

	APPENDIX R2	
Bye-Laws to Rule 39 – Boats and Equipment	Bye-Laws to Rule 28 – Boats and Equipment	
Requirements for racing boats and equipment. Failure to comply with this Bye-Law shall result in a sanction up to disqualification.	Requirements for racing boats and equipment. Failure to comply with this Bye-Law shall result in a sanction up to disqualification. <u>All safety requirements described here are minimum requirements. It is the responsibility of the member federation concerned and the rowers to ensure their safety with regards to their rowing equipment.</u>	Moved from 3.1 in this Bye-Law.
1. Boat Length	1) 1. Boats Length	
1.1 Maximum Length – All boats used in eights events at World Rowing Championship, Olympic, and Olympic qualification regattas, Regional Games and Continental Championships and at all International Regattas shall be a minimum of two sections, with no section longer than 11.9 m.	a) 1.1 Maximum Length – All boats used in eights events at World Rowing Championship, Olympic, and Olympic qualification regattas, Regional Games and Continental Championships and at all International Regattas shall be a minimum of two sections, with no section longer than 11.9 m.	<u>Relevant for all regattas under these Rules so don't need to specify</u>
1.2 Minimum Length – The minimum overall length of a racing boat shall be 7.20 metres. This will be measured from the front of the bow ball to the furthest aft extent of the boat, which may include an extension beyond the hull. If an extension is used it shall be firmly affixed to the stern and terminate in a 4 cm ball as described in Bye-Laws to Rule 39, paragraph 2.4. If a boat cannot be correctly aligned because it is less than the minimum overall length, the Starter may exclude the crew from the race. This rule does not apply to boats used in Coastal Rowing events.	b) 1.2 Minimum Length – The minimum overall length of a racing boat shall be 7.20 metres. This will be measured from the front of the bow ball to the furthest aft extent of the boat, which may include an extension beyond the hull. If an extension is used it shall be firmly affixed to the stern and terminate in a 4 cm ball as described in Bye-Laws to Rule 39, paragraph 2.4 f) below. If a boat cannot be correctly aligned because it is less than the minimum overall length, the Starter may exclude the crew from the race. This rule does not apply to boats used in <u>para rowing events and cCoastal cRowing events.</u>	Updating Rule numbers. Clarification that the minimum boat length does not include para rowing events.
	c) <u>Boat Design – All boats used in international regattas shall be mono-hulls, unless otherwise agreed by the Executive Committee.</u>	Addition to restrict dual hull boats unless specifically allowed.
	d) <u>Coxswain's Seat – The opening of the coxswain's seat must be at least 70 cm long and it must be as wide as the boat for at least 50 cm. The inner surface of the</u>	Moved from Safety section

	<u>enclosed part must be smooth and no structure of any sort may restrict the inner width of the coxswain's section.</u>	Typo correction
	e) Flotation – All boats used in World Rowing Championship, Olympic, Paralympic, Youth Olympic and relevant qualification regattas, World Rowing Cup regattas and all international regattas and international matches shall meet the flotation requirements specified in FISA's Minimum Guidelines for the Safe Practice of Rowing, i.e. "A boat when full of water with a crew of average weight equal to the design weight stated on the boat's production plaque, seated in the rowing position should float such that the top of the seat is a maximum of 5 cm below the static waterline". It shall be the sole responsibility of the club or member federation using a boat to ensure that it complies with this requirement.	Moved from Safety section. Removal of date to come in to practise. Capitalise to standardise.
	f) <u>Bow Balls – The bows of all boats shall be fitted with a solid ball shape, minimum diameter 4 cm which covers the point of the bows and is bright white. If this is an external part it shall be firmly affixed to the bow of the boat such that it does not significantly deflect if a side force is applied. If it is an integral part of the hull construction, it shall afford equivalent protection and visibility.</u>	Moved from Safety section
	g) <u>Quick release foot stretchers – In all boats the foot stretchers, shoes or other devices holding the feet of the rowers shall be a type which allows the rowers to get clear of the boat with no delay in an emergency.</u> i) <u>Where shoes or other devices holding the feet will remain in the boat, each shoe or device shall be independently restrained such that when the heel reaches the horizontal position the foot will be released from the shoe. In addition, where laces, Velcro or similar materials must be opened before</u>	Moved from Safety section. Numbering added for clarification on the two cases when shoes stay in the boat and when the shoe does not stay in the boat.

