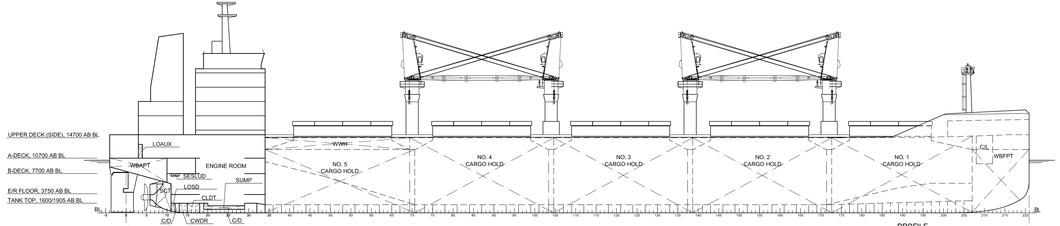
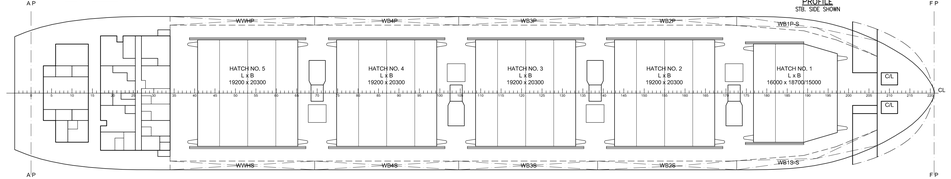
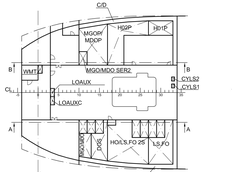


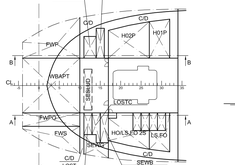
PROFILE
STB. SIDE SHOWN



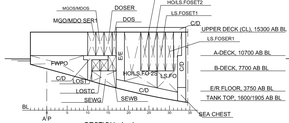
UPPER DECK
14700 AB BL



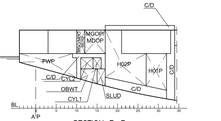
A–DECK
10700 AB BL



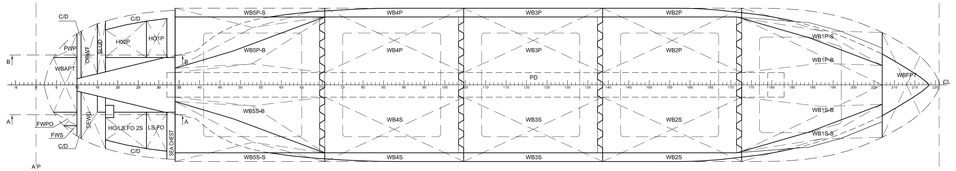
B–DECK
7700 AB BL



SECTION A–A
5350 OFF CL, STB



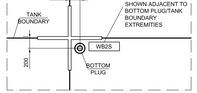
SECTION B–B
5350 OFF CL, PS



TANK TOP

BELOW TANK TOP

2nd ACC. DECK
19000 AB BL



TYPICAL TANK MARK
MARKING OF TANK BOUNDARY, CROSS POINT AND COVER

DANGEROUS SOLID BULK CARGOES (INCLUDING MHB)

UN NUMBER	CARGO	IMO CLASS
1438	Aluminium nitrate	5.1
1942	Ammonium nitrate	5.1
2067	Ammonium nitrate fertilizer, type A	5.1
2071	Ammonium nitrate fertilizer, type B	9.00
1446	Barium nitrate	5.1
	Brown Coal (lignite) Briquettes	MHB
1454	Calcium nitrate	5.1
2969	Castor beans	9.00
	Charcoal	MHB
	Coal, Lump, Pellets, Cold-moulded briquettes	MHB
1363	Copra	4.2
	Direct Reduced Iron (A), briquettes, hot moulded, Direct Reduced Iron (B)	MHB
2793	Ferrous metal borings, shavings, cutting etc	4.2
2216	Fishmeal (fish scrap), stabilized	9.00
	Fluorspar (calcium fluoride)	MHB
1378	Iron oxide, iron sponge, spent	4.2
1469	Lead nitrate	5.1
	Lime (unslaked)	MHB
	Magnesia (unslaked)	MHB
1474	Magnesium nitrate	5.1
	Metal sulphide concentrates	MHB
	Peat moss	MHB
	Petroleum coke calcined or uncalcined	MHB
	Pitch, prill, prilled coal tar, pencil pitch	MHB
1486	Potassium nitrate (saltpetre)	5.1
	Pyrites (calcined)	MHB
2912	Radioactive material, low specific activity material (LSA-1)	7.00
2913	Radioactive material, surface contaminated objects (SCO-1)	7.00
	Sawdust	MHB
1386	Seed cake, Seed cake (b), cont. vegetable oil (a), mechanically expelled seeds	4.2
1498	Sodium nitrate (chile saltpetre)	5.1
1499	Sodium nitrate and potassium nitrate mixture	5.1
1350	Sulphur (lump or coarse grained)	4.1
	Tankage (garbage tankage, ammonia tankage, tankage fertilizer)	MHB
	Vanadium ore	MHB
	Wood chips	MHB
	Wood pellets	MHB
	Wood pulp pellets	MHB

