



# INTERNATIONAL FIVE POINT FIVE METRE CLASS

2016

## CERTIFICATE OF RATING



Yacht's Name:	ADDAM	Original name:	ADDAM
Sail Number:	NOR-67	Original Sail Number:	L-35
Designer:	Eivind Still	Club:	RSF, Risør Seilforening
Builder:	Still Yachts, Pietarsaari, Finland	Building date:	1989
Owner:	Halfrid Waage & Anne-Helene Elvestad		
Owner's addr.:	Risør, Norway		
Veritas R class certificate or Building Form (Number or Date)		Lloyd's Register of Shipping	
ISAF plaque number			-

### RATING CERTIFICATE

This yacht has been measured by measurer approved by this Authority and has been found to rate not more than 5.5 metres (classic boat 5.52 m).

This certificate is dated	19.8.2016	Signature	<i>Matti Muoniovaara</i>
and its validity confirmed by measurer	Matti Muoniovaara, 5.5m class IM		
for (name of National Authority)	Norwegian Sailing Federation		
Valid until	19.8.2021	Sign. of designer or builder	
Supersedes (former certif. date)	30.5.2001	Sign. of owner or repres.	
New expiration date			
Signature	<i>Matti Muoniovaara</i>		
Name	Matti Muoniovaara, 5.5m class IM World Sailing	Stamp of Authority	

Rule 33	DEFINITION OF BOAT : CLASSIC (built 1950-1969), EVOLUTION (built 1970-1993) AND MODERN
Date of first certif. issued	1989
Sub-class	EVOLUTION


Sailplan	Items 61, 62 & 63
Weight	10kg overweight allowed, AGM decision 1993 Hanko
Valid	5 years, AGM decision 2016 Skovshoved

Item No	Rule No	Measurement	Min	Actual	Max
<b>HULL</b>					
1	23	Immersion checked in salt- or fresh water ..... date		salt	
		Difference of immersion with salt water		6mm	
2	13	Weight of inside ballast placed at		0kg	
	13	Weight of laminated inside ballast		0kg	
3	5	Beam	1.90m	1.910	
4	2	Max draft		1.350	1.350m
5	4	Freeboard at bow girth station		0.735	
6	4	Freeboard at midship mark	0.560m	0.590	
7	4	Freeboard at stern girth station		0.560	
8	4	Freeboard average (item 5+6+7)	0.628m	0.628	
9	14(iii)	Keel and ballast material (lead or iron)		lead	
10	14(iv)	Keel height of round at bottom		-	
11	14(iv)	Maximum section width down to 1m below LWL		150mm	
12	15.7	Weight of keel, ballast and rudder		-	1460kg
12	8	Stern angle	1 in 5.5	1 in 5	
14	9	Round of beams (Max 7mm in 305 mm)		ok	7mm
15	10	Tumblehome		0.000	
16		Deduct 2% of maximum beam		0.038	
17	10	Excess tumblehome (item 14-15)		-0.038	
18	11	Area of deck openings		2.200	2.25m <sup>2</sup>
19	12	Cockpit forward of L1 mark (valid till 1960)	1.75m	2.430	
20	11	Breadth of side decks	350mm	380mm	
<b>MISCELLANEOUS</b>					
21	29	Weight of anchor	11kg	12.0kg	13kg
22	29	Length of warp	30.5 m	30.0	
23	23	I marks and L marks above water with yacht in measurement trim		ok	5mm
24	23	Top of I marks above water with yacht in racing trim		ok	50mm



Item No	Rule No	Measurement	Min	Actual	Max
<b>SAILS AND RIGGING</b>					
25	16	Height of sail plan above covering board level		11.100	11.100m
26	18	Height of boom (black band) above covering board level	0.500m	0.760	0.800m
27	17	Height of foretriangle above covering board level (I)		8.880	8.880m
28	16	Base of foretriangle (J) (Deck black band to be checked) $0.5 \times J^2 \times VS$		2.693	2.693m
29	16	Min.headsail for measurement purpose		9.564	
30	19	Spinnaker halyard above forestay		100mm	100mm
31	19	Spinnaker halyard out from mast		30mm	30mm
32	19	Spinnaker breadth of half foot (Max = $1.25 \times J$ )		3.366	$1.25 \times J$
33	19	Spinnaker boom length & storm spinnaker breadth of half foot		2.693	J
34	19	Spinnaker boom material		aluminium	
35		Spinnaker 1/2 girth (min 75% foot)		2.524	
36		Mast material aluminium boom material aluminium		aluminium	
37	21	Mast diameter at 1/2 height of foretriangle	115mm	ok	
38	21	Mast diameter at deck	109mm	ok	
39	21	Mast diameter at jib halyard	92mm	Rule delete	
40	21	Mast diameter at top	58mm	Rule delete	
41	21	Forward-Aft mast profile measurement	125mm	141mm	
42	21	Athwartships mast profile measurement	75mm	105mm	
43	21	Constant section from heel to min 6m		ok	
44	21	Permanent set not exceeding 50mm between marks		ok	
45	21	Tip weight of mast (old min 40 kg)	16kg	19kg	
46	22	Boom depth		15.0cm	15.2cm
47	22	Boom width	3.8cm	4.0cm	

<b>LENGTH FOR RATING</b>					
48	3	Overall length LOA		9.173	
49	3	Overhang Forward to $L_1$		0.993	
50	3	Overhang Aft to $L_1$		0.818	
51	3	Total Overhang (Subtract)		1.811	
52	3	MEASURED LENGTH ( $L_1$ $L_2$ )		7.362	
53	3	Girth at Bow		0.720	
54	3	Twice vertical Height at Bow (Subtract)		0.550	
55	3	O at Bow	0.165m	0.170	
56	3	Girth at Stern		1.625	
57	3	Twice vertical Height at Stern (Subtract)		0.955	
58	3	O at Stern		0.670	
59	3	Add 1/3 O at Stern	0.234m	0.223	
60	3	Correct length	29.000	7.766	
<b>SAIL AREA FOR RATING</b>					
61	17	Largest headsail = $0.5 \times$ luff	8.411	x	perpendicular 2.395
62	18	Mainsail = $0.5 \times$ height (H)	10.340	x	boom length (B) 3.661
63		1/4 main sail girth 36% of B	1.318		1/2 main sail girth 62% B 2.270
64	2	Total sail area S ( $53+54$ )		26.5m <sup>2</sup>	29.000 29.0m <sup>2</sup>
65	2	Square root of S		5.385	
<b>DISPLACEMENT</b>					
66	13	Weight of yacht [kg] Actual weight	1957kg	22.5.2015	1743kg 1947kg 2050kg
67	13	Displacement $D = \text{weight} / 1025$			1.7m <sup>3</sup> 1.900 2.0m <sup>3</sup>
68	13	Cubic root of D			1.238
<b>RATING</b>					
69	2	Rating calculated according to formula		5.492	
70	10	3x tumblehome excess (add to item 69 for final rating)		0.000	
71	2	<b>FINAL RATING</b>		5.492	5.500

Yacht's Name	ADDAM	ex ADDAM	International 5.5 metre class
Sail Number	NOR-67	ex L-35	
This certificate is dated	19.8.2016		
Signature			Stamp of Authority