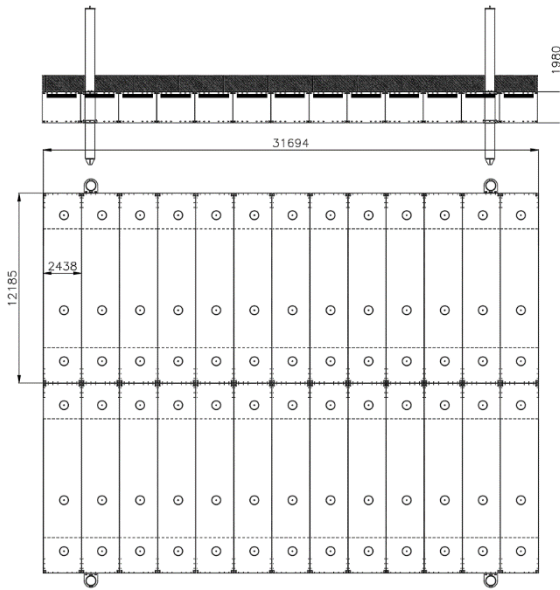


10-06-2024

”MPS PONTOON”
31.69x24.38x1.98m”



Specification : **Stability with passengers on board** **Project MPS 23-188**

Calculated for : Modular Pontoon system BV
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5308 JH AALST GLD
The Netherlands

Project		23_188 pontoon 24.38x31.69x1.98 m
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Revision	Date	Status
-	29/02/2024	Stability calculations; intact and damage

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February 2024

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1. ABBREVIATIONS AND UNITS

Hydrostatic curves

Draft from base	- (m)
Waterplane area	- (m^2)
Centre of floatation	- Centre of floatation of the waterline (m)
Mom. of inertia long.	- Moment of inertia longitudinal (m^4)
Mom. of inertia tran.	- Moment of inertia transverse (m^4)
Ton/cm immersion	- (Ton/cm)
Volume	- Volume displacement (m^3)
Volume & appendages	- Volume displacement with appendages (m^3)
Displacement	- Weight displacement (Ton)
Vert. center buoyancy	- Vertical center of buoyancy (m)
Long. center buoyancy	- Longitudinal center of buoyancy (m)
KM transverse	- Vertical distance between the transverse metacenter and the baseline (m)
KM longitudinal	- Vertical distance between the longitudinal metacenter and the baseline (m)
Mom change trim 1 cm	- Moment to change trim 1 cm (Tonm)
Wetted surface	- (m^2)

Crosscurves

Volume	- Volume displacement (m^3)
Displ.	- Weight displacement (Ton)
Draft	- The distance between the intersection centerline-heeling waterline and the baseline (m)
LCB	- Longitudinal center of buoyancy (m)
TCB	- Transverse center of buoyancy (m)
VCB	- Vertical center of buoyancy (m)
KN sin phi	- Righting lever when KG is 0 (m)

The App is situated at the aft end of the vessel

The Fpp is situated at the fore end of the vessel (31.699 from App)

The mean draft is measured at 15.85 m. forward of APP.

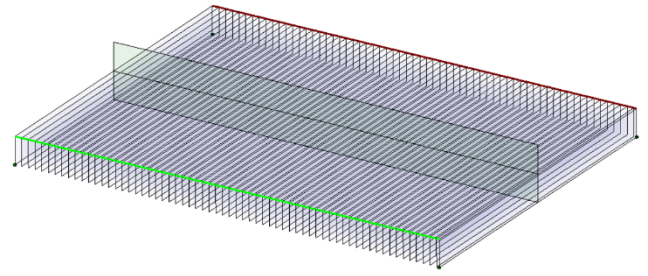
All vertical distances are related to the baseline.

All longitudinal distances are related to APP (aft end of vessel).

2. GENERAL DATA

GENERAL PARTICULARS

Name	MPS 24.38*31.69*1.98 m
Length	31.69 m
Breadth moulded	24.38 m
Depth	1.98 m



NOTE :

In the general arrangement plan the vessel is 24.38 m in length and 31.69 m in breadth. The vessel is rotated 90 degrees for the calculations. The length is now 31.69m and the breadth is 24.38 m. In this way the stability calculation are unfavourable for the vessel and this is the safest way for the vessel with the passengers on board.

INPUT DATA HULLFORM

The hull form is according the drawings of MPS.
The vessel is symmetric.

COMPARTMENTS

The compartments are according the drawings MPS.
All not used compartments in the MPS pontoons are empty and dry in the calculations.

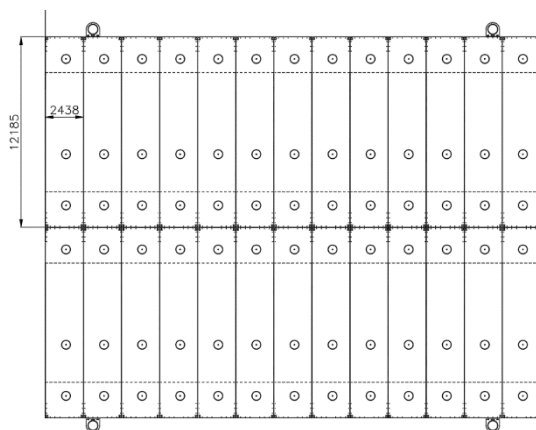
All not used compartments should be empty and dry. Rests of water have a negative effect on the stability.

OPENINGS

No non-watertight openings have been taken into account for the stability calculations.
All openings are to be closed watertight.
Margin lines points at the baseline are used for the stability criteria.

Light Ship Weight

- Light ship weight, according calculations
VCG is taken at deck level, 1.98 m above base line.



In the table on the next page, the weights of all the MPS units are added to calculate the weight and centre of gravity of the pontoon.

31.69x24.38x1.98

container position		container nr	weight [ton]	vcg [m]	lcg [m]	tcg [m]	vmom [tonm]	lmom [tonm]	tmom [tonm]
row 1,1	SB side	MPS 465	11.700	1.981	1.219	6.096	23.180	14.265	71.323
row 1,-1	PS side	MPS 465	11.700	1.981	1.219	-6.096	23.180	14.265	-71.323
row 2,1	SB side	MPS 465	11.700	1.981	3.658	6.096	23.180	42.794	71.323
row 2,-1	PS side	MPS 465	11.700	1.981	3.658	-6.096	23.180	42.794	-71.323
row 3,1	SB side	MPS 465	11.700	1.981	6.096	6.096	23.180	71.323	71.323
row 3,-1	PS side	MPS 465	11.700	1.981	6.096	-6.096	23.180	71.323	-71.323
row 4,1	SB side	MPS 465	11.700	1.981	8.534	6.096	23.180	99.852	71.323
row 4,-1	PS side	MPS 465	11.700	1.981	8.534	-6.096	23.180	99.852	-71.323
row 5,1	SB side	MPS 465	11.700	1.981	10.973	6.096	23.180	128.382	71.323
row 5,-1	PS side	MPS 465	11.700	1.981	10.973	-6.096	23.180	128.382	-71.323
row 6,1	SB side	MPS 465	11.700	1.981	13.411	6.096	23.180	156.911	71.323
row 6,-1	PS side	MPS 465	11.700	1.981	13.411	-6.096	23.180	156.911	-71.323
row 7,1	SB side	MPS 465	11.700	1.981	15.850	6.096	23.180	185.440	71.323
row 7,-1	PS side	MPS 465	11.700	1.981	15.850	-6.096	23.180	185.440	-71.323
row 8,1	SB side	MPS 465	11.700	1.981	18.288	6.096	23.180	213.970	71.323
row 8,-1	PS side	MPS 465	11.700	1.981	18.288	-6.096	23.180	213.970	-71.323
row 9,1	SB side	MPS 465	11.700	1.981	20.726	6.096	23.180	242.499	71.323
row 9,-1	PS side	MPS 465	11.700	1.981	20.726	-6.096	23.180	242.499	-71.323
row 10,1	SB side	MPS 465	11.700	1.981	23.165	6.096	23.180	271.028	71.323
row 10,-1	PS side	MPS 465	11.700	1.981	23.165	-6.096	23.180	271.028	-71.323
row 11,1	SB side	MPS 465	11.700	1.981	25.603	6.096	23.180	299.557	71.323
row 11,-1	PS side	MPS 465	11.700	1.981	25.603	-6.096	23.180	299.557	-71.323
row 12,1	SB side	MPS 465	11.700	1.981	28.042	6.096	23.180	328.087	71.323
row 12,-1	PS side	MPS 465	11.700	1.981	28.042	-6.096	23.180	328.087	-71.323
row 13,1	SB side	MPS 465	11.700	1.981	30.480	6.096	23.180	356.616	71.323
row 13,-1	PS side	MPS 465	11.700	1.981	30.480	-6.096	23.180	356.616	-71.323
Total configuration			304.200	1.981	15.850	0.000	602.681	4821.448	0.000

MISCELLANEOUS ITEMS ON DECK

Spuds

The vessel is equipped with spuds.

The spud are grounded and have no influence on the pontoon.

The spud carriers are mounted to the pontoon and are taken into account in the calculations.

Description	Weight ton	VCG m	LCG m	TCG m
Subtotals for group : Spuds				
Spud carrier 1	1.330	1.000	3.047	0.000
Spud carrier 2	1.330	1.000	28.647	0.000
Spud carrier 3	1.330	1.000	3.047	0.000
Spud carrier 4	1.330	1.000	28.647	0.000
SUBTOTAL	5.320	1.000	15.847	0.000
Subtotals for group : Deck equipment				
railing & misc	1.000	2.500	15.850	0.000
SUBTOTAL	1.000	2.500	15.850	0.000

WATER BALLAST

No water ballast has been calculated in the pontoon.

EXTERNAL MOMENTS THAT AFFECT THE STABILITY

The external moments are :

- Wind moment (25 kg/m²)
- Passenger moment

PASSENGERS ON BOARD

Passengers can walk on board via the other pontoons.

The maximum number of passengers are calculated.

The number of persons is 2.5 person per m². The weight of a person is 75 kg.

For this pontoon the maximum number of persons is 1932.1 person.

Passenger moment.

The passenger moment has been calculated with 3.75 person per m².

The 1932.1 passengers will move to SB or to PS. Therefore the passenger moments are calculated to both sides.

The stability for each loading conditions is calculated to SB and to PS.

The pontoon has 13 rows of MPS units. The number of passengers and the moments are calculated per rectangle block/rows. This pontoon is a symmetric rectangular pontoon; so only 1 block has been calculated.

Also the stability calculations are only be performed to SB. The PS calculations have the same result.

The calculations of passenger moments are presented in the table below.

position	Length [m]	Breadth [m]	Area [m]	max nr. of passengers	weight of passengers [ton]	lever pass 3.75 p/m2 PS [m]	lever pass 3.75 p/m2 SB [m]	mom pass 3.75 p/m2 PS [tonm]	mom pass 3.75 p/m2 SB [tonm]
deck	31.70	24.38	772.82	1932.1	144.90	4.063	4.063	588.793	588.793
Total passengers				1932.1	144.90	4.063	4.063	588.793	588.793

Position of passengers

	Weight	VCG	LCG	TCG	Vmom	Lmom	Tmom
passengers	[ton]		[m]	[m]	[m] [tonm]	[tonm]	[tonm]
deck	144.90	3.00	15.85	0.00	434.71	2296.66	0.00
	144.90	3.00	15.85	0.00	434.71	2296.66	0.00

STABILITY CRITERIA

Criteria are according regulation NR612 DT R01 MARCH 2023

Intact stability

CRITERIA :

- the residual safety clearance is not less than:
 - 0.30 m for weathertight apertures
 - 0.40 m for unprotected openings
- the residual freeboard value is at least 0.30 m
- The angle of list is not to exceed 10° and the base of the hull shall not emerge.

Calculated in stability software

Minimum metacentric height G'M

Maximum statical angle of inclination due to wind- and passenger moment

Distance between waterline and deck due to wind- and passenger moment

Base of hull submerged (distance > 0)

Criterion

0.150

meter

10.000

degrees SB

0.300

meter

0.000

meter

Damage stability

EXTEND OF DAMAGE

SIDE DAMAGE		
Longitudinal	$0.1 \cdot L_{wl}$	3.170
Breadth	$B/5$	4.876
Vertical	top/bottom	

BOTTOM DAMAGE		
Longitudinal	$0.1 \cdot L_{wl}$	3.170
Breadth	$B/5$	4.876
Vertical	0.59 m	

CRITERIA :

- Under the combined action of heeling moments, the residual freeboard and the residual safety clearance are not less than 0.10 m.

In each calculated loading condition the values criteria are calculated and presented.

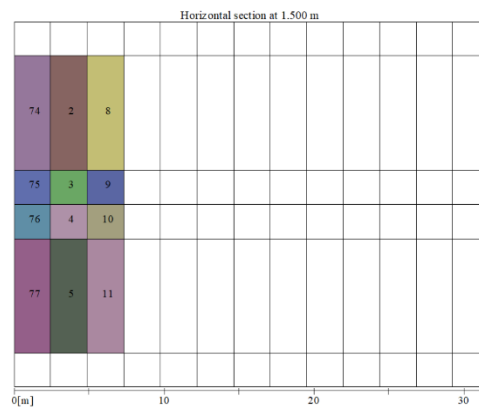
Calculated damage cases

The following damage cases have been calculated :

Damage case : AFT Center

Damaged and flooded compartments

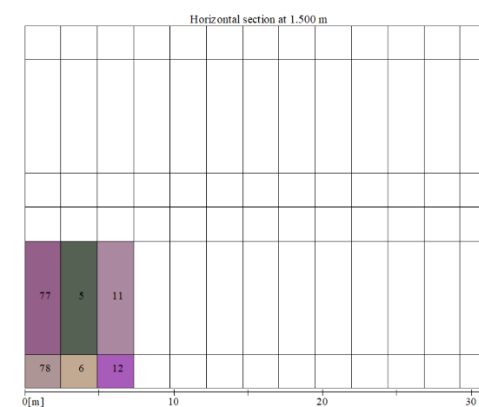
New compartment (198)|||A
 New compartment (198)|||A
 New compartment (198)||A|
 New compartment (198)||A|A|
 New compartment (198)|A|||A
 New compartment (198)|A|||A
 New compartment (198)|A||A|
 New compartment (198)|A||A|A
 New compartment (199)|||A
 New compartment (199)||A
 New compartment (199)|A|
 New compartment (199)|A|A|



Damage case : AFT SB

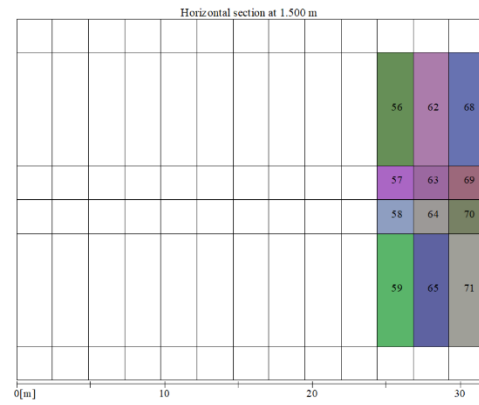
Damaged and flooded compartments

New compartment (198)||A|A|
 New compartment (198)||A|A|A
 New compartment (198)|A||A|A
 ew compartment (198)|A||A|AA
 New compartment (199)|A|A|
 New compartment (199)|A|A|A



Damaged and flooded compartments

partment (198)|A|A|A|AAAAAAD
partment (198)|A|A|A|AAAAAAC
partment (198)|A|A|A|AAAAAAB
artment (198)|A|A|A|AAAAABA
artment (198)|A|A|A|AAAAAAD
artment (198)|A|A|A|AAAAAAC
artment (198)|A|A|A|AAAAAAB
rtment (198)|A|A|A|AAAAABA
rtment (198)|A|A|A|AAAAAAC
rtment (198)|A|A|A|AAAAAAB
rtment (198)|A|A|A|AAAAAAA
tment (198)|A|A|A|AAAAAAA



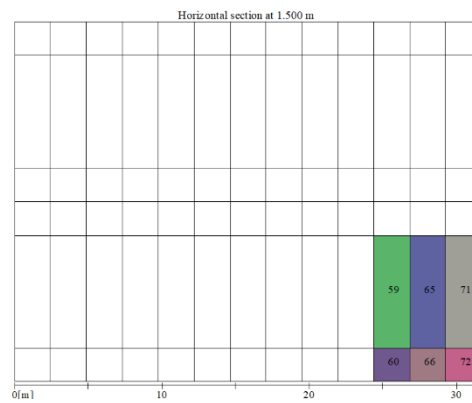
Damage case : Fore SB

Damaged and flooded compartments

```

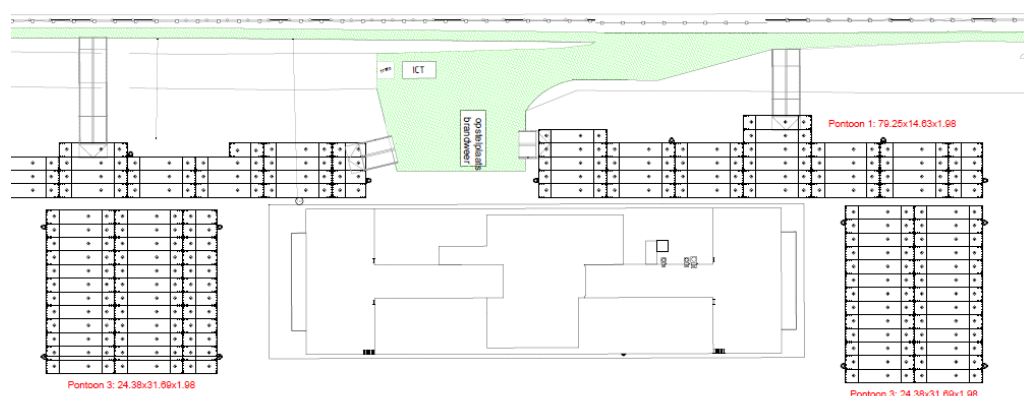
artment (198)|A|A|A|AAAAAABA
rtment (198)|A|A|A|AAAAAABAA
rtment (198)|A|A|A|AAAAAABA
tment (198)|A|A|A|AAAAAABAA
tment (198)|A|A|A|AAAAAABAAA
ment (198)|A|A|A|AAAAAABAAAA

```



CONCLUSION AND RESULTS OF CALCULATIONS

The MPS pontoon 31.69*24.38*1.98 m is equipped spud carriers and railing.



Passengers will be able to enter the pontoon via the other pontoons.

The maximum number of passengers on the pontoon is 1932 (based on 2.5 passenger/m²)

The passenger moments is due to crowded passengers to the side (based on 3.75 passenger/m²)

The loading conditions are tested to the NR612 rules for harbour equipment.

Intact and damage stability calculations have been performed.

INTACT STABILITY

A summary of the calculated loading conditions is presented in the following table :

==INTACT STABILITY== condition	draft		trim [m]	Angle of inclination [degr]	Minimum freeboard [m]	Minimum draft [m]	Stability
	aft [m]	fore [m]					
Light pontoon	0.39	0.39	0.00	0.00	1.59	0.39	OK
Pontoon with equipment	0.40	0.40	0.00	0.00	1.58	0.40	OK
Pontoon with equipment & 1932 passengers (max passengers)	0.59	0.59	0.00	0.00	1.39	0.59	OK
Pontoon with equipment & 1932 passengers to SB (or PS)	0.59	0.59	0.00	0.92 SB	1.19	0.39	OK

The vessel complies the intact stability criteria in all the calculated conditions. The minimum draft is 0.39 m (>0.0m) and the freeboard is 1.19 m (>0.3m)

DAMAGE STABILITY

The damage stability is calculated for the conditions with the passengers to the side.

A summary of the calculated damage cases is presented in the following table :

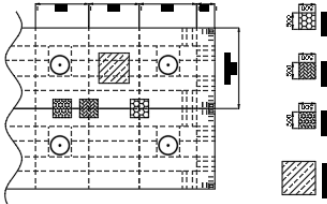
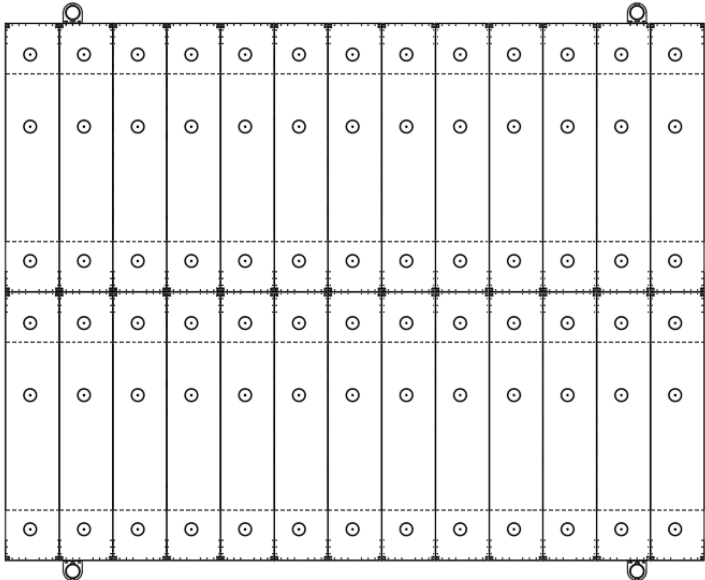
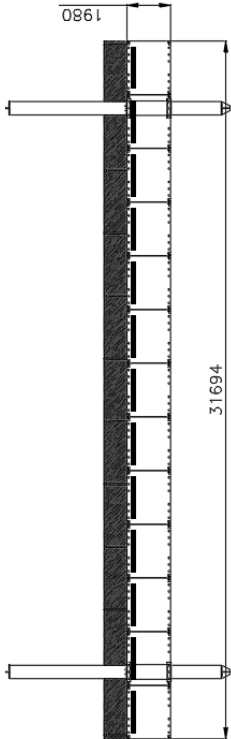
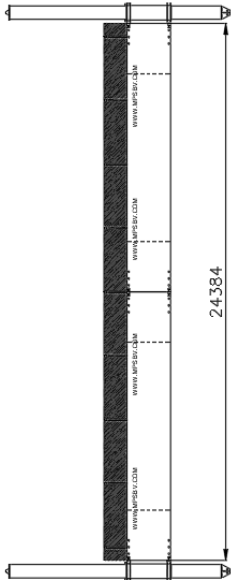
Per loading condition the worst damage case is given.

A summary of the all damage cases of all loading conditions can be found on page 88.


==DAMAGE STABILITY==		draft		trim	Angle of	Minimum	Stability
damage case		aft [m]	fore [m]	[m]	inclination [degr]	freeboard [m]	
==Pontoon with equipment & 1932 passengers (max passengers)							
Worst damage case : Damage case: AFT Center		1.29	0.31	-0.97	1.23 SB	0.69	OK
== Pontoon with equipment & 1932 passengers to SB (or PS)							
Worst damage case : Damage case: AFT Center		1.29	0.31	-0.97	6.18 PS	0.47	OK

The minimum freeboard in the calculations is 0.47 m (>0.1m).

REV	DATE	DRWN	CHECKED	APPROVED	REMARK




- Assembly consists:
- MPS container type 40' : 26 pcs
 - MPS container type 40'+ : 0 pcs
 - MPS container type 20' : 0 pcs
 - MPS container type 20' SP : 0 pcs



MODULAR PONTOON SYSTEMS BV

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NAME General Arrangement Pontoon 3: 24,38x31,69x1,98		Project 		Sheet 1 of 1
SCALE 1:150	DATE 27-10-2023	DRAWING 23_188-03		Rev.
CHECKED BY	ORDER NO. 23_188			
DRAWN BY: SE	DESIGNER: AZ			COPYRIGHT RESERVED MPS BV

3. HYDROSTATIC PARTICULARS

HYDROSTATIC PARTICULARS

pontoon 31.69x24.38x1.98m

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Trim = 0.000 m

Draft from base m	Displ. [density 1.0000] ton	Immer- sion ton/cm	Moment change trim tonm/cm	LCB from APP m	TCB from CL m	LCF from APP m	KM transv. m
0.200	154.47	7.72	20.41	15.849	0.000	15.849	247.486
0.220	169.92	7.72	20.41	15.850	0.000	15.850	225.011
0.240	185.36	7.72	20.41	15.849	0.000	15.849	206.284
0.260	200.81	7.72	20.41	15.850	0.000	15.850	190.439
0.280	216.26	7.72	20.41	15.849	0.000	15.850	176.859
0.300	231.71	7.72	20.41	15.849	0.000	15.850	165.092
0.320	247.16	7.72	20.41	15.850	0.000	15.849	154.795
0.340	262.61	7.72	20.41	15.850	0.000	15.849	145.711
0.360	278.05	7.72	20.41	15.849	0.000	15.849	137.639
0.380	293.50	7.72	20.41	15.849	0.000	15.850	130.418
0.400	308.95	7.72	20.41	15.850	0.000	15.849	123.919
0.420	324.40	7.72	20.41	15.850	0.000	15.849	118.040
0.440	339.85	7.72	20.41	15.850	0.000	15.849	112.697
0.460	355.30	7.73	20.41	15.850	0.000	15.849	107.818
0.480	370.75	7.72	20.41	15.850	0.000	15.849	103.347
0.500	386.20	7.72	20.41	15.849	0.000	15.850	99.236
0.520	401.65	7.72	20.41	15.849	0.000	15.849	95.440
0.540	417.10	7.73	20.41	15.850	0.000	15.849	91.927
0.560	432.55	7.72	20.41	15.849	0.000	15.850	88.666
0.580	448.00	7.73	20.41	15.850	0.000	15.849	85.629
0.600	463.45	7.72	20.41	15.849	0.000	15.851	82.796
0.620	478.90	7.73	20.41	15.850	0.000	15.850	80.146
0.640	494.35	7.73	20.41	15.849	0.000	15.849	77.664
0.660	509.80	7.73	20.41	15.849	0.000	15.850	75.331
0.680	525.25	7.72	20.41	15.849	0.000	15.851	73.136
0.700	540.70	7.73	20.41	15.850	0.000	15.849	71.068
0.720	556.15	7.73	20.41	15.850	0.000	15.849	69.116
0.740	571.60	7.73	20.41	15.850	0.000	15.849	67.269
0.760	587.05	7.73	20.41	15.850	0.000	15.847	65.521
0.780	602.50	7.73	20.41	15.849	0.000	15.849	63.861
0.800	617.95	7.73	20.41	15.850	0.000	15.850	62.285

HYDROSTATIC PARTICULARS
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:07:00

Trim = 0.000 m

Draft from base m	Displ. [density 1.0000] ton	Immer- sion ton/cm	Moment change trim tonm/cm	LCB from APP m	TCB from CL m	LCF from APP m	KM transv. m
0.820	633.41	7.73	20.41	15.849	0.000	15.851	60.788
0.840	648.86	7.73	20.41	15.850	0.000	15.850	59.361
0.860	664.31	7.73	20.41	15.849	0.000	15.849	58.002
0.880	679.76	7.73	20.41	15.850	0.000	15.848	56.704
0.900	695.21	7.73	20.41	15.850	0.000	15.849	55.464
0.920	710.67	7.73	20.42	15.849	0.000	15.851	54.279
0.940	726.12	7.73	20.42	15.850	0.000	15.848	53.146
0.960	741.57	7.73	20.41	15.850	0.000	15.849	52.059
0.980	757.02	7.73	20.42	15.849	0.000	15.850	51.018
1.000	772.47	7.73	20.42	15.850	0.000	15.849	50.018
1.020	787.93	7.73	20.42	15.849	0.000	15.848	49.059
1.040	803.38	7.73	20.42	15.850	0.000	15.848	48.135
1.060	818.83	7.73	20.42	15.849	0.000	15.850	47.247
1.080	834.29	7.73	20.42	15.850	0.000	15.849	46.394
1.100	849.74	7.73	20.42	15.849	0.000	15.848	45.571
1.120	865.19	7.73	20.42	15.849	0.000	15.852	44.778
1.140	880.65	7.73	20.42	15.850	0.000	15.850	44.014
1.160	896.10	7.73	20.42	15.849	0.000	15.849	43.275
1.180	911.55	7.73	20.42	15.849	0.000	15.849	42.562
1.200	927.01	7.73	20.42	15.850	0.000	15.850	41.874
1.220	942.46	7.73	20.42	15.850	0.000	15.850	41.208
1.240	957.92	7.73	20.42	15.850	0.000	15.849	40.564
1.260	973.37	7.73	20.42	15.849	0.000	15.849	39.940
1.280	988.83	7.73	20.42	15.849	0.000	15.849	39.337
1.300	1004.28	7.73	20.42	15.849	0.000	15.849	38.753
1.320	1019.73	7.73	20.42	15.849	0.000	15.849	38.187
1.340	1035.19	7.73	20.42	15.849	0.000	15.849	37.638
1.360	1050.64	7.73	20.42	15.849	0.000	15.850	37.103
1.380	1066.10	7.73	20.42	15.849	0.000	15.850	36.587
1.400	1081.55	7.73	20.42	15.850	0.000	15.850	36.085
1.420	1097.01	7.73	20.42	15.850	0.000	15.850	35.597

HYDROSTATIC PARTICULARS
pontoon 31.69x24.38x1.98m

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Trim = 0.000 m

Draft from base m	Displ. [density 1.0000] ton	Immer- sion ton/cm	Moment change trim tonm/cm	LCB from APP m	TCB from CL m	LCF from APP m	KM transv. m
1.440	1112.46	7.73	20.42	15.850	0.000	15.850	35.125
1.460	1127.92	7.73	20.42	15.850	0.000	15.847	34.663
1.480	1143.38	7.73	20.42	15.849	0.000	15.850	34.215
1.500	1158.83	7.73	20.42	15.849	0.000	15.849	33.779
1.520	1174.29	7.73	20.42	15.850	0.000	15.848	33.355
1.540	1189.74	7.73	20.42	15.849	0.000	15.849	32.942
1.560	1205.20	7.73	20.42	15.850	0.000	15.850	32.541
1.580	1220.66	7.73	20.42	15.850	0.000	15.848	32.150
1.600	1236.11	7.73	20.42	15.849	0.000	15.849	31.768
1.620	1251.57	7.73	20.42	15.850	0.000	15.846	31.396
1.640	1267.03	7.73	20.42	15.849	0.000	15.850	31.033
1.660	1282.48	7.73	20.42	15.849	0.000	15.852	30.681
1.680	1297.94	7.73	20.42	15.849	0.000	15.850	30.336
1.700	1313.40	7.73	20.42	15.850	0.000	15.847	29.999
1.720	1328.86	7.73	20.42	15.849	0.000	15.852	29.672
1.740	1344.31	7.73	20.42	15.849	0.000	15.849	29.350
1.760	1359.77	7.73	20.42	15.850	0.000	15.846	29.038
1.780	1375.23	7.73	20.42	15.849	0.000	15.854	28.732
1.800	1390.69	7.73	20.42	15.849	0.000	15.849	28.433

4. LOADING CONDITIONS

TRIM AND STABILITY CALCULATION pontoon 31.69x24.38x1.98m

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Loading condition : light pontoon

Description	Filling %	Density ton/m ³	Weight ton	VCG m	LCG m	TCG m	FSM tonm
Light ship	-	-	304.200	1.981	15.850	0.000	-
New compartment (198)	0.0	1.0000	0.000	0.000	3.657	-11.044	0.000
New compartment (198) A	0.0	1.0000	0.000	0.000	3.657	-6.096	0.000
New compartment (198) A	0.0	1.0000	0.000	0.000	3.657	-1.143	0.000
New compartment (198) A	0.0	1.0000	0.000	0.000	3.657	1.143	0.000
New compartment (198) A A	0.0	1.0000	0.000	0.000	3.657	6.096	0.000
New compartment (198) A A A	0.0	1.0000	0.000	0.000	3.657	11.044	0.000
New compartment (198) A	0.0	1.0000	0.000	0.000	6.096	-11.044	0.000
New compartment (198) A A	0.0	1.0000	0.000	0.000	6.096	-6.096	0.000
New compartment (198) A A	0.0	1.0000	0.000	0.000	6.096	-1.143	0.000
New compartment (198) A A A	0.0	1.0000	0.000	0.000	6.096	1.143	0.000
ew compartment (198) A A AA	0.0	1.0000	0.000	0.000	6.096	6.096	0.000
New compartment (198) A A	0.0	1.0000	0.000	0.000	8.535	-11.044	0.000
ew compartment (198) A A B	0.0	1.0000	0.000	0.000	8.535	-6.096	0.000
ew compartment (198) A A A	0.0	1.0000	0.000	0.000	8.535	-1.143	0.000
New compartment (198) A A A	0.0	1.0000	0.000	0.000	8.535	1.143	0.000
ew compartment (198) A A A A	0.0	1.0000	0.000	0.000	8.535	6.096	0.000
w compartment (198) A A A AA	0.0	1.0000	0.000	0.000	8.535	11.044	0.000
New compartment (198) A A A A	0.0	1.0000	0.000	0.000	10.973	-11.044	0.000
ew compartment (198) A A A D	0.0	1.0000	0.000	0.000	10.973	-6.096	0.000
ew compartment (198) A A A C	0.0	1.0000	0.000	0.000	10.973	-1.143	0.000
ew compartment (198) A A A B	0.0	1.0000	0.000	0.000	10.973	1.143	0.000
w compartment (198) A A A BA	0.0	1.0000	0.000	0.000	10.973	6.096	0.000
compartment (198) A A A BAA	0.0	1.0000	0.000	0.000	10.973	11.044	0.000
ew compartment (198) A A A A	0.0	1.0000	0.000	0.000	13.411	-11.044	0.000
w compartment (198) A A A AD	0.0	1.0000	0.000	0.000	13.411	-6.096	0.000
w compartment (198) A A A AC	0.0	1.0000	0.000	0.000	13.411	-1.143	0.000
w compartment (198) A A A AB	0.0	1.0000	0.000	0.000	13.411	1.143	0.000
compartment (198) A A A ABA	0.0	1.0000	0.000	0.000	13.411	6.096	0.000
compartment (198) A A A ABAA	0.0	1.0000	0.000	0.000	13.411	11.044	0.000
w compartment (198) A A A AA	0.0	1.0000	0.000	0.000	15.850	-11.044	0.000
compartment (198) A A A AAD	0.0	1.0000	0.000	0.000	15.850	-6.096	0.000
compartment (198) A A A AAC	0.0	1.0000	0.000	0.000	15.850	-1.143	0.000
compartment (198) A A A AAB	0.0	1.0000	0.000	0.000	15.850	1.143	0.000
compartment (198) A A A AABA	0.0	1.0000	0.000	0.000	15.850	6.096	0.000
ompartment (198) A A A AABAA	0.0	1.0000	0.000	0.000	15.850	11.044	0.000
compartment (198) A A A AAA	0.0	1.0000	0.000	0.000	18.288	-11.044	0.000
compartment (198) A A A AAAD	0.0	1.0000	0.000	0.000	18.288	-6.096	0.000
compartment (198) A A A AAAC	0.0	1.0000	0.000	0.000	18.288	-1.143	0.000
compartment (198) A A A AAAB	0.0	1.0000	0.000	0.000	18.288	1.143	0.000
ompartment (198) A A A AAABA	0.0	1.0000	0.000	0.000	18.288	6.096	0.000
mpartment (198) A A A AAABAA	0.0	1.0000	0.000	0.000	18.288	11.044	0.000
compartment (198) A A A AAAA	0.0	1.0000	0.000	0.000	20.726	-11.044	0.000
ompartment (198) A A A AAAAD	0.0	1.0000	0.000	0.000	20.726	-6.096	0.000
ompartment (198) A A A AAAAC	0.0	1.0000	0.000	0.000	20.726	-1.143	0.000
ompartment (198) A A A AAAAB	0.0	1.0000	0.000	0.000	20.726	1.143	0.000
mpartment (198) A A A AAAABA	0.0	1.0000	0.000	0.000	20.726	6.096	0.000

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

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Loading condition : light pontoon

Description	Filling %	Density ton/m ³	Weight ton	VCG m	LCG m	TCG m	FSM tonm
partment (198) A A A AAAAABAA	0.0	1.0000	0.000	0.000	20.726	11.044	0.000
ompartment (198) A A A AAAAA	0.0	1.0000	0.000	0.000	23.165	-11.044	0.000
mpartment (198) A A A AAAAAAD	0.0	1.0000	0.000	0.000	23.165	-6.096	0.000
mpartment (198) A A A AAAAAAC	0.0	1.0000	0.000	0.000	23.165	-1.143	0.000
mpartment (198) A A A AAAAAB	0.0	1.0000	0.000	0.000	23.165	1.143	0.000
partment (198) A A A AAAAABA	0.0	1.0000	0.000	0.000	23.165	6.096	0.000
artment (198) A A A AAAAABAA	0.0	1.0000	0.000	0.000	23.165	11.044	0.000
mpartment (198) A A A AAAAAA	0.0	1.0000	0.000	0.000	25.603	-11.044	0.000
partment (198) A A A AAAAAAD	0.0	1.0000	0.000	0.000	25.603	-6.096	0.000
partment (198) A A A AAAAAAC	0.0	1.0000	0.000	0.000	25.603	-1.143	0.000
partment (198) A A A AAAAAAB	0.0	1.0000	0.000	0.000	25.603	1.143	0.000
artment (198) A A A AAAAAABA	0.0	1.0000	0.000	0.000	25.603	6.096	0.000
rtment (198) A A A AAAAABAA	0.0	1.0000	0.000	0.000	25.603	11.044	0.000
partment (198) A A A AAAAAAA	0.0	1.0000	0.000	0.000	28.042	-11.044	0.000
artment (198) A A A AAAAAAD	0.0	1.0000	0.000	0.000	28.042	-6.096	0.000
artment (198) A A A AAAAAAC	0.0	1.0000	0.000	0.000	28.042	-1.143	0.000
artment (198) A A A AAAAAAB	0.0	1.0000	0.000	0.000	28.042	1.143	0.000
rtment (198) A A A AAAAAABA	0.0	1.0000	0.000	0.000	28.042	6.096	0.000
tment (198) A A A AAAAABAA	0.0	1.0000	0.000	0.000	28.042	11.044	0.000
artment (198) A A A AAAAAAA	0.0	1.0000	0.000	0.000	30.480	-11.044	0.000
rtment (198) A A A AAAAAAC	0.0	1.0000	0.000	0.000	30.480	-6.096	0.000
rtment (198) A A A AAAAAAB	0.0	1.0000	0.000	0.000	30.480	-1.143	0.000
rtment (198) A A A AAAAAAA	0.0	1.0000	0.000	0.000	30.480	1.143	0.000
tment (198) A A A AAAAAABAA	0.0	1.0000	0.000	0.000	30.480	6.096	0.000
ment (198) A A A AAAAAABAA	0.0	1.0000	0.000	0.000	30.480	11.044	0.000
New compartment (199)	0.0	1.0000	0.000	0.000	1.219	-11.044	0.000
New compartment (199) A	0.0	1.0000	0.000	0.000	1.219	-6.096	0.000
New compartment (199) A	0.0	1.0000	0.000	0.000	1.219	-1.143	0.000
New compartment (199) A	0.0	1.0000	0.000	0.000	1.219	1.143	0.000
New compartment (199) A A	0.0	1.0000	0.000	0.000	1.219	6.096	0.000
New compartment (199) A A A	0.0	1.0000	0.000	0.000	1.219	11.044	0.000
TOTAL	-	-	304.200	1.981	15.850	0.000	0.000

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

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Loading condition : light pontoon

Hydrostatics

Volume	304.200	m ³
LCF	15.850	m
Mom. change trim	20.410	tonm/cm
Ton/cm immersion	7.724	ton/cm
Density	1.0000	ton/m ³

Drafts and trim

Drafts above base :	
Draft mean (Lpp/2)	0.394 m
Draft aft (App)	0.394 m
Draft fore (Fpp)	0.394 m
Trim	0.000 m

Transverse stability

KM transverse	125.847	m		
VCG	1.981	m		
GM solid	123.866	m		
GG' correction	0.000	m		
G'M liquid	123.866	m	VCG'	1.981 m

The stability values are calculated for the actual trim.

