

PARTICULARS OF RUDDER:-

RUDDER AREA: TOTAL AREA	A	23.78 ^{m²} (255.98 ^{sq ft})
ABAFT PINTLE CR.	A _a	17.52 ^{m²} (188.59 ^{sq ft})
AHEAD PINTLE CR.	A _f	6.26 ^{m²} (67.39 ^{sq ft})
HEIGHT OF RUDDER	H	6.50 M (21.32')
BREADTH OF RUDDER (MEAN)	B	3.87 M (12.69')
THICKNESS OF RUDDER	t	0.72" (2.36')
RUDDER AREA RATIO	$\frac{1}{2} \cdot d = \frac{23.78}{17.52 + 6.26}$	$\frac{1}{653}$
BALLASTING RATIO	$\frac{A_f}{A_a}$	0.356
ASPECT RATIO	$\frac{H}{B}$	1.68
THICKNESS BREADTH RATIO	$\frac{t}{B}$	0.19
SEA SPEED IN KNOTS		14 1/2 K
DISPLACEMENT OF RUDDER IN SEA WATER (SPECIFIC GRAVITY 1.025)		1.10 T
WEIGHT: RUDDER STOCK		5.360
RUDDER		15.120

NOTE:-
CARBON CONTENT OF CASTING NOT EXCEED .23%
MATERIALS ARE MILD STEEL PLATES EXCEPT AS SHOWN

1 MARK TO BE SMOOTHED
2 TO BE ROUGH TOOL FINISHED
3 TO BE NORMAL TOOL FINISHED
4 TO BE FINE TOOL FINISHED

FINISHED PLAN

METAL MARU
TITLE
RUDDER
(INCLUDING STOCK)

SCALE 1/4" = 1'-0"

KAWASAKI DOCKYARD CO. LTD.
KOBES JAPAN
SHIPDESIGNING DEPARTMENT

CHIEF OF DEPARTMENT *T. Kato*
CHIEF OF SECTION *M. Yamashita*
CHECKED BY *M. Yamashita*
DRAWN BY *K. Ohtsuka*
DATE: *10.29.51*

DRAWING NO. **A-15**

Rudder.



Metai Manu.

RECORDS DEPT.
LONDON

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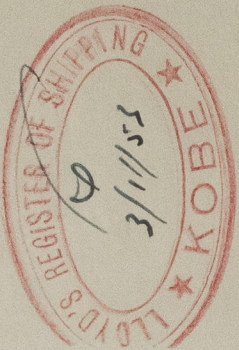


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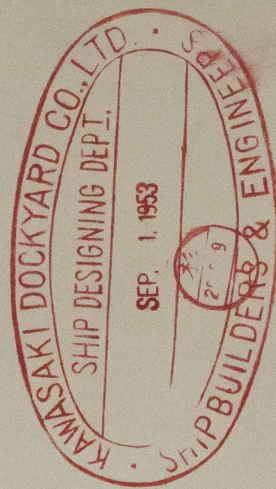
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TO LLOYDS REGISTER OF SHIPPING



CERTIFIED COPY OF "APPROVED PLAN"

AS BUILT



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