

## **Strait Shipping Ltd**

### **Dangerous Goods Carriage Requirements**

The purpose of this guide is to assist shippers in ensuring that all Dangerous Goods are stowed on vehicles in a manner that complies with the International Maritime Dangerous Goods Code (IMDG Code) for carriage of Dangerous Goods by sea.

Shippers are reminded that there may be variations between the land and maritime regulations, but whenever Dangerous Goods are loaded on to a vessel the IMDG Code requirements must be fully satisfied.

All vehicles carrying Dangerous Goods must be correctly placarded, which requires a placard for each class carried, to be displayed at both the front and rear of each vehicle.

Strait Shipping Staff have been trained in the requirements for sea transport of Dangerous Goods and will be please to offer any assistance required to further explain the legal requirements that will ensure that the acceptance of your cargo is not jeopardised.

To further assist in the loading of vehicles to the IMDG Code we have attached the separation / segregation tables and an explanation of terms used.

It must be noted that in the case of a requirement for “Separated from” this means that for a vehicle carried on deck a separation of 6 metres is required but for the same vehicle to be carried on the main deck (within the ships hull) a 12 metre separation between the goods is required.

Please forward to Strait Shipping the load notification sheet at the earliest opportunity, this will enable the load to be checked against the IMDG Code requirements and will enable any adjustments that maybe required to be made in good time and will ensure that the load will not be declined for carriage.

Attached to these notes are our Strait Shipping Reference sheets and stowage category table to assist you in loading your vehicles to meet the IMDG Codes requirements.

**Please note:** Stowage category will determine which ship, deck or sailing and the stowage separations that are required. An example of this is that of a vehicle carrying an item that requires “on deck” stow and requires “Separated from” means that it can be loaded to within 6 metres of the other item. But if permitted below decks then a 12 metre separation is required.

The following tables are to be used on Ro-Ro vessels in determining the correct stowage with in the vehicles.

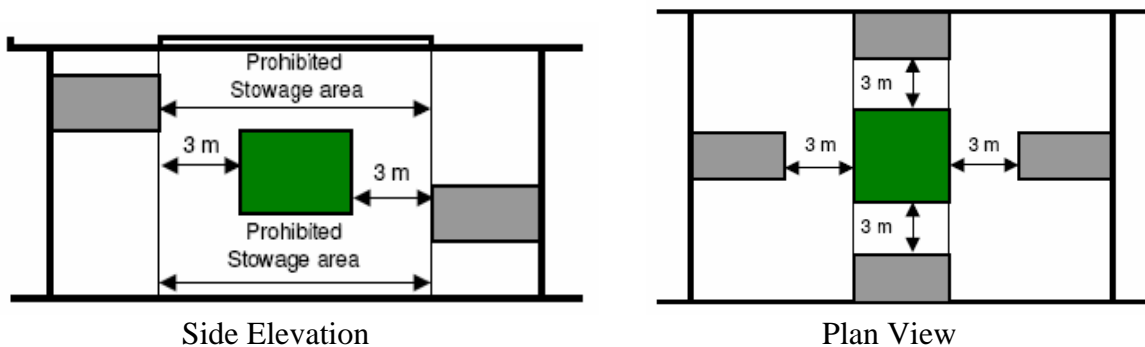
As in most cases the vehicles are curtain-siders please load to “open versus open” If the goods are in a shipping container please notify Strait Shipping as all vehicles will be treated as “open” unless prior notice is given.

The following tables are to be used on Ro-Ro vessels in determining the correct stowage.

Segregation Requirement		Horizontal					
		Closed Versus Closed		Closed Versus Open		Open Versus Open	
		On Deck	Under Deck	On Deck	Under Deck	On Deck	Under Deck
"Away From" <b>1</b>	Fore & Aft	No Restriction	No Restriction	No Restriction	No Restriction	At least 3 metres	At least 3 metres
	Athwartships	No Restriction	No Restriction	No Restriction	No Restriction	At least 3 metres	At least 3 metres
"Separated From" <b>2</b>	Fore & Aft	At least 6 metres	At least 6 metres or one bulkhead	At least 6 metres	At least 6 metres or one bulkhead	At least 6 metres	At least 12 metres or one bulkhead
	Athwartships	At least 3 metres	At least 3 metres or one bulkhead	At least 3 metres	At least 6 metres or one bulkhead	At least 6 metres	At least 12 metres or one bulkhead
"Separated by a complete compartment or hold from" <b>3</b>	Fore & Aft	At least 12 metres	At least 24 metres + one deck	At least 24 metres	At least 24 metres + one deck	At least 36 metres	Two decks or two bulkheads
	Athwartships	At least 12 metres	At least 24 metres + one deck	At least 24 metres	At least 24 metres + one deck	At least 36 metres	Prohibited
Separated longitudinally by an intervening compartment or hold from" <b>4</b>	Fore & Aft	At least 36 metres	Two bulkheads or at least 36 metres + two decks	At least 36 metres	At least 48 metres including two bulkheads	At least 48 metres	Prohibited
	Athwartships	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited	Prohibited