Statical stability, calculated with constant LCB :

Angle degrees		Draft mld. m	Trim m	KNsinφ m	VCG'sinφ m	TCGcosφ m	G'Nsinφ m	Area mrad
60.00	PS	-11.724	0.000	-5.700	-1.716	0.000	-3.985	7.180
50.00	PS	-7.757	-0.002	-6.976	-1.518	0.000	-5.458	6.354
40.00	PS	-5.169	0.001	-8.028	-1.273	0.000	-6.754	5.285
35.00	PS	-4.150	-0.000	-8.454	-1.136	0.000	-7.318	4.670
30.00	PS	-3.248	0.001	-8.805	-0.990	0.000	-7.814	4.010
25.00	PS	-2.433	0.000	-9.066	-0.837	0.000	-8.229	3.309
20.00	PS	-1.682	0.000	-9.211	-0.678	0.000	-8.534	2.577
15.00	PS	-0.977	-0.000	-9.169	-0.513	0.000	-8.656	1.824
10.00	PS	-0.309	0.000	-8.683	-0.344	0.000	-8.339	1.079
5.00	PS	0.230	0.000	-7.258	-0.173	0.000	-7.086	0.394
2.00	PS	0.393	0.000	-4.376	-0.069	0.000	-4.307	0.079
0.00		0.394	0.000	0.000	0.000	0.000	0.000	0.000
2.00	SB	0.393	0.000	4.376	0.069	0.000	4.307	0.079
5.00	SB	0.230	0.000	7.258	0.173	0.000	7.086	0.394
10.00	SB	-0.309	0.000	8.683	0.344	0.000	8.339	1.079
15.00	SB	-0.977	-0.000	9.169	0.513	0.000	8.656	1.824
20.00	SB	-1.682	0.000	9.211	0.678	0.000	8.534	2.577
25.00	SB	-2.433	0.000	9.066	0.837	0.000	8.229	3.309
30.00	SB	-3.248	0.001	8.805	0.990	0.000	7.814	4.010
35.00	SB	-4.150	-0.000	8.454	1.136	0.000	7.318	4.670
40.00	SB	-5.169	0.001	8.028	1.273	0.000	6.754	5.285

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

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Loading condition : light pontoon

Statical stability, calculated with constant LCB :

Angle degrees		Draft mld. m	Trim m	KNsinφ m	VCG'sinφ m	TCGcosφ m	G'Nsinφ m	Area mrad
50.00	SB	-7.757	-0.002	6.976	1.518	0.000	5.458	6.354
60.00	SB	-11.724	-0.001	5.700	1.716	0.000	3.985	7.180

Statical angle of inclination is 0.00 degrees

Contour : No deck cargo

Verification against the stability criteria "Residual freeboard >0.3 m"

Hydrostatics

Draft mld.	0.394 m
Trim	0.000 m
Statical angle of inclination	0.00 degrees
Flooding angle PS	>60.00 degrees
Flooding angle SB	>60.00 degrees

Calculated to PS

	<u>Criterion</u>	<u>Value</u>
Minimum metacentric height G'M	0.150	123.866 meter
Maximum statical angle of inclination due to wind- and passenger moment	10.000	0.000 degrees
Distance between waterline and deck due to wind- and passenger moment	0.300	1.586 meter
Base of hull submerged (distance > 0)	0.000	-0.394 meter

Calculated to SB

	<u>Criterion</u>	<u>Value</u>
Minimum metacentric height G'M	0.150	123.866 meter
Maximum statical angle of inclination due to wind- and passenger moment	10.000	0.000 degrees
Distance between waterline and deck due to wind- and passenger moment	0.300	1.586 meter
Base of hull submerged (distance > 0)	0.000	-0.394 meter

VCG'

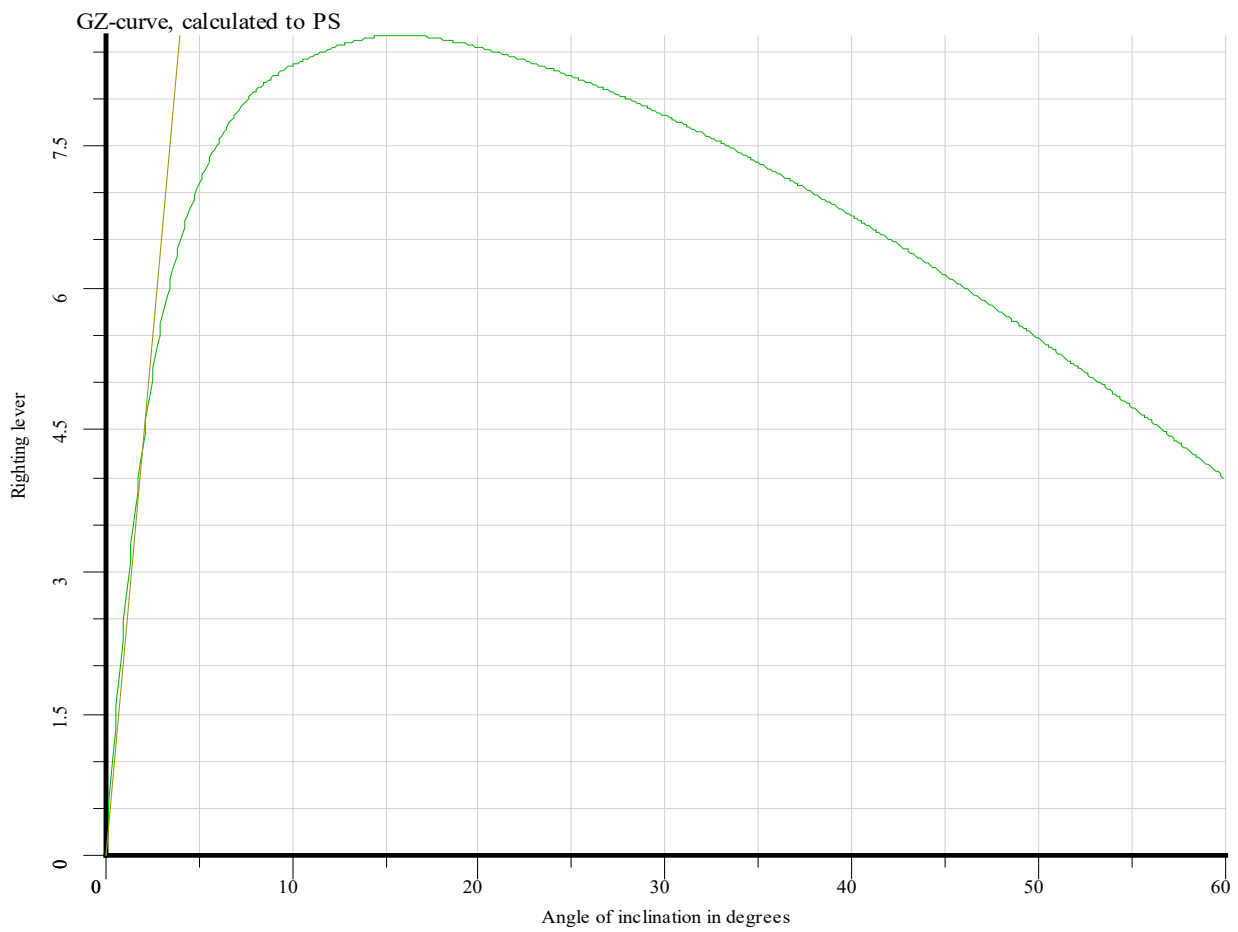
Maximum allowable PS	125.697 m
Maximum allowable SB	125.697 m
Maximum allowable	125.697 m
Actual	1.981 m

Loading condition complies with the stated criteria.

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

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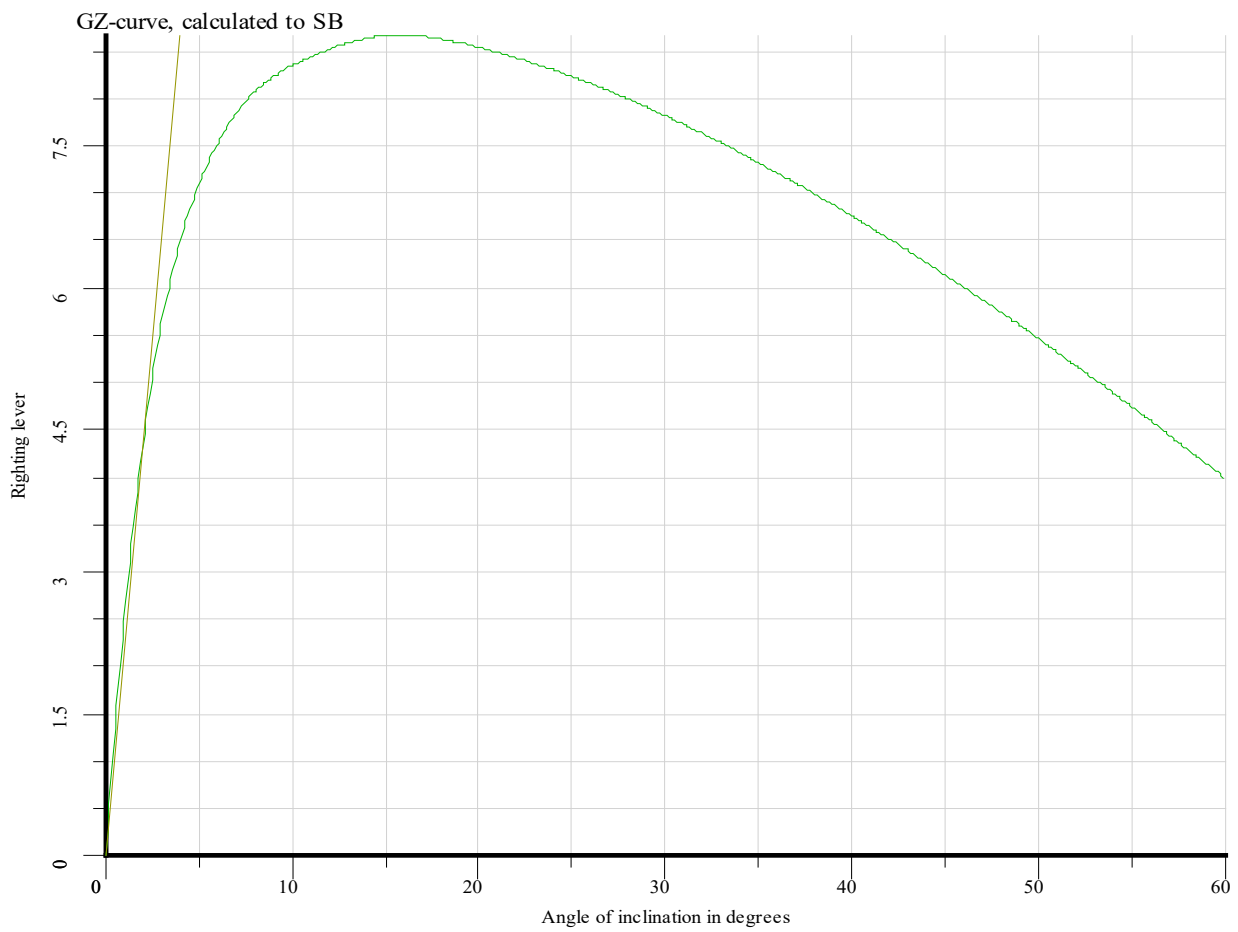
Loading condition : light pontoon



TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

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Loading condition : light pontoon



TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

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Loading condition : light pontoon

Draft at equilibrium at selected locations

Location	Length	Breadth	Height	Freeboard
aft PS	0.000	-12.192	0.000	-0.394
aft SB	0.000	12.192	0.000	-0.394
fore PS	31.699	-12.192	0.000	-0.394
fore SB	31.699	12.192	0.000	-0.394

The heights in this table are from baseline

TRIM AND STABILITY CALCULATION

pontoon 31.69x24.38x1.98m

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Loading condition : light pontoon

Wind contour : No deck cargo

0[m]

10

20

30

- | | |
|------------------------------------|------------------------------------|
| 1 New compartment (198) | 2 New compartment (198) A |
| 3 New compartment (198) A | 4 New compartment (198) A |
| 5 New compartment (198) A A | 6 New compartment (198) A A A |
| 7 New compartment (198) A | 8 New compartment (198) A A |
| 9 New compartment (198) A A | 10 New compartment (198) A A |
| 11 New compartment (198) A A A | 12 ew compartment (198) A A AA |
| 13 New compartment (198) A A A | 14 ew compartment (198) A A A B |
| 15 ew compartment (198) A A A A | 16 New compartment (198) A A A A |
| 17 ew compartment (198) A A A AA | 18 w compartment (198) A A A AAA |
| 19 New compartment (198) A A A A | 20 ew compartment (198) A A A A D |
| 21 ew compartment (198) A A A A C | 22 ew compartment (198) A A A A B |
| 23 w compartment (198) A A A A BA | 24 compartment (198) A A A A BAA |
| 25 ew compartment (198) A A A A A | 26 w compartment (198) A A A A AD |
| 27 w compartment (198) A A A A AC | 28 w compartment (198) A A A A AB |
| 29 compartment (198) A A A A ABA | 30 compartment (198) A A A A ABAA |
| 31 w compartment (198) A A A A AA | 32 compartment (198) A A A A AAD |
| 33 compartment (198) A A A A AAC | 34 compartment (198) A A A A AAB |
| 35 compartment (198) A A A A AABA | 36 ompartment (198) A A A A AABAA |
| 37 compartment (198) A A A A AAA | 38 compartment (198) A A A A AAAD |
| 39 compartment (198) A A A A AAAC | 40 compartment (198) A A A A AAAB |
| 41 ompartment (198) A A A A AAABA | 42 mpartment (198) A A A A AAABAA |
| 43 compartment (198) A A A A AAAA | 44 ompartment (198) A A A A AAAAAD |
| 45 ompartment (198) A A A A AAAAAC | 46 ompartment (198) A A A A AAAAAB |
| 47 mpartment (198) A A A A AAAAABA | 48 partment (198) A A A A AAAAABAA |
| 49 ompartment (198) A A A A AAAAA | 50 mpartment (198) A A A A AAAAAAD |
| 51 mpartment (198) A A A A AAAAAAC | 52 mpartment (198) A A A A AAAAAAB |
| 53 partment (198) A A A A AAAAAABA | 54 artment (198) A A A A AAAAAABAA |
| 55 mpartment (198) A A A A AAAAAAA | 56 partment (198) A A A A AAAAAAD |
| 57 partment (198) A A A A AAAAAAC | 58 partment (198) A A A A AAAAAAB |
| 59 artment (198) A A A A AAAAAABA | 60 rtment (198) A A A A AAAAAABAA |
| 61 partment (198) A A A A AAAAAAA | 62 artment (198) A A A A AAAAAAD |
| 63 artment (198) A A A A AAAAAAC | 64 artment (198) A A A A AAAAAAB |
| 65 rtment (198) A A A A AAAAAABA | 66 tment (198) A A A A AAAAAABAA |
| 67 artment (198) A A A A AAAAAAA | 68 rtment (198) A A A A AAAAAAC |
| 69 rtment (198) A A A A AAAAAAB | 70 rtment (198) A A A A AAAAAAA |
| 71 tment (198) A A A A AAAAAAA | 72 ment (198) A A A A AAAAAAA |
| 73 New compartment (199) | 74 New compartment (199) A |

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

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Loading condition : light pontoon

75 New compartment (199)||A
77 New compartment (199)|A|A|

76 New compartment (199)|A|
78 New compartment (199)|A|A|A

Horizontal section at 1.500 m

73	1	7	13	19	25	31	37	43	49	55	61	67
74	2	8	14	20	26	32	38	44	50	56	62	68
75	3	9	15	21	27	33	39	45	51	57	63	69
76	4	10	16	22	28	34	40	46	52	58	64	70
77	5	11	17	23	29	35	41	47	53	59	65	71
78	6	12	18	24	30	36	42	48	54	60	66	72

0[m] 10 20 30

Cross section at 15.850 m

31	32	33	34	35	36
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-12 -10 -8 -6 -4 -2 0[m] 2 4 6 8 10 12

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:05

Loading condition : Pontoon with equipment

Description	Filling %	Density ton/m ³	Weight ton	VCG m	LCG m	TCG m	FSM tonm
Light ship	-	-	304.200	1.981	15.850	0.000	-
Subtotals for group : Deck equipment							
railing & misc	-	-	1.000	2.500	15.850	0.000	-
SUBTOTAL	-	-	1.000	2.500	15.850	0.000	-
Subtotals for group : Spuds							
All spuds GROUNDED	-	-	0.000	0.000	0.000	0.000	-
Spud carrier 1	-	-	1.330	1.000	3.047	-12.682	-
Spud carrier 2	-	-	1.330	1.000	28.647	-12.682	-
Spud carrier 3	-	-	1.330	1.000	3.047	12.682	-
Spud carrier 4	-	-	1.330	1.000	28.647	12.682	-
SUBTOTAL	-	-	5.320	1.000	15.847	-0.000	-
TOTAL	-	-	310.520	1.966	15.850	-0.000	-

Hydrostatics

Volume	310.520 m ³
LCF	15.849 m
Mom. change trim	20.410 tonm/cm
Ton/cm immersion	7.725 ton/cm
Density	1.0000 ton/m ³

Drafts and trim

Drafts above base :	
Draft mean (Lpp/2)	0.402 m
Draft aft (App)	0.402 m
Draft fore (Fpp)	0.402 m
Trim	0.000 m

Transverse stability

KM transverse	123.295 m		
VCG	1.966 m		
GM solid	121.329 m		
GG' correction	0.000 m		
G'M liquid	121.329 m	VCG'	1.966 m

The stability values are calculated for the actual trim.

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:05

Loading condition : Pontoon with equipment

Statical stability, calculated with constant LCB :

Angle degrees		Draft mld. m	Trim m	KNsinφ m	VCG'sinφ m	TCGcosφ m	G'Nsinφ m	Area mrad
60.00	PS	-11.549	0.000	-5.676	-1.702	-0.000	-3.973	7.147
50.00	PS	-7.638	0.003	-6.945	-1.506	-0.000	-5.439	6.324
40.00	PS	-5.085	0.000	-7.991	-1.264	-0.000	-6.727	5.259
35.00	PS	-4.079	-0.002	-8.415	-1.128	-0.000	-7.288	4.647
30.00	PS	-3.190	0.000	-8.764	-0.983	-0.000	-7.781	3.989
25.00	PS	-2.386	0.000	-9.024	-0.831	-0.000	-8.193	3.292
20.00	PS	-1.645	0.000	-9.170	-0.672	-0.000	-8.498	2.562
15.00	PS	-0.950	-0.001	-9.130	-0.509	-0.000	-8.622	1.813
10.00	PS	-0.290	0.000	-8.649	-0.341	-0.000	-8.308	1.071
5.00	PS	0.243	0.000	-7.208	-0.171	-0.000	-7.036	0.388
2.00	PS	0.402	0.000	-4.296	-0.069	-0.000	-4.227	0.078
0.00		0.402	0.000	0.000	0.000	-0.000	0.000	0.000
2.00	SB	0.402	0.000	4.296	0.069	-0.000	4.227	0.078
5.00	SB	0.243	0.000	7.208	0.171	-0.000	7.036	0.388
10.00	SB	-0.290	0.000	8.649	0.341	-0.000	8.308	1.071
15.00	SB	-0.950	-0.001	9.130	0.509	-0.000	8.622	1.813
20.00	SB	-1.645	0.000	9.170	0.672	-0.000	8.498	2.562
25.00	SB	-2.386	0.000	9.024	0.831	-0.000	8.193	3.292
30.00	SB	-3.190	0.000	8.764	0.983	-0.000	7.781	3.989
35.00	SB	-4.079	-0.002	8.415	1.128	-0.000	7.288	4.647
40.00	SB	-5.085	0.000	7.991	1.264	-0.000	6.727	5.259
50.00	SB	-7.638	0.003	6.945	1.506	-0.000	5.439	6.324
60.00	SB	-11.549	0.000	5.676	1.702	-0.000	3.973	7.147

Statical angle of inclination is 0.00 degrees

Contour : No deck cargo

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:05

Loading condition : Pontoon with equipment

Verification against the stability criteria "Residual freeboard >0.3 m"

Hydrostatics

Draft mld.	0.402 m
Trim	0.000 m
Statcal angle of inclination	0.00 degrees
Flooding angle PS	>60.00 degrees
Flooding angle SB	>60.00 degrees

Calculated to PS

	<u>Criterion</u>	<u>Value</u>
Minimum metacentric height G'M	0.150	121.329 meter
Maximum statcal angle of inclination due to wind- and passenger moment	10.000	0.000 degrees
Distance between waterline and deck due to wind- and passenger moment	0.300	1.578 meter
Base of hull submerged (distance > 0)	0.000	-0.402 meter

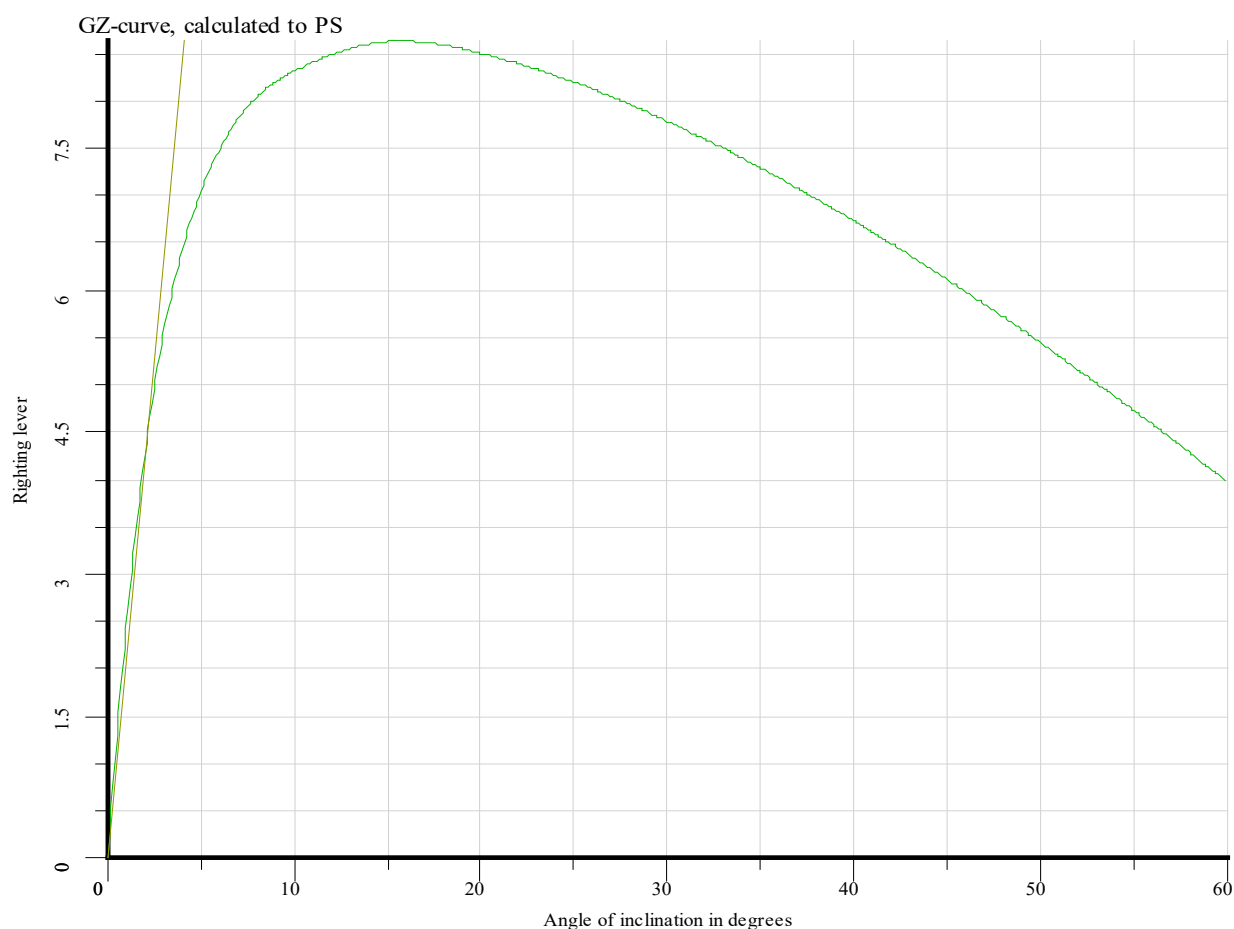
Calculated to SB

	<u>Criterion</u>	<u>Value</u>
Minimum metacentric height G'M	0.150	121.329 meter
Maximum statcal angle of inclination due to wind- and passenger moment	10.000	0.000 degrees
Distance between waterline and deck due to wind- and passenger moment	0.300	1.578 meter
Base of hull submerged (distance > 0)	0.000	-0.402 meter

VCG'

Maximum allowable PS	123.145 m
Maximum allowable SB	123.145 m
Maximum allowable	123.145 m
Actual	1.966 m

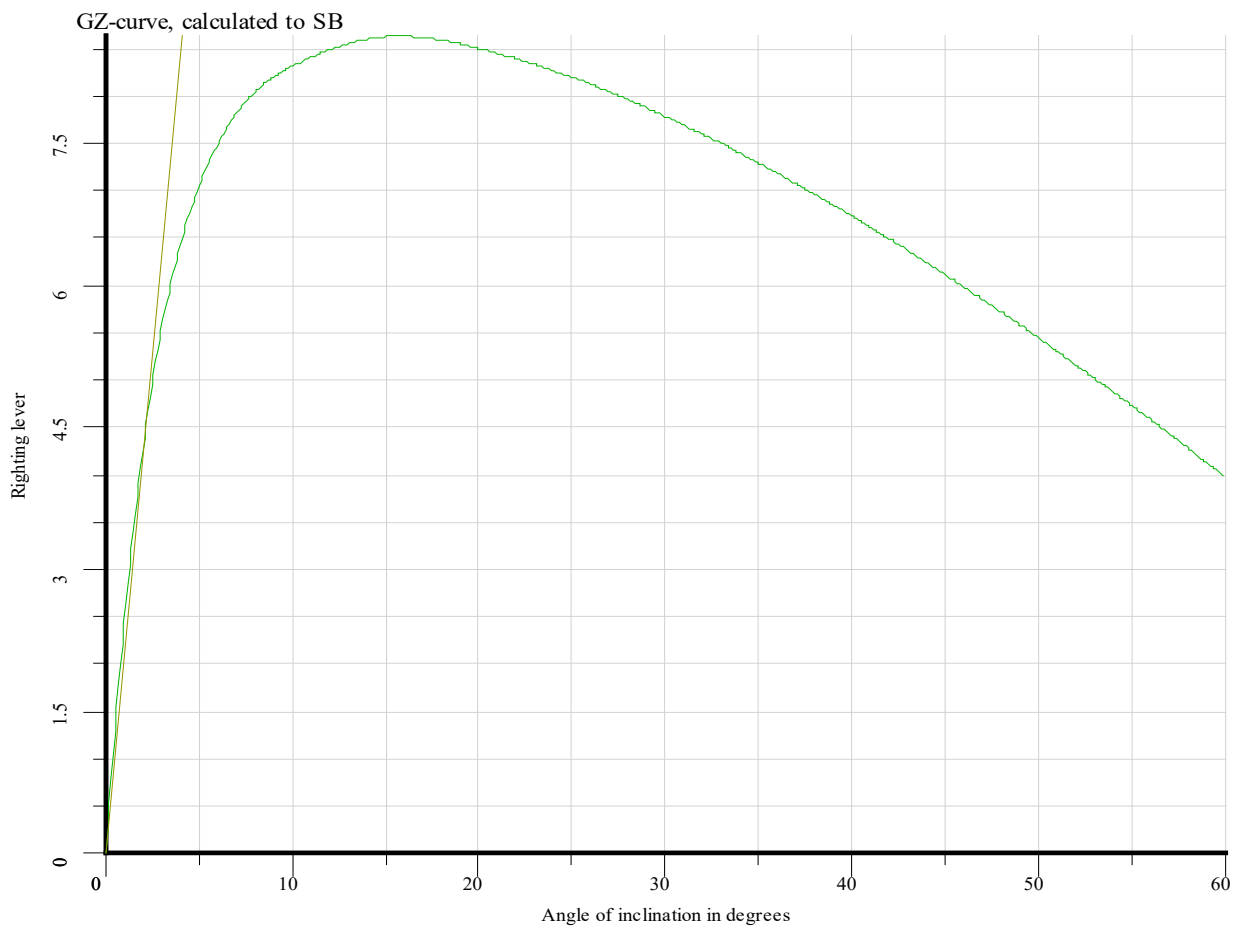
Loading condition complies with the stated criteria.



TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:05

Loading condition : Pontoon with equipment



TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:05

Loading condition : Pontoon with equipment

Draft at equilibrium at selected locations

Location	Length	Breadth	Height	Freeboard
aft PS	0.000	-12.192	0.000	-0.402
aft SB	0.000	12.192	0.000	-0.402
fore PS	31.699	-12.192	0.000	-0.402
fore SB	31.699	12.192	0.000	-0.402

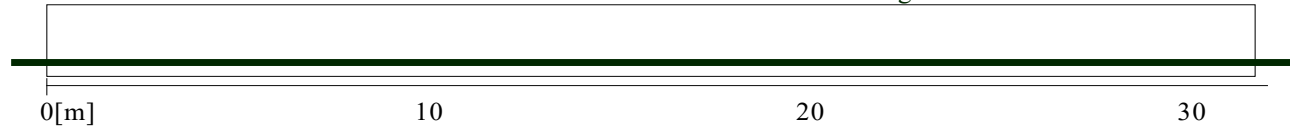
The heights in this table are from baseline

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

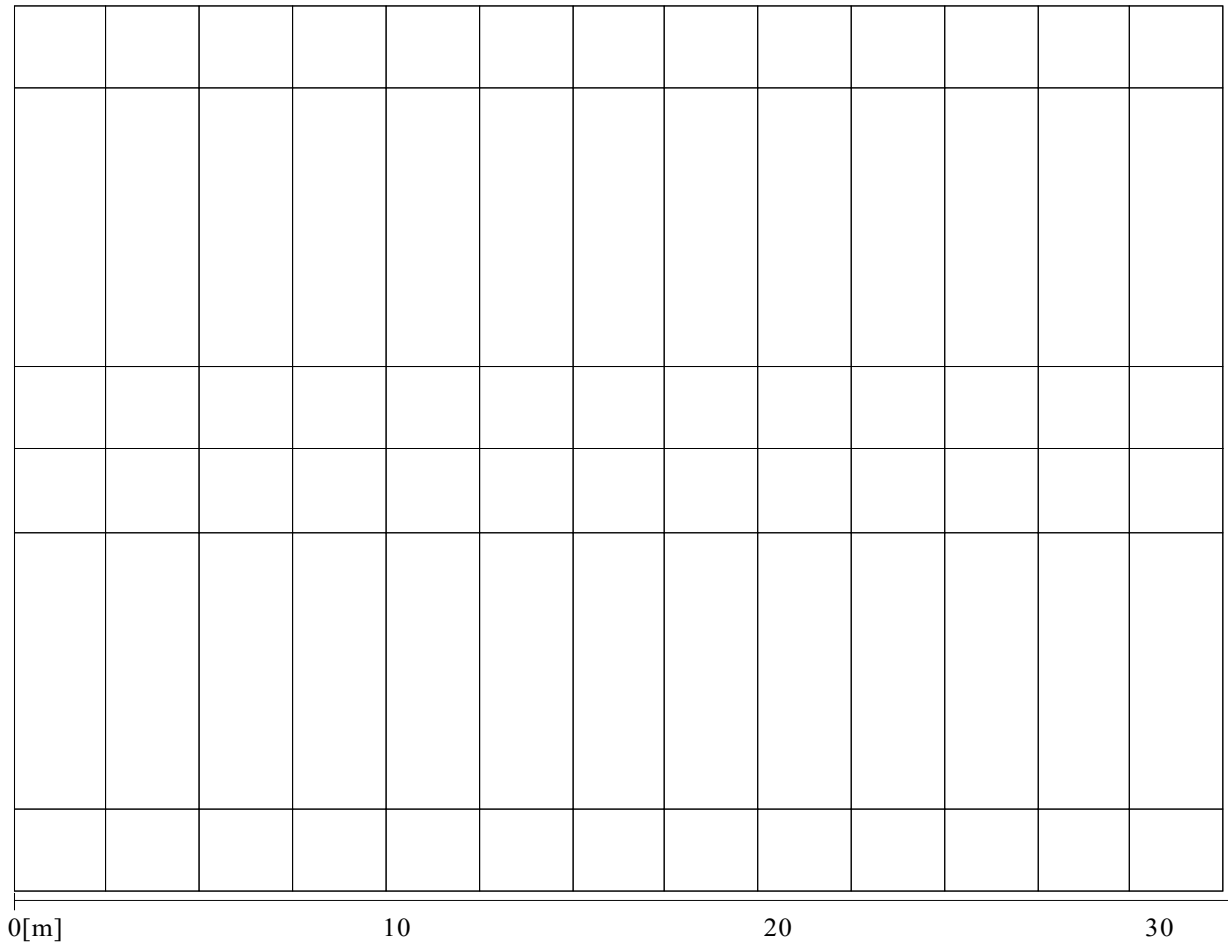
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Loading condition : Pontoon with equipment

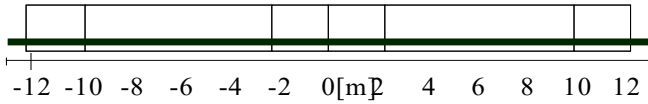
Wind contour : No deck cargo



Horizontal section at 1.500 m



Cross section at 15.850 m



TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:05

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Description	Filling %	Density ton/m ³	Weight ton	VCG m	LCG m	TCG m	FSM tonm
Light ship	-	-	304.200	1.981	15.850	0.000	-
Subtotals for group : Deck equipment railing & misc	-	-	1.000	2.500	15.850	0.000	-
SUBTOTAL	-	-	1.000	2.500	15.850	0.000	-
Subtotals for group : Spuds							
All spuds GROUNDED	-	-	0.000	0.000	0.000	0.000	-
Spud carrier 1	-	-	1.330	1.000	3.047	-12.682	-
Spud carrier 2	-	-	1.330	1.000	28.647	-12.682	-
Spud carrier 3	-	-	1.330	1.000	3.047	12.682	-
Spud carrier 4	-	-	1.330	1.000	28.647	12.682	-
SUBTOTAL	-	-	5.320	1.000	15.847	-0.000	-
Subtotals for group : Deck cargo							
== Total 1932 passengers ==	-	-	144.900	3.000	15.850	0.000	-
SUBTOTAL	-	-	144.900	3.000	15.850	0.000	-
TOTAL	-	-	455.420	2.295	15.850	-0.000	-

Hydrostatics

Volume	455.453 m ³
LCF	15.849 m
Mom. change trim	20.412 tonm/cm
Ton/cm immersion	7.725 ton/cm
Density	1.0000 ton/m ³

Drafts and trim

Drafts above base :	
Draft mean (Lpp/2)	0.590 m
Draft aft (App)	0.590 m
Draft fore (Fpp)	0.590 m
Trim	-0.000 m

Transverse stability

KM transverse	84.238 m		
VCG	2.295 m		
GM solid	81.943 m		
GG' correction	0.000 m		
G'M liquid	81.943 m	VCG'	2.295 m

The stability values are calculated for the actual trim.