	<p><u>the rower can remove his feet from the shoes or other device, all such materials must be able to be released immediately by the rower with a single quick hand action of pulling on one easily accessible strap.</u></p> <p><u>ii) Where shoes or other devices holding the feet will not remain in the boat, each shoe or device must be able to be released by the rower either without using his hands or with a single quick hand action of pulling on one easily accessible strap or release device.</u></p>	
2. Oars	2) 2. Oars	
During rowing, all parts of the oar shall be fixed in place and incapable of movement independent of the movement of the oar as a whole.	a) During rowing, a All parts of the oar shall be fixed in place and incapable of movement independent of the movement of the oar as a whole <u>during rowing.</u>	
	b) <u>Oar Blade Thickness – Oar blades may not be less than 5 mm thick for sweep oars, and 3 mm thick for sculls. This thickness shall be measured 3 mm from the outer edge of the blade for sweep oars and 2 mm for sculls.</u>	Moved from Safety section of this Bye-Law
3. Safety	3. Safety	
3.1 Safety requirements described here are minimum requirements. It is the responsibility of the member federation concerned and the rowers to ensure their safety with regards to their rowing equipment.	3.1 Safety requirements described here are minimum requirements. It is the responsibility of the member federation concerned and the rowers to ensure their safety with regards to their rowing equipment.	Moved to start of Bye-law
3.2 Oar Blade Thickness – Oar blades may not be less than 5 mm thick for sweep oars, and 3 mm thick for sculls. This thickness shall be measured 3 mm from the outer edge of the blade for sweep oars and 2 mm for sculls.	3.2 Oar Blade Thickness – Oar blades may not be less than 5 mm thick for sweep oars, and 3 mm thick for sculls. This thickness shall be measured 3 mm from the outer edge of the blade for sweep oars and 2 mm for sculls.	Moved to Oars section
3.3 Coxswain's Seat – The opening of the coxswain's seat must be at least 70 cm long and it must be as wide as the boat for at least 50 cm. The inner surface of the enclosed part must be smooth and no structure of any sort may restrict the inner width of the coxswains section.	3.3 Coxswain's Seat – The opening of the coxswain's seat must be at least 70 cm long and it must be as wide as the boat for at least 50 cm. The inner surface of the enclosed part must be smooth and no structure of any sort may restrict the inner width of the coxswains section.	Moved to 1.4 of this Bye-Law

<p>3.4 Flotation – All boats used in World Rowing Championship, Olympic, Paralympic, Youth Olympic and relevant qualification regattas and World Rowing Cup regattas and, from 1 January 2019, all international regattas and international matches shall meet the flotation requirements specified in FISA's Minimum Guidelines for the Safe Practice of Rowing, i.e. "A boat when full of water with a crew of average weight equal to the design weight stated on the boat's production plaque, seated in the rowing position should float such that the top of the seat is a maximum of 5 cm below the static waterline". It shall be the sole responsibility of the club or member federation using a boat to ensure that it complies with this requirement.</p>	<p>3.4 Flotation—All boats used in World Rowing Championship, Olympic, Paralympic, Youth Olympic and relevant qualification regattas and World Rowing Cup regattas and, from 1 January 2019, all international regattas and international matches shall meet the flotation requirements specified in FISA's Minimum Guidelines for the Safe Practice of Rowing, i.e. "A boat when full of water with a crew of average weight equal to the design weight stated on the boat's production plaque, seated in the rowing position should float such that the top of the seat is a maximum of 5 cm below the static waterline". It shall be the sole responsibility of the club or member federation using a boat to ensure that it complies with this requirement.</p>	<p>Moved to 1.5 and removed of date of coming in to practise.</p>
<p>3.5 Bow Balls – The bows of all boats shall be fitted with a solid ball shape, minimum diameter 4 cm which covers the point of the bows and is bright white. If this is an external part it shall be firmly affixed to the bow of the boat such that it does not significantly deflect if a side force is applied. If it is an integral part of the hull construction, it shall afford equivalent protection and visibility.</p>	<p>3.5 Bow Balls—The bows of all boats shall be fitted with a solid ball shape, minimum diameter 4 cm which covers the point of the bows and is bright white. If this is an external part it shall be firmly affixed to the bow of the boat such that it does not significantly deflect if a side force is applied. If it is an integral part of the hull construction, it shall afford equivalent protection and visibility.</p>	<p>Moved to 1.6</p>
<p>3.6 Quick release foot stretchers – In all boats the foot stretchers, shoes or other devices holding the feet of the rowers shall be a type which allows the rowers to get clear of the boat with no delay in an emergency. Where shoes or other devices holding the feet will remain in the boat, each shoe or device shall be independently restrained such that when the heel reaches the horizontal position the foot will be released from the shoe. In addition, where laces, Velcro or similar materials must be opened before the rower can remove his feet from the shoes or other device, all such materials must be able to be released immediately by the rower with a single quick hand action of pulling on one easily accessible strap. Where shoes or other devices holding the feet will not remain in the boat, each shoe or device must be able to be released by the rower without using his hands or with a single quick</p>	<p>3.6 Quick release foot stretchers—In all boats the foot stretchers, shoes or other devices holding the feet of the rowers shall be a type which allows the rowers to get clear of the boat with no delay in an emergency. Where shoes or other devices holding the feet will remain in the boat, each shoe or device shall be independently restrained such that when the heel reaches the horizontal position the foot will be released from the shoe. In addition, where laces, Velcro or similar materials must be opened before the rower can remove his feet from the shoes or other device, all such materials must be able to be released immediately by the rower with a single quick hand action of pulling on one easily accessible strap. Where shoes or other devices holding the feet will not remain in the boat, each shoe or device must be able to be released by the rower without using his hands or with a single quick</p>	<p>Moved to 1.7</p>

