

Chapter II-1	
Construction – Structure, subdivision and stability, machinery and electrical installations	
Part A	
General	
Part A-1	
Structure of ships	
Reg. 3-2	Protective coatings of dedicated seawater ballast tanks in all types of ships and double-side skin spaces of bulk carriers Trafici accepts corrosion prevention systems approved by a recognized organization.
Reg. 3-3	Safe access to tanker bows
2	In accordance with guidelines for safe access to tanker bows, adopted by the Maritime Safety Committee by resolution MSC.62(67).
Reg. 3-4	Emergency towing arrangements on tankers Trafici accepts emergency towing arrangements approved by a recognized organization and in accordance with guidelines developed by IMO. MSC.35(63) and MSC.1/Circ.1255
Reg. 3-5	New installation of materials containing asbestos Finland has specific rules regarding asbestos. New installation is not accepted.
Reg. 3-6	Access to and within spaces in, and forward of, the cargo area of oil tankers and bulk carriers
2.3	Means of access to cargo and other spaces Trafici accepts construction and materials of all means of access approved by a recognized organization.
4.1	Ship Structure Access Manual Trafici accepts Ship Structure Access Manual approved by a recognized organization.
Reg. 3-8	Towing and mooring equipment
3	Trafici accepts towing and mooring equipment approved by a recognized organization in accordance with MSC/Circ.1175.
Reg. 3-9	Means of embarkation on and disembarkation from ships
1	In accordance with the circumstances mentioned in the Regulation as a foot note.
Reg.3-10	Goal-based ship construction standards for bulk carriers and oil tankers
3	Trafici accepts structural requirements of a recognized organization.
Reg.3-12	Protection against noise
2	Trafici accepts the view of a recognized organization if it is not in conflict with the Directive 2003/10/EY

Part B	
Subdivision and stability	
Reg. 5	Intact stability information
2	Trafi may allow the inclining test of an individual cargo ship to be dispensed with, provided basic stability data are available from the inclining test based on at least two inclined sister ships. On condition that reliable stability information for the exempted ship can be obtained from such basic data, as required by regulation 5-1. The sister ships shall all be built at the same shipyard.
Reg. 7-2	Calculation of the factor S_i
5	Trafi accepts the equalization devices and their controls approved by a recognized organization.
Reg. 13	Openings in watertight bulkheads below the bulkhead deck in passenger ships
9.2	Number and arrangements of doors and their controls Trafi accepts arrangements approved by a recognized organization.
11.2	Special considerations for tunnels piercing watertight bulkheads Trafi accepts the construction approved by a recognized organization.
Reg. 15	Openings in the shell plating below the bulkhead deck of passenger ships and the freeboard deck of cargo ships
2	Trafi accepts the construction approved by a recognized organization.
8.5	Trafi accepts pipes of steel or other equivalent material approved by a recognized organization.
Reg. 16	Construction and initial tests of watertight doors, sidescuttles, etc.
1.1	Trafi accepts design, materials and construction of all watertight doors, sidescuttles, gangway and cargo ports, valves, pipes, ash-chutes and rubbish-chutes approved by a recognized organization.
Reg.16-1	Construction and initial tests of watertight decks, trunks, etc.
1	Trafi accepts construction and initial tests of watertight decks, trunks, etc. approved by a recognized organization.
Reg. 22	Prevention and control of water ingress, etc.
4	Through individual decision, Trafi may accept a watertight door on passenger ships to remain open during navigation following the requirements in MSC.1/Circ.1380. For Trafi to permit a door to remain open during navigation on a cargo ship, the ships survivability after damage with the door open must be demonstrated through a floatability assessment. No specific damage stability criteria need to be complied with, but the ship must remain floating in the final equilibrium. Further no electrical equipment or electrical components necessarily for the operation of the watertight door is allowed to be submerged, unless the enclosure of such electrical components full fills the requirements in SOLAS, chapter II-1, regulation 13.7.6. Application is to be sent to Trafi by the RO. Application shall include the floatability assessment referred to above, in addition to the opinion of the RO on the issue.

Part C
Machinery general

Important!

Trafi require that classification society do not verify or certify any unconventional arrangements which is not covered by the regulation or standards, consultation shall be done with the Trafi.

