

J.2

S/S "BELFAST MARU"

(Kawasaki Dryd No. 480)

403 x 53 x 37 to Awning Deck, 29 to Upper Deck.

Section in way of
Boiler Space (frame 96)

Assumed N. A = 15 ft above base.

Below Assumed Axis

Above Assumed Axis

	Scantlings	Area	H	Ah	Ah ²	Item	Scantlings	Area	H	Ah	Ah ²
	1/2 x 47 x 1.00	23.50	15.04	353.4	5320	Aw. Dk. Str. Plating	55 x .54	29.70	22.23	660.2	14680
Plate	1/2 x 43 x .60	12.90	13.13	169.5	2230	" " " Doubling	52 x .44	22.88	22.27	509.5	11350
Angles	4 1/2 x 4 1/2 x .60	5.04	14.89	75.0	1120	" " " Plating	23 x .40	9.20	22.55	207.5	4670
"	1 1/2 x 4 1/2 x 60	2.52	11.53	29.1	330	" " Plating	60 x .42	25.20	22.75	573.3	13040
ke	1/2 x 43 x .56	12.04	11.40	137.3	1570	" " "	44 x .44	19.36	22.90	443.0	10140
"	63.0 x .56					" " Str. Angle	5 x 5 x .60	5.64	22.15	124.9	2770
"	63.25 x .56					Up. Dk. Strake	40 x .48	19.20	14.23	273.2	3890
"	63.25 x .56	141.40	11.40	1612.0	18380	" " Plating	63 x .40	25.20	14.50	364.9	5290
"	63.0 x .56					" " "	51 x .40	20.40	14.70	300.0	4410
"	44.0 x .58	25.52	13.95	330.5	4280	" " "	30 x .42	12.60	14.90	187.7	2800
"	6.0 x .58	3.49	11.40	39.7	450	" " Str. Angle	3 1/2 x 3 1/2 x .48	3.13	14.10	44.1	620
"	4 x 4 x .48	3.61	14.35	51.8	740	Double for Coal Hth	30 x .40	12.00	14.90	178.8	2660
A	72 x .64	46.08	14.95	688.9	10300	Side Str. Angle	7 x 3 1/2 x .58	5.75	4.30	24.7	110
B	72 x .64	46.08	14.95	688.9	10300	Sheer Strake	47 x .68	31.96	20.71	661.9	13710
C	72 x .64	46.08	14.9	686.6	10230	Shell Strake L	58 x .64	37.12	16.83	624.8	10520
D	59 x .64	37.76	14.85	560.7	8220	" " K	72 x .64	46.08	11.85	546.0	6470
E	72 x .64	46.08	13.50	622.1	8390	" " J	72 x .64	46.08	6.29	289.8	1820
F	51 x .64	32.64	9.52	310.7	2960	" " H	44.75 x .64	28.64	1.86	53.3	100
G	72 x .64	46.08	4.83	222.6	1070			420.14		6067.6	109050
H	27.25 x .64	17.44	1.14	19.9	20	Below Assumed Axis :-		548.25		6598.7	66010
		548.25		6598.7	86010			968.39	Below	531.1	19500

Neutral Axis below assumed axis = .55

Correction :- 290 x 2 = 580

Moment of Inertia (corrected) :- = 389540

Lever :- = 22.55

Modulus of Section :- = 17270

Modulus of Section required to give 28.21 feet moulded draught =

11.46 x 53.0 x 28.21 = 17140



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