

# MODULUS OF SECTION

NAME:—

Particulars of Vessel

Height of Assumed Axis above Keel

*millpool*

*355 x 51 x 28.42 with Trunk Deck above*

*15 ft*

BELOW ASSUMED AXIS.								ABOVE ASSUMED AXIS.							
ITEM.	SCANTLING.	AREA.	h.	Ah.	Ah <sup>2</sup> .	d.	Ad <sup>2</sup> .	ITEM.	SCANTLING.	AREA.	h.	Ah.	Ah <sup>2</sup> .	d.	Ad <sup>2</sup> .
FLAT KEEL ...	22.5 x 1.0	22.5	15.0	340	5100			<i>Trunk</i> TOP DECK STRINGER ...	72 x 50	36.0	21.2	760	16200		
" " ...								" " "	5 x 5 x 60	5.6	21.0	117	2460		
CENTRE GIRDER PLATE ...	41 x 25	10.3	13.3	136	1810			<i>side</i> ANGLE ...	66 x 60	39.6	18.5	732	13600	5.0	900
" " BOTTOM ANGLES	4 x 4 x 60	4.4	14.9	66	980			" " PLATING ...	48 x 55	26.4	14.8	391	5800	2.2	
" " TOP ANGLES	4 x 4 x 45	3.4	11.7	40	470			<i>under</i> 2ND DECK STRINGER ...	132 x 55	72.6	13.8	1000	13800		
CENTRE STRAKE TANK TOP ...	28 x 50	14.0	11.6	163	1900			" " ANGLE ...	4 1/2 x 4 1/2 x 55	4.6	13.5	62	840		
MARGIN PLATE ...	46 x 45	20.3	12.5	255	3240			" " PLATING ...							
" " ANGLES ...	4 x 4 x 45	3.4	14.3	49	700			<i>Heel</i> 3RD DECK STRINGER ...	63 x 55	34.6	1.4	50	70		
BOTTOM PLATING ...	205 x 60	123.0	14.7	1800	26400	1		" " ANGLE ...	11 x 3 1/2 x 70	10.8	1.2	13	116		
BILGE PLATING ...	84 x 60	50.4	12.5	630	7900	45		" " PLATING ...							
SIDE PLATING ...	130 x 60	78.0	50	390	1950	100	7800	4TH DECK STRINGER ...							
TANK TOP PLATING ...	200 x 375	75.0	11.6	870	10100			" " ANGLE ...							
<i>Barboard</i> No. 1 SIDE STRINGER PLATE	45 x 70	31.5	14.9	470	7000			" " PLATING ...							
" " " ANGLES								SHEERSTRAKE ...							
No. 2 " " PLATE	4 x 40	1.6	5.9	10	60			" " ...							
" " " ANGLES	6 x 4 x 60	5.6	6.0	33	200			STRAKE BELOW SHEERSTRAKE							
No. 3 " " PLATE								SHELL PLATING ...	186 x 60	112.0	7.1	792	5620	142	22600
" " " ANGLES								SIDE STRINGER PLATE ...	4 x 40	1.6	7.0	10	70		
SIDE KEELSON PLATE ...								" " ANGLES ...	6 x 4 x 60	5.6	6.9	38	270		
" " TOP ANGLES.															
" " BOTTOM "															
TOTALS BELOW ASSUMED AXIS.		443.4		525.2	67810		7800	TOTALS ABOVE ASSUMED AXIS.		349.4		396.6	58746		23500
								" " BELOW ASSUMED AXIS.		443.4		525.2	67810		7800
								SUM OR DIFFERENCE ...		792.8	1.62	12.87	2600		31300
								Ad <sup>2</sup> /12					129156		2600

*Draft mld*

*23-2 3/4*

*L.L.C*

*9.19 x 23.23 x 51 = 10,900*

SUMMARY.	
MOMENT OF INERTIA ABOUT ASSUMED AXIS ...	(1.) <i>129156</i>
NEUTRAL AXIS ABOVE ASSUMED AXIS (x) ...	(2.) <i>-1.62</i>
TOTAL AREA x x <sup>2</sup> ...	(3.) <i>2080</i>
CORRECTED INERTIA (ONE SIDE ONLY) = (1.) - (3.) ...	(4.) <i>127070</i>
CORRECTED INERTIA (BOTH SIDES) ...	<i>254140</i>
VALUE OF "Y" AT HEEL OF GUNWALE BAR ...	<i>22.80</i>
MODULUS OF SECTION AT GUNWALE ...	<i>11,200</i>
VALUE OF "Y" AT KEEL ...	<i>13.38</i>
MODULUS OF SECTION AT KEEL ...	

Initials

*W.P.*

Date

*1.7.35*

N.B.—The assumed axis is to be taken below lowest deck. The Top Deck is the uppermost strength deck, and other decks are to be numbered from that deck.

*WSSG-2133*



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