



TEKNİK ÖZELLİKLER

LOA	: 45.25 M	JENERATÖRLER	: 2 X CAT 3512B 1230KW
LWL	: 44.65 M	GÜNDELİK JENERATÖRLER	: 2 X CAT C7,1 150KW
LBP	: 43.65 M	ELEKTRİKLİ PODLAR	: 2 X VETH VL 700I-CR 550KW
BOA	: 12.4 M	KAPALI GÜVERTE ALANI	: 134 M ²
T	: 2 M	AÇIK GÜVERTE ALANI	: 460 M ²
D	: 10.28 M	TATLI SU KAPASİTESİ	: 10.1 T
V _G	: 15 KN	KİRLİ SU KAPASİTESİ	: 4.1 T
V _{MAX}	: 20 KN	YAKIT KAPASİTESİ	: 93.95 T
Δ	: 315 T	YOLCU KAPASİTESİ	: 760 + 240
GT	: 650	MÜRETTEBAT SAYISI	: 10
		STABILIZER	: 2XHUMPHREE
		BATARYA SAYISI	: 840 X LİTYUM BATERİ (LPB)
		BATARYA GÜCÜ	: 840 X 48V X 200AH =8.064 KWH
		SEYİR YARIÇAPI @15KNOT (SADECE BATARYALAR İLE)	: 192,6 DM=308.44 KM

YAPISAL ÖZELLİKLER

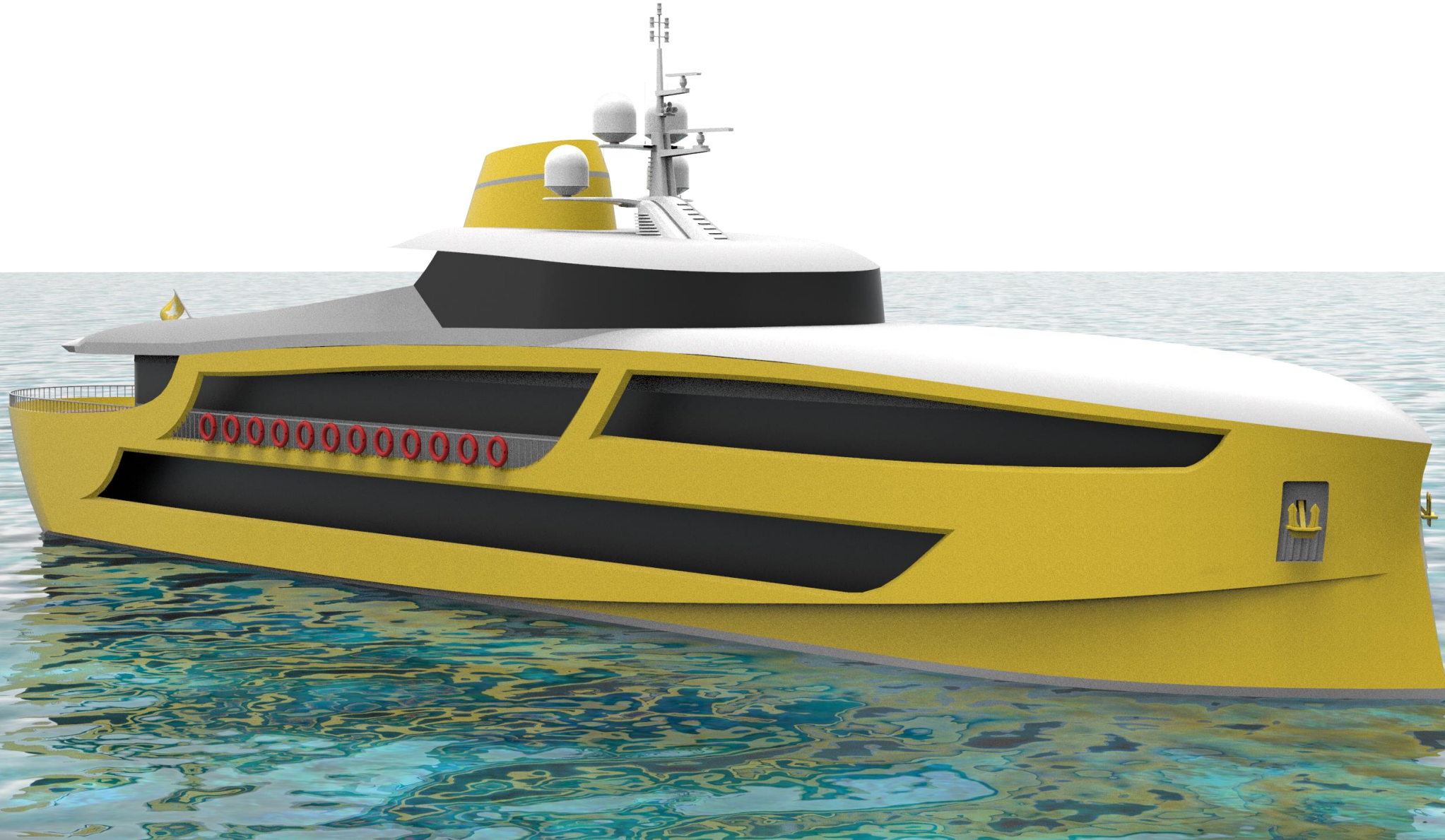
TAM ELEKTRİKLİ, ÇEVRECİ YOLCU
FERİBOTU RAVENZ

ÜRETİMDE KULLANILACAK
MALZEMELER

GEMİ İNŞA ÇELİĞİ, PASLANMAZ ÇELİK,
ALÜMİNYUM, PLASTİK, AHŞAP, CAM

ÜRETİMDE KULLANILACAK TEKNİKLER

KAYNAK, TALAŞLI VE TALAŞSIZ
ŞEKİLLENDİRME, MONTAJ, YAPIŞTIRMA



RAVENZ



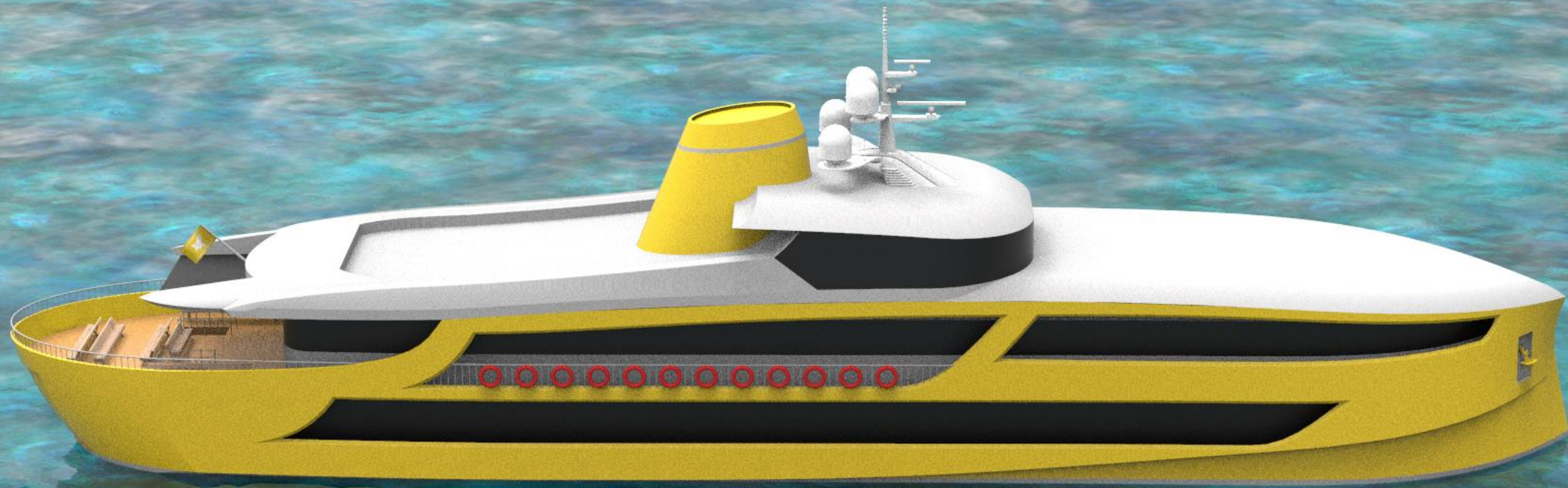
RAV24076



RAVENZ



RAV24076



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RAVENZ

3D GÖRÜNÜMLER

RAV24076



RAVENZ



RAV24076



BATARYALAR

AÇILIR TAVAN

OTURMA ALANI

BALKONLAR

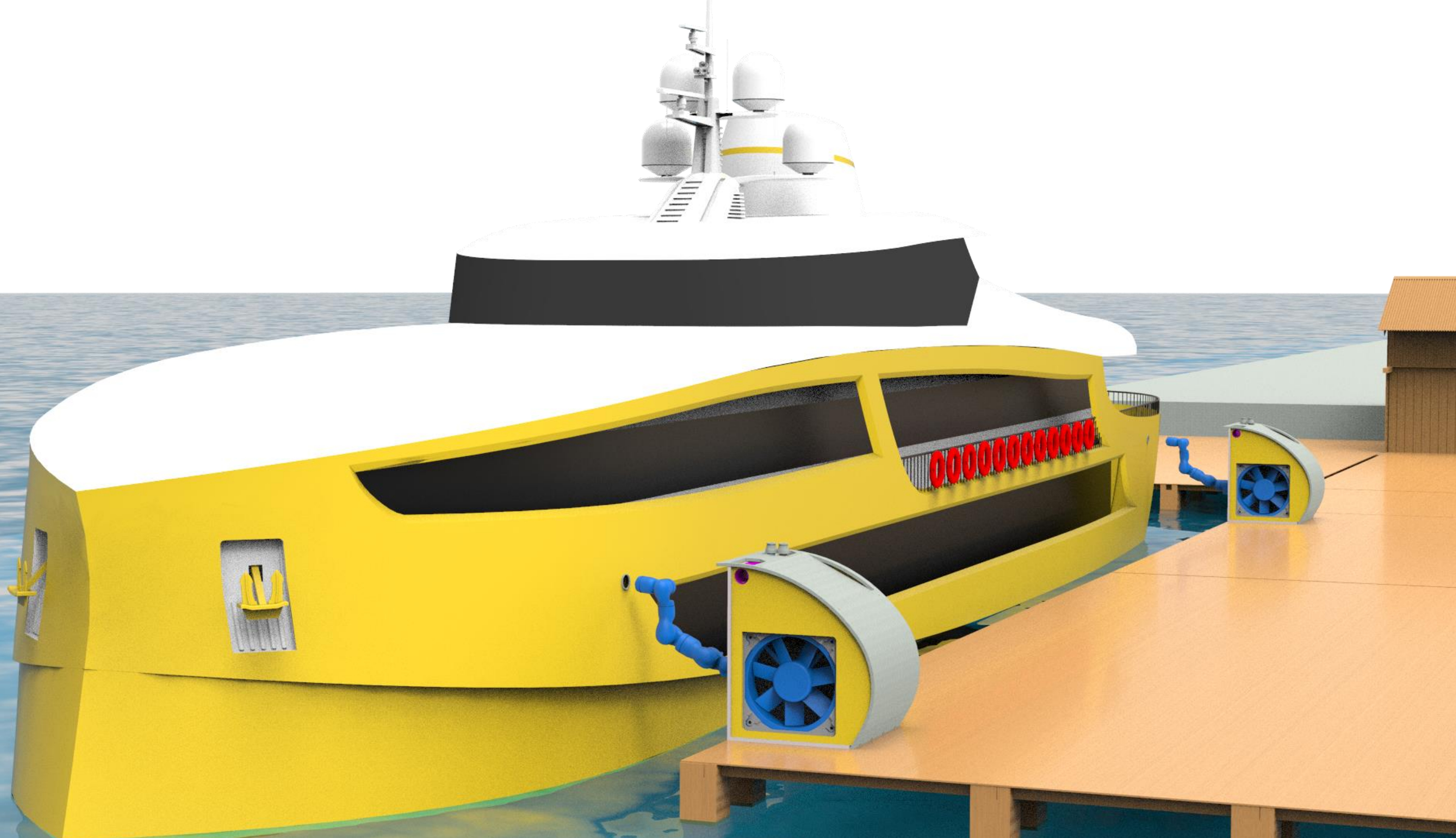
KAYAR KAPI



HALEN DİZEL JENERATÖRLERE SAHİP OLMASINA RAĞMEN KLASİK BAĞA GÖRÜNÜMLÜ DEPOSUNDA BULUNAN 840 ADET 48 VOLTluk, 200 AMPER SAATLİK BATARYALARI İLE **TAKVİYESİZ 192 DENİZ MİLİ (308 KİLOMETRE)** MESAFEYE GİDEBİLİR RAVENZ. BU DA 15 KNOTLİK SABİT BİR HIZLA YAKLAŞIK OLARAK **13 SAATE DENK GELMEKTEDİR.**

3 FARKLI MODDA SEYİR MÜMKÜNDÜR; KLASİK DİZEL JENERATÖR MODU; ÇEVRECİ, SESSİZ VE YÜKSEK VERİMLİ ÇEVRECİ ELEKTRİK MODU VE DE BU İKİ SİSTEMİN KOMBİNE EDİLDİĞİ HİBRİT MOD.

BATARYALAR BELİRTİLEN KULLANIM SÜRESİ SONUCUNDA TÜKENDİĞİNDE TEKNEDE BULUNAN DİZEL JENERATÖRLER İLE ŞARJ EDİLEBİLİR ANCAK ÇEVRECİLİK AÇISINDAN DAHA İYİ SONUÇ VERMESİ İÇİN İSKELELERE KURULACAK OLAN **TAM OTONOM HIZLI BATARYA DOLUM TESİSLERİ** İLE **İNSANSIZ** ŞEKİLDE YAPILABİLİR.





