

PART 2

DRAWINGS, MARKINGS AND TRIALS

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2.3	Trials and completion

DRAWINGS, MARKINGS AND TRIALS

2.1.1 Before building a vessel, drawing approval is required for the vessel intended to be built. If you are building a one-off vessel an MSF1356 Notice of Intention to Build should be submitted to the Marine Office closest to where the vessel is to be built. A list of Marine Offices can be found on the following link:

<https://www.gov.uk/government/organisations/maritime-and-coastguard-agency/about/access-and-opening>

2.1.2 When the build has been agreed, a CM Number and estimate, along with a request for payment will be provided and MSF5100 Application for Survey and Inspection of Ships and Fishing Vessels should then be submitted to the Marine Office.

2.1.3 If you would like the drawing approval to be dealt with separately, such as when multiple boats are to be built from the same set of drawings, then please clearly indicate this on the Additional Information form (MSF 1356). The address is –

MCA Plan Approval Unit
Albex House
1 Marchfield Drive
Paisley
Renfrewshire
PA3 2RB

2.1.4 Alternatively, applications and drawings can be submitted electronically to stability.unit@mcga.gov.uk

2.1.5 On receipt of the Application and additional information a lead surveyor will be nominated by the Marine Office or Stability and Plan Approval Unit. Once nominated, an estimate of fees will be provided.

Section 2.2 – Drawings and specification

2.2.1 For every vessel prior to construction commencing or in vessels of kit construction, prior to the ordering of the kit, two copies of each of the following main construction drawings and any other drawings and certificates as requested.

- General Arrangement;
- Lines plan
- Constructional profile and decks;
- Transverse sections and bulkheads;

Constructional details covering the following items should also be submitted for approval:-

- Water freeing arrangements
 - Steering gear and rudder
 - Propeller, shaft and bearings
 - Bilge pumping
 - Electrical layout
 - corresponding technical descriptions, calculations and data, including material specifications
 - outline specification for the vessel
- 2.2.2 Drawings may be submitted by post in hard copy format or by email in pdf or AutoCAD dwg format. If sent by post, these should be sent to the nominated Lead Surveyor.
- 2.2.3 The issue of any certificate of compliance may be affected in the absence of any of the required information, or delay in provision of technical details.
- 2.2.4 Failure to supply any of the requested drawings for approval may delay or prevent the issuing of certification.

Section 2.3 – Markings

- 2.3.1 A new vessel is to be measured for tonnage as required under Registration requirements.
- 2.3.2 Every vessel should have scales of draft marks permanently and clearly marked in metric units on each side of the vessel at the bow and where they can be easily read at the stern.
- 2.3.3 Any new vessel constructed and certified to these standards is to be marked with a CM number assigned by the MCA, in accordance with the MCA CM number form.
- 2.3.4 It is the responsibility of the builder to mark the CM number on the vessel in a plain typeface, clearly legible, with a letter height of at least 10mm. It must be permanently marked by the builder in a clean and visible position to the satisfaction of the attending surveyor.
- 2.3.5 The number may be:
- a. Engraved on a metal plaque with fixings drilled to prevent removal;
 - b. Moulded to the hull;
 - c. Carved into part of the structure; or
 - d. Welded to the structure; or fixed in some similar manner to the approval of the attending surveyor
- 2.3.6 The attending surveyor will check the marked number as part of the survey process. Certification will not be granted if the number is not marked in the correct manner.
- 2.3.7 Where a vessel gains MCA or FVCA Certification, the Certificate of Construction will have the same CM number clearly printed on it to identify the vessel and a

copy of the Certificate will be supplied to the Owner (as well as RSS where applicable).

- 2.3.8 Where a vessel does not gain certification, but a number has been issued, records will be kept by MCA to show that the vessel with that CM Number does not have certification. If the vessel has been marked, it will be the builder's responsibility to remove the marking from the boat.
- 2.3.9 The CM number is provided as a mean of identifying the vessel with corresponding MCA records. It is not an indication the vessel has been certified

Section 2.4 – Trials and completion

- 2.4.1 Upon completion of the vessel, the Builder is to demonstrate any items requested by the attending surveyor.
- 2.4.2 Upon completion and where appropriate to the size of the vessel A test programme for harbour and sea trials shall be prepared by the builder and customer and accepted by MCA to ensure systems function correctly. The programme shall specify systems and components to be tested, and the testing procedure. MCA may, in order to verify compliance, request additional tests and/or data to be recorded.
- 2.4.3 The trials should include a period of not less than two hours with the propulsion machinery running under continuous load, with the inclusion of a short full load test.
- 2.4.4 Where specified by the Construction Standards, testing shall be carried out in the presence of a surveyor, and related requirements for test programmes shall be observed.
- 2.4.5 The tests shall give evidence as to satisfactory operation and performance in accordance with the Construction Standards. When testing control and safety systems, failure modes shall be simulated as realistically as possible.
- 2.4.6 Safety equipment is to be installed as per the requirements of the relevant code of practice