

CHALLENGER OF RECORD & DEFENDER

AMERICA'S CUP 36

AC75 CLASS RULE AMENDMENT #I

UNANIMOUSLY AGREED AMENDMENT

AC75 Class Rule 6.4

Proposed amendment:

6.4 Materials shall have a maximum elastic modulus as detailed below:

Material category	Maximum Modulus (GPa)	Certificates Required
Fibre reinforcement in foils, rudders, masts, battens and bowsprits	395	Yes
*Fibre reinforcement in thermoplastic components except in foils, rudders, masts, battens and bowsprits	Unlimited	No
Uncontrolled components	Unlimited	No
Fibre reinforcement in components not listed above	300	Yes
Core material in all components	75	No
Surface treatments	Unlimited	No
Other material	220	No

**As described in Rules 7.3.*

Amended language:

6.4 Materials shall have a maximum elastic modulus as detailed below:

Material category	Maximum Modulus (GPa)	Certificates Required
Fibre reinforcement in foils, rudders, masts, battens and bowsprits	395	Yes
*Fibre reinforcement in thermoplastic components except in foils, rudders, masts, battens and bowsprits	Unlimited	No
Uncontrolled components	Unlimited	No
Fibre reinforcement in components not listed above	300	Yes
Core material in all components	75	No
Surface treatments	Unlimited	No
Other material	220	No

**As described in Rules 7.3.*

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AC75 Class Rule 10.1

Proposed amendment:

10.1 The mass of components and crew on an **AC75 Class Yacht** shall be:

Component	mass (kg)	x or u (m)	z or w (m)
...			
Mast and mainsail assembly: (u, v, w) frame	*m_M	‡-1.00	*vw_M
...			

**Measured, †Supplied equipment, ‡Assumed*

Amended language:

10.1 The mass of components and crew on an **AC75 Class Yacht** shall be:

Component	mass (kg)	x or u (m)	z or w (m)
...			
Mast and mainsail assembly: (u, v, w) frame	*m_M	‡-1.00	*w_M
...			

**Measured, †Supplied equipment, ‡Assumed*

AC75 Class Rule 11.12

Proposed amendment:

11.12 There must be an angle of heel (rotation of the **hull** about a **longitudinal** axis) of no more than 90° **such** that, when constrained to such a heel angle and left free to float to equilibrium in the other degrees of freedom, under the conditions of Rule 11.9, ~~there is a transverse separation of~~ the centre of mass of the **yacht assembly** and the centre of buoyancy of the **hull surface**, ~~when both are projected on to the resulting floatation waterplane, are separated by~~ ~~of~~ at least ~~0.6~~ 1.200 m.

Amended language:

11.12 There must be an angle of heel (rotation of the **hull** about a **longitudinal** axis) of no more than 90° such that, when constrained to such a heel angle and left free to float to equilibrium in the other degrees of freedom, under the conditions of Rule 11.9, the centre of mass of the **yacht assembly** and the centre of buoyancy of the **hull surface**, when both are projected on to the resulting floatation waterplane, are separated by at least 1.200 m.

AC75 Class Rule 11.14 b)

Proposed Amendment:

11.14 (b) For any distinct retained water volume, the drainage requirement of Rule 11.14 (a) will be deemed to be met if at any water level, for every 1.000 m³ of retained volume, an area open to drainage and free from obstructions of at least ~~0.100~~ 0.050 m² is present below that water level.

Amended language:

11.14 (b) For any distinct retained water volume, the drainage requirement of Rule 11.14 (a) will be deemed to be met if at any water level, for every 1.000 m³ of retained volume, an area open to drainage and free from obstructions of at least 0.050 m² is present below that water level.

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AC75 Class Rule 12.5

Proposed Amendment:

12.5 No part of the **yacht** except the **mast**, **foils**, sails, rigging, supplied media equipment and wind instrumentation shall lie more than 0.200 m above **MRP**.

Amended language:

12.5 No part of the **yacht** except the **mast**, **foils**, sails, rigging, supplied media equipment and wind instrumentation shall lie more than 0.200 m above **MRP**.

Add AC75 Class Rule 13.10

Add new language:

13.10 The **foil wing** shall include at least one cavity of 80 mm in length and 15.6 mm internal diameter that contains a supplied ultrasonic transmitter permitted by 23.1 (f), or a casing of equivalent size and weight. For the avoidance of doubt, the above cavity or cavities shall comply with Rule 13.6.

AC75 Class Rule 20.11

Proposed amendment:

20.11 The components that may make up a mainsail are limited to:

- (a) a maximum of two sail skins;
- (b) battens as described in Rule 20.22 and their associated connections as described in Rule 20.23;
- (c) sail hardware;
- (d) a single leech, head and foot line per sail skin no greater than 8 mm in diameter;
- (e) luff attachment devices such as bolt ropes;
- (f) control systems and structures as permitted in Rule 20.26;
- (g) fairings as permitted in Rule 20.21;
- (h) components of an ILS and a CIS; ~~and~~
- (i) woollies; and
- (j) buoyancy systems mandated by Rule 20.24.

