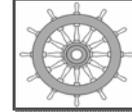


EC Directive 96/98/EC on Marine Equipment Directive (MED)



0801-01



Germanischer Lloyd

EC – European Commission



- Common policy concerning safety at sea
- Establishment of a Committee on Safe Seas and the Prevention of Pollution from Ships (COSS)
- EC – Directives
 - Directive on Marine Equipment
 - Directive on safety rules and standards for passenger ships
 - Regulation on the accelerated phasing-in of double hull or equivalent design requirements for single hull oil tankers
 - Directive on Minimum Safety and Health Requirements for Medical Treatment on board of vessels
 - Regulation on the prohibition of organotin compounds on ships



EC Directive on Marine Equipment (96/98/EC as amended)

- In force since 1999-01-01
- **Applicable for Marine equipment**
 - For which type approval is required by mandatory Conventions and Codes and
 - Which are listed in Annex A.1 of the Directive
 - Life-saving appliances
 - Marine-pollution prevention
 - Fire protection
 - Navigation equipment
 - Radio communication equipment
- **Applicable on ships under EC flag and EFTA member states**
- **Amended with Directive 2002/75/EC (Annex A.1)**



Role of European Maritime Safety Agency (EMSA) for the MED

- Preparation of updates of technical annexes of MED
- Monitoring of development of performance and testing standards
- Monitoring of the work of the group of notified bodies (MarED)
- Manage a database of EU approved marine equipment



Main Aim of EC Marine Equipment Directive

- Common policy concerning safety at sea
- Uniform safety standard
- Uniform test standards
- Uniform verification, approval and certification procedure
- Acceptance of the approvals by all flag state authorities of the member states, independent where the products have been manufactured
- Free trade within EU
- Avoid multiple approvals

Note:

It is recommended to order the equipment with MED approval in any case to avoid problems in connection with a possible change of flag before, during or after delivery of the vessel.

Flag states for which MED approval is required



- *EC member states: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Republic of Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Romania and United Kingdom.*
- *Also Gibraltar and the EFTA (European Free Trade Association) members Iceland and Norway have agreed to apply the MED.*
- *Several other flagstates outside the EC (e.g. Liberia, Panama, Antigua & Barbuda, Marshall Islands, Australia...) have declared that they accept MED approved equipment on board of their vessels.*



Notified Bodies

- Notified Bodies are designated by the competent national administration
- Germanischer Lloyd has been designated by Luxembourg

→ GL- Luxembourg (notified body)  0801

→ GL- HO (test laboratory)

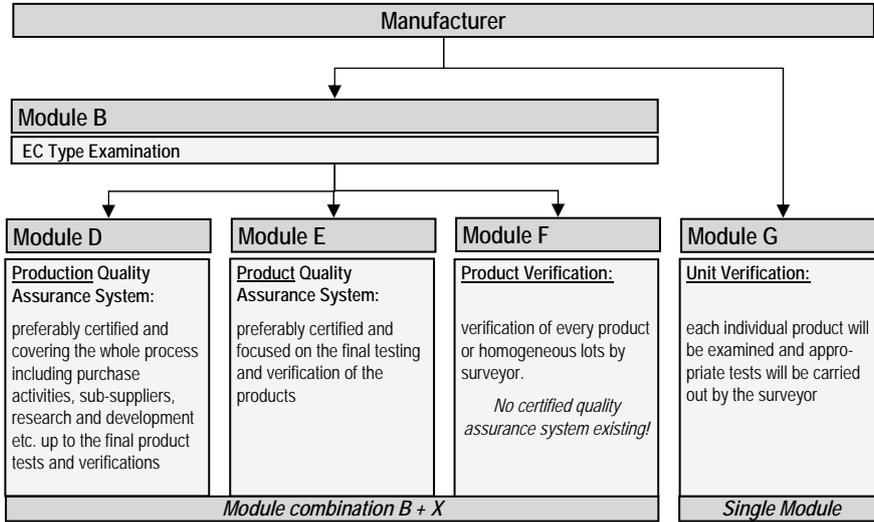


Germanischer Lloyd

Mutual Recognition Agreement EC-USA

- US accepting Certificates delivered by an EC NB
- EC accepting the US Coast Guard as a NB
- EC NBs have the right to issue the marking and numbering required by US regulations
- Number issued by a NB on behalf of USCG: 165.103/EC0801-certificate#