TAM ELEKTRIKLİ FERİBOT



Transformatör

Destek Bağlantısı
Salteri

Bağlantı Kutusu

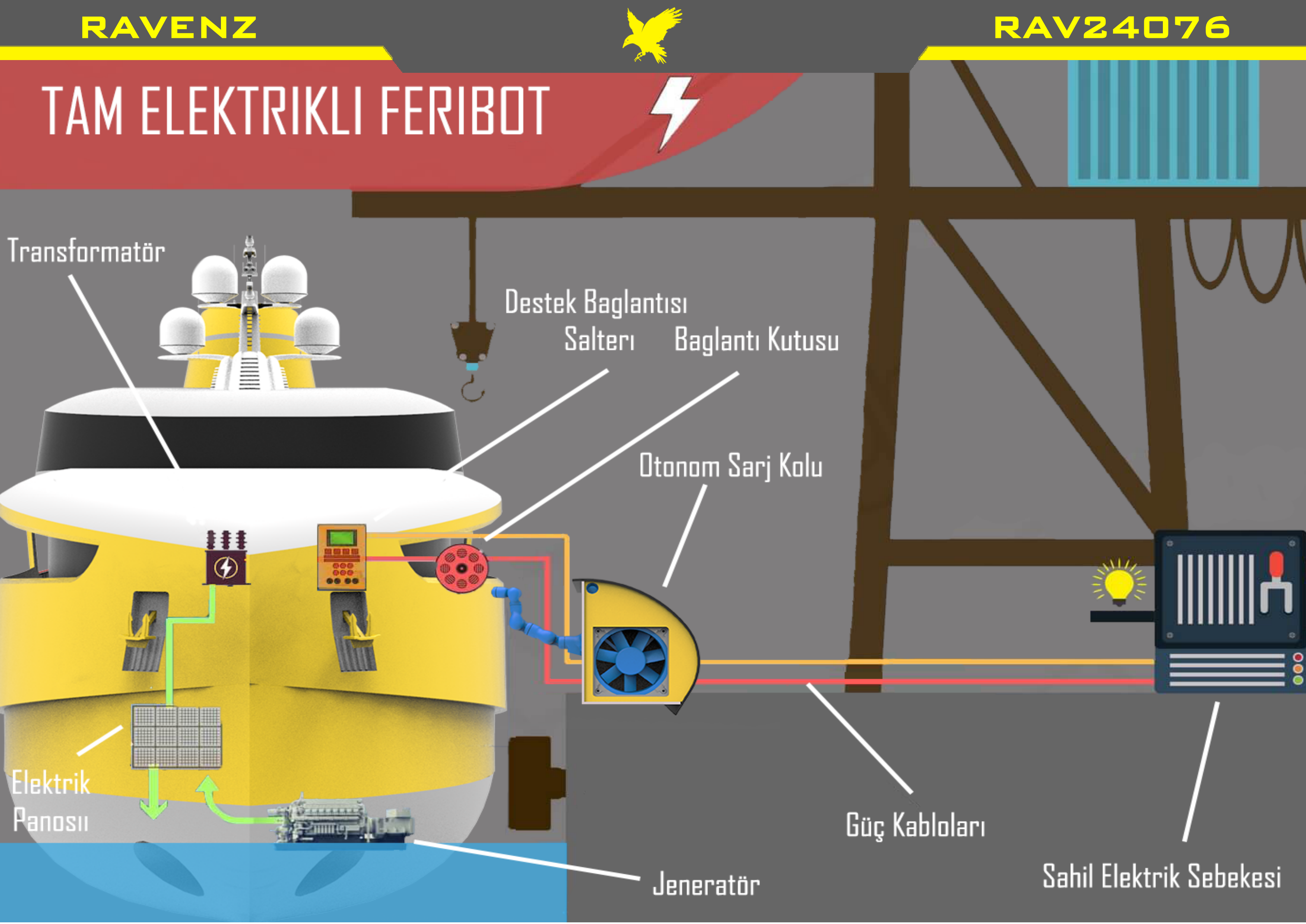
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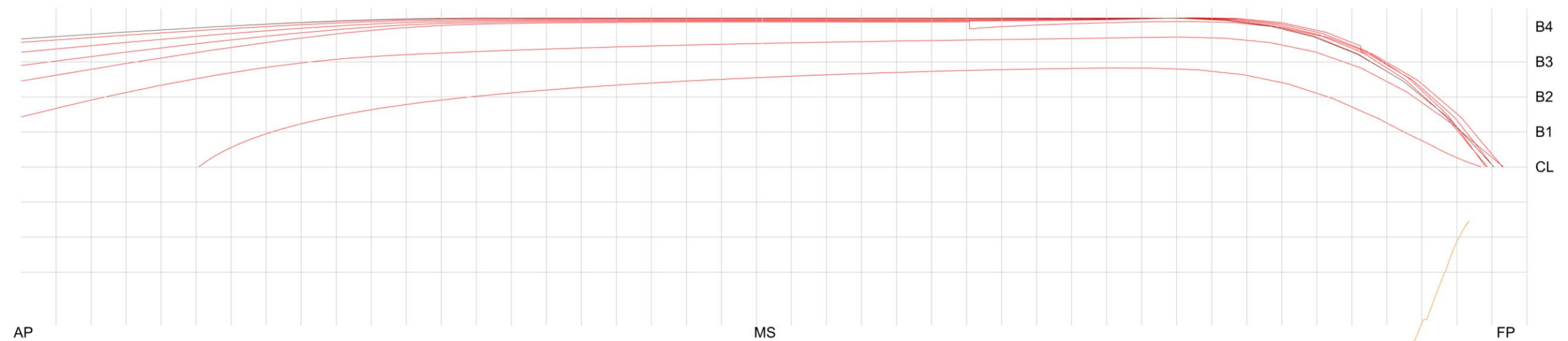
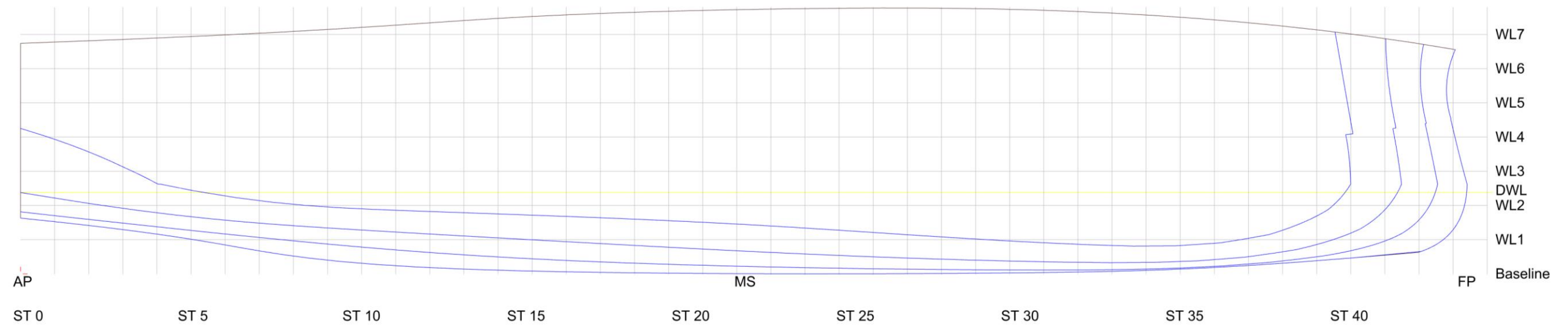
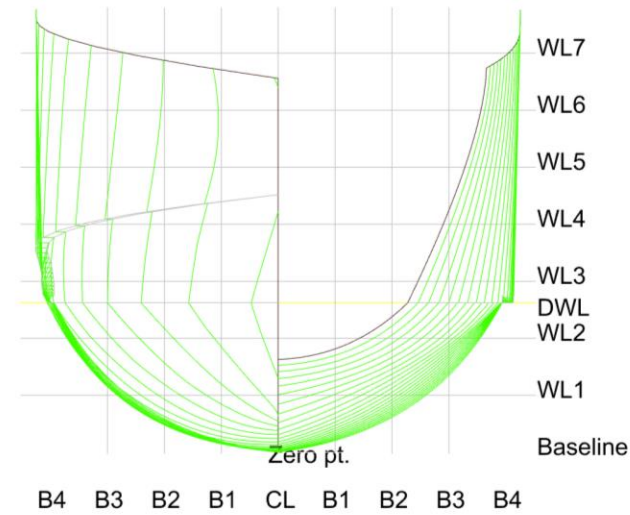
Elektrik
Panosu

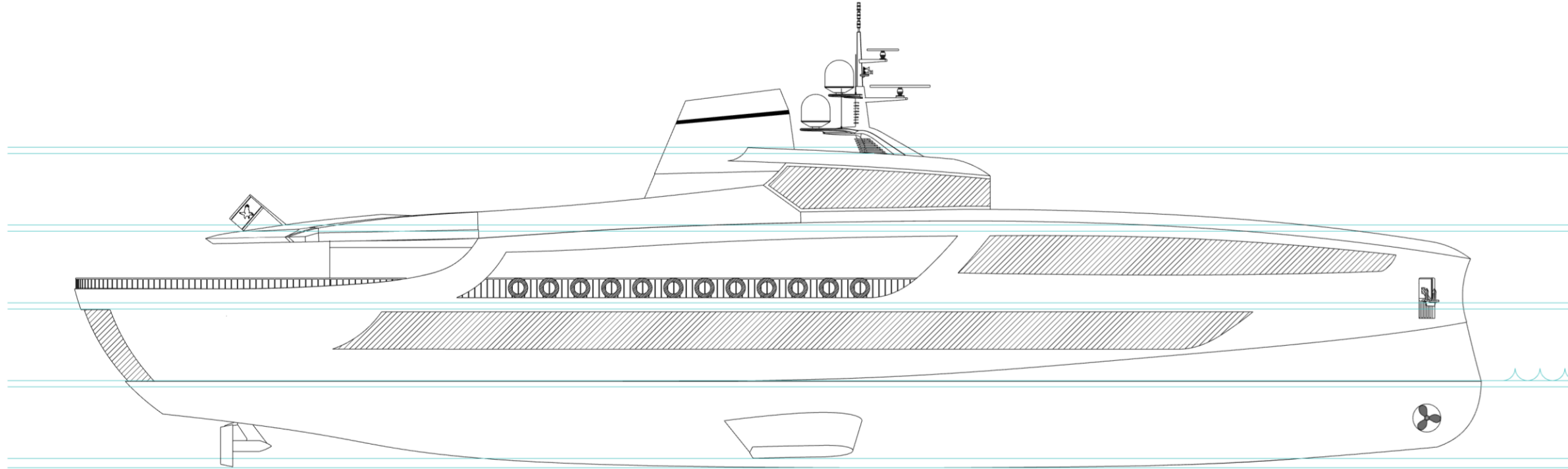
Güç Kabloları

Jeneratör

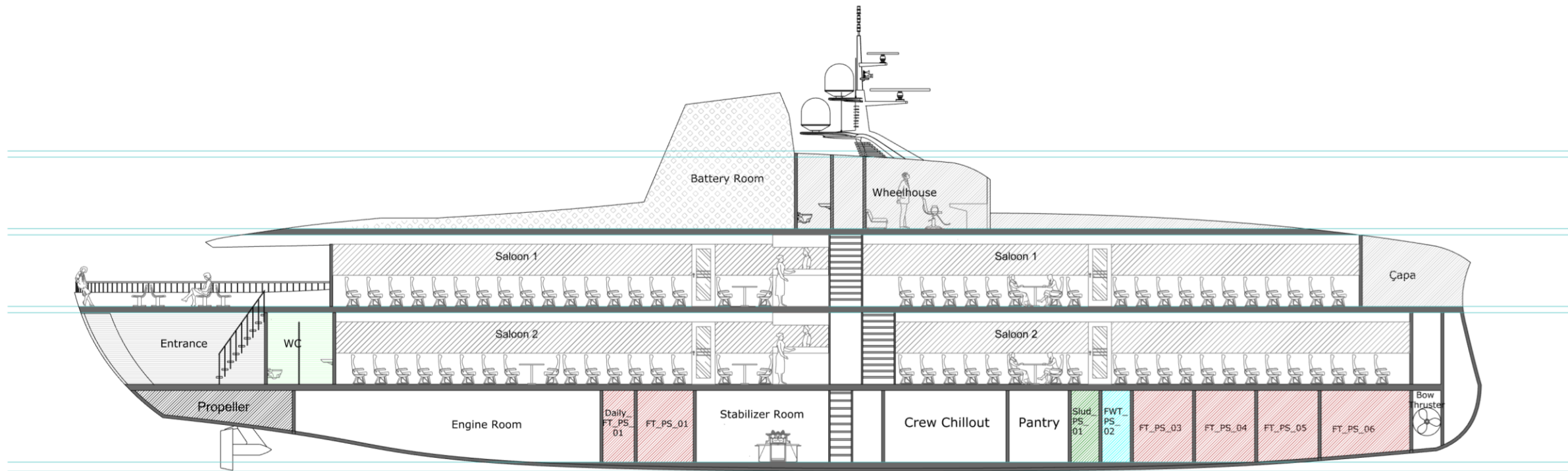
Sahil Elektrik Şebekesi





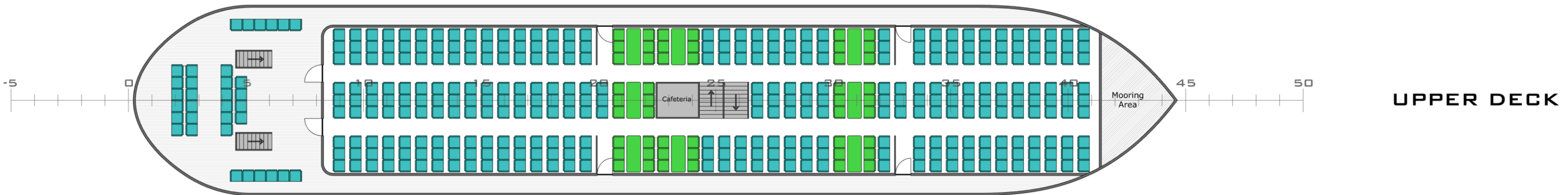
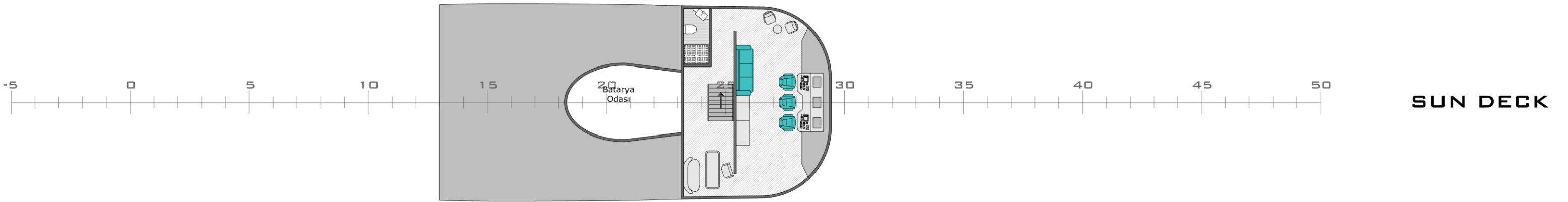


