

BOAT Name Krka Sail Nr SLO 1410	GPH 592.5	HULL Length Overall 12.259m Maximum Beam 3.884m Displacement 8,856kg Draft 2.157m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.228% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class Elan 410 Designer Humpreys Builder Elan Yachting Series 12/2005 Age 12/2007 Age Allowance 0.455% Offset File E410SDCL.OFF - 05/09/2008 18:11:16 Measurement by - 25/02/2011		IMSLS 11.549m VCGD 0.246m Sink 25.17kg/mm RL 9.402m VCGM 0.209m WS 33.10m² LSM0 11.643m Displacement/Length ratio 5.6110



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	575.6			642.7		
Time on Time	1.0424			1.0503		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	680.0	524.1	469.5	878.0	646.2	559.8
Time on Time	0.9926	1.2880	1.4377	0.7688	1.0445	1.2057

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1012.1	834.8	736.1	688.7	670.3	662.7	646.7
52°	659.6	556.5	499.2	476.9	469.1	465.5	460.4
60°	622.3	529.5	483.1	464.3	456.1	452.4	449.3
75°	594.3	509.4	471.9	453.8	442.5	435.0	429.1
90°	602.2	509.0	469.3	451.9	437.9	425.7	407.1
110°	600.2	497.3	456.9	437.0	424.8	415.7	398.1
120°	615.0	506.5	460.7	437.7	417.7	400.6	380.5
135°	678.0	551.4	481.7	451.4	430.5	409.1	367.8
150°	801.6	640.6	542.5	482.3	453.5	433.6	393.7
Run VMG	925.6	739.7	626.4	552.0	504.0	467.2	426.4

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ORC Ref **SLO00003906**
Issued On **02/06/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **855kg**
Maximum **855kg**
Minimum* **641kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	602.9	0.9951
Double H.OSN	587.5	1.0212
Non Spin GPH	629.0	0.9539
Non Spin OSN	610.5	0.9828

Selected Courses							
Windward / Leeward	968.8	787.2	681.3	620.3	587.2	565.0	536.5
Circular Random	815.9	658.6	574.6	526.3	497.1	478.1	453.5
Coastal / Long Distance	964.5	739.1	613.7	542.2	506.3	478.8	435.5
Non Spinnaker	882.7	705.6	609.1	552.4	517.5	494.9	466.8

Sails Limitations

Headsails	Spinnakers
6	4

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.0°	41.2°	40.7°	40.0°	39.2°	39.0°	38.3°
Beat VMG	3.56	4.31	4.89	5.23	5.37	5.43	5.57
52°	5.46	6.47	7.21	7.55	7.67	7.73	7.82
60°	5.78	6.80	7.45	7.75	7.89	7.96	8.01
75°	6.06	7.07	7.63	7.93	8.14	8.28	8.39
90°	5.98	7.07	7.67	7.97	8.22	8.46	8.84
110°	6.00	7.24	7.88	8.24	8.47	8.66	9.04
120°	5.85	7.11	7.81	8.22	8.62	8.99	9.46
135°	5.31	6.53	7.47	7.97	8.36	8.80	9.79
150°	4.49	5.62	6.64	7.46	7.94	8.30	9.14
Run VMG	3.89	4.87	5.75	6.52	7.14	7.71	8.44
Gybe Angles	142.1°	148.5°	149.8°	155.0°	166.9°	180.0°	180.0°

Class Division Length
CDL = **10.476**

Storm Sails Areas

Heavy Weather Jib	37.53
Storm Jib (JL=10.84)	13.90
Storm Trysail	15.34

Owner

BOAT	
Name Krka	Sail Nr SLO 1410
File SLO1410	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 16/05/2019			SG 1.0250		
FFM	1.467	FF	1.464	SFFP	0.505
FAM	1.085	FA	1.092	SAFP	11.810
W1	100.9	PD1	532.5	WD	11.920
W2	100.9	PD2	535.6	GSA	1.0
W3	100.9	PD3	538.2	RSA	1.0
W4	100.9	PD4	538.8	PLM	9000.0
LCF from stem on CL / on sheer				6.815 / 7.054	
Maximum beam station from stem				8.094	
RM Measured				176.6kg-m	
RM Default				201.9kg-m	
Limit of positive stability / Stab.Index				108.4° / 113.8	
Freeboard at mast at 4.690				1.264	



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RIG					
Forestay Tension	Aft	Spreaders		2	
Inner Stay	None Fitted	Runners		0	
Carbon Mast	No	Jumper Struts		None	
Taper Hollows	No	Jib Furler		No	
Fiber Rigging	No	Main Furler		No	
Lenticular Rigging	No	Without Backstay		No	
Articulated Bowsprit	No				
P	16.140	E	5.428	MDT1	0.125
IG	16.565	J	4.620	MDL1	0.240
ISP	17.595	SFJ	0.070	MDT2	0.125
BAS	1.578	SPL	4.620	MDL2	0.180
FSP	0.078	TPS		MWT	0.170
				TL	2.100
				MW	0.240
				GO	0.270
				BD	0.170
				MCG	

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.420
Type	Folding 3 blades	PBW	
Twin Screw	No	PIPA	0.0041
ST1	0.065	ST3	0.180
ST2	0.180	ST4	0.110
		ST5	0.284
		EDL	3.150

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.180	1.01	1.86	3.31	4.40	49.91	50.60	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	17.67	17.67	17.67	9.15	8.55	132.97		SL · (SFL + 4·SHW) / 6	
Asymmetric	Not Available								

