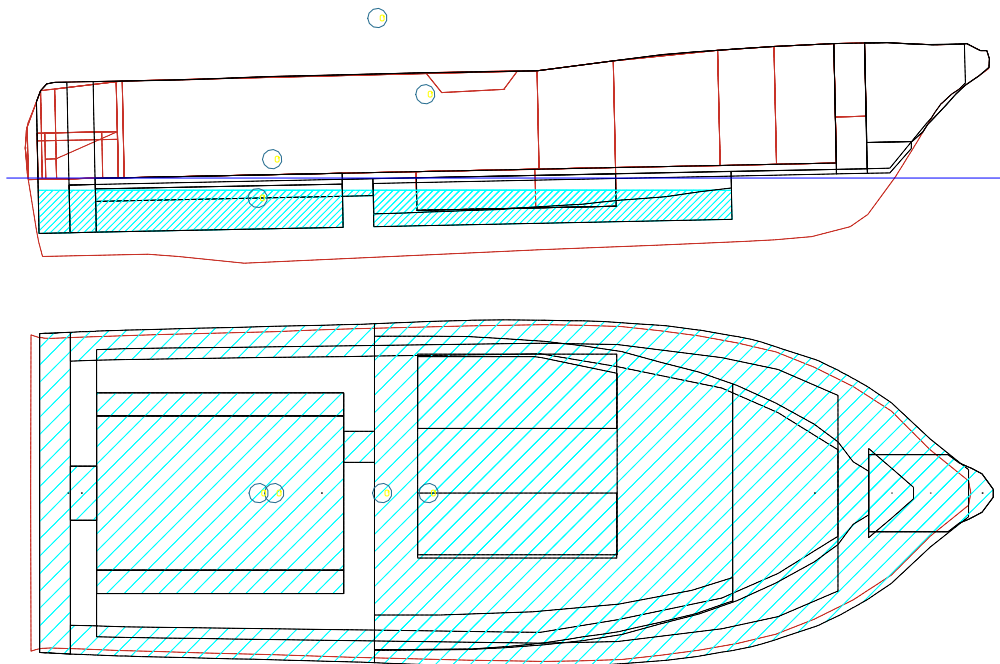


Water Density = 1.025 t/m3

Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 35  
 Condition Id. text : Begr. fiskere jevnt ford.- 1.0 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	1.000	38.4	1.0250	-0.02	6.16	1.999	0.014	0.274	1.00
DEAD WEIGHT		1.586					2.035	0.009	0.652	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		3.013					2.136	0.005	0.659	

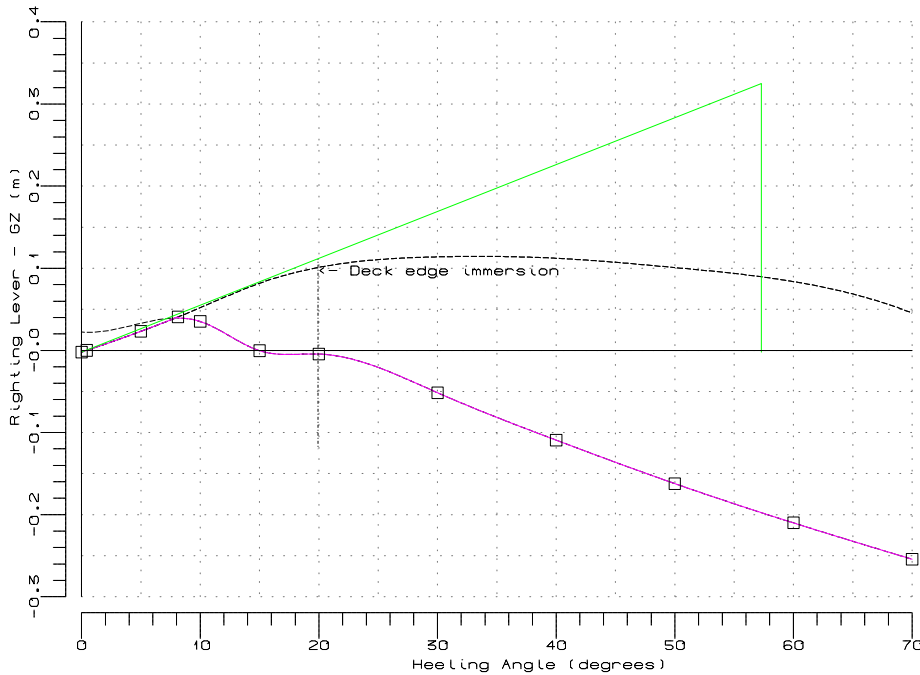
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- ⊠) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.

