



Request for Drawing Question / Interpretation No. 18

of

AC Class Rule Version 1.4: December 8th 2015

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;

...

(d) **cant axis** means a **daggerboard** axis of rotation that is within 3.0 degrees of parallel to a **longitudinal** axis;

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 Control Systems for **Appendage** rotation about the **rake axis**

...

(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**:

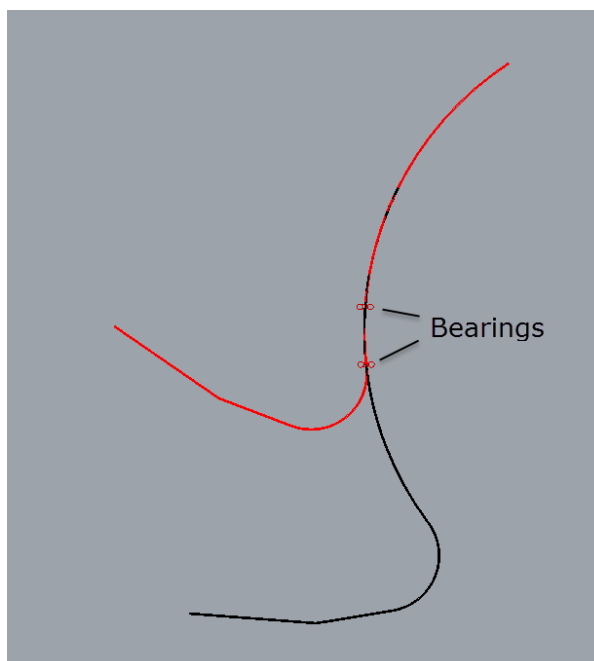
(a) **appendages** shall be in the position resulting in their deepest draft below **MWP**; and

(b) **rudder** root chords shall be parallel to the **hull centerplane**;

Interpretation #13 of the AC Class Rule.

Questions:

The sketch below shows the front view of a **daggerboard** in its **measurement condition** (in black). The daggerboard is restrained by two sets of bearings which are in turn able to rotate about an athwartships rake axis and a fore and aft cant axis, to the full extent permitted by rules 11.10 (b) and 15.3 (b)



As the daggerboard is moved to its retracted position (in red) the bearings remain as set for the **appendage measurement condition**. The diagram shows that during retraction the daggerboard undergoes an apparent change in cant angle.

Given that, in the **measurement condition**, the **daggerboard** can move through the full extent of cant and rake rotation permitted under Rules 11.10b & 15.3b, can the Measurement Committee confirm that the apparent change in cant angle of the daggerboard, arising from the action of retraction, is permitted under the Class Rule.

Interpretation:

Yes, incidental cant which occurs as result of the extension or retraction of the daggerboard due to its inherent shape is permitted. Attention is drawn to all the limitations and requirements of section 11 of the Rule with particular notice to 11.7 and 11.10 which limit the movement of daggerboards.

END

Issued by the America's Cup Measurement Committee on May 42016