Reg. 26	General
2, 3 and 6	MSC.1/Circ.1467
4	MSC/Circ.1176
11	MSC/Circ.1176 and MSC.1/Circ.1197
Reg. 27	Machinery
5	As MSC.1/Circ.1345 except that only alarm and slow down procedures is permitted for single propulsion engines.
Reg. 28	Means of going astern
2	MSC.1/Circ.1416
3	MSC.1/Circ.1416
Reg. 29	Steering gear
1	MSC.1/Circ.1416
2.1	MSC.1/Circ.1416
2.2	Fatigue criteria shall be applied for design of piping and components, taking into account pulsating pressures due to dynamic loads.
3	MSC.1/Circ.1416
3.2	MSC.1/Circ.1425
6.1	MSC.1/Circ.1416 MSC.1/Circ.1398
6.3	Steering gears, other than of the hydraulic type is accepted by Trafi under condition that the regulations 29.1-29.2.1- 29.3 - 29.4 - 29.5 and 29.6.1 is fulfilled.
7.2	MSC.1/Circ.1398
7.3	MSC.1/Circ.1398
14	MSC.1/Circ.1416
15	MSC.1/Circ.1398
16	MSC.1/Circ.1398
17.2	For tankers of 10 000 gross tonnage and above but less than 100 000 tonnes deadweight the steering gear shall at least fulfil the requirements in resolution A.467(XII).
Reg. 30	Additional requirements for electric and electro hydraulic steering gear
4	Trafi may permit reduction from requirements in paragraph 3 if enough protective measure has been done, and the requirements in regulation 29.5 and 29.7.3 Are fulfilled.
Reg. 31	Machinery controls
2.7	Case by case.
Reg. 32	Steam boilers and boiler feed systems
1	MSC.1/Circ.1286
Reg. 35-1	Bilge pumping arrangements

3.7.2	Trafi accepts decision and applicable rules from a recognised classification society.
3.9	Trafi accepts decision and applicable rules from a recognised classification society.
Reg. 36	Protection against noise In order to comply with the regulation for protection against noise, Code on Noise Levels on Board Ships shall to be fulfilled.
Part D Electrical installation	
Reg. 40	General
2	In addition to the requirements in part D, shall production, manufacturing and maintenance of electrical installations be in accordance with the IEC 60092 and a recognised organisation rules. Appropriate steps shall be taken to ensure uniformity in the implementation and application of the provisions of this part in respect of electrical installations.
Reg. 41	Main source of electrical power and lighting system
4	Equivalent arrangements must be approved by Trafi.
Reg. 42	Emergency source of electrical power in passenger ships
1.3	Trafi recommends that the emergency source of power and the associated equipment shall not be located in the same vertical zone as main source of power or main switchboard. Furthermore the emergency source of power and the associated equipment shall be placed, as far as practicable, to the ships centreline, if possible within the B/5, easy access to the emergency equipment is essential.
2.7	Trafi may permit deviation from this paragraph.
Reg. 43	Emergency source of electrical power in cargo ships
1.2-3	Trafi recommends that the emergency source of power and the associated equipment shall not be located in the same vertical zone as main source of power or main switchboard. Furthermore the emergency source of power and the associated equipment shall be placed, as far as practicable, to the ships centreline, if possible within the B/5, easy access to the emergency equipment is essential.
2.6.2	Trafi may permit deviation from this paragraph.
Reg. 44	Starting arrangements for emergency generating sets
1	Vessels operating in cold areas shall be equipped with the heating equipment to ensure the quick start of the emergency generator.
2	Starting functions within the mentioned time must be demonstrated and documented.
Reg. 45	Precautions against shock, fire and other hazards of electrical origin
1.2	For portable electrical equipment used in confined or wet areas with particularly high risk of conductivity, apply the following: 1- The equipment must be supplied via SELV circuit or 2- The equipment is supplied via isolating transformer and only one

	equipment is connected to each secondary circuit.
2	Exposed live parts having voltages to earth exceeding 50 V AC/DC is not allowed. Trafti recommends that installations less than 50 V AC/DC are at least IP2X, as far as practicable.
3.3	The system shall be approved by Trafti
4.1	Any other arrangements shall be approved by Trafti.
4.3.2	Any other arrangements shall be approved by Trafti.
5.1	Trafti accepts decision and applicable rules from a recognised classification society
5.2	Trafti recommends that all cables are of approved type according to IEC 60331 and IEC 60332. The use of other type of cables shall be approved by Trafti.
5.3	Trafti will follow the Recommendations of MSC/ Circ. 808 in ro-ro passenger ships.
5.4	Trafti recommend IEC 60331 and IEC 60332
6.1	Any equivalent arrangements must be approved by Trafti.
9.3	Accumulator batteries with charging power under 0,2 kW and which do not release flammable or otherwise dangerous vapors when charging and discharging may be placed in accommodation and service spaces if they are protected from spread of flame, water, mechanical damage, and falling objects.
10	Trafti requires that the installations fulfils the standard IEC 60079
11	In case that the installation in hazardous locations is not covered by the standard IEC 60092-502, a risk assessment shall be sent to Trafti for approval.

PART E	
Additional requirements for periodically unattended machinery spaces	
Reg. 48	MSC.1/Circ.1424
Reg. 49	Control of propulsion machinery from the navigation bridge
5	Trafti considers it impracticable if proven.
Reg. 51	Alarm Systems
2	Any equivalent arrangements must be approved by the Trafti. An application form shall be sent to Trafti for approval.
Reg. 53	Special requirements for machinery, boiler and electrical installations
1	RO class notation satisfactory.
2	Trafti may waive the requirements for SOLAS ship with a gross tonnage below 1600 if the requirement is proved impracticable.
PART F	
Alternative design and arrangements	
Reg. 55	Alternative design and arrangements
	MSC.1/Circ.1212 and MSC.1/Circ.1455