Loading Condition no. : 35  
 Condition Id. text : Begr. fiskere jevnt ford.- 1.0 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.002	0.0000
0.435	0.000	0.0000
5.000	0.023	0.0009
8.125	0.041	0.0026
10.000	0.035	0.0039
15.000	0.000	0.0054
20.000	-0.004	0.0050
30.000	-0.052	0.0010
40.000	-0.109	-0.0132
50.000	-0.162	-0.0369
60.000	-0.210	-0.0695
70.000	-0.254	-0.1100

Deck immersion : 19.922 °  
 Maximum GZ at : 8.125 °  
 Equilibrium at : 0.435 °  
 Area, 0 - 30 : 0.0010 m\*rad  
 Area, 0 - 40 : -0.0132 m\*rad  
 Area, 30 - 40 : -0.0142 m\*rad  
 Area, 0 - maxGZ: 0.0027 m\*rad  
 GM : 0.327 m

Heel to starboard side  
 Applied VCG : 0.658 m  
 TCG : 0.002 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

## FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.002	-0.002
5.000	0.023	0.054
10.000	0.035	0.090
15.000	0.000	0.086
20.000	-0.004	0.104
30.000	-0.052	0.092
40.000	-0.109	0.054
50.000	-0.162	0.006
60.000	-0.210	-0.045
70.000	-0.254	-0.102

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

## MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.001
5.000	0.031	0.002
10.000	0.053	0.014
15.000	0.086	0.011
20.000	0.109	0.020
30.000	0.141	0.042
40.000	0.164	0.058
50.000	0.180	0.069
60.000	0.195	0.078
70.000	0.206	0.086

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates		
			X (m)	Y (m)	Z (m)
0.000	1.000	1.025	3.106	0.015	0.314
5.000	1.000	1.025	3.094	0.086	0.316
10.000	1.000	1.025	2.965	0.166	0.315
15.000	1.000	1.025	2.052	0.265	0.305
20.000	1.000	1.025	1.900	0.332	0.332
30.000	1.000	1.025	1.645	0.432	0.398
40.000	1.000	1.025	1.640	0.501	0.446
50.000	1.000	1.025	1.710	0.549	0.478
60.000	1.000	1.025	1.820	0.592	0.506
70.000	1.000	1.025	1.936	0.627	0.532
Equilibrium:					
0.435	1.000	1.025	1.999	0.014	0.274

Vertical dist. betw. sea and comp. level at equilibrium : 0.079m

35. Limited load – 6 fishermen uniformly distributed – 1,0 t water below innerliner

## Flood Opening Results

Loading Condition no. : 35 ,Begr. fiskere jevnt ford.- 1.0 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	8.12	0.11
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.23
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.09
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	-0.01
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	-0.02
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	32.03	0.69
7	Rekke akter	Ref. point		0.1	0.9	1.08	21.76	0.57
8	Rekke forut	Ref. point		4.8	0.8	1.26	53.12	0.85
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	0.00	-0.01

Above Sea is vertical distance from opening to sea at equilibrium.

\*\*) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 35 ,Begr. fiskere jevnt ford.- 1.0 t vann u/innerl

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.358	0.358
2	-0.075	1.024	0.874	0.355	0.371
3	-0.050	1.017	0.933	0.415	0.431
4	-0.025	1.009	0.993	0.476	0.491
5	0.000	1.006	1.055	0.538	0.554
6	0.008	1.005	1.075	0.558	0.574
7	0.048	1.003	1.118	0.602	0.617
8	0.250	1.010	1.126	0.614	0.630
9	0.500	1.019	1.126	0.619	0.635
10	0.750	1.027	1.126	0.624	0.640
11	1.000	1.034	1.126	0.630	0.646
12	1.250	1.040	1.131	0.639	0.655
13	1.500	1.047	1.135	0.649	0.665
14	1.750	1.055	1.136	0.655	0.671
15	2.000	1.063	1.137	0.661	0.677
16	2.250	1.070	1.138	0.667	0.683
17	2.500	1.077	1.139	0.673	0.689
18	2.750	1.082	1.138	0.677	0.694
19	3.000	1.087	1.138	0.682	0.698
20	3.250	1.092	1.140	0.689	0.705
21	3.500	1.086	1.167	0.721	0.737
22	3.750	1.079	1.194	0.754	0.770
23	4.000	1.051	1.222	0.787	0.803
24	4.250	1.018	1.239	0.809	0.824
25	4.500	0.974	1.252	0.827	0.842
26	4.750	0.915	1.263	0.844	0.858
27	5.000	0.816	1.271	0.858	0.870
28	5.250	0.692	1.274	0.867	0.878
29	5.500	0.530	1.273	0.872	0.880
30	5.750	0.280	1.256	0.863	0.867
31	6.000	0.079	1.256	0.869	0.870
32	6.013	0.000	1.256	0.870	0.870

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Loading Condition no. : 36

## Begr. fiskere jevnt ford.- 1.5 t vann u/innerliner

## FLOATING CONDITION DATA

Mean Draught (moulded) : 0.505 m  
 Trim over Lpp (aft +) : 0.113 m  
 List (starboard +) ... : 0.858 °  
 Draught, AP (moulded) : 0.561 m  
 Draught, LCF (moulded) : 0.510 m  
 Draught, FP (moulded) : 0.448 m

