



# 6

## INTERNATIONAL SIX METRE CLASS

Yacht's Name	<u>TEMPEST</u>	<u>OPEN</u>
Sail Number	<u>USA 125</u>	
Designer	<u>Sparkman &amp; Stephens</u>	
Builder	<u>Eric Goetz</u>	Building Year <u>1987</u>
Owner	<u>Erin Parker</u>	
Owner's Address	<u>[REDACTED]</u>	
Scantling Society/Cert.	<u>[REDACTED]</u>	

### RATING CERTIFICATE

**Salt Water**

This yacht has been measured by measurer(s) appointed by the International Six Metre Association and has been found to rate not more than 6.000 metres (or 6.03 if measured in fresh water).

This certificate is dated	<u>August 22, 2023</u>	Class Designation	<u>OPEN</u>
Measurer	<u>David Chivers</u>	Signature	<u>[REDACTED]</u>
Rating Expiration	<u>August 22, 2027</u>		
Supersedes	<u>June 16, 2021</u>	(enter former certif. number or date)	
Issuing Authority	<u>Offshore Ratings Office, US Sailing Association</u>		
	<u>James Teeters</u>	Signature	<u>James Teeters</u>

## RATING CALCULATION

<b>OVERALL LENGTH</b>				9.995	<b>9.995</b>
	Overhang Forward to L1		1.176		
	Overhang Aft to L1		1.020		
	Total Overhang (Subtract)		2.196	-2.196	
<b>MEASURED LENGTH (L1 L1)</b>		3.141		7.799	
	Girth at Bow		0.728		
	Twice vertical Height at Bow (Subtract)		0.600		
	O at Bow		0.128		
	Add 1 1/2 O at Bow (min 0.270 m)			0.270	
	Girth at Stern		1.980		
	Twice vertical Height at Stern (Subtract)		1.204		
	O at Stern		0.776		
	Add 1/3 O at Stern (min 0.200 m)			0.258	
	Add any penalty (Displacement and Beam))			0.064	
	Add any penalty at O2 (see Rule 3. Length - only for boats after 1 Nov 1970)			0.000	
<b>CORRECT LENGTH L</b>					<b>8.391</b>
	Skin d to d1 Port		1.770		
	Chain d to d1 Port		1.770		
	d Port		0.000	0.000	
	Skin d to d1 Starboard		1.770		
	Chain d to d1 Starboard		1.770		
	d Starboard		0.000	0.000	
	Add d			0.000	
<b>Add GIRTH 2 d</b>					<b>0.000</b>
	Mean Freeboard Bow O	Actual	0.822	0.822	
	Mean Freeboard Midship d	Actual	0.706	0.706	
	Mean Freeboard Stern O	Actual	0.692	0.692	
	Sum of Freeboards			2.220	
	<b>Subtract (1/3) FREEBOARD, F (max 730mm)</b>			0.740	<b>0.730</b>
	<b>Add SAIL AREAS (Square root)</b>				<b>6.561</b>
<b>TOTAL OF MEASUREMENTS</b>					<b>14.222</b>
	Calculated Rating			6.000	
	Penalty (Tumblehome + Draft)			0.000	
<b>RATING</b>					<b>6.000</b>

## PENALTIES

	Length overall		9.995		
	Overhang Forward to LWL end		1.513		
	Overhang Aft to LWL end		1.480		
	Subtract from overall length		2.993		
<b>WATERLINE LENGTH</b>				7.002	
<b>DISPLACEMENT</b>	(by weighing)			3780	
	DISPLACEMENT (vol.)			3.687	
	Minimum Displ. For Zero Penalty (Vol.)			3.723	
	Minimum Displ. For Zero Penalty (Wt.)			3.816	
	Equivalent LWL (for Displ. < min.)			6.970	
	Difference			0.032	
	DISPLACEMENT PENALTY (add to L)				<b>0.064</b>
<b>DRAUGHT (actual)</b>				1.620	
	Max. Draught for Zero Penalty			1.620	
	Difference (if positive)			0.000	
	DRAUGHT PENALTY (add to Rating)				<b>0.000</b>
<b>BEAM</b>				1.800	
	BEAM (Min)			1.851	
	Max Beam at 1/3 of Midship Freeboard			0.000	
	Difference (if positive)				<b>0.000</b>
	BEAM PENALTY (add to L)				
<b>TUMBLEHOME</b>				0.074	
	Tumblehome Max. (2 x 2% of Extr. Beam)			1.889	
	Extreme Beam			1.889	
	Beam at deck			0.000	
	Difference (if positive)			0.000	
	Excess Tumblehome			0.000	
	TUMBLEHOME PENALTY (add to Rating)				<b>0.000</b>

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## SAIL PLAN

Max Hgt Sail Plan =	13.000	J =	3.468	Spi Boom =	3.468	I =	9.750
Boom Height =	0.500	A =	12.500			B =	4.590
Rated Mainsail Area			28.687				
Rated Foretriangle Area			14.370				
TOTAL RATED SAIL AREA			43.057	$\sqrt{S}$	6.561		

### SAIL LIMITS

<b>Mainsail</b>							
Width at half height			3.075	Width at three quarter height	1.790		
<b>Spinnaker</b>							
Symmetrical Luff Length			10.778	Asymmetrical Luff	10.348		
Symmetrical Foot Length			8.670	Asymmetrical Foot	6.468		
				Asymmetrical Mid-Girth	7.115		

## SPARS MEASUREMENTS

MAST (material)	Aluminium	Mast Weight			
	Deck	Half-Height		Jib-Halyard	Head
Mast dimensions					
Mast CG position (from meas. point)					

## FLOTATION

Density of flotation water	
Freeboard allowance for reduced density	
Internal ballast	
Comments	

## COMMENTS


Date and place of Measurement	August 22, 2023	Universal Marina
Measurer's Name(s)	David Chivers	
Measurer recognised by : (enter National Authority)	US Sailing	
Measurer's signature		