AMYA Class Specifications for the

# East Coast 12 Meter Model Yacht

## 1.0 GENERAL

The East Coast 12 Meter Model Yacht is a restricted design model yacht class. Unless the Specifications specifically permit something, manufacturers, builders and owners shall assume it is prohibited. If necessary, interpretations of the Class Specifications may be requested from the Class Secretary.

## 2.0 APPROVED MANUFACTURERS

2.1 After July 1, 1995, all molds for manufacturing East Coast 12 Meter Model Yacht hulls shall be from the daughter plugs available from the Class Secretary.

2.2 Manufacturers shall not be authorized until the Class Secretary, or a designated agent, has approved a sample hull submitted, at the manufacturers expense, for inspection and measurement. All submitted hulls remain the property of the Class.

2.3 Approved manufacturers shall acquire sail number certificates from the Class Secretary that must be completed by the manufacturer and molded into hulls.

2.4 Hull material shall be restricted to fiberglass although resin type is unrestricted. The interior of the hull must be left unpainted or unpigmented to allow inspection.

2.5 Maximum keel width after joining of hull halves and placement of lead shall not exceed 2.1(53 mm).

2.6 Minimum hull weight, including deck flange or inwales (if any), shall not be less than 2.2 pounds (1 kilogram).

## 3.0 HULL

3.1 Hulls shall be obtained only from authorized manufacturers.

3.2 The overall length of the hull shall be established by the daughter plug.

3.3 Alteration to the manufactured hull by sawing, cutting, or adding any material to the exterior of the hull that would change the profile, contours or shape in any way is prohibited.

3.4 Notwithstanding Section 3.3, the aft edges of the keel may be faired into the rudder.

3.5 All registered yachts from previously approved manufacturers that met the Class Specifications on the date of their manufacture will be considered legal.

**4.0 DECK**

4.1 The deck may be obtained from an authorized manufacturer or may be constructed by the owner.

4.2 The deck shall only be constructed of wood, fiberglass (which may have a foam or wood core), and/or formica.

4.3 The sheer curve of the deck shall be a fair and continuous curve.

4.4 One deck hatch, not to exceed 60 square inches 9387 square cm.) in area, may be covered by another material. Any other hatches shall comply with Section 4.2.

**5.0 WATER LINE LENGTH & DRAFT**

5.1 Water line length shall not exceed 43 (1092 mm) in fresh water excluding the meniscus.

5.2 Water line length shall not be less than 42 (1067 mm) in fresh water excluding the meniscus.

5.3 Draft shall not exceed 7.875 inches (200 mm).

5.4 Once measured for an event, no alterations shall be made that alter the water line length, draft, or displacement of a yacht.

**6.0 BEAM**

6.1 The sheer curve of each boat shall measure within 0.25 inches (6 mm) of the specified beam at the indicated distance along the deck centerline from the bow:

| **Station** (in inches) | **Beam** (in inches) | **Station** (in mm) | **Beam** (in mm) |
|---|---|---|---|
| 5 | 2.48 | 127 | 63 |
| 10 | 4.57 | 254 | 116 |
| 15 | 6.46 | 381 | 164 |
| 20 | 8.15 | 508 | 207 |
| 25 | 9.65 | 635 | 245 |
| 30 | 10.75 | 762 | 273 |
| 35 | 11.14 | 889 | 283 |
| 40 | 10.75 | 1016 | 273 |
| 45 | 9.61 | 1143 | 244 |
| 50 | 7.72 | 1270 | 196 |
| 55 | 5.24 | 1397 | 133 |

6.2 Previously registered yachts may use the deck beam measurements and/or procedure in effect at the time of their original registration.

