BOAT

Name **CHICO 2**
Sail Nr **USA-35009**

GPH

559.9

GENERAL

Class	**1D35**
Designer	**N/M**
Builder	**CARROLL MARINE**
Series	**01/1998**
Age	**01/1998**
Age Allow ance	**0.487%**
Offset File	**US42421.OFF - 05/06/2014 11:58:34**
Measurement by	**- 28/05/2014**

HULL

Length Overall	**10.670m**
Maximum Beam	**3.292m**
Displacement	**2,978kg**
Draft	**2.305m**
IMS Reg. Division	**Cruiser/Racer**
Dynamic Allow ance	**0.001%**
Fw d Accommodation	**No**
Hull Construction	**Cored**
Carbon Rudder	**Yes**
Crew Arm Extension	**0.00**

IMSL	**9.844m**	VCGD	**-0.218m**	Sink	**16.06kg/mm**
RL	**9.718m**	VCGM	**-0.116m**	WS	**20.72m²**
LSM0	**9.565m**	Displacement/Length ratio			**3.4031**

ORC
Offshore Racing Congress
World leader in rating technology

2019
ORC International Certificate

Rating Office

Offshore Racing Congress

COPY ONLY Invalid for Racing
World Leader In Rating Technology

SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	**547.1**			**615.6**		
Time on Time	**1.0967**			**1.0965**		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	**622.3**	**503.4**	**445.8**	**799.1**	**621.7**	**542.2**
Time on Time	**1.0847**	**1.3408**	**1.5140**	**0.8447**	**1.0858**	**1.2449**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	**900.2**	**745.2**	**696.3**	**677.4**	**663.7**	**652.9**	**654.9**
52°	**592.9**	**511.0**	**491.9**	**483.9**	**479.4**	**471.7**	**467.8**
60°	**560.9**	**496.6**	**477.6**	**468.4**	**462.7**	**455.3**	**446.2**
75°	**538.1**	**486.4**	**458.6**	**441.8**	**432.2**	**426.5**	**410.1**
90°	**541.1**	**486.3**	**454.6**	**424.8**	**405.5**	**394.8**	**383.6**
110°	**543.7**	**475.8**	**442.7**	**420.4**	**401.3**	**382.2**	**338.2**
120°	**557.5**	**480.1**	**436.7**	**404.4**	**383.4**	**365.9**	**327.3**
135°	**627.7**	**507.7**	**461.7**	**419.3**	**376.9**	**337.0**	**292.4**
150°	**748.3**	**594.8**	**509.8**	**466.2**	**431.2**	**391.9**	**309.2**
Run VMG	**864.1**	**686.8**	**588.9**	**538.2**	**497.9**	**452.5**	**357.0**
Selected Courses							
Windward / Leeward	**882.1**	**716.0**	**642.6**	**607.8**	**580.8**	**552.7**	**506.0**
Circular Random	**754.9**	**617.0**	**544.8**	**502.8**	**475.1**	**454.3**	**421.3**
Coastal / Long Distance	**880.3**	**675.7**	**582.2**	**527.3**	**491.6**	**458.1**	**402.2**
Non Spinnaker	**821.2**	**663.9**	**579.5**	**529.8**	**497.8**	**475.5**	**444.4**

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	**42.3°**	**40.4°**	**38.1°**	**37.2°**	**37.2°**	**36.8°**	**37.6°**
Beat VMG	**4.00**	**4.83**	**5.17**	**5.31**	**5.42**	**5.51**	**5.50**
52°	**6.07**	**7.05**	**7.32**	**7.44**	**7.51**	**7.63**	**7.70**
60°	**6.42**	**7.25**	**7.54**	**7.69**	**7.78**	**7.91**	**8.07**
75°	**6.69**	**7.40**	**7.85**	**8.15**	**8.33**	**8.44**	**8.78**
90°	**6.65**	**7.40**	**7.92**	**8.47**	**8.88**	**9.12**	**9.39**
110°	**6.62**	**7.57**	**8.13**	**8.56**	**8.97**	**9.42**	**10.65**
120°	**6.46**	**7.50**	**8.24**	**8.90**	**9.39**	**9.84**	**11.00**
135°	**5.74**	**7.09**	**7.80**	**8.59**	**9.55**	**10.68**	**12.31**
150°	**4.81**	**6.05**	**7.06**	**7.72**	**8.35**	**9.19**	**11.64**
Run VMG	**4.17**	**5.24**	**6.11**	**6.69**	**7.23**	**7.96**	**10.08**
Gybe Angles	**142.5°**	**144.9°**	**150.3°**	**151.4°**	**148.1°**	**145.3°**	**142.9°**

