



<b>Standard magnetic compass</b>					Directive 96/98/EC (MED) Annex A.1/4.1
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	1974 V/12(b)(i)	all ships	>= 150 GT	all voyages	(already required / fitted)
on or after 1st July 02	2000A V/19.2.1.1	all new ships	irrespective	all voyages	date of delivery

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<b>Spare magnetic compass</b>					Directive 96/98/EC (MED) Annex A.1 = a.m. above
<b>Keel laid</b>	<b>SOLAS</b>	<b>Type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	1974 V/12(b)(iii)	all ships	>= 150 GT	all voyages	(already required / fitted)
on or after 1st July 02	2000A V/19.2.2.1	new passenger	irrespective	all voyages	date of delivery
on or after 1st July 02	2000A V/19.2.2.1	all new ships	>= 150 GT	all voyages	date of delivery

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<b>Gyro compass</b>					Directive 96/98/EC (MED) Annex A.1/4.3	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>	
before 1st Sept. 1984	1974 V/12(e)	all ships	>= 1,600 GT	all voyages	(already required / fitted)	
on or after 1st Sept. 84	1974 V/12(d)	all ships	>= 500 GT	all voyages	(already required / fitted)	
on or after 1st July 02	2000A V/19.2.5.1	all new ships	>= 500 GT	all voyages	date of delivery	

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<b>Gyro-compass heading repeater (at emergency steering positions)</b>					Directive 96/98/EC (MED) Annex A.1 = N.A.	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>	
on or after 1st Feb. 92	1974 V/12(f)	all ships	>= 500 GT	all voyages	(already required / fitted)	
on or after 1st July 02	2000A V/19.2.5.2	all new ships	>= 500 GT	all voyages	date of delivery	

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<b>Gyro-compass bearing repeater</b>					Directive 96/98/EC (MED) Annex A.1 = N.A.	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>	
before 1st Sept. 1984	1974 V/12(e)	all ships	>= 1,600 GT	international	(already required / fitted)	
on or after 1st Sept. 84	1974 V/12(d)(ii)	all ships	>= 1,600GT	all voyages	(already required / fitted)	
on or after 1st July 02	2000A V/19.2.5.3	all new ships	>= 500 GT	all voyages	date of delivery	

<b>Heading control system (HCS) (formerly auto-pilot)</b>					Directive 96/98/EC (MED) Annex A.1/4.16	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>	
before 1st July 2002	- - -	- - -	- - -	- - -	(not explicit required by SOLAS)	
on or after 1st July 02	2000A V/19.2.8.2	all new ships	>= 10,000 GT	all voyages	date of delivery	



<b>Pelorus or compass bearing device</b>					Directive 96/98/EC (MED) Annex A.1 = N.A.	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>	
before 1st July 2002	1974 V/12( c )	all ships	< 150 GT	all voyages	(to be decided by flag state)	
before 1st July 2002	1974 V/12(b)(i)(4)	all ships	>= 150 GT	all voyages	(already required / fitted)	
on or after 1st July 02	2000A V/19.2.1.2	all new ships	irrespective	all voyages	date of delivery	

<b>Means of correcting heading and bearings</b>					Directive 96/98/EC (MED) Annex A.1 = N.A.	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>	
before 1st July 2002	1974 V/12(b)(ii)	all ships	>= 150 GT	all voyages	(already required / fitted)	
on or after 1st July 02	2000A V/19.2.1.3	all new ships	irrespective	all voyages	date of delivery	

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<b>Transmitting heading device (THD)</b>					Directive 96/98/EC (MED)	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>	
before 1st July 2002	---	---	---	---	(not explicit required by SOLAS)	
on or after 1st July 02	2000A V/19.2.3.5	new passenger	irrespective	all voyages	date of delivery, if gyro compass not fitted	
on or after 1st July 02 and < 500 GT	2000A V/19.2.3.5	all new ships	>= 300 GT and < 500 GT	all voyages	date of delivery, if gyro compass not fitted	

<b>Nautical charts / Electronic chart display and information system (ECDIS)</b>						
<b>Nautical charts (paper version)</b>						
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>	
before 1st July 2002	1974 V/20	all ships	irrespective	all voyages	(already required / fitted)	
on or after 1st July 02	2000A V/19.2.1.4 + 2000A V/27	all new ships	irrespective	all voyages	date of delivery	

