

12.8.15

S.S. "Spiral" built by Nyland Verks.
Christiania in 1906 & classed IAI Norske Veritas

Dims. 245 x 36.5 x 19.0

No. 54.5 & 13352

$\frac{L}{D} = 12.8$ to upper dk

9.4 " Bridge dk

d = 16.08

$\frac{222}{14} = 15.73$

Rule

23

Frames sp

- $\frac{3}{5}L$

- beyond $\frac{3}{5}L$

" in erec.

" peaks.

$7 \times 3 \times .44$ B.a.

$7 \times 3 \times .44$ B.a.

$4 \times 3 \times .30$ with res $3 \times 3 \times .30$.
to upper dk in aft peak, to
upper dk & f'cle in fore peak

In ship

24"

$7 \times 3 \times .55$ B.a. } to upper dk

$7 \times 3 \times .50$ "

$4\frac{1}{2} \times 3 \times .40$ - .35 o.a. scarphed

$4\frac{1}{2} \times 3 \times .40$ angles with res.

$3 \times 3 \times .35$ to upper dk & upper
side stringer althg.

Side stringers

Two

$5 \times 3\frac{1}{2} \times .40$

Two

$6 \times 4\frac{1}{2} \times .50 - .45$

Keel

$42 \times .72 - .54$

Bottom

$.48 - .40$

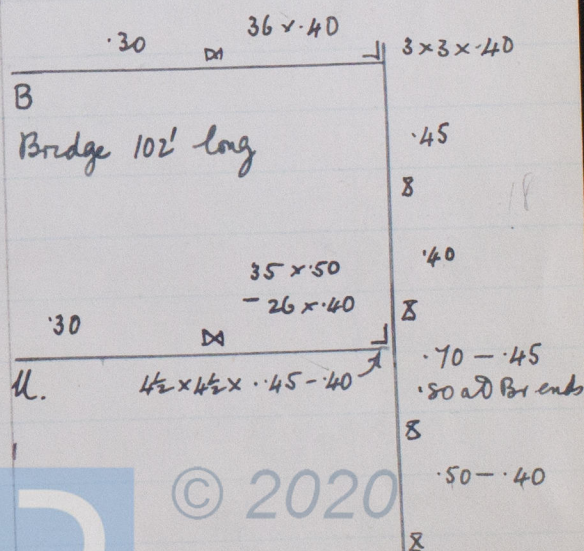
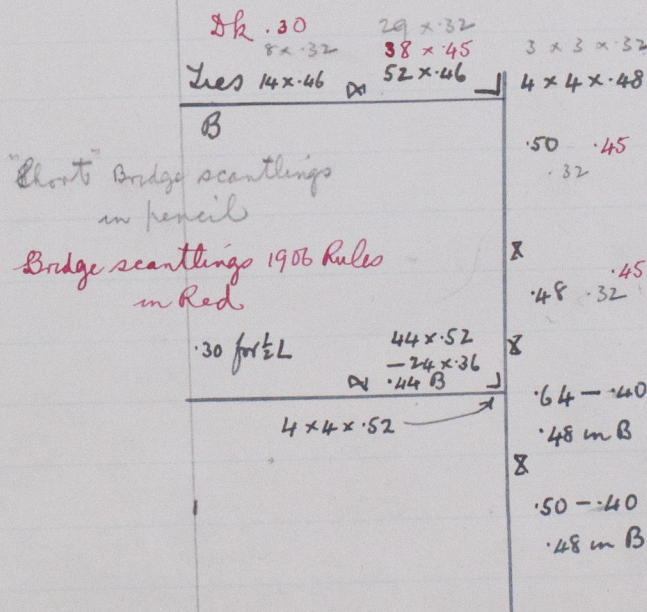
Sides

$.48 - .40$

$54 \times .70 - .55$

$.50 - .40$

$.50 - .40$



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W755-0168 (1/2)

$$\begin{array}{r}
 13-6 \\
 \underline{9} \\
 4-6 \\
 \underline{2} \\
 2-3 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 2-6 \\
 2-6 \\
 2-0 \\
 \underline{2-0} \\
 9-0
 \end{array}$$



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Rule

Centre Girders

34 x .42 - .36

Side "

one .30

margin

25 x .36 , .46 B

Floors.

