

ENGLISH SUMMARY

FATIGUE STRENGTH OF LONGITUDINAL JOINTS OF CORRUGATED CORE STEEL SANDWICH PANELS

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The article discusses the fatigue strength of longitudinal joints of ships all metal sandwich panel decks. Comparison with different joint types is made by using finite element analysis. For two different joint types SN-curves are determined experimentally. These SN-curves are used for calculating the damage ratio for a cruise ship superstructure. Calculations revealed that beside of the few highest decks the damage ratio will remain below one.