

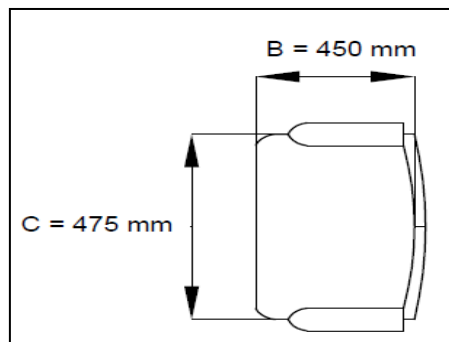
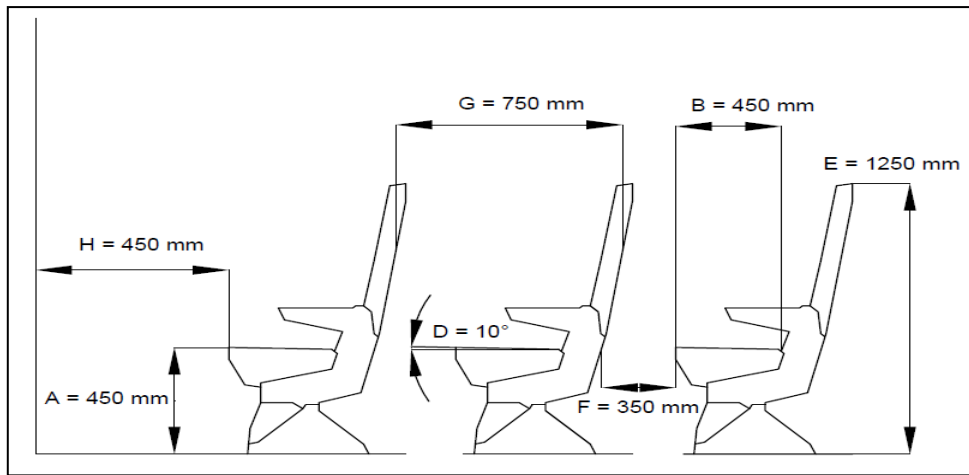
 QUALITY MATTERS	SHIPS CLASSIFICATION MALAYSIA SCM CIRCULAR TO SHIPOWNERS, SHIPYARDS, MASTERS, AGENTS AND RELEVANT INTEREST PARTIES		  <small>MS ISO 9001 REG. NO. AR2998</small>
	Issue No	02/2015	Issue Date
TITLE	SEATING ARRANGEMENT FOR PASSENGER SHIPS		

To All Owners, Managers, Ship Builder and Designer of Malaysian Vessels,

1. New requirements is enforced with regards to the seating arrangement which applicable to **all new passenger ferries built from 2015 onwards** regardless of any construction materials.
2. Related parties must ensure that the new passenger ship is constructed in accordance to the requirement stipulated by MARDEP.
3. A fixed or adjustable seat complete with headrest shall be provided for each passenger and to be designed such as to minimize the possibility of injury and to avoid trapping of the occupants particularly in emergency conditions.
4. The installation of seats shall be such as to allow adequate access to any part of the ship space. In particular, they shall not obstruct access to, or use of, any essential or emergency equipment or required means of escape.
5. Safety belt shall be provided for front row seats for which the ship may be operated unless it is demonstrated to the satisfaction of the Director General of Marine that they are unnecessary.
6. All seats shall be fitted with adjustable armrest made of a soft material and have rounded edges. It shall be fitted so it will give enough comfortable support and suitable size to allow easy entrance and exit from the seat.
7. Rows adjacent to an aisle that lead to emergency exits on the left and right sides (cross aisle), the seats rear of the aisle are referred to as "seats near emergency exits."
8. Minimum seats dimension:
 - a) The vertical height of the highest point of the seat pan's front edge is 450 mm \pm 25 mm above the deck.
 - b) The depth of the seat pan is 450 mm \pm 25 mm
 - c) The width of the seat pan is at least 475 mm wide
 - d) The seat pan angle of inclination from the horizontal shall be not more than 10 degrees.
 - e) The vertical distance between the top of the backrest from the floor deck is at least 1250 mm
 - f) Horizontal distance of at least 350 mm shall be provided from the front edge of the seat pan and the seat back directly to the front
 - g) Horizontal distance of at least 750 mm shall be provided between the edge of the seat's backrest and the edge of the seat's back rest directly to the front of the passenger for 3 seats arranged in a row
 - h) Horizontal distance of at least 450 mm shall be provided from the seat pan edge to a wall or bulkhead directly in front.

