

## MANDATORY COMPLIANCE – SOLAS (continued)

Regulation/Reference	Ship Type	Relevant Survey	Compliance Date	Age Determinant	Age of Ship	Overview of Regulation (refer to actual regulation for details)
SOLAS XII/14 Cargo Loading & Structural Standard MSC.168(79)	Ore ≥ 150m Length		1 Jul 2006	KL	All	To be exempted from the SOLAS XII/14 restrictions for sailing beyond 10 years of age with not less than 10% cargo weight per hold at 90% deadweight or above, compliance with IACS UR S12 Rev.2.1, which contains the minimum required standards for the side structures within the cargo area of single-side skin bulk carriers carrying solid bulk cargoes having a density $\geq 1,780 \text{ kg/m}^3$ , is required. Alternatively, single side skin bulk carriers which were not built in accordance with IACS UR S12 Rev.2.1, but have side shell frames and brackets renewed and or reinforced to comply with the shear and buckling strength checks at the lower bracket and at the bracket's connection to the frame as per IACS UR S31, are also exempted from SOLAS XII/14.
SOLAS III/31 Free Fall Lifeboats MSC.170(79)	Ore ≥ 500 GT		1 Jul 2006	KL	≥ 1 Jul 2006	Free-fall life boats capable of being launched over the stern and having an aggregate capacity for the total number of persons on board are required. Additionally, inflatable or rigid life rafts having an aggregate capacity for the total number of persons on board are to be provided on each side of the ship. Life rafts on one side require launching appliances.
SOLAS XII/6.5 Single Side Skin Performance MSC.170(79)	Ore ≥ 150m Length		1 Jul 2006	KL	≥ 1 Jul 2006	Bulk carriers of single side skin construction carrying cargoes of $1000 \text{ kg/m}^3$ and above are to be constructed such that cargoes can be loaded and discharged by standard loading/discharge equipment and procedures without damaging and compromising the safety of the structure; effective continuity between the side shell and hull structure is ensured; and failure of one stiffening structural member within the cargo area will not lead to consequential failure of other structural items potentially leading to the collapse of the stiffened panel.
SOLAS XII/6 Double Side Skin Spaces MSC.170(79)	Ore ≥ 150m Length		1 Jul 2006	KL	≥ 1 Jul 2006	Double-side skin spaces and seawater ballast tanks arranged in bulk carriers shall be coated in accordance with IMO's performance standards for coating. Double-side skin spaces, with the exception of top-side wing tanks, if fitted, shall not be used for the carriage of cargo. Double side skin spaces are to be fitted with permanent means of access as per MSC.151(78)/158(78) and meet the internal clearance (800mm for transverse framed system and 800mm for longitudinal framed system) and minimum overall width (1000mm).
SOLAS XII/6 Cargo Hold Flooding MSC.170(79)	Ore ≥ 150m Length		1 Jul 2006	KL	≥ 1 Jul 2006	Cargo holds are subject to flooding and meet the 1988 Load Line equilibrium requirements, unless protected by a double side skin space not less than B/5 (m) in width.
SOLAS XII/6 Stability/Loading Computers MSC.170(79)	Ore ≥ 150m Length		1 Jul 2006	KL	≥ 1 Jul 2006	A loading computer with software approved by the Administration for standard test conditions, capable of providing information on the ship's stability in the intact condition, is to be provided.
SOLAS XII/6 Cargo Loading Limits MSC.170(79)	Ore ≥ 150m Length		1 Jul 2006	KL	All	Bulk carriers of carrying cargoes $\geq 1,780 \text{ kg/m}^3$ density and not complying with the flooding of any one cargo hold and the structural standards in MSC.168(79) shall not sail after 10 years of age with any hold loaded to less than 10% of the hold's maximum allowable cargo weight when loaded to more than 90% of the ship's deadweight.
SOLAS/CONF 5/32 SLS XI-2 Security Alarm Systems	General Cargo ≥ 500 GT	SLR	1 Jul 2006	KL	< 1 Jul 2004	A ship security alarm that automatically alerts shore authorities (designated by the Contracting Government) that the ship's security is under threat or is being compromised is to be fitted onboard.