**7.0 RUDDER**

7.1 Rudders shall be constructed of wood and/or fiberglass.

7.2 The rudder shall not exceed 5 inches (125 mm) in height or 3.5 inches (90 mm) in width.

7.3 The rudder shall not be thicker than the widest portion of the aft section of the keel.

7.3 The bottom of the rudder shall not extend below the keel.

**8.0 RESERVED**

**9.0 RESERVED**

**10.0 MAST**

10.1 Maximum mast height (inclusive of mast crane) shall not exceed 72 (1829 mm) above the deck.

10.2 Masts shall be constructed of wood or aluminum.

10.3 Rotating masts or swing rigs are prohibited.

10.4 Wind indicators that rotate freely and completely and are clearly accessory to the mast and sails are optional and shall not be bound by the 72 (1829 mm) maximum height specification.

**11.0 BOOMS**

11.1 Booms shall be constructed of wood, aluminum and/or fiberglass.

11.2 Permanently bent or curved booms are prohibited.

11.3 Jib booms shall not extend beyond the bow.

**12.0 RADIO FUNCTIONS & RUNNING RIGGING**

12.1 A maximum of four radio functions may be employed, and controlled only by the skipper, to control only the following items by electronic and/or mechanical devices:

| | |
|---|---|
| Rudder | Jib sheet (or jib trim) |
| Main sheet | Jib twitcher |

12.2 The following items of running rigging are allowed and shall be adjusted only by manual means:

| | |
|---|---|
| Boom vangs | Luff tensioners |
| Travelers | Leech control lines |
| Downhauls | Jib club attachments |
| Outhauls | Jib twitcher adjustments |

**13.0 STANDING RIGGING**

13.1 The following items of standing rigging are allowed and may be adjusted only by manual means:

| | |
|---|---|
| Forestay/jibstay | Backstay |
| Sidestays | Jumper stays |

13.2 The forestay/jibstay shall be attached to the mast no higher than 59 (150 mm) above the deck.

**14.0 OPTIONAL ITEMS**

14.1 Radial jib fittings may be utilized.

**15.0 SAILS**

15.1 General

15.1.1 Sails shall be made of polyester based material (Dacron, Mylar, Terylene) and may be single or multi - paneled construction.

15.1.2 Corner reinforcements, broad seam reinforcements, and batten pockets are unrestricted as to material.

15.1.3 Corner reinforcements shall extend a maximum of 8 inches (200 mm) from the corners of the mainsail and 6 inches (150 mm) from the corners of the jib.

15.1.4 Eyelets shall be placed entirely within 5/8 inch (16 mm) of each sail corner.

15.1.5 Sails may be measured on or off the spars and battens shall be fitted when measuring.

15.1.6 When measuring sails, foot and leech measurements shall be equal to or less than the smooth curve produced by a constant section batten connecting the corners of the sail and the intervening measurement points, with no bending in the batten induced beyond those corners.

15.1.7 Three sets of sails and/or rigs shall be allowed for use in a regatta provided that, in events where sails are measured, the three sets shall be declared and measured prior to the first race.

**15.2 Mainsail**

15.2.1 The mainsail shall comply with the measurements in Figure 1.

15.2.2 There shall be four (4) battens in the leech and no such batten shall exceed 5 inches (127 mm) in length or 3/8 inch (9 mm) in width.

15.2.3 The mainsail shall be attached to the aft centerline of the mast by using a bolt rope or internal sail track slides in a grooved mast; or by using hooks, tubes, or loops attached to a jackline.

15.2.4 The foot of the mainsail may be attached to the upper centerline of the main boom using the attachment methods specified in 15.2.3 or the clew of the mainsail may be attached to the boom using hooks, loops, or other similar attachment devices

**15.3 Jib**

15.3.1 The jib shall comply with the measurements in Figure 1.

15.3.2 The jib may have two (2) battens in the leech and no such batten shall exceed 2 inches (50 mm) in length or 3/8 inch (9 mm) in width.

15.3.3 The luff tabling shall enclose the jibstay.

15.3.4 The foot of the jib may be attached to the upper centerline of the jib boom using the attachment methods specified in 15.2.3 or the clew of the jib may be attached to the boom using hooks, loops, or other similar attachment devices.

**16.0 DISTINGUISHING MARKS**

16.1 Each yacht shall carry on her mainsail the class identifier (12) and a sail number assigned by the Class. While the use of national initials is required at international sailing events, their use at other times is at the option of the owner unless it is required by the National Authority.