Certificate

Number	**US6370**
ORC Ref	**US00000248**
Issued On	**06/03/2019**
VPP Ver.	**2019 1.01**
Valid until	**31/12/2019**

Crew Weight

Default	646kg
Maximum	**646kg**
Minimum*	**485kg**
when applied by the NoR and SI	
Non Manual Pwr	**No**

Special Scoring

	ToD	ToT
Non Spin GPH	**596.8**	**1.0054**
Non Spin OSN	**583.4**	**1.0285**

Sails Limitations

Headsails	Spinnakers
5	**3**

Class Division Length

CDL = **9.781**

Storm Sails Areas

Heavy Weather Jib	**22.69**
Storm Jib (JL=8.43)	**8.41**
Storm Trysail	**12.06**

Owner

BOAT

Name	**CHICO 2**	Sail Nr	**USA-35009**
File	**US42421**	Data in	**meters/kilograms**

RIG

Forestay Tension	**Forward**	Spreaders	**2**
Inner Stay	**None Fitted**	Runners	**1**
Carbon Mast	**Yes**	Jumper Struts	**None**
Taper Hollows	**No**	Jib Furler	**No**
Fiber Rigging	**No**	Main Furler	**No**
Lenticular Rigging	**No**	Without Backstay	**Yes**
Articulated Bowsprit	**No**		

P	**13.560**	E	**5.078**	MDT1	**0.110**	MW	**0.180**
IG	**12.930**	J	**3.810**	MDL1	**0.160**	GO	**0.190**
ISP	**14.650**	SFJ	**0.000**	MDT2	**0.080**	BD	**0.160**
BAS	**1.510**	SPL	**0.000**	MDL2	**0.090**	MWT	**0.00**
FSP	**0.050**	TPS	**5.490**	TL	**1.990**	MCG	**0.000**

INCLINING TEST AND FREEBOARDS

Inclining Test **Current Inclining**

Flotation date **28/05/2014** SG **1.0000**

FFM	**1.235**	FF	**1.241**	SFFP	**0.170**
FAM	**0.954**	FA	**0.958**	SAFP	**10.300**

W1	**54.4**	PD1	**282.0**	WD	**13.060**
W2	**54.4**	PD2	**282.0**	GSA	**91.6**
W3	**54.4**	PD3	**282.0**	RSA	**6939.8**
W4	**54.4**	PD4	**282.0**	PLM	**2029.3**

LCF from stem on CL / on sheer	**5.883 / 6.090**
Maximum beam station from stem	**6.433**
RM Measured	**88.3kg·m**
RM Default	**95.3kg·m**
Limit of positive stability / Stab.Index	**121.3° / 116.1**
Freeboard at mast at 3.810	**1.083**

ORC
Offshore Racing Congress
World leader in rating technology

2019
IMS Measurement Certificate

MIZZEN RIG AND SAILS

N/A

PROPELLER

Installation	**Strut**	PRD	**0.384**
Type	**Folding 2 blades**	PBW	**0.000**
Twin Screw	**No**	PIPA	**0.0033**

ST1	**0.041**	ST3	**0.000**	ST5	**0.253**
ST2	**0.000**	ST4	**0.112**	EDL	**1.500**

Certificate

Number	**US6370**
ORC Ref	**US00000248**
Issued On	**06/03/2019**
VPP Ver.	**2019 1.01**
Valid until	**31/12/2019**

COMMENTS

IRC FLOAT FBD ADJ SCALE = 6500 OFFSETS ADJ

MOVABLE BALLAST

N/A

CENTERBOARD

N/A

SAILS (Maximum Areas)

Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula
	1.340	1.83	2.53	3.56	4.37	46.16	47.68	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)

Symmetric
Not Available

Asymmetric	SLU	SLE	SL	SHW	SFL		
on centerline	16.83	14.45	15.64	9.27	9.24	120.74	AS · (SFL + 4·SHW) / 6