NO.	CARGO HOLDS	FRAME NO. MIN	FRAME NO. MAX	HEIGHT A. BL (m) MIN	HEIGHT A. BL (m) MAX	NET VOLUME GRAIN	NET VOLUME BALE	LCG m	TCG m	VCG m	FSM m4
CHI	NO.1 CARGO HOLD	171+200	207	1.60	17.80	7849.3	7818.7	150.0	0.00	8.85	39730
CHD	NO.2 CARGO HOLD	137+201	170+499	1.60	17.80	9796.4	9524.6	124.5	0.00	8.56	42649
CHS	NO.3 CARGO HOLD	103+200	136+497	1.60	17.80	9783.0	9517.6	96.8	0.00	8.56	42609
CHM	NO.4 CARGO HOLD	69+200	104+494	1.60	17.80	9782.8	9517.2	69.8	0.00	8.56	42608
CHA	NO.5 CARGO HOLD	34	70+497	1.60	17.80	9408.3	9276.2	42.4	0.00	8.91	40262
TOTAL	CARGO HOLDS					46772.0	43684.2				

ID	WATER BALLAST SPG = 1.025 t/m3	FRAME NO. MIN	FRAME NO. MAX	HEIGHT A. BL (m) MIN	HEIGHT A. BL (m) MAX	NET VOLUME 100%	NET VOLUME 98%	LCG m	TCG m	VCG m	FSM m4
WBFPT	FORE PEAK TANK	207	220+759	0.13	13.30	1087.6	1066.0	189.8	0.00	7.18	1639
WB1P-S	NO.1 WT BALLAST P	171+200	207	0.50	15.10	746.6	735.8	162.2	-11.07	7.79	476
WB1S-S	NO.1 WT BALLAST S	172+200	207	0.50	15.10	746.6	735.8	152.2	-11.07	7.79	476
WB1P-B	NO.1 DB BALLAST P	172+200	207	0.00	2.40	377.5	369.9	150.5	-4.68	1.65	1867
WB1S-B	NO.1 DB BALLAST S	172+200	207	0.00	2.40	377.5	369.9	150.5	-4.68	1.65	1867
WB2P	NO.2 LT BALLAST P	138+500	170+300	0.00	14.81	1182.6	1090.6	124.4	-11.49	4.79	4395
WB2S	NO.2 LT BALLAST S	138+500	170+300	0.00	14.81	1182.6	1090.6	124.4	-11.49	4.79	4395
WB3P	NO.3 LT BALLAST P	104+500	136+300	0.00	14.81	1118.7	1096.3	97.3	-11.52	4.74	4534
WB3S	NO.3 LT BALLAST S	104+500	136+300	0.00	14.81	1118.7	1096.3	97.3	-11.52	4.74	4534
WB4P	NO.4 LT BALLAST P	69+200	104+300	0.00	14.81	1113.7	1090.6	70.1	-11.51	4.80	4437
WB4S	NO.4 LT BALLAST S	69+200	104+300	0.00	14.81	1113.7	1090.6	70.1	-11.51	4.80	4437
WB5P-B	NO.5 DB BALLAST P	34	70+300	0.00	1.60	248.3	243.3	46.4	-5.93	0.63	1080
WB5S-B	NO.5 DB BALLAST S	34	70+300	0.00	1.60	248.3	243.3	46.4	-5.93	0.63	1080
WB5P-S	NO.5 WT BALLAST P	34	70+300	0.10	12.40	873.3	854.8	39.7	-12.19	5.62	714
WB5S-S	NO.5 WT BALLAST S	34	70+300	0.10	12.40	873.3	854.8	39.7	-12.19	5.62	714
WBAFT	AFT PEAK TANK	-4	10	6.00	15.70	351.3	344.3	3.4	0.00	8.56	1142
TOTAL	WATER BALLAST					12585.4					