16.2 Sail markings may be painted on the sails or may be applied by any method providing good adhesion.

16.3 Requirements for the size of sail markings shall be as provided by the IYRU - MYRD.

## 17.0 ALTERNATE SAIL RIGS

### 17.1 General

17.1.1 Alternate sail rigs are an optional item permitted by the Class Specifications and there is individual discretion as to their use.

17.1.2 As approved sail plans, any of the rigs can be used and changed due to sailing conditions provided that rig changes shall occur only between heats.

17.1.3 Alternate rigs shall only be used as a complete set and the mixing of sails from alternate rigs or the main rig is not allowed.

17.1.4 The applicable provisions of Section 15.1 shall also apply.

17.2 Alternate Rig B

17.2.1 The mainsail and the jib shall comply with the measurements for the B Rig in Figure 1.

17.2.2 Except for dimensions, the other provisions of Sections 15, 16 and 17 shall also apply.

17.3 Alternate Rig C

17.2.1 The mainsail and the jib shall not exceed the measurements for the C Rig in Figure 1.

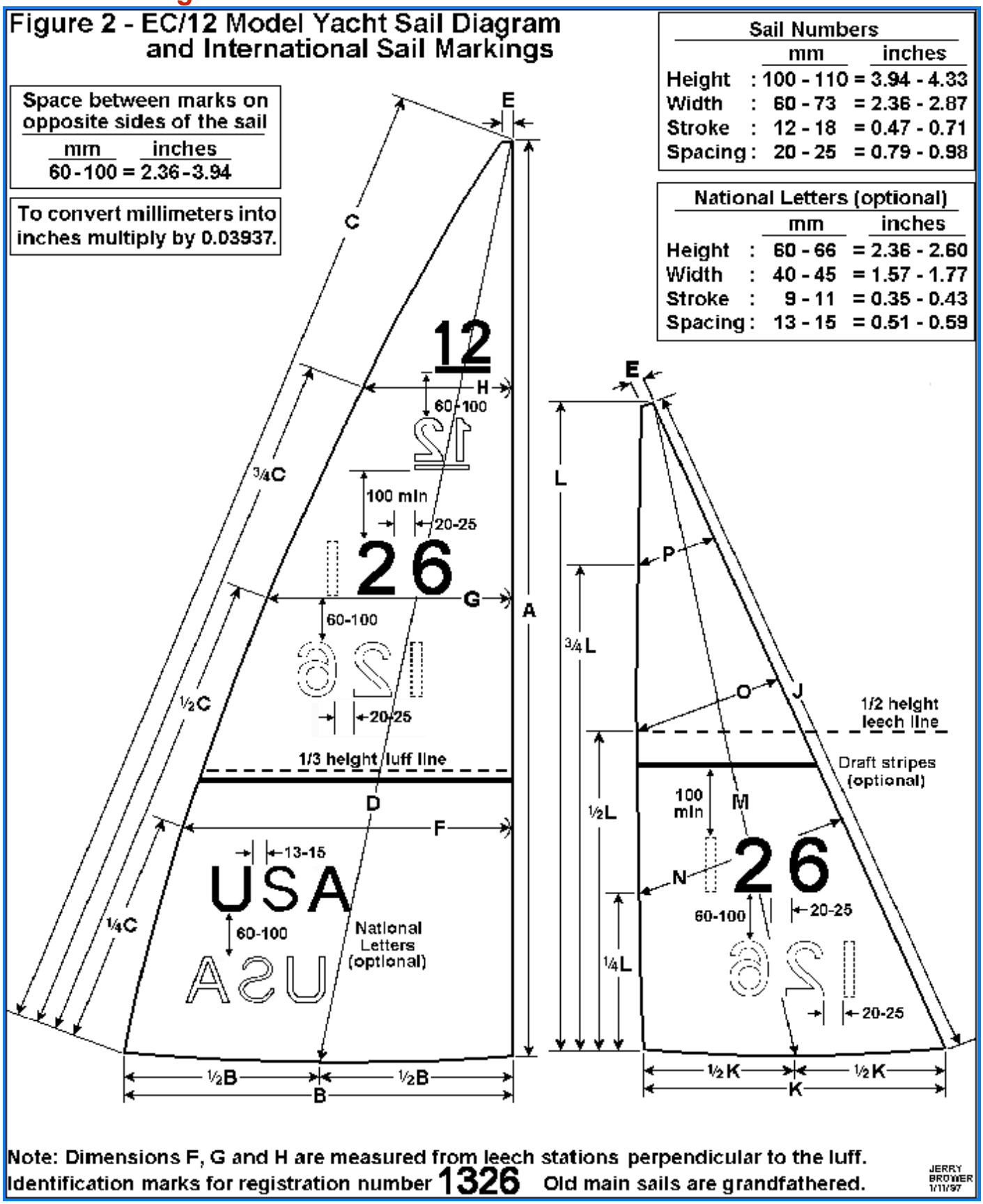
17.2.2 Except for dimensions, the other provisions of Sections 15, 16 and 17 shall also apply.