Conformity Assessment Procedure



Annex A.1



No	Item designation	Regulation SOLAS 74 as amended where "type-approval" is required	Applicable regulations of SOLAS 74, as amended, and the relevant resolutions and circulars of the IMO	Testing standards	Modules for conformity assessment					
					B + C	B + D	B + E	B + F	G	H
A.1/1.21	Launching appliances using fall and winch (devils)	Regulation III/4, Regulation X/3	Regulation III/23, III/33 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.5, 8.6 and 8.7 (1994 HSC Code)	IMO Resolution MSC.81(70)	X	X	X	X		
		Regulation III/4, Regulation X/3	Regulation III/23, III/33 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1, 8.5, 8.6 and 8.7 (2000 HSC Code)							
A.1/1.22	Floot-free launching appliances for survival craft	Moved to Annex A.2								
A.1/1.23	Launching appliances for free-fall lifeboats	Regulation III/4, Regulation X/3	Regulation III/33 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36(63) 8.1, 8.5 and 8.7 (1994 HSC Code)	IMO Resolution MSC.81(70)					X	
		Regulation III/4, Regulation X/3	Regulation III/33 and III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.97 (73) 8.1, 8.5 and 8.7 (2000 HSC Code)							
A.1/1.24	Liferaft launching appliances	Regulation III/4, Regulation X/3	Regulation III/34, IMO Resolution MSC.48 (66), IMO Resolution MSC.36 (63) 8.1, 8.5, 8.6 and 8.7 (1994 HSC Code)	IMO Resolution MSC.81(70)	X	X	X	X		

General Procedure

- Procedure
 1. Application by the manufacturer (see GL – form)
 2. Module B: Performance of the required tests acc. to Annex A.1
Module D/E: Audit at manufacturer's site (annual audits are required)
Module F: Survey at manufacturer's site
Module G: Examination and tests at manufacturer's site
 3. Module B/F/G: Examination of technical documents and test reports
Module D/E: Examination of quality documents and audit report
 4. Preparation of the certificate (by designated expert of notified body)
 5. Issuance of the certificate (by notified body)
 6. Fixing of wheel mark and issuance of the declaration of conformity (by manufacturer)
(not allowed before availability of the EC certificates to be issued by the notified body)

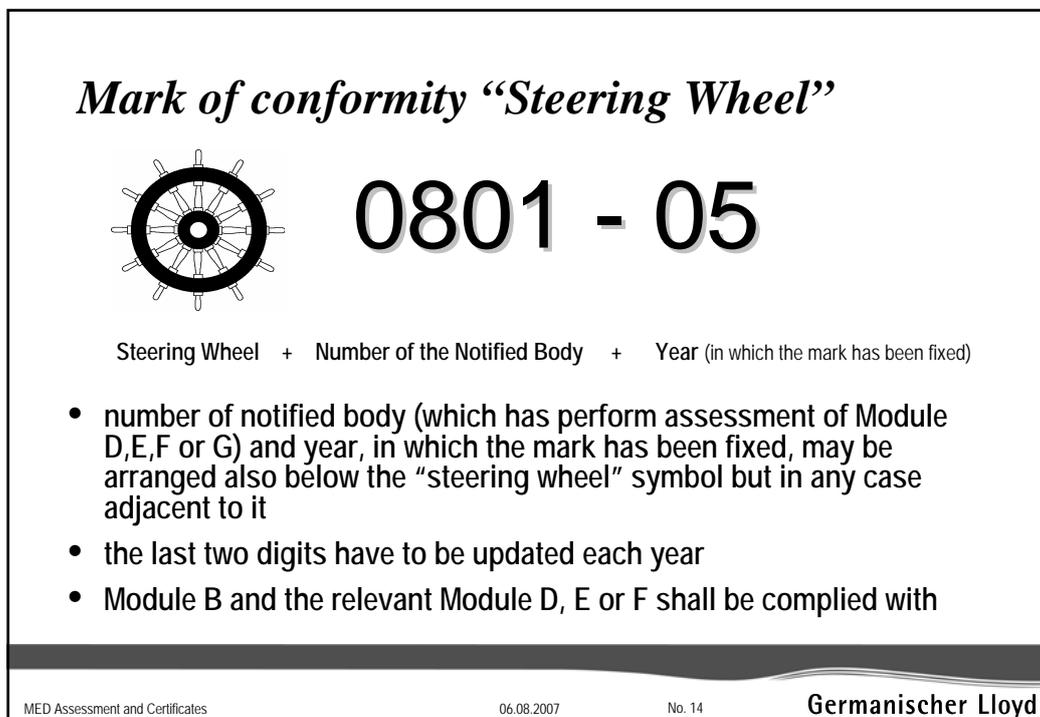
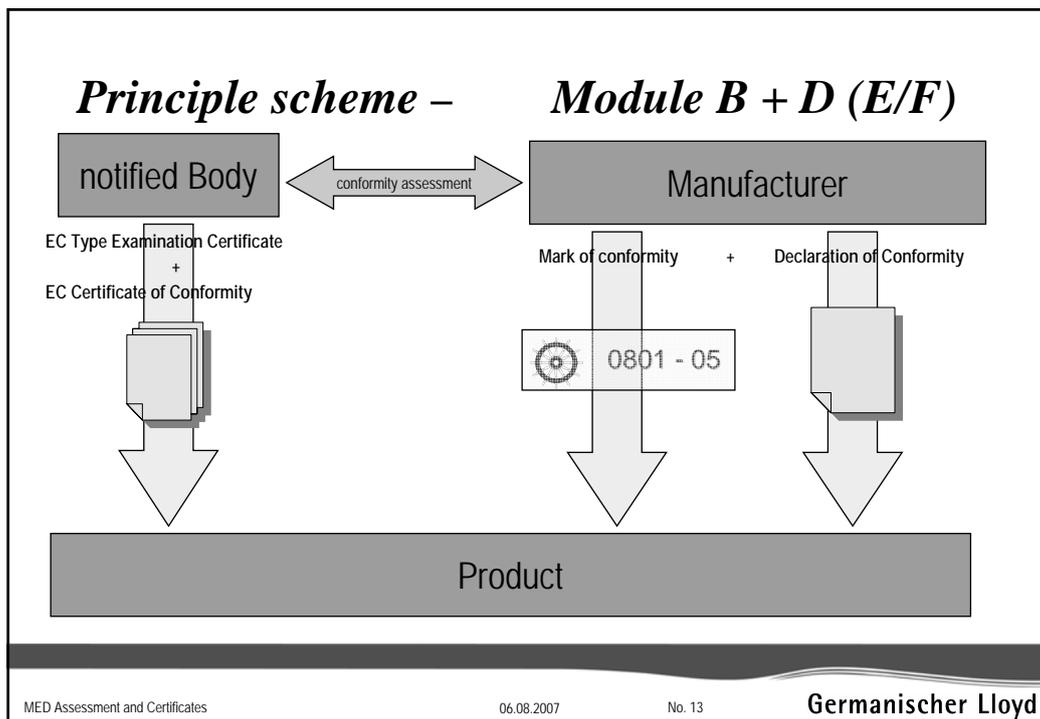
Documents to be issued