.32 .42 B

In Ship

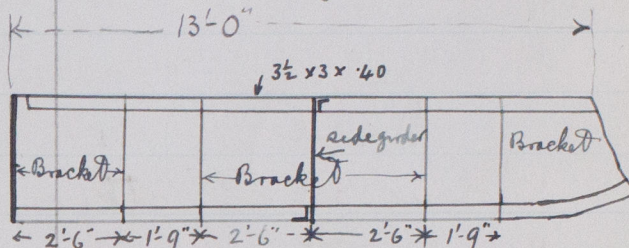
35 x .45 - .40 , .55 B

one .35 , .45 B

28 x .35 , .45 B

.35 , .45 B.

solid floors on every frame in machinery space.



Bracketed floors as above on every frame except in Machf.

Tank Top

34 x .40 - .34

" rev.

.32 - .30 , .36 B .48 B

Tank side plating

14"

Keel bars

4 x 4 x .48 - .46 double

Top "

3 x 3 x .40 double

margin

3 1/2 x 3 1/2 x .36

frames over on solid floors

3 x 3 x .32

.40 - .35 , .50 B

.35 , .40 B .50 B

22 1/2"

5 x 4 x .45 - .40 double

4 x 4 x .40 - .35 double

3 1/2 x 3 1/2 x .40

fr 3 x 3 x .40

rev. 3 x 3 x .35

margin connection
Gussets

double for 1/4 L from stem
every 5th

deeper
margin

3 x 3 x .35 single for
none

Beams. Br. thro

5 1/2 x 3 x .34 B.A.

" 1/2

5 1/2 x 3 x .34 O.A.

5 1/2 x 3 x .40 angles

5 x 3 x .35 angles

upper. walls thro

6 1/2 x 3 x .38 B.A.

" 1/2

6 x 3 x .36 B.A.

" erec. thro

5 1/2 x 3 x .34 B.A.

" 1/2

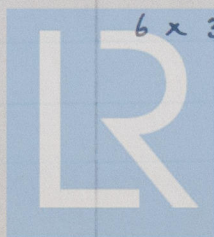
5 1/2 x 3 x .34 O.A.

7 x 3 x .40 B.A.

6 x 3 x .40 "

7 x 3 x .40 B.A.

6 x 3 x .40 B.A.



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W755-0168 (2/2)

$$\begin{array}{r}
 137 \\
 \underline{7} \\
 959 \\
 \underline{3} \\
 4 \overline{) 2477} \\
 \underline{719}
 \end{array}$$

$$\begin{array}{r}
 13352 \\
 719 \\
 \underline{210}
 \end{array}$$

Equipment

Rule

1 Bower	30½ cwt	stkless	} 87
1 "	30½ "	"	
1 "	26 "	"	
1 Stream	7¾ "	ex stock	
1 kedge	4½ "	"	
240 fms	1 ¹⁰ / ₁₆	stud chain	
75 "	3¾	steel wire (stream)	
90 "	10"	hemp towline	
2c 90 "	6"	hawser or 2¼ steel wire	
2c 90 "	5"	" " 1¾ "	

In Ship

1 Bower	33 cwt	stkless	} 94
1 "	31 "	"	
1 "	30 "	"	
1 Stream	8½ "	ex stock	
1 kedge	4 "	"	
240 fms	1 ¹⁰ / ₁₆	stud chain	
90 "	11"	hemp towline	
90 fms	11"	hemp towline	
90 "	9"	warp or 3" wire	
90 "	7"	" 2½ "	

(Difference 75 fms 3¾ steel wire (stream)
2c 90 fms 5" hawser or 1¾ steel wire

Bulkhead stiffening



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