

Strength Assessments for Parts of Type C Independent Tanks Coming into Contact with Structural Supports

Amended Guidance

Guidance for the Survey and Construction of Steel Ships Part N

Reason for Amendment

Type C independent tanks of a horizontal cylindrical shape are typically supported by saddles and the parts of the tank which come into contact with these saddles are provided with circumferential reinforcement. IACS Unified Interpretation (UI) GC8 specifies strength criteria for such reinforcements and these criteria have already been incorporated into the NK Rules.

Based upon an amendment of IGC Code adopted in May 2014, IACS corrected reference numbers used in UI GC8 in order to remain consistent with the amended IGC Code. In addition, IACS also made it clear that UI GC8 is to be applied to the reinforcements of horizontal cylindrical tanks. These amendments to UI GC8 were adopted as UI GC8 (Rev.1) in June 2016.

Accordingly, relevant requirements were amended in accordance with UI GC8 (Rev.1).

In addition, requirements related to strength assessments of reinforcements were moved and load cases which are to be considered for such strength assessments were amended to comply with UI GC8 (Rev.1)

Outline of Amendment

- (1) Amended requirements related to the strength assessments of parts of type C independent tanks coming into contact with structural supports to specify that the requirements are also to be applied to horizontal cylindrical tanks.
- (2) Moved requirements related to strength assessments of reinforcements from the paragraph “Static Heel Loads” to the paragraph “Ultimate Design Condition” in the section “Type C Independent Tanks”.

Amended Requirements

Guidance for the Survey and Construction of Steel Ships
Part N: N4.13.9, N4.23.3