**Effective January 1, 1995**

## Figure 1 - EAST COAST 12 METER SAIL DIMENSIONS

| English measurements (inches) | | | | | Metric measurements (millimeters) | | | |
|---|---|---|---|---|---|---|---|---|
| | A Rig | B Rig | C Rig (max) | | | A Rig | B Rig | C Rig (max) |
| **A** | 66.50 - 67.00 | 59.49 - 60.00 | 54.02 | | **A** | 1690 - 1702 | 1511 - 1524 | 1372 |
| **B** | 21.77 - 22.01 | 21.77 - 22.01 | 22.01 | | **B** | 553 - 559 | 553 - 559 | 559 |
| **C** | 68.90 - 69.61 | 60.98 - 62.99 | 57.36 | | **C** | 1750 - 1768 | 1574 - 1600 | 1457 |
| **D** | 67.32 - 67.99 | 59.92 - 60.91 | 54.88 | | **D** | 1710 - 1727 | 1522 - 1547 | 1394 |
| **E** | 0.25 - 0.75 | 0.25 - 0.75 | 0.75 | | **E** | 6 - 19 | 6 - 19 | 19 |
| **F** | 18.07 - 18.31 | 17.72 - 17.95 | 17.56 | | **F** | 459 - 465 | 450 - 456 | 446 |
| **G** | 13.43 - 13.66 | 12.80 - 13.03 | 12.40 | | **G** | 341 - 347 | 325 - 331 | 315 |
| **H** | 7.56 - 7.80 | 7.09 - 7.32 | 6.81 | | **H** | 192 - 198 | 180 - 186 | 173 |
| **J** | 53.66 - 53.90 | 49.76 - 50.00 | 44.72 | | **J** | 1363 - 1369 | 1264 - 1270 | 1136 |
| **K** | 18.78 - 19.02 | 18.78 - 19.02 | 19.02 | | **K** | 477 - 483 | 477 - 483 | 483 |
| **L** | 50.31 - 50.55 | 45.28 - 46.26 | 40.75 | | **L** | 1278 - 1284 | 1150 - 1175 | 1035 |
| **M** | 52.05 - 52.28 | 47.05 - 47.56 | 42.13 | | **M** | 1322 - 1328 | 1195 - 1208 | 1070 |
| **N** | 14.09 - 14.33 | 13.70 - 13.94 | 13.54 | | **N** | 358 - 364 | 348 - 354 | 344 |
| **O** | 9.96 - 10.20 | 9.65 - 9.88 | 9.57 | | **O** | 253 - 259 | 245 - 251 | 243 |
| **P** | 5.51 - 5.75 | 5.31 - 5.55 | 5.35 | | **P** | 140 - 146 | 135 - 141 | 136 |

# Figure 2 - EAST COAST 12 METER SAIL DIAGRAM




## This Diagram Represents ISAF Method of Measuring Sails