



Request for Drawing Question / Interpretation No. 19

of

**AC Class Rule** Version 1.4: December 8<sup>th</sup> 2015

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**Rule References:**

- 1.4
- (a) **appendage** means any component that is wholly or partially submerged at any time during racing that is connected to and external to the **hull** canoe body, or a **rudder wing** that is connected to a **rudder**, and including integral components that extend from outside the **hull** into the **hull** (e.g. **daggerboard** head or **rudder** stock). **Appendage** does not include **cross structure**, **daggerboard** bearings, **rudder** bearings, **daggerboard** fairings, other fairings that are above 0.100 m above **MWP**, deck hardware and small fittings;
  - (ee) **rudder** means a movable **appendage** primarily used to affect steerage;
- 7.2 The **hulls** outer surfaces shall be built from a **Measurement Committee** approved mold referenced in Rule 6.2 except for **hull** surface that is:
- (b) on the lower outer surface of the **hull** surrounding the **rudder** penetration in accordance with Rule 10 and does not exceed 0.600 m **longitudinally** by 0.150 m **transversely** either side of the **hull centerplane**;
- 10.3 No part of a **rudder**, external to the **hull**, and excluding the **rudder wing**, while in **appendage measurement condition**, shall be greater than 0.100 m from the **hull centerplane**.
- 10.7 **Rudder** and **rudder wing** components shall be rigidly fixed to each other and their shapes shall not be adjusted while racing.

Appendix C, Drawing ACC-2003 RevA-HULL LAMINATE

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**Questions:**

The attached drawing shows details of a **rudder** installation at the intersection of the **rudder** with the underside of the **hull**.

Part of the **rudder** is a closing plate (identified as "A" in the drawing), rigidly attached to the rest of the **rudder**.

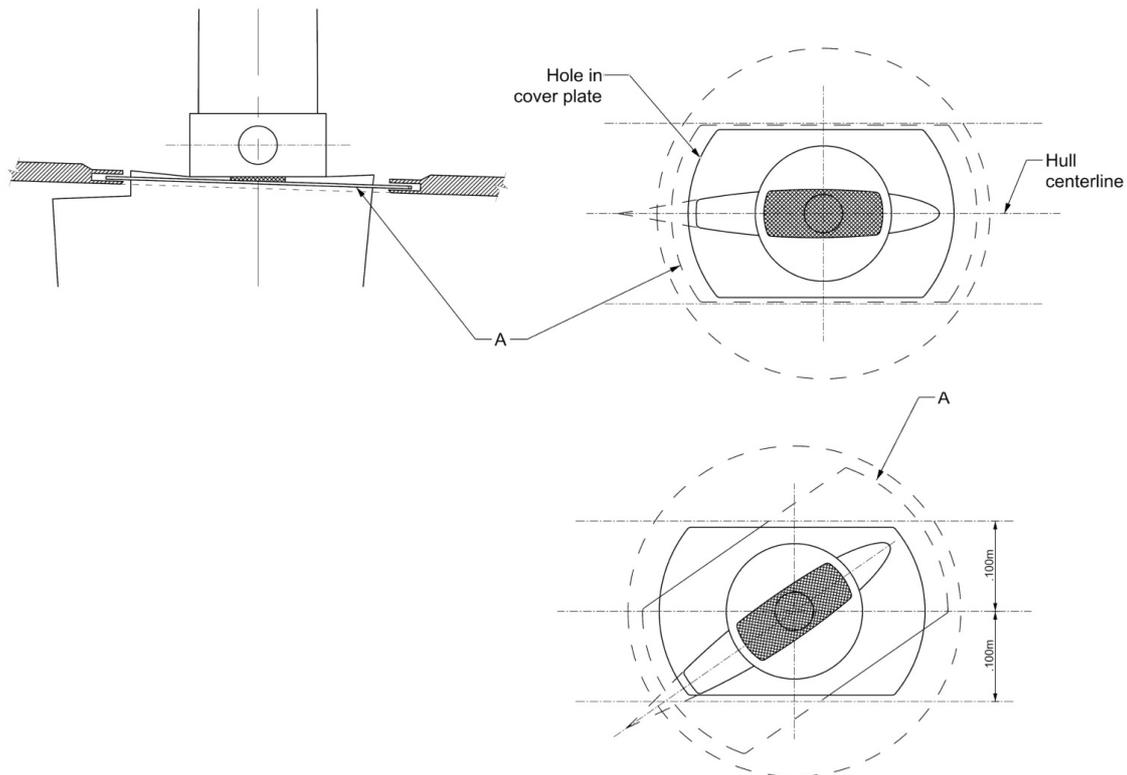
All components shown comply with the construction requirements of Class Rules 18 and 19, as appropriate.

The opening in the **hull** for the **rudder** installation complies with Class Rule 7.2(b).

The **rudder** complies with all the requirements of Class Rule 10.

1. Is the closing plate "external to the **hull**" for purposes of Class Rule 10.3?

## 2. What additional rules are applicable to the closing plate?

**Interpretation:**

1. No. A part of the rudder “external to the hull” is interpreted to mean any part of the rudder that is outside the outermost surface of the hull. Within the area defined in Rule 7.2(b), the outermost surface of the hull, excluding the rudder and its components, shall be defined by the hull IGES file.

2. Other rules that are applicable are:

*Rule 1.4 (ff) **rudder wing** means an **appendage** attached to a **rudder** and primarily used to affect pitch.*

Therefore the closing plate is not a rudder wing.

*Rule 6.2 requires the hull to be built using Measurement Committee certified Master Patterns. The build tolerance of these patterns shall be +/- 0.002m referenced to the IGES File.*

*Rule 7.2 (a) permits the hull in the area surrounding the rudder penetration to be built without using the certified master patterns.*

This Rule does not provide relief from the requirement that the shape of the hull in this area match the hull IGES file

*Rule 7.6 (b) which permits flexible surfaces connected to the rudder on the upper part of a hull.*

This closing plate is not on the upper part of the hull.

*Rule 10.1 Each **hull** shall have one **rudder** fitted with one **rudder wing**. The **rudder** or **rudder stock** shall penetrate the **hull**.*

*Rule 10.7 **Rudder** and **rudder wing** components shall be rigidly fixed to each other and their shapes shall not be adjusted while racing.*

The described closing plate is rigidly affixed to the rudder, but its 3 dimensional shape must not change while racing.

The configuration described must not adjust the shape of the closing plate as the rudder is rotated and/or raked. If the 3 dimensional shape of the closing plate changes through any permitted rotation (including rake), it is not be permitted.

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END

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