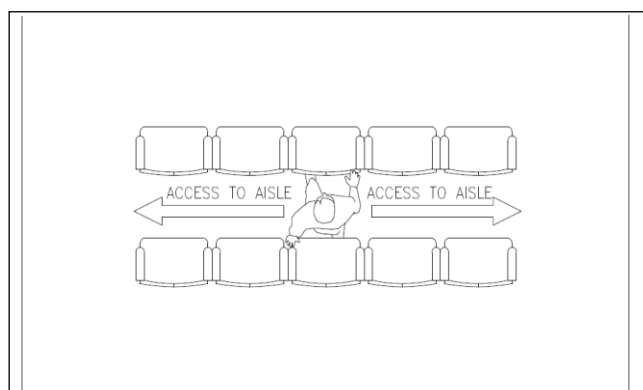


9. Seating layout:

- i. The number of seats in a row at the each side of the ferry shall be not more than 3 units.
- ii. Middle seats row can be arranged as number of seats for passenger crossing to aisle shall be not more than 2 units.
- iii. Example:

Seats formation can be arranged as below:

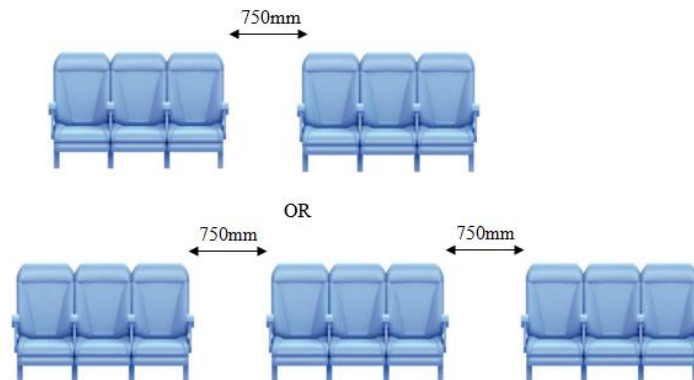
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10. Aisles

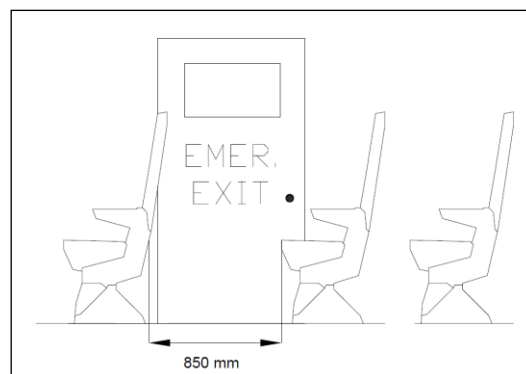
Passenger spaces shall be served by aisles or other unobstructed floor areas providing access to exits so that the capacity of aisles and cross aisles shall be adequate to serve all persons for whom they provide a primary path of travel to an exit. Aisles shall have a minimum width of 750mm measure from side to side of seats or seat to wall.

A means of egress shall be continuously maintained free of all obstructions or impediments to full instant use in case of fire or other emergency cases. A lock, fastening device or barrier shall not be installed or used on a means of egress in a manner that will prevent or hinder free escape from the inside of a vessel.



11. Emergency exit between seats

Seat located between emergency exits shall be arranged as horizontal distance of at least 850 mm between the edge of the seat's backrest and the edge of the seat's back rest directly to the front of the passenger. The figures are as follows:



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