

# TRANSVERSE FRAMING.

YARD NUMBER  $\frac{5}{8}$  "Belfast Maru" (Kawasaki Dockyard No. 480)

DIMENSIONS 405 x 53 x 37 to awning. 29 to upper deck.

FRAME SPACING  $.025 \times 405 + .17 = 27.13$

SIDE PLATING  $.105 \times 405 + .17 = .60$

IN SHIP (1) = 26"

(2) = .64

DRAUGHT  $d = \frac{\text{mach. space}}{28.21}$

$t = 5.00$

$(d-t) = 23.21$

$\text{Geometric draught} = \frac{\text{Holds}}{4.88}$   
 $\frac{28.21}{4.88} = 23.33$

$4.0 + 4.63 f_1 = 51.00$

$.5 + 25.0 f_2 = 2.10$

$(f_1 + f_2) = 53.10$

$I/y = \frac{s (d-t) (f_1 + f_2)}{1000}$

$\text{space} = \frac{26 \times 23.21 \times 53.10}{1000} = 32.05$

$\text{frame} = \frac{32.05}{\left[ \frac{3\frac{1}{2}}{10} \right] \times .78} = 47.7$

including plating AT 26" SPACING

actual frame = 58.1

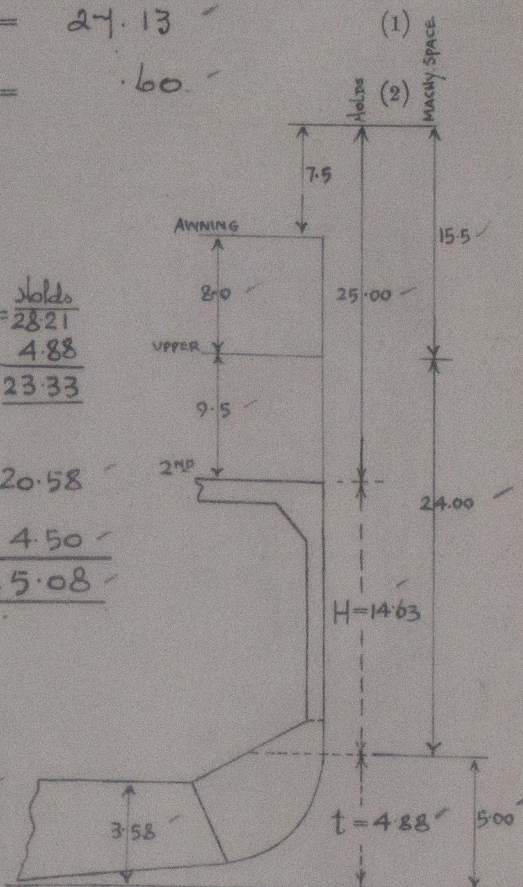
IN SHIP =  $9\frac{1}{2} \times 3\frac{1}{2} \times .55$  BA AT 26" SPACING

$I/y = 17.05$

Permissible draught =  $\frac{17.05 \times 1000}{26 \times 25.08} + 4.88$

= 31.03 ft

Geometric draught = 28.21 ft

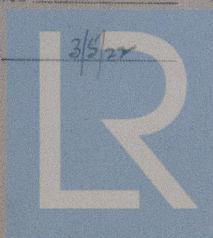


VALUES OF  $f_1$  &  $f_2$ .

H IN FEET.	$f_1$	K IN FEET.	$f_2$
0	9	0	0
8	11	5	.5
10	12.5	10	1.0
12	15	15	2.0
14	19	20	3.0
16	24	25	4.5
18	29.5	30	6.5
20	36	35	9.0
22	48	40	12.0
24	51		
26	59		

Initials *Gov.*

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