

STEEL VESSELS.

TABLE S 7.

Table of Scantlings for DOUBLE BOTTOMS CONSTRUCTED ON THE CELLULAR SYSTEM.

PLATING NUMBER FOR REGULATING SCANTLINGS. (See Section 2.)	Centre Girder. — Depth above Top of Keel and Thickness.	Thick- ness of Side Girders	Number of Side Girders (exclusive of Margin Plates) on each side, with Floors at alternate Frames.	Margin Plate. — Depth (exclusive of Flange) and Thickness.	Thickness of Inner Bottom Plating.			Thick- ness of Brack't or Floor Plates.	DIMENSIONS OF ANGLE BARS.		
					In Engine and Boiler Space, and Middle Line Strake, for Half Length Amidships (b)	Middle Line Strake at Ends.	Remain- der of Plating before and abaft the Engine and Boiler Space.		On Centre Girder. (a)	On Margin Plates.	On Side Girders, Intermediate, and Vertical Angle Bars.
	inches.	inches.		inches.	inches.	inches.	inches.	inches.	inches.	inches.	inches.
under 11,000	$32 \times \frac{8}{20}$	$\frac{6}{20}$	2	$18 \times \frac{6}{20}$	$\frac{7}{20}$	$\frac{6}{20}$	$\frac{6}{20}$	$\frac{6}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{7}{20}$	$3 \times 3 \times \frac{7}{20}$	$3 \times 2\frac{1}{2} \times \frac{6}{20}$
11,000 and under 13,000	$33 \times \frac{8}{20}$	$\frac{6}{20}$	2	$19 \times \frac{7}{20}$	$\frac{8}{20}$	$\frac{6}{20}$	$\frac{6}{20}$	$\frac{6}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{7}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{7}{20}$	$3 \times 2\frac{1}{2} \times \frac{7}{20}$
13,000 and under 15,000	$34 \times \frac{8}{20}$	$\frac{6}{20}$	3	$20 \times \frac{7}{20}$	$\frac{8}{20}$	$\frac{7}{20}$	$\frac{7}{20}$	$\frac{6}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{7}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{7}{20}$	$3 \times 3 \times \frac{7}{20}$
15,000 and under 18,000	$35 \times \frac{9}{20}$	$\frac{7}{20}$	3	$21 \times \frac{7}{20}$	$\frac{8}{20}$	$\frac{7}{20}$	$\frac{7}{20}$	$\frac{7}{20}$	$4 \times 4 \times \frac{8}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{8}{20}$	$3 \times 3 \times \frac{7}{20}$
18,000 and under 21,000	$36 \times \frac{9}{20}$	$\frac{7}{20}$	3	$22 \times \frac{8}{20}$	$\frac{8}{20}$	$\frac{7}{20}$	$\frac{7}{20}$	$\frac{7}{20}$	$4 \times 4 \times \frac{9}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{8}{20}$	$3 \times 3 \times \frac{7}{20}$
21,000 and under 24,000	$38 \times \frac{10}{20}$	$\frac{7}{20}$	3	$24 \times \frac{8}{20}$	$\frac{9}{20}$	$\frac{8}{20}$	$\frac{7}{20}$	$\frac{7}{20}$	$4 \times 4 \times \frac{9}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{8}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{7}{20}$
24,000 and under 28,000	$40 \times \frac{10}{20}$	$\frac{7}{20}$	3	$26 \times \frac{8}{20}$	$\frac{9}{20}$	$\frac{8}{20}$	$\frac{7}{20}$	$\frac{7}{20}$	$4 \times 4 \times \frac{9}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{8}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{7}{20}$
28,000 and under 33,000	$42 \times \frac{10}{20}$	$\frac{8}{20}$	3	$28 \times \frac{8}{20}$	$\frac{10}{20}$	$\frac{8}{20}$	$\frac{8}{20}$ to $\frac{7}{20}$	$\frac{8}{20}$	$4 \times 4 \times \frac{9}{20}$	$4 \times 4 \times \frac{9}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{8}{20}$
33,000 and under 38,000	$44 \times \frac{10}{20}$	$\frac{8}{20}$	4	$30 \times \frac{9}{20}$	$\frac{10}{20}$	$\frac{8}{20}$	$\frac{8}{20}$ to $\frac{7}{20}$	$\frac{8}{20}$	$4 \times 4 \times \frac{9}{20}$	$4 \times 4 \times \frac{9}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{8}{20}$
38,000 and under 44,000	$46 \times \frac{11}{20}$	$\frac{8}{20}$	4	$32 \times \frac{10}{20}$	$\frac{10}{20}$	$\frac{8}{20}$	$\frac{8}{20}$	$\frac{9 \text{ to } 8}{20}$	$4 \times 4 \times \frac{10}{20}$	$4 \times 4 \times \frac{10}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{9}{20}$
44,000 and under 51,000	$48 \times \frac{11}{20}$	$\frac{9 \text{ to } 8}{20}$	4	$34 \times \frac{10}{20}$	$\frac{11}{20}$	$\frac{9}{20}$	$\frac{9}{20}$ to $\frac{8}{20}$	$\frac{9 \text{ to } 8}{20}$	$4 \times 4 \times \frac{10}{20}$	$4 \times 4 \times \frac{10}{20}$	$3\frac{1}{2} \times 3\frac{1}{2} \times \frac{10}{20}$

(a) Where Flat Plate Keels are adopted, the Angles connecting the same to the centre Plate are to be of the size required for Middle Line Keelsons in Table S 3.

(b) The breadth of the Middle Line Strake of the Inner Bottom Plating to be not less than that given for Garboard Strakes in Table S 2.

Where Flanged Plates are adopted for Floors, Brackets, Intercostal Plates, &c., as a substitute for fitting angles on the edges, such Plates are to be $\frac{1}{10}$ of an inch thicker than that given in the Table.

