

# MODULUS OF SECTION

NAME:— EUROPE.

Particulars of Vessel

Height of Assumed Axis above Keel

60 x .98 Double in String  
72 x .98 " " 12!

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 ...								TOP DECK STRINGER <i>Dublin</i>	60 x .98	58.80	18.5	1087.9	20,125		✓
" " ...								" " "	72 x .98	70.56	19.2	1325.0	26,015		✓
CENTRE GIRDER PLATE ...								" " ANGLE ...							
" " BOTTOM ANGLES								" " PLATING...							
" " TOP ANGLES								2ND DECK STRINGER							
CENTRE STRAKE TANK TOP...								" " ANGLE ...							
MARGIN PLATE ...								" " PLATING							
" " ANGLES ...								3RD DECK STRINGER							
BOTTOM PLATING ...								" " ANGLE ...							
BILGE PLATING ...								" " PLATING							
SIDE PLATING ...								4TH DECK STRINGER							
TANK TOP PLATING...								" " ANGLE ...							
No. 1 SIDE STRINGER PLATE								" " PLATING							
" " " ANGLES								SHEERSTRAKE ...							
No. 2 " " PLATE								" " ...							
" " " ANGLES								STRAKE BELOW SHEERSTRAKE							
No. 3 " " PLATE								SHELL PLATING ...							
" " " ANGLES								SIDE STRINGER PLATE ...							
SIDE KEELSON PLATE ...								" " " ANGLES ...							
" " TOP ANGLES															
" " BOTTOM "															
								<i>See before. (1)</i>		439.47		5770.2	87,555		65106
								TOTALS ABOVE ASSUMED AXIS.		568.83		8213.1	133,695		65106
								" " BELOW ASSUMED AXIS.		889.50		10519.8	137,547		26076
								SUM OR DIFFERENCE		1428.33	1582.	23667	271,242		91182
								Ad <sup>2</sup> /12					7600		7600
TOTALS BELOW ASSUMED AXIS.													278842		

SUMMARY.	
MOMENT OF INERTIA ABOUT ASSUMED AXIS ...	(1.) 278842
NEUTRAL AXIS ABOVE BELOW ASSUMED AXIS (x) ...	(2.) 1.582
TOTAL AREA × x <sup>2</sup> ...	(3.) 3650
CORRECTED INERTIA (ONE SIDE ONLY) = (1.) - (3.) ...	(4.) 275192
CORRECTED INERTIA (BOTH SIDES) ...	550384
VALUE OF "Y" AT HEEL OF GUNWALE BAR ...	19.832.
MODULUS OF SECTION AT GUNWALE ...	27755
VALUE OF "Y" AT KEEL ...	4.418
MODULUS OF SECTION AT KEEL ...	

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.

Initials \_\_\_\_\_

Date \_\_\_\_\_



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