

| | | |
|--|----------------------------|--|
| BOAT Name EXTREMA Sail Nr ITA-16516 | GPH 600.1 | HULL Length Overall 10.600m Maximum Beam 3.250m Displacement 4,450kg Draft 2.170m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension |
| GENERAL Class X-35 Designer JEPPESEN Builder X YACHTS Series 09/2005 Age Age Allowance 0.455% Offset File x35.od.off - 29/01/2015 16:31:16 Measurement by - 16/05/2019 | | IMSL 9.438m VCGD -0.002m Sink 17.60kg/mm RL 9.270m VCGM -0.010m WS 22.90m² LSM0 9.241m Displacement/Length ratio 5.6390 |



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| SCORING OPTIONS | | | | | | |
|------------------------|--------------------------------|---------------|---------------|---------------------------|---------------|---------------|
| | COASTAL / LONG DISTANCE | | | WINDWARD / LEEWARD | | |
| Time on Distance | 584.9 | | | 650.8 | | |
| Time on Time | 1.0258 | | | 1.0371 | | |
| Triple Number | Low | Medium | High | Low | Medium | High |
| Time on Distance | 676.1 | 535.1 | 480.6 | 869.2 | 652.5 | 574.9 |
| Time on Time | 0.9983 | 1.2615 | 1.4044 | 0.7766 | 1.0345 | 1.1741 |

| TIME ALLOWANCES | | | | | | | |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Wind Velocity | 6 kt | 8 kt | 10 kt | 12 kt | 14 kt | 16 kt | 20 kt |
| Beat VMG | 971.6 | 805.3 | 720.0 | 693.5 | 683.2 | 674.1 | 667.7 |
| 52° | 641.7 | 545.4 | 508.9 | 497.6 | 492.9 | 490.6 | 482.9 |
| 60° | 608.8 | 528.3 | 498.0 | 485.1 | 479.7 | 476.7 | 467.2 |
| 75° | 583.8 | 517.0 | 489.3 | 470.8 | 458.7 | 452.5 | 446.4 |
| 90° | 589.9 | 515.7 | 483.5 | 467.5 | 447.5 | 431.8 | 416.8 |
| 110° | 603.4 | 512.6 | 477.2 | 450.1 | 426.3 | 412.1 | 389.7 |
| 120° | 621.8 | 521.4 | 482.8 | 452.8 | 424.5 | 402.6 | 369.2 |
| 135° | 689.7 | 562.1 | 504.0 | 473.7 | 445.0 | 417.5 | 359.4 |
| 150° | 818.0 | 654.3 | 555.6 | 503.8 | 475.5 | 448.8 | 397.8 |
| Run VMG | 944.5 | 755.5 | 640.5 | 569.2 | 518.6 | 486.9 | 436.4 |

Certificate
Number **165161**
ORC Ref **ITA00052964**
Issued On **30/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **615kg**
Maximum **705kg**
Minimum* **529kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

| | | |
|--------------|--------------|---------------|
| | ToD | ToT |
| Double H.GPH | 611.9 | 0.9806 |
| Double H.OSN | 598.5 | 1.0025 |
| Non Spin GPH | 630.1 | 0.9522 |
| Non Spin OSN | 613.1 | 0.9786 |

| Selected Courses | | | | | | | |
|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Windward / Leeward | 958.0 | 780.4 | 680.2 | 631.4 | 600.9 | 580.5 | 552.0 |
| Circular Random | 815.6 | 663.2 | 582.9 | 537.0 | 508.6 | 489.3 | 462.3 |
| Coastal / Long Distance | 956.7 | 735.3 | 618.0 | 556.5 | 521.1 | 491.5 | 442.7 |
| Non Spinnaker | 869.2 | 701.1 | 611.2 | 559.2 | 527.1 | 505.7 | 477.4 |