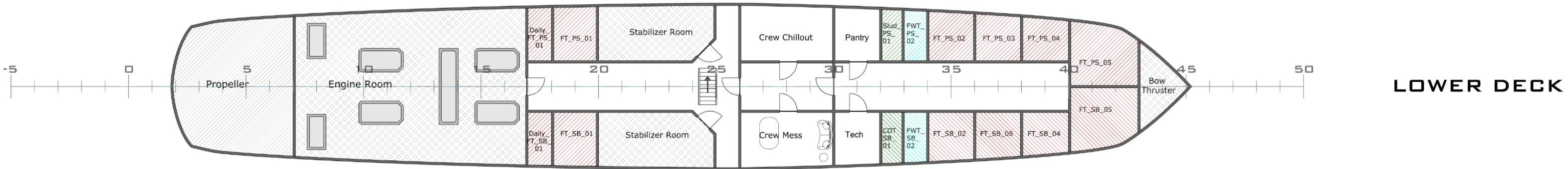
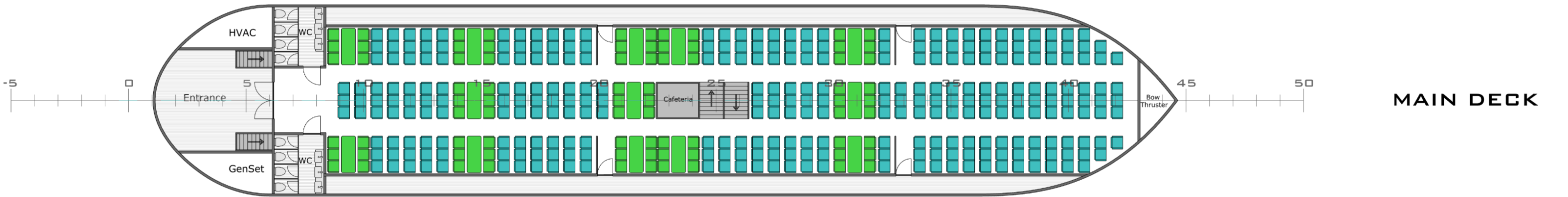
PROFILE



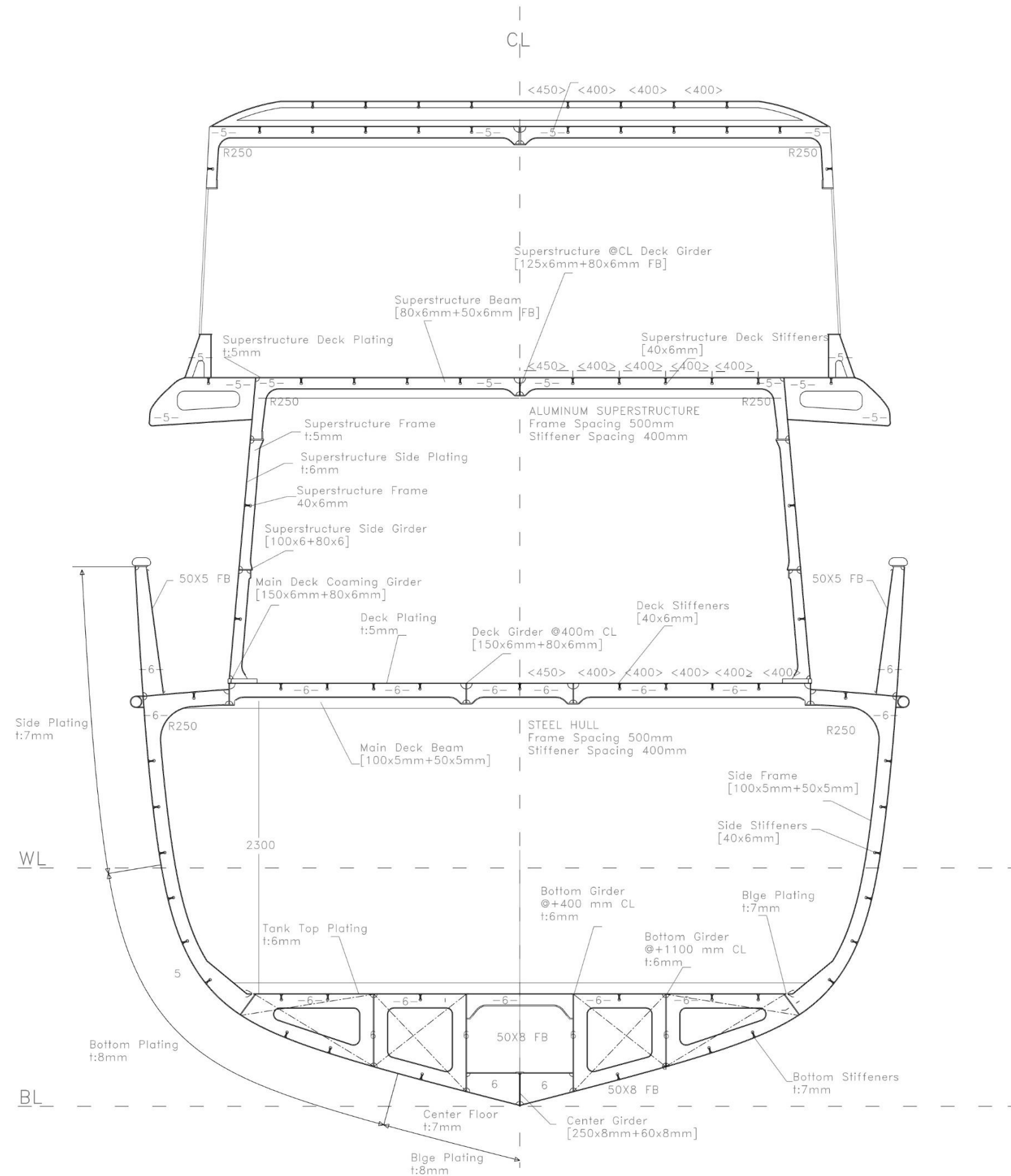
PROFILE SECTION







Weight Table									
Item Name		Quantity	Unit Mass tonne	Total Mass tonne	Unit Volume m^3	Total Volume m^3	Long. Arm m	Trans. Arm m	Vert. Arm m
Structures									
Steel Hull		1,000	65,000	65,000			23,200	0,000	2,000
Super Structure		1,000	25,000	25,000			32,000	0,000	4,000
Fins		2,000	2,000	4,000			23,100	0,000	1,700
Propeller		2,000	3,000	6,000			5,500	0,000	0,800
Outfitting									
Equipment		1,000	1,000	1,000			25,000	0,000	2,000
Fence		1,000	1,000	1,000			2,400	0,000	4,000
Lights		1,000	0,100	0,100			25,000	0,000	0,000
Sun Deck									
Mast		1,000	1,000	1,000			25,110	0,000	12,250
Bataryalar		840,000	0,005	4,200			21,000	0,000	9,540
Köprüüstü				0,000					
	C Panel	1,000	0,020	0,020			28,240	0,000	8,800
	PC	1,000	0,020	0,020			28,850	0,000	8,800
	Seats	3,000	0,050	0,150			27,590	0,000	8,360
	Couch #1	1,000	0,150	0,150			25,800	-1,350	8,150
	Shelf	1,000	0,100	0,100			25,770	0,760	8,800
	Table #1	1,000	0,010	0,010			24,460	2,840	8,200
	Chairs #1	1,000	0,030	0,030			25,160	2,920	8,300
	Couch #2	1,000	0,030	0,030			23,430	3,030	8,150
	Chairs #2	2,000	0,030	0,060			27,280	-3,080	8,100
	Table #2	1,000	0,010	0,010			27,280	-3,080	8,200
	Stairs #1	1,000	0,500	0,500			24,810	0,000	8,300
WC									
	Toilet #1	1,000	0,200	0,200			23,530	-3,000	8,150
	Sink #1	1,000	0,200	0,200			23,890	-3,750	8,550
	Shower	1,000	0,200	0,200			23,780	-2,000	8,800
Upper Deck									
Seats #1		358,000	0,050	17,900			22,500	0,000	5,800
Seats with Table #1		48,000	0,070	3,360			25,000	0,000	5,800
Cafe #1		1,000	1,000	1,000			23,500	0,000	6,300
Stairs #1		4,000	1,000	4,000			14,500	0,000	6,500
Anchor		1,000	2,000	2,000			43,000	0,000	6,300
Doors #1		6,000	0,100	0,600			27,400	0,000	6,300
Main Deck									
Seats #2		297,000	0,050	14,850			29,300	0,000	3,300
Seats with Table #2		48,000	0,070	3,360			20,000	0,000	3,300
Cafe #2		1,000	1,000	1,000			23,500	0,000	3,800
Stairs #2		4,000	1,000	4,000			14,500	0,000	4,000
WC									
	Toilet#2	8,000	0,200	1,600			6,400	0,000	3,150
	Sink #2	6,000	0,200	1,200			8,100	0,000	3,600
Doors #2		8,000	0,100	0,800			23,300	0,000	3,850
HVAC		1,000	3,000	3,000			4,650	-4,000	3,500
GenSet		1,000	3,000	3,000			4,650	4,000	0,000
Entrance		1,000	3,000	3,000			1,000	0,000	3,800
Crew Mess		1,000	2,000	2,000			27,000	-3,000	1,500
Crew Chillout		1,000	2,000	2,000			27,000	3,000	1,500
Lower Deck									
Engine Room		1,000	20,000	20,000			13,000	0,000	1,400
Bow Thruster		1,000	1,000	1,000			43,000	0,000	1,000
Stairs		1,000	1,000	1,000			24,400	0,000	1,200
People		10,000	0,080	0,800			25,000	0,000	3,000



PRINCIPAL DIMENSIONS

L _{oo}	: 45.25 m	Main Engines:	
L _{wl}	: 43.65 m	Speed @Departure Condi	
D	: 10.28 m	Speed(cruising)eco.....	15
B	: 8.21 m	V=Speed(max.).....	20
T	: 2 m	Δ	: 315 ton

CONSTRUCTION MATERIAL

HULL & MAIN DECK:

Steel (Grade A) (NSS)

Ultimate Tensile Strength (Rm)= 400 N/mm²Yield Stress (Reh) = 235 N/mm²

Material Factor: K= 235/235= 1

SUPERSTRUCTURE:

Aluminum (h111)

Ultimate Tensile Strength (rm)= 275 N/mm²Yield Stress (reh) = 125 N/mm² (Flates)= 115 N/mm² (Sections)

