

APPENDIX R2	APPENDIX R2	
2021 Version	Proposed Changes 2022	Comments
<b>Bye-Laws to Rule 28 – Boats and Equipment</b>	<b>Bye-Laws to Rule 28 – Boats and Equipment</b>	
<p>Requirements for racing boats and equipment.            Failure to comply with this Bye-Law shall result in a sanction up to disqualification.            All safety requirements described here are minimum requirements. It is the responsibility of the club or member federation concerned and the rowers to ensure their safety with regards to their rowing equipment.</p>	<p>Requirements for racing boats and equipment.            Failure to comply with this Bye-Law shall result in a sanction up to disqualification.            All safety requirements described here are minimum requirements. It is the responsibility of the club or member federation concerned and the rowers to ensure their safety with regards to their rowing equipment.</p>	
1) Boats	1) Boats	
<p>a) Maximum Length – All boats used in eights events shall be a minimum of two sections, with no section longer than 11.9 m.</p>	<p>a) Maximum Length – All boats used in eights events shall be a minimum of two sections, with no section longer than 11.9 m.</p>	
<p>b) 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 1) 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 para rowing events and coastal rowing events.</p>	<p>b) 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 1) 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 para rowing events and coastal rowing events.</p>	

<p>c) <i>Boat Design – All boats shall be displacement mono-hulls, unless otherwise agreed by the Executive Committee.</i></p>	<p>c) <i>Boat Design – All boats shall be displacement mono-hulls, unless otherwise agreed by the Executive Committee.</i></p>	
	<p><u>d) Fins - A fin is a plate, with single surface with or without cross-sectional shape, affixed to the hull below the water. Any number of fins are allowed but they must be fixed and vertical on the hull.</u></p>	<p><i>Insert new sub-paragraph defining fins</i></p>
	<p><u>e) Rudders - A rudder is a rotatable surface with its axis of rotation in the centreline plane of the hull. Only one rudder is allowed."</u></p>	<p><i>Insert new sub-paragraph defining rudders</i></p>
<p>d) <i>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 coxswain's section.</i></p>	<p><del>e) f)</del> <i>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 coxswain's section.</i></p>	<p><i>Revise letter</i></p>
<p>e) <i>Flotation – All boats shall meet the flotation requirements specified in World Rowing'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.</i></p>	<p><del>e) g)</del> <i>Flotation – All boats shall meet the flotation requirements specified in World Rowing'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.</i></p>	<p><i>Revise letter</i></p>

<p>f) <i>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 bow 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.</i></p>	<p><del>f)</del> <i>h) 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 bow 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.</i></p>	<p><i>Revise letter</i></p>
<p>g) <i>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.</i></p> <p>i) <i>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.</i></p> <p>ii) <i>Where shoes or other devices holding the feet will not remain in</i></p>	<p><del>g)</del> <i>i) 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.</i></p> <p>i) <i>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.</i></p> <p>ii) <i>Where shoes or other devices holding the feet will not remain in</i></p>	<p><i>Revise letter</i></p>

<i>the boat, each shoe or device must be able to be released by the rower either without using their hands or with a single quick hand action of pulling on one easily accessible strap or release device.</i>	<i>the boat, each shoe or device must be able to be released by the rower either without using their hands or with a single quick hand action of pulling on one easily accessible strap or release device.</i>	
2) Oars	2) Oars	
a) <i>All parts of the oar shall be fixed in place and incapable of movement independent of the movement of the oar as a whole during rowing.</i>	a) <i>All parts of the oar shall be fixed in place and incapable of movement independent of the movement of the oar as a whole during rowing.</i>	
b) <i>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.</i>	b) <i>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.</i>	
3) Identifications	3) Identifications	
a) <i>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 World Rowing’s Minimum Guidelines for the Safe Practice of Rowing.</i>	a) <i>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 World Rowing’s Minimum Guidelines for the Safe Practice of Rowing.</i>	

<p>b) All boats and oars shall comply with the requirements set out in the Bye-Laws to Rule 38 (Identifications, etc.).</p>	<p>b) All boats and oars shall comply with the requirements set out in the Bye-Laws to Rule 38 (Identifications, etc.).</p>	
<p>4) Natural properties</p>	<p>4) Natural properties</p>	
<p>a) 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.</p>	<p>a) 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.</p>	<p>Eliminate a) since no b)</p>
<p>5) Communication and Electronics</p>	<p>5) Communication and Electronics</p>	
<p>a) 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.c).</p>	<p>a. 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.c).</p>	
<p>b) Allowable Data – During racing, the only information allowed to the crew in the boat shall be:</p> <ul style="list-style-type: none"> <li>i) Time</li> <li>ii) Stroke rate</li> <li>iii) Boat Velocity / Acceleration</li> <li>iv) Heart rate</li> </ul> <p>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</p>	<p>b) Allowable Data – During racing, the only information allowed to the crew in the boat shall be:</p> <ul style="list-style-type: none"> <li>i) Time</li> <li>ii) Stroke rate</li> <li>iii) Boat Velocity / Acceleration</li> <li>iv) Heart rate</li> </ul> <p>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</p>	

<p><i>except as provided for in paragraph 5) c).</i></p>	<p><i>except as provided for in paragraph 5) c).</i></p>	
<p><i>c) Regatta Information – World Rowing may install on each boat a device(s) for the purpose of recording or transmitting real-time race and other information which shall be owned by World Rowing and may be used for any purpose including presentation and promotion of the event and the sport.</i></p>	<p><i>c) Regatta Information – World Rowing may install on each boat a device(s) for the purpose of recording or transmitting real-time race and other information which shall be owned by World Rowing and may be used for any purpose including presentation and promotion of the event and the sport.</i></p>	
<p><i>6) Promotional Equipment</i></p>	<p><i>6) Promotional Equipment</i></p>	
<p><i>a) 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.</i></p>	<p><i>a) 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.</i></p>	<p><i>Eliminate a) since no b)</i></p>