3. PERFORMANCE COMPENSATION

3.1 Correction for Righting Movement

A combination of the helm's weight and righting moment will be used to calculate the setting of the rack width.

3.2 Measurement Beam and Scales

The righting moment of the helm will be measured using a Class Association approved measurement beam. The beam will be 2m long and will be used in conjunction with Class Association approved scales.

3.3 Measurement Method

3.3.1 Righting Moment

The "head end" of the beam is placed on the scales taking care that the bearing surface of the beam sits on the middle of the scales (which are reset to zero once the beam has been placed upon them) to ensure an accurate reading. Once this is done, the helm, wearing a minimum of shorts and a t-shirt, must lie flat, facing upwards, upon the beam with arms folded such that hands touch elbows. The heels of the feet must be touching the end of the plank and the legs must be as straight as possible. The reading from the scales is read by a third party and is then multiplied by 2 to give the righting moment.

3.3.2 Rounding Up or Down

The helm's calculated righting moment and weight will be rounded either up or down to the nearest whole number. This mean that if the first decimal point is above .0 and below .5 it will rounded down and if it is .5 and above it will be rounded up.

3.3.3 Helm Weight

The helm will be weighed using Class Association approved scales that have been reset to zero, the helm has his weight read off by a third party.

3.4 Determining Performance Compensation Settings

3.4.1 Calculating the Rack Setting

The maximum rack setting is read off from Table 2 applying the helm's weight to the vertical scale and the righting moment to the horizontal scale. Rack setting 1 is the innermost hole and each hole is counted outwards from there.

3.4.2 Maximum Rack Setting

A helm may sail a narrower boat utilizing a rack setting less than determined in 3.4.1. but must declare this when registering for an event. This setting must then remain the same for the entire event.

3.4.3 Rack Setting Widths

The rack settings shall correspond to the following rack widths (measured to the outermost point of the rack):

Rack Hole Setting	Rack Width (Meters)
1	1.980
2	2.090
3	2.190
4	2.300
5	2.400
6	2.505
7	2.610
8	2.710

3.4.4 Displaying the Rack Setting

The rack setting to be used in an event must be displayed on the rear of the hull or racks. It is the helm's responsibility to ensure that this information is clearly visible at all times throughout an event.

Appendix to Class Rules

RS700 Rack Position - 2022 Settings

Helm Righting Moment kg

= Weight recorded by scales at head end x Gauge Length

Helm Weight kg	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
70	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8	8	8	8	7	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	5	5	4	4	4	4	4	4	3	3	3	3
71	-	-	-	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	7	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	5	5	4	4	4	4	4	4	3	3	3	3	3
72	-	-	-	-	-	-	-	-	-	-	8	8	8	8	8	8	7	7	7	7	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5	4	4	4	4	4	4	3	3	3	3	3	3
73	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	7	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	3	3	3	3	3	3	2
74	-	-	-	-	-	-	-	8	8	8	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	2	2
75	-	-	-	-	-	8	8	8	8	8	8	8	7	7	7	7	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	2	2	2
76	-	-	-	-	8	8	8	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	2	2	2	2
77	-	-	8	8	8	8	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2
78	-	8	8	8	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2
79	8	8	8	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2
80	8	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	1
81	8	8	8	7	7	7	7	7	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1
82	8	7	7	7	7	7	7	7	7	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1
83	7	7	7	7	7	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1
84	7	7	7	7	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1
85	7	7	7	7	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1
86	7	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1
87	7	7	6	6	6	6	6	6	6	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1
88	6	6	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	-
89	6	6	6	6	6	6	6	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	-	-
90	6	6	6	6	6	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	-	-	-
91	6	6	6	6	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	-	-	-
92	6	6	6	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	-	-	-	-
93	6	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	-	-	-	-	-	-
94	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	-	-	-	-	-	-	-
95	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
96	5	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
97	5	5	5	5	5	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-
98	5	5	5	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-
99	5	5	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-
100	5	4	4	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-