Material Factor: K= 235/235= 1

CONSTRUCTION MATERIAL : STEEL

- Grade : 4140 H111

- Min Yield Stress : 315 N/mm²- Min Tensile Stress : 440 N/mm²

FRAME SPACING : 750 mm

SEC. STIFF. SPACING : 450/ 400mm

PLATING

- Bottom Plating : 8 mm

- Side Plating : 7 mm

- Main deck Plating : 6 mm

- Superstr. Plating : 6 mm

- Bulkheads : 6 mm

BOTTOM

- Secondary Stiff. : 50x8FB

- Floors : Web t:5mm + 60x8FB

- Center CL Girders : Web t:6mm + 80x8FB

- Engine CL+350 Girders : Web t:6mm + 80x10FB

SIDE

- Secondary Stiff. : 50x8FB

- Frames : 125x5mm + 60x8FB

DECK

- Secondary Stiff. : 50x8FB

- Deck CL Girder : Web t:5mm

- Deck CL+1250 Girder : Web t:5mm

- Deck CL+2250 Girder : 125x5mm + 60x8FB

- Deck CL+3150 Girder : 125x5mm + 60x8FB

BULKHEADS

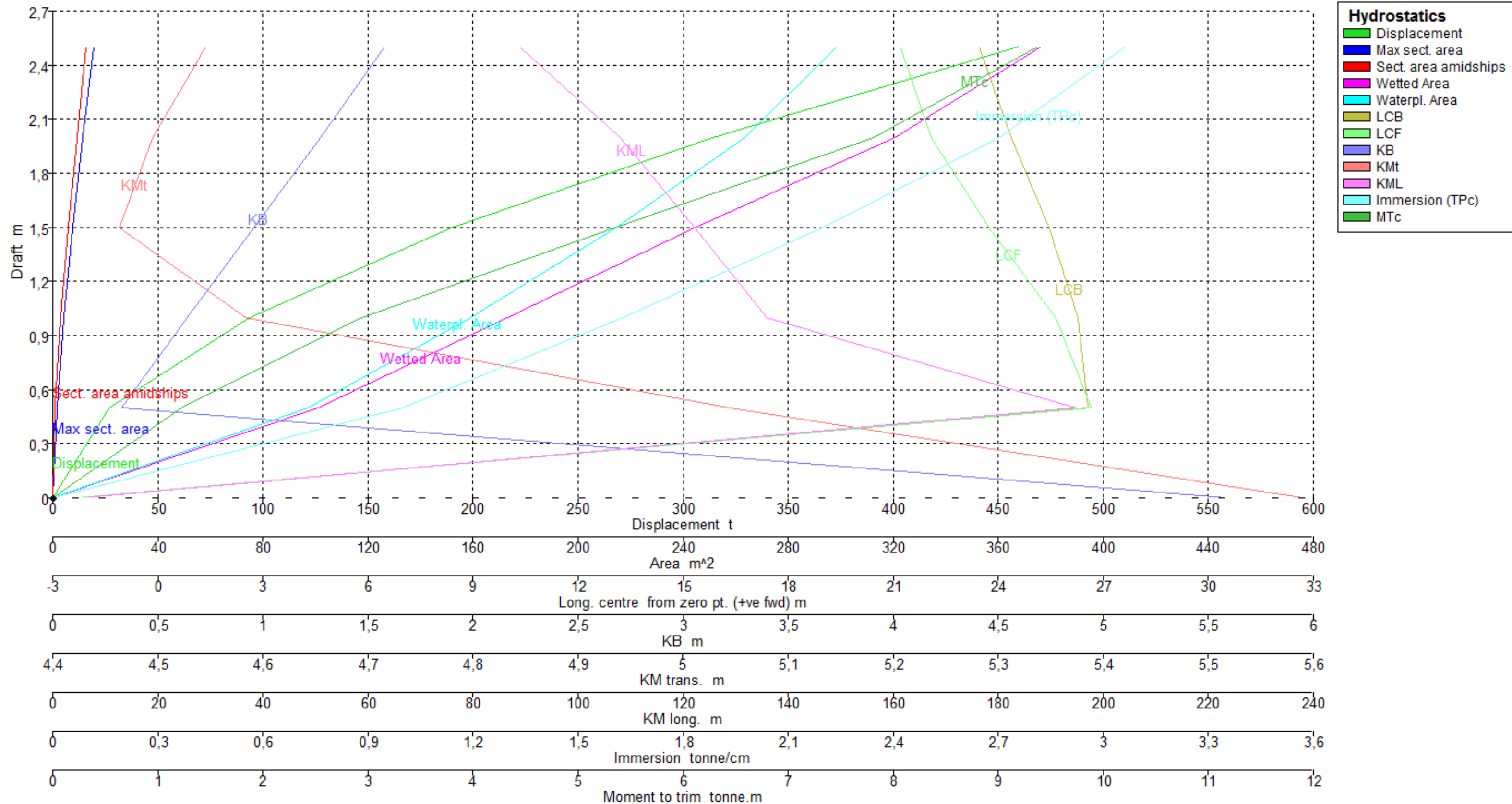
- Primary Stiffeners : 125x5mm+ 60x8 FB

- Secondary Stiffeners : 60x8FB

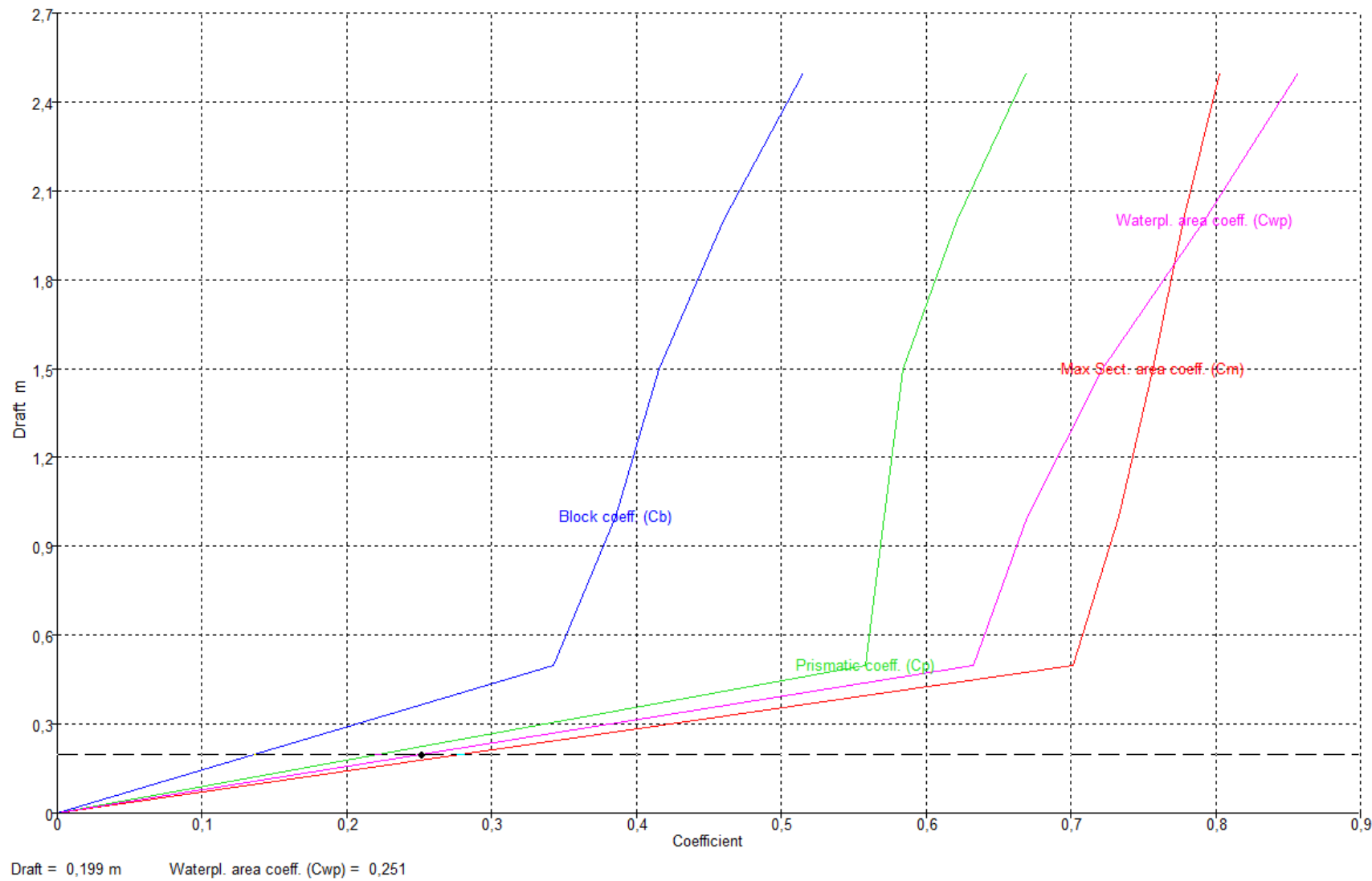
BRACKETS

- Sec. Stiffener Brackets : 75x75x5mm

- Prim. Stiffener Brackets : 125x125x5mm



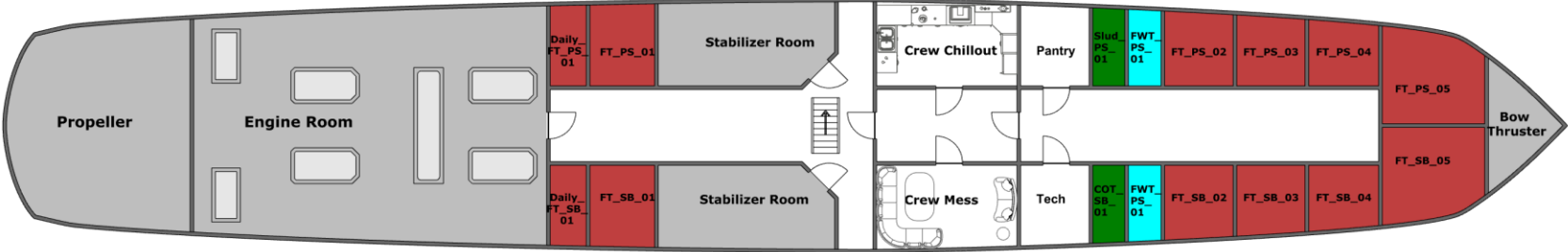
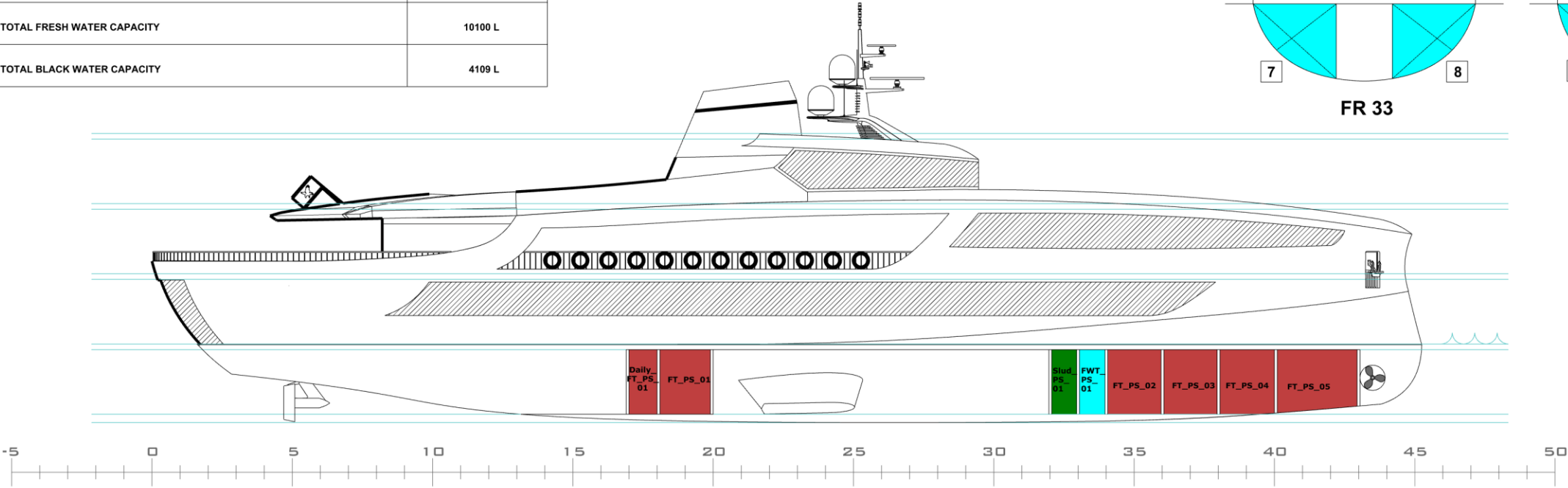
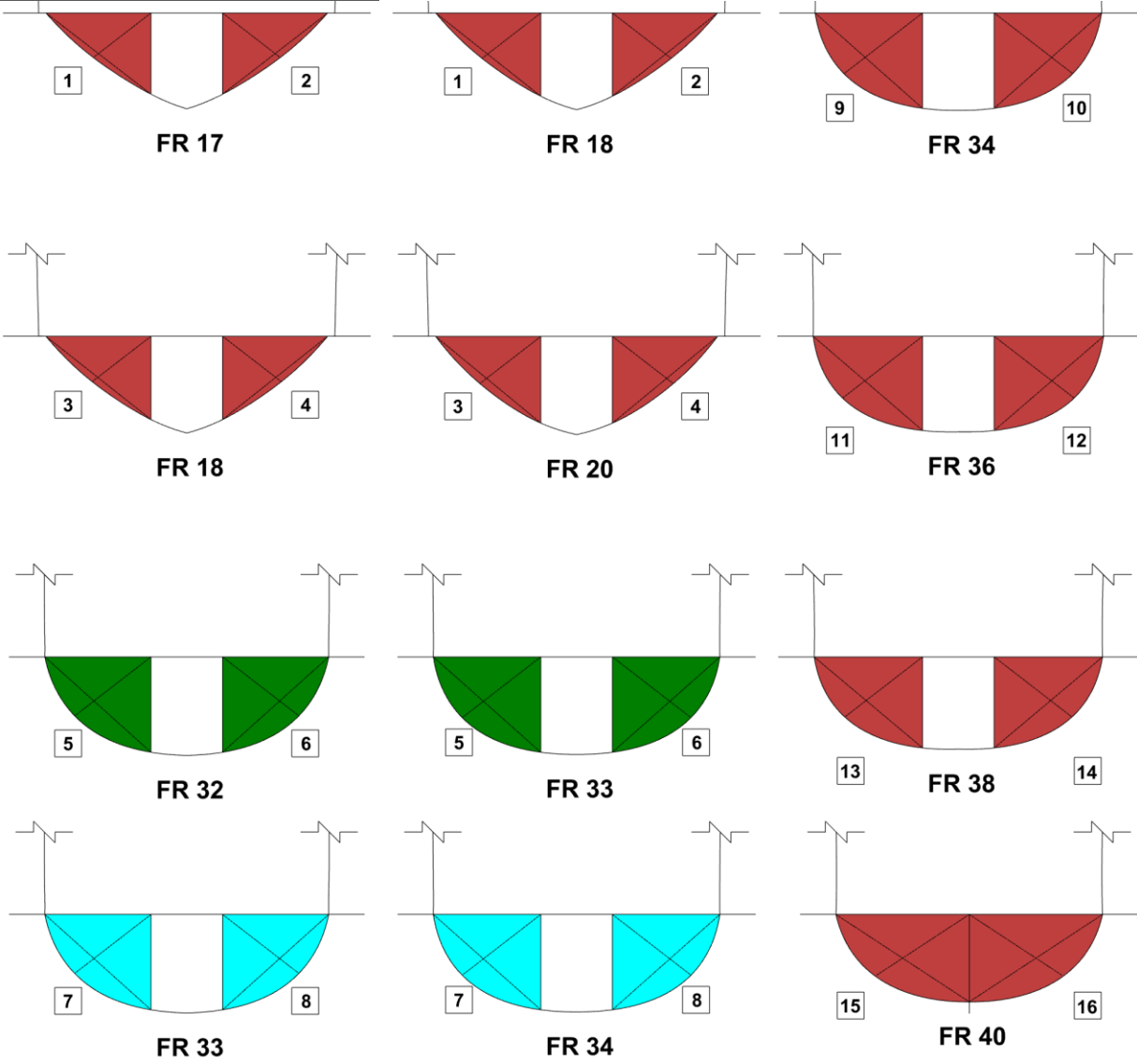
Draft = 0,000 m Displacement = 0,000 t