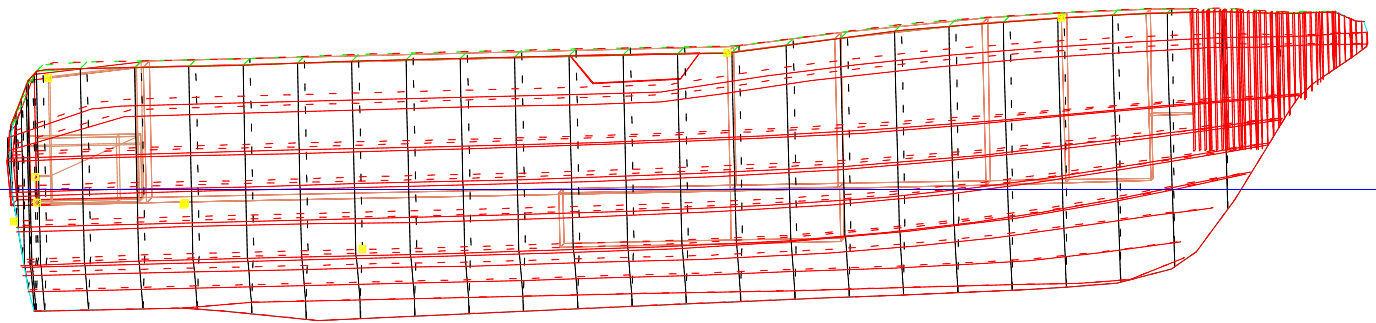
## WEIGHT SUMMARY

Miscellaneous Liquid Loads : 1.5 MT  
 Begr. 6 fiskere jevnt fordelt : 0.4 MT  
 Begr. fangst : 0.0 MT  
 Begr. utstyr : 0.0 MT  
 Begr. bensin : 0.1 MT  
 Total DEADWEIGHT : 2.1 MT

Displacement ..... : 3.513 MT  
 LCB (rel. AP) ..... : 2.177 m  
 VCB (rel. BL) ..... : 0.322 m  
 LCF (rel. AP) ..... : 2.487 m  
 TPC - Immersion ..... : 0.097 MT/cm  
 Trim Moment ..... : 0.033 MT\*m/cm

## STABILITY DATA/CONTROL

KG (incl. FSC) ..... : 0.905 m  
 Free Surface Correction: 0.278 m  
 GM (GZ derived) ..... : 0.309 m

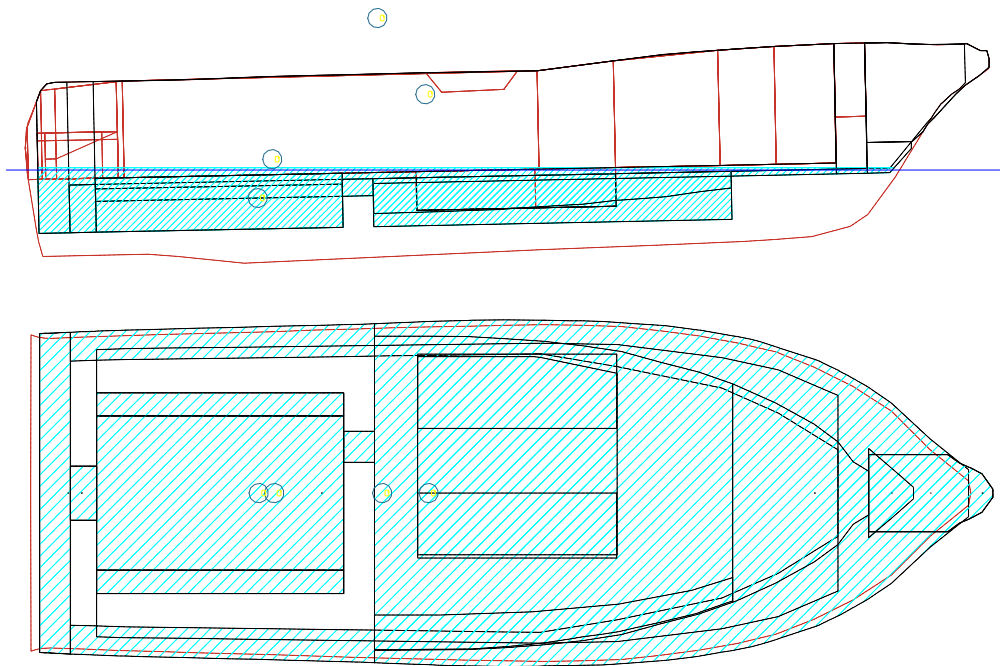


Water Density = 1.025 t/m3

## Please note!

-Floating data are based on iterations incorporating calculation of exact list (heel giving zero righting lever).  
 -GM is calculated based on metacentric height (KMT) for upright vessel (zero heel)  
 -The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the equilibrium calculation.

