

# TRANSVERSE FRAMING.

NAME AND YARD NUMBER *"Hakozaki Maru" (Mitsubishi, Nagasaki No. 348)*

MOULDED DIMENSIONS *495 x 62 x 37.*

STANDARD FRAME SPACING  $\cdot 025 \times 495 + \cdot 17 = 29.375$  (1)

MINIMUM SIDE PLATING  $\cdot 105 \times 495 + \cdot 17 = \cdot 69$  (2)

IN SHIP <sup>\*</sup>  
 (1) = *36"*  
 (2) = *.82 [ .69 x  $\sqrt{\frac{36}{29.375}} = .76 ]$*

MOULDED DRAUGHT  $d = 28.95$   
 $t = 6.54$   
 $(d - t) = 22.41$

$H = 21.71$   $f_1 = 41.98$

$K = 21.25$   $f_2 = 3.38$

$(f_1 + f_2) = 45.36$

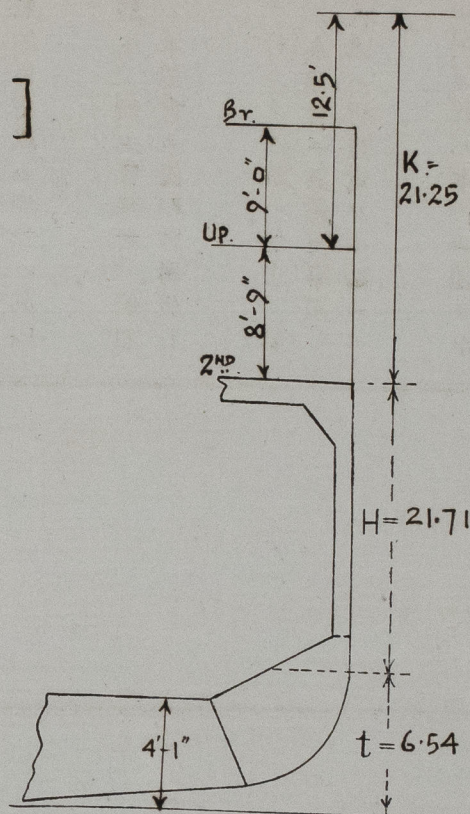
STANDARD  $I/y = \frac{s (d - t) (f_1 + f_2)}{1000}$   
 $= \frac{36 \times 22.41 \times 45.36}{1000} = 36.6$

Standard frame  $I/y = 36.6$   
 $= 12 \times \frac{3\frac{1}{2}}{3\frac{1}{2}} \times \frac{3\frac{1}{2}}{3\frac{1}{2}} \times .66$

$= 57.8$  including plating AT *36"* SPACING  
 $\frac{1}{2}$  Actual frame 83.3 " " " "  
 $\frac{1}{2}$  Table 2 frame 81.0 " " " "

ME IN SHIP  $= 12 \times 3\frac{1}{2} \times 3\frac{1}{2} \times .56$  AT *36"* SPACING  
 with  $3\frac{1}{2} \times 3\frac{1}{2} \times .56$

$I/y = 83.3$  (including plating)



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	43	40	12.0
24	51		
26	59		

Initials *Gr.*

Date *8/5/22*

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