ID	HEAVY FUEL OIL SPG = 0.850 t/m3	FRAME NO. MIN	FRAME NO. MAX	HEIGHT A. BL (m) MIN	HEIGHT A. BL (m) MAX	NET VOLUME 100%	NET VOLUME 98%	LCG m	TCG m	VCG m	FSM m4
HOOV	HFO OVERFLOW TK	27	34	0.00	1.90	20.8	20.3	24.4	-3.27	1.12	12
L3.FO	L3.FO.DEEP TANK S	27	33	3.50	15.30	271.4	266.9	24.6	-9.93	10.70	146
L3.FOSER1	NO.1 L3.FO. SERVICE TK	29	31	7.70	15.30	37.8	37.1	24.6	-7.60	11.60	3
SOTF	NO.1 HFO DEEP TK P	27	33	3.50	14.94	220.6	231.7	21.7	9.90	9.11	370
L3.FOSET1	NO.1 L3.FO. SETTLING TK	27	29	7.70	15.30	37.8	37.1	22.4	-7.60	11.60	3
HO.LS.FOSET2	NO.2 HFO.LS.FO. SETTLING TK	25	27	7.70	15.30	37.8	37.1	26.8	-7.60	11.60	3
HODR	HFO DRAIN TK	24	27	0.00	1.90	6.6	6.5	29.5	-2.79	1.20	3
HO.LS.FOSER2	NO.2 HFO.LS.FO. SERVICE TK	23	25	7.70	15.30	37.8	37.1	26.8	-7.60	11.60	3
HO.LS.FO 25	NO.2 HFO.LS.FO. DEEP TK S	17	27	4.37	15.30	401.1	442.0	17.5	-9.63	10.70	300
SOTP	NO.2 HFO DEEP TK P	17	27	4.37	15.30	440.4	412.0	17.5	9.42	10.24	480
TOTAL	HEAVY FUEL OIL					1547.4					

ID	DIESEL OIL SPG = 0.850 t/m3	FRAME NO. MIN	FRAME NO. MAX	HEIGHT A. BL (m) MIN	HEIGHT A. BL (m) MAX	NET VOLUME 100%	NET VOLUME 98%	LCG m	TCG m	VCG m	FSM m4
DOOV	DO OVERFLOW TK	22	34	6.00	1.90	27.0	26.4	22.3	2.94	1.14	10
DOS	DO DEEP TK S	14	17	10.70	15.30	65.5	64.2	12.5	-10.54	12.83	77
DOSER	DO SERVICE TK	14	16	10.70	15.30	17.3	16.9	12.0	-6.61	13.13	2
TOTAL	DIESEL OIL					109.8					

ID	MARINE GAS OIL SPG = 0.850 t/m3	FRAME NO. MIN	FRAME NO. MAX	HEIGHT A. BL (m) MIN	HEIGHT A. BL (m) MAX	NET VOLUME 100%	NET VOLUME 98%	LCG m	TCG m	VCG m	FSM m4
MGOP/MDOP	MGO/MDO STORES TK P	10	17	10.70	15.30	169.6	166.2	11.1	9.46	12.66	209
MGOS/MDOS	MGO/MDO STORES TK S	10	14	10.70	15.30	86.6	85.1	8.8	-9.92	12.66	90
MGO/MDO SER2	NO.2 MGO/MDO SERVICE TK	10	12	10.70	15.30	17.3	16.9	8.8	6.61	13.13	2
MGO/MDO SER1	NO.1 MGO/MDO SERVICE TK	10	12	10.70	15.30	17.3	16.9	8.8	-6.61	13.13	2
TOTAL	MARINE GAS OIL					291.0					