TRIM AND STABILITY CALCULATION

pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:05

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Statical stability, calculated with constant LCB :

Angle degrees		Draft mld. m	Trim m	KNsinφ m	VCG'sinφ m	TCGcosφ m	G'Nsinφ m	Area mrad
60.00	PS	-7.551	0.001	-5.111	-1.987	-0.000	-3.123	6.072
50.00	PS	-4.886	0.001	-6.221	-1.758	-0.000	-4.463	5.408
40.00	PS	-3.148	0.001	-7.134	-1.475	-0.000	-5.659	4.522
35.00	PS	-2.463	0.000	-7.505	-1.316	-0.000	-6.188	4.005
30.00	PS	-1.857	-0.001	-7.810	-1.147	-0.000	-6.662	3.444
25.00	PS	-1.309	-0.000	-8.041	-0.970	-0.000	-7.071	2.844
20.00	PS	-0.804	-0.001	-8.179	-0.785	-0.000	-7.394	2.212
15.00	PS	-0.331	0.000	-8.177	-0.594	-0.000	-7.583	1.557
10.00	PS	0.121	0.000	-7.843	-0.399	-0.000	-7.445	0.899
5.00	PS	0.519	0.000	-6.168	-0.200	-0.000	-5.968	0.290
2.00	PS	0.590	0.000	-2.942	-0.080	-0.000	-2.862	0.051
0.00		0.590	-0.000	0.000	0.000	-0.000	0.000	0.000
2.00	SB	0.590	0.000	2.942	0.080	-0.000	2.862	0.051
5.00	SB	0.519	0.000	6.168	0.200	-0.000	5.968	0.290
10.00	SB	0.121	0.000	7.843	0.399	-0.000	7.445	0.899
15.00	SB	-0.331	0.000	8.177	0.594	-0.000	7.583	1.557
20.00	SB	-0.804	-0.001	8.179	0.785	-0.000	7.394	2.212
25.00	SB	-1.309	-0.000	8.041	0.970	-0.000	7.071	2.844
30.00	SB	-1.857	-0.001	7.810	1.147	-0.000	6.662	3.444
35.00	SB	-2.463	0.000	7.505	1.316	-0.000	6.188	4.005
40.00	SB	-3.148	0.001	7.134	1.475	-0.000	5.659	4.522
50.00	SB	-4.886	0.001	6.221	1.758	-0.000	4.463	5.408
60.00	SB	-7.551	0.001	5.111	1.987	-0.000	3.123	6.072

Statical angle of inclination is 0.00 degrees

Contour : with deck cargo

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:05

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Verification against the stability criteria "Residual freeboard >0.3 m"

Hydrostatics

Draft mld.	0.590 m
Trim	-0.000 m
Statical angle of inclination	0.00 degrees
Flooding angle PS	>60.00 degrees
Flooding angle SB	>60.00 degrees

Calculated to PS

	<u>Criterion</u>	<u>Value</u>
Minimum metacentric height G'M	0.150	81.943 meter
Maximum statical angle of inclination due to wind- and passenger moment	10.000	0.000 degrees
Distance between waterline and deck due to wind- and passenger moment	0.300	1.388 meter
Base of hull submerged (distance > 0)	0.000	-0.588 meter

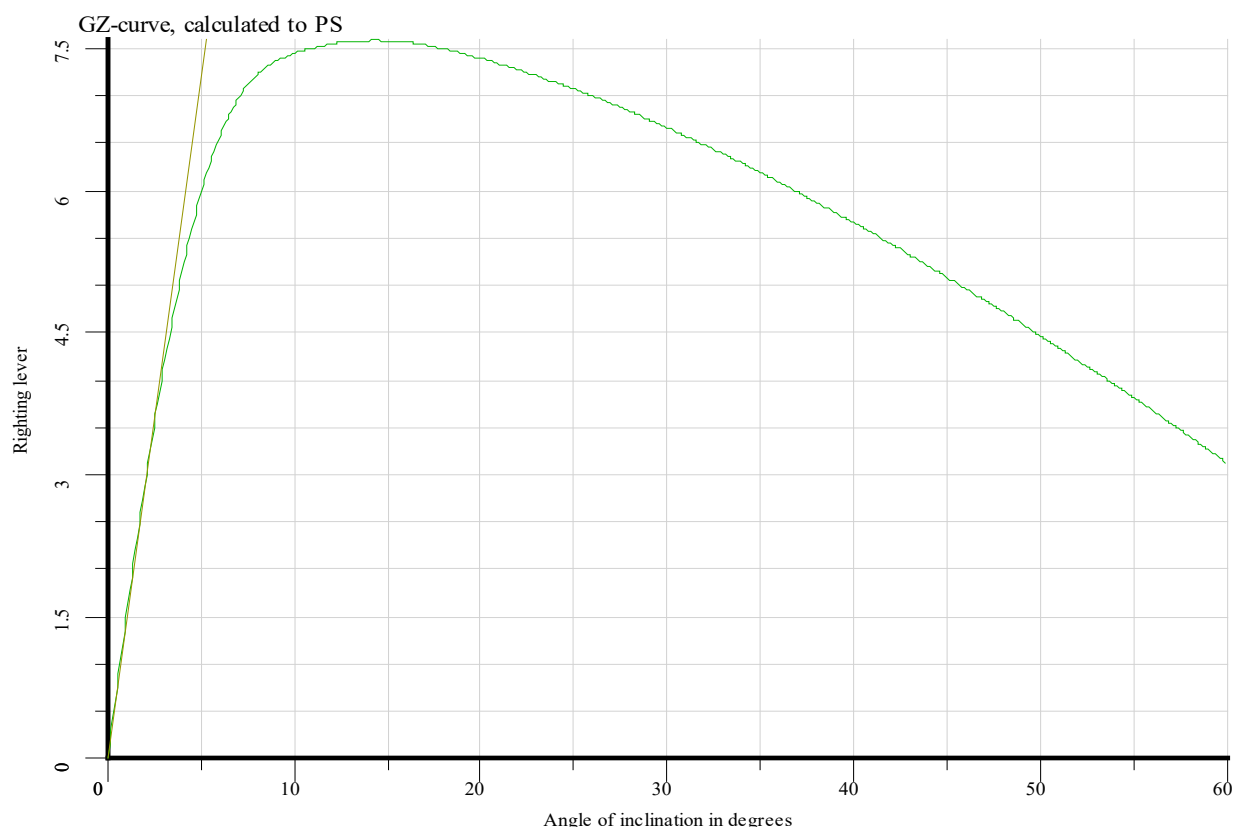
Calculated to SB

	<u>Criterion</u>	<u>Value</u>
Minimum metacentric height G'M	0.150	81.943 meter
Maximum statical angle of inclination due to wind- and passenger moment	10.000	0.000 degrees
Distance between waterline and deck due to wind- and passenger moment	0.300	1.388 meter
Base of hull submerged (distance > 0)	0.000	-0.588 meter

VCG'

Maximum allowable PS	84.087 m
Maximum allowable SB	84.087 m
Maximum allowable	84.087 m
Actual	2.295 m

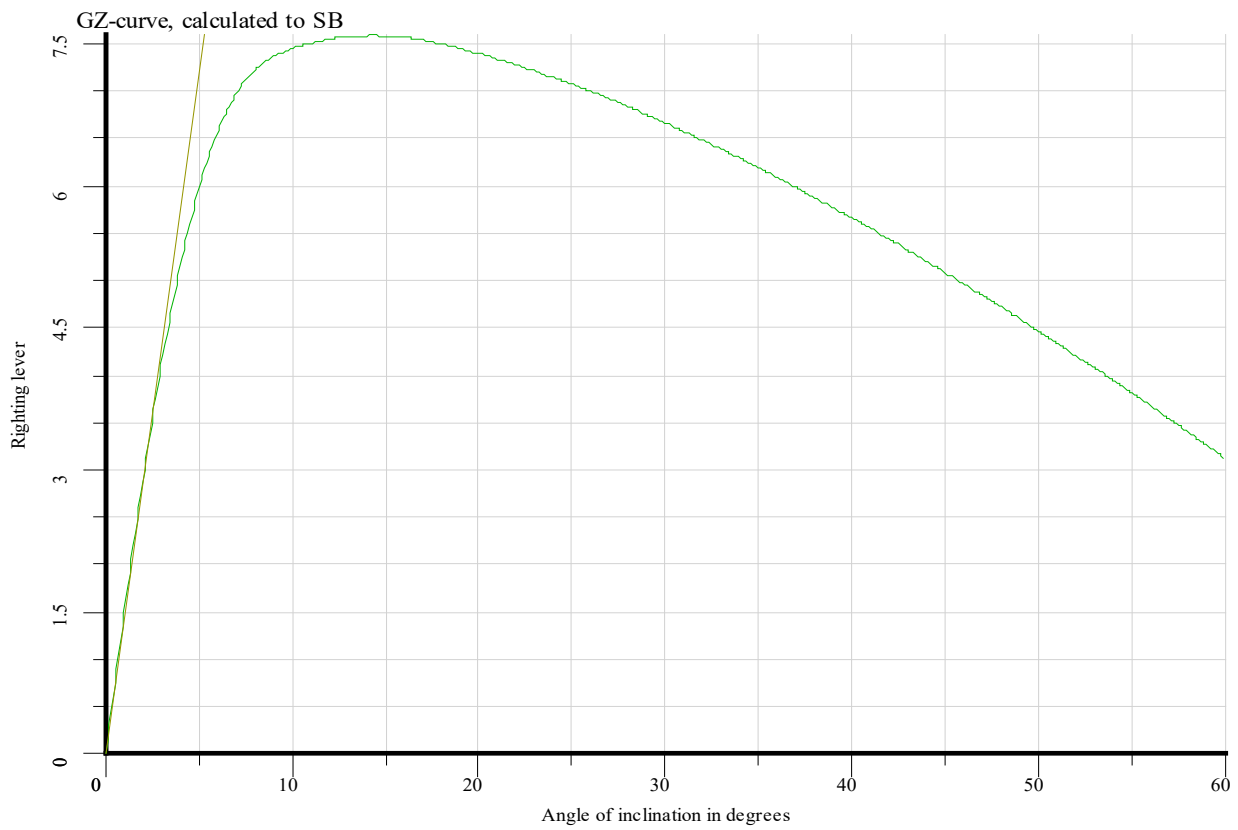
Loading condition complies with the stated criteria.



TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:05

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)



TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:05

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Draft at equilibrium at selected locations

Location	Length	Breadth	Height	Freeboard
aft PS	0.000	-12.192	0.000	-0.590
aft SB	0.000	12.192	0.000	-0.590
fore PS	31.699	-12.192	0.000	-0.590
fore SB	31.699	12.192	0.000	-0.590

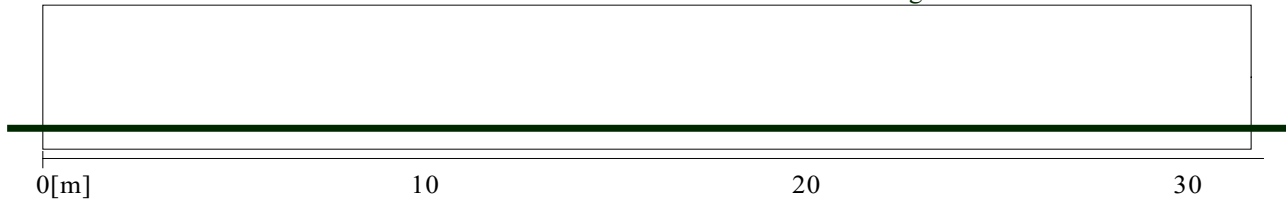
The heights in this table are from baseline

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

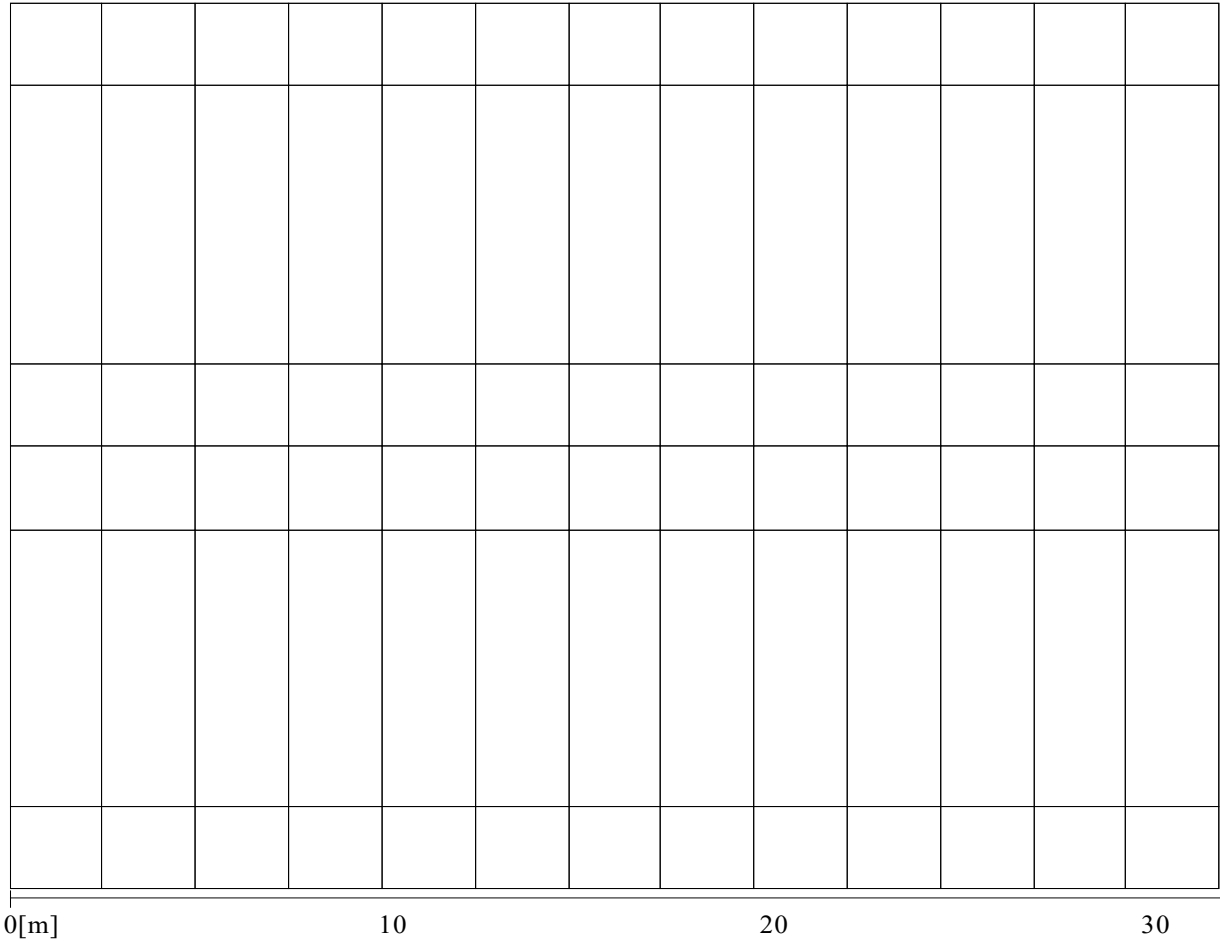
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Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

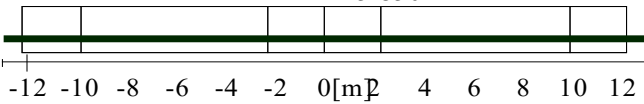
Wind contour : with deck cargo



Horizontal section at 1.500 m



Cross section at 15.850 m



TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:06

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Description	Filling %	Density ton/m ³	Weight ton	VCG m	LCG m	TCG m	FSM tonm
Light ship	-	-	304.200	1.981	15.850	0.000	-
Subtotals for group : Deck equipment railing & misc	-	-	1.000	2.500	15.850	0.000	-
SUBTOTAL	-	-	1.000	2.500	15.850	0.000	-
Subtotals for group : Spuds							
All spuds GROUNDED	-	-	0.000	0.000	0.000	0.000	-
Spud carrier 1	-	-	1.330	1.000	3.047	-12.682	-
Spud carrier 2	-	-	1.330	1.000	28.647	-12.682	-
Spud carrier 3	-	-	1.330	1.000	3.047	12.682	-
Spud carrier 4	-	-	1.330	1.000	28.647	12.682	-
SUBTOTAL	-	-	5.320	1.000	15.847	-0.000	-
Subtotals for group : Deck cargo							
== Total 1932 passengers ==	-	-	144.900	3.000	15.850	0.000	-
SUBTOTAL	-	-	144.900	3.000	15.850	0.000	-
TOTAL	-	-	455.420	2.295	15.850	-0.000	-

Hydrostatics

Volume	455.453 m ³
LCF	15.849 m
Mom. change trim	20.412 tonm/cm
Ton/cm immersion	7.725 ton/cm
Density	1.0000 ton/m ³

Drafts and trim

Drafts above base :	
Draft mean (Lpp/2)	0.590 m
Draft aft (App)	0.590 m
Draft fore (Fpp)	0.590 m
Trim	-0.000 m

Transverse stability

KM transverse	84.238 m		
VCG	2.295 m		
GM solid	81.943 m		
GG' correction	0.000 m		
G'M liquid	81.943 m	VCG'	2.295 m

The stability values are calculated for the actual trim.

TRIM AND STABILITY CALCULATION

pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:06

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Statical stability, calculated with constant LCB :

Angle degrees		Draft mld. m	Trim m	KNsinφ m	VCG'sinφ m	TCGcosφ m	G'Nsinφ m	Area mrad
60.00	PS	-7.551	0.001	-5.111	-1.987	0.646	-3.770	7.201
50.00	PS	-4.886	0.001	-6.221	-1.758	0.831	-5.294	6.408
40.00	PS	-3.148	0.001	-7.134	-1.475	0.990	-6.649	5.363
35.00	PS	-2.463	0.000	-7.505	-1.316	1.059	-7.247	4.757
30.00	PS	-1.857	-0.001	-7.810	-1.147	1.120	-7.782	4.100
25.00	PS	-1.309	-0.000	-8.041	-0.970	1.172	-8.243	3.400
20.00	PS	-0.804	-0.001	-8.179	-0.785	1.215	-8.609	2.664
15.00	PS	-0.331	0.000	-8.177	-0.594	1.249	-8.832	1.902
10.00	PS	0.121	0.000	-7.843	-0.399	1.273	-8.718	1.133
5.00	PS	0.519	0.000	-6.168	-0.200	1.288	-7.256	0.413
2.00	PS	0.590	0.000	-2.942	-0.080	1.292	-4.154	0.106
0.00		0.590	-0.000	0.000	0.000	1.293	-1.293	0.010
2.00	SB	0.590	0.000	2.942	0.080	1.292	1.570	0.016
5.00	SB	0.519	0.000	6.168	0.200	1.288	4.680	0.187
10.00	SB	0.121	0.000	7.843	0.399	1.273	6.172	0.684
15.00	SB	-0.331	0.000	8.177	0.594	1.249	6.334	1.232
20.00	SB	-0.804	-0.001	8.179	0.785	1.215	6.179	1.780
25.00	SB	-1.309	-0.000	8.041	0.970	1.172	5.899	2.308
30.00	SB	-1.857	-0.001	7.810	1.147	1.120	5.543	2.807
35.00	SB	-2.463	0.000	7.505	1.316	1.059	5.129	3.273
40.00	SB	-3.148	0.001	7.134	1.475	0.990	4.669	3.701
50.00	SB	-4.886	0.001	6.221	1.758	0.831	3.632	4.428
60.00	SB	-7.551	0.001	5.111	1.987	0.646	2.477	4.962

Statical angle of inclination is 0.92 degrees to starboard

Contour : with deck cargo

Additional heeling moment is 588.793 tonm

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:06

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Verification against the stability criteria "Residual freeboard >0.3 m"

Hydrostatics

Draft mld.	0.590 m
Trim	-0.000 m
Statical angle of inclination	0.92 degrees SB
Flooding angle PS	>60.00 degrees
Flooding angle SB	>60.00 degrees

Calculated to PS

	<u>Criterion</u>	<u>Value</u>
Minimum metacentric height G'M	0.150	81.943 meter
Maximum statical angle of inclination due to wind- and passenger moment	10.000	0.918 degrees SB
Distance between waterline and deck due to wind- and passenger moment	0.300	1.197 meter
Base of hull submerged (distance > 0)	0.000	-0.395 meter

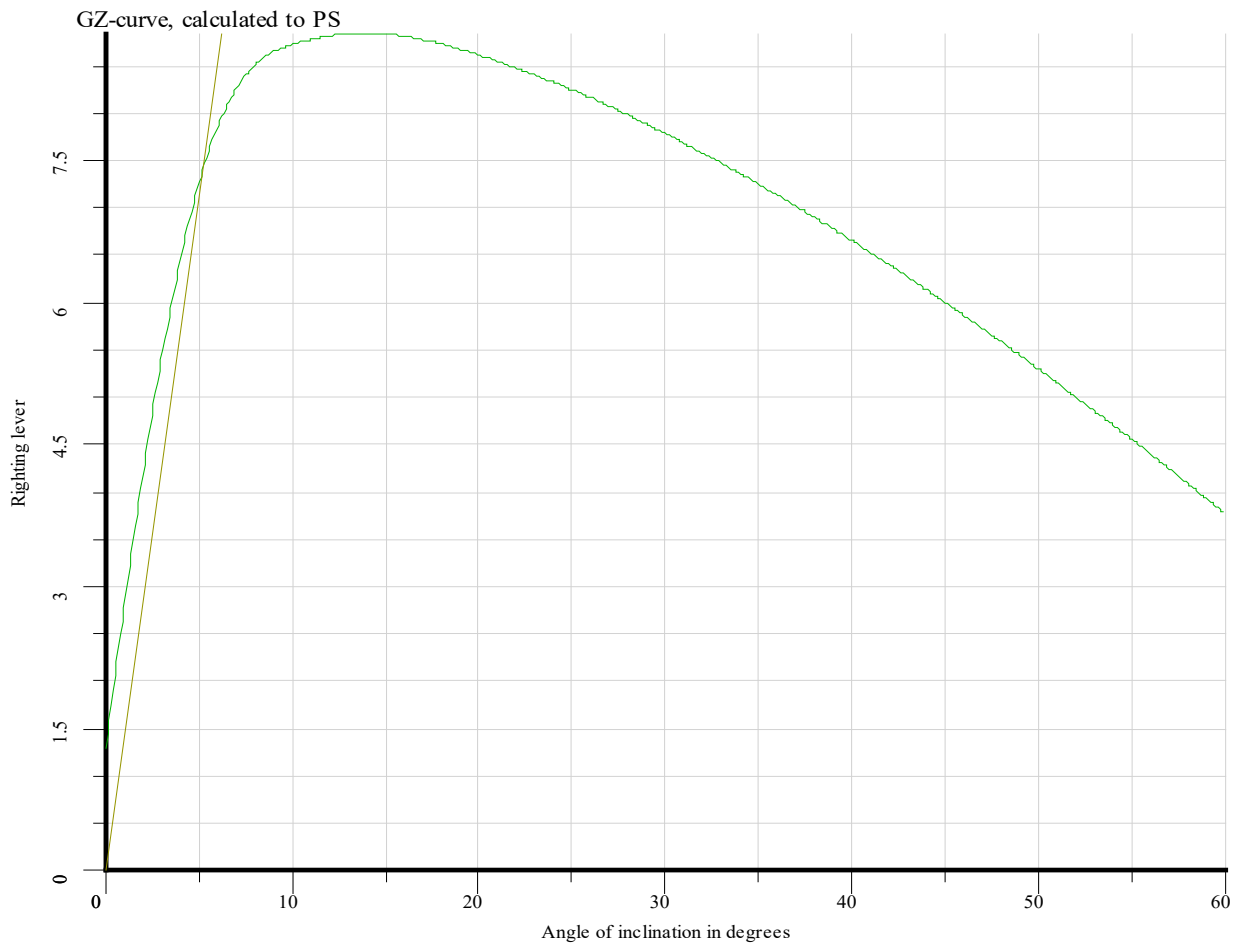
Calculated to SB

	<u>Criterion</u>	<u>Value</u>
Minimum metacentric height G'M	0.150	81.943 meter
Maximum statical angle of inclination due to wind- and passenger moment	10.000	0.918 degrees SB
Distance between waterline and deck due to wind- and passenger moment	0.300	1.194 meter
Base of hull submerged (distance > 0)	0.000	-0.392 meter

VCG'

Maximum allowable PS	54.383 m
Maximum allowable SB	53.901 m
Maximum allowable	53.901 m
Actual	2.295 m

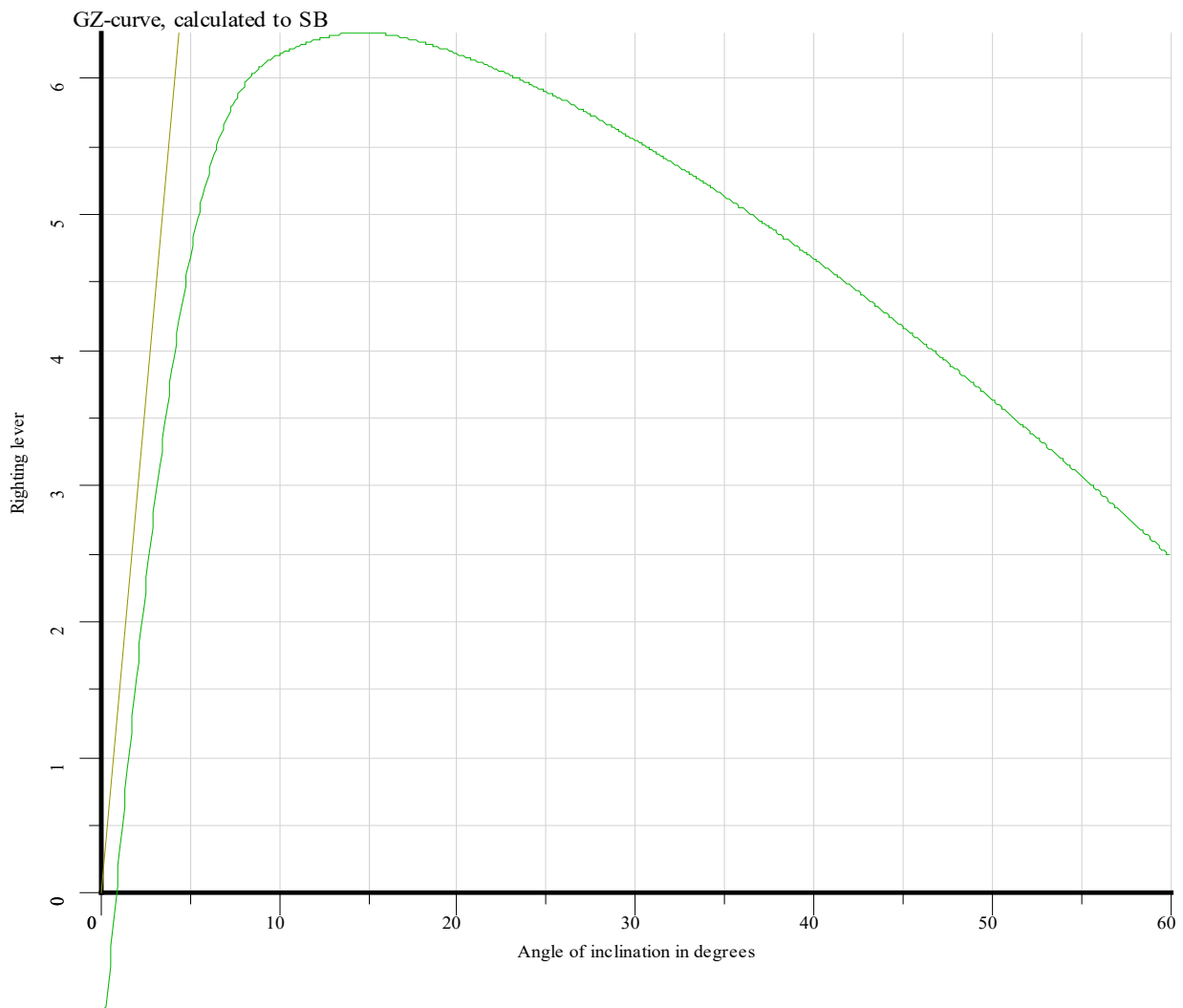
Loading condition complies with the stated criteria.



TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:06

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)



TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:08:06

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Draft at equilibrium at selected locations

Location	Length	Breadth	Height	Freeboard
aft PS	0.000	-12.192	0.000	-0.394
aft SB	0.000	12.192	0.000	-0.784
fore PS	31.699	-12.192	0.000	-0.394
fore SB	31.699	12.192	0.000	-0.784

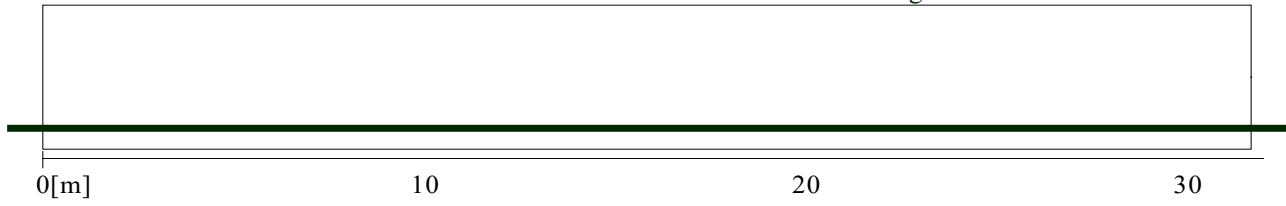
The heights in this table are from baseline

TRIM AND STABILITY CALCULATION
pontoon 31.69x24.38x1.98m

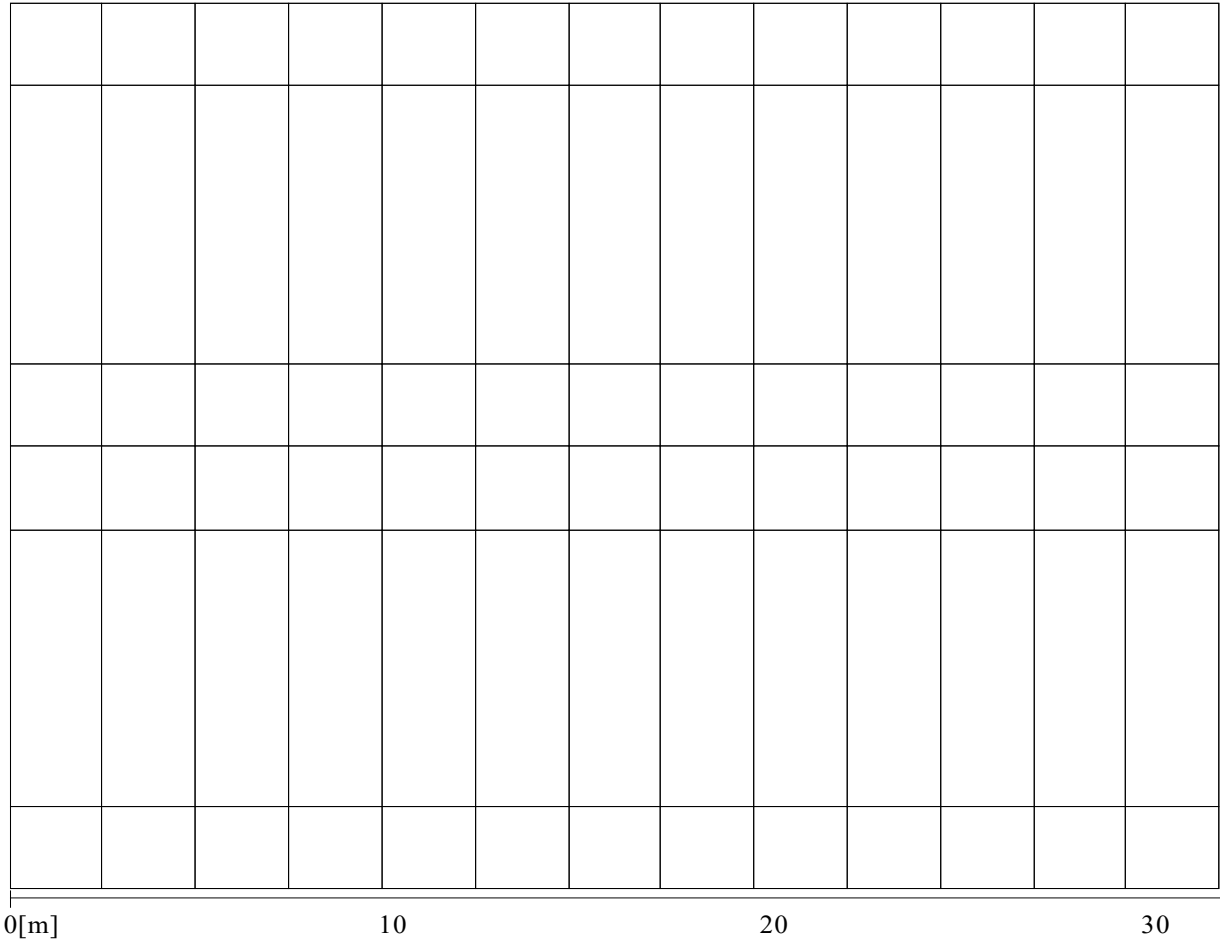
01 Mar 2024 18:08:06

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

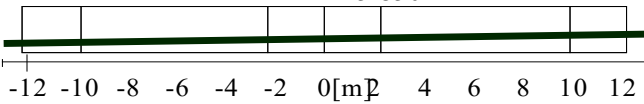
Wind contour : with deck cargo



Horizontal section at 1.500 m



Cross section at 15.850 m



5. DAMAGE STABILITY CALCULATIONS

FLOODABILITY AND DAMAGE STABILITY pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Openings calculated to PS

Type of opening/point	Name	Distance WL
Marginline	aft PS	-1.286 m
Marginline	aft SB	-1.286 m
Marginline	fore PS	-0.312 m
Marginline	fore SB	-0.312 m

Openings calculated to SB

Type of opening/point	Name	Distance WL
Marginline	aft PS	-1.286 m
Marginline	aft SB	-1.286 m
Marginline	fore PS	-0.312 m
Marginline	fore SB	-0.312 m

Damaged compartments and intact compartment weights (at 0.00°) :

Name	Wintact ton	SWintact ton/m ³	Wdamag. ton	SWdam. ton/m ³
New compartment (198) A	0.000	1.0000	20.719	1.0000
New compartment (198) A	0.000	1.0000	6.216	1.0000
New compartment (198) A	0.000	1.0000	6.216	1.0000
New compartment (198) A A	0.000	1.0000	20.719	1.0000
New compartment (198) A A	0.000	1.0000	19.388	1.0000
New compartment (198) A A	0.000	1.0000	5.816	1.0000
New compartment (198) A A	0.000	1.0000	5.816	1.0000
New compartment (198) A A A	0.000	1.0000	19.388	1.0000
New compartment (199) A	0.000	1.0000	22.034	1.0000
New compartment (199) A	0.000	1.0000	6.610	1.0000
New compartment (199) A	0.000	1.0000	6.610	1.0000
New compartment (199) A A	0.000	1.0000	22.034	1.0000

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(φ) m	Area mrad
60.00 PS	632.297	-2.666	-22.787	-2.646	5.340
50.00 PS	632.297	-1.526	-15.679	-3.851	4.771
40.00 PS	632.215	-0.782	-11.035	-4.932	4.003
35.00 PS	632.125	-0.490	-9.202	-5.414	3.551
30.00 PS	632.291	-0.229	-7.596	-5.847	3.059
25.00 PS	632.111	0.004	-6.128	-6.225	2.532

FLOODABILITY AND DAMAGE STABILITY

pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Angle degrees		Displacement ton	Draft m	Trim m	GNsin(ϕ) m	Area mrad
20.00	PS	632.291	0.222	-4.788	-6.531	1.975
15.00	PS	632.293	0.424	-3.525	-6.726	1.395
10.00	PS	632.759	0.617	-2.337	-6.667	0.809
5.00	PS	626.651	0.769	-1.254	-5.411	0.259
2.00	PS	617.078	0.799	-0.976	-2.515	0.044
0.00		616.987	0.799	-0.974	0.000	0.000
2.00	SB	617.078	0.799	-0.976	2.515	0.044
5.00	SB	626.653	0.769	-1.254	5.411	0.259
10.00	SB	632.760	0.617	-2.337	6.667	0.809
15.00	SB	632.292	0.424	-3.525	6.726	1.395
20.00	SB	632.292	0.222	-4.788	6.531	1.975
25.00	SB	632.291	0.006	-6.135	6.225	2.532
30.00	SB	632.023	-0.231	-7.582	5.848	3.059
35.00	SB	632.294	-0.488	-9.212	5.413	3.551
40.00	SB	632.291	-0.781	-11.039	4.932	4.003
50.00	SB	632.317	-1.525	-15.681	3.851	4.771
60.00	SB	632.435	-2.662	-22.804	2.646	5.340

Statical angle of inclination is 0.00 degrees

Wind contour with deck cargo

Verification against the stability criteria "Residual freeboard >0.1 m"

Criteria calculated to PS

Distance between waterline and deck due to wind- and passenger moment

<u>Criterion</u>	<u>Value</u>	
0.1000	0.6919	meter

Criteria calculated to SB

Distance between waterline and deck due to wind- and passenger moment

<u>Criterion</u>	<u>Value</u>	
0.1000	0.6919	meter

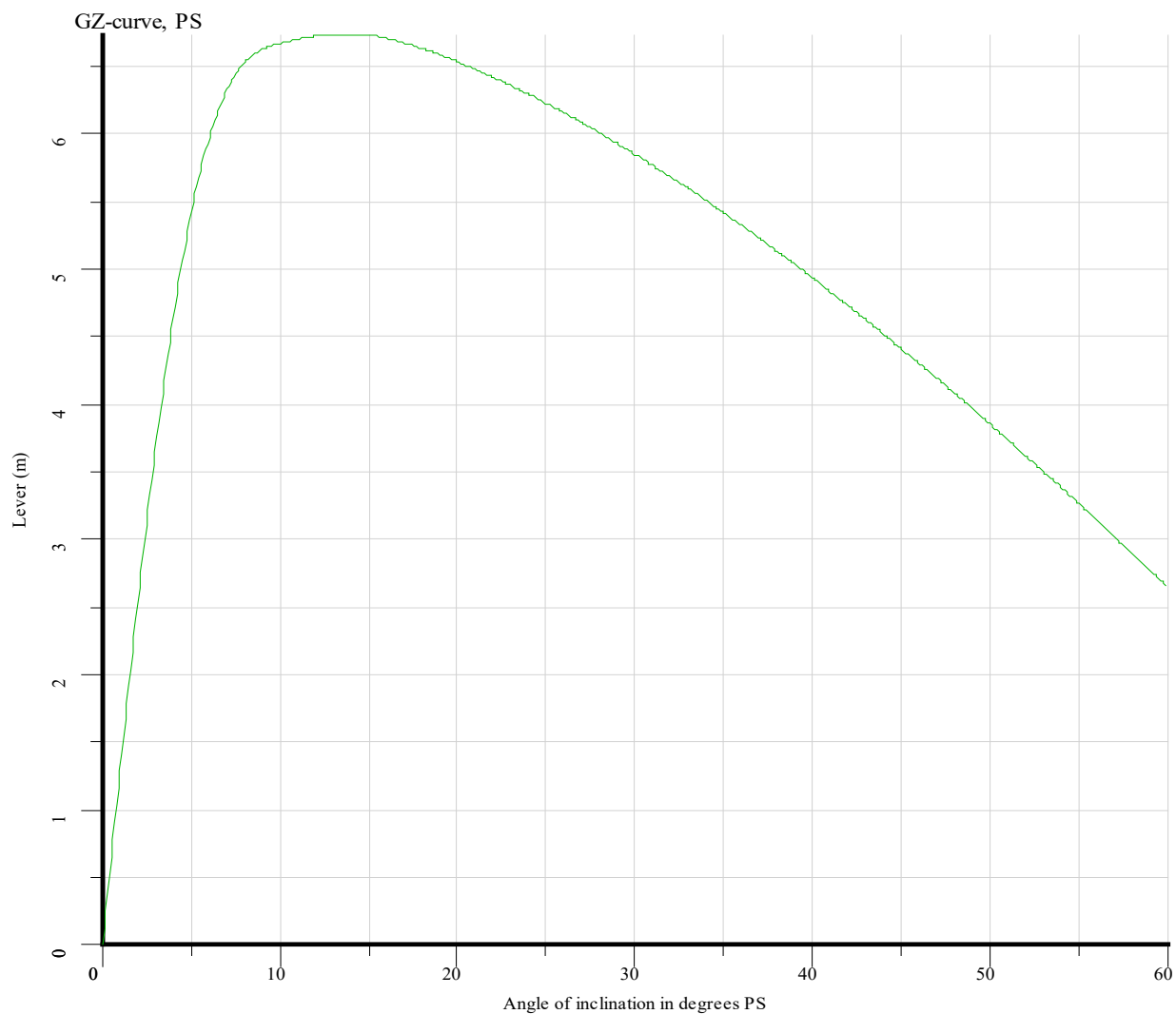
This damage case complies with the stated criteria

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

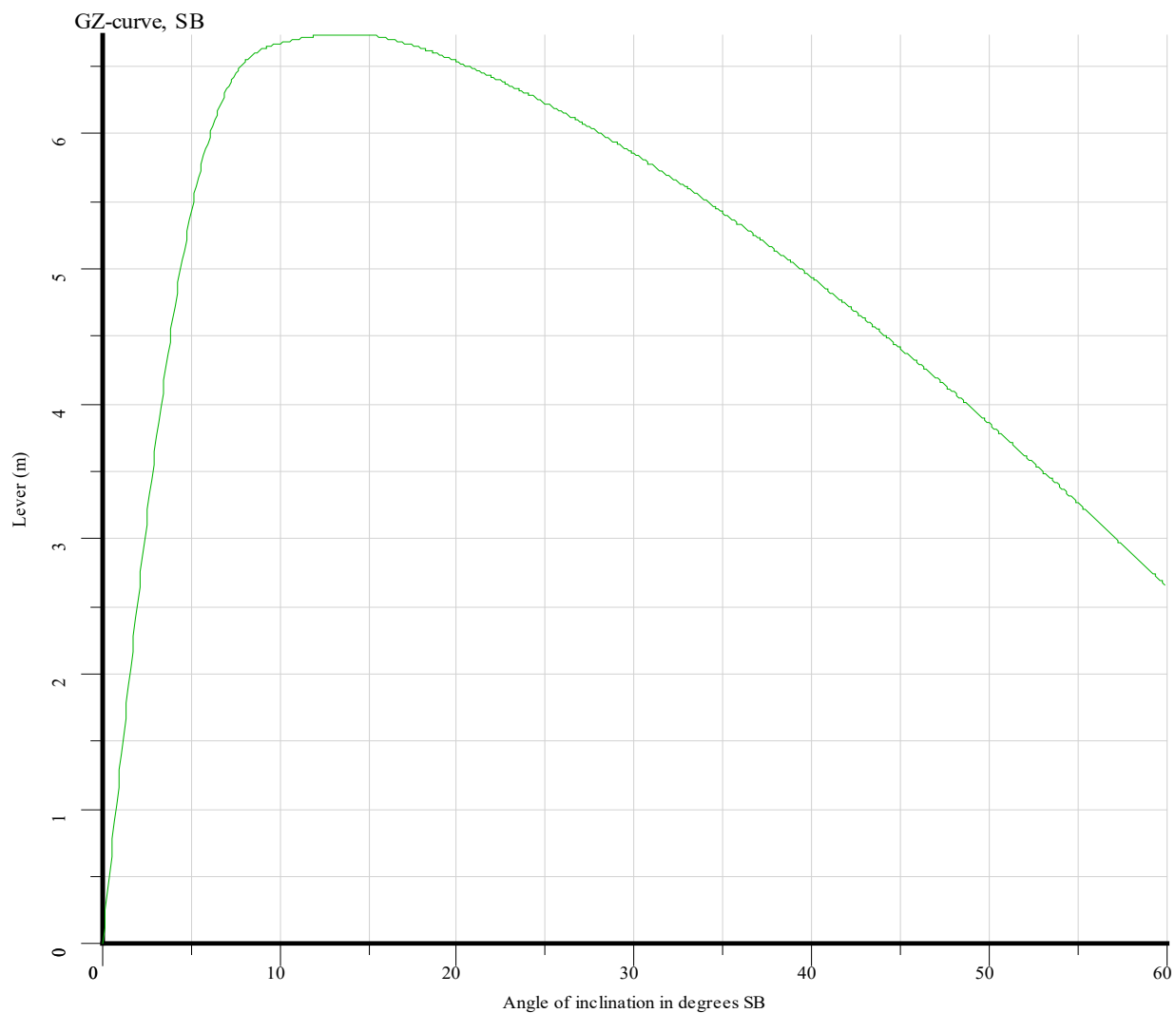


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



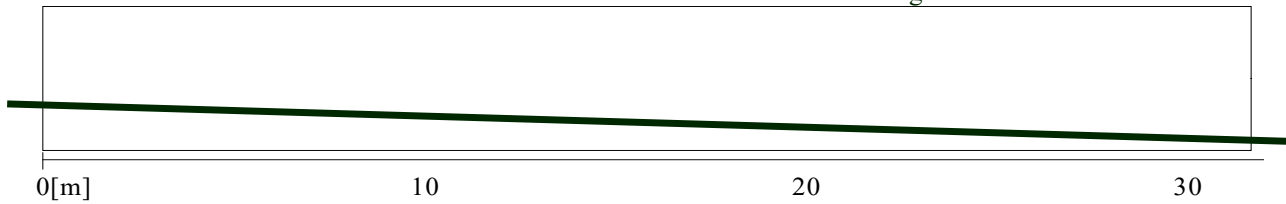
FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

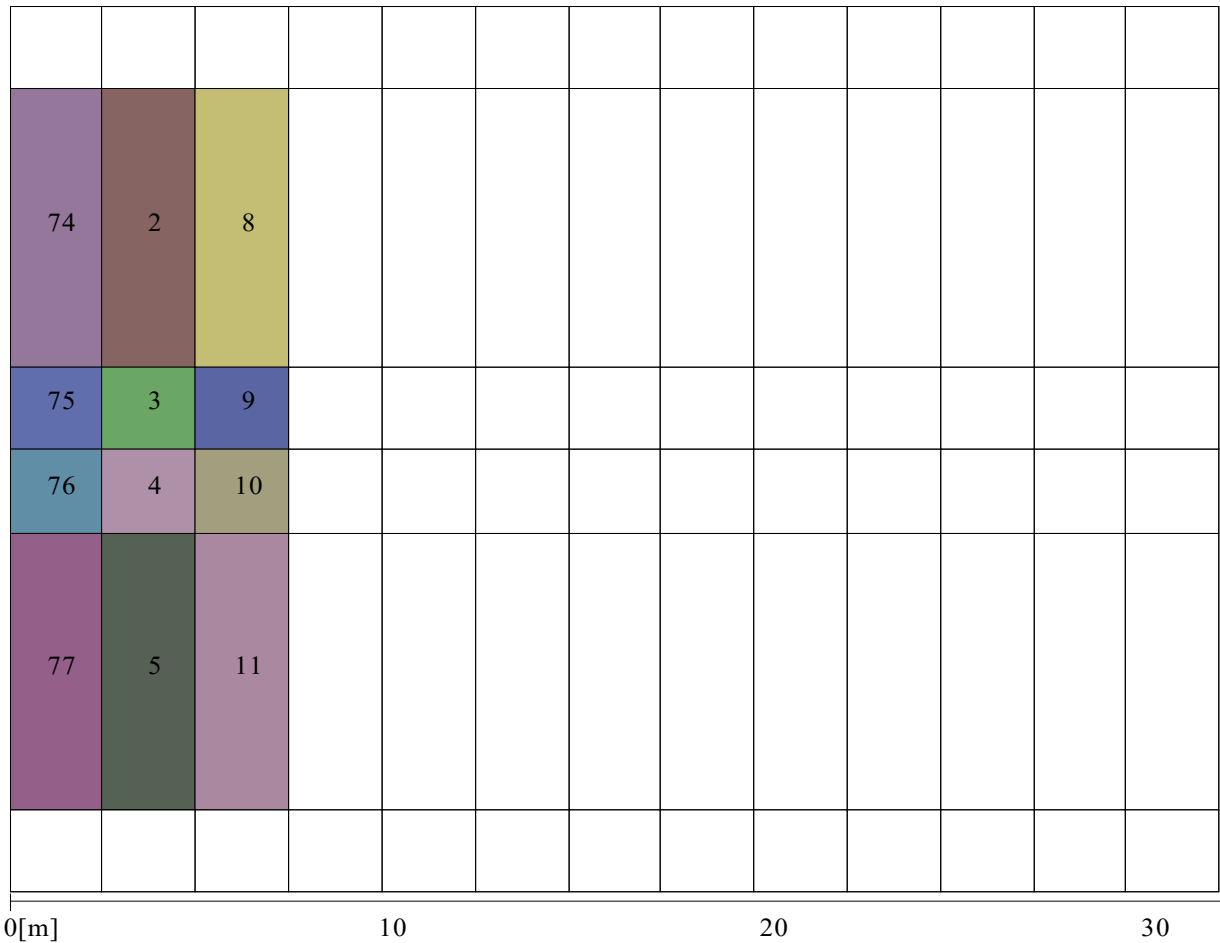
Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Wind contour : with deck cargo



Horizontal section at 1.500 m

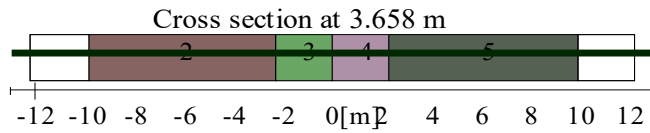


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case AFT SB

Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Openings calculated to PS

Type of opening/point	Name	Distance WL
Marginline	aft SB	-1.011 m
Marginline	aft PS	-0.700 m
Marginline	fore SB	-0.640 m
Marginline	fore PS	-0.329 m

Openings calculated to SB

Type of opening/point	Name	Distance WL
Marginline	aft SB	-1.011 m
Marginline	aft PS	-0.700 m
Marginline	fore SB	-0.640 m
Marginline	fore PS	-0.329 m

Damaged compartments and intact compartment weights (at 0.73° SB) :

Name	Wintact ton	SWintact ton/m ³	Wdamag. ton	SWdam. ton/m ³
New compartment (198) A A	0.000	1.0000	15.718	1.0000
New compartment (198) A A A	0.000	1.0000	5.043	1.0000
New compartment (198) A A A	0.000	1.0000	15.214	1.0000
ew compartment (198) A A AA	0.000	1.0000	4.889	1.0000
New compartment (199) A A	0.000	1.0000	16.209	1.0000
New compartment (199) A A A	0.000	1.0000	5.198	1.0000

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(φ) m	Area mrad
60.00 PS	455.420	-7.551	0.001	-3.123	6.112
50.00 PS	455.420	-4.886	0.001	-4.463	5.448
40.00 PS	455.412	-3.148	0.001	-5.659	4.563
35.00 PS	455.400	-2.463	0.001	-6.188	4.045
30.00 PS	455.414	-1.857	0.001	-6.662	3.484
25.00 PS	455.412	-1.309	0.000	-7.071	2.884
20.00 PS	455.421	-0.805	0.000	-7.395	2.252
15.00 PS	455.407	-0.331	0.001	-7.583	1.597
10.00 PS	455.418	0.121	0.000	-7.445	0.938
5.00 PS	460.064	0.527	-0.037	-6.036	0.330
2.00 PS	486.228	0.629	-0.185	-3.309	0.079
0.00	509.338	0.659	-0.324	-0.857	0.005

FLOODABILITY AND DAMAGE STABILITY

pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	AFT SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(φ) m	Area mrad
0.73 SB	517.800	0.670	-0.374	0.000	0.000
2.00 SB	532.454	0.689	-0.462	1.597	0.019
5.00 SB	567.725	0.689	-0.823	4.492	0.184
10.00 SB	587.902	0.493	-1.724	5.913	0.661
15.00 SB	591.211	0.249	-2.676	6.050	1.185
20.00 SB	591.629	-0.014	-3.645	5.900	1.708
25.00 SB	591.652	-0.297	-4.670	5.629	2.212
30.00 SB	591.652	-0.603	-5.782	5.285	2.689
35.00 SB	591.652	-0.942	-7.012	4.885	3.133
40.00 SB	591.680	-1.325	-8.405	4.440	3.540
50.00 SB	591.651	-2.298	-11.935	3.441	4.230
60.00 SB	591.728	-3.787	-17.360	2.328	4.734

Statical angle of inclination is 0.73 degrees to starboard

Wind contour with deck cargo

Verification against the stability criteria "Residual freeboard >0.1 m"

Criteria calculated to PS

Distance between waterline and deck due to wind- and passenger moment	<u>Criterion</u> 0.1000	<u>Value</u> 0.9712	meter
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Criteria calculated to SB

Distance between waterline and deck due to wind- and passenger moment	<u>Criterion</u> 0.1000	<u>Value</u> 0.9663	meter
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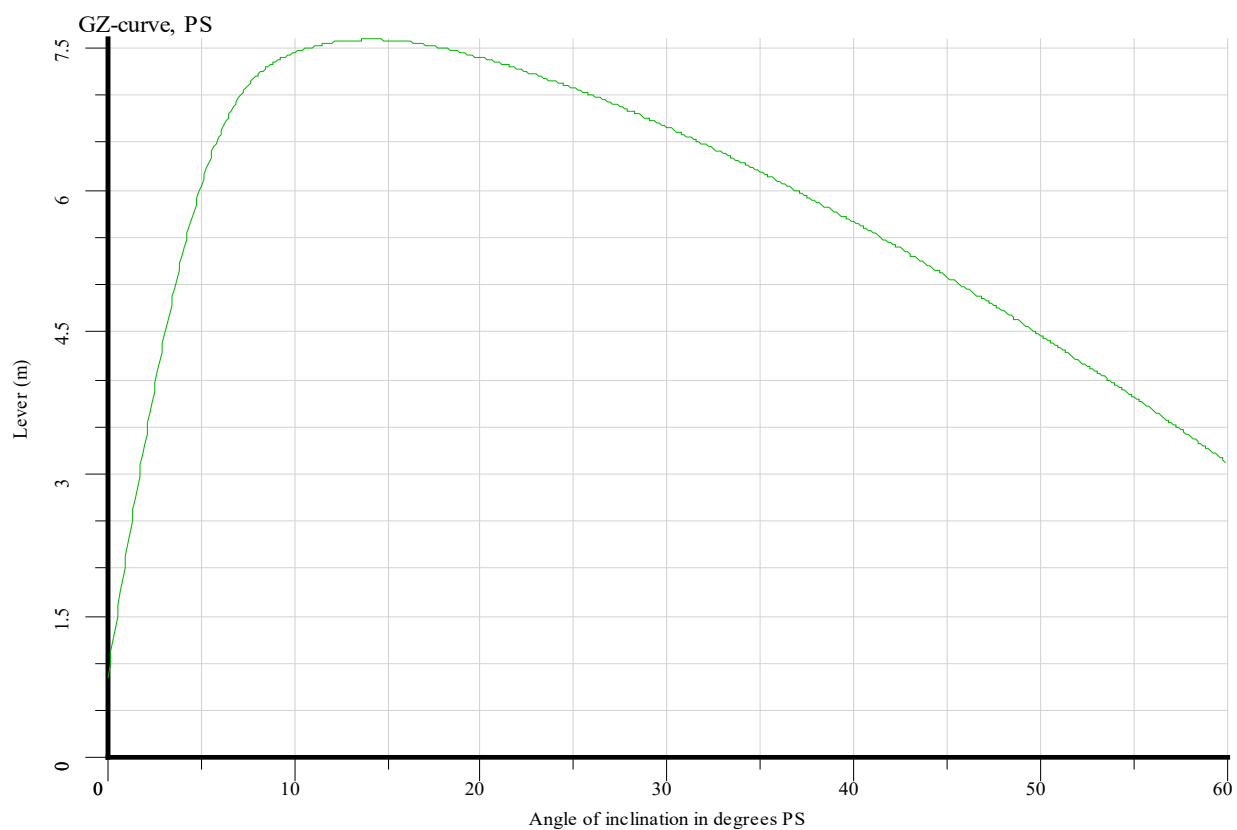
This damage case complies with the stated criteria

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	AFT SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

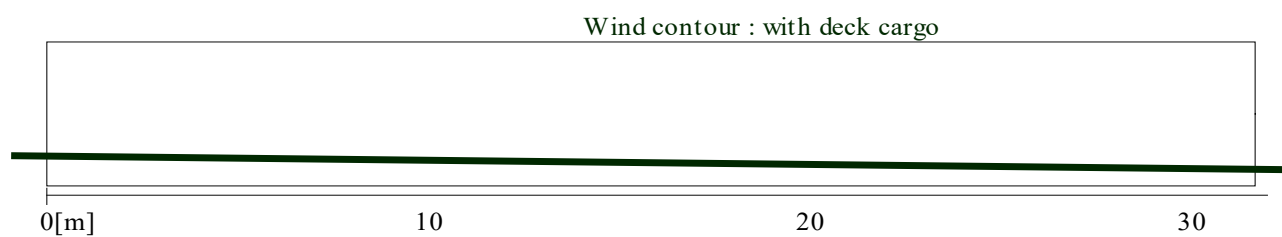
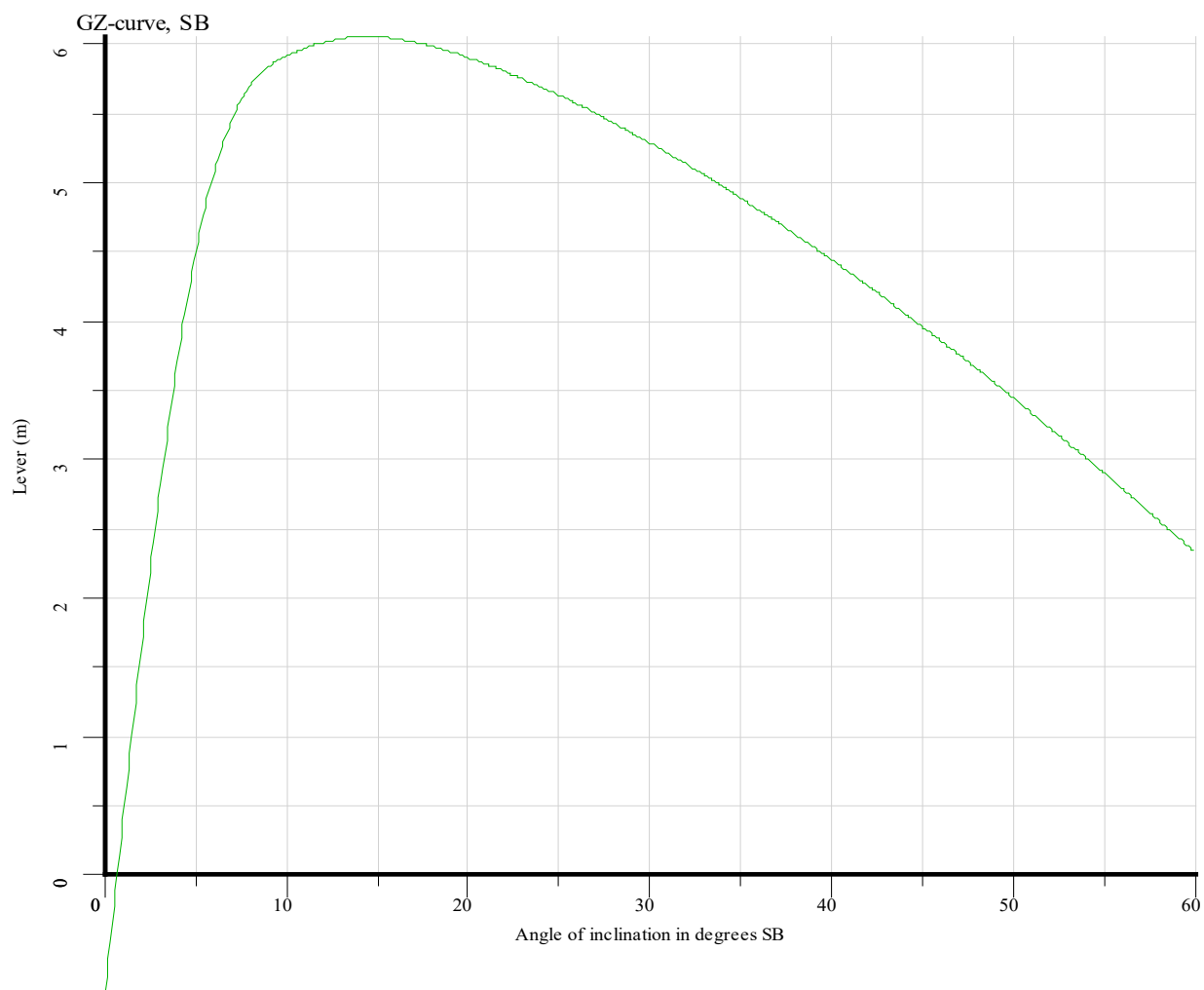


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	AFT SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



pontoon 31.69x24.38x1.98m

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

AFT SB

100%

455.420 ton

2.295 m

15.850 m

-0.000 m

[illegible]

10

20

30

A number line from -12 to 12. A green bar is drawn from -4 to 6, with the number 5 written inside. A red bar is drawn from 6 to 10, with the number 6 written inside.

-12 -10 -8 -6 -4 -2 0[m \mathbb{P}] 4 6 8 10 12

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case FORE Center
Stage of flooding 100%
Intact displacement 455.420 ton
Intact VCG 2.295 m
Intact LCG 15.850 m
Intact TCG -0.000 m

Openings calculated to PS

Type of opening/point	Name	Distance WL
Marginline	fore PS	-1.286 m
Marginline	fore SB	-1.286 m
Marginline	aft PS	-0.311 m
Marginline	aft SB	-0.311 m

Openings calculated to SB

Type of opening/point	Name	Distance WL
Marginline	fore PS	-1.286 m
Marginline	fore SB	-1.286 m
Marginline	aft PS	-0.311 m
Marginline	aft SB	-0.311 m

Damaged compartments and intact compartment weights (at 0.00°) :

Name	Wintact ton	SWintact ton/m ³	Wdamag. ton	SWdam. ton/m ³
partment (198) A A A AAAAAAD	0.000	1.0000	19.389	1.0000
partment (198) A A A AAAAAAC	0.000	1.0000	5.817	1.0000
partment (198) A A A AAAAAAB	0.000	1.0000	5.817	1.0000
artment (198) A A A AAAAAABA	0.000	1.0000	19.389	1.0000
artment (198) A A A AAAAAAD	0.000	1.0000	20.721	1.0000
artment (198) A A A AAAAAAC	0.000	1.0000	6.216	1.0000
artment (198) A A A AAAAAAB	0.000	1.0000	6.216	1.0000
rtment (198) A A A AAAAAABA	0.000	1.0000	20.721	1.0000
rtment (198) A A A AAAAAAC	0.000	1.0000	22.035	1.0000
rtment (198) A A A AAAAAAB	0.000	1.0000	6.611	1.0000
rtment (198) A A A AAAAAAA	0.000	1.0000	6.611	1.0000
tment (198) A A A AAAAAAA	0.000	1.0000	22.035	1.0000

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(φ) m	Area mrad
60.00 PS	632.311	-2.672	22.817	-2.645	5.339
50.00 PS	632.326	-1.530	15.681	-3.851	4.771
40.00 PS	632.304	-0.784	11.041	-4.932	4.002
35.00 PS	632.327	-0.490	9.215	-5.413	3.551
30.00 PS	632.305	-0.231	7.597	-5.847	3.059
25.00 PS	632.306	0.004	6.136	-6.225	2.532

FLOODABILITY AND DAMAGE STABILITY

pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case FORE Center
 Stage of flooding 100%
 Intact displacement 455.420 ton
 Intact VCG 2.295 m
 Intact LCG 15.850 m
 Intact TCG -0.000 m

Angle degrees		Displacement ton	Draft m	Trim m	GNsin(ϕ) m	Area mrad
20.00	PS	632.306	0.220	4.789	-6.531	1.975
15.00	PS	632.307	0.423	3.526	-6.726	1.395
10.00	PS	632.772	0.616	2.337	-6.667	0.809
5.00	PS	626.664	0.769	1.254	-5.410	0.259
2.00	PS	617.087	0.798	0.977	-2.515	0.044
0.00		616.997	0.799	0.974	0.000	0.000
2.00	SB	617.087	0.798	0.977	2.515	0.044
5.00	SB	626.665	0.769	1.254	5.410	0.259
10.00	SB	632.770	0.616	2.337	6.667	0.809
15.00	SB	632.308	0.423	3.526	6.726	1.395
20.00	SB	632.306	0.220	4.789	6.531	1.975
25.00	SB	632.292	0.004	6.142	6.223	2.532
30.00	SB	632.305	-0.231	7.597	5.847	3.059
35.00	SB	632.325	-0.490	9.214	5.413	3.551
40.00	SB	632.304	-0.784	11.041	4.932	4.002
50.00	SB	632.311	-1.530	15.682	3.850	4.771
60.00	SB	632.317	-2.672	22.792	2.646	5.339

Statical angle of inclination is 0.00 degrees

Wind contour with deck cargo

Verification against the stability criteria "Residual freeboard >0.1 m"

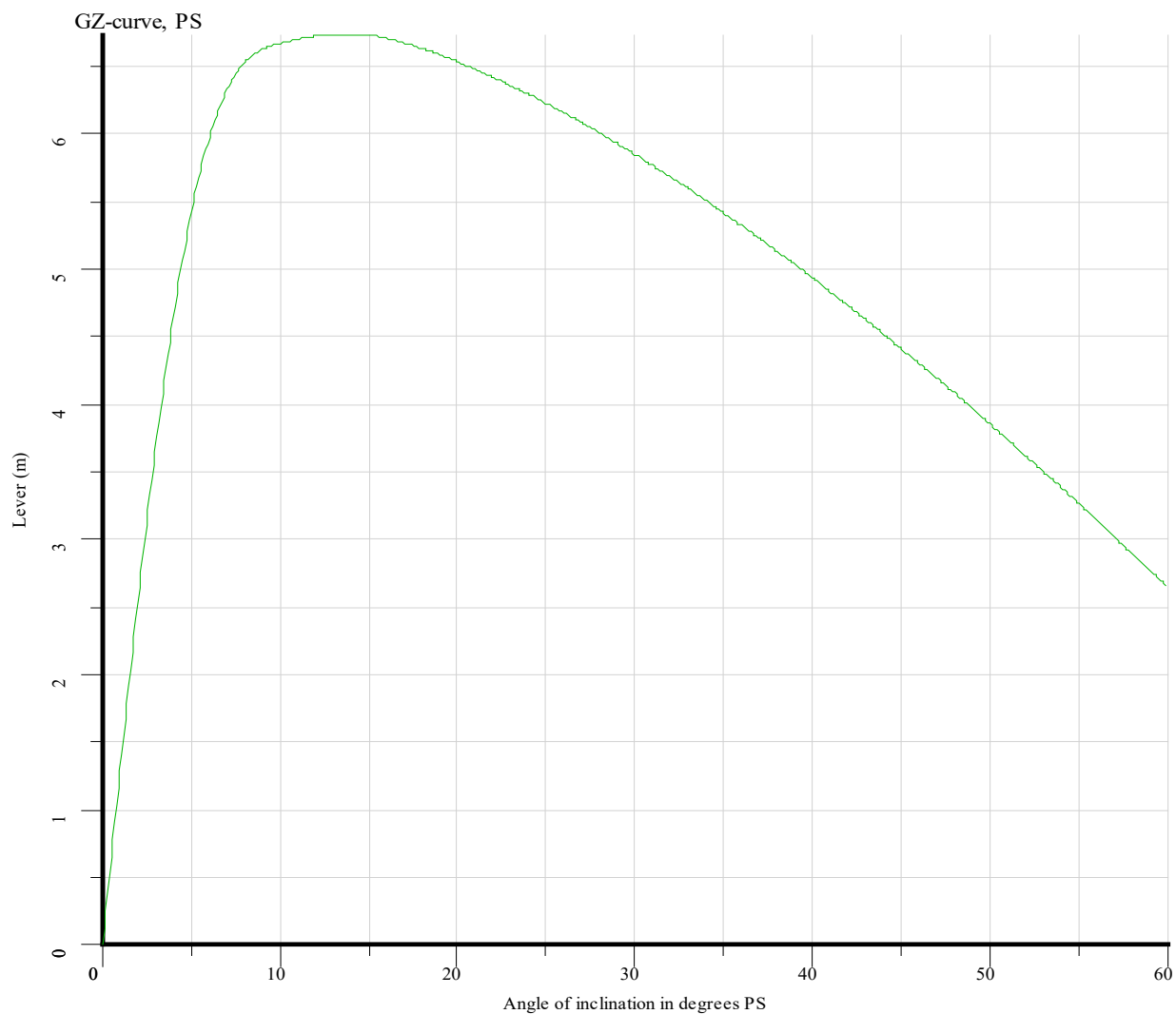
<u>Criteria calculated to PS</u>		<u>Criterion</u>	<u>Value</u>	
Distance between waterline and deck due to wind- and passenger moment		0.1000	0.6918	meter
<u>Criteria calculated to SB</u>		<u>Criterion</u>	<u>Value</u>	
Distance between waterline and deck due to wind- and passenger moment		0.1000	0.6918	meter
This damage case complies with the stated criteria				

