



Request for Interpretation No. 68

of

AC Class Rule Version 1.8: November 18th 2016

Rule References:

- 8.5 When viewed orthogonal to **MWP**, the combined projected area of the **cross structure** within 3.200 m of the **yacht centerplane** shall not exceed 33.00 m². Spray guards referred to in Rule 8.4(a) are excluded in this projected area calculation. Additionally:
- (a) this area shall be symmetrical about the **yacht centerplane**; and
 - (b) **rigging**, fittings, attachments or other surfaces shall be included in this projected area if they have a chord length/thickness ratio greater than 3:1;

- 8.13 There shall be equipment lockers with location and dimensions defined in the **cross structure** construction specifications in Appendix D, which shall be part of **cross structure**.

Drawings ACC-1001-RevC CROSS STRUCTURE AREA, and ACC-11100-RevB MEDIA BAY GA

Interpretation 3 and interpretation 51.

Background:

Drawing ACC-1001 has the following note about how to account for the areas reserved for media equipment in calculating the projected area of **cross structure** per Rule 8.5:

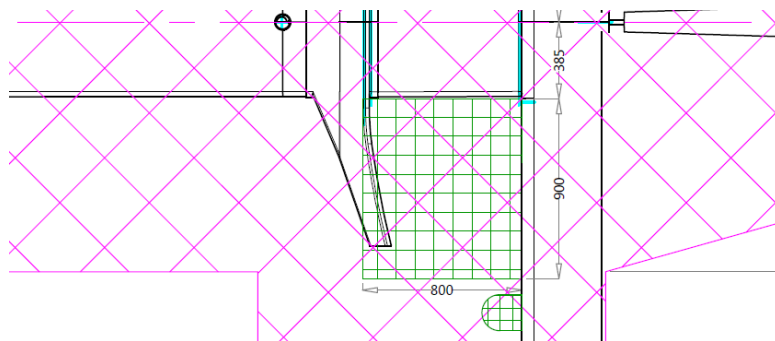


CROSS STRUCTURE ALLOWED



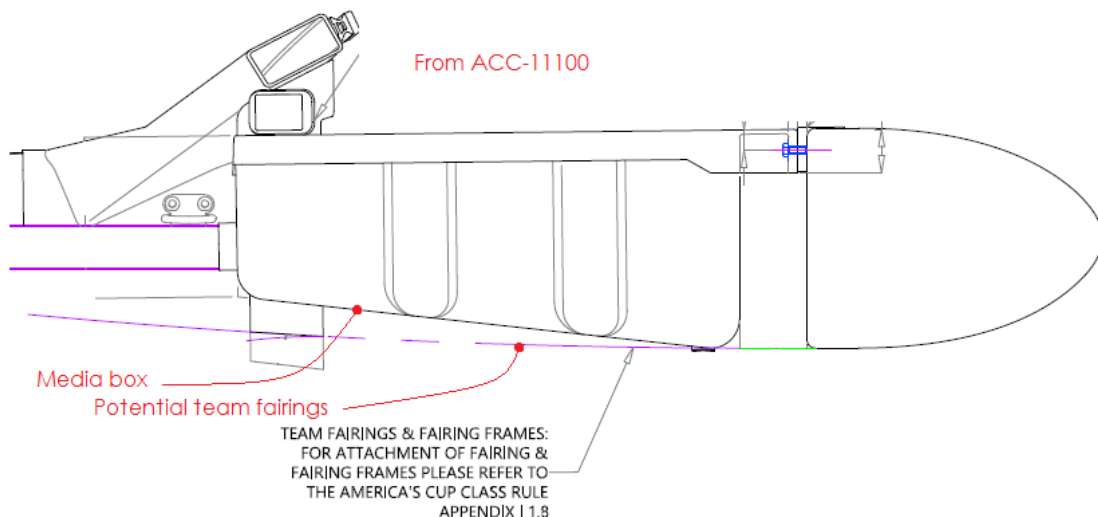
MAXIMUM AREAS RESERVED FOR MEDIA EQUIPMENT. CROSS STRUCTURE MUST ACCOMMODATE MEDIA EQUIPMENT PER APPENDIX I. THE MEDIA RESERVED AREAS, WHERE THEY OVERLAP WITH CROSS STRUCTURE, WILL NOT BE SUBTRACTED FROM THE PROJECTED AREA CALCULATION DESCRIBED IN RULE 8.5

Drawing ACC-1001 has two areas reserved for the MEDIA BAYS.



Questions:

- 1) Rule 8.13 references “equipment lockers” and states that they will be specified in Appendix D, and that they will be part of the **cross structure**. There are no references to either "equipment lockers" or "media bays" in Appendix D. The only reference in Appendix D that might be linked to “equipment lockers” or the “media bays” is the reserved area in drawing ACC-1001 as shown above. Are the "equipment lockers" referenced in rule 8.13 the same thing as the "media bays" in drawing ACC-11100?
- 2) If the answer to 1) is yes, are the media bays considered part of the **cross structure** as stated in Rule 8.13, and therefore always included in the calculation of the projected area of **cross structure** per Rule 8.5?
- 3) If the answer to 2) is yes, if a team has an aerodynamic surface under the media bay like that shown in drawing ACC-11100 (see below), is the projected area of this aerodynamic surface, where it overlaps the projected area of the media bay, counted as additional projected area for purposes of Rule 8.5, as might be inferred from **interpretation 3**?
- 4) If the answer to 2) is no, and if a team does not install aerodynamic fairings under the media box, such that there is no "overlap with cross structure" as described in the ACC-1001 drawing note, may the projected area of the media box be subtracted from the projected area of **cross structure** calculation per Rule 8.5?

**Interpretation:**

- 1) Yes. The “equipment lockers” indicated in Rule 8.13 are the same items now called “Media Bays” and described in drawing ACC-11100 MEDIA BAY GA.
- 2) Yes. The area of the Media Bays viewed orthogonal to **MWP** is included in the projected area calculation described in Rule 8.5.
- 3) No. Interpretation 3 ensures that the projected areas of completely independent aero/hydrodynamic bodies are added for the purposes of Rule 8.5. However, the projected areas of the upper and lower surfaces of a single aero/hydrodynamic body are not added together. For instance, the upper and lower surfaces of a conventional beam fairing will not be counted separately, as there is no significant aerodynamic flow between the two surfaces.
- 4) No, The Media Bays form part of the projected area of the **cross structure** and shall be always counted in the projected area calculation described in Rule 8.5.

END

Issued by the America's Cup Measurement Committee on January 30, 2017.