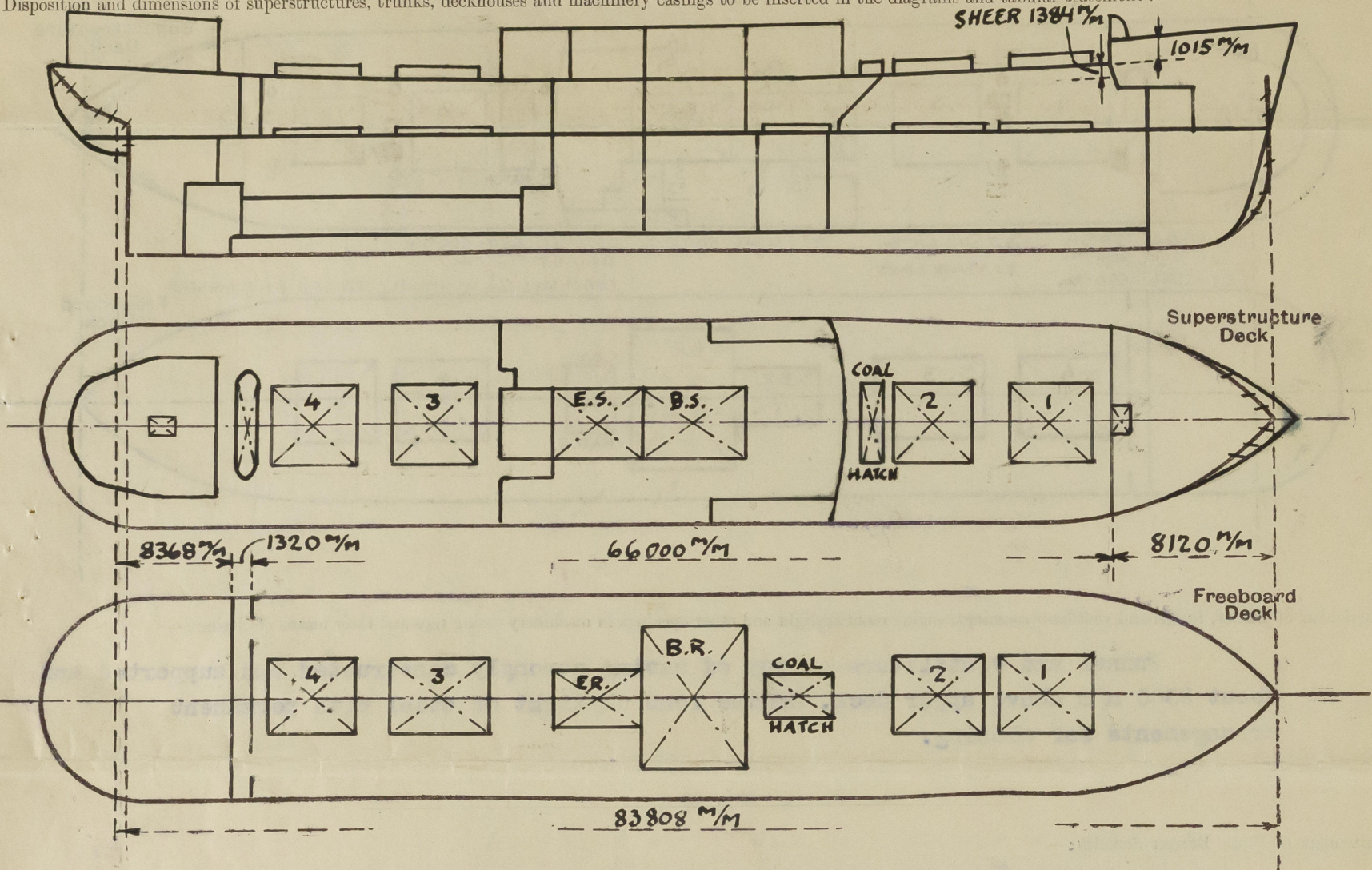


Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(CONDITIONS OF ASSIGNMENT.)

Ship's Name	S.S. "BERKEL"	Port of Survey	Stockholm.
Official Number		Surveyor's Signature	<i>Hans. Otto Albertson</i>
Nationality and Port of Registry	Swedish, Stockholm.	Date of Survey	Whilst building.

Disposition and dimensions of superstructures, trunks, deckhouses and machinery casings to be inserted in the diagrams and tabular statement:—