hand action of pulling on one easily accessible strap or release device.	hand action of pulling on one easily accessible strap or release device.	
4. Identifications	3) 4. Identifications	
4.1 Production Plaque – All boats must have a production plaque or equivalent visible and permanently affixed inside the boat, up to 50 sq. cm in area, on which is written the name and address of the boat builder, its mark or logo, the year the boat was constructed, the average weight of the crew for which the boat is designed, the weight of the boat on construction or upon delivery and stating whether the boat meets the flotation requirements specified in FISA’s Minimum Guidelines for the Safe Practice of Rowing.	a) 4.1 Production Plaque – All boats must have a production plaque or equivalent visible and permanently affixed inside the boat, up to 50 sq. cm in area, on which is written the name and address of the boat builder, its mark or logo, the year the boat was constructed, the average weight of the crew for which the boat is designed, the weight of the boat on construction or upon delivery and stating whether the boat meets the flotation requirements specified in FISA’s Minimum Guidelines for the Safe Practice of Rowing.	
4.2 All boats and oars shall comply with the requirements set out in the Bye-Laws to Rule 50 (name, symbol, etc.).	b) 4.2 All boats and oars shall comply with the requirements set out in the Bye-Laws to Rule 38 50 (name, symbol identifications, etc.).	Updating of Rule number and references
5. Natural properties	4) 5. Natural properties	
5.1 No substances or structures (including riblets) capable of modifying the natural properties of water or of the boundary layer of the hull/water interface shall be used.	a) 5.1 No substances or structures (including riblets) capable of modifying the natural properties of water or of the boundary layer of the hull/water interface shall be used.	
6. Communication and Electronics	5) 6. Communication and Electronics	
6.1 Data Transmission – During racing (which shall mean at all times when racing “traffic rules” are in force), no communication with the crew is permitted from outside the boat using electric or electronic equipment. In addition, no data may be sent to, or received from the boat except as provided for in paragraph 6.3.	a) 6.1 Data Transmission – During racing (which shall mean at all times when racing “traffic rules” are in force), no communication with the crew is permitted from outside the boat using electric or electronic equipment. In addition, no data may be sent to, or received from the boat except as provided for in paragraph 5.b and 5.c 3.5.c)	Updating Rule numbers
6.2 Allowable Data – During racing, the only information allowed to the crew in the boat shall be: 6.2.1 Time 6.2.2 Stroke rate	b) 6.2 Allowable Data – During racing, the only information allowed to the crew in the boat shall be: i) 6.2.1 Time ii) 6.2.2 Stroke rate	

<p>6.2.3 Boat Velocity / Acceleration 6.2.4 Heart rate</p> <p><i>This information shall be designated as “allowable data”. This data and any information derived directly from it, may be recorded during racing for later use. No other data or information may be measured, recorded or stored.</i></p>	<p>iii) 6.2.3 Boat Velocity / Acceleration iv) 6.2.4 Heart rate</p> <p><i>This information shall be designated as “allowable data”. This data and any information derived directly from it, may be recorded during racing for later use. No other data or information may be measured, recorded or stored <u>except as provided for in paragraph 5.b., 5.c)</u></i></p>	Additional wording for clarification.
<p>6.3 Regatta Information – FISA may install on each boat a device(s) for the purpose of transmitting real-time race and other information which shall be owned by FISA and may be used for any purpose including presentation and promotion of the event and the sport.</p>	<p>c) 6.3 Regatta Information – FISA may install on each boat a device(s) for the purpose of <u>recording or</u> transmitting real-time race and other information which shall be owned by FISA and may be used for any purpose including presentation and promotion of the event and the sport.</p>	Addition to allow FISA to allow devices which record as well as transmit
<p>7. Promotional Equipment</p>	<p>6) 7. Promotional Equipment</p>	
<p>7.1 At World Rowing Championship, World Rowing Cup, Olympic, Paralympic, Youth Olympic and relevant qualification regattas, the Council may require crews to carry on their boats such equipment as it considers desirable for the better promotion of the sport of rowing (e.g. mini cameras, microphones, etc.) provided that such equipment is identical for all boats in a race.</p>	<p>a) 7.1 At World Rowing Championship, World Rowing Cup, Olympic, Paralympic, Youth Olympic and relevant qualification regattas, the Council may require crews to carry on their boats such equipment as it considers desirable for the better promotion of the sport of rowing (e.g. mini cameras, microphones, etc.) provided that such equipment is identical for all boats in a race.</p>	