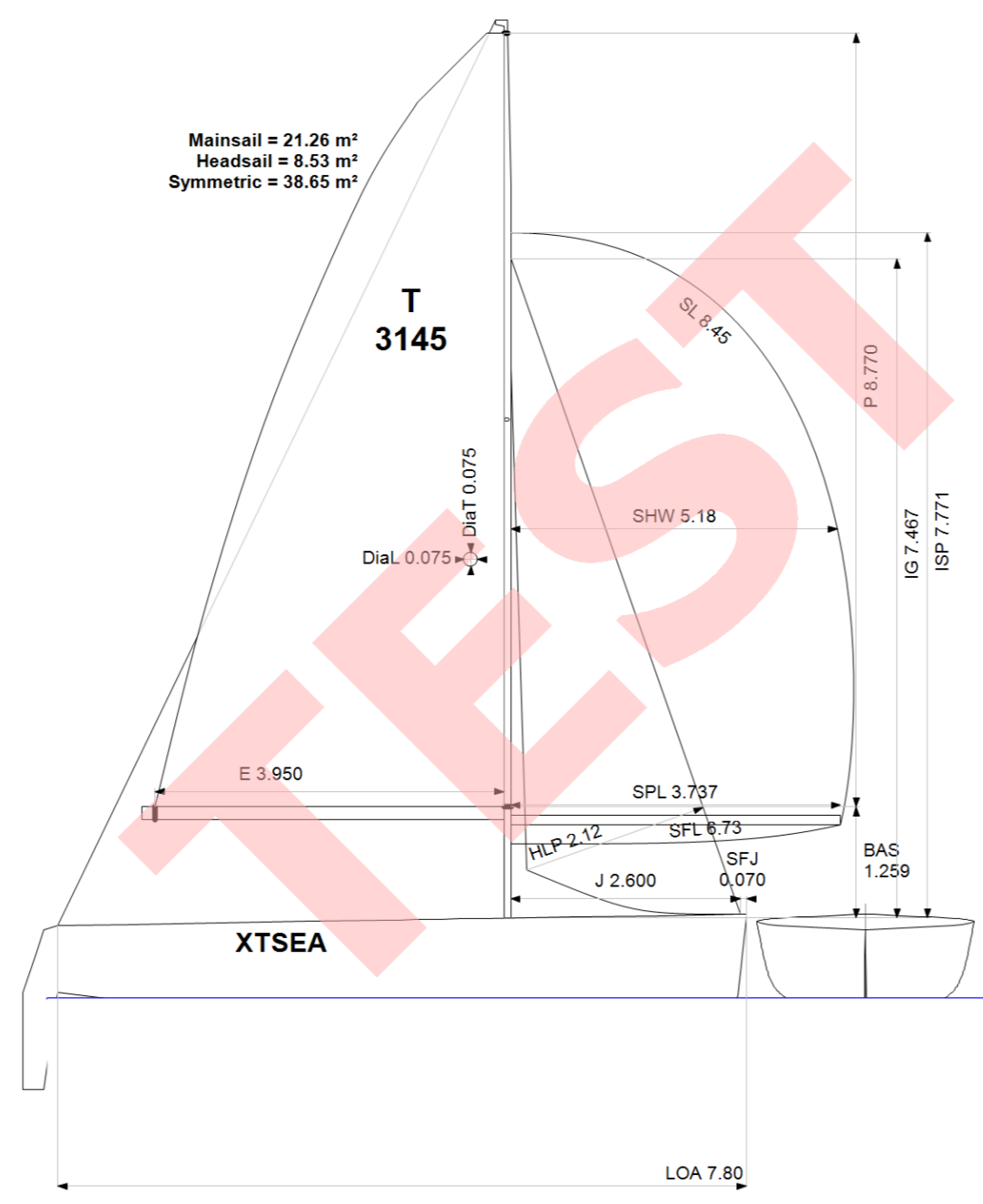




Club Certificate  
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APH ToD: **603.6** CDL: **7.260**

APH ToT: **0.9941** CertNo: **C319.0**

BOAT	
Class	ROSS 780
Designer	ROSS
Builder	HOPWOOD YACHTS
Age date	01/1984
Series date	01/1984
Offset file	ROSS780.OFF
Data file	

HULL	
Length Overall	7.800
Maximum Beam	2.462
Draft	1.783
Displacement	1,217
DLR	3.7627
IMS Division	Sportboat
Dynamic Allowance	0.180%
Age Allowance	0.650%
RS Assessment	0.000%

PROPELLER	
Installation	No Propeller
Type	N/A
Diameter	N/A

CREW	
Maximum weight	375 (declared)
Minimum weight	245 * when applied
Crew Arm Extension	

SAIL AREAS (m <sup>2</sup> )		
	Measured	Rated
Mainsail	21.26	22.13
Headsail Luffed	8.53	8.53
Headsail Flying		
Symmetric	38.65	38.65
Asymmetric		

STORM SAIL AREAS Maximum (m <sup>2</sup> )	
Trysail	6.07
Storm Jib	2.79
Heavy Weather Jib	7.53

SAIL LIMITS	
Headsails	5
Spinnakers	4

STABILITY	
Righting Moment	N/A
Stability Index	N/A

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 30.4.

