

APPENDIX 1: PERFORMANCE EQUALISATION

1. CORRECTION FOR WEIGHT AND RIGHTING MOMENT

A combination of the helm and crew's weight and righting moment will be used to calculate the setting of the racks and the number of corrector weights that will be carried in the boat.

2. MEASUREMENT METHOD

2.1 Measurement Beam and Scales

The weight and righting moment of the helm and crew 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.

2.2 Clothing

Measurement is made in light shore clothing: a minimum of shorts and a vest or T-shirt, a maximum of 2 layers including underwear. Heavy items must be removed (shoes, coats, contents of pockets etc). The same clothing is worn for righting moment and weight measurements.

2.3 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 person 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.

The helm and crew's righting moments are added together to get the Combined Righting Moment (CRM).

2.4 Weight

The helm and crew will be individually weighed using the same Class Association approved scales used for righting moment, that have been reset to zero.

The helm and crew's weights are added together to get the Combined Crew Weight (CCW).

3. DETERMINING PERFORMANCE COMPENSATION SETTINGS

3.1 Calculating the Rack Setting

For the rack setting calculation, CRM and CCW are rounded either up or down to the nearest whole number. This means that if the first decimal place is above .0 and below .5 it will be rounded down and if it is .5 and above it will be rounded up.

The maximum rack setting is then read off from Table 1. For values of CCW or CRM off one end of the scale, use the value at that end of the scale.

Rack setting 1 is the innermost hole and each hole is counted outwards from there.

Table 1: RS800 rack settings

	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165		
CCW (kg)	131	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	8	8	8	8	8	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	4	4	4	4
CRM (kg.m)	132	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	8	8	8	8	8	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4
133	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	8	8	8	8	8	7	7	7	7	7	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	
134	10	10	10	10	10	10	10	10	10	10	10	9	9	9	8	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	
135	10	10	10	10	10	10	10	10	9	9	9	9	8	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	
136	10	10	10	10	10	10	10	9	9	9	9	8	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	
137	10	10	10	10	10	10	9	9	9	9	8	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	
138	10	10	10	10	9	9	9	9	9	8	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
139	10	10	10	9	9	9	9	8	8	8	8	8	7	7	7	7	7	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
140	10	10	9	9	9	9	8	8	8	8	8	7	7	7	7	6	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
141	10	9	9	9	9	8	8	8	8	8	8	7	7	7	7	6	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
142	9	9	9	8	8	8	8	8	8	8	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
143	9	9	8	8	8	8	8	8	8	7	7	7	7	7	6	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
144	9	8	8	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
145	8	8	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
146	8	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
147	8	8	8	8	7	7	7	7	7	6	6	6	6	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
148	8	7	7	7	7	7	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
149	8	7	7	7	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
150	7	7	7	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
151	7	7	6	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
152	7	6	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
153	7	6	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
154	6	6	6	6	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
155	6	6	6	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
156	6	6	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
157	6	6	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
158	6	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
159	6	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
160	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
161	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	

3.2 Corrector Weights

Table 2 determines the number of corrector weights to be carried in the boat, based on CCW without rounding up or down.

One intermediary rack bar per side, as supplied by the Licenced Builder, may be used. The intermediary bar will be positioned in board of the outer rack beam and outboard of the side deck. The intermediary bar will be located securely and its position cannot be altered whilst racing. When used, the two intermediary bars (one on each side) will be deemed to be equivalent to one corrector weight for equalisation purposes.

Table 2: RS800 corrector weights

Combined Crew Weight	Number of corrector weights
151 kg or more	None
148 to less than 151 kg	1 corrector
145 to less than 148 kg	2 correctors
142 to less than 145 kg	3 correctors
139 to less than 142 kg	4 correctors
Less than 139 kg	5 correctors

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