Sails Limitations

| | |
|-----------|------------|
| Headsails | Spinnakers |
| 5 | 3 |

| 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 | 42.1° | 40.8° | 38.8° | 37.8° | 37.3° | 37.0° | 37.2° |
| Beat VMG | 3.71 | 4.47 | 5.00 | 5.19 | 5.27 | 5.34 | 5.39 |
| 52° | 5.61 | 6.60 | 7.07 | 7.23 | 7.30 | 7.34 | 7.45 |
| 60° | 5.91 | 6.81 | 7.23 | 7.42 | 7.51 | 7.55 | 7.70 |
| 75° | 6.17 | 6.96 | 7.36 | 7.65 | 7.85 | 7.96 | 8.06 |
| 90° | 6.10 | 6.98 | 7.45 | 7.70 | 8.05 | 8.34 | 8.64 |
| 110° | 5.97 | 7.02 | 7.54 | 8.00 | 8.44 | 8.74 | 9.24 |
| 120° | 5.79 | 6.90 | 7.46 | 7.95 | 8.48 | 8.94 | 9.75 |
| 135° | 5.22 | 6.40 | 7.14 | 7.60 | 8.09 | 8.62 | 10.02 |
| 150° | 4.40 | 5.50 | 6.48 | 7.14 | 7.57 | 8.02 | 9.05 |
| Run VMG | 3.81 | 4.77 | 5.62 | 6.32 | 6.94 | 7.39 | 8.25 |
| Gybe Angles | 142.2° | 148.0° | 151.4° | 159.1° | 180.0° | 180.0° | 180.0° |

Class Division Length
CDL = **9.355**

Storm Sails Areas
Heavy Weather Jib **28.65**
Storm Jib (JL=9.47) **10.61**
Storm Trysail **12.23**

Owner

| | | |
|---------------------|---------------------------------|--|
| BOAT | | |
| Name EXTREMA | Sail Nr ITA-16516 | |
| File I16516 | Data in meters/kilograms | |

| | | | | |
|--------------------------------|------------------|----------------------------|-------------------|--|
| 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 14.252 | E 4.900 | MDT1 0.125 | MW 0.184 | |
| IG 14.494 | J 4.195 | MDL1 0.184 | GO 0.205 | |
| ISP 14.527 | SFJ 0.000 | MDT2 0.123 | BD 0.220 | |
| BAS 1.742 | SPL 4.185 | MDL2 0.141 | MWT 159.00 | |
| FSP 0.068 | TPS | TL 1.232 | MCG 4.471 | |

| | | | | | |
|--|------------------|--------------------|--|-----------------------|--|
| INCLINING TEST AND FREEBOARDS | | | | | |
| Inclining Test Current Inclining | | | | | |
| Flotation date 23/04/2017 | | | | SG 1.0220 | |
| FFM 1.333 | FF 1.334 | SFFP 0.075 | | | |
| FAM 0.977 | FA 0.978 | SAFP 10.275 | | | |
| W1 70.0 | PD1 532.6 | WD 11.220 | | | |
| W2 70.0 | PD2 540.9 | GSA 1.0 | | | |
| W3 70.0 | PD3 535.7 | RSA 1.0 | | | |
| W4 70.0 | PD4 538.5 | PLM 9000.0 | | | |
| LCF from stem on CL / on sheer | | | | 5.983 / 6.181 | |
| Maximum beam station from stem | | | | 7.300 | |
| RM Measured | | | | 115.2kg-m | |
| RM Default | | | | 121.2kg-m | |
| Limit of positive stability / Stab.Index | | | | 119.2° / 119.8 | |
| Freeboard at mast at 4.195 | | | | 1.112 | |



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| | |
|-----------------------------|--|
| MIZZEN RIG AND SAILS | |
| N/A | |

| | | | |
|------------------------------|------------------|--------------------|--|
| PROPELLER | | | |
| Installation Strut | | PRD 0.420 | |
| Type Folding 2 blades | | PBW 0.128 | |
| Twin Screw No | | PIPA 0.0033 | |
| ST1 0.042 | ST3 0.180 | ST5 0.255 | |
| ST2 0.180 | ST4 0.112 | EDL 2.390 | |