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	FORE Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

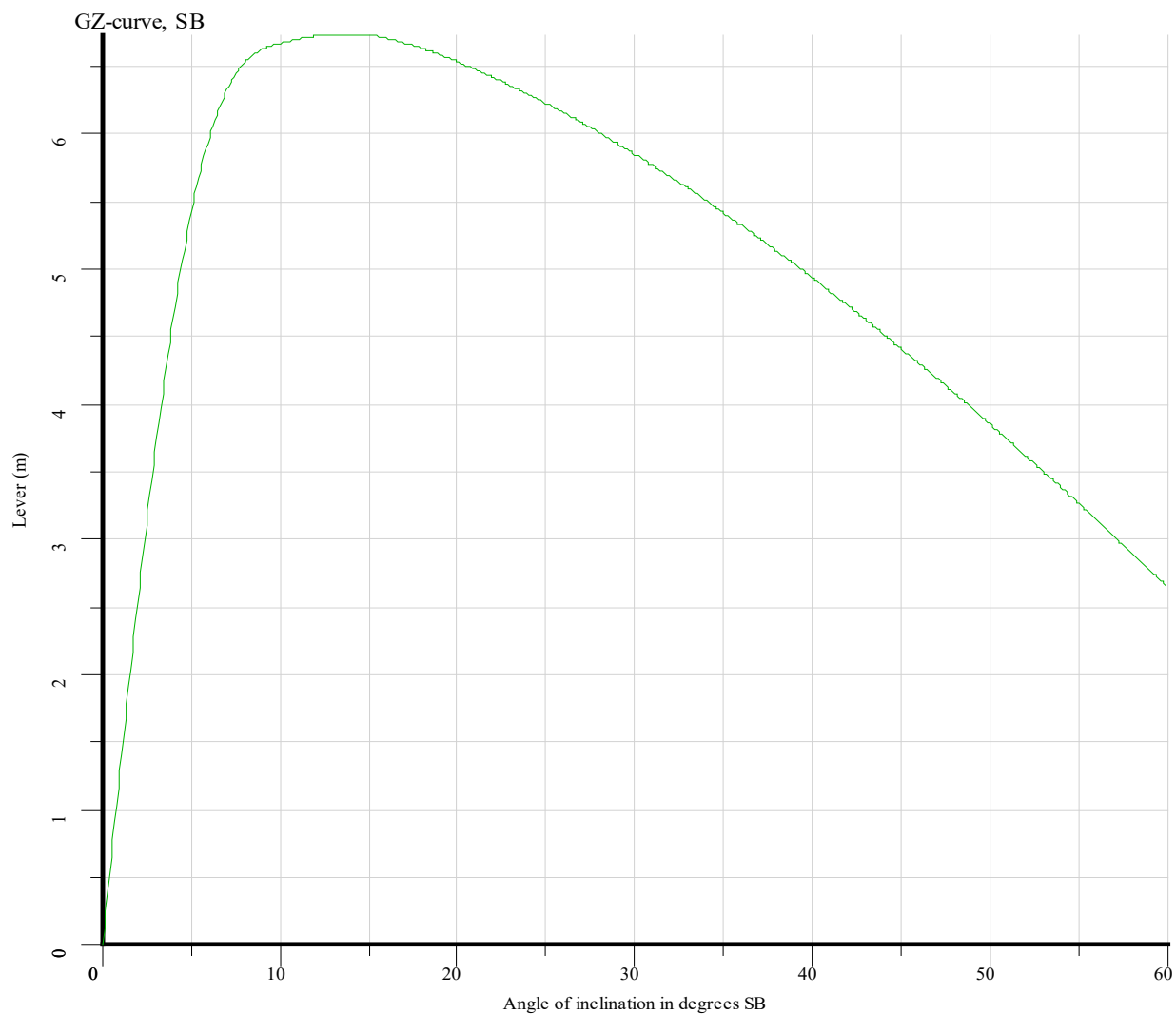


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	FORE Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



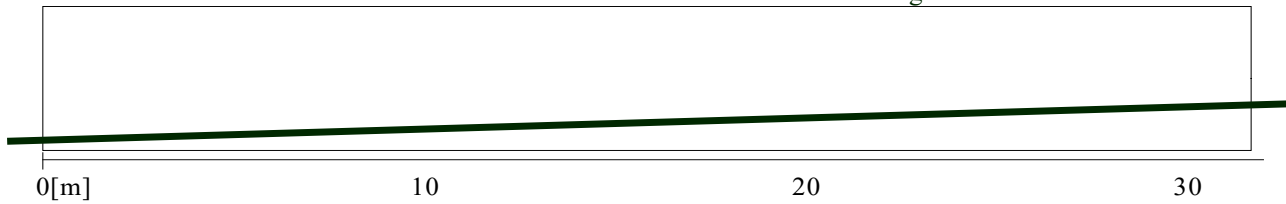
FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

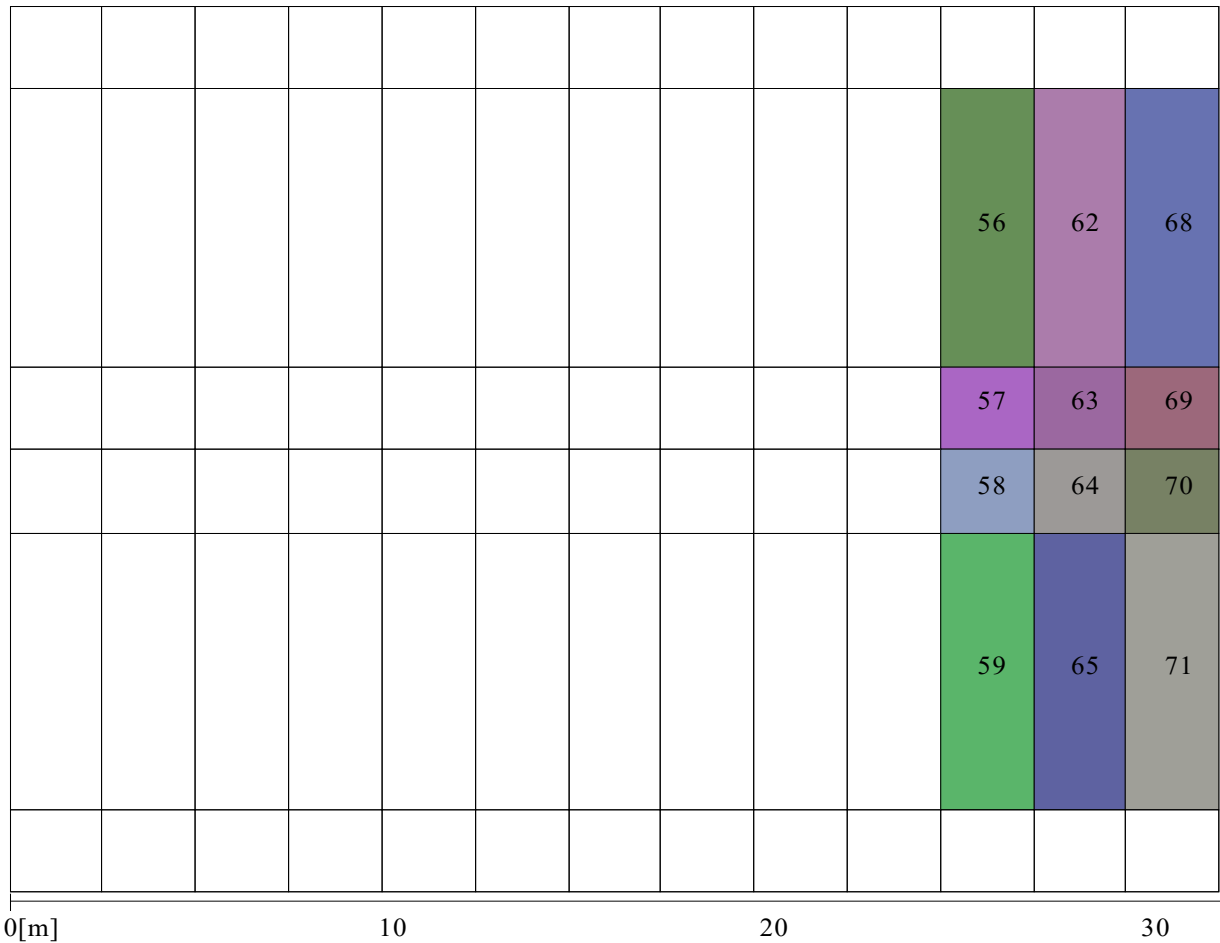
Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case FORE Center
 Stage of flooding 100%
 Intact displacement 455.420 ton
 Intact VCG 2.295 m
 Intact LCG 15.850 m
 Intact TCG -0.000 m

Wind contour : with deck cargo



Horizontal section at 1.500 m

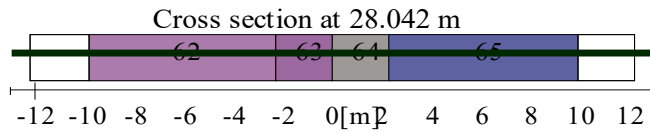


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	FORE Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



FLOODABILITY AND DAMAGE STABILITY

pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case Fore SB

Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Openings calculated to PS

Type of opening/point	Name	Distance WL
Marginline	fore SB	-1.011 m
Marginline	fore PS	-0.700 m
Marginline	aft SB	-0.640 m
Marginline	aft PS	-0.328 m

Openings calculated to SB

Type of opening/point	Name	Distance WL
Marginline	fore SB	-1.011 m
Marginline	fore PS	-0.700 m
Marginline	aft SB	-0.640 m
Marginline	aft PS	-0.328 m

Damaged compartments and intact compartment weights (at 0.73° SB) :

Name	Wintact ton	SWintact ton/m ³	Wdamag. ton	SWdam. ton/m ³
artment (198) A A A AAAAAABA	0.000	1.0000	15.215	1.0000
rtment (198) A A A AAAAAABAA	0.000	1.0000	4.889	1.0000
rtment (198) A A A AAAAAABA	0.000	1.0000	15.720	1.0000
tment (198) A A A AAAAAABAA	0.000	1.0000	5.043	1.0000
tment (198) A A A AAAAAABAAA	0.000	1.0000	16.210	1.0000
ment (198) A A A AAAAAABAAAA	0.000	1.0000	5.198	1.0000

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(φ) m	Area mrad
60.00 PS	455.474	-7.549	-0.009	-3.123	6.112
50.00 PS	455.411	-4.887	0.003	-4.463	5.448
40.00 PS	455.412	-3.148	-0.000	-5.659	4.563
35.00 PS	455.421	-2.463	0.000	-6.188	4.045
30.00 PS	455.420	-1.857	0.001	-6.662	3.484
25.00 PS	455.412	-1.309	0.000	-7.071	2.884
20.00 PS	455.420	-0.805	0.000	-7.395	2.252
15.00 PS	455.424	-0.331	0.000	-7.583	1.597
10.00 PS	455.421	0.121	0.000	-7.445	0.938
5.00 PS	460.066	0.527	0.037	-6.036	0.330
2.00 PS	486.232	0.629	0.185	-3.309	0.079
0.00	509.341	0.659	0.324	-0.857	0.005

FLOODABILITY AND DAMAGE STABILITY

pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case Fore SB
Stage of flooding 100%
Intact displacement 455.420 ton
Intact VCG 2.295 m
Intact LCG 15.850 m
Intact TCG -0.000 m

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(φ) m	Area mrad
0.73 SB	517.803	0.670	0.374	0.000	0.000
2.00 SB	532.455	0.689	0.462	1.597	0.019
5.00 SB	567.704	0.689	0.823	4.492	0.184
10.00 SB	587.904	0.492	1.724	5.913	0.661
15.00 SB	591.212	0.248	2.677	6.050	1.185
20.00 SB	591.629	-0.015	3.645	5.900	1.708
25.00 SB	591.651	-0.298	4.670	5.629	2.212
30.00 SB	591.651	-0.605	5.783	5.285	2.689
35.00 SB	591.652	-0.944	7.013	4.885	3.133
40.00 SB	591.652	-1.327	8.404	4.440	3.540
50.00 SB	591.651	-2.301	11.936	3.441	4.229
60.00 SB	591.652	-3.794	17.347	2.328	4.734

Statical angle of inclination is 0.73 degrees to starboard

Wind contour with deck cargo

Verification against the stability criteria "Residual freeboard >0.1 m"

Criteria calculated to PS

Distance between waterline and deck due to wind- and passenger moment	<u>Criterion</u> 0.1000	<u>Value</u> 0.9711	meter
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Criteria calculated to SB

Distance between waterline and deck due to wind- and passenger moment	<u>Criterion</u> 0.1000	<u>Value</u> 0.9662	meter
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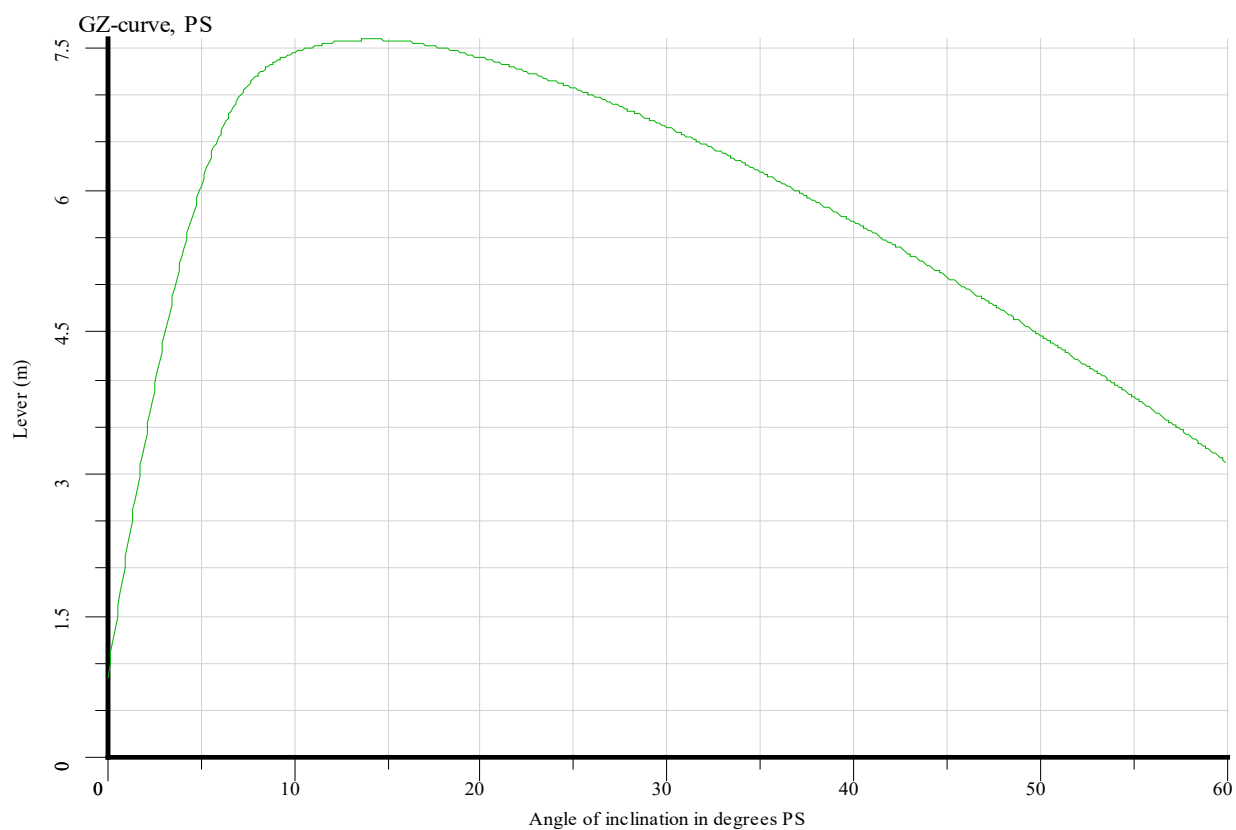
This damage case complies with the stated criteria

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	Fore SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

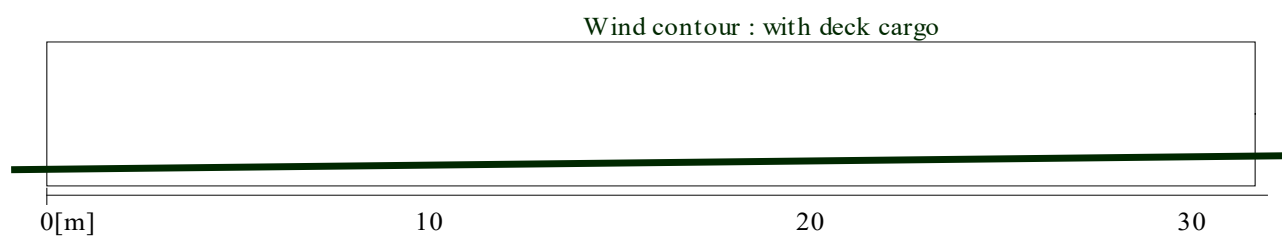
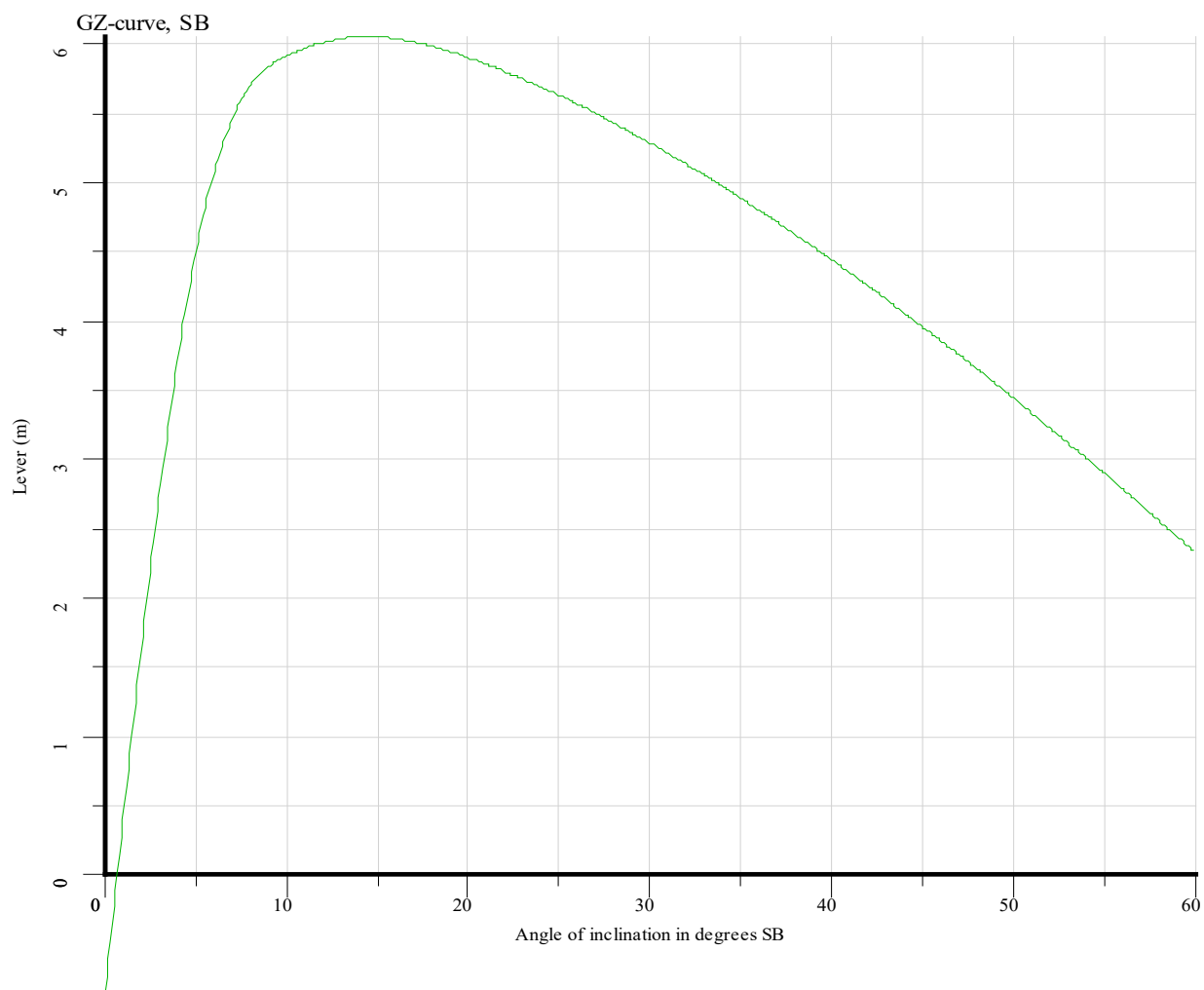


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	Fore SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



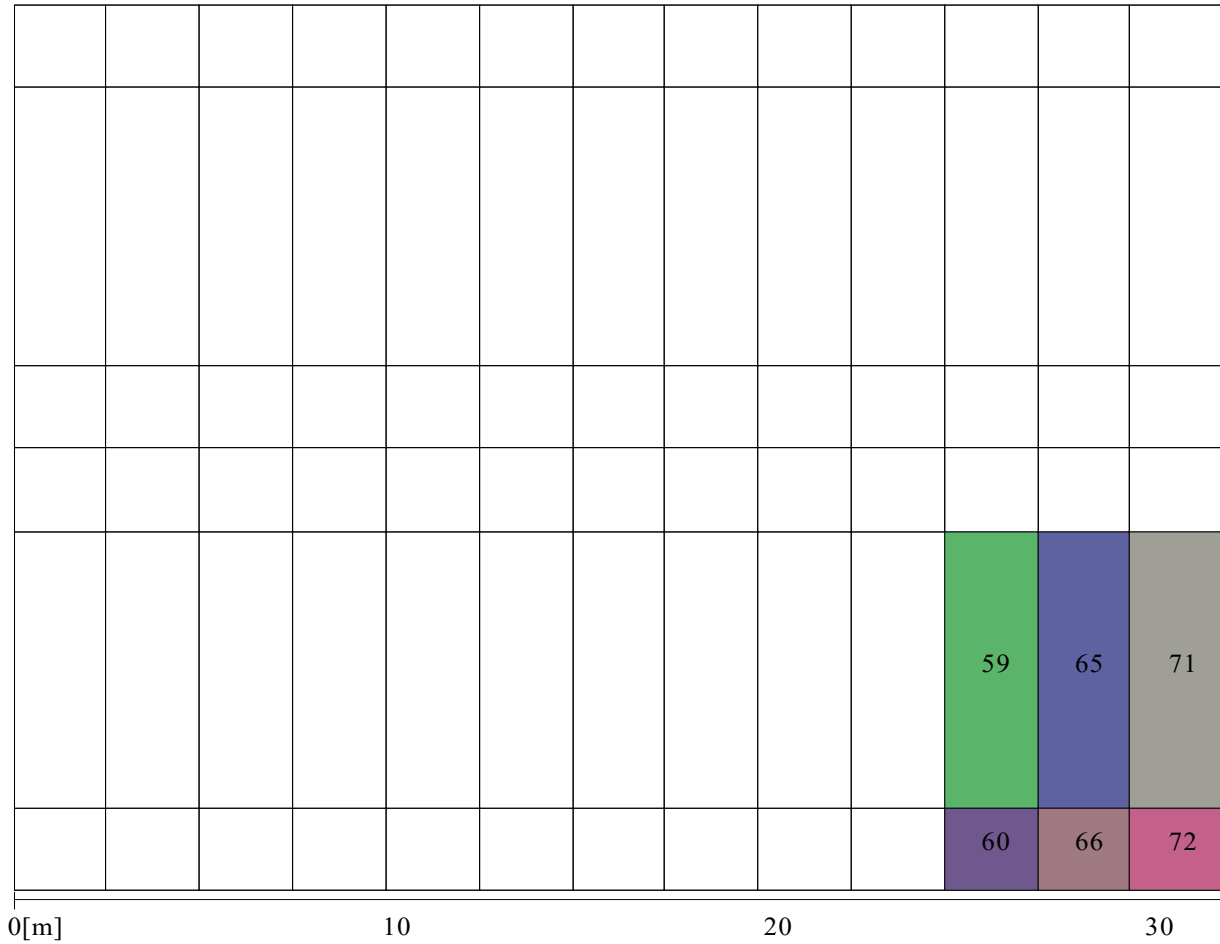
FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

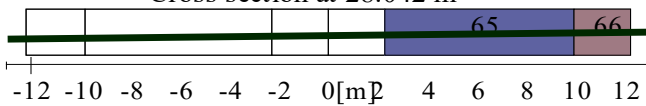
Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Damage case	Fore SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Horizontal section at 1.500 m



Cross section at 28.042 m



FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Openings calculated to PS

Type of opening/point	Name	Distance WL
Marginline	aft SB	-1.509 m
Marginline	aft PS	-1.059 m
Marginline	fore SB	-0.538 m
Marginline	fore PS	-0.088 m

Openings calculated to SB

Type of opening/point	Name	Distance WL
Marginline	aft SB	-1.509 m
Marginline	aft PS	-1.059 m
Marginline	fore SB	-0.538 m
Marginline	fore PS	-0.088 m

Damaged compartments and intact compartment weights (at 1.06° SB) :

Name	Wintact ton	SWintact ton/m ³	Wdamag. ton	SWdam. ton/m ³
New compartment (198) A	0.000	1.0000	18.713	1.0000
New compartment (198) A	0.000	1.0000	6.095	1.0000
New compartment (198) A	0.000	1.0000	6.320	1.0000
New compartment (198) A A	0.000	1.0000	22.641	1.0000
New compartment (198) A A	0.000	1.0000	17.392	1.0000
New compartment (198) A A	0.000	1.0000	5.698	1.0000
New compartment (198) A A	0.000	1.0000	5.922	1.0000
New compartment (198) A A A	0.000	1.0000	21.318	1.0000
New compartment (199) A	0.000	1.0000	20.018	1.0000
New compartment (199) A	0.000	1.0000	6.487	1.0000
New compartment (199) A	0.000	1.0000	6.713	1.0000
New compartment (199) A A	0.000	1.0000	23.957	1.0000

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(φ) m	Area mrad
60.00 PS	632.297	-2.666	-22.787	-3.292	6.471
50.00 PS	632.297	-1.526	-15.679	-4.682	5.773
40.00 PS	632.215	-0.782	-11.035	-5.922	4.845
35.00 PS	632.125	-0.490	-9.202	-6.473	4.304
30.00 PS	632.291	-0.229	-7.596	-6.967	3.717
25.00 PS	632.111	0.004	-6.128	-7.397	3.090

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case AFT Center
Stage of flooding 100%
Intact displacement 455.420 ton
Intact VCG 2.295 m
Intact LCG 15.850 m
Intact TCG -0.000 m

Angle degrees		Displacement ton	Draft m	Trim m	GNsin(ϕ) m	Area mrad
20.00	PS	632.291	0.222	-4.788	-7.746	2.428
15.00	PS	632.293	0.424	-3.525	-7.975	1.741
10.00	PS	632.759	0.617	-2.337	-7.940	1.045
5.00	PS	626.651	0.769	-1.254	-6.699	0.383
2.00	PS	617.078	0.799	-0.976	-3.807	0.101
0.00		616.987	0.799	-0.974	-1.293	0.011
1.06	SB	617.035	0.799	-0.975	0.000	0.000
2.00	SB	617.078	0.799	-0.976	1.223	0.011
5.00	SB	626.653	0.769	-1.254	4.123	0.157
10.00	SB	632.760	0.617	-2.337	5.394	0.596
15.00	SB	632.292	0.424	-3.525	5.477	1.072
20.00	SB	632.292	0.222	-4.788	5.316	1.544
25.00	SB	632.291	0.006	-6.135	5.053	1.997
30.00	SB	632.023	-0.231	-7.582	4.729	2.424
35.00	SB	632.294	-0.488	-9.212	4.354	2.821
40.00	SB	632.291	-0.781	-11.039	3.941	3.183
50.00	SB	632.317	-1.525	-15.681	3.020	3.792
60.00	SB	632.435	-2.662	-22.804	1.999	4.231

Statical angle of inclination is 1.06 degrees to starboard

Wind contour with deck cargo

Additional heeling moment is 588.793 tonm

Verification against the stability criteria "Residual freeboard >0.1 m"

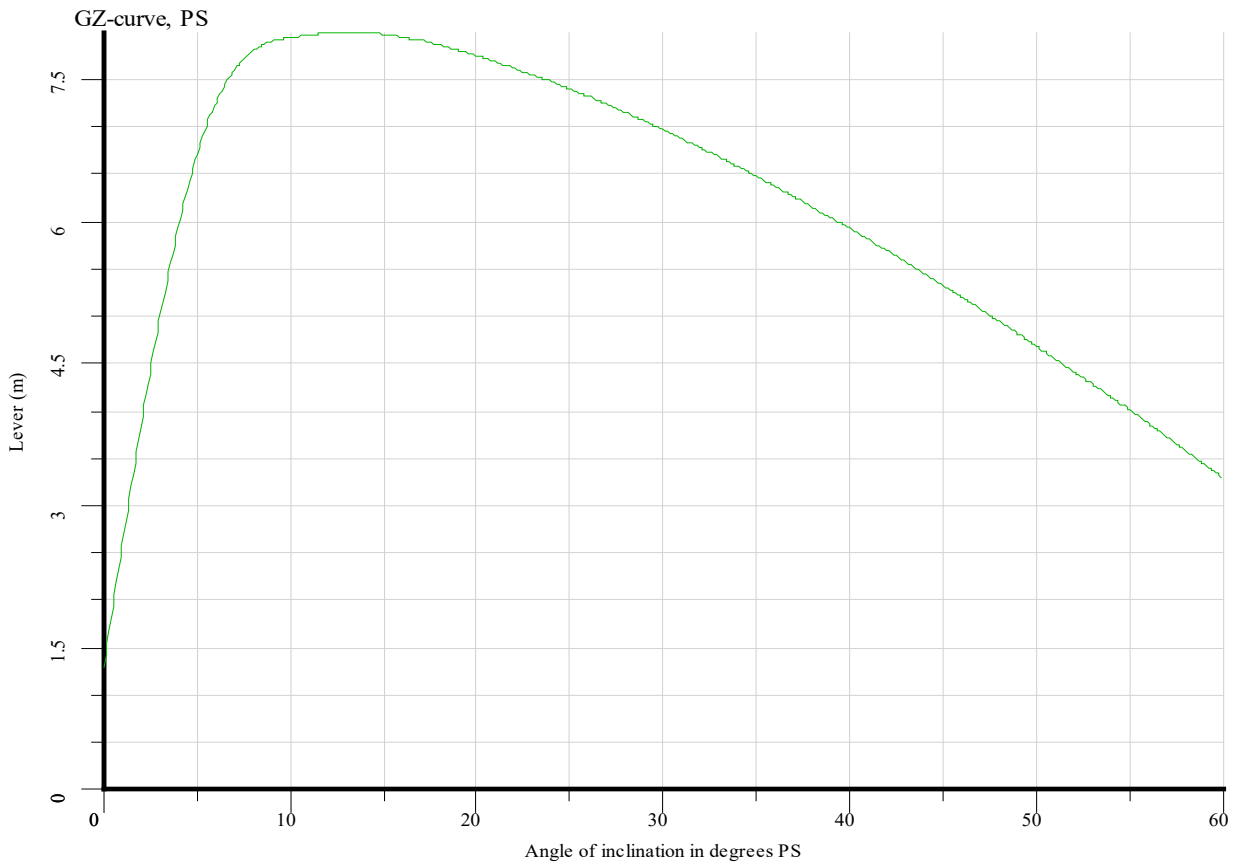
<u>Criteria calculated to PS</u>		<u>Criterion</u>	<u>Value</u>	
Distance between waterline and deck due to wind- and passenger moment		0.1000	0.4726	meter
<u>Criteria calculated to SB</u>		<u>Criterion</u>	<u>Value</u>	
Distance between waterline and deck due to wind- and passenger moment		0.1000	0.4689	meter
This damage case complies with the stated criteria				

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

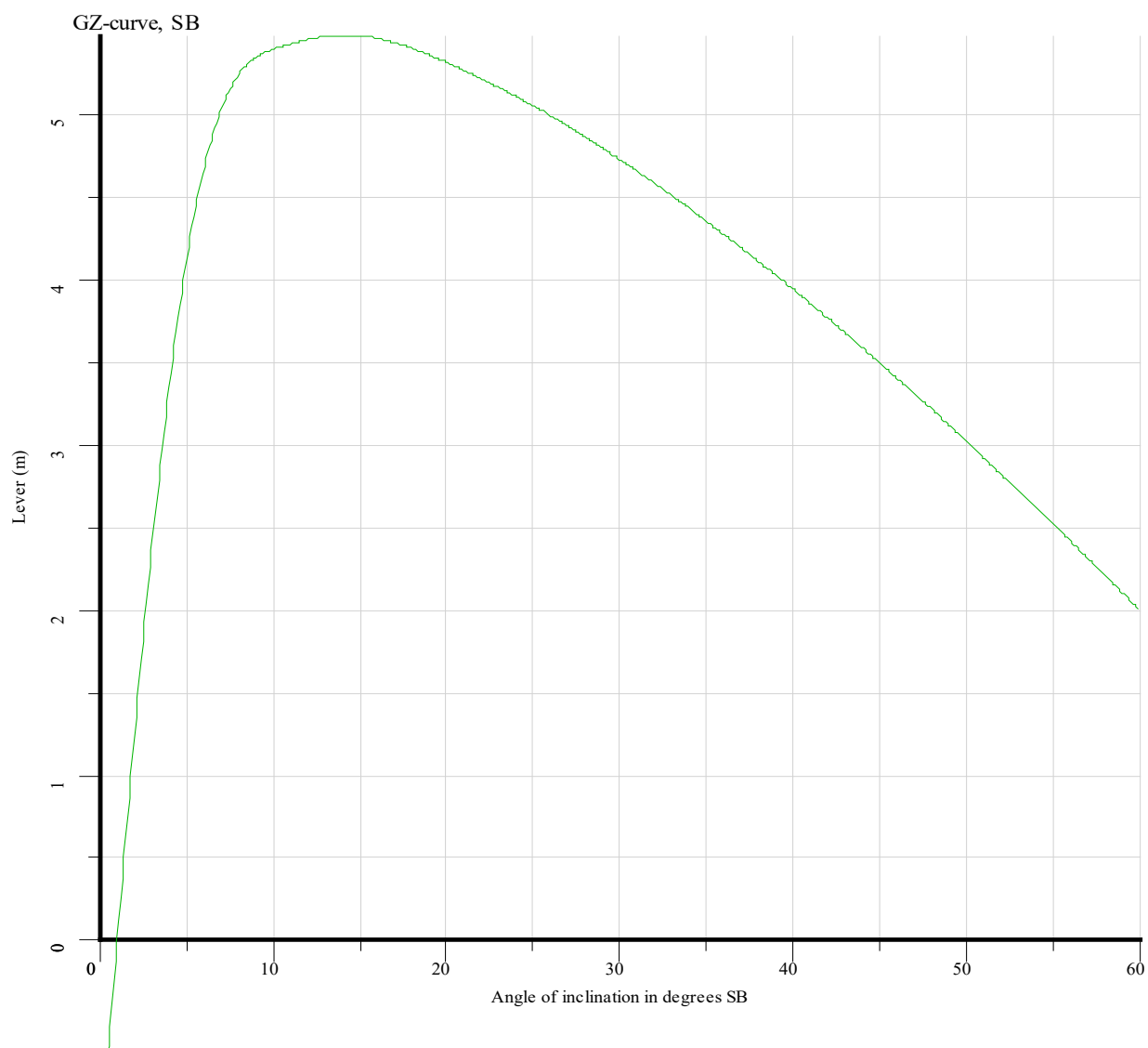


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



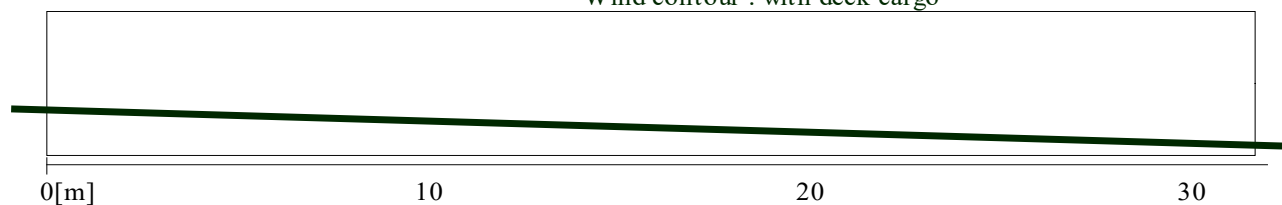
FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

