

S/S "BELFAST MARU"

(Kawasaki Dkyd 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 feet above base.

Below Assumed Axis

Above Assumed Axis.

Scantlings	Area.	H	Ah	Ah <sup>2</sup>	Item	Scantlings	Area	H	Ah	Ah <sup>2</sup>
Plate : 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
Angles : 1/2 x 43 x .60	:12.90	:13.13	:169.5	: 2230	: " " " Doubling	: 45 x .52	:23.40	:22.27	:521.2	: 11610
" : 1/2 x 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
Strake : 1/2 x 43 x .56	:12.04	:11.40	:137.3	: 1570	: " " " Plating	: 60 x .42	:25.20	:22.75	:573.3	: 13040
ting : 63.0 x .56 )	:	:	:	:	: " " " "	: 44 x .44	:19.36	:22.90	:443.0	: 10140
: 63.25 x .56 )	:	:	:	:	: " " Str. Angle	: 5 x 5 x .60	: 5.64	:22.15	:124.9	: 2770
: 63.25 x .56 )	:141.40	:11.40	:1612.0	: 18380	:Up. Dk. Strake	: 40 x .48	:19.20	:14.23	:273.2	: 3890
: 63.0 x .56 )	:	:	:	:	: " " Plating	: 63 x .40	:25.20	:14.50	:364.9	: 5290
ate : 44.0 x .58	:25.52	:12.95	:330.5	: 4280	: " " " "	: 51 x .40	:20.40	:14.70	:300.0	: 4410
: 6.0 x .58	: 3.48	:11.40	: 39.7	: 450	: " " " "	: 30 x .42	:12.60	:14.90	:187.7	: 2800
le : 4 x 4 x .48	: 3.61	:14.35	: 51.8	: 740	: " " Str. Angle	: 3 1/2 x 3 1/2 x .48	: 3.13	:14.10	: 44.1	: 620
ake A : 72 x .64	:46.08	:14.95	:688.9	:10300	:Doublg for Coal Hch	:30 x .40	:12.00	:14.90	:178.8	: 2660
B : 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
C : 72 x .64	:46.08	:14.9	:686.6	:10230	:Sheer Strake	: 47 x .68	:31.96	:20.71	:661.9	: 13710
D : 59 x .64	:37.76	:14.85	:560.7	: 8320	:Shell Strake L	: 58 x .64	:37.12	:16.83	:624.8	: 10520
E : 72 x .64	:46.08	:13.50	:622.1	: 8390	: " " K	: 72 x .64	:46.08	:11.85	:546.0	: 6470
F : 51 x .64	:32.64	: 9.52	:310.7	: 2960	: " " J	: 72 x .64	:46.08	: 6.29	:289.8	: 1820
G : 72 x .64	:46.08	: 4.83	:222.6	: 1070	: " " H	:44.75 x .64	:28.64	: 1.86	: 53.3	: 100
H : 27.25 x .64	:17.44	: 1.14	: 19.9	: 20			:420.66		:6079.3	:109310
	548.25		6598.7	86010	Below Assumed Axis :-		548.25		6598.7	86010
							968.91 below	519.4	195320	2
										390640

Neutral Axis below assumed axis = .57

Correction :- 300 x 2 = 600

Moment of Inertia (corrected) = 390040

Lever :- = 22.57

Modulus of Section :- = 17280

Modulus of Section required to give 28.21 feet moulded draught

$$= 11.46 \times 53.0 \times 28.21 = 17140$$



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