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|-------------------------------|--|
| Certificate | |
| Number 165161 | |
| ORC Ref ITA00052964 | |
| Issued On 30/05/2019 | |
| VPP Ver. 2019 1.01 | |
| Valid until 31/12/2019 | |

| |
|-----------------|
| COMMENTS |
| |

| | |
|------------------------|--|
| MOVABLE BALLAST | |
| N/A | |

| | |
|--------------------|--|
| CENTERBOARD | |
| N/A | |



| | | | | | | | | | |
|------------------------------|------------|------------|------------|------------|------------|-------------|-----------------|--|--|
| SAILS (Maximum Areas) | | | | | | | | | |
| Mainsail | MHB | MUW | MTW | MHW | MQW | Area | Area (r) | Formula | |
| | 0.200 | 1.08 | 1.89 | 3.19 | 4.12 | 41.93 | 42.79 | P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB) | |
| Symmetric | SLU | SLE | SL | SHW | SFL | | | | |
| | 14.35 | 14.35 | 14.35 | 7.80 | 7.50 | 92.56 | | SL · (SFL + 4·SHW) / 6 | |
| Asymmetric | SLU | SLE | SL | SHW | SFL | | | | |
| | 14.04 | 13.74 | 13.89 | 4.79 | 6.36 | 59.08 | | 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 |
| 0.09 | 0.68 | 1.26 | 2.31 | 3.35 | 4.39 | 14.50 | 33.08 | Y | N | 15/06/2017 | Unknow | LIGHT |
| 0.10 | 0.00 | 1.20 | 2.29 | 3.33 | 4.36 | 14.60 | 32.89 | N | N | 01/11/2007 | Unknow | LMA |
| 0.08 | 0.64 | 1.20 | 2.27 | 3.33 | 4.43 | 14.45 | 32.65 | Y | N | 11/06/2017 | Unknow | ONE 2 |
| 0.09 | 0.61 | 1.19 | 2.26 | 3.31 | 4.34 | 14.37 | 32.09 | N | N | 17/08/2015 | Unknow | LMB |
| 0.09 | 0.63 | 1.20 | 2.20 | 3.24 | 4.34 | 14.39 | 31.77 | N | N | 17/08/2015 | Unknow | MH02 |
| 0.09 | 0.62 | 1.19 | 2.20 | 3.23 | 4.33 | 14.29 | 31.46 | N | N | 17/08/2015 | Unknow | MH01 |
| 0.10 | 0.59 | 1.11 | 2.17 | 3.28 | 4.40 | 14.25 | 31.36 | N | N | 09/06/2013 | Unknow | CODE 2 |
| 0.09 | 0.49 | 0.90 | 1.83 | 2.84 | 3.91 | 14.33 | 27.21 | Y | N | 15/06/2017 | Unknow | J3 |
| 0.09 | 0.48 | 0.90 | 1.78 | 2.79 | 3.88 | 14.17 | 26.50 | N | N | 09/06/2013 | Unknow | J3 + HW JIB |

| | | | | |
|------------------------------|-------------|---------------|-----------------|------------------------|
| MEASUREMENT INVENTORY | | | | |
| Measurer FIV 132 | | | | |
| Date 23/04/2017 | | | | |
| Comment | | | | |
| Id | Item | Weight | Distance | VCG Description |
| Id | Item | Maker | Model | |
| A | Engine | YANMAR | 3YM20 | |
| Id | Item | Weight | Distance | VCG Description |