ID	LUBE OIL SPG = 0.900 t/m3	FRAME NO. MIN	FRAME NO. MAX	HEIGHT A. BL (m) MIN	HEIGHT A. BL (m) MAX	NET VOLUME 100%	NET VOLUME 98%	LCG m	TCG m	VCG m	FSM m4
CYLS2	NO.2 CYLINDER OIL SERV. TK	32+300	33+300	10.70	13.10	1.8	1.7	26.5	3.20	11.40	0
CYLS1	NO.1 CYLINDER OIL SERV. TK	32+300	33+300	10.70	13.10	1.8	1.7	26.5	1.60	11.40	0
SUMP	LO SUMP TK	19	28	0.30	1.20	12.4	12.1	18.8	0.00	0.89	7
CYL1	NO.1 CYLINDER OIL STORAGE TK	14	18	7.70	9.90	20.2	19.8	12.0	8.27	8.90	27
LOSTC	LO STORAGE CLEANING TK	13	15	7.70	9.90	17.4	17.1	11.3	-7.94	8.90	20
CYL2	NO.2 CYLINDER OIL STORAGE TK	11	14	7.70	9.90	22.6	22.0	10.2	7.46	8.90	15
LOST	LO STORAGE TK	11	13	7.70	9.90	14.7	14.4	9.6	-7.46	8.90	10
LOSD	LO STERN TUBE DRAIN TK	11	12	6.16	1.90	2.7	2.6	9.2	-6.11	1.17	3
LOAUX	LO AE STORAGE TK	3	4	10.70	13.10	3.0	2.8	0.00	11.90	0	
LOAUXC	LO AE STORAGE CLEANING TK	3	4	10.70	13.10	3.0	2.8	-1.60	11.90	0	
TOTAL	LUBE OIL					98.9					

ID	FRESH WATER SPG = 1.000 t/m3	FRAME NO. MIN	FRAME NO. MAX	HEIGHT A. BL (m) MIN	HEIGHT A. BL (m) MAX	NET VOLUME 100%	NET VOLUME 98%	LCG m	TCG m	VCG m	FSM m4
FWS	FW TK S	-4	10	7.06	10.70	56.5	55.4	4.6	-9.63	9.80	54
FWP	FW TK P	-4	10	6.00	10.70	124.7	122.2	4.6	7.96	8.42	229
FWPO	FW POTABLE S	-4	10	6.50	10.70	68.1	66.8	3.6	-6.62	9.29	17
TOTAL	FRESH WATER					249.3					

ID	MISC. OIL SPG = 0.900 t/m3	FRAME NO. MIN	FRAME NO. MAX	HEIGHT A. BL (m) MIN	HEIGHT A. BL (m) MAX	NET VOLUME 100%	NET VOLUME 98%	LCG m	TCG m	VCG m	FSM m4
OSDT	OILY SLUDGE DRAIN TANK	19	22	0.30	1.90	3.2	3.1	16.5	3.41	1.31	1
SLUD	SLUDGE OIL TK	13	17	4.91	7.70	26.2	27.6	12.6	8.05	4.46	138
SESLUD	SEPARATOR SLUDGE OIL TK	11	13	7.00	7.70	7.80	7.60	8.60	-0.90	7.26	68
TOTAL	MISC. OIL					39.1					

ID	MISC. WATER SPG = 1.000 t/m3	FRAME NO. MIN	FRAME NO. MAX	HEIGHT A. BL (m) MIN	HEIGHT A. BL (m) MAX	NET VOLUME 100%	NET VOLUME 98%	LCG m	TCG m	VCG m	FSM m4
WWHP	WASH WATER HOLDING TK P	34	69+300	12.40	14.81	119.9	106.7	41.4	-14.14	13.58	12
WWHS	WASH WATER HOLDING TK S	34	69+300	12.40	14.81	119.9	106.7	41.4	-14.14	13.58	12
FDT	FEED WATER DRAIN TK	18	23	5.16	1.90	5.4	5.3	16.7	-0.42	1.31	1
CLDT	CLEAN DRAIN TK	15	18	0.00	1.90	16.3	15.9	13.2	0.06	1.26	21
DSWB	BLACK W. SERVAGE HOLD. TK	15	17	7.70	10.70	27.5	27.0	12.4	-9.27	9.26	27
CWDR	COOL. WATER DRAIN TK	13	15	0.00	1.90	8.7	8.6	11.2	0.00	1.09	9
DSWG	GREY W. SERVAGE HOLD. TK	11	17	5.20	10.70	93.9	91.9	11.5	-9.20	7.65	256
OBWT	OIL Y BILGE WATER HOLD. TK	11	13	5.20	7.70	43.0	42.1	10.5	5.31	6.83	199
SCT	STERN TUBE COOL. TK	6+336	11	0.34	6.11	18.4	16.1	7.8	0.00	2.76	2
WMT	WATER MIST FW TANK	0	1	10.70	13.30	5.8	5.7	0.4	4.55	13.00	0
TOTAL	MISC. WATER					438.8					