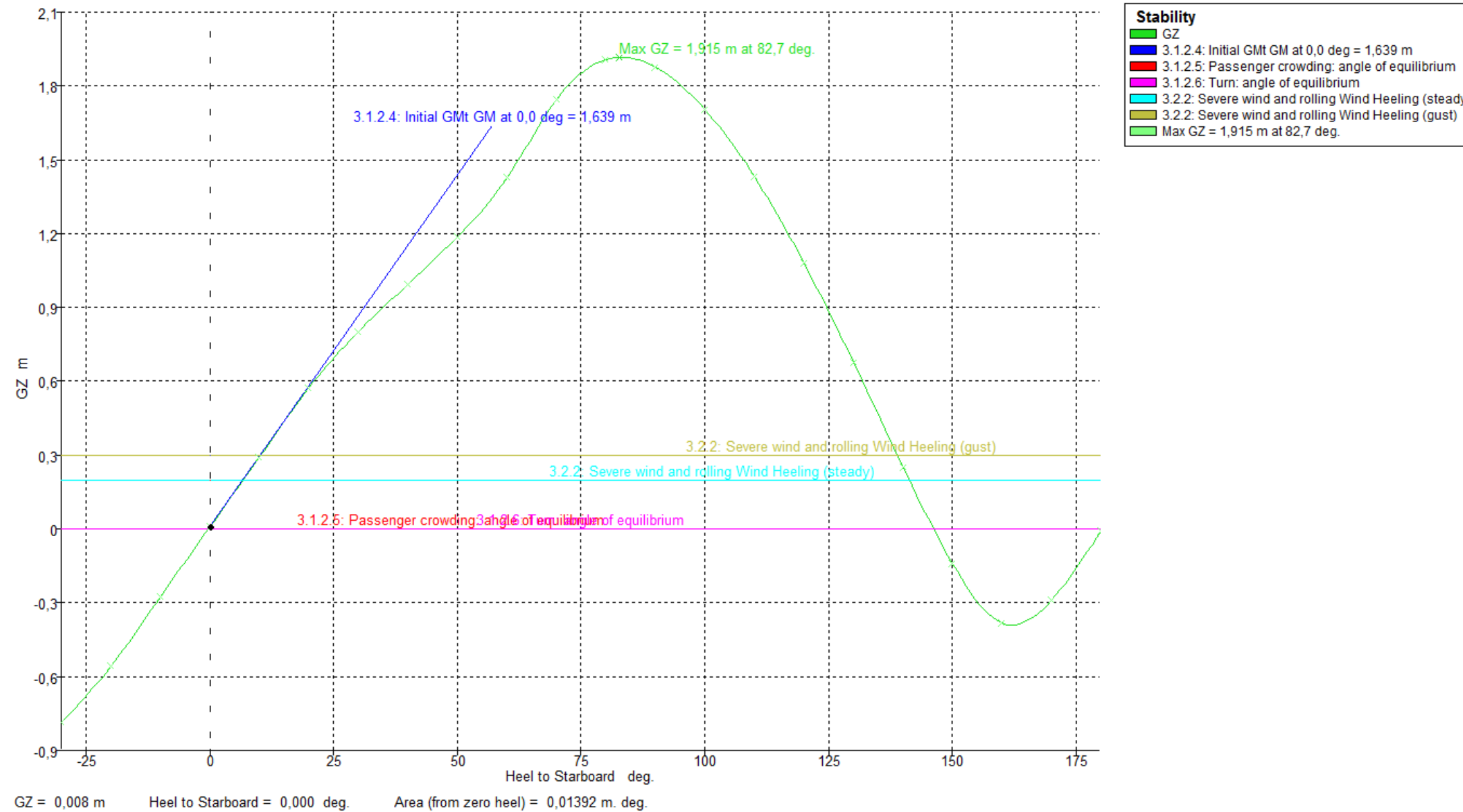


	Draft Amidships m	0,000	0,500	1,000	1,500	2,000
1	Displacement t	0,000	27,040	93,550	189,700	313,900
2	Heel deg	0,000	0,000	0,000	0,000	0,000
3	Draft at FP m	0,000	0,500	1,000	1,500	2,000
4	Draft at AP m	0,000	0,500	1,000	1,500	2,000
5	Draft at LCF m	0,000	0,500	1,000	1,500	2,000
6	Trim (+ve by stern) m	0,000	0,000	0,000	0,000	0,000
7	WL Length m	0,000	31,308	36,634	40,628	42,603
8	Beam max extents on WL m	0,000	4,915	6,468	7,313	7,808
9	Wetted Area m^2	0,000	101,189	173,031	244,419	314,602
10	Waterpl. Area m^2	0,000	97,374	158,813	214,538	263,576
11	Prismatic coeff. (Cp)	0,000	0,558	0,571	0,584	0,621
12	Block coeff. (Cb)	0,000	0,343	0,385	0,415	0,460
13	Max Sect. area coeff. (Cm)		0,701	0,733	0,757	0,778
14	Waterpl. area coeff. (Cwp)	0,000	0,633	0,670	0,722	0,792
15	LCB from zero pt. (+ve fwd) m	-2,327	26,547	26,288	25,448	24,359
16	LCF from zero pt. (+ve fwd) m	-2,327	26,646	25,649	23,736	22,082
17	KB m	5,591	0,329	0,642	0,956	1,272
18	KG m	2,000	2,000	2,000	2,000	2,000
19	BMt m	0,000	4,715	3,942	3,508	3,224
20	BML m	0,000	194,420	135,237	121,223	106,793
21	GMt m	3,591	3,043	2,584	2,463	2,495
22	GML m	3,591	192,749	133,878	120,179	106,064
23	KMt m	5,591	5,043	4,584	4,463	4,495
24	KML m	5,591	194,749	135,878	122,179	108,064
25	Immersion (TPc) tonne/cm	0,000	0,998	1,628	2,199	2,702
26	MTc tonne.m	0,000	1,223	2,940	5,351	7,814
27	RM at 1deg = GMt.Disp.sin(1) tonne.m	0,000	1,436	4,219	8,154	13,669
28	Max deck inclination deg	0,000	0,000	0,000	0,000	0,000
29	Trim angle (+ve by stern) deg	0,000	0,000	0,000	0,000	0,000

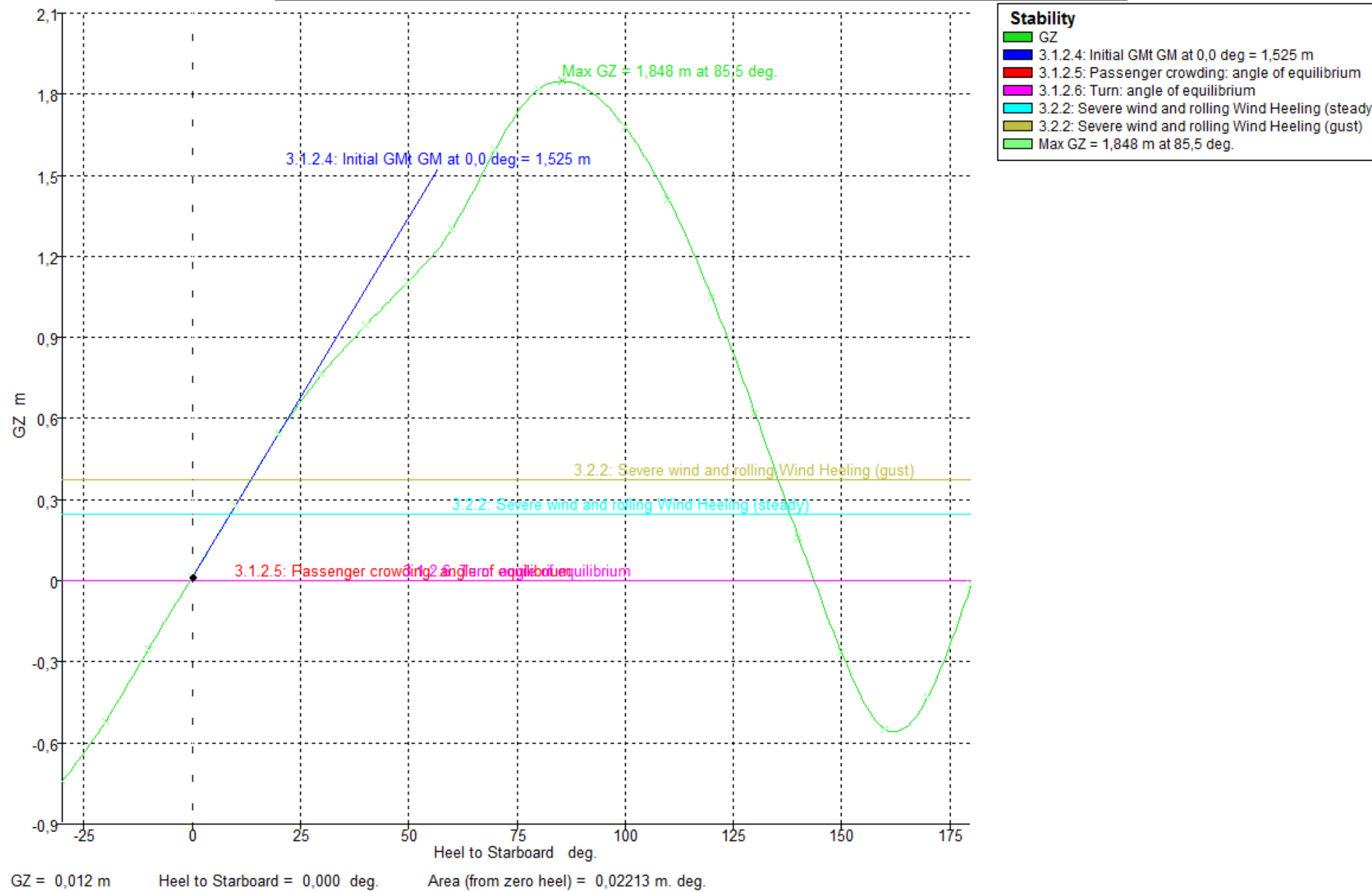
NO	TANK NAME	CONTENT	CAPACITY	STANDART TANK MANHOLE (400x600)
1	DIESEL DAY TANK PS 01	DIESEL OIL	2716 L	12 mm Steel Grade A Cover 25mm Steel Grade A Flange 5mm Neopryene Gasket Materials Grade A Steel, Bolts SS316L Nut Brass, Gasket Neopryene
2	DIESEL DAY TANK SB 01	DIESEL OIL	2716 L	
3	DIESEL TANK PS	DIESEL OIL	5791 L	
4	DIESEL TANK SB	DIESEL OIL	5791 L	
5	SLUDGE PS 01	SLUDGE & DIRTY OIL	4109 L	
6	CLEAN OIL TANK SB	CLEAN OIL	4109 L	
7	FRESH WATER TANK PS	FRESH WATER	5050 L	
8	FRESH WATER TANK SB	FRESH WATER	5050 L	
9	DIESEL TANK PS 02	DIESEL OIL	9313 L	
10	DIESEL TANK SB 02	DIESEL OIL	9313 L	
11	DIESEL TANK PS 03	DIESEL OIL	8011 L	
12	DIESEL TANK SB 03	DIESEL OIL	8011 L	
13	DIESEL TANK PS 04	DIESEL OIL	7052 L	
14	DIESEL TANK SB 04	DIESEL OIL	7052 L	
15	DIESEL TANK PS 05	DIESEL OIL	14092 L	
16	DIESEL TANK SB 05	DIESEL OIL	14092 L	