Module B+D/E/F

1. EC Type Examination Certificate
to be issued by notified body
2. EC Certificate of Conformity
to be issued by notified body
3. Declaration of Conformity
to be issued by manufacturer

Module G

1. EC Certificate of Conformity
to be issued by notified body
2. Declaration of Conformity
to be issued by manufacturer





EC Type Examination Certificate GL Luxembourg

of a Notified Body within the meaning of Article 9 of the Marine Equipment Directive 96/98/EC of 20 December 1996.

This is to certify that the equipment identified below has been tested in accordance with the relevant type approval procedures of the Marine Equipment Directive and was found in compliance with the requirements of the international standards contained therein.

Certificate No.	42 244 - 01 Lux
Company	Shanghai Tian Jun Lifeline Equipment Co. Ltd. 2313, Tang Lu Road, Pu Dong New Area Shanghai 201201, P.R. China
Product Description	floating RADAR reflector for lifeboats and rescue boats
Product Type	TJ-470
Item No.	A 513.33
Conformity Assessment Procedure	B-D
Related Directive	96/98/EC
Additional Standards	
Specified Standards	IMO Resolution A.384(X) ISO - EN 8729
Documents	Test and Inspection Report, Serial No. 99021098-2000
Remarks	None
Valid until	2006-12-09



GL Luxembourg
EC Identification No.: 0801

Page 1 of 1
Luxembourg, 2003-01-13

This certificate is valid only for the equipment that conforms to the approved type. The manufacturer must inform the notified body in writing of any modification or changes in the approved production order to issue a new certificate. The notified body reserves the right to inspect the equipment at any time and to refuse to issue a certificate if it is found that the equipment does not conform to the approved type. The notified body reserves the right to refuse to issue a certificate if it is found that the equipment does not conform to the approved type. The notified body reserves the right to refuse to issue a certificate if it is found that the equipment does not conform to the approved type.

Internal Publication: GL Approval

MED Assessment and Certificates
06.08.2007
No. 15
Germanischer Lloyd



EC Certificate of Conformity GL Luxembourg

of a Notified Body within the meaning of Article 9 of the Marine Equipment Directive 96/98/EC of 20 December 1996.

