

S. S. Spartan Nwe. Report No. 15060

Sketch showing areas of present angle iron
and Keelson plates in ship also
Proposed Compensation for Lengthening

In Ship

Scale $\frac{1}{2}$ = 1 foot.

(1) Centre Keelson Plate	- - - - -	$14 \times \frac{12}{16}$	= 12.45
(4) do do Angles	- - - - -	$5 \times 4 \times \frac{9}{16}$	20.22
(1) Rider Plate	- - - - -	$10 \times \frac{12}{16}$.622
(2) Side Keelson Plate	- - - - -	$\frac{8}{16}$	
(4) do do Angles	- - - - -	$5 \times 4 \times \frac{9}{16}$	20.22
(2) Lower Bilge Keelson Plate (Bull)	- - - - -	$4\frac{1}{2} \times \frac{4}{16}$	
(4) do do angles	- - - - -	$5 \times 4 \times \frac{9}{16}$	20.22
(2) Upper Bilge Keelson Plate	- - - - -	$\frac{8}{16}$	
(4) do do do angles	- - - - -	$5 \times 4 \times \frac{9}{16}$	20.22
			<u>94.652</u> sq. inches



Req^d by Rule

$18 \times \frac{12}{16}$	=	14.61
$5\frac{1}{2} \times 4 \times \frac{9}{16}$		21.34
$11 \times \frac{12}{16}$.438
$\frac{8}{16}$		

$5\frac{1}{2} \times 4 \times \frac{9}{16}$		21.34
$4\frac{1}{2} \times \frac{4}{16}$ (Bull)		
$5\frac{1}{2} \times 4 \times \frac{9}{16}$		21.34
$\frac{8}{16}$		
$5\frac{1}{2} \times 4 \times \frac{9}{16}$		21.34

100.408 sq. ins.

100.408

94.652

sq. in. 6.056 Total deficiency

Proposed Compensation for this

Centre Keelson Plate doubled for $\frac{1}{2}$ vessel's length with $\frac{8}{16}$ Plate.

$9 \times \frac{8}{16}$	=	4.5
$9 \times \frac{8}{16}$		4.5
<u>8.10</u> square inches		

18m
10/9/80

Sep. 2nd
1880



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