Loading Condition no. : 36  
 Condition Id. text : Begr. fiskere jevnt ford.- 1.5 t vann u/innerliner



○ - UNIT LOADS



Water Ballast



Cargo



Miscellaneous

WEIGHT LOADS

Part no.	Id.text	Weight (MT)	Load (%)	Density (MT/m3)	Distribution		LCG (m)	TCG (m)	VCG (m)	FSCT Moment (MT*m)
					Aft (m)	Fore (m)				
1	Begr. 6 fiskere jevnt fordelt									
-	Personer jevnt fordelt	0.450					2.200	0.000	1.500	
2	Begr. fangst									
-	Fangst på dørk	0.046					1.500	0.000	0.600	
3	Begr. utstyr									
-	Utstyr fordelt over dørk	0.040					2.500	0.000	1.000	
4	Begr. bensin									
-	Bensin i tank	0.050					1.400	0.000	0.350	
5	Indre volum	1.500	57.5	1.0250	-0.02	6.16	2.156	0.020	0.329	0.98
DEAD WEIGHT		2.086					2.140	0.014	0.601	
LIGHT WEIGHT, Inc.t. Nor		1.427					2.248	0.000	0.667	
TOTAL WEIGHT		3.513					2.184	0.008	0.628	

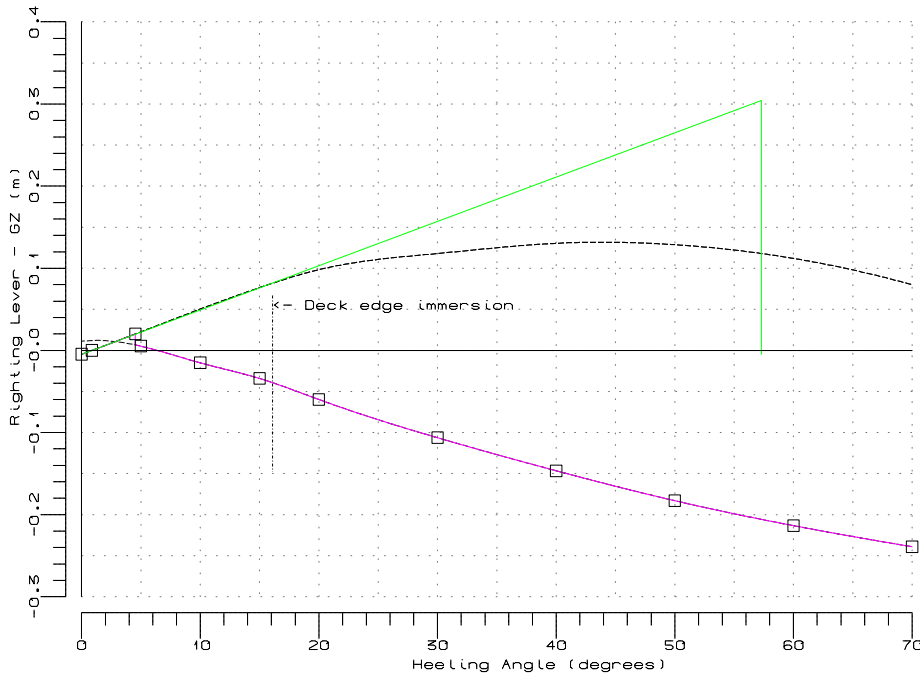
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- ) The centre of the liquid in these tanks are allowed to shift with heel. The effect from this is incorporated in the calculated GZ-values. The moment of inertia from these tanks are not used to calculate a constant Free Surface Moment applied to artificially raise the VCG applied in the calculations of GZ-values.



Loading Condition no. : 36  
 Condition Id. text : Begr. fiskere jevnt ford.- 1.5 t vann u/innerliner

INTACT STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	-0.005	0.0000
0.858	0.000	0.0000
4.531	0.020	0.0006
5.000	0.005	0.0007
10.000	-0.015	0.0003
15.000	-0.034	-0.0019
20.000	-0.060	-0.0059
30.000	-0.106	-0.0206
40.000	-0.147	-0.0427
50.000	-0.183	-0.0716
60.000	-0.213	-0.1063
70.000	-0.239	-0.1458

Deck immersion : 16.094 °  
 Maximum GZ at : 4.531 °  
 Equilibrium at : 0.858 °  
 Area, 0 - 30 : -0.0206 m\*rad  
 Area, 0 - 40 : -0.0427 m\*rad  
 Area, 30 - 40 : -0.0221 m\*rad  
 Area, 0 - maxGZ: 0.0007 m\*rad  
 GM : 0.309 m

Heel to starboard side  
 Applied VCG : 0.628 m  
 TCG : 0.004 m

Please note !

