

Hull Construction Standards – ISAF Certificate of Building Plan Review

This paper is brief summary of the requirements in the Offshore Special Regulations regarding the construction of monohull yachts racing in Race Categories 0, 1 and 2

OSR 3.03.1 (a):

“ A yacht of less than 24m in hull length (measured in accordance with ISO8666) with the earliest of Age or Series Date on or after 1 January 2010 shall have :

- Been designed, built and maintained in accordance with the requirements of ISO12215 Category A
- On board a certificate of building plan review from a notified body recognised by ISAF
- On board a declaration signed and dated by the builder to confirm the yacht is built in accordance with the plans reviewed by a Notified Body. “

More details from the webpage are below:

http://www.sailing.org/classesandequipment/offshore/plan_review.php

OSR STRUCTURAL PLAN REVIEW

INTRODUCTION AND AIMS

The aim of the ISAF Offshore Special Regulations Structural Plan Review Scheme is to implement compliance with the requirements of ISAF Offshore Special Regulations 3.03 - Hull Construction Standards (Scantlings).

www.sailing.org/specialregs.

The objective of the scheme is for ISAF together with ISAF recognized notified bodies to provide certification to designers, builders and/or owners to show compliance with specific parts of the International Standard ISO 12215: Hull Construction -Scantlings specified within the scope below.

Guidance and Procedure flow diagrams for Owners, Designers and/or Builders and Notified Bodies can be seen in the documents list below.

PLAN REVIEW

The structural plan review will be undertaken by ISAF recognised notified bodies. These are organizations that are able to carry out assessments and issue CE certificates for the European Recreational Craft Directive and have also been recognized by ISAF. ISAF recognition is given to notified bodies that have demonstrated experience with ballasted sailing yachts, operate an ISO recognized quality management system and also undergo regular

auditing by their national accreditation body. The list of notified bodies with contact information can be seen in the documents list below.

SCOPE

The scope of the plan review consists of application and calculation to the following parts of ISO12215 - Small Craft - Hull construction and scantlings:

ISO 12215 Part 5: Design pressures for monohulls, design stresses, scantlings determination
All parts and annexes where applicable to design category A ("ocean") - Sailing Craft

ISO 12215 Part 8: Rudders
All parts and annexes where applicable to design category A ("ocean") - Sailing Craft

ISO 12215 Part 9: Sailing Craft - Appendages
All parts and annexes where applicable to design category A ("ocean")

CRITERIA

- a) The boat shall show complete compliance with the above ISO standard parts.
- b) In all applicable cases the ISO standards should be applied as the minimum.
- c) Any interpretation of the ISO standard shall be as confirmed by the ISAF
- d) The latest version of the ISO standard shall be used at all times.
- e) There is no building inspection or site visits. The review is plan based only.

CERTIFICATION

There are two forms of certification:

- a) Series production; where several boats of the same type are produced in accordance with the plans and therefore each yacht will not require individual review and certification
- b) Custom or unique boat where the boat is a one of a kind yacht or a series production yacht that has been built or modified such that it is not in accordance with the plans of that series.

ISAF will maintain a list of yachts reviewed under the scheme on its website with certification information. If the yacht is a series type production there will be a single entry for that type of yacht with a link to a certificate for an owner or builder to make a hardcopy. The owner then signs the declaration including the CIN/HIN of their

particular yacht. For a unique yacht the certificate will not be published on the website and certificates will be issued direct from the ISAF recognized notified body upon compliance with the review requirements.

The recognized notified body should return digital copies of series production certificates to ISAF but are free to give them to individual owners on their request. Unique or custom certificates should be returned to the original enquiry source or their nominated individual.

