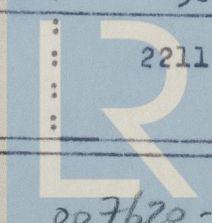


Below Assumed Neutral Axis.

N.A. Assumed at 24'-0" above top of Keel.

Item.	Scantlings	Area	Lever	Moment	Moment of Inertia
"A" Girder: Plate	97.47 x .66	64.3	19.9	1279	25460
Top Angles	8x6x $\frac{3}{4}$ x2	23.0	16.1	370	5960
Bottom Angles	6x6x52	6.0	23.9	143	3420
"B" Girder: Plate	96.75 x .66	63.8	19.9	1270	25270
Top Angles	8x6x.87	11.5	16.1	185	2980
Bottom Angles	6x6x52	6.0	23.8	143	3400
"C" Girder: Plate	94.5 x .66	62.4	19.8	1236	24470
Top Angles	8x6x $\frac{3}{4}$	11.5	16.1	185	2980
Bottom Angles	6x3x52	6.0	23.6	142	3340
"D" Girder: Plate	94 x .66	62.0	19.8	1227	24300
Top Angles	8x6x $\frac{3}{4}$ x2	23.0	16.1	370	5960
Bottom Angles	6x6x52	6.0	23.6	142	3340
Inner Bottom:					
Middle line	$\frac{1}{2}$ x144x1.25	90.0	15.8	1422	22470
Outer Thick Strake	90 $\frac{1}{2}$ x1.25	113.4	15.8	1792	28320
Remainder Continuous	130 x .62	80.6	15.9	1282	20370
Gusset	24 x .62	14.9	15.2	227	3440
Margin Plate: Top & Bottom:	43 x .64	27.5	16.8	462	7760
Margin Angles:	6x6x64x(2)	14.5	16.6	241	4000
Shell: Keel Plates	80.5x.96x $\frac{1}{2}$	38.6	24.0	927	22240
A Strake	66.25 x .72	47.7	24.0	1145	27470
B "	76.25 x .72	54.9	23.9	1312	31370
C "	76.75 x .72	55.3	23.8	1316	31330
D "	76.25 x .72	54.9	23.6	1296	30580
E "	77.5 x .72	55.8	22.9	1278	29260
F "	49.5 x .72	35.6	21.3	758	16150
G "	72.5 x .72	52.2	17.7	924	16360
H "	78.0 x .72	56.2	12.1	680	8230
J "	89.0 x .72	62.6	5.8	363	2110
Total Below Assumed Neutral Axis.		1200.2		22117	432340



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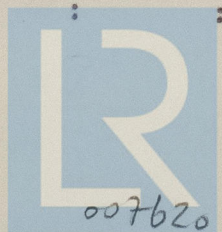
Lloyd's Register

Foundation

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Above Assumed Neutral Axis.

Item.	Scantlings	Area	Lever	Moment	Inertia
<u>Promenade Deck:</u> Str. Plate	72 x .54	38.9	36.1	1404	50700
Plating	64 x .46	29.4	36.3	1067	38750
"	64½ x .46	29.7	36.5	1084	39580
"	64½ x .46	29.7	36.7	1090	40000
"	64½ x .46	29.7	36.8	1093	40200
"	44 x .46	20.2	36.9	745	27500
Str. Angles	6 x 6 x .54	6.2	35.8	222	7940
<u>Bridge Deck:</u> Str. Plate	45½ x .50	22.8	27.6	629	17350
Plating	61 x .46	28.1	27.8	781	21710
"	64½ x .46	29.7	28.0	832	23290
"	64 x .46	29.4	28.2	829	23370
"	64½ x .46	29.7	28.3	841	23790
"	43 x .46	19.8	28.4	562	15970
<u>Upper Deck:</u> Str. Plate	45½ x .44	20.0	18.6	372	6920
Plating	64½ x .40	25.8	18.6	480	8930
"	61 x .40	25.6	18.7	479	8960
"	64 x .40	25.6	18.7	479	8960
"	32 x .50	16.0	18.8	301	5660
<u>Second Deck:</u> Str. Plate	45½ x .34	15.5	10.6	164	1740
Plating	62½ x .28	17.4	10.6	184	1960
"	63½ x .28	17.8	10.7	190	2040
"	31½ x .28	8.8	10.7	94	1010
<u>Third Deck:</u> Str. Plate	45½ x .34	15.5	2.5	39	100
Plating	64 x .30	19.2	2.6	50	130
"	64 x .30	19.2	2.7	52	140
"	23 x .30	6.9	2.7	19	50
<u>Shell:</u> L Strake	79½" x .72	57.1	0.6	34	20
M "	78" x .72	56.2	6.6	371	2450



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Lloyd's Register

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Item	Scantlings	Area	Lever	Moment	Inertia
<u>Shell:</u>					
N Strake	63 $\frac{1}{2}$ x .72	45.9	12.1	556	6720
O "	62 $\frac{1}{2}$ x .72	45.0	16.9	760	12850
P "	50" x .70	35.0	21.1	738	15580
Q "	71 $\frac{1}{2}$ x .70	50.1	25.7	1287	33090
R "	93" x .70	65.1	32.2	2096	67470
Curtain Plate	15 x .44	6.6	35.9	237	8510
Total above A. N. A.		937.6		20161	563440

S U M M A R Y

Item.	Area.	Lever	Moment	Inertia
Below Assumed Neutral Axis.	1200.2		22117	432340
Above " " "	937.6		20161	563440

2137.8 .915 1956 995780
1790

993990
2

Moment of Inertia = 1987980

Promenade Deck above Assumed Neutral Axis. = ~~36.56~~ 36.06
.915

y = ~~37.475~~ 36.975

Modulus of Section = $\frac{1987980}{37.475}$ = ~~53048~~ 53765

Draught Permitted = $\frac{36.975}{53048}$ = ~~36.7~~ 37.22
19.53 x 74

NOTE:- (1) The continuous double bottom girders A, B, C & D are assumed to contribute to the modulus: the top and bottom angles are all strapped at the butts. The top of the drain tank is assumed not to contribute to the modulus.

(2) The widths of the keel and bottom strakes have been measured from the shell plan.