- The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).
- The centre of the liquid in some or all tanks are allowed to shift with heel. The effect from this is incorporated in the calculation of GZ-values. The moment of inertia from these tanks are not contributing to the constant "Free Surface Moment" applied to artificially raise the VCG applied in the calculation of GZ-values

FREE SURFACE EFFECTS ON GZ-VALUES

Angle of heel (degrees)	GZ-values with corr. (m)	GZ-values without corr. (m)
0.000	-0.005	-0.005
5.000	0.005	0.029
10.000	-0.015	0.039
15.000	-0.034	0.048
20.000	-0.060	0.043
30.000	-0.106	0.021
40.000	-0.147	-0.009
50.000	-0.183	-0.043
60.000	-0.213	-0.078
70.000	-0.239	-0.117

The corrected GZ-values are calculated according to the movement of the liquid centers of the compartments listed below.

MOVEMENT OF C.O.G. FOR THE SHIP TOTAL

Movement of center of gravity compared to zero heel and initial trim.

Angle of heel (degrees)	Transversal movement (m)	Vertical movement (m)
0.000	0.000	0.000
5.000	0.023	0.001
10.000	0.053	0.007
15.000	0.081	0.016
20.000	0.100	0.026
30.000	0.124	0.039
40.000	0.141	0.047
50.000	0.154	0.054
60.000	0.165	0.060
70.000	0.176	0.066

Compartment no. 2 Id. text : Indre volum

Angle of heel (degrees)	Weight in tank (tonnes)	Specific weight (t/m**3)	Gravity coordinates X (m)	Y (m)	Z (m)
0.000	1.500	1.025	2.222	0.010	0.328
5.000	1.500	1.025	2.184	0.065	0.331
10.000	1.500	1.025	2.046	0.135	0.344
15.000	1.500	1.025	1.948	0.199	0.365
20.000	1.500	1.025	1.859	0.245	0.390
30.000	1.500	1.025	1.835	0.301	0.419
40.000	1.500	1.025	1.864	0.340	0.439
50.000	1.500	1.025	1.909	0.371	0.455
60.000	1.500	1.025	1.964	0.397	0.470
70.000	1.500	1.025	2.034	0.422	0.483
Equilibrium:					
0.858	1.500	1.025	2.156	0.020	0.329

Vertical dist. betw. sea and comp. level at equilibrium : -0.013m

36. Limited load – 6 fishermen uniformly distributed – 1,5 t water below innerliner

## Flood Opening Results

Loading Condition no. : 36 ,Begr. fiskere jevnt ford.- 1.5 t vann u/innerline

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	4.53	0.06
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.28
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-0.15
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	-0.06
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	-0.07
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	23.05	0.63
7	Rekke akter	Ref. point		0.1	0.9	1.08	11.99	0.51
8	Rekke forut	Ref. point		4.8	0.8	1.26	46.33	0.79
9	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	0.00	-0.06

Above Sea is vertical distance from opening to sea at equilibrium.

\*\* ) Flooding angle is outside of specified heel range.

## Freeboard to Deck

-----  
 Loading Condition no. : 36 ,Begr. fiskere jevnt ford.- 1.5 t vann u/innerl

No.	Freeboard				
	X (m)	Y (m)	Z (m)	Starboard (m)	Port (m)
1	-0.077	0.000	0.869	0.306	0.306
2	-0.075	1.024	0.874	0.296	0.326
3	-0.050	1.017	0.933	0.356	0.386
4	-0.025	1.009	0.993	0.416	0.446
5	0.000	1.006	1.055	0.479	0.509
6	0.008	1.005	1.075	0.499	0.529
7	0.048	1.003	1.118	0.543	0.573
8	0.250	1.010	1.126	0.555	0.585
9	0.500	1.019	1.126	0.560	0.590
10	0.750	1.027	1.126	0.565	0.596
11	1.000	1.034	1.126	0.570	0.601
12	1.250	1.040	1.131	0.580	0.611
13	1.500	1.047	1.135	0.589	0.620
14	1.750	1.055	1.136	0.595	0.627
15	2.000	1.063	1.137	0.601	0.633
16	2.250	1.070	1.138	0.607	0.639
17	2.500	1.077	1.139	0.613	0.645
18	2.750	1.082	1.138	0.617	0.650
19	3.000	1.087	1.138	0.622	0.654
20	3.250	1.092	1.140	0.629	0.661
21	3.500	1.086	1.167	0.661	0.694
22	3.750	1.079	1.194	0.694	0.726
23	4.000	1.051	1.222	0.727	0.758
24	4.250	1.018	1.239	0.749	0.780
25	4.500	0.974	1.252	0.768	0.797
26	4.750	0.915	1.263	0.786	0.813
27	5.000	0.816	1.271	0.800	0.824
28	5.250	0.692	1.274	0.811	0.831
29	5.500	0.530	1.273	0.816	0.832
30	5.750	0.280	1.256	0.809	0.817
31	6.000	0.079	1.256	0.816	0.819
32	6.013	0.000	1.256	0.818	0.818

