



National Scorpion Class Measurement Form (2022 Class Rules)

This form must not be completed without reference to the current Class Rules. If in any doubt, uncertainty or discrepancy exists the Official Measurer **SHALL** refer to the RYA.

Please complete this form in BLOCK CAPITALS. All light blue fields must be completed.

BUILDER'S DECLARATION

Builder's Name

Builder's Address

Postcode

I certify that a building fee has been paid and the following sail number issued

GBR

Shell Material

Date Built

Deck Material

I have built the hull in accordance with the class rules in force on the following date

Signed

Date

OFFICIAL MEASURER'S DECLARATION

Measurer's Name

Measurer's Address

Postcode

Bare Hull (inc correctors)

Number of Correctors

Total Corrector Weight

I declare that I have measured this hull in accordance with the class rules in force on the following date

Date

All measurements are within tolerances except where highlighted in the Official Measurer's comments

Signed

Date

OWNER'S DETAILS

Owner's Name

Owner's Address

Postcode

Owner's Club

Name of boat

I enclose a registration fee of

£

(£30.00 for non RYA members / £15.00 for RYA Members / No fee payable by RYA Gold members)

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Enter dimensions, number of, YES / NO or N/A (not applicable) in the RED cells.

No.	Rule	Description	Minimum	Actual	Maximum	Comment
BOAT						
1	C.6.3	Hull weight (dry)	81 kg			
2	C.6.4	No. of corrector weights?			7 kg	
3	C.6.4	Corrector weight(s) located under the thwart?				
APPENDAGES						
Centreboard						
4	C.7.3 (b)	Fully raised centreboard does not project below the false keel?				
MAST						
5	C.8.3 (a)	Aft face of transom to fore side of the mast	2794 mm		2870 mm	
6	C.8.3 (a)	Line joining intersection of shrouds extended if necessary, and sheer level, abaft fore side of mast	330 mm			
7	C.8.3 (b)	Mast step heel movement limited to			5 mm	
BOOM						
8	C.8.4 (a)	Limit mark width	10 mm			
9	C.8.4 (a)	Outer point distance			2498 mm	
STANDING RIGGING						
10	C.9.6 (a)	Forestay - stem lashing length (if used)	150 mm			
HULL IDENTIFICATION						
11	D.2.5 (a)	Sail number cut into hog, transom or thwart?	25 mm			
12	D.2.5 (b)	Sail number plaque displayed on GRP transom?				
HULL SHELL - CONSTRUCTION OF WOODEN HULLS						
13	D.3.1	Bottom skin	8 mm			
14	D.3.1	Bottom skin, adequately reinforced in cockpit area	6 mm			
15	D.3.1	Side skin	5 mm			
16	D.3.1	Transom (plywood)	8 mm			
17	D.3.1	Transom (hardwood)	18 mm			
18	D.3.1	Knees (hardwood)	22 mm			
19	D.3.1	False keel (hardwood) depth, except at the bow where the depth may taper to zero	16 mm		9 mm	
20	D.3.1	Centreboard case sides, 6 mm or 8 mm plywood	6 mm		8 mm	
21	D.3.1	Side tank vertical panels (plywood)	5 mm			
22	D.3.1	Breakwater (solid or laminated hardwood)	18 mm			
DECKS - CONSTRUCTION OF DECKS						
23	D.4.1	Fore and after decks	5 mm			
24	D.4.1	Side decks, with suitable support beams	5 mm			
25	D.4.1	Fore deck king beam: 38 mm depth by 25 mm width				
26	D.4.1	Fore deck beam: 87 mm depth by 12 mm width at centre				
BUOYANCY TANKS						
27	D.5.1 (b)	In GRP boats a minimum of 0.15 m ³ of rigid foam buoyancy shall be securely fixed inside each buoyancy tank, not less than 0.05 m ³ in each tank				
GUNWALES						
28	D.6.2	Vertical depth at the junction with skin of the hull	22 mm			
BULKHEADS						
29	D.7.1	Minimum bulkhead thickness	5 mm			
THWARTS						