Amended language:

20.11 The components that may make up a mainsail are limited to:

- (a) a maximum of two sail skins;
- (b) battens as described in Rule 20.22 and their associated connections as described in Rule 20.23;
- (c) sail hardware;
- (d) a single leech, head and foot line per sail skin no greater than 8 mm in diameter;
- (e) luff attachment devices such as bolt ropes;
- (f) control systems and structures as permitted in Rule 20.26;
- (g) fairings as permitted in Rule 20.21;
- (h) components of an ILS and a CIS;

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- (i) woollies; and
- (j) buoyancy systems mandated by Rule 20.24.

AC75 Class Rule 23.1

Proposed amendment:

- 23.1 Electric or electronic components or circuits are permitted only as:
- (a) part of an **ECC, ILS, or CIS**;
 - (b) standalone **crew indication devices**, such as wristwatches, that are incapable of measuring or receiving any part of the **yacht state**;
 - (c) standalone **hardwired** cameras and screens mounted on the **yacht** to aid visibility of different parts of the **yacht**, providing no information other than raw audio and video from the **yacht** is transmitted, played or displayed;
 - (d) supplied and required by **COR/D**, the **Rules Committee** or the **Measurement Committee**, including permitted devices connected to these supplied components; ~~and~~
 - (e) bilge pumps; ~~and~~
 - (f) ~~supplied ultrasonic transmitters.~~

Amended language:

- 23.1 Electric or electronic components or circuits are permitted only as:
- (a) part of an **ECC, ILS, or CIS**;
 - (b) standalone **crew indication devices**, such as wristwatches, that are incapable of measuring or receiving any part of the **yacht state**;
 - (c) standalone **hardwired** cameras and screens mounted on the **yacht** to aid visibility of different parts of the **yacht**, providing no information other than raw audio and video from the **yacht** is transmitted, played or displayed;
 - (d) supplied and required by **COR/D**, the **Rules Committee** or the **Measurement Committee**, including permitted devices connected to these supplied components;
 - (e) bilge pumps; and
 - (f) supplied ultrasonic transmitters.

AC75 Class Rule 19.15

Proposed amendment:

- 19.15 **Code zeros** shall have a minimum **LP** of 10.0m, a ~~minimum~~ **LL** of 20.0m and shall be tacked forward of 22.760 m in front of **TRP**.

Amended language:

- 19.15 **Code zeros** shall have a minimum **LP** of 10.0m, a minimum **LL** of 20.0m and shall be tacked forward of 22.760 m in front of **TRP**.

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AC75 Class Rule 34

Add new language:

Date	Rule	Who	Item
31/10/2018	13.10	COR/D	Ultrasonic transmitter order deadline and delivery date

AC75 Class Rule 35.74

Proposed Amendment:

35.74 **Mast lower plane**

The plane perpendicular to the aft face of the **mast surface** at a height along the aft face of the **mast surface** of 1.~~5~~200 m above the **MRP** as shown in Figure 20.3.

Amended language:


35.74 **Mast lower plane**

The plane perpendicular to the aft face of the **mast surface** at a height along the aft face of the **mast surface** of 1.500 m above the **MRP** as shown in Figure 20.3.

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Acceptance of this **AMENDMENT** for:

Emirates Team New Zealand

Name DAV BERNASCONI (Defender Representative)
Signature  Date 10 OCTOBER 2018

Luna Rossa Challenge

Name (Challenge Representative)
Signature Date

NYYC American Magic

Name (Challenge Representative)
Signature Date

Ineos Team UK

Name (Challenge Representative)
Signature Date

CHALLENGER OF RECORD & DEFENDER

AMERICA'S CUP 36

Acceptance of this **AMENDMENT** for:

Emirates Team New Zealand

Name

(Defender Representative)

Signature

Date

Luna Rossa Challenge

Name MAX SIRENA

(Challenge Representative)

Signature 

Date 10-10-2018

NYYC American Magic

Name

(Challenge Representative)

Signature

Date

Ineos Team UK

Name

(Challenge Representative)

Signature

Date

CHALLENGER OF RECORD & DEFENDER AMERICA'S CUP 36

Acceptance of this **AMENDMENT** for:

Emirates Team New Zealand

Name (Defender Representative)
Signature Date

Luna Rossa Challenge

Name (Challenge Representative)
Signature Date

NYYC American Magic

Name Terry Hutchinson (Challenge Representative)
Signature *Terry Hutchinson* Date October 8, 2018

Ineos Team UK

Name (Challenge Representative)
Signature Date

CHALLENGER OF RECORD & DEFENDER

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Acceptance of this **AMENDMENT** for:

Emirates Team New Zealand

Name (Defender Representative)
Signature Date

Luna Rossa Challenge

Name (Challenge Representative)
Signature Date

NYYC American Magic

Name (Challenge Representative)
Signature Date

Ineos Team UK

Name Grant Simmer (Challenge Representative)
Signature [Signature] Date 5/10/18