Freeboard is vertical distance from deck point to sea at equilibrium.  
 -----

Current Condition : Begr. 6 fiskere jevnt fordelt

Damage id. text : Penetrering u/innerliner

FLOATING CONDITION DATA

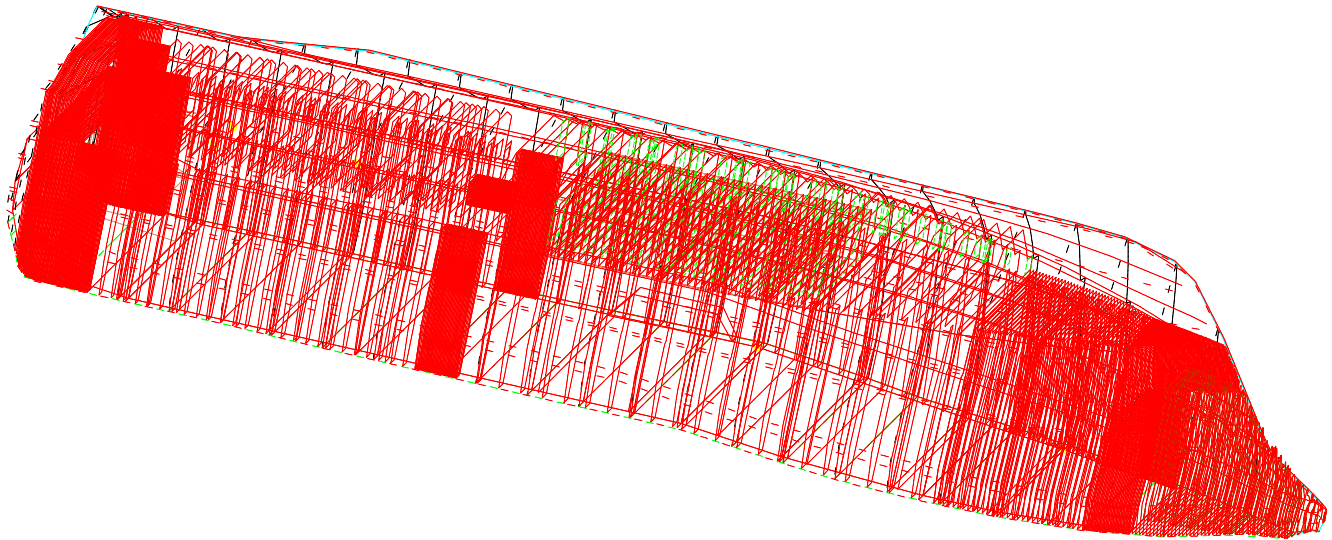
-----  
Mean Draught (moulded) : 0.296 m  
Trim over Lpp (aft +) : 1.193 m  
List (starboard +) ... : °

Displacement ..... : 10.539 MT  
LCB (from AP) ..... : 2.628 m

Amount of sea water in  
damaged tanks ..... : 8.318 m3

GM ..... : 10.037 m

Min. vertical distance  
to upper deck ..... : -2.120 m

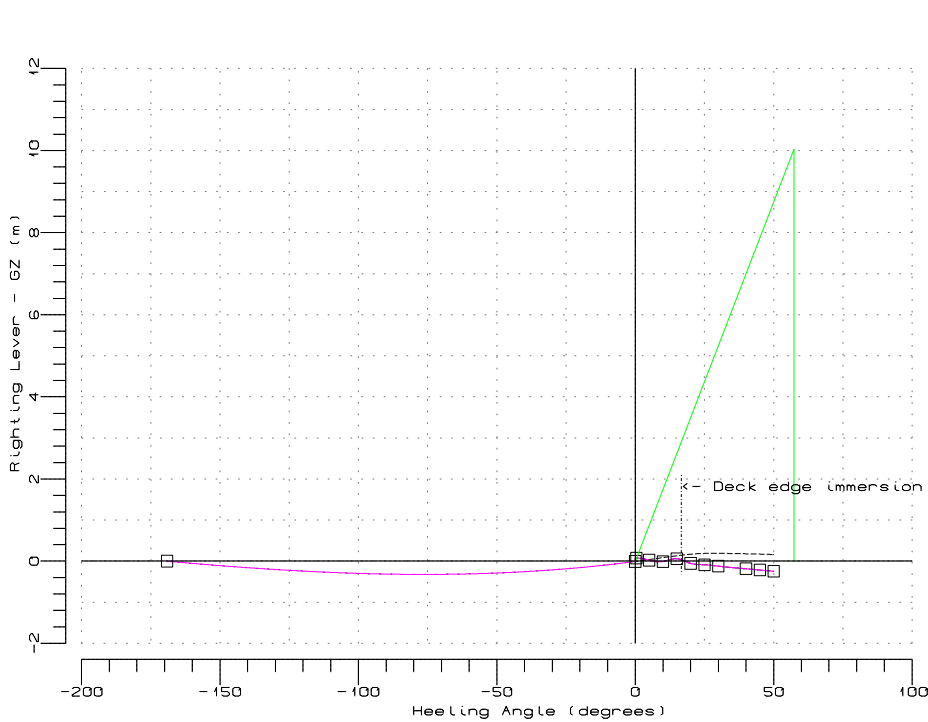


Please note !

