



TECHNICAL CIRCULAR No. 483 of 07th May 2018

To: All Surveyors/Auditors

Applicable to flag: All Flags

Crevice Corrosion

Reference: Corrosion studies

Crevice Corrosion

Crevice corrosion takes place in small gaps and narrow spaces between metal surfaces where water (or any other electrolyte solution) has stagnated. The chemical processes that cause this corrosion are complex and dependent on several variables

The structural integrity of metal structures depends heavily on the strength of the connections between individual members. These connections, most times, come in the form of bolts and washers, rivets, screws and welding.

Although two metal components can appear to be firmly fastened together, small gaps can exist between the connected pieces. Over time, corrosion can form at the interface between the connected metals that can significantly weaken the connection's load carrying capacity. This form of corrosion is called crevice corrosion because it is formed at the crevice between two joining metal surfaces.

REFERENCES:

- IMO and courtesy Krystal Nanan

- ATTACHMENTS: No.

Kindest Regards,
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