



TECHNICAL CIRCULAR No. 460 of 08th January 2018

To: All Surveyors/Auditors

Applicable to flag: All Flags

Deck structure inspection-3, Under-deck inspection

Reference: CONARINA class

Deck structure inspection-3
Under-deck inspection

3 What to look for - Under-deck inspection

3.1 Material wastage

3.1.1 The level of wastage of under-deck stiffeners/structures may have to be established by means of thickness measurements. As mentioned previously the combination of the effects from the marine environment and the local atmosphere will give rise to high corrosion rates.

3.1.2 Severe corrosion of the hatch coaming from inside and of under deck girders may occur due to difficult access for maintenance of the protective coating. This may in turn lead to fractures.

3.2 Deformations

3.2.1 Buckling should be looked for in the primary supporting structure, e.g. hatch end beams and longitudinal girders beneath the longitudinal hatch coamings, if sagging of deck panels has been observed during on-deck inspection. Such buckling may also be the initial observation of damage caused by lateral overloading because of excessive deck cargo, improper distribution/support of deck cargoes, sea water on deck in heavy weather, or a combination of these causes.

3.3 Fractures

3.3.1 Fractures in the connection between the transverse bulkheads, girders/stiffeners and the deck plating may occur. This is often associated with a reduction in area of the connection due to corrosion.

3.3.2 Fractures in the primary supporting structure, e.g. hatch end beams may be found in the weld connections at the ends of the beams/girders.

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REFERENCES:

- **CONARINA class**

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Kindest Regards,
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