- -GZ-levers are based on the "CONSTANT DISPLACEMENT" method.  
-Equilibrium are based on the "ADDED WEIGHT" method.  
-The calculation of GM is made by finding the tangency line of the GZ-curve at upright vessel.

Loading Condition no. : 22  
 Condition Id. text : Begr. 6 fiskere jevnt fordelt  
 Damage id. text : Penetrering u/innerliner

DAMAGE STABILITY DATA (GZ-curve, Areas, Particulars & Criteria Control)



Angle (degr.)	GZ (m)	Area (m*rad)
0.000	0.000	0.0000
0.400	-0.008	-0.6339
0.400	0.075	-0.6334
5.000	0.023	-0.6290
10.000	-0.010	-0.6293
15.000	0.058	-0.6267
20.000	-0.055	-0.6260
25.000	-0.089	-0.6329
30.000	-0.122	-0.6419
40.000	-0.187	-0.6691
45.000	-0.217	-0.6868
50.000	-0.247	-0.7070

Deck immersion : 16.641 °  
 Maximum GZ at : 0.400 °  
 Equilibrium at : °  
 Pos. GZ-Range : 187.046 °  
 Area, +GZ Range: -0.6249 m\*rad  
 Area, EqAnl, +20: -0.0204 m\*rad  
 GM : 10.037 m

Heel to starboard side  
 Applied initial VCG : 0.850 m  
 TCG : 0.000 m

Table of damage stability criteria

TYPE :

Code	Id. text		Actual value	Conclusion
Flood	Minimum distance to flood opening in equilibrium	: 0.00 m	----	OK
Equil	Maximum aE : 25.00° , no deck edge immersion	: 30.00 °	----	OK
GZpos	Range of positive GZ-curve	: 20.00 °	----	OK
GZmax	Minimum value of GZmax	: 0.10 m	0.075	NOT OK
GZAr2	Minimum GZarea (aE - min<aE+89.9,β>°)	: 0.0175 m·rad	0.005	NOT OK

β : flooding angle  
 aE : final equilibrium angle of heel  
 All distances are related to waterline of equilibrium

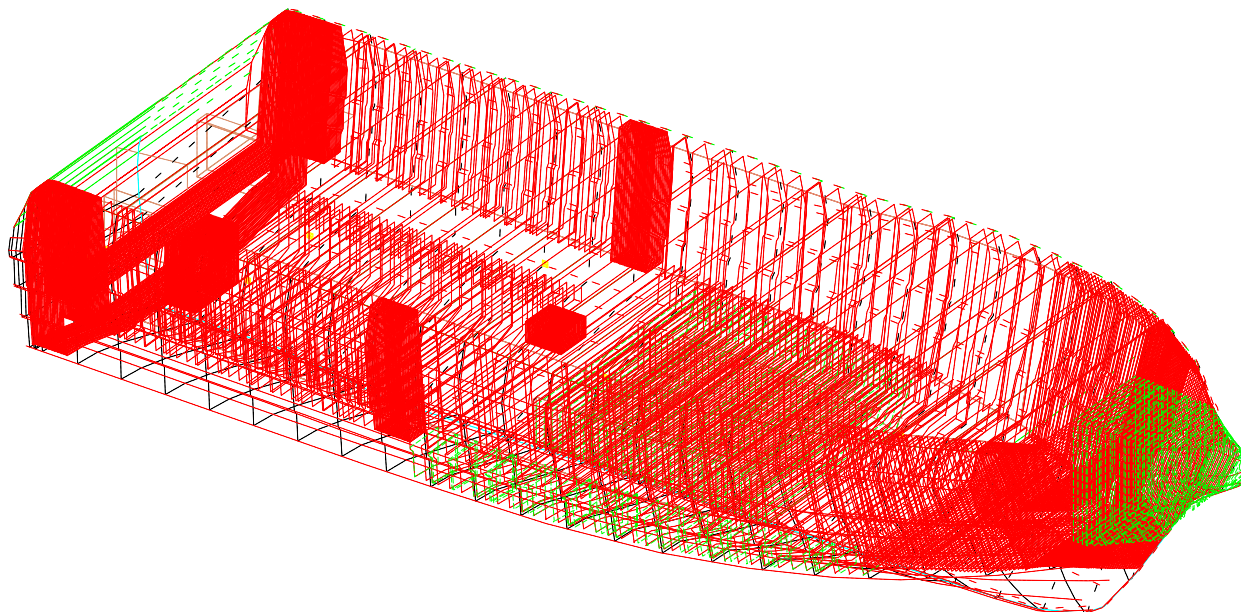
Stability conclusion ..... : NOT OK

Please note !