TOTAL DIESEL CAPACITY	93950 L
TOTAL FRESH WATER CAPACITY	10100 L
TOTAL BLACK WATER CAPACITY	4109 L

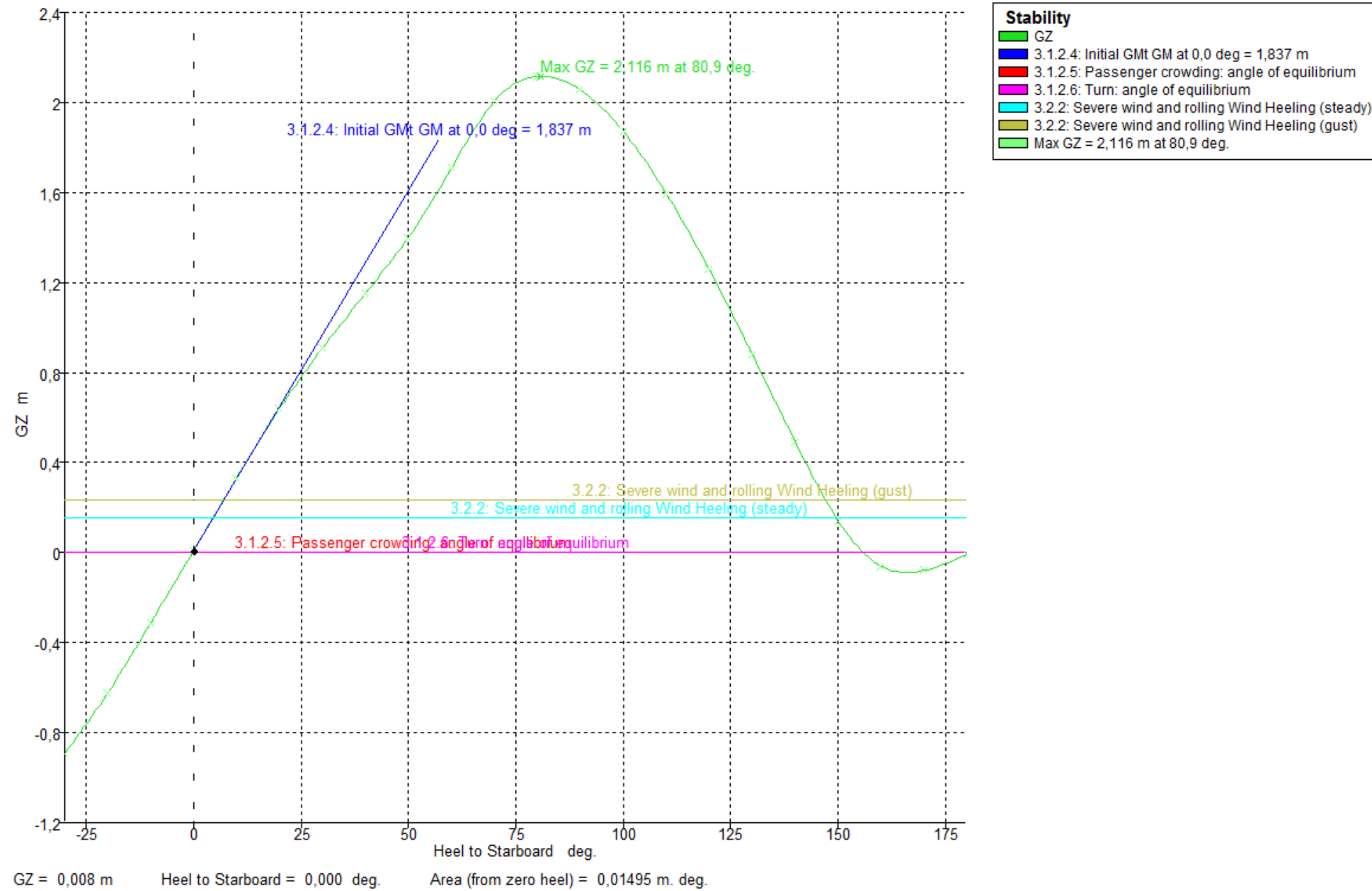




	Heel to Starboard deg	-30,000	-20,000	-10,000	0,000	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000
1	GZ m	-0,904	-0,634	-0,316	0,009	0,334	0,651	0,920	1,156	1,393	1,678	2,000	2,140	2,097	1,917	1,638	1,284	0,881	0,458	0,065	-0,177	-0,157	-0,009
2	Area under GZ curve from zero heel m.deg	14,021	6,301	1,528	0,017	1,711	6,658	14,551	24,945	37,670	52,961	71,415	92,294	113,611	133,783	151,629	166,287	177,142	183,842	186,390	185,634	183,782	182,904
3	Displacement t	314,500	314,500	314,500	314,600	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500	314,500
4	Draft at FP m	2,127	2,221	2,266	2,272	2,266	2,222	2,127	1,928	1,540	0,760	-0,922	-5,694	n/a	-12,977	-8,273	-6,765	-6,067	-5,729	-5,610	-5,656	-5,797	-5,874
5	Draft at AP m	1,078	1,422	1,615	1,704	1,616	1,422	1,078	0,564	-0,255	-1,749	-5,076	-15,432	n/a	-25,885	-15,532	-11,927	-10,082	-8,936	-8,136	-7,567	-7,205	-7,045
6	WL Length m	42,091	42,239	42,356	42,289	42,357	42,239	42,093	42,237	42,258	41,159	40,165	40,567	42,824	43,669	44,165	44,636	44,607	44,538	44,519	44,518	44,527	38,208
7	Beam max extents on WL m	7,730	7,865	7,908	7,907	7,908	7,866	7,730	7,711	7,946	8,610	8,148	7,612	7,276	7,086	6,998	6,973	6,994	7,194	7,724	8,904	8,627	8,497
8	Wetted Area m^2	306,612	306,901	307,842	306,287	307,816	306,424	305,603	306,210	310,056	319,263	326,199	322,927	318,956	316,234	317,124	313,877	311,550	313,150	322,462	347,375	370,257	375,673
9	Waterpl. Area m^2	247,258	251,042	256,191	254,451	256,166	251,007	247,231	248,617	256,225	270,743	269,363	250,358	234,559	223,169	215,245	210,427	208,599	212,441	227,345	262,449	287,405	297,509
10	Prismatic coeff. (Cp)	0,574	0,575	0,571	0,571	0,571	0,575	0,574	0,565	0,552	0,548	0,552	0,544	0,514	0,506	0,505	0,507	0,515	0,525	0,535	0,540	0,542	0,634
11	Block coeff. (Cb)	0,383	0,401	0,427	0,443	0,427	0,401	0,383	0,366	0,349	0,339	0,392	0,441	0,437	0,360	0,310	0,281	0,270	0,267	0,268	0,270	0,361	0,632
12	LCB from zero pt. (+ve fwd) m	25,741	25,733	25,729	25,726	25,729	25,734	25,742	25,751	25,761	25,772	25,792	25,824	25,860	25,898	25,934	25,959	25,972	25,965	25,940	25,901	25,856	25,832
13	LCF from zero pt. (+ve fwd) m	23,101	22,991	22,939	22,955	22,940	22,993	23,102	23,105	23,125	23,225	22,771	22,774	22,973	23,451	23,714	24,056	24,311	24,385	24,320	24,153	23,002	22,382
14	Max deck inclination deg	30,023	20,024	10,037	0,764	10,037	20,024	30,023	40,021	50,018	60,014	70,012	80,008	90,000	99,986	109,965	119,940	129,912	139,887	149,870	159,861	169,829	178,425
15	Trim angle (+ve by stern) deg	-1,411	-1,075	-0,875	-0,764	-0,875	-1,075	-1,411	-1,834	-2,413	-3,370	-5,569	-12,875	-90,000	-16,856	-9,669	-6,909	-5,383	-4,304	-3,393	-2,569	-1,893	-1,575

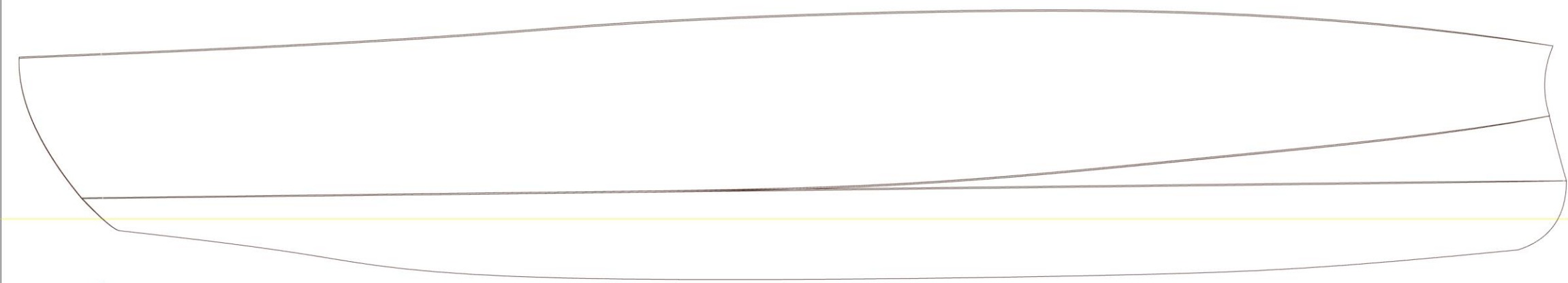


	Heel to Starboard deg	-30,000	-20,000	-10,000	0,000	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000
1	GZ m	-0,744	-0,520	-0,252	0,012	0,276	0,543	0,764	0,943	1,109	1,299	1,597	1,817	1,828	1,679	1,411	1,050	0,621	0,161	-0,265	-0,549	-0,428	-0,012
2	Area under GZ curve from zero heel m.deg	11,425	5,076	1,192	0,022	1,435	5,550	12,132	20,688	30,953	42,919	57,360	74,574	92,965	110,610	126,148	138,524	146,925	150,831	150,262	145,949	140,720	138,386
3	Displacement t	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100	237,100
4	Draft at FP m	1,604	1,746	1,818	1,833	1,818	1,746	1,605	1,335	0,847	-0,092	-2,212	-8,426	n/a	-15,908	-9,789	-7,801	-6,865	-6,385	-6,148	-6,091	-6,213	-6,299
5	Draft at AP m	0,895	1,259	1,466	1,549	1,466	1,259	0,895	0,360	-0,490	-2,036	-5,403	-16,131	n/a	-26,829	-16,039	-12,325	-10,422	-9,222	-8,376	-7,751	-7,308	-7,120
6	WL Length m	40,624	40,765	40,939	41,235	40,941	40,765	40,622	40,727	40,503	39,740	38,570	38,416	40,776	43,109	43,675	44,114	44,537	44,715	44,627	44,597	44,613	36,449
7	Beam max extents on WL m	7,174	7,332	7,523	7,619	7,523	7,332	7,175	7,051	7,204	7,779	8,072	7,490	7,092	6,813	6,597	6,410	6,295	6,392	6,773	7,815	8,623	8,494
8	Wetted Area m^2	270,931	270,482	269,396	268,519	269,385	270,236	270,170	269,499	270,791	275,947	290,882	288,417	283,409	278,433	277,381	270,874	266,536	267,396	276,035	298,819	334,270	340,841
9	Waterpl. Area m^2	226,305	231,376	231,333	230,528	231,321	231,342	226,265	225,020	228,184	236,089	251,761	235,181	218,652	205,257	195,319	186,318	181,040	183,237	197,074	228,151	272,138	282,696
10	Prismatic coeff. (Cp)	0,582	0,583	0,578	0,573	0,578	0,583	0,581	0,570	0,558	0,549	0,550	0,550	0,519	0,495	0,494	0,497	0,501	0,509	0,523	0,526	0,519	0,634
11	Block coeff. (Cb)	0,383	0,403	0,424	0,428	0,424	0,403	0,383	0,369	0,355	0,343	0,369	0,436	0,439	0,340	0,291	0,267	0,258	0,257	0,261	0,263	0,317	0,633
12	LCB from zero pt. (+ve fwd) m	25,779	25,772	25,766	25,764	25,767	25,773	25,782	25,790	25,799	25,809	25,822	25,851	25,884	25,919	25,951	25,975	25,988	25,977	25,952	25,914	25,859	25,835
13	LCF from zero pt. (+ve fwd) m	23,341	23,330	23,485	23,564	23,485	23,332	23,344	23,318	23,399	23,437	23,152	23,046	23,219	23,522	23,829	24,173	24,380	24,439	24,482	24,404	23,732	23,221
14	Max deck inclination deg	30,010	20,009	10,011	0,381	10,011	20,009	30,010	40,011	50,010	60,009	70,007	80,005	90,000	99,990	109,974	119,954	129,931	139,911	149,899	159,895	169,897	178,896
15	Trim angle (+ve by stern) deg	-0,954	-0,654	-0,473	-0,381	-0,473	-0,654	-0,955	-1,310	-1,797	-2,613	-4,283	-10,251	-90,000	-14,378	-8,346	-6,061	-4,772	-3,809	-2,993	-2,231	-1,472	-1,104



	Heel to Starboard deg	-30,000	-20,000	-10,000	0,000	10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000
1	GZ m	-0,938	-0,645	-0,323	0,007	0,337	0,658	0,95	1,227	1,516	1,845	2,103	2,185	2,116	1,933	1,668	1,349	0,999	0,649	0,345	0,156	0,055	-0,007
2	Area under GZ curve from zero heel m.deg	14,3726	6,4392	1,5797	0,0131	1,7232	6,7196	14,7849	25,6731	39,351	56,1538	76,0128	97,6005	119,211	139,5313	157,5898	172,7119	184,468	192,6933	197,585	199,9953	201,0033	201,2282
3	Displacement t	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9	400,9
4	Draft at FP m	3,049	3,07	3,074	3,063	3,075	3,071	3,049	2,96	2,731	2,238	1,381	-0,893	n/a	-7,882	-5,701	-4,995	-4,712	-4,62	-4,675	-4,841	-4,98	-5,047
5	Draft at AP m	0,805	1,172	1,371	1,472	1,371	1,172	0,806	0,255	-0,621	-2,223	-5,831	-16,953	n/a	-27,444	-16,227	-12,473	-10,496	-9,277	-8,435	-7,851	-7,513	-7,366
6	WL Length m	40,631	40,648	40,685	41,041	40,686	40,645	40,635	40,863	41,224	40,859	39,552	39,312	41,233	43,239	44,586	44,655	44,704	44,716	44,679	44,612	41,788	35,9
7	Beam max extents on WL m	8,408	8,33	8,168	8,207	8,168	8,33	8,408	8,568	8,947	8,946	8,215	7,729	7,457	7,359	7,407	7,571	7,841	8,247	8,966	9,044	8,633	8,502
8	Wetted Area m^2	331,675	330,111	339,96	334,781	339,942	330,509	328,645	330,75	336,72	346,258	345,999	343,132	340,677	338,432	338,069	342,994	343,117	346,205	355,81	371,029	381,322	380,281
9	Waterpl. Area m^2	255,862	256,604	260,596	258,474	260,568	256,553	255,846	260,21	270,755	280,329	269,599	251,789	238,135	228,808	224,09	223,189	224,799	231,289	246,544	266,246	276,22	278,519
10	Prismatic coeff. (Cp)	0,551	0,553	0,553	0,548	0,553	0,553	0,551	0,542	0,528	0,524	0,538	0,537	0,51	0,486	0,473	0,476	0,481	0,487	0,493	0,498	0,542	0,637
11	Block coeff. (Cb)	0,375	0,4	0,432	0,444	0,432	0,4	0,375	0,353	0,332	0,345	0,403	0,446	0,437	0,361	0,307	0,279	0,261	0,253	0,25	0,286	0,397	0,637
12	LCB from zero pt. (+ve fwd) m	26,992	26,978	26,973	26,971	26,974	26,98	26,991	27,003	27,016	27,033	27,066	27,103	27,15	27,201	27,24	27,276	27,29	27,29	27,268	27,226	27,193	27,176
13	LCF from zero pt. (+ve fwd) m	23,866	23,716	23,501	23,528	23,502	23,72	23,866	23,95	24,056	23,961	23,756	23,85	24,072	24,365	24,733	25,017	25,268	25,383	25,287	24,679	24,002	23,763
14	Max deck inclination deg	30,103	20,1372	10,2485	2,1392	10,2485	20,1374	30,1029	40,0806	50,0613	60,0452	70,0349	80,0216	90	99,968	109,926	119,8734	129,8182	139,7624	149,7127	159,657	169,4588	176,8837
15	Trim angle (+ve by stern) deg	-3,016	-2,5503	-2,2893	-2,1392	-2,2894	-2,552	-3,0144	-3,6333	-4,499	-5,978	-9,6078	-20,6554	-90	-24,664	-13,8781	-9,9559	-7,7322	-6,2383	-5,0434	-4,0415	-3,4027	-3,1163

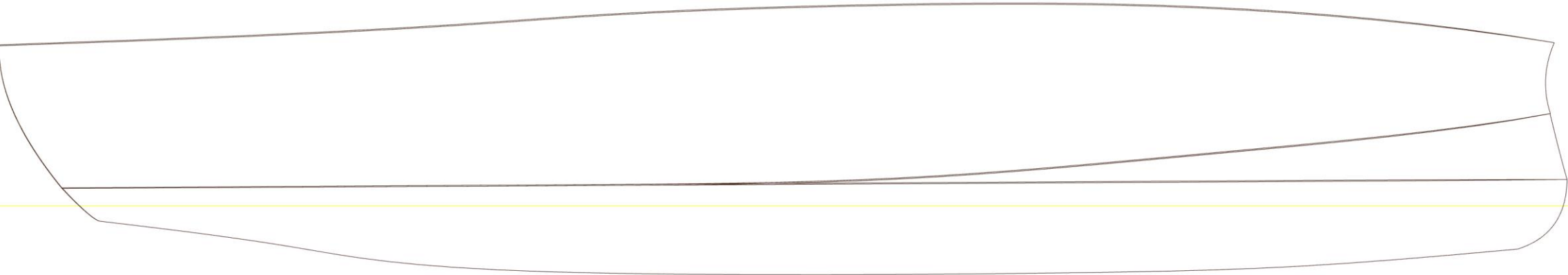
CASE-1 [YOLCU YOK, TANKLAR DOLU]