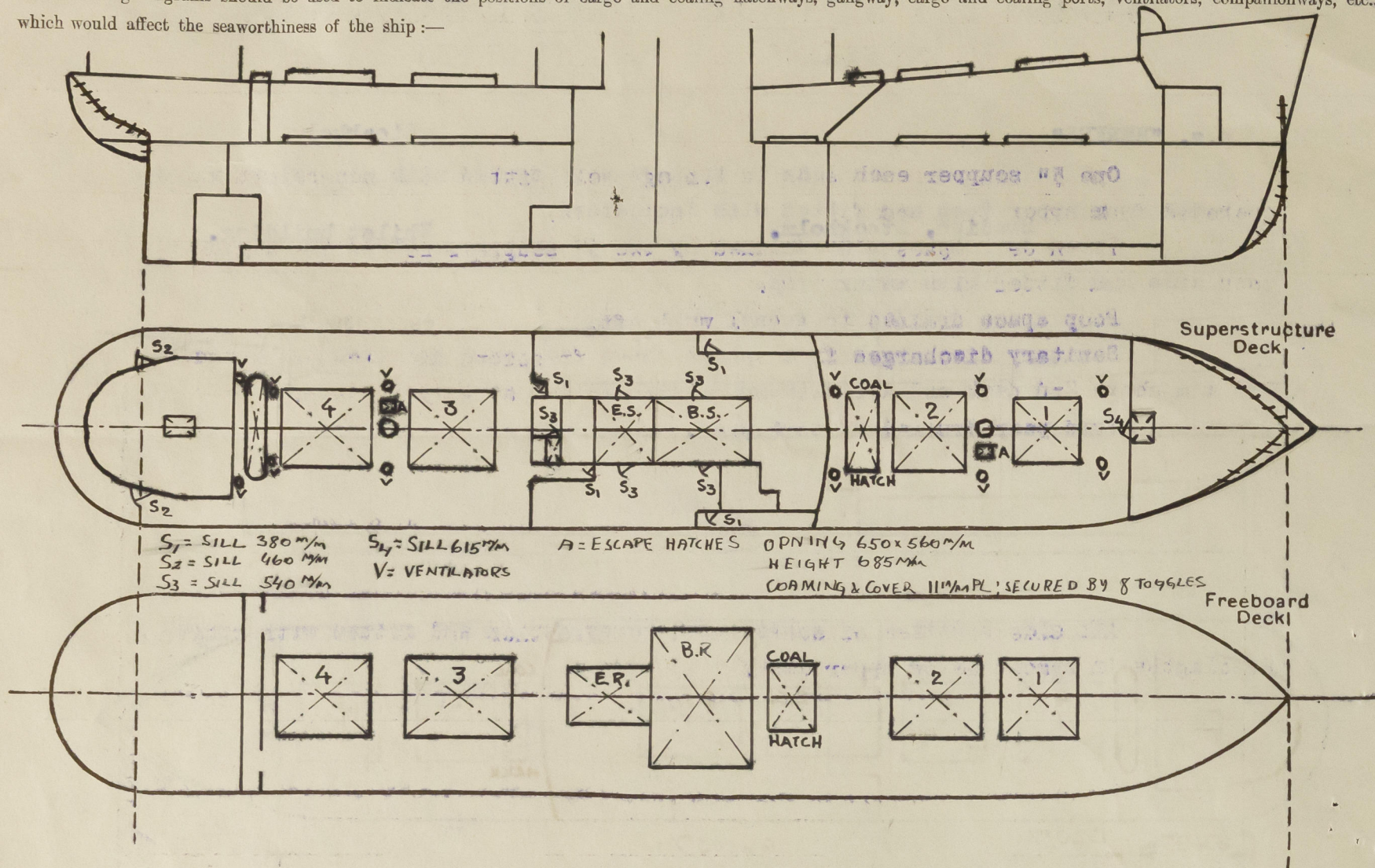
Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating m/m	Stiffeners m/m	Spacing m/m	End Attachments of Stiffeners	Size of Openings m/m	Height of Sills m/m	Height of Casings m/m
Poop Bulkhead ...	-	7.0	100x8,5	745	None top and bottom	No openings	-	-
Raised Quarter Deck Bulkhead ...	-	7.0	100x8,5	745	None	930 x full height	None	2440
Bridge, After Bulkhead ...	-	7.0	100x8,5	600	None	645 x 1415	615	1015
Bridge, Forward Bulkhead ...	-	7.0	100x8,5	600	None	645 x 1415	615	1015
Forecastle Bulkhead ...	-	7.0	100x8,5	600	None	645 x 1415	615	1015
Trunk, Aft ...	-	7.0	100x8,5	600	None	645 x 1415	615	1015
Trunk, Forward ...	-	7.0	100x8,5	600	None	645 x 1415	615	1015
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...	-	7.0	65 x 65 x 6,5	660	cont. top to beams bottom	670 x 1420	540	2300
Exposed Machinery Casings on Super- structure Decks ...	-	7.0	75 x 65 x 7	660	to beams top and bottom	No openings	-	2440
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ...	-	7.0	65 x 65 x 6,5	660	to beams top and bottom	No openings	-	2440
Deckhouses on Flush Deck Ships ...	-	7.0	65 x 65 x 6,5	660	to beams top and bottom	No openings	-	2440

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	No openings.
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead ...	70 m/m wood shifting boards in welded channels, full height.
Bridge, Forward Bulkhead ...	
Forecastle Bulkhead ...	Hinged steel doors openable from both sides (companionway).
Exposed Machinery Casings on Free- board or Raised Quarter Decks ..	
Exposed Machinery Casings on Super- structure Decks ...	Hinged steel doors openable from both sides.
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ...	No openings.
Deckhouses on Flush Deck Ships ...	

