

## IM24CA TECHNICAL COMMITTEE RULE CHANGE PROPOSAL 2021 Rev 1

Subject: Masts

Date: August 10, 2021

The Technical Committee has been asked to identify all changes required to the current class rules to allow Selden Masts UK to be able to be approved as a licensed builder and supplier of spars for the Melges 24.

After reviewing the class rules, it is in our opinion that the following rules must be modified or added to accommodate this new mast:

### **C.9.3(a)(2) MAST USE**

#### **Current Rule:**

*C.9.3(a)(2). The spreader connector bar shall not be modified or changed during a regatta.*

#### **Proposed New Rule:**

*C.9.3(a)(2) The spreaders shall not be adjusted during a regatta.*

#### **Reason:**

This change is required to allow for the different spreader root design as supplied with the Selden Mast while still covering the original masts. Not all spars will have spreader bars.

### **F.3.2(a) CONSTRUCTION**

#### **Current Rule:**

*F.3.2(a). The spar shall be built from approved moulds approved by the Copyright Holder and World Sailing and to the approved building specification.*

#### **Proposed New Rule:**

*F.3.2(a). The spar shall be built to the approved building specification.*

#### **Reason:**

The class rules need to allow for both closed mould and spiral wound spar construction techniques.

### **F.3.2(d) CONSTRUCTION**

#### **Current Rule:**

*None*

#### **Proposed New Rule:**

*F.3.2(d). External re-reinforcement used as per the licensed builder's specification, shall not be measured as part of the spar's cross-sectional dimensions.*

#### **Reason:**

With a spiral wound mast, the re-enforcing is located on the outside of the spar section as opposed to inside on the moulded spars. This additional thickness may exceed the maximum allowable cross-sectional dimensions. The class rules need to allow the licensed builders to be able to re-enforce the spar build using either construction technique.

### **F.3.3(b) FITTINGS**

#### **Current Rule:**

*F.3.3(b) Spreader, including the spreader bar, to the approved design shall only be supplied by the licensed builder. The spreader shall be connected with the spreader bar only. The upper shroud shall be retained in the spreader tip in one of two ways:*

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- (i) For newer style, black spreaders: the upper shroud shall use the builder supplied retention clip or,
- (ii) For older style, white spreaders: the upper shroud may either be captive (as originally supplied) or retained with seizing wire in a slot cut into the spreader tip, parallel to the leading edge, no greater than 5.4mm in width and extending no further inboard than the original hole. Seizing wire may be threaded through two additional holes of the minimum necessary diameter, drilled for this purpose.

Stop swage balls are required above and below the spreader tip in all applications.

**Proposed New Rule:**

*F.3.3(b) Spreader, including the spreader base, shall only be supplied by the licensed builder. The upper shroud shall be retained in the spreader tip only using equipment supplied by the licensed builder at time of certification except for older style, white spreaders which may be modified to retain the shroud with seizing wire in a slot cut into the spreader tip, parallel to the leading edge, no greater than 5.4mm in width and extending no further inboard than the original hole. Seizing wire may be threaded through two additional holes of the minimum necessary diameter, drilled for this purpose.*

*Stop swage balls are required above and below the spreader tip in all applications.*

**Reason:**

The Selden mast does not utilize a cross bar design so the class rules must be altered to allow for a different spreader base design as supplied at the discretion of the licensed builder with class approval. With the new wording of this section, it is not required to describe the retention of the shroud at the spreader tip unless it differs from the originally supplied part with the exception as described with the modification allowed on the older white spreaders.

**F.3.4 DIMENSIONS**

**Current Rule:**

*F.3.4*

***Mast spar cross section above the mast foot  
fore-and-aft, minimum 115mm maximum 122mm  
transverse minimum 74mm maximum 78mm***

***Mast spar cross section at upper point  
fore-and-aft minimum 77mm maximum 88mm  
transverse minimum 62mm, maximum 70mm.***

***Spreader***

*aft side of mast to taut line on aft side of shrouds minimum 230mm maximum 260mm  
(The remaining dimensions in this section not listed here are not affected by this rule change.)*

**Proposed New Rule:**

*F.3.4*

***Mast spar cross section above the mast foot  
fore-and-aft, minimum 115mm maximum 134mm  
transverse minimum 74mm maximum 78mm.***

***Mast spar cross section at upper point  
fore-and-aft minimum 77mm maximum 106mm  
transverse minimum 62mm, maximum 78mm.***

***Spreader***

*aft side of mast to taut line on aft side of shrouds minimum 220mm maximum 260mm  
(The remaining dimensions in this section not listed here are unchanged.)*

**Reason:**

***Mast spar cross section above the mast foot*** - The Selden spar has a cross section at the foot fore/aft of 132mm with its external sail track design. We need to adjust the maximum fore/aft cross section dimension from 122mm to 132mm to allow this mast to fall within class rules at the foot.

***Mast spar cross section at upper point*** - At the upper point the Selden spar has a cross section at the foot fore/aft of 106mm with its external sail track design and transverse width of 78mm. We need to adjust the maximum fore/aft cross section dimension from 88mm to 106mm, and transverse from 70mm to 78mm to allow this mast to fall within class rules at the upper point.

***Spreader*** – Because this measurement is taken from the back edge of the spar/sail track and because the Selden spar has a larger fore/aft cross section, the class rules must be adjusted to allow the spreader seep to be maintained at the same angle as the current class mast.

These rule change proposals are tendered for the consideration of the Executive Committee. If these rule changes are ratified, it will constitute the approval of Selden Mast UK as a licensed builder in so far as the class is concerned.

Mike Gozzard  
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