

Seefahrtkreuzer Class Rules

(National German Boxrule Classes from 1928 - 1949)

1. Building rules

All Seefahrtkreuzer have to comply with the relevant Germanischer Lloyds class rules for the scantlings of wooden yachts, and be certified to prove this.

All Seefahrtkreuzer shall be keel yachts.

Spade rudders, dagger boards and other such appendages are forbidden.

2. Measurements

Max Length over all (LOA) is 1.5 of the measured length water line (L).

Bow overhang shall not greater than .25 of L

Stern overhang shall not be greater than 0.35 of L

Beam at waterline shall be taken at .55 LWL from the forward perpendicular shall not be smaller than 0.9 B

The draft at the trailing edge of the keel may be no more than 5% greater than the draft at 0.55 L

The lowest point of the sheerline for all yachts must be at least 1.25% of the LOA lower than at the stern.

Cabin sole length and breadth are to measured to the inside of the planking. The actual sole may be at any level. (refer to table for length and breadth measurements). Measurement sole height is to be marked by roundhead screws.

3. Exceeding the limits

The table limits are to be taken as a minimum value to cater for the cruising sailor.

The LWL can be increased as long as BWL, freeboard and displacement increase according to the following constraints;

Beam $> 0.15(L_x - L_i)$

Freeboard $> 0.04(L_x - L_i)$

Displacement $> V_i (L_x / L_i)^3$

Where;

Table value of Volume = V_i

Table value of LWL = L_i

New LWL = L_x

4. Displacement and Draft

The displacement can be ascertained by weighing or calculation. It must be stated in tonnes.

The Seefahrtkreuzer shall be in principal measured in seawater. If measured in fresh water, the measured waterline shall be taken as the calculated waterline in salt water with a density of 1.0182 tonnes per cubic meter.

5. Sails

a) The rated sail area (S_i) may not be exceeded. The measured sail area is calculated by the following;

$$S_v = S_i(1.164 - (0.21G/S_i))$$

S_i = table value SA

G = Mainsail Area

S_v = measured sail area

b) The measured sail area is the sum of all sails behind the mast and 0.85 of the foretriangle area.

Sails are measured according to the international rule.

The mainsail is the biggest of all measured sails, where the fore triangle is measured as a sail (at 100%).

Where you have a topsail, or a staysail under or over the mainsail, 'G' is the sum of those sails and the mainsail area.

c) The rig and division of the sail area is otherwise free.

The rig height is the vertical distance between the top of sheer and the highest point of sail measurement.

d) The calculation of the sail area, shall be that the areas of the individual triangles in to which the sails are divided, are calculated uses all three edges.

e) The number of battens in a sail shall not be greater than;

30-80sqm, 4. 100-250sqm, 5.

The length of the battens shall not exceed the following dimensions;

Highest and lowest batten; $0.12G^{1/2}$, Other battens; $0.17G^{1/2}$. Where 'G' is the area of the sail containing the battens.

The battens should be equally spaced down the leech.

6. Mast and Rigging.

Pre-bent masts are forbidden. The shrouds on each side shall have a combined breaking load of 150% of the displacement. The strength of the shroud fittings shall have at least the same breaking load as the shroud itself.

7. Grandfathering.

Yachts built before 1/1/1929 and approximately comply to the rule, may be allowed to race as members of the relevant Seefahrtkreuzer class. (the German original then goes on with the details involved in this, we did not yet translated it as it has little relevance to the boats built for the rule, if anyone wants this however we will have a go at it)

Table of Measures for the 50sqm Seefahrtkreuzer Class. (For smaller or bigger yachts – see German rules on website.

Item	Abbr.	Type	Measurement
I. Main dimensions			
Sail area	S_i	Maximum	50 m ²
Rig height	H_i	Maximum	13.5 m
Length Water Line	L	Maximum	8.2 m
BOA at .55L	B	Minimum	2.6 m
Draft .55L	T	Maximum	1.6 m
Freeboard .55L	F	Minimum	0.65 m
Bulwark Height Forward of .55L		Minimum	0.08 m
Displacement	V_i	Minimum	6 t
Inside width of coachroof (at max with)	b_a	Minimum	1.54 m
Inside length of coachroof	l_a	Minimum	3.1 m
Length of cabin sole	l_f	Minimum	1.85 m
Breadth of cabin sole	b_f	Minimum	0.65 m
Height from sole to upper edge of top strake (increases if freeboard is increased)	h_1	Minimum	1.3 m
Height from sole to underside of coachroof over the sole area	h_2	Minimum	1.8 m
Bulkhead Thickness (?)		Minimum	0.022 m
II . Comfort			
The cabin must have both a forward and an aft bulkhead.		Minimum	
Number of berths (1.85x0.65(mean width))		Minimum	3
Of which can be pipe cots.		Maximum	2
Tableware		Minimum	3
Separate Heads		Minimum	1
Area at sitting height in heads compartment		Minimum	0.55 m ²
Enclosed storage space.		Minimum	0.5 m ³
Water tankage		Minimum	60 litre
III. Tender			
Length		Minimum	n/a
Breath		Minimum	n/a
Draft at half breath from inside of planking to gunwale		Minimum	n/a
IV. Crew			
Total		Maximum	5
Of which paid.		Maximum	1

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