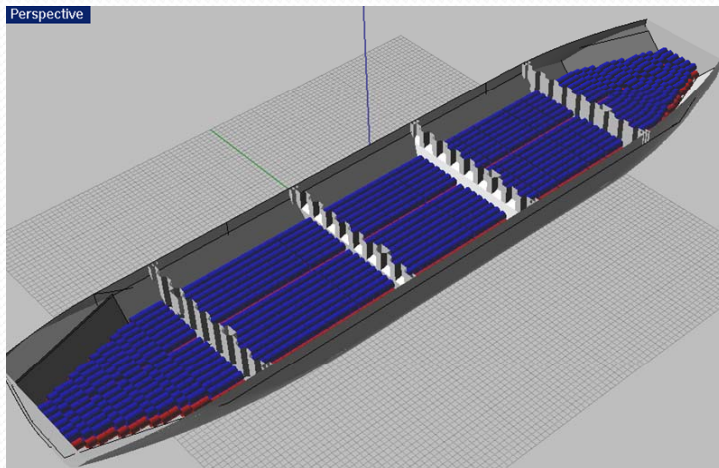


Loading of steel coils

Steel coils are heavy cargo - should be extra careful to confirm the local strength of the tank top required.

TECHNICAL - ADVISORY



"Can the cargo hold be loaded with steel coils up to the weight calculated by multiplying the tank top area(m²) by the allowable tank top load(ton/m²)?"

This question has been asked many times. Standard steel coil loading conditions may be included in the loading manual are normally based on steel coils with the same weight and dimensions. When coils are different, due to the special features of steel coil loads, the local structure strength of the inner bottom plating and longitudinals must be specially checked. Due to the stowage arrangements made, the point loads on some longitudinals caused them to bend downwards. This in turn affected the supporting transverse girders, and especially, caused buckling in the floors (the web plates in the transverse girder), and bending of some local stiffeners.

The vessel is scheduled for repairs to maintain Class. Most probably many plates and stiffeners in the transverse girders will need to be cut out and replaced, together with some of the affected longitudinals.

Effepi Advisory/Consultancy Services

Effepi provides advice on ship-specific by receiving account many similar cases in the past and prepares the necessary plans for the smooth and fast approval by the classification society

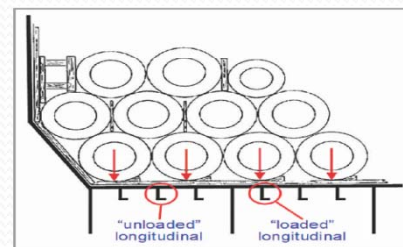
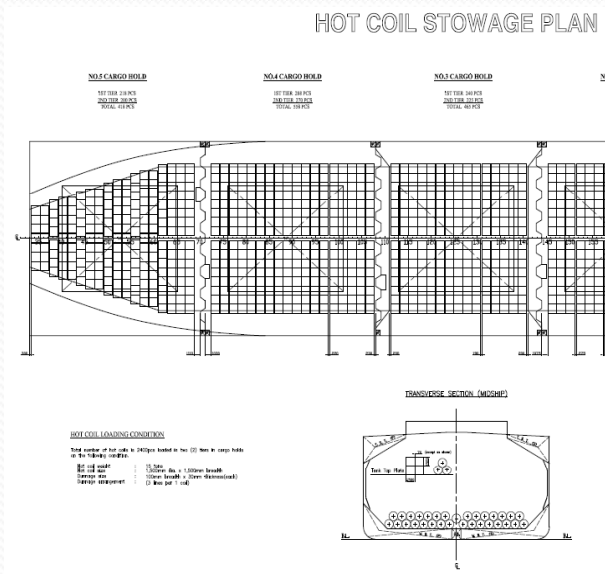


Fig.2: illustration of a typical loading situation of steel coils, showing how the point loads from the steel coils will affect some longitudinals more than others.

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