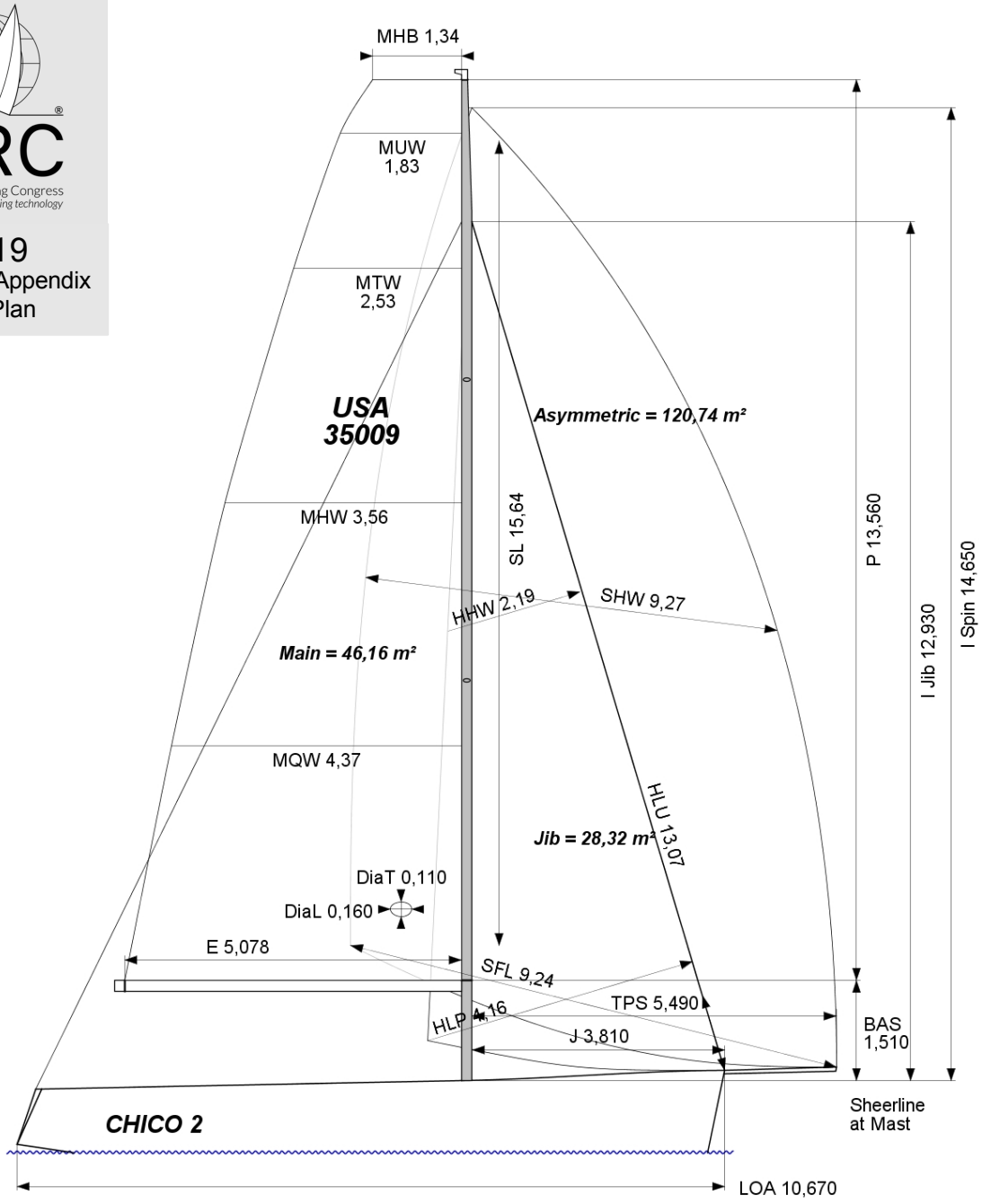
HEADSAILS

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
0.08	0.65	1.20	2.19	3.19	4.16	13.07	28.32	Y				* Copied from legacy *

ORC
Offshore Racing Congress
World leader in rating technology

2019
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ULMAN 17	1.34	1.83	2.53	3.56	4.37	46.16					* Copied from legacy

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
91587	0.08	0.65	1.20	2.19	3.19	4.16	13.07	109%	28.32	Y						* Copied from legacy *

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	16.83	14.45	15.64	9.27	9.24	120.75	asym					* Copied from legacy *