

1979

INTERNATIONAL FIVE POINT FIVE METRE CLASS

CERTIFICATE OF RATING

Copy made by Matti Muoniovaara measurer FIN-0039

Yacht's name	FOOTLOOSE	Classification society	Lloyd's
Sail number	N-44	Expiration date of classification certificate	December 1987
Owner	John Platou	Measurements or partial remeasurements	
Owner's club:	KNS	by N.A. Measurer, signature & date	
Designer	Warren Muir	<i>Denis O. Heywood</i>	24th december 1985
Builder			
Date completed	24th December 1985		
Condition of water when marks were sighted			
State fresh or salt	SALT		
Differenece in immersion (class rule5)			metres
Has designer's or builder's declaration been supplied			
I declare that the particulars given on this certificate are correct at this date		Expiration date of rating certificate	
Signature of measurer	<i>Denis O. Heywood</i>	December 1987	
Signature of designer or builder	<i>W. Muir</i>		
Signature of owner or representative	<i>W. Muir</i>	Re-rated	

Certificate authorised by _____ Date _____ for _____
(National Authority)

Effective 1 Jan 1979

Previous issue 1 Jan 1967

	Actual	Rule limits	Rule No.
HULL			
Immersion checked in salt / fresh water	date 23.12.1985		5;27
Weight of inside ballast placed at	NIL		6;33
Beam	1.905	min. 1.90m	7;9
Draft	1.345	max. 1.35m	7
Freeboard at bow girth station	1.081		
Freeboard at stern girth station	0.529		
Freeboard at midship mark	0.630		
Freeboard average (Item 5+6+7)/3)	2.240	0.747	min 0.63m
Keel, ballast materials		LEAD	lead or iron
Keel height of round at bottom		5mm	max. 75mm
Keel width at max. section 1m below L.W.L.		166mm	min. 150mm
Stern angle		1 IN 5.5	min. 1 in 5.5
Round of beams		0mm	max. 7mm in 305mm
Tumblehome	NIL		
2% of max. beam	-		
Excess tumblehome (Item 14-15)	substract	-	3 x excess added to rating
Area of deck openings		2.245	max. 2.25m ²
Cockpit forward of LI mark		2.074	min. 1.75
Breadth of side decks		45.0cm	min.35cm
SAILS AND RIGGING			
Height of sailplan above covering board level		11.099	max. 11.10m
Height of boom (black band) above covering board level		0.850	min. 0.5m, max. 0.85m
Height of fore triangle above covering board level (I)		8.880	max. 8.88m
Base of fore triangle (J) (Deck black band to be checked)		2.657	$0.5x^2 \sqrt{S}$
Min. Headsail for measurement purposes = $0.5 \times I \times J \times 80\%$		9.439	
Spinnaker, halliard above forestay		9.8cm	max. 10cm
Spinnaker, halliard out from mast		3.2cm	max. 3cm
Spinnaker, breadth of half the foot		3.322	max. 1.25 x J
Storm spinnaker, breadth of half the foot		2.657	max. J
Spinnaker boom length		2.657	max. J
Mast diameter at 1/2 ht. of fore triangle, round mast		142x103	min. 11.5cm
Mast diameter at deck, round mast		142x103	min. 10.9cm
Mast diameter at jib halliards, round mast		130x99	min. 9.2cm
Mast diameter at top, round mast		75x60	min. 5.8cm
(The athwartships diameter of oval masts may be reduced by 10% of the above, but the sectional areas shall not be less)			
Weight of mast with fixed fittings TIP		17.2kg	min. 16 kgs
Centre of gravity of mast above covering board level		-	min. 38% of mast ht.
Boor Boom depth		10.4cm	max. 15.2cm
Boor Boom width		7.4cm	min. 3.8 cm
MISCELLANEOUS			
Weight of anchor		11kgs	max.13kgs min. 11kgs
Length of warp		30m	min. 30m
Top of I marks above water with yacht in racing trim		-	5

	Actual measures		Rule limits
LENGTH L FOR RATING			
Overall length L.O.A		9.410	
Bow Overhang L ₁	0.908		
Stern overhang L ₁	1.214		
Total Overhang		2.122	
Measured length L ₁		7.288	
Girth at bow	0.696		
Twice vertical height at bow (= 0.55m)	0.550		
	subtract		
Bow girth difference	0.146	0.165	min. 0.165m (rule 13)
Girth at stern	1.646		
Twice vertical height at stern	0.893		
	subtract		
Stern girth difference	0.753		
	div. by 3		
1/3 stern girth difference		0.251	min. 0.234m (rule 13)
		add	
Length L for rating formula (Item 44+47+51)		7.704	

SAIL AREA FOR RATING			
Largest headsail=0.5x	- (luff)x	- (perp)	9.440
Mainsail =0.5x	10.249 (H) x	3.670 (B)	18.806
			add
Total sail area S			28.246
$\sqrt[2]{S}$			5.315
			min. 26.5m ² (rule 7) max. 29.0m ²

DISPLACEMENT			
Weight of yacht (date when weighed	23-12-1985)		1748kg
Displacement D=weight/1025.21 kg/m ³			1.705
$\sqrt[3]{D}$			1.195
			min. 1.7m ³ max. 2.0m ³ (rule 7)

RATING			
Rating calculated according to formula		5.500	
3 x tumble home excess		0.000	
FINAL RATING		add	5.500
			(rule 14)