DISP:249.4 T, TAMID:1.764 M, TRIM:0.499 M, HEEL: -0,3 DEG(STBD)

CASE 1		
1	Draft Amidships m	1,764
2	Displacement t	249,400
3	Heel deg	-0,300
4	Draft at FP m	1,514
5	Draft at AP m	2,013
6	Draft at LCF m	1,757
7	Trim (+ve by stern) m	0,499
8	WL Length m	42,441
9	Beam max extents on WL m	7,458
10	Wetted Area m^2	288,627
11	Waterpl. Area m^2	248,965
12	Prismatic coeff. (Cp)	0,652
13	Block coeff. (Cb)	0,434
14	Max Sect. area coeff. (Cm)	0,756
15	Waterpl. area coeff. (Cwp)	0,787
16	LCB from zero pt. (+ve fwd) m	23,452
17	LCF from zero pt. (+ve fwd) m	21,855
18	KB m	1,124
19	KG solid m	2,857
20	BMt m	3,453
21	BML m	126,380
22	GMt corrected m	1,720
23	GML m	124,647
24	KMt m	4,577
25	KML m	127,494
26	Immersion (TPc) tonne/cm	2,552
27	MTc tonne.m	7,297
28	RM at 1deg = GMt.Disp.sin(1) tonne.m	7,486
29	Max deck inclination deg	0,722
30	Trim angle (+ve by stern) deg	0,672

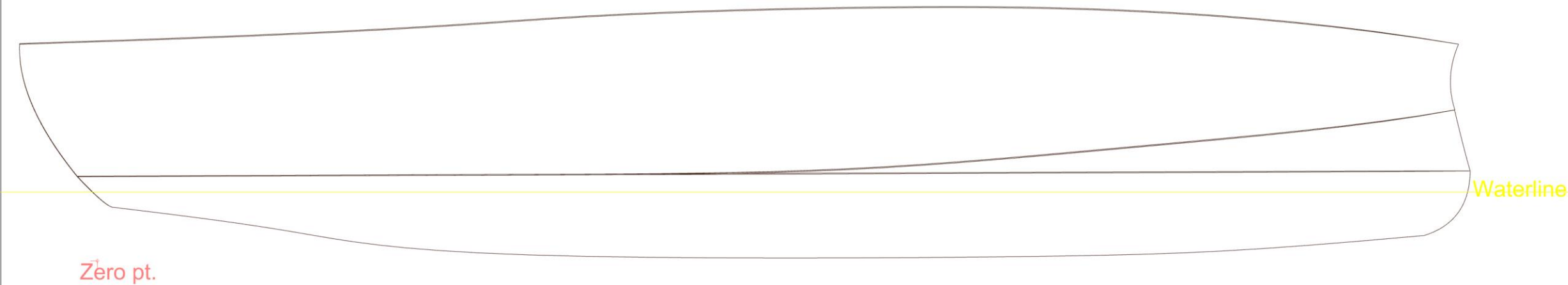
CASE-2 [760 OTURAN-PLANLANAN YOLCU , TANKLAR DOLU]



DISP:309.4 T, TAMID:1.987 M, TRIM:0.245M, HEEL: -0,2 DEG(STBD)

CASE 2		
1	Draft Amidships m	1,987
2	Displacement t	309,400
3	Heel deg	-0,200
4	Draft at FP m	1,864
5	Draft at AP m	2,109
6	Draft at LCF m	1,984
7	Trim (+ve by stern) m	0,245
8	WL Length m	42,688
9	Beam max extents on WL m	7,745
10	Wetted Area m^2	315,289
11	Waterpl. Area m^2	265,296
12	Prismatic coeff. (Cp)	0,645
13	Block coeff. (Cb)	0,461
14	Max Sect. area coeff. (Cm)	0,774
15	Waterpl. area coeff. (Cwp)	0,802
16	LCB from zero pt. (+ve fwd) m	23,759
17	LCF from zero pt. (+ve fwd) m	21,792
18	KB m	1,263
19	KG solid m	2,885
20	BMt m	3,280
21	BML m	110,579
22	GMt corrected m	1,658
23	GML m	108,957
24	KMt m	4,543
25	KML m	111,839
26	Immersion (TPc) tonne/cm	2,719
27	MTc tonne.m	7,913
28	RM at 1deg = GMt.Disp.sin(1) tonne.m	8,954
29	Max deck inclination deg	0,395
30	Trim angle (+ve by stern) deg	0,330

CASE-1 [1000 YOLCU-OLASI KAPASİTE ARTIŞI , TANKLAR DOLU]



DISP:328.6 T, TAMİD:2.055 M, TRİM:0.166 M, HEEL: -0,2 DEG(STBD)

CASE 3

1	Draft Amidships m	2,055
2	Displacement t	328,6
3	Heel deg	-0,2
4	Draft at FP m	1,972
5	Draft at AP m	2,138
6	Draft at LCF m	2,053
7	Trim (+ve by stern) m	0,166
8	WL Length m	42,749
9	Beam max extents on WL m	7,813
10	Wetted Area m^2	323,363
11	Waterpl. Area m^2	269,93
12	Prismatic coeff. (Cp)	0,644
13	Block coeff. (Cb)	0,468
14	Max Sect. area coeff. (Cm)	0,778
15	Waterpl. area coeff. (Cwp)	0,808
16	LCB from zero pt. (+ve fwd) m	23,834
17	LCF from zero pt. (+ve fwd) m	21,755
18	KB m	1,306
19	KG solid m	2,892
20	BMt m	3,228
21	BML m	106,513
22	GMt corrected m	1,642
23	GML m	104,927
24	KMt m	4,534
25	KML m	107,818
26	Immersion (TPc) tonne/cm	2,767
27	MTc tonne.m	8,093
28	RM at 1deg = GMt.Disp.sin(1) tonne.m	9,416
29	Max deck inclination deg	0,303
30	Trim angle (+ve by stern) deg	0,2237

EKSTREM KOŞULLAR

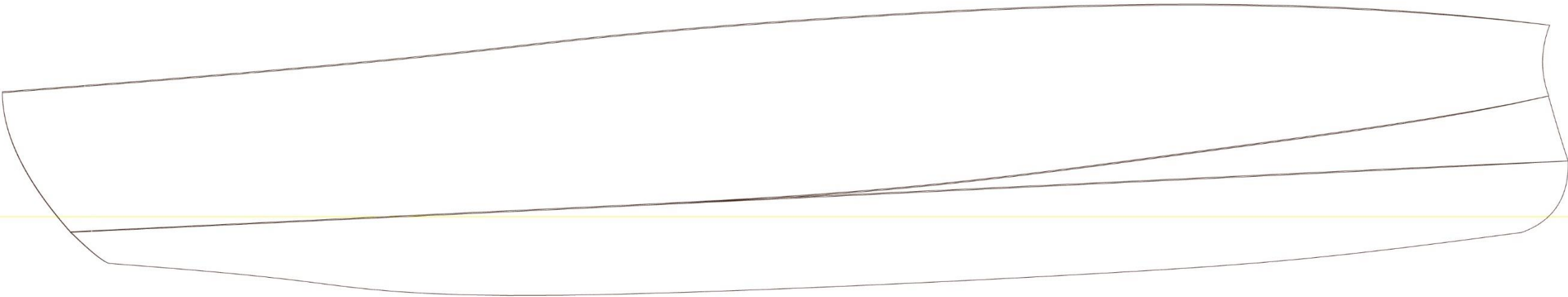
CASE-4 [1000 YOLCUNUN BAŞ TARAFTA 40.POSTADA OLASI TOPLANMASI, TANKLAR DOLU]



DISP:328.6 T, TAMID:1.988 M, TRIM:-1.542 M, HEEL: -0,2 DEG(STBD)

CASE 4		
1	Draft Amidships m	1,988
2	Displacement t	328,600
3	Heel deg	-0,200
4	Draft at FP m	2,759
5	Draft at AP m	1,217
6	Draft at LCF m	2,106
7	Trim (+ve by stern) m	-1,542
8	WL Length m	39,573
9	Beam max extents on WL m	8,054
10	Wetted Area m^2	297,554
11	Waterpl. Area m^2	237,657
12	Prismatic coeff. (Cp)	0,540
13	Block coeff. (Cb)	0,433
14	Max Sect. area coeff. (Cm)	0,802
15	Waterpl. area coeff. (Cwp)	0,746
16	LCB from zero pt. (+ve fwd) m	27,545
17	LCF from zero pt. (+ve fwd) m	24,558
18	KB m	1,363
19	KG solid m	2,892
20	BMt m	2,864
21	BML m	73,231
22	GMt corrected m	1,334
23	GML m	71,701
24	KMt m	4,225
25	KML m	74,546
26	Immersion (TPc) tonne/cm	2,436
27	MTc tonne.m	5,530
28	RM at 1deg = GMt.Disp.sin(1) tonne.m	7,651
29	Max deck inclination deg	2,084
30	Trim angle (+ve by stern) deg	-2,074

EKTREM KOŞULLAR CASE-5 [1000 YOLCUNUN KIÇ TARAFTA 5. POSTADA OLASI TOPLANMASI, TANKLAR DOLU]

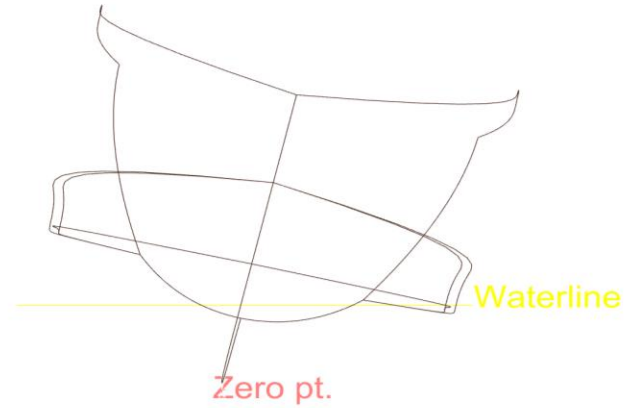


Zero pt.

DISP:328.6 T, TAMID:2.024 M, TRIM:2.02 M, HEEL: -0,2 DEG(STBD)

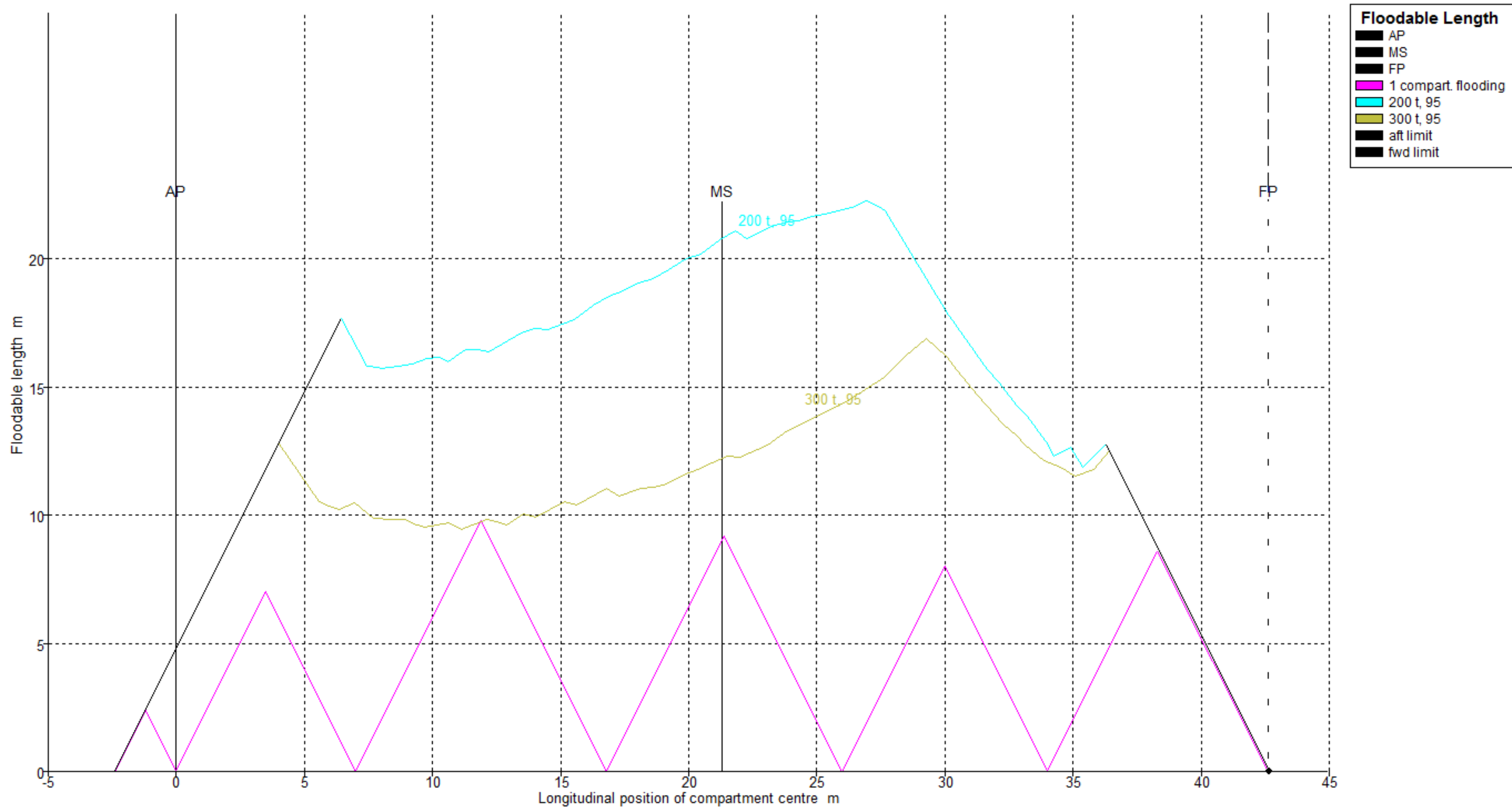
CASE 5		
1	Draft Amidships m	2,024
2	Displacement t	328,600
3	Heel deg	-0,200
4	Draft at FP m	1,015
5	Draft at AP m	3,034
6	Draft at LCF m	2,099
7	Trim (+ve by stern) m	2,020
8	WL Length m	43,055
9	Beam max extents on WL m	7,495
10	Wetted Area m^2	333,598
11	Waterpl. Area m^2	279,524
12	Prismatic coeff. (Cp)	0,766
13	Block coeff. (Cb)	0,438
14	Max Sect. area coeff. (Cm)	0,580
15	Waterpl. area coeff. (Cwp)	0,866
16	LCB from zero pt. (+ve fwd) m	18,904
17	LCF from zero pt. (+ve fwd) m	19,727
18	KB m	1,431
19	KG solid m	2,892
20	BMt m	3,426
21	BML m	114,008
22	GMt corrected m	1,963
23	GML m	112,545
24	KMt m	4,853
25	KML m	115,310
26	Immersion (TPc) tonne/cm	2,865
27	MTc tonne.m	8,680
28	RM at 1deg = GMt.Disp.sin(1) tonne.m	11,260
29	Max deck inclination deg	2,722
30	Trim angle (+ve by stern) deg	2,714