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.09	0.70	1.35	2.62	3.82	4.96	16.46	42.25	Y		25/02/2011	Carbon	
0.09	0.51	0.98	2.08	3.34	4.71	15.70	34.74			25/04/2018	Dacron	

MEASUREMENT INVENTORY				
Measurer	CRO 5			
Date	16/05/2019			
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Volvo	D240B	
Id	Item	Weight Description		

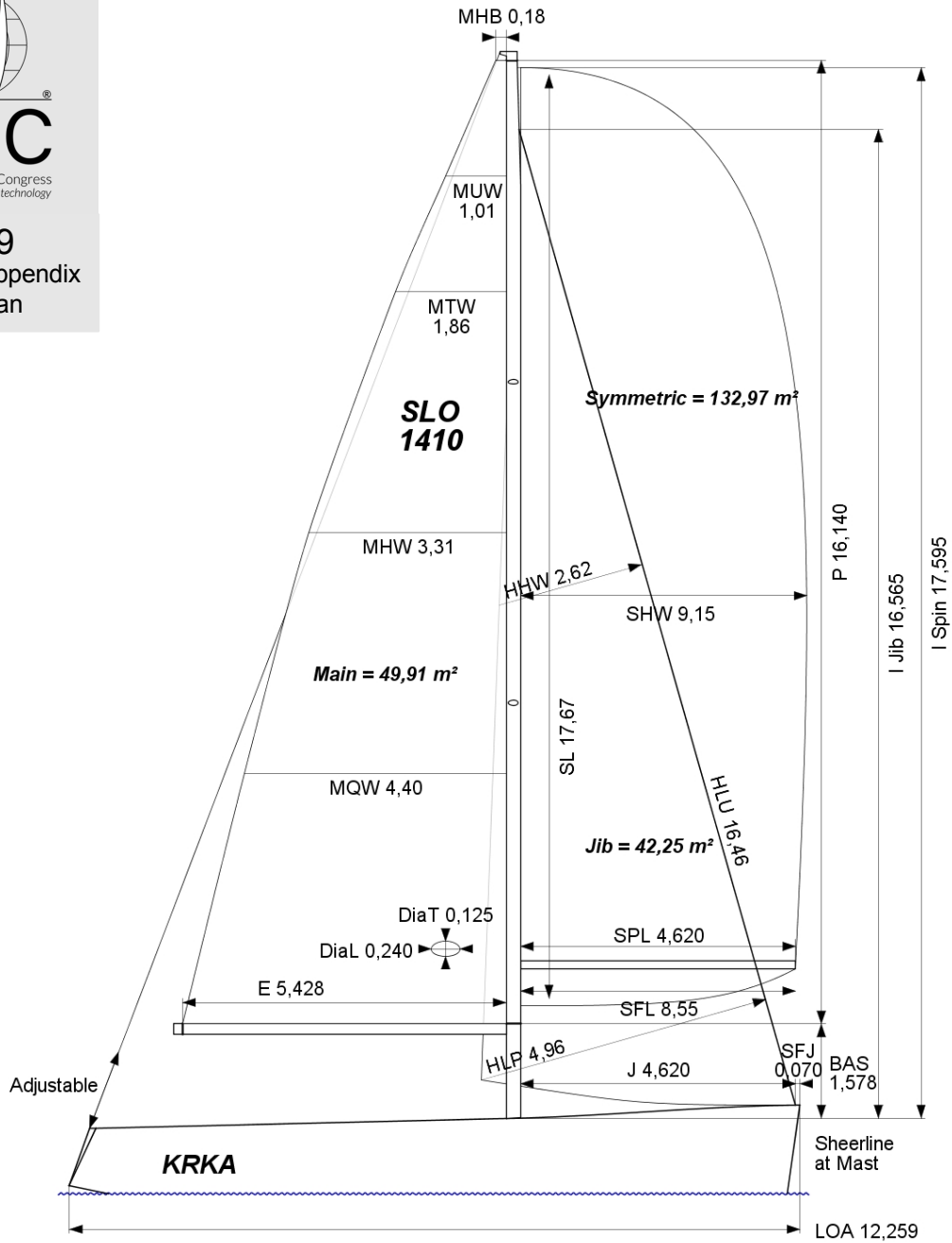
MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
6	Tank	Boiler	Inox	25.0	4.30		20-0	Port side	
5	Tank	Waste	PVC - Fix	80.0	11.00		0-0	Port side	
4	Tank	Disel	PVC - Fix	150.0	10.50		60-0	Stb side	
3	Tank	Water	PVC - Fix	125.0	6.40		0-0	Stb side - centerline	
2	Tank	Water	PVC - Fix	125.0	4.70		0-0	Port side	
Id	Item	Weight	Distance	VCG Description					
2	Battery		6.60	1x75 Ah port side					
1	Battery		2.01	3x 100 Ah stb side					



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Sail Plan



SAILS INVENTORY

MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.18	1.01	1.86	3.31	4.40	49.91		20/03/2018	Victory One	Carbon						
D	0.16	0.94	1.76	3.16	4.29	48.40		25/04/2018	North Sails	Dacron						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.09	0.70	1.35	2.62	3.82	4.96	16.46	107%	42.25	Y			25/02/2011	Victroy One	Carbon	
D	0.09	0.51	0.98	2.08	3.34	4.71	15.70	102%	34.74				25/04/2018	North Sails	Dacron	
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	17.67	17.67	17.67	9.15	8.55	132.97		02/06/2019	North Sails	Nylon	Blue					
D1	17.65	17.65	17.65	8.99	8.51	130.82		09/04/2019	North Sails	Nylon	New					
1	17.40	17.40	17.40	8.72	8.01	124.39		25/04/2018	One Sails	Nylon	White					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				