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(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "HAVSTRAND"	Official Number ✓	Nationality and Port of Registry NORWEGIAN BERGEN	Gross Tonnage 94	Date of Build 1913.	Port of Survey Bergen
Moulded Dimensions: Length 30'-0" Breadth 18'-9" Depth 10'-0 1/2"					Date of Survey 25th October 1949
Moulded displacement at moulded draught = 85 per cent. of moulded depth ✓ tons					Surveyor's Signature S. A. Eide
Coefficient of fineness for use with Tables 0.886 - 68 ✓					Particulars of Classification Contemplated B.C. for carriage light cargoes on Norwegian coast and also for fishing.

DEPTH FOR FREEBOARD (D). 10.04		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	10.003	(a) Where D is greater than Table depth (D-Table depth) R =	(10.25-9.0) .692 = +.87"	Moulded Breadth (B)	18'-9"
Stringer plate21	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	1.25	Standard Round of Beam = $\frac{B \times 12}{50}$	= 4.50
PLANK	.208			Ship's Round of Beam	= 4 3/4"
Sheathing on exposed deck	.208			Difference	.25
$T \left(\frac{L-S}{L} \right) =$	10.25			Restricted to	
Depth for Freeboard (D) =	10.211	If restricted by superstructures	✓	Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	= .25 / 4 = -.06

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure ✓
„ overhang						„ „ R.Q.D. ✓
R.Q.D. enclosed						Deduction for complete superstructure ✓
„ overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed						„ „ $\frac{S_1}{L} =$
„ overhang aft						„ „ $\frac{E}{L} =$
„ overhang forward						Percentage from Table, Line A.
F'cle enclosed						(corrected for absence of forecastle (if required))
„ overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
„ forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft						Deduction = ✓
„ „ forward						
Total	✓	✓			✓	

LIGHT DRAUGHT FORWARD **3'-2"**
 „ „ „ **8'-11"** Sheer measured afloat **SHEER CORRECTION.**

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	19.00	1	19.00	21"	21	1	21.00
1/4 L from A.P.	8.455	4	33.82	5"	5	4	20.00
2/4 L „	2.09	2	4.18	1"	1	2	2.00
Amidships	✓	4	✓	0"		4	
3/4 L from F.P.	4.18	2	8.36	3"	3	2	6.00
1/4 L „	16.91	4	67.64	7"	7	4	28.00
F.P.	38.00	1	38.00	22"	22	1	22.00
Total			171.00				99.00

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{72}{18} \times .75 = + 3"$
 If limited on account of midship superstructure.

Mean actual sheer aft =
 Mean standard sheer aft =

Mean actual sheer forward =
 Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

„ „ aft of „ =

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.**Addition for Winter and Winter North Atlantic Freeboard.**

Depth to Freeboard Deck = **10.25** Ft.
 Summer freeboard = **1.06**
 Moulded draught (d) = **9.19**

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 **N.L.**

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

+	-
.87	
3.00	
.06	
3.87	.06

Summer Freeboard = **12.81**

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

Tropical Fresh Water Line above Centre of Disc
 Fresh Water Line „ „
 Tropical Line „ „
 Winter Line below „ „
 Winter North Atlantic Line „ „

Tropical Fresh Water Freeboard
 Fresh Water „ „
 Tropical „ „
 Winter „ „
 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 Norwegian coasting & fishing

Names of sister ships ✓

Builder's name and yard number Unknown

Owners Karsten Daae. Bergen

Fee £ ✓

fw.



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Foundation