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Lloyd's Register of Shipping,

71, Fenchurch Street, E.C.3.

Enclosure.

5th October, 1938.

Dear Sir,

E. I have to acquaint you that the Copenhagen Surveyors submitted to this Office in June last a design of welded bedplate proposed by Messrs. Burmeister & Wain's Maskin-og Skibsbyggeri.

In this design use is made of broad flanged "Differdinger" sections, and the Firm asked whether these sections could be accepted if made from Thomas (Basic Bessemer) Steel. This latter proposal was not accepted, but the Firm now state that it is impossible to obtain these particular sections on the European market in Open Hearth Steel, and that the sections in question are made only in Thomas Steel. They also point out that the stresses in these parts are low, viz: 1.9 tons per sq. inch (which fact has been confirmed by calculations made in this Office), and they offer impact and tensile tests on the material, together with a chemical analysis from both ends of each beam.

Having regard to the Society's practice in the past, and the fact that bedplates are considered acceptable if made from cast iron, without physical tests

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Welded Bedplate proposed by
Messrs. Burmeister & Wain.

and with stresses of about 1.5 tons per sq. inch, I shall be glad if you will state whether you consider the tests now offered by the Firm would afford a basis on which these sections might be accepted, if made from Thomas Steel.

I shall also be glad to learn whether, in your opinion, the tests suggested by the Firm would satisfactorily indicate a brittle, overblown or unreliable state of the material, and perhaps you will suggest any further tests which you consider would form a sound basis for an investigation of the material in question.

With reference to the Firm's statement that the sections in question, as per enclosed sketch, can only be obtained in Thomas Steel, I shall be glad if you will state whether, to your knowledge, such is the case, or whether any Firm known to you, rolling such "Differdinger" sections, has Open Hearth plant or would consider special rolling in Open Hearth material.

I am, Dear Sir,

Yours faithfully,

L. Ripley, Esq.,
MIDDLESBROUGH.



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Secretary.

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