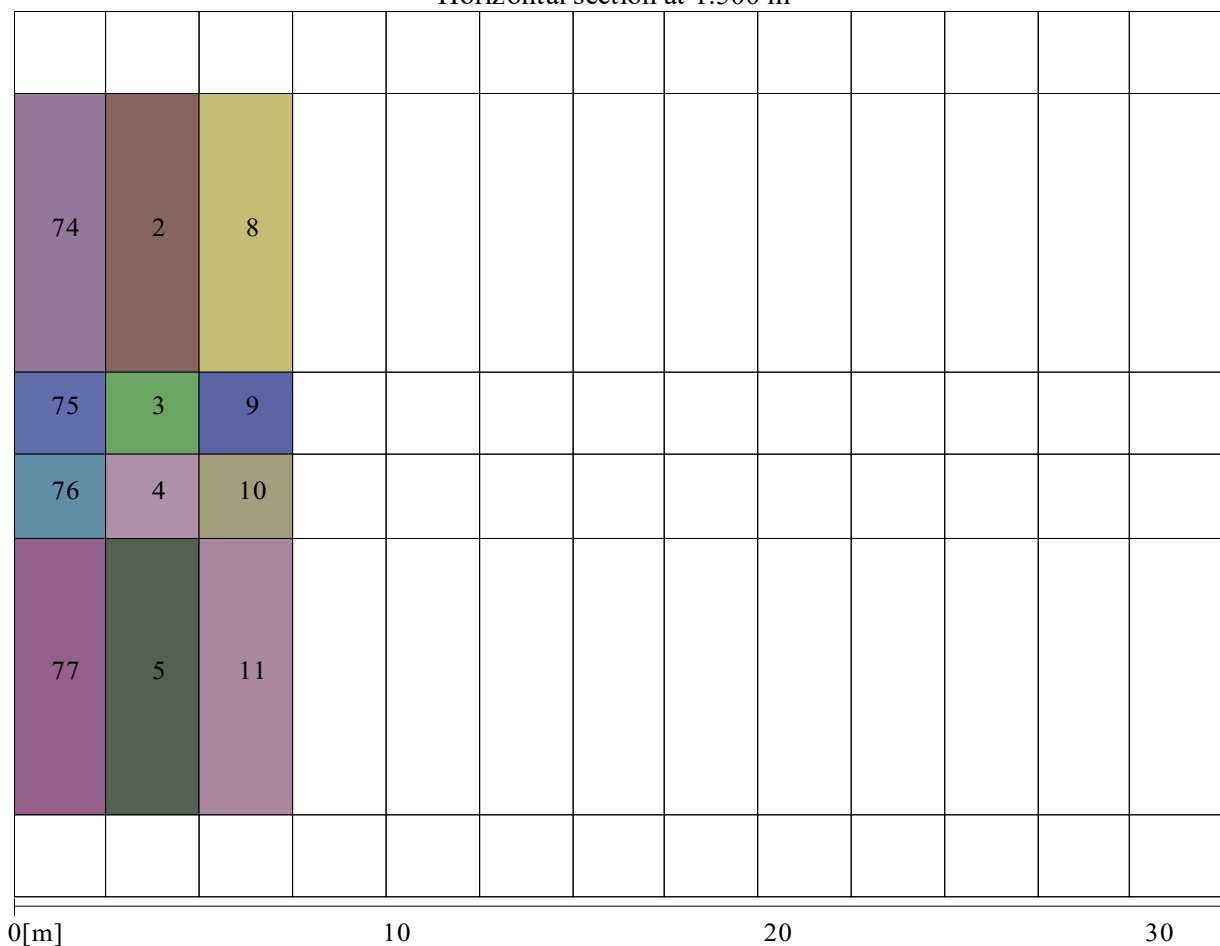
Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Wind contour : with deck cargo



Horizontal section at 1.500 m

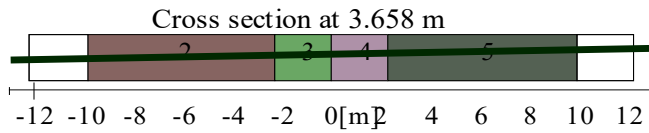


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	AFT Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case AFT SB

Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Openings calculated to PS

Type of opening/point	Name	Distance WL
Marginline	aft SB	-1.280 m
Marginline	fore SB	-0.837 m
Marginline	aft PS	-0.533 m
Marginline	fore PS	-0.090 m

Openings calculated to SB

Type of opening/point	Name	Distance WL
Marginline	aft SB	-1.280 m
Marginline	fore SB	-0.837 m
Marginline	aft PS	-0.533 m
Marginline	fore PS	-0.090 m

Damaged compartments and intact compartment weights (at 1.76° SB) :

Name	Wintact ton	SWintact ton/m ³	Wdamag. ton	SWdam. ton/m ³
New compartment (198) A A	0.000	1.0000	18.409	1.0000
New compartment (198) A A A	0.000	1.0000	6.303	1.0000
New compartment (198) A A A	0.000	1.0000	17.805	1.0000
ew compartment (198) A A AA	0.000	1.0000	6.119	1.0000
New compartment (199) A A	0.000	1.0000	18.997	1.0000
New compartment (199) A A A	0.000	1.0000	6.485	1.0000

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(φ) m	Area mrad
60.00 PS	455.420	-7.551	0.001	-3.770	7.259
50.00 PS	455.420	-4.886	0.001	-5.294	6.466
40.00 PS	455.412	-3.148	0.001	-6.649	5.421
35.00 PS	455.400	-2.463	0.001	-7.247	4.814
30.00 PS	455.414	-1.857	0.001	-7.782	4.158
25.00 PS	455.412	-1.309	0.000	-8.243	3.458
20.00 PS	455.421	-0.805	0.000	-8.609	2.722
15.00 PS	455.407	-0.331	0.001	-8.832	1.959
10.00 PS	455.418	0.121	0.000	-8.718	1.190
5.00 PS	460.064	0.527	-0.037	-7.324	0.470
2.00 PS	486.228	0.629	-0.185	-4.601	0.151
0.00	509.338	0.659	-0.324	-2.149	0.032

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case AFT SB
Stage of flooding 100%
Intact displacement 455.420 ton
Intact VCG 2.295 m
Intact LCG 15.850 m
Intact TCG -0.000 m

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(ϕ) m	Area mrad
1.76 SB	529.647	0.686	-0.445	0.000	0.000
2.00 SB	532.454	0.689	-0.462	0.305	0.001
5.00 SB	567.725	0.689	-0.823	3.204	0.099
10.00 SB	587.902	0.493	-1.724	4.640	0.464
15.00 SB	591.211	0.249	-2.676	4.801	0.878
20.00 SB	591.629	-0.014	-3.645	4.685	1.293
25.00 SB	591.652	-0.297	-4.670	4.458	1.693
30.00 SB	591.652	-0.603	-5.782	4.165	2.069
35.00 SB	591.652	-0.942	-7.012	3.826	2.418
40.00 SB	591.680	-1.325	-8.405	3.450	2.736
50.00 SB	591.651	-2.298	-11.935	2.610	3.266
60.00 SB	591.728	-3.787	-17.360	1.681	3.642

Statical angle of inclination is 1.76 degrees to starboard

Wind contour with deck cargo

Additional heeling moment is 588.793 tonm

Verification against the stability criteria "Residual freeboard >0.1 m"

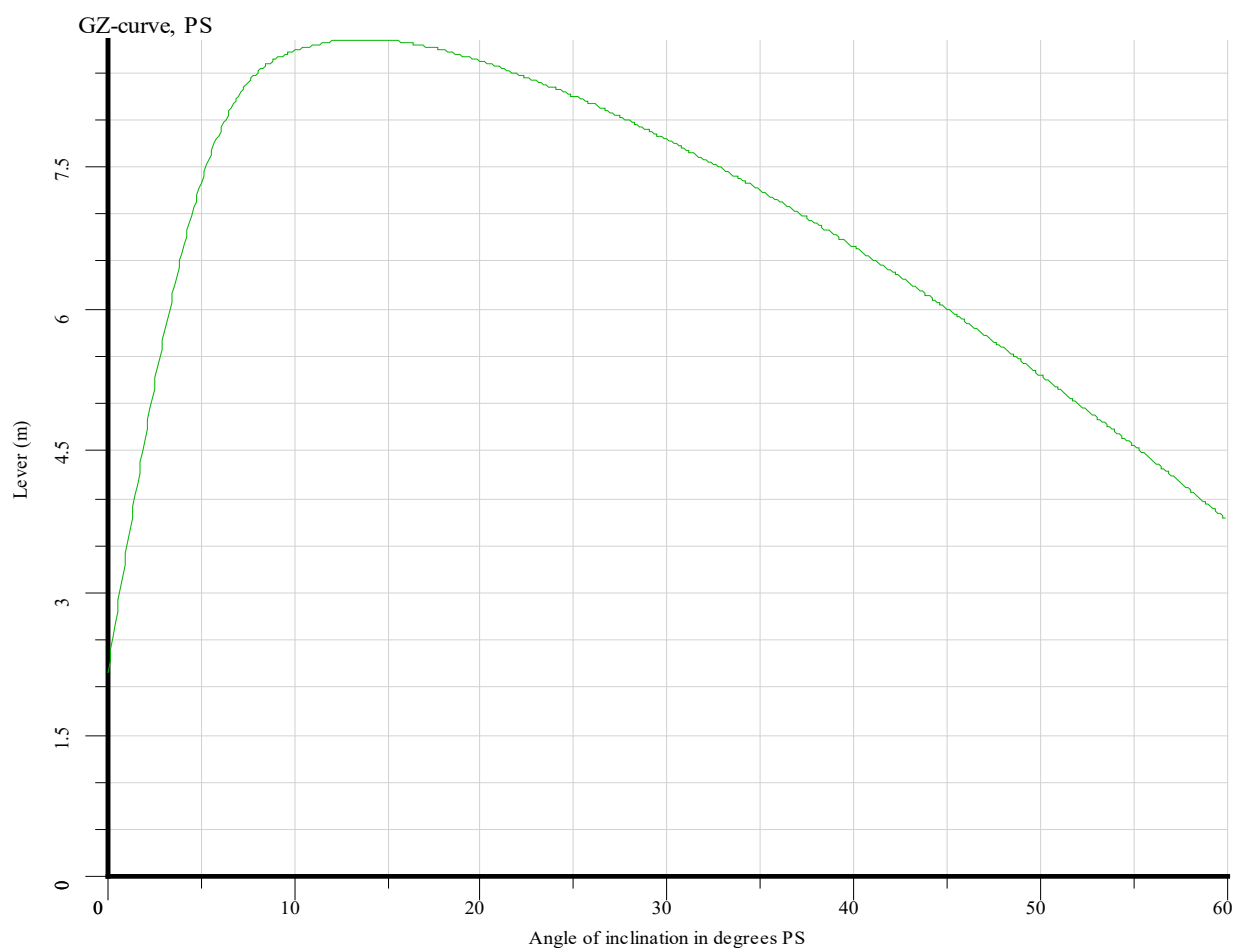
<u>Criteria calculated to PS</u>		<u>Criterion</u>	<u>Value</u>	
Distance between waterline and deck due to wind- and passenger moment		0.1000	0.7013	meter
<u>Criteria calculated to SB</u>		<u>Criterion</u>	<u>Value</u>	
Distance between waterline and deck due to wind- and passenger moment		0.1000	0.6964	meter
This damage case complies with the stated criteria				

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	AFT SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

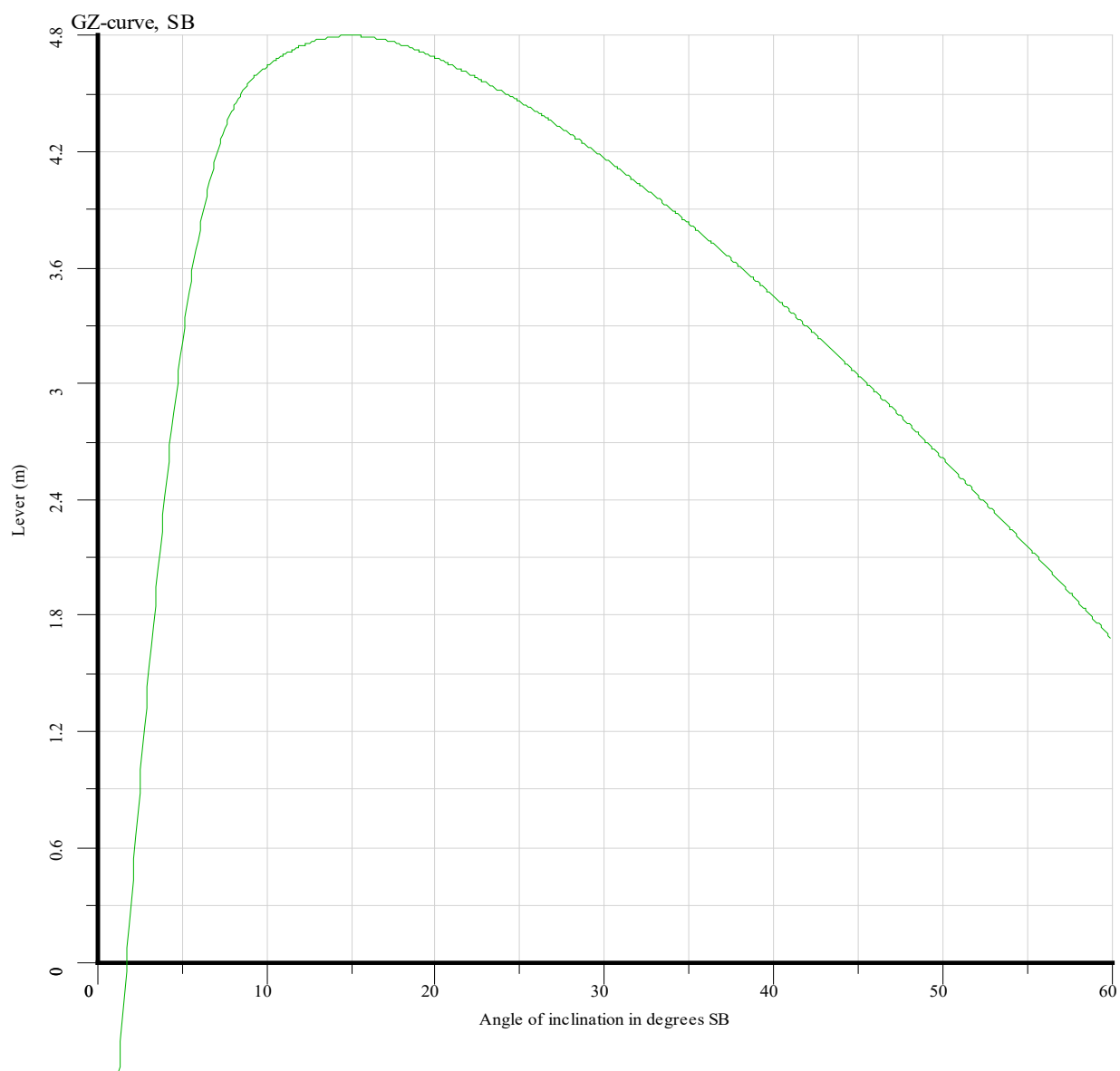


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	AFT SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

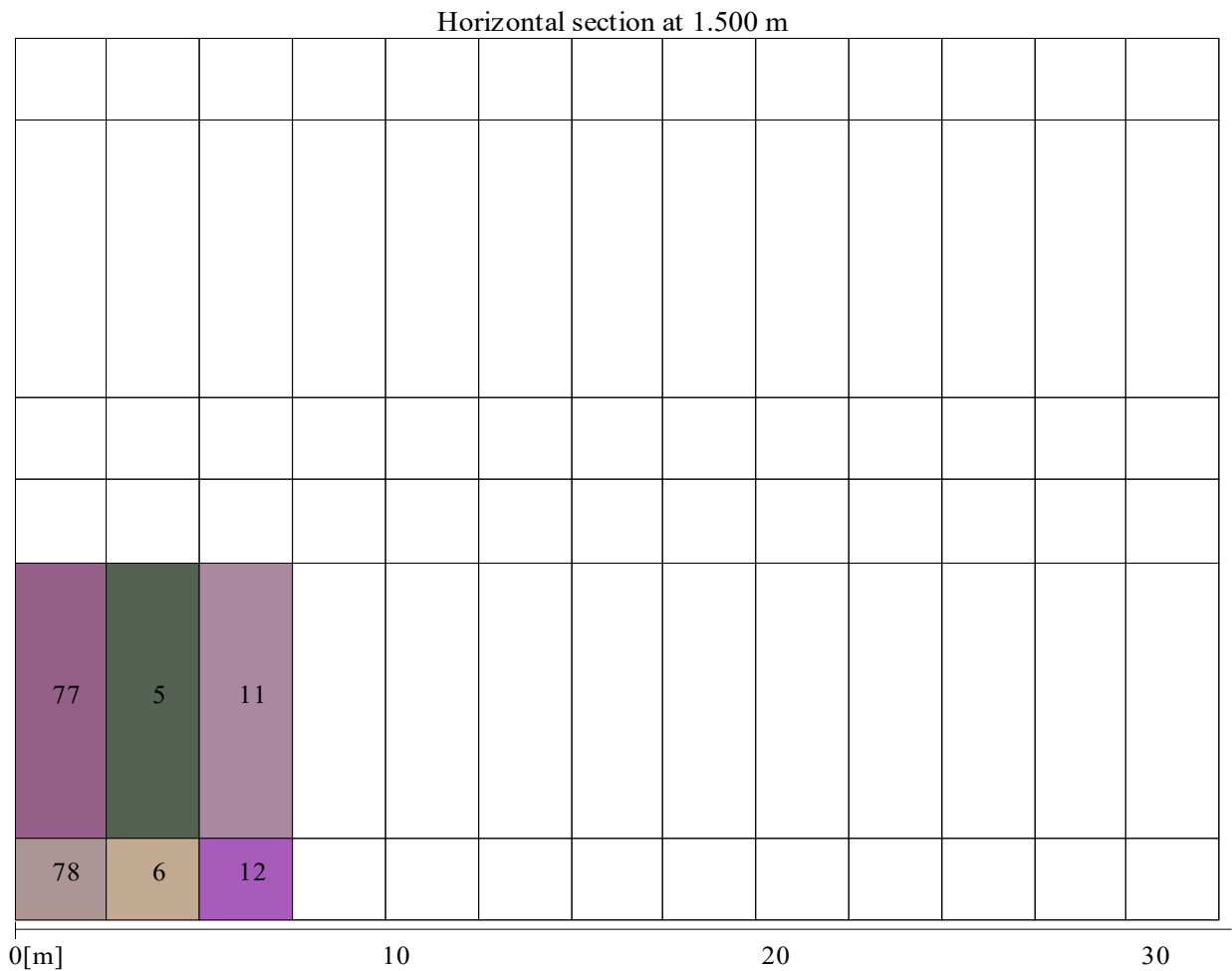
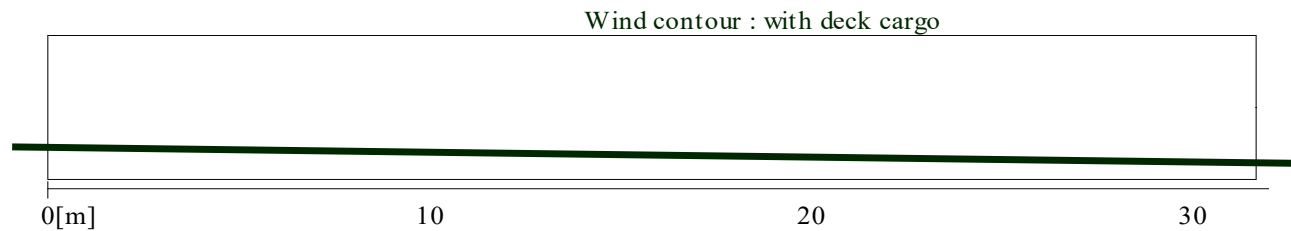


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	AFT SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

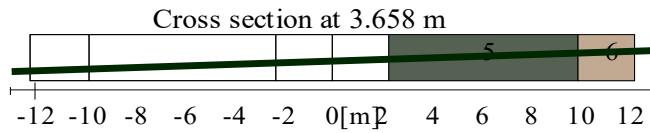


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	AFT SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case FORE Center

Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Openings calculated to PS

Type of opening/point	Name	Distance WL
Marginline	fore SB	-1.509 m
Marginline	fore PS	-1.059 m
Marginline	aft SB	-0.538 m
Marginline	aft PS	-0.088 m

Openings calculated to SB

Type of opening/point	Name	Distance WL
Marginline	fore SB	-1.509 m
Marginline	fore PS	-1.059 m
Marginline	aft SB	-0.538 m
Marginline	aft PS	-0.088 m

Damaged compartments and intact compartment weights (at 1.06° SB) :

Name	Wintact ton	SWintact ton/m ³	Wdamag. ton	SWdam. ton/m ³
partment (198) A A A AAAAAAD	0.000	1.0000	17.393	1.0000
partment (198) A A A AAAAAAC	0.000	1.0000	5.699	1.0000
partment (198) A A A AAAAAAB	0.000	1.0000	5.922	1.0000
artment (198) A A A AAAAAABA	0.000	1.0000	21.319	1.0000
artment (198) A A A AAAAAAD	0.000	1.0000	18.714	1.0000
artment (198) A A A AAAAAAC	0.000	1.0000	6.096	1.0000
artment (198) A A A AAAAAAB	0.000	1.0000	6.320	1.0000
rtment (198) A A A AAAAAABA	0.000	1.0000	22.642	1.0000
rtment (198) A A A AAAAAAC	0.000	1.0000	20.019	1.0000
rtment (198) A A A AAAAAAB	0.000	1.0000	6.488	1.0000
rtment (198) A A A AAAAA	0.000	1.0000	6.713	1.0000
tment (198) A A A AAAAA	0.000	1.0000	23.958	1.0000

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(φ) m	Area mrad
60.00 PS	632.311	-2.672	22.817	-3.292	6.470
50.00 PS	632.326	-1.530	15.681	-4.682	5.773
40.00 PS	632.304	-0.784	11.041	-5.922	4.845
35.00 PS	632.327	-0.490	9.215	-6.472	4.304
30.00 PS	632.305	-0.231	7.597	-6.967	3.717
25.00 PS	632.306	0.004	6.136	-7.397	3.090

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case FORE Center
Stage of flooding 100%
Intact displacement 455.420 ton
Intact VCG 2.295 m
Intact LCG 15.850 m
Intact TCG -0.000 m

Angle degrees		Displacement ton	Draft m	Trim m	GNsin(ϕ) m	Area mrad
20.00	PS	632.306	0.220	4.789	-7.746	2.428
15.00	PS	632.307	0.423	3.526	-7.975	1.741
10.00	PS	632.772	0.616	2.337	-7.940	1.045
5.00	PS	626.664	0.769	1.254	-6.698	0.383
2.00	PS	617.087	0.798	0.977	-3.807	0.101
0.00		616.997	0.799	0.974	-1.293	0.011
1.06	SB	617.045	0.798	0.976	0.000	0.000
2.00	SB	617.087	0.798	0.977	1.223	0.011
5.00	SB	626.665	0.769	1.254	4.123	0.157
10.00	SB	632.770	0.616	2.337	5.394	0.596
15.00	SB	632.308	0.423	3.526	5.477	1.072
20.00	SB	632.306	0.220	4.789	5.316	1.544
25.00	SB	632.292	0.004	6.142	5.052	1.997
30.00	SB	632.305	-0.231	7.597	4.727	2.424
35.00	SB	632.325	-0.490	9.214	4.354	2.820
40.00	SB	632.304	-0.784	11.041	3.941	3.183
50.00	SB	632.311	-1.530	15.682	3.019	3.792
60.00	SB	632.317	-2.672	22.792	2.000	4.231

Statical angle of inclination is 1.06 degrees to starboard

Wind contour with deck cargo

Additional heeling moment is 588.793 tonm

Verification against the stability criteria "Residual freeboard >0.1 m"

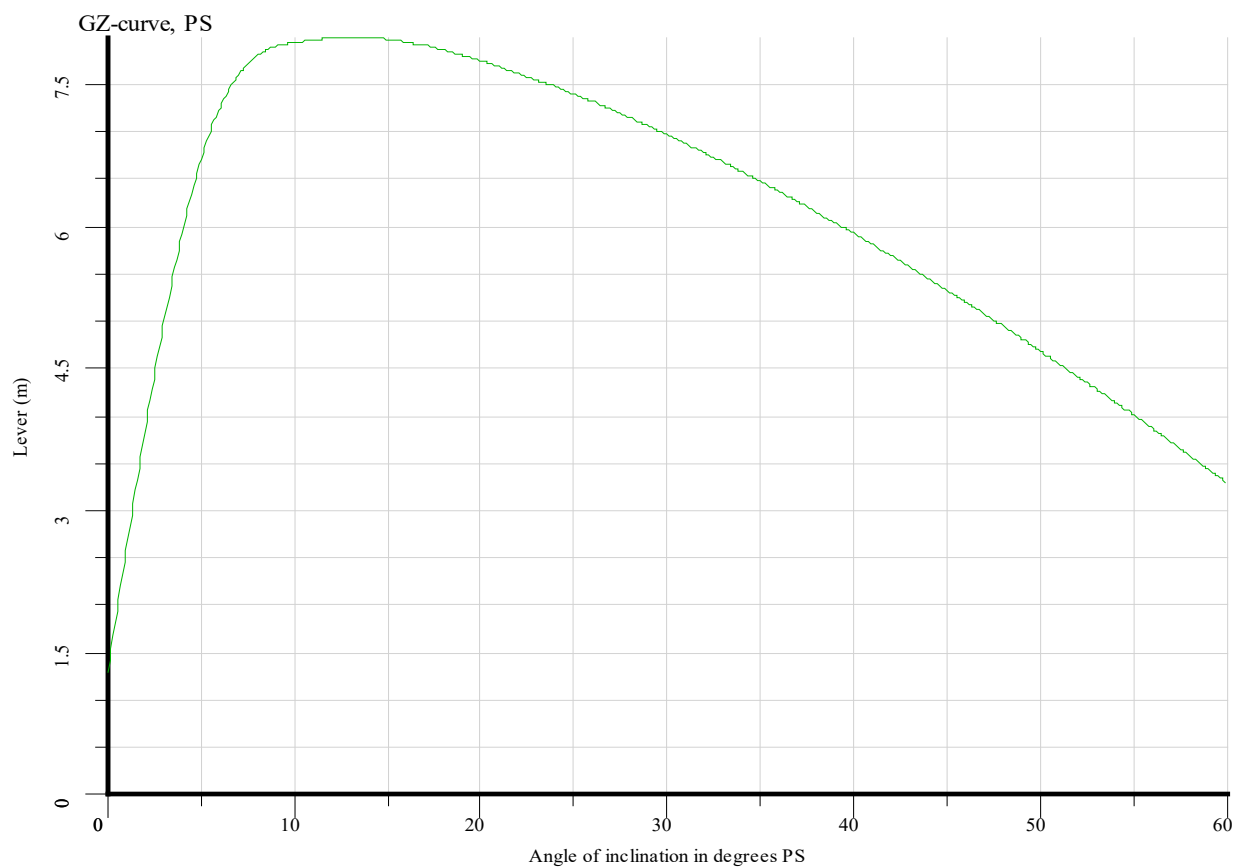
<u>Criteria calculated to PS</u>		<u>Criterion</u>	<u>Value</u>	
Distance between waterline and deck due to wind- and passenger moment		0.1000	0.4725	meter
<u>Criteria calculated to SB</u>		<u>Criterion</u>	<u>Value</u>	
Distance between waterline and deck due to wind- and passenger moment		0.1000	0.4688	meter
This damage case complies with the stated criteria				

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	FORE Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

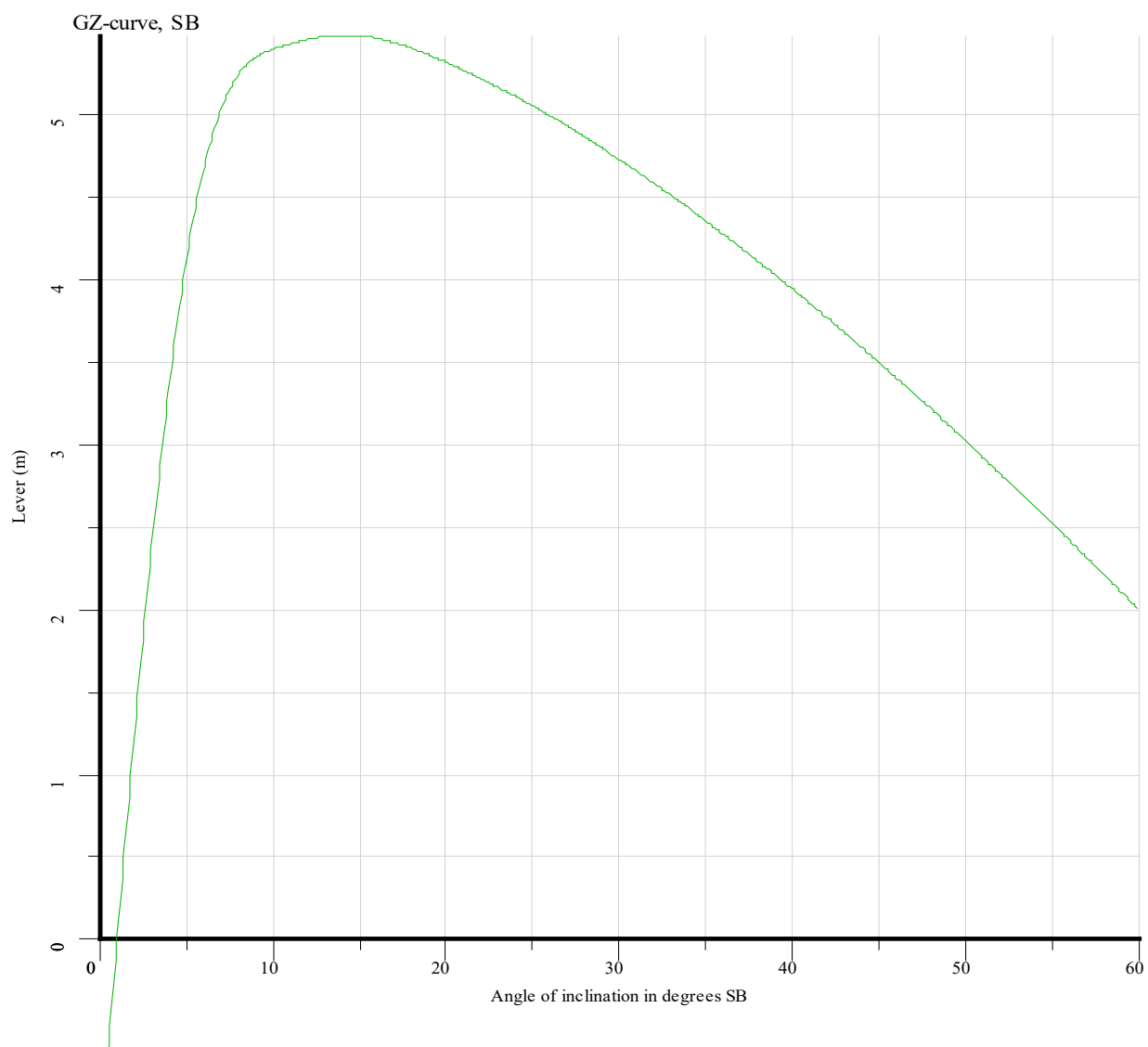


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	FORE Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



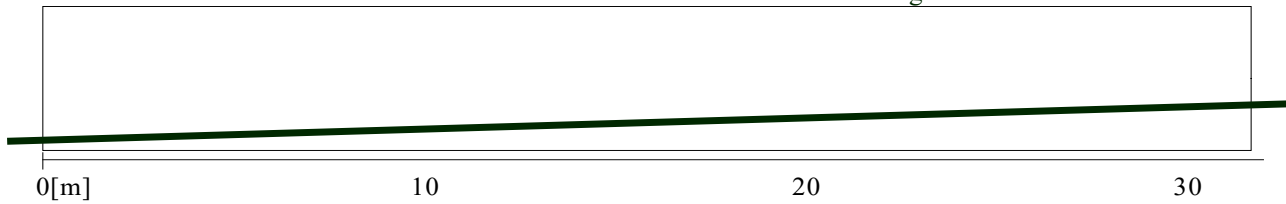
FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

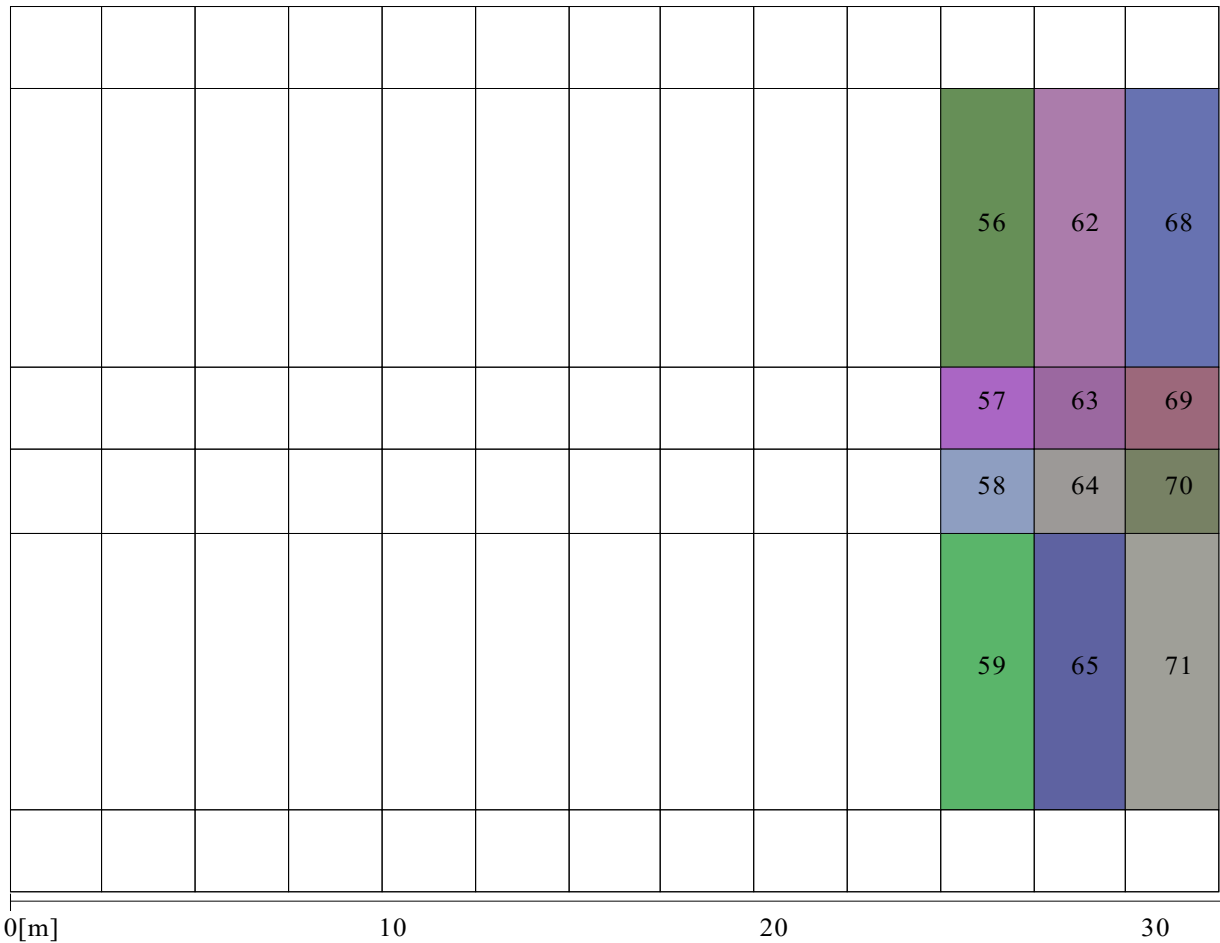
Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	FORE Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Wind contour : with deck cargo