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No.	Rule	Description	Minimum	Actual	Maximum	Comment
30	D.8.1	Wooden (hardwood) thwarts	18 mm			
	ASSEMBLED HULL					
31	D.10.2 (c) (1)	Spinnaker catcher length			230 mm	
32	D.10.2 (c) (1)	Spinnaker catcher mass			56 g	
	ASSEMBLED HULL DIMENSIONS: TABLE 1					
33	D.10.3	Hull length	4266 mm		4300 mm	
34	D.10.3	Hull shell/deck bonding flange (at transom)			20 mm	
35	D.10.3	Hull shell/deck bonding flange (at bow)			30 mm	
36	D.10.3	Distance from base line to underside of flase keel at section 1	203 mm		203 mm	
37	D.10.3	Distance from base line to underside of flase keel at section 2	111 mm		127 mm	
38	D.10.3	Distance from base line to underside of flase keel at section 3	50 mm		64 mm	
39	D.10.3	Distance from base line to underside of flase keel at section 4	105 mm		121 mm	
40	D.10.3	Distance from base line to intersection between the foredeck and the stem band	696 mm		708 mm	
41	D.10.3	Rake of stem (corrected by the difference between length overall and 4280 mm)	4095 mm		4129 mm	
42	D.10.3	Width of the skin of the hull 65 mm aft and 350 mm from the stem head, measured along the stem	65 mm		85 mm	
43	D.10.3	Distance from the stemhead of the intersection of the line of the chine when extended and the line of the stem	270 mm		400 mm	
44	D.10.3	Between the transom and the forward face of the forward bulkhead, no part of the outer surface of the topsides and the bottom panels to within 25 mm of the underside of the rubbing beads and the false keel, shall be more than 4 mm from a straight edge placed athwartships across the full width of the panel				
45	D.10.3	Distance between chine and centreline measured along the hull shell at section 1	391 mm		403 mm	
46	D.10.3	Distance between chine and centreline measured along the hull shell at section 2	521 mm		533 mm	
47	D.10.3	Distance between chine and centreline measured along the hull shell at section 3	565 mm		577 mm	
48	D.10.3	Distance between chine and centreline measured along the hull shell at section 4	344 mm		362 mm	
49	D.10.3	Chine height (height of chine above junction of hull shell and false keel) at section 1	50 mm		64 mm	
50	D.10.3	Chine height (height of chine above junction of hull shell and false keel) at section 2	85 mm		99 mm	
51	D.10.3	Chine height (height of chine above junction of hull shell and false keel) at section 3	115 mm		129 mm	
52	D.10.3	Chine height (height of chine above junction of hull shell and false keel) at section 4	108 mm		130 mm	
53	D.10.3	Width of the side (directly across hull shell from sheerline to chine) at section 1	219 mm		246 mm	
54	D.10.3	Width of the side (directly across hull shell from sheerline to chine) at section 2	276 mm		305 mm	