-Damage calculations are based on the "CONSTANT DISPLACEMENT" method.  
 -The calculation of GM is made by finding the tangency line of the GZ-curve for upright vessel (zero heel).

DAMAGE SPECIFICATION

Identification text : Penetrering u/innerliner



COMPARTMENTS DAMAGED TO SEA

Id.text	Permeability	Damaged Volume at Equilibrium (m3)	Fl.Conn.
Indre volum	0.9500	2.543	
Innerliner	0.9500	5.775	1 9 10

All liquid cargo in damaged compartm. WILL BE REMOVED prior to the calculations

## COMPARTMENTS FLOODED FROM OPENINGS AND OVERFLOW SYSTEMS

Id.text	Permeability	Max.Vol.(m3)	Fl.Conn.	
Innerliner	0.9500	6.079	1 9	10

No compartments are combined with each other

No structural damage is specified



## Flood Opening Results

-----  
 Loading Condition no. : 22 ,Begr. 6 fiskere jevnt fordelt  
 Damage identification : Penetrering u/innerliner

No.	Identification text	Type	OvFl Syst	X (m)	Y (m)	Z (m)	Flooding Above	
							Angle (degr)	Sea (m)
1*	Terskel akter styrbord	Local flood.		0.0	0.9	0.63	0.00*	-1.31
2	Knekk i skrog X=1.5	Ref. point		1.5	-1.0	0.24	0.00	-0.97
3	Dreneringsåpning stb	Ref. point		-0.1	0.4	0.42	0.00	-1.21
4	Lukekarmhjørne bb	Ref. point		0.7	-0.2	0.48	0.00	-1.23
5	Lukekarmhjørne stb	Ref. point		0.7	0.2	0.48	0.00	-1.14
6	Rekke midtskips	Ref. point		3.2	1.0	1.14	0.39	-1.10
7	Rekke akter	Ref. point		0.1	0.9	1.08	0.00	-1.72
8	Rekke forut	Ref. point		4.8	0.8	1.26	10.70	-0.93
9*	Fyll pkt over innerliner	Local flood.		0.0	0.4	0.50	0.00*	-1.27

Above Sea is vertical distance from opening to sea at equilibrium.

\*) This flood opening is connected to a damaged compartment.

\*\*\*) Flooding angle is outside of specified heel range.

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## Freeboard to Deck

-----  
 Loading Condition no. : 22 ,Begr. 6 fiskere jevnt fordelt  
 Damage identification : Penetrering u/innerliner

No.	X (m)	Y (m)	Z (m)	Freeboard	
				Starboard (m)	Port (m)
1	-0.077	0.000	0.869	-1.722	-1.722
2	-0.075	1.024	0.874	-1.538	-1.915
3	-0.050	1.017	0.933	-1.591	-1.965
4	-0.025	1.009	0.993	-1.644	-2.016
5	0.000	1.006	1.055	-1.699	-2.070
6	0.008	1.005	1.075	-1.717	-2.087
7	0.048	1.003	1.118	-1.750	-2.120
8	0.250	1.010	1.126	-1.714	-2.086
9	0.500	1.019	1.126	-1.659	-2.034
10	0.750	1.027	1.126	-1.605	-1.983
11	1.000	1.034	1.126	-1.551	-1.932
12	1.250	1.040	1.131	-1.501	-1.884
13	1.500	1.047	1.135	-1.451	-1.836
14	1.750	1.055	1.136	-1.397	-1.786
15	2.000	1.063	1.137	-1.344	-1.735
16	2.250	1.070	1.138	-1.290	-1.685
17	2.500	1.077	1.139	-1.237	-1.634
18	2.750	1.082	1.138	-1.183	-1.581
19	3.000	1.087	1.138	-1.128	-1.528
20	3.250	1.092	1.140	-1.076	-1.478
21	3.500	1.086	1.167	-1.050	-1.450
22	3.750	1.079	1.194	-1.025	-1.422
23	4.000	1.051	1.222	-1.004	-1.391
24	4.250	1.018	1.239	-0.973	-1.348
25	4.500	0.974	1.252	-0.940	-1.299
26	4.750	0.915	1.263	-0.909	-1.246
27	5.000	0.816	1.271	-0.882	-1.182
28	5.250	0.692	1.274	-0.855	-1.110
29	5.500	0.530	1.273	-0.830	-1.025
30	5.750	0.280	1.256	-0.808	-0.911
31	6.000	0.079	1.256	-0.791	-0.820
32	6.013	0.000	1.256	-0.803	-0.803

Freeboard is vertical distance from deck point to sea at equilibrium.  
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