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

The following diagrams should be used to indicate the positions of cargo and coaling hatchways, gangway, cargo and coaling ports, ventilators, companionways, etc., which would affect the seaworthiness of the ship:—



Particulars of fiddley, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing:—

Funnel and ventilators on top of casing strongly constructed and supported and about 2300 mm above upper deck. Engine room skylight of steel with permanent arrangements for closing.

Particulars of Flush Bunker Scuttles:—

None fitted.

Particulars of Companionways:—

Companionway to sunk forecastle welded to deck with 615 mm high sill and hinged steel door. Entrances to crew space aft from steel deckhouse. Openings closed by strong wood doors operated from both sides and with 460 mm high sill.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

All ventilators of steel with coamings 910 mm high or above welded to deck and efficiently supported. All ventilators except derrick posts fitted with means of closing same.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

All air pipes of steel of goose neck type and provided with means for closing.

All air pipes approximately 915 mm high

Particulars of Gangway Cargo and Coaling Ports :—

None fitted.

Particulars of Scuppers and Sanitary Discharge Pipes :—

One 5" scupper each side in tonnage well fitted with non-return valves operated from upper deck and fitted with indicators. ✓

Tween deck space also drained by two 3" scuppers led to the engine bilges each side and fitted with water trap. ✓

Poop space drained to tunnel well aft. ✓

Sanitary discharges from spaces above freeboard deck led overboard about 150 m/m above 2nd deck and all with non-return valves at ship's sides. ✓

Fore peak drained by hand pump. ✓

Particulars of Side Scuttles :—

All side scuttles of substantial construction and fitted with hinged deadlights in spaces below upper deck.

Vertical distance of Sill of lowest Side Scuttle above top of keel About 7500 m/m

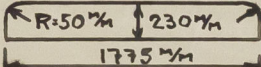
Particulars of Guard Rails :—

Guard rails fitted in way of crew space aft, 1000 m/m high with three rods and stanchions spaced about 2000 m/m apart. Bulwark elsewhere 1100 m/m high with stanchion 90 x 75 x 9,5 L. Bulwark plate welded to sheer strake and stanchions welded to deck and plate.

Particulars of Gangways, Lifelines, etc. :—

None.

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	12 - 46 22.44 M.	1100 m/m		2	0.81 M ²	0.69 M ²
Forward Well	63½ - 115 33.99 M.	1100 m/m	Ditto	4	1.62 M ²	1.04 M ²

State position of each freeing port { After Well :— 29 . 44 } fore part. Edge above deck 190 mm.
(F. and A. position and height above deck edge) { Forward Well :— 67; 81; 96; 108 }

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :—

Additional area where sheer is less than standard.



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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.										
← Upper deck →					← Second deck →					
Description of Hatchway	1	2	3	4	coal bunker hatch	1	2	3	4	coal bunker hatch
Dimensions of Hatchway	6600 x 4270	7260 x 4580	6600 x 4580	6600 x 4270	1320 x 4580	7260 x 4580	7920 x 4580	7260 x 4580	6600 x 4580	3200 x 3960
COAMINGS	Height above Deck	815	780	815	815	800	230	230	230	230
	Thickness	11	11	11	11	11	11	11	11	11
	Sides	180 x 2	90 x 10 L.	180 x 2	90 x 10 L.	180 x 2	90 x 10 L.	180 x 2	90 x 10 L.	180 x 2
	Stiffeners	2	2	2	2	2	2	2	2	2
HATCH BEAMS	Number	4	4	4	4	4	5	4	4	2
	Spacing	1320	1452	1320	1320	1452	1320	1452	1320	1320
	Scantling and Sketch	A. 310 x 8	270 x 7.5	310 x 8	270 x 7.5	360 x 8	200 x 13	200 x 13	200 x 13	200 x 11
	Bearing Surface	200 x 10	330 x 75	200 x 10	330 x 75	200 x 15	310 x 75	200 x 13	386 x 75	200 x 11
FORE AND AFTERS	Number									
	Spacing									
	Unsupported Lengths									
	Scantling* and Sketch									
HATCH COVERS	Material	wood	wood	wood	wood	wood	wood	wood	wood	wood
	Thickness	61	61	61	61	61	61	61	61	61
	How fitted	F-A	F-A	F-A	F-A	F-A	F-A	F-A	F-A	F-A
	Bearing Surface	65	65	65	65	65	65	65	65	65
Spacing of Cleats		575			500		580			560
Number of Tarpaulins		2			2		1			1
<p>*Are wood fore and afters steel shod at all bearing surfaces? Yes</p> <p>Are battens and wedges efficient and in good condition? Yes</p> <p>Are tarpaulins in good condition and in accordance with rule requirements? Yes</p> <p>Are lashings provided in accordance with rule requirements? Yes</p>										

Particulars of any special features:—

Tonnage opening aft 1250 x 5520 with 230 x 90 x 12 coaming and 75 m/m wood covers and tarpaulins with temporary closing appliances.

Width of upper deck at the centre of tonnage opening = 2 x 5336 m/m = 10672 m/m,

$$\frac{10672 - 5520}{10672} = .483$$

Endorsement at first survey and at surveys for renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown on this form (or as now modified) and are in good condition.



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