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No.	Rule	Description	Minimum	Actual	Maximum	Comment
55	D.10.3	Width of the side (directly across hull shell from sheerline to chine) at section 3	346 mm		373 mm	
56	D.10.3	Width of the side (directly across hull shell from sheerline to chine) at section 4	378 mm		405 mm	
57	D.10.3	Depth of false keel between section 1 and section 4	9 mm		17 mm	
58	D.10.3	Depth of false keel forward of section 4 and the lowest point of stem on hull shell	0 mm		17 mm	
ASSEMBLED HULL DIMENSIONS: TABLE 2						
59	D.10.3	Distance from fore end of centreboard slot to section 1 along false keel	2406 mm		2432 mm	
60	D.10.3	Length of centreboard slot along false keel	1181 mm		1207 mm	
61	D.10.3	Internal height of centreboard case including false keel			343 mm	
62	D.10.3	Internal height of centreboard case at forward end of slot including the false keel	279 mm		305 mm	
63	D.10.3	Internal height of centreboard case 38 mm forward of aft end of slot including the false keel			178 mm	
64	D.10.3	Internal width of centreboard case (not keel slot)	25 mm		29 mm	
ASSEMBLED HULL DIMENSIONS: TABLE 3						
65	D.10.3	Beam of hull measured between sheerlines at section 1	876 mm		902 mm	
66	D.10.3	Beam of hull measured between sheerlines at section 2	1181 mm		1207 mm	
67	D.10.3	Beam of hull measured between sheerlines at section 3	1359 mm		1390 mm	
68	D.10.3	Beam of hull measured between sheerlines at section 4	944 mm		970 mm	
69	D.10.3	Width of rubbing bead measured in plan from the sheerline. Except for the first 152 mm from the stem to allow for fairing off	28 mm		54 mm	
70	D.10.3	Plan width of cockpit floor from centreline at fore bulkhead	305 mm		355 mm	
71	D.10.3	Plan width of cockpit floor from centreline at section 3	356 mm		406 mm	
72	D.10.3	Plan width of cockpit floor from centreline at aft bulkhead (or 737 mm from section 1 if no after bulkhead fitted)	255 mm		305 mm	
73	D.10.3	Plan width of cockpit floor from centreline at transom forward face if no aft bulkhead fitted	153 mm		203 mm	
74	D.10.3	Camber of foredeck measured 1346 from stem along the centreline to the outside of the rubbing bead	146 mm		178 mm	
75	D.10.3	Distance from section 1 to the aft face of fore bulkhead	2743 mm		2793 mm	
76	D.10.3	Distance from section 1 to the fore face of after bulkhead (if fitted)			737 mm	
77	D.10.3	Distance from section 1 to the aft edge of breakwater at gunwale			2590 mm	
78	D.10.3	Distance of mast step bearing face above foredeck at the forward bulkhead			76 mm	

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No.	Rule	Description	Minimum	Actual	Maximum	Comment
79	D.10.3	Distance of upper surface of bow buoyancy tank below sheer in any cross section			192 mm	
80	D.10.3	Vertical height of transom, measured from the bottom of the false keel	160 mm		324 mm	
81	D.10.3	Side decks extension in plan inboard from outer edge of skin at deck level	178 mm			
82	D.10.3	Drop of side deck 229 mm inboard from outer edge of rubbing bead below sheerline			51 mm	
83	D.10.3	Distance of mast step bearing face above deck			76 mm	
84	D.10.3	Distance of mast step bearing face above sheerline at the forward bulkhead	150 mm			
85	D.10.3	Distance of the foreside of the breakwater above the foredeck at the mast step. (It may taper in a fair continuous curve towards the gunwale)	25 mm			
86	D.10.3	Area of spinnaker chute opening in the foredeck			0.04 m ²	
87	D.10.3	Width of thwart	120 mm		132 mm	
88	D.10.3	Thickness of thwart	16 mm		22 mm	
89	D.10.3	Total area of holes through the thwart			0.005 m ²	
CENTREBOARD						
90	E.3.6	Centreboard thickness at the root	22 mm			
91	E.3.6	Width of centeboard			369 mm	
RIG, MAST DIMENSIONS						
92	F.3.4	Mast length	5942 mm		6096 mm	
93	F.3.4	Mast spar curvature			40 mm	
94	F.3.4	Mast limit mark width	10 mm			
95	F.3.4	Distance between Lower Point and Heel Point	446 mm		610 mm	
96	F.3.4	Upper point height			5486 mm	
97	F.3.4	Forestay height			4038 mm	
98	F.3.4	Spinnaker hoist height			4038 mm	
99	F.3.4	Spinnaker halyard fitting projection			100 mm	
100	F.3.4	Spinnaker pole fitting projection			40 mm	
101	F.3.5	Mass weight	7.5 kg			
BOOM						
102	F.4.4	Outer point distance			2498 mm	
103	F.4.4	Outer limit mark width	10 mm			
104	F.4.4	Boom spar curvature			20 mm	
105	F.4.4	Boom spar section shall pass through a circle of diameter			120 mm	
SPINNAKER POLE						
106	F.5.5	Spinnaker pole length			1905 mm	
STANDING RIGGING						
107	F.6.4	Forestay diameter	2.35 mm			
108	F.6.4	Shroud diameter	2.35 mm			