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ECDIS				Directive 96/98/EC (MED) Annex A.1/4.30	
Keel laid	SOLAS	type of ship	size of ship	trade area	to be fitted not later than
on or after 1st July 2012	2009A V/19.2.10	new passenger	>=500 GT	international	date of delivery
before 1st July 2012	2009A V/19.2.10	passenger	>=500 GT	international	date of first survey on or after July 2014
on or after 1st July 2012	2009A V/19.2.10	new tankers	>=3000 GT	international	date of delivery
before 1st July 2012	2009A V/19.2.10	tankers	>=3000 GT	international	date of first survey on or after July 2015
on or after 1st July 2013	2009A V/19.2.10	new cargo	>=10000 GT	international	date of delivery
on or after 1st July 2014	2009A V/19.2.10	new cargo	>=3000 GT	international	date of delivery
before 1st July 2013	2009A V/19.2.10	cargo	>=50000 GT	international	date of first survey on or after July 2016
before 1st July 2013	2009A V/19.2.10	cargo	>=20000 GT	international	date of first survey on or after July 2017

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before 1st July 2013	2009A V/19.2.10	cargo	>=10000 GT	international	date of first survey on or after July 2018
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<b>Back-up arrangements for ECDIS</b>					
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
irrespective	2000A V/19.2.1.5	all ships	irrespective	all voyages	when ECDIS will be used

<b>Receiver for a global navigation satellite system / terrestrial radio navigation system</b>					
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	2000A V/19.2.1.6	all ships	irrespective	all voyages	date of first safety equipment survey
on or after 1st July 02	2000A V/19.2.1.6	all new ships	irrespective	all voyages	date of delivery

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<b>First 9 GHz radar (3cm or X-Band)</b>					
<b>Radar equipment with Automatic Radar Plotting Aid (ARPA)</b>				Directive 96/98/EC (MED) Annex A.1/4.34	
<b>Radar equipment with Automatic Tracking Aid (ATA)</b>				Directive 96/98/EC (MED) Annex A.1/4.35	
<b>Radar equipment with Electronic Plotting Aid (EPA)</b>				Directive 96/98/EC (MED) Annex A.1/4.36	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st Sep. 1984	1974 V/12(g)	all ships	>= 1,600 GT	all voyages	(already required / fitted)
on or after 1st Sep. 84	1974 V/12(g)	all ships	>= 500 GT	all voyages	(already required / fitted)
before 1st July 2002	1974 V/12(g)	passenger	irrespective	international	(already required / fitted)
before 1st July 2002	1974 V/12(g)	all cargo ships	>= 300 GT	international	(already required / fitted)
on or after 1st July 02	2000A V/19.2.3.2	new passenger	irrespective	all voyages	date of delivery
on or after 1st July 02	2000A V/19.2.3.2	all new ships	>= 300 GT	all voyages	date of delivery



<b>Second radar</b>					Directive 96/98/EC (MED) = a.m. above	
<b>A 3 GHz radar (10 cm or S-Band) or, where considered appropriate by the Administration, a second 9 GHz (3cm or X-Band) radar.</b>						
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>	
before 1st July 2002	1974 V/12(h)	all ships	>= 10,000 GT	all voyages	(already required / fitted)	
on or after 1st July 02	2000A V/19.2.7.1	all new ships	>= 3,000 GT	all voyages	date of delivery	

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<b>Automatic radar plotting aid</b>					(ARPA) Directive 96/98/EC (MED) Annex A. 1/4.5	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>	
before 1st Sep.1984	1974 V/12(j)(2)(bb)	tankers	>= 10,000 GT	all voyages	(already required / fitted)	
before 1st Sep.1984	1974 V/12(j)(3)(cc)	all ships	>= 15,000 GT	all voyages	(already required / fitted)	
on or after 1st Sep. 84	1974 V/12(j)(1)	all ships	>= 10,000 GT	all voyages	(already required / fitted)	

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on or after 1st July 02	2000A V/19.2.8.1	all new ships	>= 10,000 GT	all voyages	date of delivery
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<b>Automatic tracking aid (ATA)</b>				Directive 96/98/EC (MED) Annex A.1/4.25	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	- - -	- - -	- - -	- - -	(not required by SOLAS)
on or after 1st July 02	2000A V/19.2.5.5	all new ships	>= 500 GT	all voyages	date of delivery