This is to certify that the quality system is in conformity with the requirements of module D (Production Quality Assurance) of the Directive 96/98/EC. Annex D ensuring that the equipment identified below is conform to type as described in the EC Type Examination Certificate.

Certificate No.	20 982 - 04 Lux
Company	DESA Systemtechnik GmbH Gardengraben Straße 18 D-29113 Rotenburg
Product Description	fire door type "WTE 2-B-10" [door opening: 80 x 200 cm (width x height)]
Product Type	class B-15 door
EC Type Examination Certificate No.	43 090 - 02 Lux
Date of issue	31.08.2004
Valid until	19.04.2007
Notified Body ID No.	0801

Item No.	A.13.16
Conformity Assessment Procedure	D
Remarks	URCC Approval number: 164-130/EC 0801/43090-02 Lux
Valid until	2007-04-19



GL Luxembourg
EC Identification No.: 0801

Page 1 of 2
Luxembourg, 2004-08-31

This certificate is valid only for the equipment that conforms to the approved type. The manufacturer must inform the notified body in writing of any modification or changes in the approved production order to issue a new certificate. The notified body reserves the right to inspect the equipment at any time and to refuse to issue a certificate if it is found that the equipment does not conform to the approved type. The notified body reserves the right to refuse to issue a certificate if it is found that the equipment does not conform to the approved type. The notified body reserves the right to refuse to issue a certificate if it is found that the equipment does not conform to the approved type.

Internal Publication: GL Approval

MED Assessment and Certificates
06.08.2007
No. 16
Germanischer Lloyd

EC Certificate of Conformity

of a Notified Body within the meaning of Article 9 of the Marine Equipment Directive 96/98/EC of 20 December 1996
This is to certify that the equipment identified below has been examined and tested in accordance with the relevant requirements of the international standards, that apply to it.



GL Luxembourg

Certificate No.	20 111 04 Lux
Company	Fr. Faeser GmbH & Co. Schiff- und Bootwerft Industriestraße 2 D-27864 Emsbütten
Product Description	Launching Ramp for Frostal Lifesuit
Product Type	FLR006
Serial No.	0564607
Item No.	A.11.13
Conformity Assessment Procedure	G
Related Directive	2002/95/EC
Additional Standards	LSA-Code, Chapter VI, Regulation 6.1.1 and 6.1.4 IMO-Resolution MSC.81(70), Part 5, Regulation 6.1
Documents	Drawing: 00.8050-00.00.00 approved with Ref. No. 13091203 Test report: 47721 STN (19/03)
Remarks	None

GL Luxembourg
EC Identification No.: 0001

Page 1 of 1
Luxembourg, 2004-02-20



MED Assessment and Certificates

06.08.2007

No. 17

Germanischer Lloyd

Silver Point
Airport Service Road
Portsmouth
Hampshire UK
PO3 5PB
Int +44 (0)23 9282 2900
www.mcmurdo.co.uk



EC DECLARATION OF CONFORMITY

We declare that the following products comply with the essential requirements of Council Directive 96/98/EC as the approximation of the laws of the member States relating to Marine Equipment as amended by Commission Directives 98/98/EC, 2001/93/EC, 2002/75/EC and 2002/95/EC, as evidenced by a EC Type Examination Certificate as detailed overleaf.

Products covered by this Declaration

Product Type: 406 MHz EPIRB
Annex A.118.6

Models:
McMurdo E3
McMurdo Pains Wessex E3 406 MHz EPIRB
McMurdo Rescue 406 MHz EPIRB
McMurdo Pains Wessex Rescue 406 MHz EPIRB
Pains Wessex SOS Rescue 406 MHz EPIRB
Sailor 406 MHz Satellite EPIRB

Intended usage of products
All vessels which must comply with IMO SOLAS regulations in coastal or international waters.

Surveillance conformity assessment is undertaken in accordance with Production Quality Assurance Module D by:
 Ginec (No. 0191)
 Holy Road, Farnborough GU14 0LX, United Kingdom

The product will carry this Conformity Marking:  0191 XX
XX = last two digits of year mark affixed

Issued on behalf of McMurdo Limited
 Signed: 

