

s.s. "DOVER HILL" ex "CIAN MACVICAR"

Dimensions : 400 x 53 x 35.4 ft.

This vessel, which is of the shelter deck type, was built in 1918.

Under a loading of 200 tons of iron ore, the hatch side girder of No.3 second deck hatch collapsed, and the deck plating at the forward port corner tore.

200 tons of cargo on this hatch represents a density of 27 cu. ft. to the ton, but, as the deck itself carried no load, the loading on the girder averaged about 40 cu. ft./ton, giving a stress of $11\frac{1}{2}$ tons per square inch.

It should be noted that at the time this vessel was built a head of 5 ft. was used in computing the scantlings of the girders in this type of vessel. Under standard conditions of loading this gave a stress of about 6 tons per square inch.

The Rules have since been modified to require that in computing the scantlings of deck girders the full tween deck height must be employed, instead of 5 ft. as stated above, and the stress in a side girder under the conditions which caused failure in the "DOVER HILL" would be about $8\frac{1}{2}$ tons per square inch.

W.J.

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