<b>Second automatic tracking aid (ATA)</b>				Directive 96/98/EC (MED) = a.m. above	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	Res.A.447(XII) 7.3	all ships	>= 10,000 GT	all voyages	only required if ARPA radar equipment installed on or after 1st January 1999
on or after 1st July 02	2000A V/19.2.7.2	all new ships	>= 3,000 GT	all voyages date of delivery	date on delivery

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<b>Electronic plotting aid (EPA)</b>					Directive 96/98/EC (MED) Annex A.1/4.27
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	---	---	---	---	(not required by SOLAS)
on or after 1st July 02	2000A V/19.2.3.3	new passenger	< 500 GT	all voyages	date of delivery
on or after 1st July 02	2000A V/19.2.3.3	all new ships	>= 300 GT and < 500 GT	all voyages	date of delivery

<b>Automatic identification system (AIS)</b>					Directive 96/98/EC (MED) Annex A.1/4.32
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	2000A V/19.2.4.2.1	passenger	irrespective	international	1st July 2003
before 1st July 2002	2000A V/19.2.4.2.2	tanker	irrespective	international	first survey date on or after 1st July 03
before 1st July 2002	2000A V/19.2.4.2.3	all ships	>= 50,000 GT	international	1st July 2004

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before 1st July 2002	2000A V/19.2.4.2.4	all ships	>= 300 GT	international	first survey on or after 1st July 04 or by 31st Dec. 04 which ever occurs earlier
before 1st July 2002	2000A V/19.2.4.3	all ships	irrespective	domestic	1st July 2008
on or after 1st July 02	2000A V/19.2.4.1	new passenger	irrespective	all voyages	date of delivery
on or after 1st July 02	2000A V/19.2.4.1	all new ships	>= 300 GT	international	date of delivery
on or after 1st July 02	2000A V/19.2.4.1	all new ships	>= 500 GT	domestic	date of delivery

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Long-range identification and tracking (LRIT)				Directive 96/98/EC (MED)	
Keel laid	SOLAS	type of ship	size of ship	International voyages in GMDSS sea areas	to be fitted not later than
before 31st Dec 2008	2006A V/19-1	passenger	irrespective	A1 + A2, or A1, A2 + A3	date of first radio survey on or after 31st Dec 2008
before 31st Dec 2008	2006A V/19-1	passenger	irrespective	A1, A2 , A3 + A4	for "A1, A2, A3" date of first radio survey on or after 31st Dec 2008 for "A4" date of first radio survey on or after 1st July 2009
before 31st Dec 2008	2006A V/19-1	cargo	>= 300 GT	A1 + A2, or A1, A2 + A3	date of first radio survey on or after 31st Dec 2008

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before 31st Dec 2008	2006A V/19-1	cargo	$\geq 300$ GT	A1, A2 , A3 + A4	for "A1, A2, A3" date of first radio survey on or after 31st Dec 2008 for "A4" date of first radio survey on or after 1st July 2009
on or after 31st Dec 08	2006A V/19-1	passenger	irrespective	all GMDSS sea areas A1, A2, A3 and/or A4	at date when entering into service (on or after 31st Dec 2008)
on or after 31st Dec 08	2006A V/19-1	cargo	$\geq 300$ GT	all GMDSS sea areas A1, A2, A3 and/or A4	at date when entering into service (on or after 31st Dec 2008)

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Voyage data recorder (VDR) or (S-VDR)				Directive 96/98/EC (MED) Annex A.1/4.29	
Keel laid	SOLAS	type of ship	size of ship	trade area	to be fitted not later than
before 1st July 2002	2000A V/20.1.2	ro-ro- passenger	irrespective	international	first survey date on or after 1st July 02
before 1st July 2002	2000A V/20.1.3	passenger	irrespective	international	1st January 2004
before 1st July 2002	2000A V/20.2.1 (MSC.170(79))	cargo ships	>= 20,000 GT	international	first dry-docking
before 1st July 2002	2000A V/20.2.1 (MSC.170(79))	cargo ships	>= 3,000 GT	international	first dry-docking
on or after 1st July 02	2000A V/20.1.1	new passenger	irrespective	international	date of delivery
on or after 1st July 02	2000A V/20.1.4	all new ships	>= 3,000 GT	international	date of delivery

