



Request for Drawing Question / Interpretation No. 13

of

AC Class Rule Version 1.4: December 8th 2015

Rule References: Rule References:

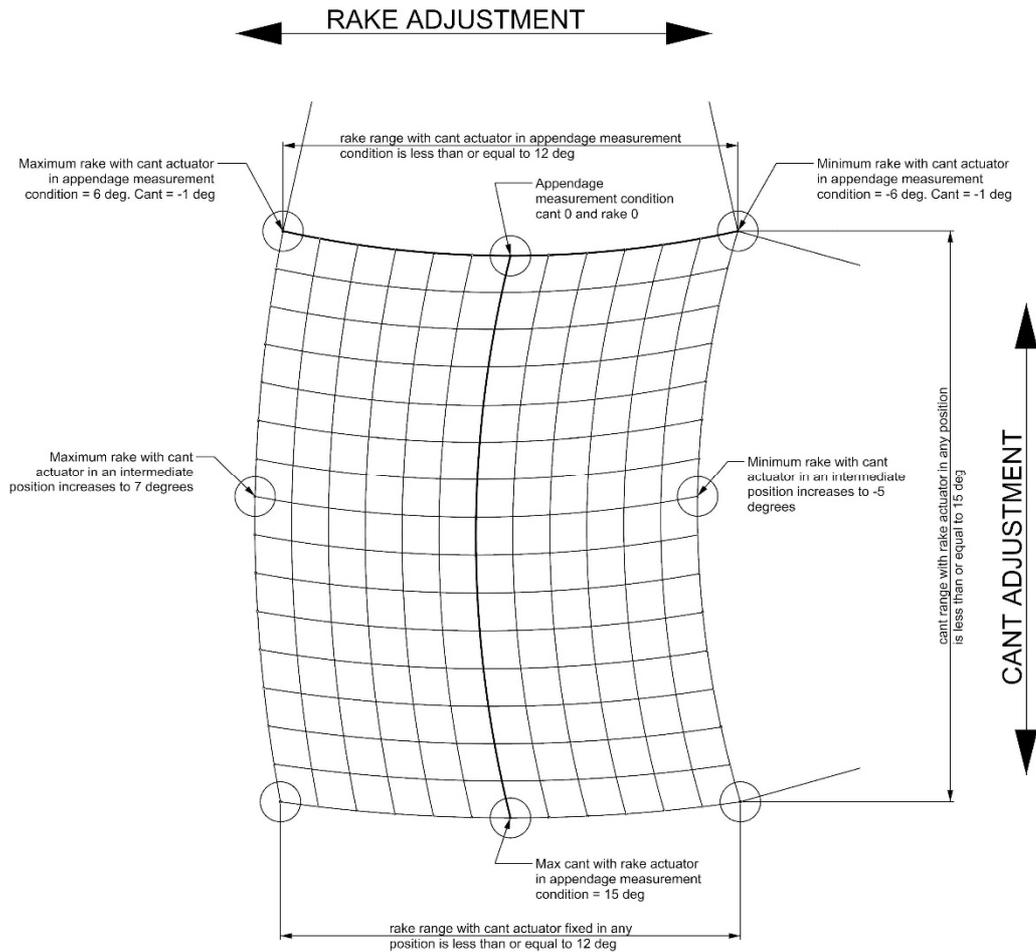
- 1.4 In interpreting this **AC Class Rule**, the definitions in Article 1 of the **Protocol** shall apply, and:
(b) **appendage measurement condition** means the condition of the **AC Class Yacht** as specified in Rule 27.2;
- 11.10 A **daggerboard** shall only:
(a) be retracted or extended; and
(b) rotate around no more than two axes (or combination of the two axes) whose limits shall be determined as follows:
(i) The maximum rotation about the **cant axis** shall be 15 degrees with the **rake axis** rotation set to **appendage measurement condition**; and
(ii) The maximum rotation about the **rake axis** shall be 12 degrees and the **rake axis** shall be within 15 degrees of horizontal with the **daggerboard** set to **appendage measurement condition**.
- 15.3 (b) (b) If as a result of daggerboard rotation about the rake axis, incidental rotation about the cant axis may occur but shall not exceed 3 degrees.
- 27.2 In **appendage measurement condition**:
(a) **appendages** shall be in the position resulting in their deepest draft below **MWP**;
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Questions:

In Rule 11.10(b), rotation limits on cant and rake are only specified with rake and cant set respectively to their **appendage measurement condition** positions.

1. Are there any limits on rotation about the **cant axis** when the rake is not set to its **appendage measurement condition** position?
2. Are there any limits on rotation about the **rake axis** when the cant is not set to its **appendage measurement condition** position?
3. If the answers to either Q1 or Q2 are YES, does a yacht comply with the **AC Class Rule** limits on cant and rake if:
 - (a) the range of cant at any given rake does not exceed 15 degrees, and
 - (b) the range of rake at any given cant does not exceed 12 degrees?

4. For clarity, the attached drawing shows a top-down view of the kinematic range of a **daggerboard** which complies with the conditions outlined in question 3, above. Does the range of cant and rake shown in the drawing comply with the limits of the **AC Class Rule**?



Interpretation.

1. Yes, please see Rule 15.3 (b).
2. Yes, please see Rule 15.3 (b).
3. (a) Yes, please see Rule 15.3 (b)
(b) Yes, please see Rule 15.3 (b)
4. The Measurement Committee is unable to make a determination. The appendage measurement condition can't be determined with the information provided in the drawing. Attention is also drawn to Rules 11.7 and 15.3.

The measurement procedure for the determination of cant and rake is anticipated to be as follows.

1. Find the position of maximum draft by varying the rake and cant (appendage measurement condition)
2. While holding the daggerboard rake in its maximum draft position rotate the daggerboard about its cant axis to its maximum and minimum and recording these maximum and minima angles to determine the range of cant.

3. While holding the daggerboard cant in its maximum draft position rotate the daggerboard about its rake axis to its maximum and minimum and recording these maximum and minimum to determine the range of rake.
4. With the daggerboard rotated through its full range determine that incidental rotation about the cant axis does not exceed 3 degrees. This limitation shall be checked with the daggerboard as close as possible to its maximum and minimum cant range.

END

Issued by the America's Cup Measurement Committee on March 4 2016