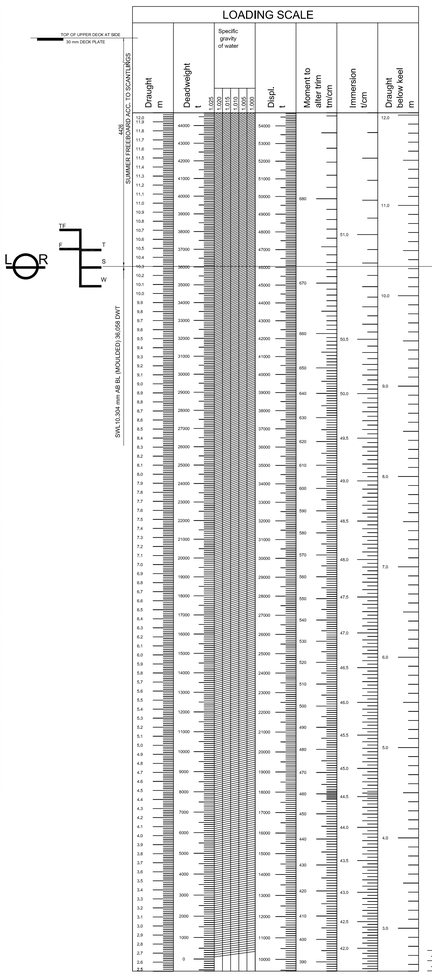
ID	SMALL MIS. TANK SPG = 1.000 t/m3	FRAME NO. MIN	FRAME NO. MAX	HEIGHT A. BL (m) MIN	HEIGHT A. BL (m) MAX	NET VOLUME 100%	NET VOLUME 98%	LCG m	TCG m	VCG m	FSM m4
MGO EG	E G SER.STOR MGO TANK	6	8	19.50	20.80	0.8	0.8	5.8	6.48	20.15	0
S.M.T1	GRAVITY TANK FOR ST L.O	15	16	13.50	14.80	0.1	0.1	10.4	5.03	14.00	0
S.M.T2	EXPANSION TANKS FOR FW COOL.	3	5	19.30	20.50	1.0	1.0	3.0	-2.68	19.90	0
S.M.T3	EXPAN.TANK FOR FW COOS OF A/E	3	5	19.30	20.50	1.0	1.0	3.0	-5.33	19.90	0
TOTAL	SMALL MIS. TANK					2.9					

ID	TANK MARKS ON HULL
FSM	FREE SURFACE MOMENT

FLAT FLOOR TANKTOP AREA				
HOLD NO.	BREADTH AFT (m)	BREADTH FORE (m)	LENGTH (m)	AREA (m^2)
1	26.0	7.6	27.5	480
2	26.6	26.6	26.2	697
3	26.6	26.6	26.2	697
4	26.6	26.6	26.2	697
5	6.5	25.9	28.3	444
				3015

MAX. ALLOWABLE UNIFORM DISTRIBUTED LOADING (UDL)	
TANKTOP CARGO HOLD 1, 2, 3, 4 & 5	25.0 t/m^2
HATCH COVERS	2.5 t/m^2
UPPER DECK	4.0 t/m^2

STEEL COIL LOADING	
ALL CARGO HOLDS	2 TIERS OF 22.5 t (EACH) COILS ON 5 WOODEN DUNNAGES, MINIMUM COIL LENGTH 1.75m
	For other coil specification, see Cargo Loading Manual



MAIN DIMENSIONS	
LENGTH OVER ALL	180.000 m
LENGTH BETWEEN P.P.	176.750 m
BREADTH MOULDED	30.000 m
DEPTH MOULDED TO UPPER DECK	14.700 m
SCANTLING DRAUGHT MLD.	10.304 m
DEADWEIGHT, SCANTLING DRAFT MLD.	36,059 t
LIGHTSHIP WEIGHT	10,015.51
SERVICE SPEED AT SCANTLING DRAFT	14.0 knots
ENDURANCE	18,000 Nm
COMPLEMENT	25 PERS.
GROSS TONNAGE	24163
NET TONNAGE	12065