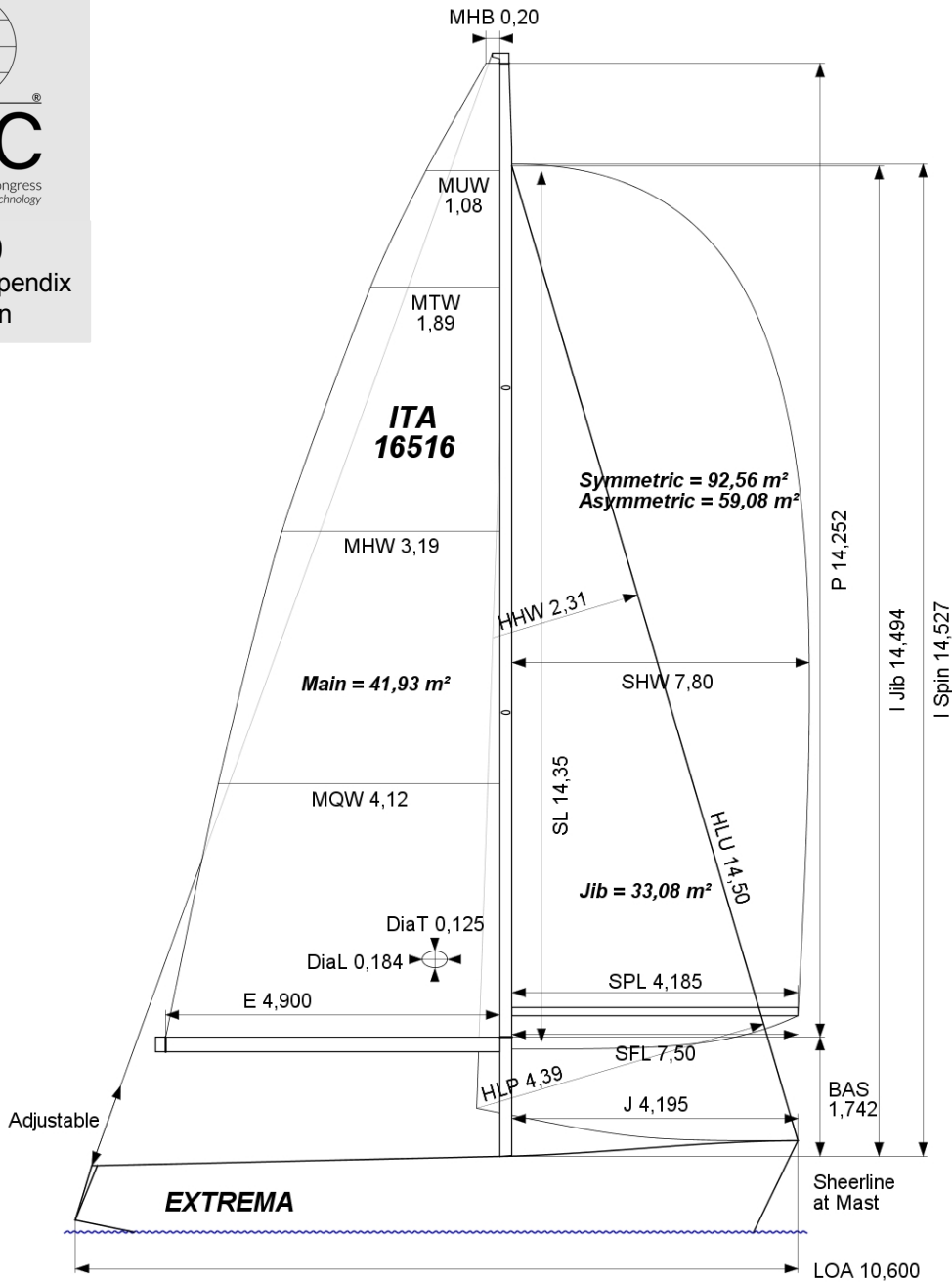
| | | | | | | | | |
|------------------------------|-------------|-----------------|------------------|-------------------------------------|--------------|------------|---------------|--------------------|
| MEASUREMENT INVENTORY | | | | | | | | |
| Id | Item | Tank Use | Tank Type | Capcty | Dist. | VCG | Condtn | Description |
| A | Tank | WATER | HDPE | 130.0 | 5.56 | 0.12 | 0-0 | LEFT |
| B | Tank | FUEL | ST STEEL | 60.0 | 6.18 | 0.12 | 7-5 | L RIGHT |
| Id | Item | Weight | Distance | VCG Description | | | | |
| A | Ballast | 48.0 | 4.85 | -0.08 2 RIGHT + 2 LEFT LEAD PIGS | | | | |
| B | Ballast | 5.4 | 4.85 | -0.08 3 LEAD PIGS - CENTER | | | | |
| A | Battery | 32.8 | 4.95 | 0.09 100Ah RIGHT | | | | |
| B | Battery | 18.7 | 5.22 | 0.09 50Ah RIGHT | | | | |
| A | Misc | 0.0 | 7.17 | 0.57 2 BURNERS STOVE+OVEN - LEFT | | | | |
| B | Misc | 0.0 | 7.59 | 0.10 BOILER - CENTER | | | | |
| C | Misc | 0.0 | 10.46 | 0.00 HEATING SYSTEM KJOELLER-CENTER | | | | |
| D | Misc | 0.0 | 9.91 | 0.00 NEXUS AUTOPILOT - CENTER | | | | |



