

PRELIMINARY

FOR SCANTLINGS ONLY.

METRIC UNITS.

Rpt. C.11 (Comp.)

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING
SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received
Index No.
Govt. Copy
Owners C11

Ship's Name NAKSKOV. YARD NOS. 172/3.	Official Number	Nationality and Port of Registry RUSSIAN.	Gross Tonnage	Date of Build	Port of Survey COPENHAGEN.
Moulded Dimensions: Length 148.20 Breadth 21.19 Depth 13.10 Freeboard Length 148.20 to top of rudder stock Moulded displacement at moulded draught = 85 per cent. of moulded depth tons (excluding bossing) Coefficient of fineness for use with Tables < 0.68					Date of Survey NOV. 1962.
					Surveyor's Signature Oben.
					Particulars of Classification + 100 A1. CONTEMPLATED.

DEPTH FOR FREEBOARD (D). M. Moulded depth ... 13.100 Stringer plate ... 34 m/m ... 0.34 Wood Sheathing on exposed deck ... $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 13.134	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = 8.33 (13.134 - 9.886) 36 = +813 m/m 3.254 (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 21.19 m Standard Round of Beam = $\frac{B \times 42}{50} =$ 424 m/m Ship's Round of Beam = 375 Difference 49 Restricted to 12.25 x 7888 Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S}{L} \right) =$ +10 m/m
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DEDUCTION FOR SUPERSTRUCTURES.

Class II closing appliances in Fore Bld.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	31.295	31.295	2.45	-	31.295
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	31.295	31.295			31.295

Standard Height of Superstructure **2.29**
" " R.Q.D. -
Deduction for complete superstructure **1067.0 m/m**
Percentage covered $\frac{S}{L} =$ **.2112**
" $\frac{S_1}{L} =$ **.2112**
" $\frac{E}{L} =$ **.2112**
Percentage from Table, Line A. **10.56%**
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. -
(corrected for absence of forecastle (if required))
Interpolation for bridge less than .2L (if required)
Deduction = **1067 x 10.56 = 113 m/m**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	1489	1		1489	900	900	1		900
$\frac{1}{2}$ L from A.P. ...	661	4		2644	122	122	4		488
$\frac{2}{3}$ L " ...	165	2		330	0	0	2		0
Amidships ...	0	4		0	0	0	4		0
$\frac{2}{3}$ L from F.P. ...	331	2		662	0	0	2		0
$\frac{1}{2}$ L " ...	1323	4		5292	514	514	4		2056
F.P. ...	2977	1		2977	1800	1800	1		1800
Total ...				13394					5244

Mean actual sheer aft
Mean standard sheer aft = } *Deficient*
Mean actual sheer forward
Mean standard sheer forward = }
Length of enclosed superstructure forward of amidships = } *mil*
" " aft of " = }

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{8150}{18} (.75 - .1056) = +292 \text{ m/m}$
If limited on account of midship superstructure. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **13.134**
Summer freeboard = **3.497**
Moulded draught (d) = **9.637**
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =
Winter freeboard = $\frac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta =$
Tons per inch immersion at summer load water line
T =
Deduction = $\frac{\Delta}{40 T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient - *mil*

Depth Correction	...	...	...	...	813	-
Deduction for superstructures	...	...	...	...	-	113
Sheer correction	...	...	...	...	292	-
Round of Beam correction	...	...	...	...	10	-
Correction for Thickness of Deck amidships	...	...	...	...	-	-
Other corrections, scantlings, etc.	...	...	...	...	-	-

1115 **113** **+1002**
Summer Freeboard = **3497**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	...	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	"	Fresh Water	"
Tropical Line	"	"	Tropical	"
Winter Line below	"	"	Winter	"
Winter North Atlantic Line	"	"	Winter North Atlantic	"

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made,
the Surveyor should endorse the form on this side with his signature and the date.

Trade of ship..... *International.*
Names of ^{*512402*} ~~sister~~ ships..... *Nakskov Yard Nos. 166/7. Burmeister & Wain Yard Nos. 791/2.*
Builder's name and yard number..... *Nakskov Yard Nos. 172/3.*
Owners..... *U. S. S. R. Sudoimport.*
Fee £.....:.....:.....

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950", paragraph 11.)



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Foundation