Horizontal section at 1.500 m

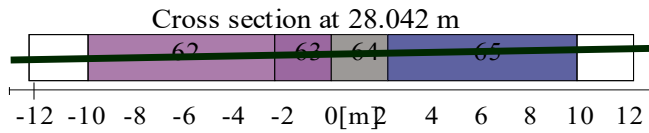


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	FORE Center
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case Fore SB

Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

Openings calculated to PS

Type of opening/point	Name	Distance WL
Marginline	fore SB	-1.280 m
Marginline	aft SB	-0.837 m
Marginline	fore PS	-0.533 m
Marginline	aft PS	-0.089 m

Openings calculated to SB

Type of opening/point	Name	Distance WL
Marginline	fore SB	-1.280 m
Marginline	aft SB	-0.837 m
Marginline	fore PS	-0.533 m
Marginline	aft PS	-0.089 m

Damaged compartments and intact compartment weights (at 1.76° SB) :

Name	Wintact ton	SWintact ton/m ³	Wdamag. ton	SWdam. ton/m ³
artment (198) A A A AAAAAABA	0.000	1.0000	17.806	1.0000
rtment (198) A A A AAAAAABAA	0.000	1.0000	6.120	1.0000
rtment (198) A A A AAAAAABA	0.000	1.0000	18.410	1.0000
tment (198) A A A AAAAAABAA	0.000	1.0000	6.303	1.0000
tment (198) A A A AAAAAABAAA	0.000	1.0000	18.998	1.0000
ment (198) A A A AAAAAABAAAA	0.000	1.0000	6.485	1.0000

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(φ) m	Area mrad
60.00 PS	455.474	-7.549	-0.009	-3.770	7.259
50.00 PS	455.411	-4.887	0.003	-5.294	6.466
40.00 PS	455.412	-3.148	-0.000	-6.649	5.421
35.00 PS	455.421	-2.463	0.000	-7.247	4.814
30.00 PS	455.420	-1.857	0.001	-7.782	4.158
25.00 PS	455.412	-1.309	0.000	-8.243	3.458
20.00 PS	455.420	-0.805	0.000	-8.609	2.722
15.00 PS	455.424	-0.331	0.000	-8.832	1.959
10.00 PS	455.421	0.121	0.000	-8.718	1.190
5.00 PS	460.066	0.527	0.037	-7.324	0.470
2.00 PS	486.232	0.629	0.185	-4.601	0.151
0.00	509.341	0.659	0.324	-2.149	0.032

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case Fore SB
Stage of flooding 100%
Intact displacement 455.420 ton
Intact VCG 2.295 m
Intact LCG 15.850 m
Intact TCG -0.000 m

Angle degrees	Displacement ton	Draft m	Trim m	GNsin(ϕ) m	Area mrad
1.76 SB	529.649	0.686	0.446	0.000	0.000
2.00 SB	532.455	0.689	0.462	0.305	0.001
5.00 SB	567.704	0.689	0.823	3.204	0.099
10.00 SB	587.904	0.492	1.724	4.639	0.464
15.00 SB	591.212	0.248	2.677	4.801	0.878
20.00 SB	591.629	-0.015	3.645	4.685	1.293
25.00 SB	591.651	-0.298	4.670	4.458	1.693
30.00 SB	591.651	-0.605	5.783	4.165	2.069
35.00 SB	591.652	-0.944	7.013	3.826	2.418
40.00 SB	591.652	-1.327	8.404	3.450	2.736
50.00 SB	591.651	-2.301	11.936	2.609	3.266
60.00 SB	591.652	-3.794	17.347	1.682	3.642

Statical angle of inclination is 1.76 degrees to starboard

Wind contour with deck cargo

Additional heeling moment is 588.793 tonm

Verification against the stability criteria "Residual freeboard >0.1 m"

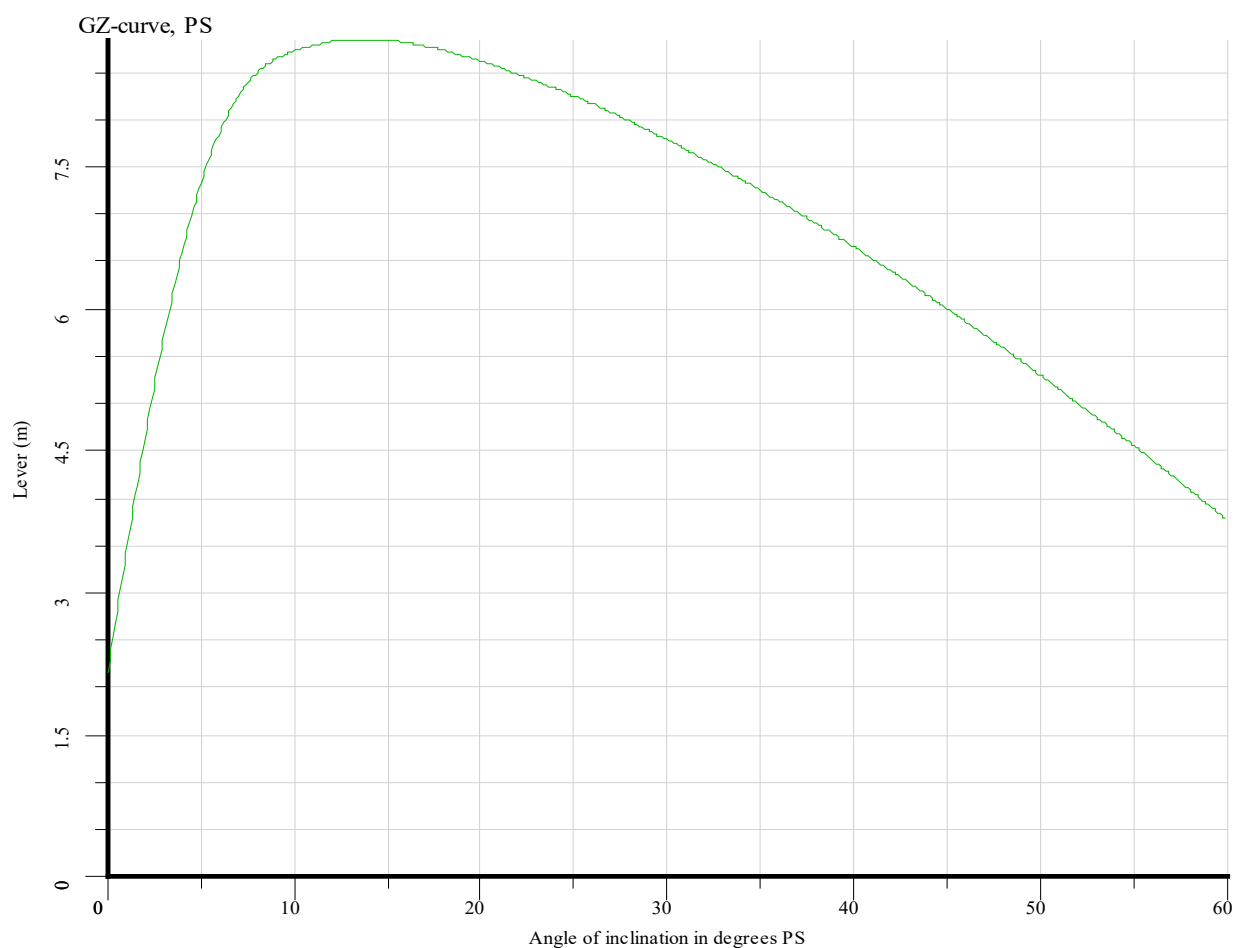
<u>Criteria calculated to PS</u>		<u>Criterion</u>	<u>Value</u>	
Distance between waterline and deck due to wind- and passenger moment		0.1000	0.7012	meter
<u>Criteria calculated to SB</u>		<u>Criterion</u>	<u>Value</u>	
Distance between waterline and deck due to wind- and passenger moment		0.1000	0.6963	meter
This damage case complies with the stated criteria				

FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	Fore SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

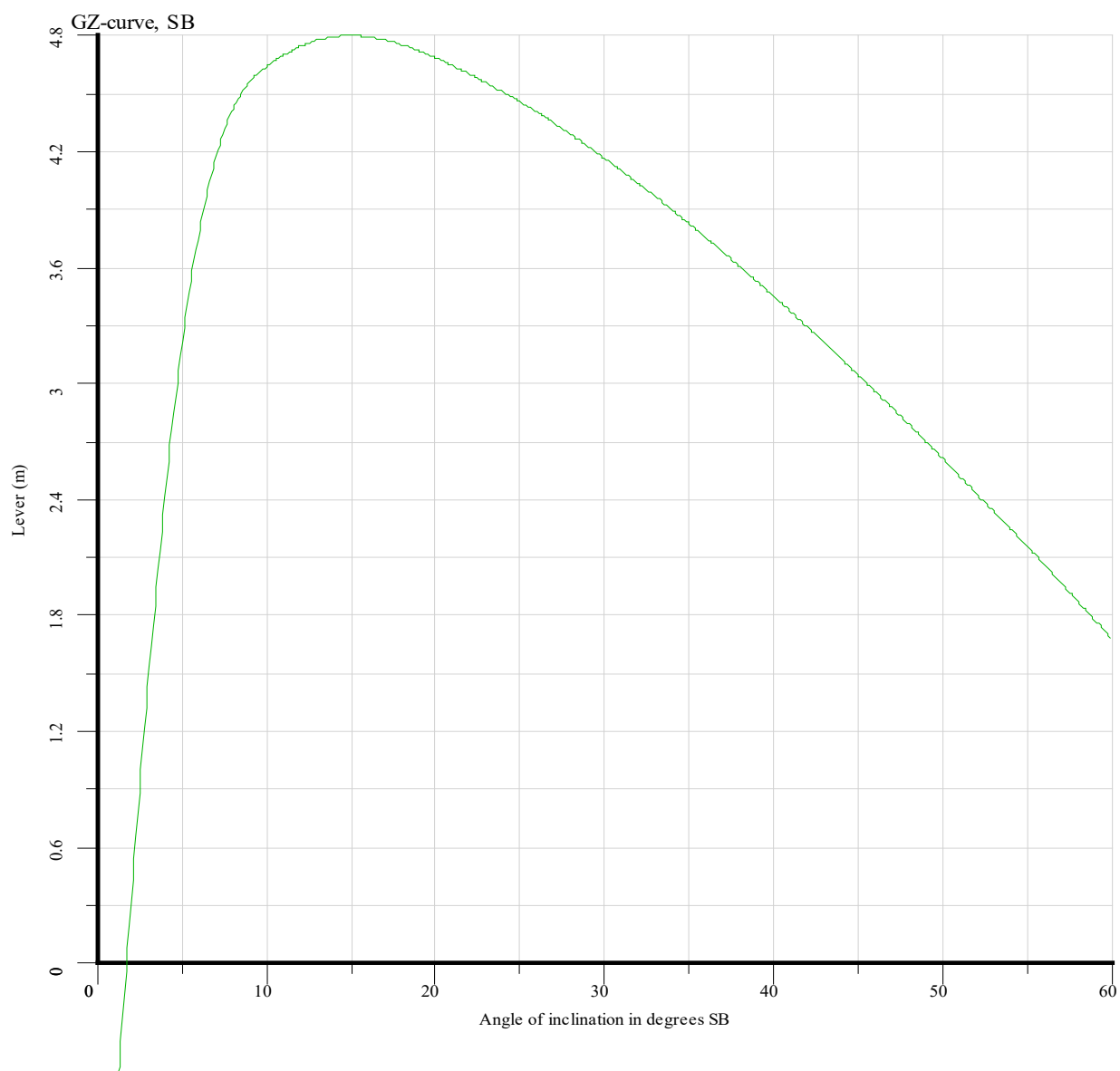


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	Fore SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

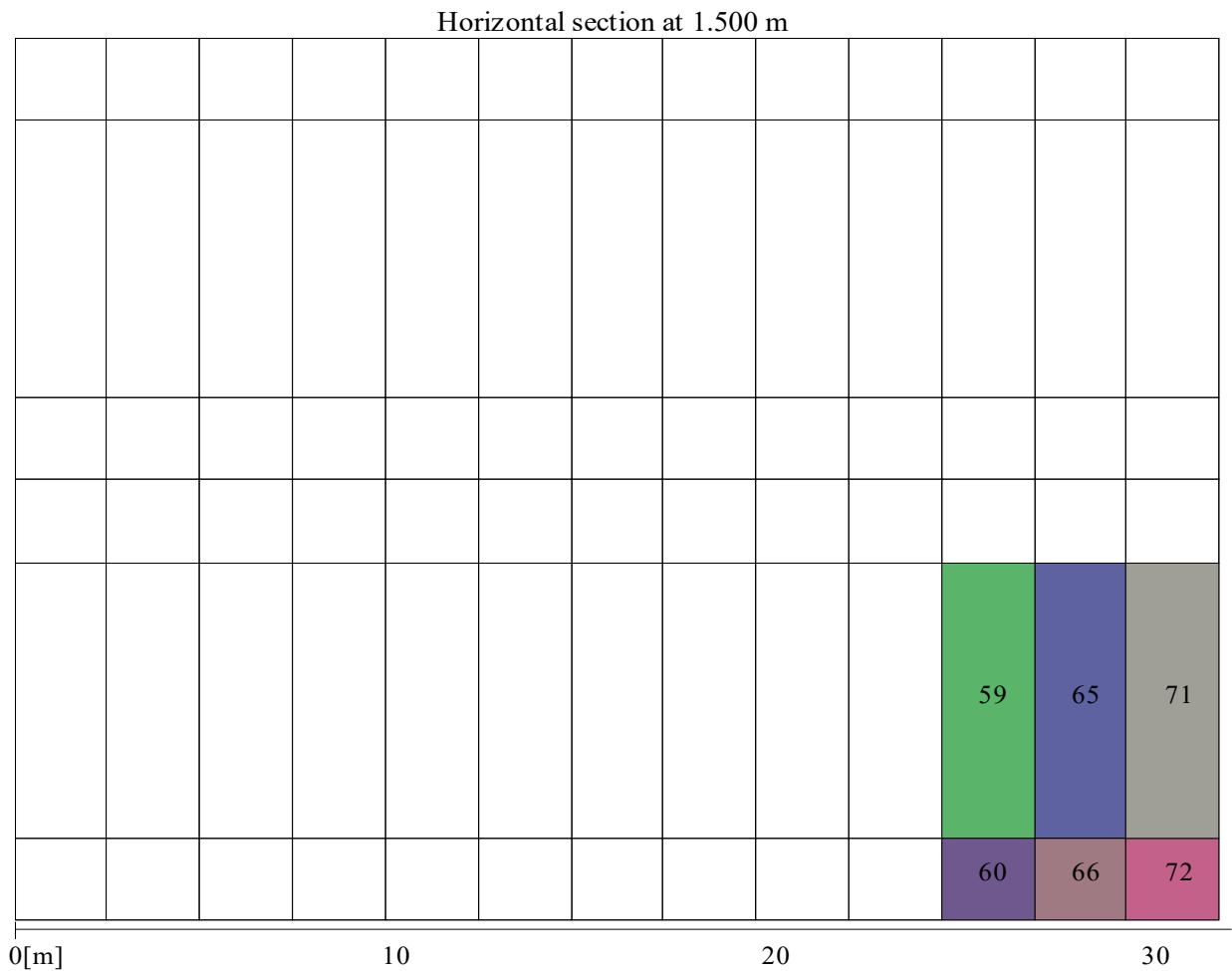
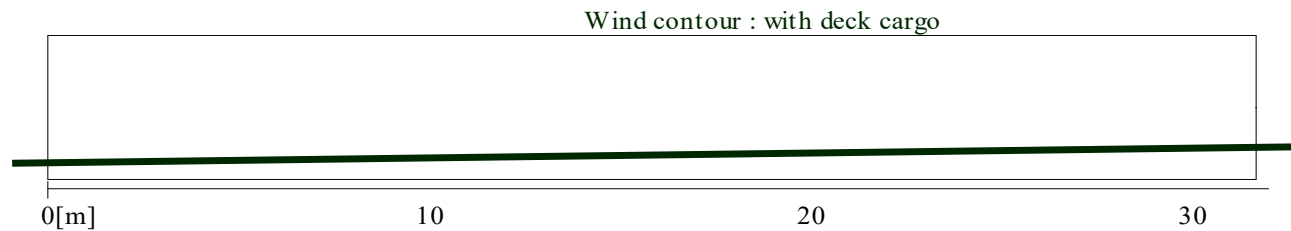


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	Fore SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m

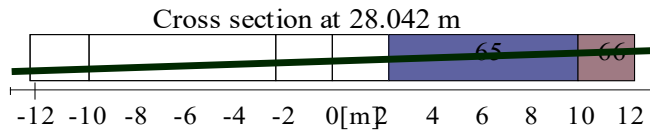


FLOODABILITY AND DAMAGE STABILITY
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:15:26

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

Damage case	Fore SB
Stage of flooding	100%
Intact displacement	455.420 ton
Intact VCG	2.295 m
Intact LCG	15.850 m
Intact TCG	-0.000 m



SUMMARY OF DAMAGE STABILITY

FLOODABILITY AND DAMAGE STABILITY

pontoon 31.69x24.38x1.98m

01 Mar 2024 18:16:17

Loading condition : Pontoon with equipment & 1932 passengers (max passengers)

Loading condition 'Pontoon with equipment & 1932 passengers (max passengers)' complies with all calculated damage cases

Stage	Damage case: AFT Center		complies	Criterion PS	Value PS	Criterion SB	Value SB	Unit
100%	Draft: 0.799 m	Trim: -0.974 m	Angle: 0.00° SB					
meter	1 Distance between waterline and deck due to wind- and	passenger moment		0.1000	0.6919	0.1000	0.6919	
Stage	Damage case: AFT SB		complies	Criterion PS	Value PS	Criterion SB	Value SB	Unit
100%	Draft: 0.670 m	Trim: -0.374 m	Angle: 0.73° SB					
meter	1 Distance between waterline and deck due to wind- and	passenger moment		0.1000	0.9712	0.1000	0.9663	
Stage	Damage case: FORE Center		complies	Criterion PS	Value PS	Criterion SB	Value SB	Unit
100%	Draft: 0.799 m	Trim: 0.974 m	Angle: 0.00° SB					
meter	1 Distance between waterline and deck due to wind- and	passenger moment		0.1000	0.6918	0.1000	0.6918	
Stage	Damage case: Fore SB		complies	Criterion PS	Value PS	Criterion SB	Value SB	Unit
100%	Draft: 0.670 m	Trim: 0.374 m	Angle: 0.73° SB					
meter	1 Distance between waterline and deck due to wind- and	passenger moment		0.1000	0.9711	0.1000	0.9662	

FLOODABILITY AND DAMAGE STABILITY

pontoon 31.69x24.38x1.98m

01 Mar 2024 18:16:17

Loading condition : Pontoon with equipment & 1932 passengers to SB (or PS)

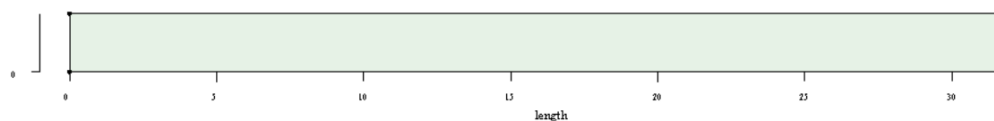
Loading condition 'Pontoon with equipment & 1932 passengers to SB (or PS)' complies with all calculated damage cases

Stage	Damage case: AFT Center		complies	Criterion PS	Value PS	Criterion SB	Value SB	Unit
100%	Draft: 0.799 m	Trim: -0.975 m	Angle: 1.06° SB					
meter	1 Distance between waterline and deck due to wind- and	passenger moment		0.1000	0.4726	0.1000	0.4689	
Stage	Damage case: AFT SB		complies	Criterion PS	Value PS	Criterion SB	Value SB	Unit
100%	Draft: 0.686 m	Trim: -0.445 m	Angle: 1.76° SB					
meter	1 Distance between waterline and deck due to wind- and	passenger moment		0.1000	0.7013	0.1000	0.6964	
Stage	Damage case: FORE Center		complies	Criterion PS	Value PS	Criterion SB	Value SB	Unit
100%	Draft: 0.798 m	Trim: 0.976 m	Angle: 1.06° SB					
meter	1 Distance between waterline and deck due to wind- and	passenger moment		0.1000	0.4725	0.1000	0.4688	
Stage	Damage case: Fore SB		complies	Criterion PS	Value PS	Criterion SB	Value SB	Unit
100%	Draft: 0.686 m	Trim: 0.446 m	Angle: 1.76° SB					
meter	1 Distance between waterline and deck due to wind- and	passenger moment		0.1000	0.7012	0.1000	0.6963	

6. WIND CALCULATIONS

CALCULATION OF WINDMOMENT pontoon 31.69x24.38x1.98m

01 Mar 2024 18:22:52



Wind data: 25.0 kg/m²

Contour: No deck cargo

Draft m	Displacement kg	Moment kgm	Heel.lev. m	Area m ²	Wind lev. m
0.300	231709	1318	0.006	53.254	0.990
0.350	270330	1279	0.005	51.669	0.990
0.400	308951	1240	0.004	50.084	0.990
0.450	347574	1200	0.003	48.499	0.990
0.500	386197	1161	0.003	46.915	0.990
0.550	424822	1122	0.003	45.330	0.990
0.600	463447	1083	0.002	43.745	0.990
0.650	502072	1043	0.002	42.160	0.990
0.700	540698	1004	0.002	40.575	0.990
0.750	579326	965	0.002	38.990	0.990
0.800	617954	926	0.001	37.405	0.990
0.850	656583	887	0.001	35.820	0.990
0.900	695212	847	0.001	34.235	0.990
0.950	733844	808	0.001	32.650	0.990
1.000	772474	769	0.001	31.065	0.990
1.050	811107	730	0.001	29.480	0.990
1.100	849740	690	0.001	27.895	0.990
1.150	888373	651	0.001	26.310	0.990
1.200	927007	612	0.001	24.725	0.990
1.250	965643	573	0.001	23.140	0.990
1.300	1004280	533	0.001	21.555	0.990
1.350	1042917	494	0.000	19.970	0.990
1.400	1081554	455	0.000	18.385	0.990
1.450	1120192	416	0.000	16.800	0.990
1.500	1158832	377	0.000	15.216	0.990
1.550	1197473	337	0.000	13.631	0.990
1.600	1236114	298	0.000	12.046	0.990
1.650	1274755	259	0.000	10.461	0.990
1.700	1313396	220	0.000	8.876	0.990

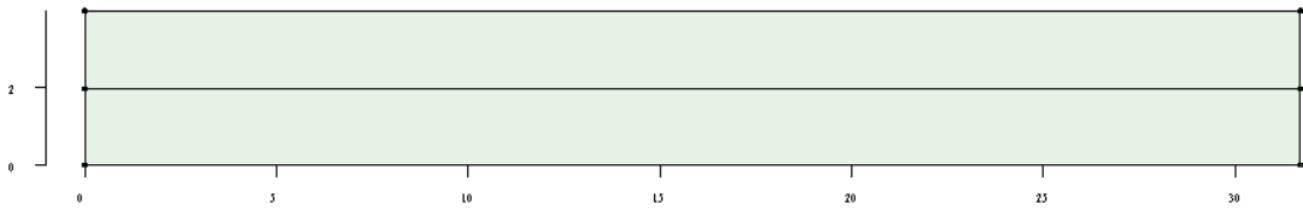
Pressure 25.00 kg/m²

Draft is from baseline.

Moment is calculated relative to the center of projected area underwater body.

CALCULATION OF WINDMOMENT pontoon 31.69x24.38x1.98m

01 Mar 2024 18:22:52



Wind data: 25.0 kg/m²

Contour: with deck cargo

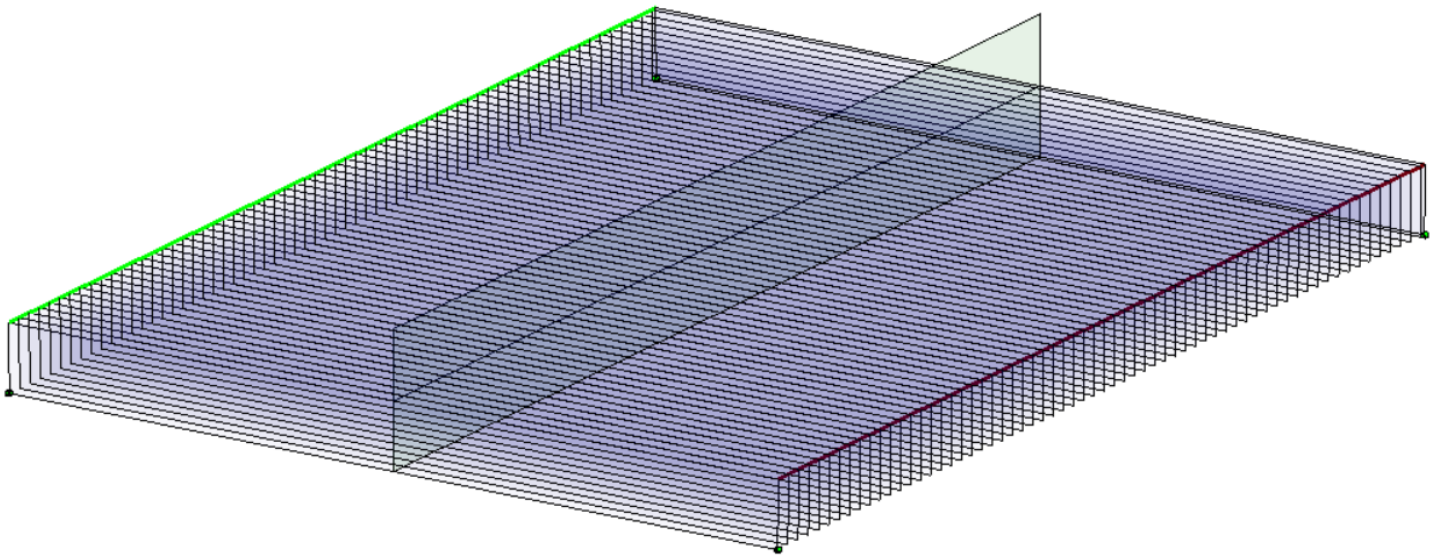
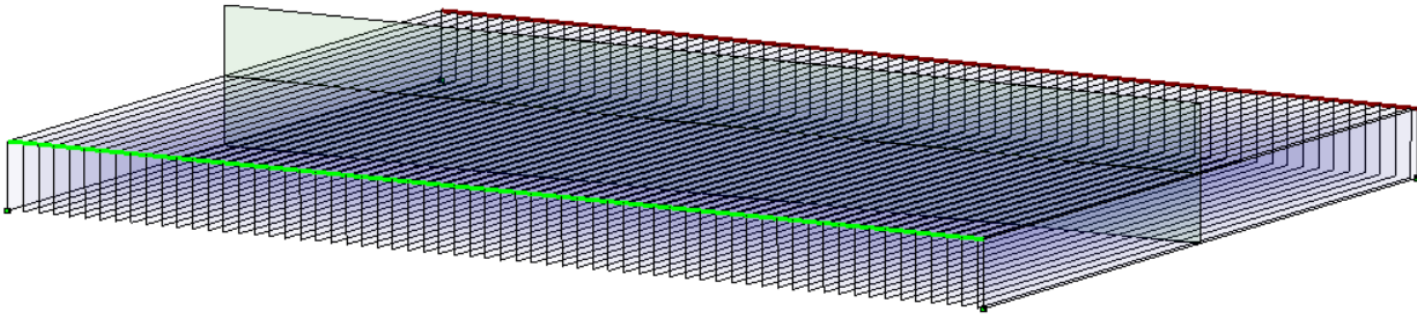
Draft m	Displacement kg	Moment kgm	Heel.lev. m	Area m ²	Wind lev. m
0.300	231709	5864	0.025	117.286	2.000
0.350	270330	5785	0.021	115.701	2.000
0.400	308951	5706	0.018	114.116	2.000
0.450	347574	5627	0.016	112.531	2.000
0.500	386197	5547	0.014	110.946	2.000
0.550	424822	5468	0.013	109.362	2.000
0.600	463447	5389	0.012	107.777	2.000
0.650	502072	5310	0.011	106.192	2.000
0.700	540698	5230	0.010	104.607	2.000
0.750	579326	5151	0.009	103.022	2.000
0.800	617954	5072	0.008	101.437	2.000
0.850	656583	4993	0.008	99.852	2.000
0.900	695212	4913	0.007	98.267	2.000
0.950	733844	4834	0.007	96.682	2.000
1.000	772474	4755	0.006	95.097	2.000
1.050	811107	4676	0.006	93.512	2.000
1.100	849740	4596	0.005	91.927	2.000
1.150	888373	4517	0.005	90.342	2.000
1.200	927007	4438	0.005	88.757	2.000
1.250	965643	4359	0.005	87.172	2.000
1.300	1004280	4279	0.004	85.587	2.000
1.350	1042917	4200	0.004	84.002	2.000
1.400	1081554	4121	0.004	82.417	2.000
1.450	1120192	4042	0.004	80.832	2.000
1.500	1158832	3962	0.003	79.247	2.000
1.550	1197473	3883	0.003	77.663	2.000
1.600	1236114	3804	0.003	76.078	2.000
1.650	1274755	3725	0.003	74.493	2.000
1.700	1313396	3645	0.003	72.908	2.000

Pressure 25.00 kg/m²

Draft is from baseline.

Moment is calculated relative to the center of projected area underwater body.

7. INPUT DATA HULLFORM



MAIN DIMENSIONS
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:25:54

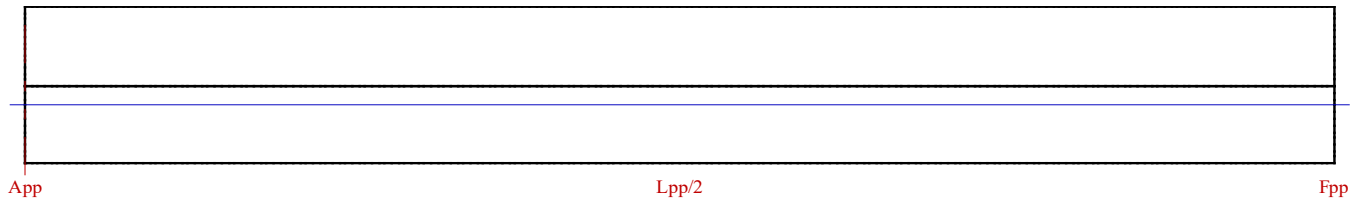
General particulars and main dimensions

Project name : pontoon 31.69x24.38x1.98m

Length between perpendiculars	:	31.690 m
Waterline length	:	31.690 m
Length overall	:	31.690 m
Moulded breadth	:	24.380 m
Design draft	:	1.500 m
Moulded depth	:	1.980 m
Appendage coefficient	:	1.0000
Mean shell plate thickness	:	0.0000 m
Type of midship section	:	Chine

The vessel is symmetrical.

The vessel has no more added hullforms.



0[m]
Legend
—Perpendiculars
—Water line
—Mark lines

10

20

30

Main dimensions

Length perpendiculars	31.690m
Moulded breadth	24.380m
Moulded depth	1.980m
Design draft	1.500m

LIST OF INPUT ORDINATES
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:26:29

Symmetrical main hull form

Ordinate 0.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 0.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 1.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 1.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 2.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 2.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 3.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 3.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

LIST OF INPUT ORDINATES
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:26:29

Symmetrical main hullform

Ordinate 4.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 4.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 5.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 5.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 6.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 6.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 7.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 7.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

LIST OF INPUT ORDINATES
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:26:29

Symmetrical main hullform

Ordinate 8.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 8.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 9.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 9.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 10.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 10.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 11.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 11.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

LIST OF INPUT ORDINATES
pontoon 31.69x24.38x1.98m

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Symmetrical main hullform

Ordinate 12.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 12.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 13.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 13.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 14.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 14.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 15.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 15.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

LIST OF INPUT ORDINATES
pontoon 31.69x24.38x1.98m

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Symmetrical main hullform

Ordinate 16.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 16.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 17.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 17.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 18.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 18.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 19.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 19.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

LIST OF INPUT ORDINATES
pontoon 31.69x24.38x1.98m

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Symmetrical main hullform

Ordinate 20.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 20.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 21.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 21.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 22.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 22.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 23.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 23.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

LIST OF INPUT ORDINATES
pontoon 31.69x24.38x1.98m

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Symmetrical main hullform

Ordinate 24.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 24.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 25.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 25.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 26.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 26.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 27.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 27.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

LIST OF INPUT ORDINATES
pontoon 31.69x24.38x1.98m

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Symmetrical main hullform

Ordinate 28.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 28.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 29.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 29.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 30.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 30.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 31.000

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

Ordinate 31.500

Breadth	Height
0.000	0.000
0.000	1.980

Breadth	Height
12.182 K	0.000

Breadth	Height
12.192 K	1.980

LIST OF INPUT ORDINATES
pontoon 31.69x24.38x1.98m

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Symmetrical main hullform

Ordinate 31.699

Breadth	Height	Breadth	Height	Breadth	Height
0.000	0.000	12.182 K	0.000	12.192 K	1.980
0.000	1.980				

Remark : The character K with a coordinate indicates a knuckle.