Name: C P Holyman
 Title: Technical Director
 Date: 31 OCT 2005

See overleaf for technical information

Page 1 of 2

MED Assessment and Certificates

06.08.2007

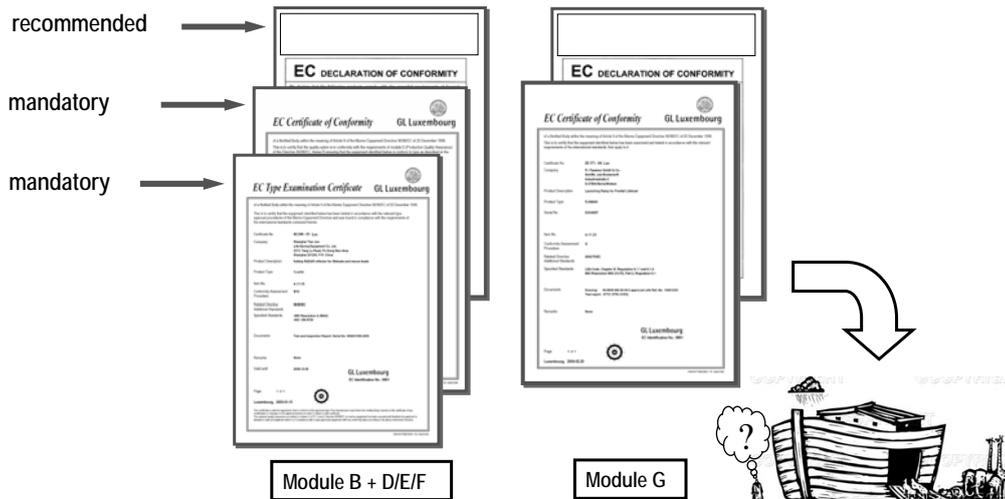
No. 18

Germanischer Lloyd

Declaration of conformity

- to be issued by the manufacturer
- beside not required by the directive it is highly recommended to supply a copy with each product
- Module B and the relevant Module D, E or F shall be complied with

Documents to be available on board



List of equipment to be approved acc. to Directive 96/ 98/EC (MED) as amended by 2002/75/EC



To be completed by shipyard before delivery.

Item No.	Equipment	applicable		Name of Manufacturer	Type, Trade Name	EC-Type-Examination Certificate	Modules for conformity assessment					Name of Notified Body	Identification Number
		yes	no				B	D	E	F	G		
! Entries to be comply with entries on type and conformity certificates !													
A.1/1.12	Inflatable liferafts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	DSB GmbH	LR97-SOLAS	00905610	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SBG	0736
A.1/1.13	Rigid liferafts	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
A.1/1.14	Automatically self-righting liferafts	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
A.1/1.15	Canooped reversible liferafts	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
A.1/1.16	Float-free arrangements for liferafts (hydrostatic release units)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Thanner & Coals	DK2000	DK0200-F.002	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FORCE-Dantest CERT	0200
A.1/1.17	Liferafts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	E. Hatecke GmbH	GFF5.7M	400.053	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SBG	0736
A.1/1.18	Rigid rescue boats	<input checked="" type="checkbox"/>	<input type="checkbox"/>	E. Hatecke GmbH	RB 400	403.006	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SBG	0736
A.1/1.19	Inflated rescue boats	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
A.1/1.20	Fast rescue boats	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
A.1/1.21	Launching appliances using fall and winch (davits)	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
A.1/1.22	Float-free launching appliances for survival craft	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
A.1/1.23	Launching appliances for free-fall liferafts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	E. Hatecke GmbH	FFA5.7M	15544-00 LUX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GL	0801

In case of module G only number of certificate of conformity to be entered

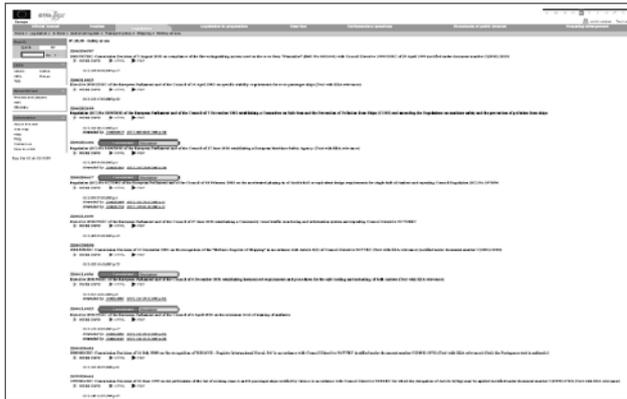
Useful Internet - Links

- Summary of EC type approvals
<http://www.mared.org>



Useful Internet - Links

- Summary of Directives concerning safety at sea
http://europa.eu.int/eur-lex/en/lif/reg/en_register_073030.html



Useful Internet - Links

- GL MED approval list, guidelines and informations
<http://www.gl-group.com/maritime/manufacturers/ecdirectives/3586.htm>