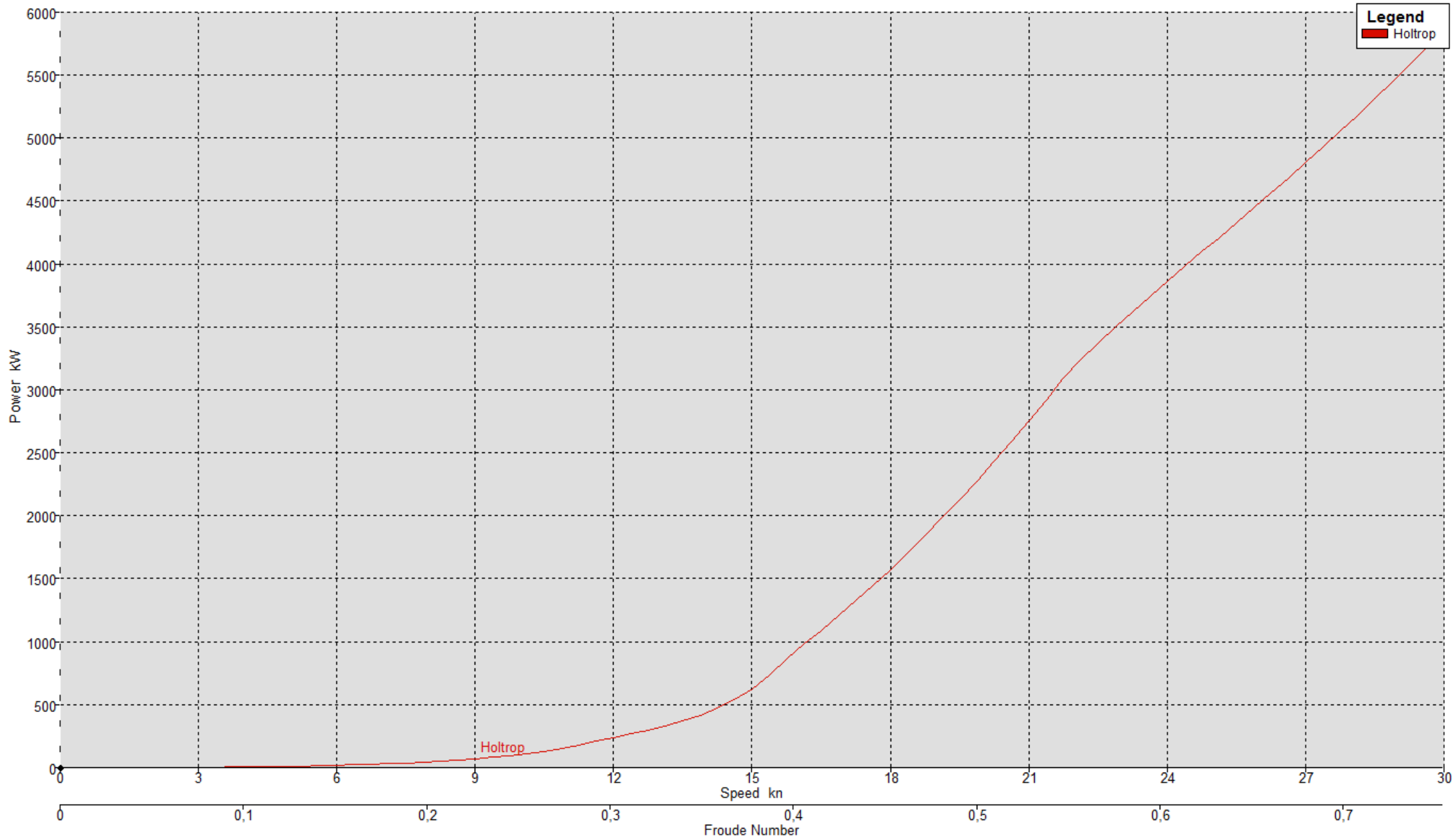
EKSTREM KOŞULLAR
CASE-6 [ANA VE ÜST GÜVERTEDEKİ 67 M² LİK SANCAK ALANINA SİĞABİLECEK
MAKSİMUM YOLCU SAYISI(400) , TANKLAR DOLU]



DISP:328.6 T, TAMID:1.718 M, TRIM:-0.125 M, HEEL: 28,9 DEG(STBD)

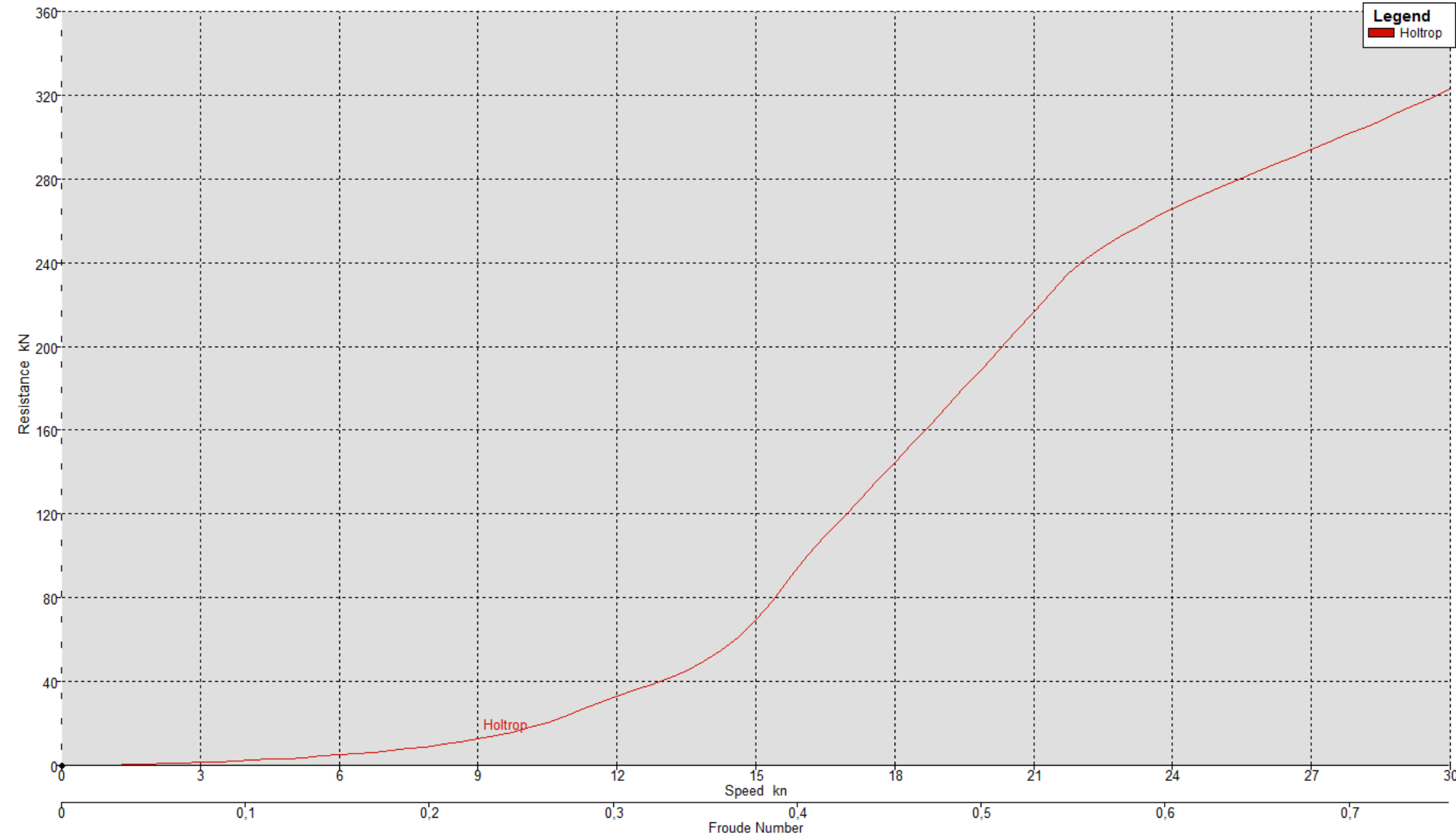
CASE 6		
1	Draft Amidships m	1,717
2	Displacement t	328,6
3	Heel deg	29
4	Draft at FP m	1,78
5	Draft at AP m	1,654
6	Draft at LCF m	1,719
7	Trim (+ve by stern) m	-0,126
8	WL Length m	43,475
9	Beam max extents on WL m	7,542
10	Wetted Area m ²	319,51
11	Waterpl. Area m ²	258,453
12	Prismatic coeff. (Cp)	0,637
13	Block coeff. (Cb)	0,426
14	Max Sect. area coeff. (Cm)	0,669
15	Waterpl. area coeff. (Cwp)	0,788
16	LCB from zero pt. (+ve fwd) m	23,845
17	LCF from zero pt. (+ve fwd) m	21,945
18	KB m	1,69
19	KG solid m	2,892
20	BMt m	2,933
21	BML m	100,883
22	GMt corrected m	1,561
23	GML m	99,51
24	KMt m	4,257
25	KML m	89,964
26	Immersion (TPc) tonne/cm	2,649
27	MTc tonne.m	7,675
28	RM at 1deg = GMt.Disp.sin(1) tonne.m	8,949
29	Max deck inclination deg	28,9543
30	Trim angle (+ve by stern) deg	-0,1692





Holtrop = 0,006 kW Speed = 0,000 kn

Speed (Knot)	Froude (LWL)	Froude (Vol)	Resistance (kN)	Power (kW)	Power (Hp)
0	0	0	--	--	--
1	0,025	0,063	0,2	0,102	0,137
2	0,05	0,127	0,6	0,744	0,998
3	0,076	0,19	1,3	2,387	3,201
4	0,101	0,253	2,3	5,466	7,330
5	0,126	0,316	3,4	10,419	13,972
6	0,151	0,38	4,9	17,797	23,866
7	0,176	0,443	6,7	28,567	38,308
8	0,201	0,506	9,2	44,519	59,700
9	0,227	0,569	12,6	68,627	92,029
10	0,252	0,633	17,3	104,576	140,236
11	0,277	0,696	24,5	162,950	218,516
12	0,302	0,759	33	239,426	321,070
13	0,327	0,823	40,7	320,205	429,395
14	0,352	0,886	51,2	433,460	581,270
15	0,378	0,949	69,2	628,467	842,774
16	0,403	1,012	97,6	945,228	1267,551
17	0,428	1,076	121	1244,797	1669,273
18	0,453	1,139	144,6	1574,907	2111,950
19	0,478	1,202	168,4	1935,919	2596,067
20	0,503	1,265	192,3	2328,195	3122,109
21	0,529	1,329	216,5	2752,095	3690,559
22	0,554	1,392	239,7	3192,194	4280,732
23	0,579	1,455	254,1	3537,277	4743,488
24	0,604	1,519	265,8	3860,378	5176,767
25	0,629	1,582	275,8	4173,228	5596,299
26	0,654	1,645	285,1	4485,887	6015,574
27	0,68	1,708	294,1	4806,143	6445,038
28	0,705	1,772	303,3	5139,691	6892,326
29	0,73	1,835	312,8	5490,556	7362,836
30	0,755	1,898	322,8	5861,528	7860,309



Speed (Knot)	Froude (LWL)	Froude (Vol)	Resistance (kN)	Power (kW)	Power (Hp)
0	0	0	--	--	--
1	0,025	0,063	0,2	0,102	0,137
2	0,05	0,127	0,6	0,744	0,998
3	0,076	0,19	1,3	2,387	3,201
4	0,101	0,253	2,3	5,466	7,330
5	0,126	0,316	3,4	10,419	13,972
6	0,151	0,38	4,9	17,797	23,866
7	0,176	0,443	6,7	28,567	38,308
8	0,201	0,506	9,2	44,519	59,700
9	0,227	0,569	12,6	68,627	92,029
10	0,252	0,633	17,3	104,576	140,236
11	0,277	0,696	24,5	162,950	218,516
12	0,302	0,759	33	239,426	321,070
13	0,327	0,823	40,7	320,205	429,395
14	0,352	0,886	51,2	433,460	581,270
15	0,378	0,949	69,2	628,467	842,774
16	0,403	1,012	97,6	945,228	1267,551
17	0,428	1,076	121	1244,797	1669,273
18	0,453	1,139	144,6	1574,907	2111,950
19	0,478	1,202	168,4	1935,919	2596,067
20	0,503	1,265	192,3	2328,195	3122,109
21	0,529	1,329	216,5	2752,095	3690,559
22	0,554	1,392	239,7	3192,194	4280,732
23	0,579	1,455	254,1	3537,277	4743,488
24	0,604	1,519	265,8	3860,378	5176,767
25	0,629	1,582	275,8	4173,228	5596,299
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27	0,68	1,708	294,1	4806,143	6445,038
28	0,705	1,772	303,3	5139,691	6892,326
29	0,73	1,835	312,8	5490,556	7362,836
30	0,755	1,898	322,8	5861,528	7860,309