

## Interpretation 2011- IOM-1

### INTERPRETATION ON THE INTERNATIONAL ONE METRE CLASS RULES

Interpretation requested by Graham Bantock, commercial builder, as follows:

In the IOM class:

1) is it permissible to build a rudder with one or more (approximately) horizontal foils on the (approximately) vertical blade?

2) is it permissible to build a rudder on a single shaft that has more than one blade, each inclined at a different angle to the central vertical plane?

#### **Relevant IOM Class Rules and discussion**

IOM **Class Rules** 2009 and IOM **Class Rules** 2011  
Equipment Rules of Sailing 2009-2012

This interpretation is in respect of two types of **rudder**.

Rudder described under Item 1) is a standard **rudder** blade with an additional horizontal foil fitted to the lower end of the **rudder** blade. This is referred to below as a 'T-foil **rudder**'

Rudder described under Item 2) is a **rudder** with two blades, one to port and one to starboard of the vertical centreline of the **hull** and fixed to a single shaft. This is referred to below as a 'Twin blade, single shaft **rudder**'

ERS E.1.1 defines a **hull appendage** as 'used to affect: stability, leeway, steerage, directional stability, motion damping, trim, displaced volume'.

ERS E.1.2(j) describes a **rudder** as being a movable **hull appendage** primarily used to affect steerage.

IOM **Class Rules** 2009 and 2011, class rule E.3.2, allows any form of 'construction' which does not further define whether this covers materials, shape or style. However IOM class rule E.3.2(b)(2) prohibits any articulation of the rudder and IOM class rule E.3.2(b)(3) prohibits any opening through which water may flow.

#### **Conclusions**

*Answer on question under item 1) - 'T-foil' **rudder***

Providing that the horizontal foil is fixed and incapable of any articulation such a **rudder** is not prohibited by either ERS or IOM class rules.

*Answer on question under item 2) - 'twin blade, single shaft **rudder**'*

The space between the blades is an opening through which water may flow. This type of **rudder** is, therefore, not permitted by IOM Class Rule E.3.2(b)(3)

Interpretation decided on 24 January 2011 by a Sub-Committee:

Val Provoost, Technical Committee Chairperson of the IRSA  
Remi Bres, Technical Committee member of the IRSA  
Robert Grubisa, IOM ICA VC Technical