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Sail Plan



SAILS INVENTORY

MAINSAIL (3)

| Id | MHB | MUW | MTW | MHW | MQW | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|------|------|------|------|------|-------|----------|------------|-------------|----------|---------|
| D | 0.20 | 1.08 | 1.89 | 3.19 | 4.12 | 41.93 | | 15/06/2017 | NORTH | Unknown | |
| B | 0.21 | 1.08 | 1.88 | 3.17 | 4.10 | 41.77 | | 01/11/2007 | NORTH | Unknown | |

HEADSAILS (9)

| Id | HHB | HUW | HTW | HHW | HQW | HLP | HLU | Ovrlp | Area | Btn | Fly | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|------|------|------|------|------|------|-------|-------|-------|-----|-----|----------|------------|-------------|----------|---------|
| L | 0.09 | 0.68 | 1.26 | 2.31 | 3.35 | 4.39 | 14.50 | 105% | 33.08 | Y | N | | 15/06/2017 | NORTH | Unknown | LIGHT |
| D | 0.10 | 0.00 | 1.20 | 2.29 | 3.33 | 4.36 | 14.60 | 104% | 32.89 | N | N | | 01/11/2007 | NORTH | Unknown | LMA |
| I | 0.08 | 0.64 | 1.20 | 2.27 | 3.33 | 4.43 | 14.45 | 106% | 32.65 | Y | N | | 11/06/2017 | ONE SAILS | Unknown | ONE 2 |
| E | 0.09 | 0.61 | 1.19 | 2.26 | 3.31 | 4.34 | 14.37 | 103% | 32.09 | N | N | | 17/08/2015 | NORTH | Unknown | LMB |
| F | 0.09 | 0.63 | 1.20 | 2.20 | 3.24 | 4.34 | 14.39 | 103% | 31.77 | N | N | | 17/08/2015 | NORTH | Unknown | MH02 |
| G | 0.09 | 0.62 | 1.19 | 2.20 | 3.23 | 4.33 | 14.29 | 103% | 31.46 | N | N | | 17/08/2015 | NORTH | Unknown | MH01 |
| B | 0.10 | 0.59 | 1.11 | 2.17 | 3.28 | 4.40 | 14.25 | 105% | 31.36 | N | N | | 09/06/2013 | ELVSTROM | Unknown | CODE 2 |

SYMMETRIC SPINNAKERS (3)

| Id | SLU | SLE | SL | SHW | SFL | Area | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|-------|-------|-------|------|------|-------|----------|------------|-------------|----------|---------|
| D | 14.35 | 14.35 | 14.35 | 7.80 | 7.50 | 92.56 | | 11/06/2017 | NORTH | Nylon | S1.5 |
| A | 14.26 | 14.26 | 14.26 | 7.74 | 7.47 | 91.34 | | 09/06/2013 | ELVSTROM | Nylon | S1 |
| B | 14.26 | 14.26 | 14.26 | 7.67 | 7.45 | 90.63 | | 09/06/2013 | QUANTUM | Nylon | S2 |

ASYMMETRIC SPINNAKERS (1)

| Id | SLU | SLE | SL | SHW | SFL | Area | Kind | Measurer | Meas.Date | Manufacture | Material | Comment |
|----|-------|-------|-------|------|------|-------|------|----------|------------|-------------|----------|---------|
| B | 14.04 | 13.74 | 13.89 | 4.79 | 6.36 | 59.08 | asym | | 16/05/2019 | NORTH | Unknown | MAZ1 |