OSR Plan Review Documents

ISAF Recognized Notified Bodies
OSR Plan Review FAQs
OSR Plan Review Interpretation 001-11
OSR Plan Review sample certification
Procedure for ISAF Recognized Notified Body
Procedure for Owners, Builders and or Designers

OSR Series Plan Review Certificates

CNB 76 - Plan Review
Carkeek 40 - Plan Review
DK47 - Plan Review
Farr 400 - Plan Review
Iceni 39 - Plan Review
J/111 - Plan Review
JPK 1010 - Plan Review
Ker 40 OD - Plan Review
Kiwi 40FC - Plan Review
M34 - Plan Review
Mach 40 - Plan Review
Marten 55 - Plan Review
Mat 1010 - Plan Review
McConaghy 38 - Plan Review
Reichel Pugh 13.3 - Plan Review
Salona 35 - Plan Review
Salona 38 - Plan Review
Sormiou 29 - Plan Review
Sydney GTS 43 - Plan Review
TYKER Evolution 3 - Plan Review
XP44 - Plan Review

OSR PLAN REVIEW CERTIFICATES - CUSTOM YACHTS

Below is the list of plan review certificates issued to date for custom yachts. These certificates are not available for download please contact the builder if a replacement certificate is required.

Certificate Number	Notified Body	Boat Name	Designer	Builder	Additional Notes
000001-0098-C	GL	TP52 - Team Origin	Juan Yacht Design	Salthouse Boatbuilders Ltd	Launched 2010

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000003-1681-C	RYA	Oystercatcher XXVIII (IRC 54)	Humphrey Yacht Design	Hakes Marine	Launched 2010
000004-1681-C - V2	RYA	Rikki (IRC 42)	Reichel Pugh Yacht Design	Davie Norris Boatbuilders Ltd	Updated Rudder 2011
000007-0098-C	GL	TP52 - Ran	Judel / Vrolijk	Green Marine	Launched 2011
000008-0098-C	GL	TP52 - Quantum Racing v2	Botin Carkeek Yacht Design	Longitude Zero	Launched 2011 / 2012 Keel Update
000009-0098-C	GL	TP52 - Container	Judel / Vrolijk	Green Marine	Launched 2011
000010-0098-C V2	GL	TP52 - All4One	Judel / Vrolijk	McConaghy Boats	Launched 2011 / 2013 Hull Structure
000011-0098-C-V2	GL	TP52 - Matador	Judel / Vrolijk & Co.	Richard Gillies	Structural Mod 2012
000015-0098-C	GL	47ft - Katana	Kernan Yacht Design	Westerly Marine	
000016-0098-C	GL	Highland Fling XII	Reichel Pugh Yacht Design	McConaghy Inc	Launched 2011
000017-0098-C	GL	TP52 - Synergy	Botin Carkeek Yacht Design	Longitud Cero	Launched 2011
000018-0098-C	GL	Ker 43 - Ptarmigan - USA 49	Ker Yacht Design	Salthouse	Launched 2011
000020-0575-C	DNV	Class 40 - California Condor	Antrim Associates	Boat Builder Inc.	
000021-0098-C	GL	Vela Veloce (BC239 - IRC52)	Botin Partners	Longitud Cero	
000023-0098-C	GL	50 Cruiser -	Judel / Vrolijk & Co.	Knierim Yachtbau GmbH	
000027-0098-C	GL	TP52 - Azzura	Botin Partners	King Marine	Launched 2012
000028-0098-C	GL	Bella Mente (IRC)	Judel / Vrolijk & Co	New England Boat Works	Launched 2012
000033-0098-C	GL	Elliott 57S - Opal	Elliott Boat Design Ltd	Knierim Yachtbau GmbH	
000034-0098-C	GL	#99 Ker 50 CR	Ker Yacht Design and Engineering SL	McConaghy Boats	Launched 2012

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000036-0098-L	GL	Wallycentro - Hamilton of London	Judel / Vrolijk & Co	Green Marine, UK	Over 24m
000037-0098-C	GL	Elliott 35 SS	Elliott Boat Design Ltd	Salthouse Boatbuilders	
000038-0098-C	GL	Ker 50 - Veruna	Ker Yacht Design and Engineering SL	Knierim Yachtbau GmbH	
000039-0098-C	GL	TBC			
000040-0098-C	GL	IRC 72 - STIG	Judel / Vrolijk & Co	Baltic	
000044-0609-C	GL	Radford 18.6m - Design # 78	Graham Radford	Neville Truman	
000045-0098-C	GL	TBC			
000046-0098-C	GL	CNB 76	PBYD	Construction Navale Bordeaux	
000047-0098-L	GL	TBC			