PARTICULARS	
MAIN ENGINE	WARTSILA 5RT-flex50-D , MCR: 6350KW/99rpm; NCR 5677KW 95.4RPM
AUX ENGINES	MAN B&W 5L23/30H; MCR: 650KW/720rpm; eMCR:610KW THREE SETS
COMPOSITE BOILER	MISSION OC : 1500kg+600kg/h; ONE SET
BALLAST PUMPS	800m3/h; 3bar 99kW; TWO SETS

SHIP EQUIPMENTS	
CARGO CRANES AND GRABS	GLBE 30.526-20/426gr
PROVISION/RAFT CRANE MOB CRANE	HDC3-10
WINDLASS	EAMW 68K3 147kN
MOORING WINCH	EMW 147kN
LIFE RAFTS	SMLR-A-6/SMLR-A-25/RAFT-D-25
FREE FALL LIFE BOAT	JY866FC
RESCUE BOAT	SC45K

SEASTALLION 35 - ALKYON

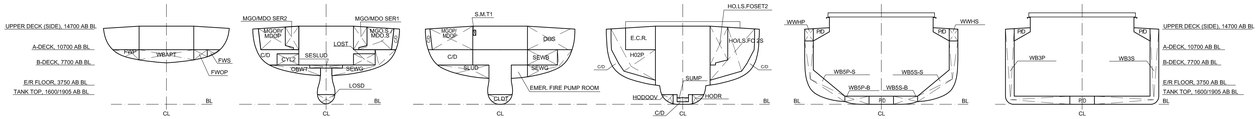
MAIN PARTICULARS

G 005-02

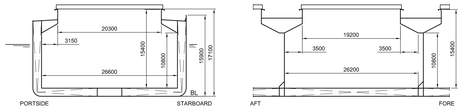
NAME	DELIVERED	YARD No.	IMO No.
ALKYON	Jan. 2015	JLZ9110430	9655224

GENERAL	
OWNER	STALLION EIGHT SHIPPING Co.S.A.
BUILT BY	CSC JINLING SHIP YARD, P.R.CHINA
CLASS	LR ✠100A1 , Bulk Carrier, CSR, BC-A (Holds 2 and 4 may be empty), ShipRight(CM,ACS(B),SDA,FDN),ESP,LI,*IWS,CG With the descriptive notes "ShipRight(BWMP(S+P)),Green Passport"
FLAG	MARSHALL ISLANDS
PORT OF REGISTRY	MAJURO
COMMUNICATIONS	CALL SIGNALS: V7CH6
	INMARSAT-FBB: TEL: . . FAX:
	INMARSAT-C:TLX: 453840345
	MMSI NO: 538005855
	E-MAIL:

Revision/Description	Dgn./Eng.	Control	Approval	Date
- -	-	-	-	-
- -	-	-	-	-
- -	-	-	-	-
- -	-	-	-	-



FRAME 0.5 | FRAME 11.5 | FRAME 16.5 | FRAME 25.5 | FRAME 50 | TRANSVERSE SECTION



CARGO HOLD DIMENSIONS

FREEBOARD PARTICULARS MAX.				
FREEBOARD DESCRIPTION	DENS. (T/M³)	DRAFT MOULDED (M)	DISPLACEMENT (MT)	DEADWEIGHT (MT)
TF	TROPICAL FRESH	1.000	10.745	47142
F	FRESH	1.000	10.530	46073
T	TROPICAL	1.025	10.519	47169
S	SUMMER	1.025	10.304	46074
W	WINTER	1.025	10.089	44980

Grontmij
Marine
Naval Architects - Marine Engineers - Surveyors
Grasskoven 8
DK-2600 Glostrup
Denmark
Phone: +45 43 48 60 60
Fax: +45 43 48 60 60

Scale	Size	Dgn./Eng.	Control	Approval	Date
1:400	1260x840	WHF	RUJ	TAW	2014-12-26

Job: SEASTALLION 35 - JLSY
JINLING SHIPYARD NOS. JLZ9110430

Job No.: 40.5575.00.30

Subject: FINAL CAPACITY PLAN

Drawing No.: 005-02 0

Class	-
Owner	-
Yard	-