Rated boat velocities in knots									
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	44.8°	42.5°	40.5°	38.8°	37.5°	37.2°	37.1°	37.6°	39.5°
Beat VMG	2.18	3.13	3.83	4.33	4.57	4.67	4.72	4.75	4.63
52°	3.39	4.74	5.64	6.16	6.41	6.52	6.59	6.67	6.66
60°	3.62	4.98	5.86	6.32	6.60	6.74	6.84	6.96	6.99
75°	3.79	5.14	6.00	6.46	6.82	7.10	7.27	7.50	7.61
90°	3.80	5.31	6.23	6.70	6.95	7.27	7.63	8.11	8.42
110°	3.80	5.31	6.27	6.86	7.40	7.84	8.17	8.85	9.68
120°	3.65	5.12	6.13	6.73	7.32	7.96	8.64	9.71	10.65
135°	3.17	4.57	5.59	6.36	6.89	7.46	8.14	10.34	12.81
150°	2.61	3.76	4.83	5.75	6.44	6.94	7.48	8.92	11.73
Run VMG	2.26	3.25	4.19	5.00	5.73	6.29	6.75	7.76	10.16
Gybe Angles	136.6°	145.6°	150.5°	154.8°	161.8°	172.3°	170.8°	158.6°	143.1°

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Time Allowances in secs/NM									
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1651.1	1149.6	939.3	831.2	787.4	771.6	762.4	758.5	777.7
52°	1062.9	759.8	637.9	584.5	562.0	552.5	546.1	539.4	540.9
60°	994.6	722.8	614.8	569.9	545.8	533.9	526.1	517.0	515.3
75°	951.0	700.4	600.3	557.4	527.6	506.8	495.0	480.0	473.3
90°	946.2	677.8	578.1	537.5	517.9	495.3	471.6	443.7	427.5
110°	946.9	677.5	573.9	524.7	486.4	459.1	440.7	406.7	372.0
120°	987.4	702.8	587.7	535.3	491.8	452.4	416.8	370.6	338.0
135°	1137.2	788.0	644.6	566.3	522.4	482.5	442.2	348.1	281.0
150°	1381.6	958.1	745.0	625.8	559.0	518.5	481.6	403.8	306.8
Run VMG	1595.3	1106.3	860.0	720.2	628.0	572.0	533.7	464.0	354.3
Selected Courses									
Windward / Leeward	1623.2	1128.0	899.6	775.7	707.7	671.8	648.1	611.2	566.0
All purpose	1225.0	862.2	705.8	626.9	582.9	555.9	534.6	499.6	469.0

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	743.5	0.8069
All purpose	603.6	0.9941

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KOR LTU NED NOR POR RSA RUS SLO SUI SWE UKR USA

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Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)			
Class	ROSS 780	Length overall	7.800
Measurement		Maximum beam	2.462
HIN		Draft	1.783
Plan review		Displacement	1,217
Hull construction	Cored	Wetted area	11.60
Carbon rudder	No	IMS L	7.328
Light stanchions	No	LSMO	6.864
Trim tab	No	Accomod. length	7.800
		Sink (kg/mm)	9.29
VCGD	0.055	Centerboard weight	N/A
VCGM	0.063	List angle	N/A
RM Rated (kg-m)	25.8	Canting keel angle	N/A
Limit of positive stability(°)	N/A		
Stability index	N/A		
BLR index	N/A		
Default crew weight	402		
Declared crew weight	375		

PROPELLER	
Propeller Type	No Propeller
Hydro generator	No

RIG	
Backstay	Not installed
Forestay	Fixed
Inner forestay	Not installed
Mast material	
Single headsail furler	No
Mainsail furler	
Articulated bowsprit	No
Non-circular rigging	No
Fiber rigging	No
Base of mast	Fixed
Running backstays	No
Checkstays	No
Spreaders	1
Rotating mast	No
P	8.770
IG	7.467
ISP	7.771
MDT1	0.075
MDL1	0.075
MDL2	
TL	Taper
MW	
GO	
E	3.950
J	2.600
BAS	1.259
FSD	
SFJ	0.070
SPL	3.737
WPL	
TPS	
BD	
MWT	
MCG	
PY	N/A
MDT1Y	N/A
MDL1Y	N/A
MDT2Y	N/A
MDL2Y	N/A
TLY	N/A
BASY	N/A
EY	N/A
BDY	N/A
IY	N/A
EB	N/A
Flying Headsail Foretriangles	
Id	ISP
TPS	

FLOTATION AND STABILITY			
Calculation method	RM estimated	SFFP	N/A
Flotation Date		FFM	N/A
		FF	N/A
		LCFcl	N/A
		SG	N/A
		SAFP	N/A
		FAM	N/A
		FA	N/A
		LCFsh	N/A
		HBI	N/A

INVENTORY

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MAINSAIL						
Id	MHB	MUW	MTW	MHW	MQW	Area
ORC	0.00	0.00	0.00	0.00	0.00	21.26

HEADSAIL						
Id	HHB	HUW	HTW	HHW	HQW	HLP
ORC						2.12

SYMMETRIC SPINNAKER						
Id	SLU	SLE	SL	SHW	SFL	Area
ORC	8.45	8.45	8.45	5.18	0.00	38.65

NON MANUAL POWER CONTROLS (NMP)					
Sheets	No	Mainsail cunningham	No	Jib track	No
Boommvang	No	Headsail cunningham	No	Tack line	No
Outhaul	No	Main traveller	No	Halyards	No
				Spinnaker retriever	No

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