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<b>Speed and distance measuring device (through the water)</b>					Directive 96/98/EC (MED) Annex A.1/4.7
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
on or after 1st Sep. 84	1974 V/12(I)	all ships	>= 500 GT	all voyages	(already required, if ARPA provided)
on or after 1st July 02	2000A V/19.2.3.4	new passenger	irrespective	all voyages	date of delivery
on or after 1st July 02	2000A V/19.2.3.4	all new ships	>= 300 GT	all voyages	date of delivery

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<b>Speed and distance measuring device (over the ground in the forward and aft ship direction)</b>					Directive 96/98/EC (MED) Annex A.1/4.7
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	---	---	---	---	(not required by SOLAS)
on or after 1st July 02	2000A V/19.2.9.2	all new ships	>= 50,000 GT	all voyages	date of delivery

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<b>Echo sounding device</b>				Directive 96/98/EC (MED) Annex A.1/4.6	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 25th May 1980	1974 V/12(k)	all ships	>= 1,600 GT	international	(already required / fitted)
on or after 25th May 80	1974 V/12(k)	all ships	>= 500 GT	international	(already required / fitted)
on or after 1st July 02	2000A V/19.2.3.1	new passenger	irrespective	all voyages	date of delivery
on or after 1st July 02	2000A V/19.2.3.1	all new ships	>= 300 GT	all voyages	date of delivery

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<b>Rudder angle indicator</b>				Directive 96/98/EC (MED) Annex A.1/4.20	
<b>Propeller revolution indicator</b>				Directive 96/98/EC (MED) Annex A.1/4.21	
<b>Pitch and operational mode indicator</b>				Directive 96/98/EC (MED) Annex A.1/4.22	
<b>Thruster control indicator</b>				Directive 96/98/EC (MED)	
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st Sep. 1984	1974 V/12(m)	all ships	>= 1,600 GT	all voyages	(already required / fitted)
on or after 1st Sep. 84	1974 V/12(m)	all ships	>= 500 GT	all voyages	(already required / fitted)
on or after 1st July 02	2000A V/19.2.5.4	all new ships	>= 500 GT	all voyages date of delivery	

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<b>Rate-of-turn indicator (ROT)</b>					Directive 96/98/EC (MED) Annex A.1/4.9
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
on or after 1st Sep. 84	1974 V/12(n)	all ships	>= 100,000 GT	all voyages	(already required / fitted)
on or after 1st July 02	2000A V/19.2.9.1	all new ships	>= 50,000 GT	all voyages	date of delivery

<b>Sound reception system</b>					
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	- - -	- - -	- - -	- - -	(not required by SOLAS)
on or after 1st July 02	2000A V/19.2.1.8	all new ships	irrespective	all voyages date of delivery, if the ship's bridge is totally enclosed	date of delivery, if the ship's bridge is totally enclosed

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<b>Telephone to emergency steering position</b>					Directive 96/98/EC (MED) Annex A.1
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	1974 V/12(f)	all ships	irrespective	all voyages	(already required / fitted, if emergency steering position provided)
on or after 1st July 02	2000A V/19.2.1.9	all new ships	irrespective	all voyages	date of delivery

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<b>Daylight signaling lamp</b>					
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	1974 V/11	all ships	>= 150 GT	all voyages	(already required / fitted)
on or after 1st July 02	2000A V/19.2.2.2	new passenger	irrespective	all voyages	date of delivery
on or after 1st July 02	2000A V/19.2.2.2	all new ships	>= 150 GT	all voyages	date of delivery

Updated: 4/2010



<b>Radar reflector</b>					Directive 96/98/EC (MED) Annex A.1/4.39
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	---	---	---	---	(not required by SOLAS)
on or after 1st July 02	2000A V/19.2.1.7	all new ships	< 150 GT	all voyages	date of delivery

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<b>International Code of Signals</b>					Directive 96/98/EC (MED) Annex A.1
<b>Keel laid</b>	<b>SOLAS</b>	<b>type of ship</b>	<b>size of ship</b>	<b>trade area</b>	<b>to be fitted not later than</b>
before 1st July 2002	1974 V/21	all ships	irrespective	all voyages	(already required / fitted)
on or after 1st July 02	2000A V/21	all new ships	irrespective	all voyages	when required to carry a radio install.

Updated: 4/2010