

**Public Interpretation # 004.**

**Preamble.**

The following questions have been asked to ensure a consistent determination of the yacht's loading conditions with respect to the tankage, crew, moveable gear and sails used in demonstrating ISO 12215-5 compliance as required by Rule 5.1.3.

**Questions:**

- 1) Shall the calculations required under rule 5.1.3, demonstrating compliance with the ISO standard (Clause 7.8 "Light and stable sailing craft") be prepared using specified values for the weight and centre of gravity position of the gear carried on board the yacht that is not included in the **Weight of Boat (W)** (VOR 8.5). ?
- 2) If the answer to question 1 is yes what weights and positions should be assumed ?

**Answers**

Interp.	Question	Answer	Rule	Notes
PI 004	Q1	Yes	5.1.3	In presenting the calculations relating to rule 5.1.3 the designer shall specify the assumed weight and centre of gravity position of the additional gear, stores and crew added to the vessel that are not included in the Weight of the Boat.
	Q2	The designer shall specify the assumed weights and centres of gravity values, and these shall be included in calculations provided to the Chief Measurer demonstrating compliance with ISO12215-5:2008.		Any values assumed in the calculations that vary significantly from those in Table 1 below will be specifically considered.

Table 1  
Typical mid leg weight and centre of gravity positions

Item	weight (kg)	Longitudinal CG (m)	Transverse CG (m from Centreline)	Vertical CG (m above DWL)
Stack	1200	1.0 forward of aft WT Bulkhead	Local Half Beam -0.6	Local Freeboard/2
Sails (wet)	850	20m aft LLF	Local Half Beam -0.4	Local deck/cockpit height + 0.3
Crew (11 @75 kg)	825	18.0 aft of LLF	Local Half Beam -0.4	Local sheer height - 0.5
Crew effects (11 @ 15 kg)	165	18.0 aft of LLF	Local Half Beam -0.4	Local sheer height - 0.5
Fixed weights	1120	17.5 aft of LLF	0	0.2
Tankage	305	15.5 aft of LLF	0	0
Water Ballast	1600	Centroid of tank	Centroid of tank	Centroid of tank



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09/06/2010