8. INPUT DATA COMPARTMENTS

COMPARTMENT LAYOUT pontoon 31.69x24.38x1.98m

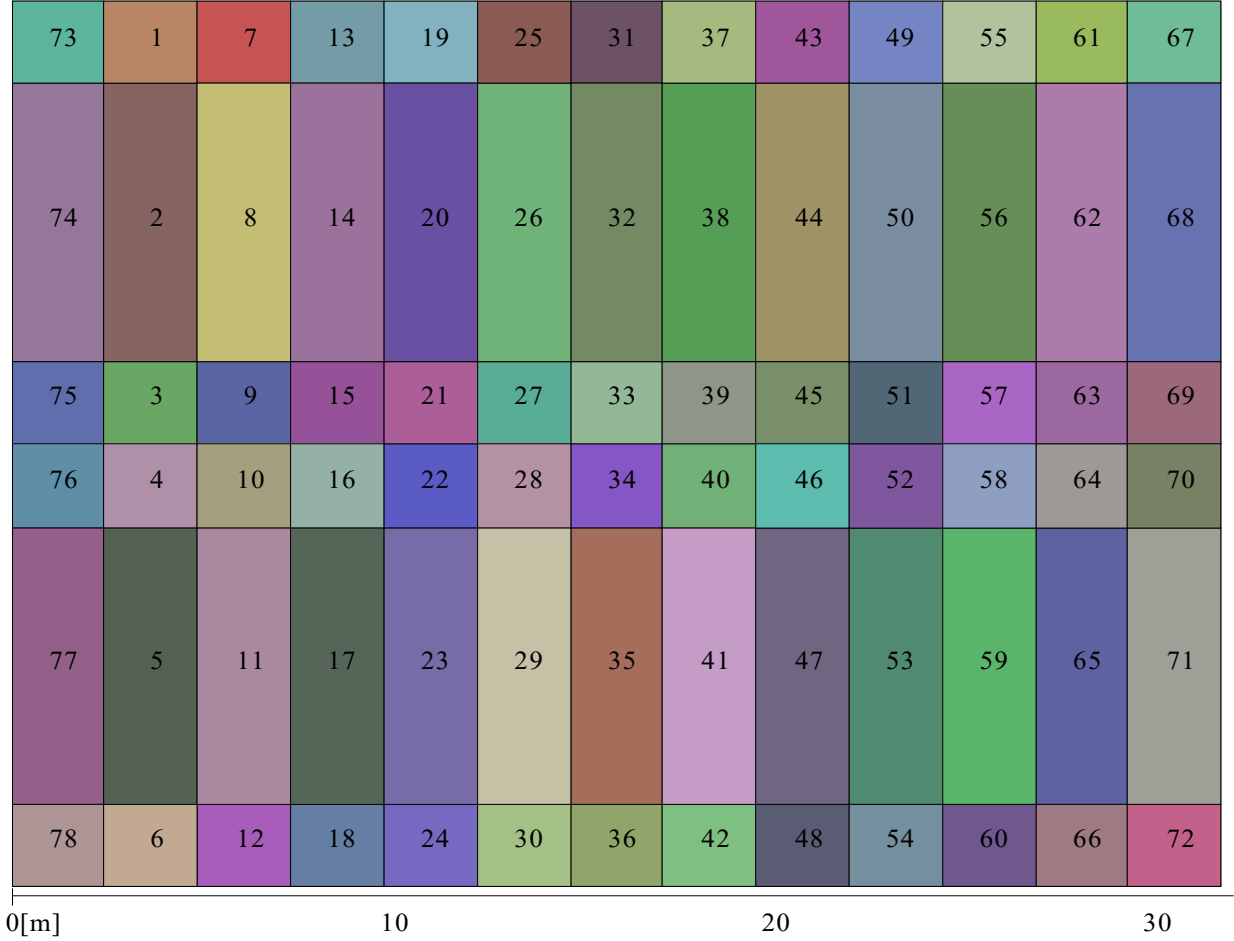
01 Mar 2024 18:27:51

1 New compartment (198)	2 New compartment (198) A
3 New compartment (198) A	4 New compartment (198) A
5 New compartment (198) A A	6 New compartment (198) A A A
7 New compartment (198) A	8 New compartment (198) A A
9 New compartment (198) A A	10 New compartment (198) A A
11 New compartment (198) A A A	12 ew compartment (198) A A AA
13 New compartment (198) A A A	14 ew compartment (198) A A A B
15 ew compartment (198) A A A A	16 New compartment (198) A A A A
17 ew compartment (198) A A A AA	18 w compartment (198) A A A AAA
19 New compartment (198) A A A A	20 ew compartment (198) A A A A D
21 ew compartment (198) A A A A C	22 ew compartment (198) A A A A B
23 w compartment (198) A A A A BA	24 compartment (198) A A A A BAA
25 ew compartment (198) A A A A A	26 w compartment (198) A A A A AD
27 w compartment (198) A A A A AC	28 w compartment (198) A A A A AB
29 compartment (198) A A A A ABA	30 compartment (198) A A A A ABAA
31 w compartment (198) A A A A AA	32 compartment (198) A A A A AAD
33 compartment (198) A A A A AAC	34 compartment (198) A A A A AAB
35 compartment (198) A A A A AABA	36 ompartment (198) A A A A AABAA
37 compartment (198) A A A A AAA	38 compartment (198) A A A A AAAD
39 compartment (198) A A A A AAAC	40 compartment (198) A A A A AAAB
41 ompartment (198) A A A A AAABA	42 mpartment (198) A A A A AAABAA
43 compartment (198) A A A A AAAA	44 ompartment (198) A A A A AAAAD
45 ompartment (198) A A A A AAAAC	46 ompartment (198) A A A A AAAAB
47 mpartment (198) A A A A AAAABA	48 partment (198) A A A A AAAABAA
49 ompartment (198) A A A A AAAAA	50 mpartment (198) A A A A AAAAAD
51 mpartment (198) A A A A AAAAAC	52 mpartment (198) A A A A AAAAAB
53 partment (198) A A A A AAAAABA	54 artment (198) A A A A AAAAABAA
55 mpartment (198) A A A A AAAAAAA	56 partment (198) A A A A AAAAAAD
57 partment (198) A A A A AAAAAAC	58 partment (198) A A A A AAAAAAB
59 artment (198) A A A A AAAAAABA	60 rtment (198) A A A A AAAAAABAA
61 partment (198) A A A A AAAAAAA	62 artment (198) A A A A AAAAAAAAD
63 artment (198) A A A A AAAAAAAAC	64 artment (198) A A A A AAAAAAAAB
65 rtment (198) A A A A AAAAAAAABA	66 tment (198) A A A A AAAAAAAABAA
67 artment (198) A A A A AAAAAAA	68 rtment (198) A A A A AAAAAAAAC
69 rtment (198) A A A A AAAAAAAAB	70 rtment (198) A A A A AAAAAAA
71 tment (198) A A A A AAAAAAA	72 ment (198) A A A A AAAAAAA
73 New compartment (199)	74 New compartment (199) A
75 New compartment (199) A	76 New compartment (199) A
77 New compartment (199) A A	78 New compartment (199) A A A

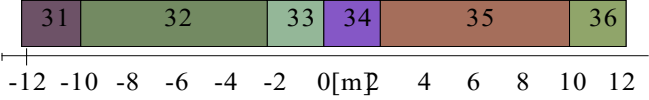
COMPARTMENT LAYOUT
pontoon 31.69x24.38x1.98m

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Horizontal section at 1.500 m



Cross section at 15.850 m



SUMMARY OF MAXIMUM TANK VOLUMES
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:28:31

Subtotals for group : -

Compartment	Volume	Weight	VCG	LCG	TCG	Mom.In.T	Density
New compartment (198)	10.795	10.795	0.991	3.657	-11.047	2.39	1.0000
New compartment (198) A	36.062	36.062	0.990	3.658	-6.096	88.14	1.0000
New compartment (198) A	10.819	10.819	0.990	3.657	-1.143	2.38	1.0000
New compartment (198) A	10.819	10.819	0.990	3.657	1.143	2.38	1.0000
New compartment (198) A A	36.062	36.062	0.990	3.658	6.096	88.14	1.0000
New compartment (198) A A A	10.795	10.795	0.991	3.657	11.047	2.39	1.0000
New compartment (198) A	10.791	10.791	0.991	6.096	-11.047	2.38	1.0000
New compartment (198) A A	36.048	36.048	0.990	6.096	-6.096	88.10	1.0000
New compartment (198) A A	10.814	10.814	0.990	6.096	-1.143	2.38	1.0000
New compartment (198) A A A	10.814	10.814	0.990	6.096	1.143	2.38	1.0000
New compartment (198) A A A A	36.048	36.048	0.990	6.096	6.096	88.10	1.0000
ew compartment (198) A A AA	10.791	10.791	0.991	6.096	11.047	2.38	1.0000
New compartment (198) A A A	10.795	10.795	0.991	8.534	-11.046	2.39	1.0000
ew compartment (198) A A B	36.062	36.062	0.990	8.535	-6.096	88.14	1.0000
ew compartment (198) A A A A	10.819	10.819	0.990	8.535	-1.143	2.38	1.0000
New compartment (198) A A A A	10.819	10.819	0.990	8.535	1.143	2.38	1.0000
ew compartment (198) A A AA	36.062	36.062	0.990	8.535	6.096	88.14	1.0000
w compartment (198) A A AAA	10.795	10.795	0.991	8.534	11.046	2.39	1.0000
New compartment (198) A A A A	10.791	10.791	0.991	10.973	-11.047	2.39	1.0000
ew compartment (198) A A A D	36.048	36.048	0.990	10.973	-6.096	88.10	1.0000
ew compartment (198) A A A C	10.814	10.814	0.990	10.973	-1.143	2.38	1.0000
ew compartment (198) A A A B	10.814	10.814	0.990	10.973	1.143	2.38	1.0000
w compartment (198) A A A BA	36.048	36.048	0.990	10.973	6.096	88.10	1.0000
compartment (198) A A A BAA	10.791	10.791	0.991	10.973	11.047	2.39	1.0000
ew compartment (198) A A A A	10.791	10.791	0.991	13.411	-11.047	2.39	1.0000
w compartment (198) A A A AD	36.048	36.048	0.990	13.411	-6.096	88.10	1.0000
w compartment (198) A A A AC	10.814	10.814	0.990	13.411	-1.143	2.38	1.0000
w compartment (198) A A A AB	10.814	10.814	0.990	13.411	1.143	2.38	1.0000
compartment (198) A A A ABA	36.048	36.048	0.990	13.411	6.096	88.10	1.0000
compartment (198) A A A ABAA	10.791	10.791	0.991	13.411	11.047	2.39	1.0000
w compartment (198) A A A AA	10.795	10.795	0.991	15.850	-11.047	2.38	1.0000
compartment (198) A A A AAD	36.062	36.062	0.990	15.850	-6.096	88.14	1.0000
compartment (198) A A A AAC	10.819	10.819	0.990	15.849	-1.143	2.38	1.0000
compartment (198) A A A AAB	10.819	10.819	0.990	15.849	1.143	2.38	1.0000
compartment (198) A A A AABA	36.062	36.062	0.990	15.850	6.096	88.14	1.0000
ompartment (198) A A A AABAA	10.795	10.795	0.991	15.850	11.047	2.38	1.0000
compartment (198) A A A AAA	10.791	10.791	0.991	18.288	-11.047	2.39	1.0000
compartment (198) A A A AAD	36.048	36.048	0.990	18.288	-6.096	88.10	1.0000
compartment (198) A A A AAAC	10.814	10.814	0.990	18.288	-1.143	2.38	1.0000
compartment (198) A A A AAAB	10.814	10.814	0.990	18.288	1.143	2.38	1.0000
ompartment (198) A A A AAABA	36.048	36.048	0.990	18.288	6.096	88.10	1.0000
mpartment (198) A A A AAABAA	10.791	10.791	0.991	18.288	11.047	2.39	1.0000
compartment (198) A A A AAAA	10.795	10.795	0.991	20.727	-11.047	2.39	1.0000
ompartment (198) A A A AAAAD	36.062	36.062	0.990	20.727	-6.096	88.14	1.0000
ompartment (198) A A A AAAAC	10.819	10.819	0.990	20.726	-1.143	2.38	1.0000
ompartment (198) A A A AAAAB	10.819	10.819	0.990	20.726	1.143	2.38	1.0000
mpartment (198) A A A AAAABA	36.062	36.062	0.990	20.727	6.096	88.14	1.0000
partment (198) A A A AAAABAA	10.795	10.795	0.991	20.727	11.047	2.39	1.0000
ompartment (198) A A A AAAA	10.791	10.791	0.991	23.165	-11.046	2.39	1.0000
mpartment (198) A A A AAAAAD	36.048	36.048	0.990	23.165	-6.096	88.10	1.0000

SUMMARY OF MAXIMUM TANK VOLUMES
pontoon 31.69x24.38x1.98m

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Subtotals for group : -

Compartment	Volume	Weight	VCG	LCG	TCG	Mom.In.T	Density
mpartment (198) A A A AAAAAC	10.814	10.814	0.990	23.165	-1.143	2.38	1.0000
mpartment (198) A A A AAAAAB	10.814	10.814	0.990	23.165	1.143	2.38	1.0000
partment (198) A A A AAAAABA	36.048	36.048	0.990	23.165	6.096	88.10	1.0000
artment (198) A A A AAAAABAA	10.791	10.791	0.991	23.165	11.046	2.39	1.0000
mpartment (198) A A A AAAAA	10.791	10.791	0.991	25.603	-11.047	2.39	1.0000
partment (198) A A A AAAAAAD	36.048	36.048	0.990	25.603	-6.096	88.10	1.0000
partment (198) A A A AAAAAAC	10.814	10.814	0.990	25.603	-1.143	2.38	1.0000
partment (198) A A A AAAAAAB	10.814	10.814	0.990	25.603	1.143	2.38	1.0000
artment (198) A A A AAAAABA	36.048	36.048	0.990	25.603	6.096	88.10	1.0000
rtment (198) A A A AAAAABAA	10.791	10.791	0.991	25.603	11.047	2.39	1.0000
partment (198) A A A AAAAAAA	10.795	10.795	0.991	28.042	-11.046	2.39	1.0000
artment (198) A A A AAAAAAD	36.062	36.062	0.990	28.042	-6.096	88.14	1.0000
artment (198) A A A AAAAAAC	10.819	10.819	0.990	28.042	-1.143	2.38	1.0000
artment (198) A A A AAAAAAB	10.819	10.819	0.990	28.042	1.143	2.38	1.0000
rtment (198) A A A AAAAABAA	36.062	36.062	0.990	28.042	6.096	88.14	1.0000
tment (198) A A A AAAAAABAA	10.795	10.795	0.991	28.042	11.046	2.39	1.0000
artment (198) A A A AAAAAAA	10.791	10.791	0.991	30.480	-11.047	2.38	1.0000
rtment (198) A A A AAAAAAC	36.048	36.048	0.990	30.480	-6.096	88.10	1.0000
rtment (198) A A A AAAAAAB	10.814	10.814	0.990	30.480	-1.143	2.38	1.0000
rtment (198) A A A AAAAAAA	10.814	10.814	0.990	30.480	1.143	2.38	1.0000
tment (198) A A A AAAAAABAA	36.048	36.048	0.990	30.480	6.096	88.10	1.0000
ment (198) A A A AAAAAABAA	10.791	10.791	0.991	30.480	11.047	2.38	1.0000
New compartment (199)	10.791	10.791	0.991	1.219	-11.047	2.38	1.0000
New compartment (199) A	36.048	36.048	0.990	1.219	-6.096	88.10	1.0000
New compartment (199) A	10.814	10.814	0.990	1.219	-1.143	2.38	1.0000
New compartment (199) A	10.814	10.814	0.990	1.219	1.143	2.38	1.0000
New compartment (199) A A	36.048	36.048	0.990	1.219	6.096	88.10	1.0000
New compartment (199) A A A	10.791	10.791	0.991	1.219	11.047	2.38	1.0000

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Compartment: New compartment (198)||||

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #196

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 2.438 m.

Fwd bulkhead 4.877 m.

PS bulkhead -∞ m.

SB bulkhead -9.906 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: New compartment (198)||||A

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #261

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 2.438 m.

Fwd bulkhead 4.877 m.

PS bulkhead -9.906 m.

SB bulkhead -2.286 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: New compartment (198)||||A

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #235

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 2.438 m.

Fwd bulkhead 4.877 m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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PS bulkhead -2.286 m.
Lower bulkhead $-\infty$ m.

SB bulkhead 0.000 m.
Upper bulkhead ∞ m.

Compartment: New compartment (198)||A|

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #209

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 2.438 m.

Fwd bulkhead 4.877 m.

PS bulkhead 0.000 m.

SB bulkhead 2.286 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: New compartment (198)||A|A|

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #222

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 2.438 m.

Fwd bulkhead 4.877 m.

PS bulkhead 2.286 m.

SB bulkhead 9.906 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: New compartment (198)||A|A|A|

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

pontoon 31.69x24.38x1.98m

Upper bulkhead ∞ m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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Compartment: New compartment (198)|A|||A

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #236

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 4.877 m.

Fwd bulkhead 7.315 m.

PS bulkhead -2.286 m.

SB bulkhead 0.000 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: New compartment (198)|A||A|

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #210

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 4.877 m.

Fwd bulkhead 7.315 m.

PS bulkhead 0.000 m.

SB bulkhead 2.286 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: New compartment (198)|A||A|A

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #223

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 4.877 m.

Fwd bulkhead 7.315 m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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PS bulkhead 2.286 m.
Lower bulkhead $-\infty$ m.

SB bulkhead 9.906 m.
Upper bulkhead ∞ m.

Compartment: **ew compartment (198)|A||A|AA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #249**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 4.877 m.

Fwd bulkhead 7.315 m.

PS bulkhead 9.906 m.

SB bulkhead ∞ m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **New compartment (198)|A|A|||**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #199**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 7.315 m.

Fwd bulkhead 9.754 m.

PS bulkhead $-\infty$ m.

SB bulkhead -9.906 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **ew compartment (198)|A|A|||B**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Subcompartment: Subcomp #263

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 7.315 m.

PS bulkhead -9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 9.754 m.

SB bulkhead -2.286 m.

Upper bulkhead ∞ m.

Compartment: ew compartment (198)|A|A||A

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #237

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 7.315 m.

PS bulkhead -2.286 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 9.754 m.

SB bulkhead 0.000 m.

Upper bulkhead ∞ m.

Compartment: New compartment (198)|A|A||A

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #211

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 7.315 m.

PS bulkhead 0.000 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 9.754 m.

SB bulkhead 2.286 m.

Upper bulkhead ∞ m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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Compartment: **ew compartment (198)|A|A|AA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #224**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 7.315 m.

Fwd bulkhead 9.754 m.

PS bulkhead 2.286 m.

SB bulkhead 9.906 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **w compartment (198)|A|A|AAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #250**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 7.315 m.

Fwd bulkhead 9.754 m.

PS bulkhead 9.906 m.

SB bulkhead ∞ m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **New compartment (198)|A|A|A|**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #200**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 9.754 m.

Fwd bulkhead 12.192 m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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PS bulkhead $-\infty$ m.
Lower bulkhead $-\infty$ m.

SB bulkhead -9.906 m.
Upper bulkhead ∞ m.

Compartment: **ew compartment (198)|A|A|A|D**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #264**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 9.754 m.

Fwd bulkhead 12.192 m.

PS bulkhead -9.906 m.

SB bulkhead -2.286 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **ew compartment (198)|A|A|A|C**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #238**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 9.754 m.

Fwd bulkhead 12.192 m.

PS bulkhead -2.286 m.

SB bulkhead 0.000 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **ew compartment (198)|A|A|A|B**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Subcompartment: Subcomp #212

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 9.754 m.

PS bulkhead 0.000 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 12.192 m.

SB bulkhead 2.286 m.

Upper bulkhead ∞ m.

Compartment: w compartment (198)|A|A|A|BA

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #225

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 9.754 m.

PS bulkhead 2.286 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 12.192 m.

SB bulkhead 9.906 m.

Upper bulkhead ∞ m.

Compartment: compartment (198)|A|A|A|BAA

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #251

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 9.754 m.

PS bulkhead 9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 12.192 m.

SB bulkhead ∞ m.

Upper bulkhead ∞ m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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Compartment: **ew compartment (198)|A|A|A|A**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #201**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 12.192 m.

Fwd bulkhead 14.630 m.

PS bulkhead -∞ m.

SB bulkhead -9.906 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **w compartment (198)|A|A|A|AD**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #265**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 12.192 m.

Fwd bulkhead 14.630 m.

PS bulkhead -9.906 m.

SB bulkhead -2.286 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **w compartment (198)|A|A|A|AC**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #239**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 12.192 m.

Fwd bulkhead 14.630 m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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PS bulkhead -2.286 m.
Lower bulkhead $-\infty$ m.

SB bulkhead 0.000 m.
Upper bulkhead ∞ m.

Compartment: **w compartment (198)|A|A|A|AB**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #213**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 12.192 m.

Fwd bulkhead 14.630 m.

PS bulkhead 0.000 m.

SB bulkhead 2.286 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **compartment (198)|A|A|A|ABA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #226**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 12.192 m.

Fwd bulkhead 14.630 m.

PS bulkhead 2.286 m.

SB bulkhead 9.906 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **compartment (198)|A|A|A|ABAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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Subcompartment: Subcomp #252

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 12.192 m.

PS bulkhead 9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 14.630 m.

SB bulkhead ∞ m.

Upper bulkhead ∞ m.

Compartment: w compartment (198)|A|A|A|AA

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #202

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 14.630 m.

PS bulkhead $-\infty$ m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 17.069 m.

SB bulkhead -9.906 m.

Upper bulkhead ∞ m.

Compartment: compartment (198)|A|A|A|AAD

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #266

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 14.630 m.

PS bulkhead -9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 17.069 m.

SB bulkhead -2.286 m.

Upper bulkhead ∞ m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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Compartment: **compartment (198)|A|A|A|AAC**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #240**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 14.630 m.

Fwd bulkhead 17.069 m.

PS bulkhead -2.286 m.

SB bulkhead 0.000 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **compartment (198)|A|A|A|AAB**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #214**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 14.630 m.

Fwd bulkhead 17.069 m.

PS bulkhead 0.000 m.

SB bulkhead 2.286 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **compartment (198)|A|A|A|AABA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #227**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 14.630 m.

Fwd bulkhead 17.069 m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

PS bulkhead 2.286 m.
Lower bulkhead $-\infty$ m.

SB bulkhead 9.906 m.
Upper bulkhead ∞ m.

Compartment: **ompartment (198)|A|A|A|AABAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #253**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 14.630 m.

Fwd bulkhead 17.069 m.

PS bulkhead 9.906 m.

SB bulkhead ∞ m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **compartment (198)|A|A|A|AAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #203**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 17.069 m.

Fwd bulkhead 19.507 m.

PS bulkhead $-\infty$ m.

SB bulkhead -9.906 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **compartment (198)|A|A|A|AAAD**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Subcompartment: Subcomp #267

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 17.069 m.

PS bulkhead -9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 19.507 m.

SB bulkhead -2.286 m.

Upper bulkhead ∞ m.

Compartment: compartment (198)|A|A|A|AAAC

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #241

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 17.069 m.

PS bulkhead -2.286 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 19.507 m.

SB bulkhead 0.000 m.

Upper bulkhead ∞ m.

Compartment: compartment (198)|A|A|A|AAAB

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #215

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 17.069 m.

PS bulkhead 0.000 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 19.507 m.

SB bulkhead 2.286 m.

Upper bulkhead ∞ m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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Compartment: **ompartment (198)|A|A|A|AAABA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #228**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 17.069 m.

Fwd bulkhead 19.507 m.

PS bulkhead 2.286 m.

SB bulkhead 9.906 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **mpartment (198)|A|A|A|AAABAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #254**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 17.069 m.

Fwd bulkhead 19.507 m.

PS bulkhead 9.906 m.

SB bulkhead ∞ m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **compartment (198)|A|A|A|AAAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #204**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 19.507 m.

Fwd bulkhead 21.946 m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

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PS bulkhead $-\infty$ m.
Lower bulkhead $-\infty$ m.

SB bulkhead -9.906 m.
Upper bulkhead ∞ m.

Compartment: **ompartment (198)|A|A|A|AAAAD**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #268**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 19.507 m.

Fwd bulkhead 21.946 m.

PS bulkhead -9.906 m.

SB bulkhead -2.286 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **ompartment (198)|A|A|A|AAAAC**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #242**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 19.507 m.

Fwd bulkhead 21.946 m.

PS bulkhead -2.286 m.

SB bulkhead 0.000 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **ompartment (198)|A|A|A|AAAAB**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Subcompartment: Subcomp #216

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 19.507 m.

PS bulkhead 0.000 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 21.946 m.

SB bulkhead 2.286 m.

Upper bulkhead ∞ m.

Compartment: mpartment (198)|A|A|A|AAAABA

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #229

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 19.507 m.

PS bulkhead 2.286 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 21.946 m.

SB bulkhead 9.906 m.

Upper bulkhead ∞ m.

Compartment: partment (198)|A|A|A|AAAABAA

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #255

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 19.507 m.

PS bulkhead 9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 21.946 m.

SB bulkhead ∞ m.

Upper bulkhead ∞ m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Compartment: **ompartment (198)|A|A|A|AAAAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #205**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 21.946 m.

Fwd bulkhead 24.384 m.

PS bulkhead -∞ m.

SB bulkhead -9.906 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **mpartment (198)|A|A|A|AAAAAD**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #269**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 21.946 m.

Fwd bulkhead 24.384 m.

PS bulkhead -9.906 m.

SB bulkhead -2.286 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **mpartment (198)|A|A|A|AAAAAC**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #243**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 21.946 m.

Fwd bulkhead 24.384 m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

PS bulkhead -2.286 m.
Lower bulkhead $-\infty$ m.

SB bulkhead 0.000 m.
Upper bulkhead ∞ m.

Compartment: **mpartment (198)|A|A|A|AAAAAB**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #217**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 21.946 m.

Fwd bulkhead 24.384 m.

PS bulkhead 0.000 m.

SB bulkhead 2.286 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **partment (198)|A|A|A|AAAAABA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #230**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 21.946 m.

Fwd bulkhead 24.384 m.

PS bulkhead 2.286 m.

SB bulkhead 9.906 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **artment (198)|A|A|A|AAAAABAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Subcompartment: Subcomp #256

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 21.946 m.

PS bulkhead 9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 24.384 m.

SB bulkhead ∞ m.

Upper bulkhead ∞ m.

Compartment: mpartment (198)|A|A|A|AAAAAA

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #206

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 24.384 m.

PS bulkhead $-\infty$ m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 26.822 m.

SB bulkhead -9.906 m.

Upper bulkhead ∞ m.

Compartment: partment (198)|A|A|A|AAAAAAD

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #270

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 24.384 m.

PS bulkhead -9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 26.822 m.

SB bulkhead -2.286 m.

Upper bulkhead ∞ m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Compartment: **partment (198)|A|A|A|AAAAAAC**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #244**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 24.384 m.

Fwd bulkhead 26.822 m.

PS bulkhead -2.286 m.

SB bulkhead 0.000 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **partment (198)|A|A|A|AAAAAAB**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #218**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 24.384 m.

Fwd bulkhead 26.822 m.

PS bulkhead 0.000 m.

SB bulkhead 2.286 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **artment (198)|A|A|A|AAAAAABA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #231**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 24.384 m.

Fwd bulkhead 26.822 m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

PS bulkhead 2.286 m.
Lower bulkhead -∞ m.

SB bulkhead 9.906 m.
Upper bulkhead ∞ m.

Compartment: **rtment (198)|A|A|A|AAAAAABAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #257**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 24.384 m.

Fwd bulkhead 26.822 m.

PS bulkhead 9.906 m.

SB bulkhead ∞ m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **partment (198)|A|A|A|AAAAAAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #207**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 26.822 m.

Fwd bulkhead 29.261 m.

PS bulkhead -∞ m.

SB bulkhead -9.906 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **artment (198)|A|A|A|AAAAAAAD**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Subcompartment: Subcomp #271

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 26.822 m.

PS bulkhead -9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 29.261 m.

SB bulkhead -2.286 m.

Upper bulkhead ∞ m.

Compartment: artment (198)|A|A|A|AAAAAAAC

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #245

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 26.822 m.

PS bulkhead -2.286 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 29.261 m.

SB bulkhead 0.000 m.

Upper bulkhead ∞ m.

Compartment: artment (198)|A|A|A|AAAAAAAB

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #219

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 26.822 m.

PS bulkhead 0.000 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 29.261 m.

SB bulkhead 2.286 m.

Upper bulkhead ∞ m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Compartment: **rtment (198)|A|A|A|AAAAAABA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #232**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 26.822 m.

Fwd bulkhead 29.261 m.

PS bulkhead 2.286 m.

SB bulkhead 9.906 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **tment (198)|A|A|A|AAAAAABAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #258**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 26.822 m.

Fwd bulkhead 29.261 m.

PS bulkhead 9.906 m.

SB bulkhead ∞ m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: **artment (198)|A|A|A|AAAAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #208**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 29.261 m.

Fwd bulkhead ∞ m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

PS bulkhead $-\infty$ m.
Lower bulkhead $-\infty$ m.

SB bulkhead -9.906 m.
Upper bulkhead ∞ m.

Compartment: **rtment (198)|A|A|A|AAAAAAAAAC**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #272**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 29.261 m.

Fwd bulkhead ∞ m.

PS bulkhead -9.906 m.

SB bulkhead -2.286 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **rtment (198)|A|A|A|AAAAAAAAAB**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: **Subcomp #246**

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead 29.261 m.

Fwd bulkhead ∞ m.

PS bulkhead -2.286 m.

SB bulkhead 0.000 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: **rtment (198)|A|A|A|AAAAAAAAAA**

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Subcompartment: Subcomp #220

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 29.261 m.

PS bulkhead 0.000 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead ∞ m.

SB bulkhead 2.286 m.

Upper bulkhead ∞ m.

Compartment: tment (198)|A|A|A|AAAAAAAAAAAA

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #233

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 29.261 m.

PS bulkhead 2.286 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead ∞ m.

SB bulkhead 9.906 m.

Upper bulkhead ∞ m.

Compartment: ment (198)|A|A|A|AAAAAAAAAAAA

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #259

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead 29.261 m.

PS bulkhead 9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead ∞ m.

SB bulkhead ∞ m.

Upper bulkhead ∞ m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Compartment: New compartment (199)|||

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #197

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead -∞ m.

Fwd bulkhead 2.438 m.

PS bulkhead -∞ m.

SB bulkhead -9.906 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: New compartment (199)|||A

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #273

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead -∞ m.

Fwd bulkhead 2.438 m.

PS bulkhead -9.906 m.

SB bulkhead -2.286 m.

Lower bulkhead -∞ m.

Upper bulkhead ∞ m.

Compartment: New compartment (199)|||A

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #247

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead -∞ m.

Fwd bulkhead 2.438 m.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

PS bulkhead -2.286 m.
Lower bulkhead $-\infty$ m.

SB bulkhead 0.000 m.
Upper bulkhead ∞ m.

Compartment: New compartment (199)|A|

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #221

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead $-\infty$ m.

Fwd bulkhead 2.438 m.

PS bulkhead 0.000 m.

SB bulkhead 2.286 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: New compartment (199)|A|A|

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

Subcompartment: Subcomp #234

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Side: no specific side

Aft bulkhead $-\infty$ m.

Fwd bulkhead 2.438 m.

PS bulkhead 2.286 m.

SB bulkhead 9.906 m.

Lower bulkhead $-\infty$ m.

Upper bulkhead ∞ m.

Compartment: New compartment (199)|A|A|A

Last modification: 01 Mar 2024 18:27:43

Design density : 1.0000 ton/m³

Design weight group: -

Compartment is part of the watertight layout.

COMPARTMENT INPUT DATA
pontoon 31.69x24.38x1.98m

01 Mar 2024 18:29:23

Subcompartment: Subcomp #260

Permeability for tank sounding tables 0.980, for damage stability 0.950

Subcompartment is limited by the hullform.

Sign: positive

Aft bulkhead $-\infty$ m.

PS bulkhead 9.906 m.

Lower bulkhead $-\infty$ m.

Side: no specific side

Fwd bulkhead 2.438 m.

SB bulkhead ∞ m.

Upper bulkhead ∞ m.

9. NR612 RULES HARBOUR EQUIPMENT

Parts of the NR612 regulations.

BUREAU VERITAS RULES FOR THE CLASSIFICATION OF HAROUR EQUIPMENT

NR612 - MARCH 2023

NR612 DT R01 MARCH 2023 takes precedence over previous revision.

The PDF electronic version of this document available at the Bureau Veritas Marine & Offshore website <https://marine-offshore.bureauveritas.com/> is the official version and shall prevail if there are any inconsistencies between the PDF version and any other available version.

These rules are provided within the scope of the Bureau Veritas Marine & Offshore General Conditions, enclosed at the end of Part A of NR467, Rules for the Classification of Steel Ships. The current version of these General Conditions is available at the Bureau Veritas Marine & Offshore website.

PART A CLASSIFICATION AND SURVEYS

PART B HULL AND STABILITY

PART C MACHINERY, SYSTEMS AND ELECTRICITY,

PART D ADDITIONAL REQUIREMENTS FOR NOTATIONS

REFERENCE DOCUMENT
NR612 DT R01 MARCH 2023

BUREAU VERITAS MARINE & OFFSHORE

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7.3 Intact stability

7.3.1 It is to be confirmed that, when account has been taken of the combined action of heeling moments defined in [7.2]:

- the residual safety clearance is not less than:
 - 0,30 m for weathertight apertures
 - 0,40 m for unprotected openings
- the residual freeboard value is at least 0,30 m
the residual freeboard may be reduced if it is proven that the requirements of [7.4] or [7.5], as the case may be, have been met.

The angle of list is not to exceed 10° and the base of the hull shall not emerge.

7.4 Intact stability in case of reduced residual freeboard - Harbour equipment not intended for passengers

7.4.1 If a reduced residual freeboard is taken into account, it is to be checked, for all operating conditions, that:

- a) After correction for the free surfaces of liquids, the metacentric height GM is not less than 0,15 m
- b) For list angles between 0° and 30°, there is a righting lever, in m, of at least:
 $h = 0,30 - 0,28 \varphi_n$
- c) The list angle does not exceed 10°
- d) The residual safety clearance value is, at least:
 - 0,30 m for weathertight openings
 - 0,40 m for unprotected openings
- e) The residual freeboard is at least 0,05 m
- f) For list angles between 0° and 30°, the residual righting lever arm, in m, is at least:
 $h = 0,20 - 0,23 \varphi_n$

Residual righting lever arm means the maximum difference existing between 0° and 30° list between the righting lever and the heeling lever curves. If an opening towards the inside of the floating equipment is immersed at a list angle less than the one corresponding to the maximum difference between the lever arm curves, the lever arm corresponding to that list angle is to be taken into account.

where:

φ_n : List angle, in radian, from which the righting lever arm curve displays negative values; this is not to be inserted into the formula for more than 30° or 0,52 rad.

7.5 Intact stability in case of reduced residual freeboard - Harbour equipment intended for passengers

7.5.1 If a reduced residual freeboard is taken into account, it is not to be checked, for all operating conditions, that:

- a) After correction for the free surfaces of liquids, the metacentric height GM is not less than 0,15 m
- b) The maximum righting lever arm h_{max} is to occur at a list angle of $\varphi_{max} \geq (\varphi_{mom} + 3^\circ)$ and is not to be less than 0,20 m. However, in case $\varphi_i < \varphi_{max}$ the righting lever arm at the downflooding angle φ_i is not to be less than 0,20 m.
- c) The list angle does not exceed 10°
- d) The residual safety clearance value is, at least:
 - 0,30 m for weathertight openings
 - 0,40 m for unprotected openings
- e) The residual freeboard is at least 0,05 m
- f) The area A under the curve of the righting lever arm is to reach 0,05 m.rad up to the angle φ_i .

where:

φ_i : List angle, at which openings in the hull which cannot be closed so as to be weathertight, submerge
 $\varphi_i \leq 15^\circ$

φ_{max} : List angle at which the maximum righting lever arm occurs

φ_{mom} : List angle due to the combined action of heeling moments defined in [7.2].

7.6 Damage stability

7.6.1 Where the floating landing dock is intended for passengers, proof of appropriate damage stability is to be furnished according to [7.6.5] and [7.6.6].

7.6.2 Floating landing dock is to comply with the one-compartment status, taking into account the assumptions concerning the extent of damage given in Tab 8 and assuming the compartment permeability to be 95%.

7.6.3 The bulkheads can be assumed to be intact if the distance between two adjacent bulkheads is greater than the damage length. Longitudinal bulkheads at a distance of less than $B/3$ measured rectangular to centre line from the shell plating at the maximum draught plane is not to be taken into account for calculation purposes.

7.6.4 If damage of a smaller dimension than specified in [7.6.2] produces more detrimental effects with respect to heeling or loss of metacentric height, such damage is to be taken into account for calculation purposes.

7.6.5 Under the combined action of heeling moments defined in [7.2], the residual freeboard and the residual safety clearance are not less than 0,10 m.

7.6.6 For safety reasons, greater values of the residual safety clearance or residual freeboard may be required by the Society.

Table 8 : Extent of damage, in m

Damage location	Dimension of the damage	
Wall	Longitudinal ℓ	$0,1 L_{WL} \geq 4$ (1)
	Transverse b	$B/5$
	Vertical h	From unit bottom to top without delimitation
Bottom (3)	Longitudinal ℓ	$0,1 L_{WL} \geq 4$ (1)
	Transverse b	$B/5$
	Vertical h	0,59; pipework is to be deemed intact (2)
<p>(1) For units with $L_{WL} \leq 25$, smaller values of the damage extent may be accepted by the Society on a case-by-case basis.</p> <p>(2) Where a pipework system has no open outlet in a compartment, the pipework shall be regarded as intact in the event of this compartment being damaged, if it runs within the safe area and is more than 0,50 m off the bottom of the unit.</p> <p>(3) May be disregarded if the water stretch level is relatively constant (e.g., no season or tide effect).</p>		