OPTIMIST FOILS MEASUREMENT

This document is intended for use by measurers officially recognised by a National Authority (CR 2.5.1) for foils produced in accordance with the 2024 Class Rules of the International Optimist Dinghy Association (IODA) These Rules are online at www.optiworld org

The document is intended as a record for the measurers. A copy of this sheet is also be given to the sailor.The FINAL foil measurement FORM printed on white paper must be signed and stamped and a copy given to the sailor

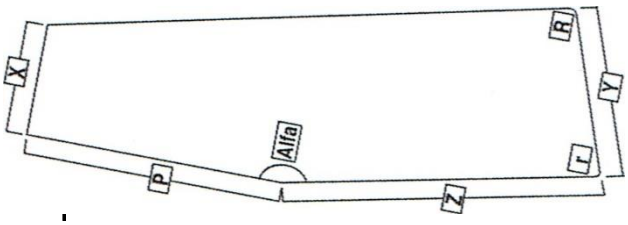
RUDDER

Manufacturer **Serial Number**	see CR 3.4.1.5
Mould Identification Number	see CR 3.4.1.5
Year of Manufacture	see CR 3.4.1.5
Class Rule 3.4.1.5 Characters 10 mm +/-2 mm high on **Starboard and Port sides** must have the **Manufacturer's name, serial number, year of manufacture and the mould ID number** 25 mm +5 /-0 mm below the bottom edge of the tiller. **Rudders manufactured after 01.01.2025 must carry an IODA equpment label placed beside the identification number on the starboard side as per class rule 3.4.1.6**	All correct

Item	Specification	CR	Min	Actual	Max
1	Rudder head top width (X): 175mm +0 /-2 Corner radii 4mm +/- 1	3.4.2.1	173		175
2	Rudder blade width (Y): 260mm +0 /-3	3.4.2.1	257		260
3	Rudder blade length (Z): 400mm +0 /-2	3.4.2.1	398		400
4	Rudder head length (P): 337mm +0 /-2	3.4.2.1	335		337
5	Rudder blade angle (ALFA): 165° +1 /-1	3.4.2.1	164		166
6	Rudder blade forward corner angle: 90° +1 /-1 (r)	3.4.2.1	89		91
7	Rudder blade aft corner angle: 90° +1 -1 (R)	3.4.2.1	89		91
8	Rudder blade forward corner radius: 40mm +5 /-5	3.4.2.1	35		45
9	Rudder blade aft corner radius: 90mm +5 /-5	3.4.2.1	85		95
10	Beveling from any edge except top of rudder head	3.4.2.2			60
11	Thickness (excluding bevels) not less than 14 mm, Max 15mm	3.4.2.2	14		15
12	Is the tiller removable and fixed by 2 metal bolts of Smm +/- 1.5 diameter?	3.4.2.3		Yes / No	
13	Length of tiller	3.4.2.4			750
14	Length of tiller extension	3.4.2.4			750
15	Length of tiller and tiller extension assembly	3.4.2.4			1200
16	Tiller and tiller extension made of aluminium	3.4.1.2		Yes / No	
17	Diameter of pintles	3.4.5.1			6
18	Distance between bearing line of upper pintle and top of tiller along the rudder head front line P	3.4.5.1	85		
19	Distance between bearing line of upper pintle and bearing line lower pintle	3.4.5.1	200		
20	Retaining clip at forward edge of rudder head below upper bearing line	3.4.5.2	5		
21	Assembled rudder + tiller + tiller extension + fittings weight	3.4.3	1.5 Kg		
22	Assembled rudder + tiller + tiller extension + fittings float?	3.4.3		Yes / No	
23	Non Metallic bushes around fixings	3.4.1.3			20

Class rule 3.5.4.1 also states the depth of the pivoting holes in the gudgeons shall not exceed 5mm and the distance from the aft face of the transom shall not differ by more than 2mm. The hull is required to check this. If OK tick here.....

If not OK X here ... . Not checked X.....

Rudder Shape	
	X: 175 mm +0 /-2 mm Y: 260 mm +0 /-3 mm Z: 400 mm +0 /-2 mm P: 337 mm +0 /-2 mm Alfa: 165 degrees +/-1 degree r: Angle 90 degrees +/-1 mm, radius 40 (+/-5) R: Angle 90 degrees +/-1 mm, radius 90 (+/-5) The corners at each end of X shall be rounded to a radius of 4 mm +/-1 mm Between radius limits all sides shall be straight edges +/- 2mm

DAGGER BOARD

Manufacturer:	**Serial**	See CR 3.3.1.4 2024
Mould Identification Number:		See CR 3.3.1.4 2024
Year of Manufacture:		See CR 3.3.1.4 2024
CR 3.3.1.4 Characters 10mm +/-2mm on Starboard side and 25mm +5 / -0 from bottom edge of stop batten the manufacturers name ,the serial number, mould ID number, year of mnufactureand and from Jan 1st 2023 20mm +/-2 mm from the rear edge. The area between the stop battens and 100mm +5 /-0mm below them and 110mm +5 /-0 mm from the rear edge at both, starboard and port sides shall contain laminated the manufacturer,and daggerboard model names and / or logos. **Daggerboards manufactured after 01.01.2025 must have an IODA Equipment label on the starboard side as per CR 3.3.1.5 and 3.3.1.4**		All correct

Item	Specification	CR	Min	Actual	Max
1	Length	3.3.2.3	1062		1072
2	Width	3.3.2.3	280		290
3	The width and length shall not vary more than 3.0mm	3.3.2.3			3
4	Position of Centre of Gravity from lower edge	3.3.3	520		
5	Thickness	3.3.2.2	14		15
6	Bevelling of edges limit	3.3.2.2			60
7	Radius of lower corners 32 Upper corners radius 5	3.3.2.1			32 / 5
8	Depth of stop battens	3.3.2.4	30		40
9	Exposed edges of battens radiused no sharp projections	3.3.2.4	3		5
10	Battens shall extend over the full width of the board, no cut-outs. level top	3.3.2.4		Yes/ No	
11	Radius of two upper corners of dagger board	3.3.2.1			5
12	Thickness of assembled daggerboard and stop battens	3.3.2.4	40		50
13	One hole through daggerboard and batten (optional). Max. dia	3.3.4			10
14	Fixing of battens with glue and 2 (5mm+/-1.5) metal bolts and nuts	3.3.2.4		Yes/ No	
15	Length of fasteners shall be the same (+0/-5mm) as the thickness of assembled daggerboard and battens	3.3.2.4		Yes/ No	
16	Ballasting or cut outs of the battens are prohibited	3.3.3		OK	
17	Weight	3.3.3	2.0 Kg		
18	Does the daggerboard float?	3.3.4		Yes / No	