**1** Away from:

Effectively segregated so that the incompatible goods cannot interact dangerously in the event of an accident but may be carried in the same compartment or hold or on deck provided a minimum horizontal separation of 3 metres, projected vertically is obtained.

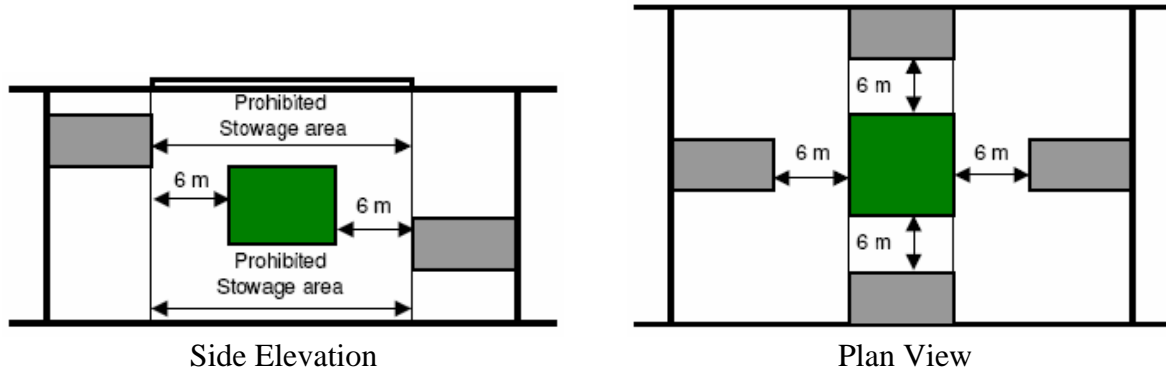


**2** Separated from:

When checking “separate from” note that a six metre separation is required for on deck but a twelve metre separation is required when stowed below

deck. (Main deck stowage). If the goods can't be separated by more than six metres or by one bulkhead then the vehicle concerned must be loaded on the top deck (open deck). A notation on the manifest will need to be added to draw attention to this situation.

If in different compartments or holds when stowed under deck provided the intervening deck is resistant to fire and liquid, a vertical separation, i.e. in different compartments, may be accepted as equivalent to this segregation.



**3 Separated by a complete compartment or hold from:**

This can be either a vertical or a horizontal separation. If the intervening decks are not resistant to fire and liquid, then only a longitudinal separation, i.e. by an intervening complete compartment or hold, is acceptable.

For "on deck" stowage on a Ro-Ro vessel, this segregation means separation by a distance of at least 36 metres horizontally. A distance of 12 metres can be applied if one package is stowed "on deck", and the other one is in an upper compartment provided that one of the two decks must be resistant to fire and to liquid.

**4 Separated longitudinally by an intervening complete compartment or hold**

Vertical separation alone does not meet this requirement.

Between a package "under deck" and one "on deck" a minimum distance of 24 metres including a complete compartment must be maintained.

On a Ro-Ro vessel, goods that require this separation can only be carried as "on deck" stow, this means a separation by a distance of at least 48 metres longitudinally only.

For shore-based personnel in determining separations within the truck "away from" **1** and "separate from" **2** are the most relevant areas of concern.

The ships crew will normally deal with the remaining two **3** & **4** but in some cases they will need to be considered as two trucks may be required to carry the goods so as to comply with the IMDG Code.



In each case the notification must legally contain the following information:

- UN number
- Proper shipping name
- Class and any sub risk
- Packing group (Flash point for a flammable item)
- Signed and dated by the authorised person responsible for the loading.

The notification should also contain:

- A stowage plan for the vehicle
- The flash point of any flammable goods.
- Quantity of the goods
- Freight Company and fleet identification / number
- Date, time and direction of travel
- Contact number for the driver or authorised person.

### Stowage Categories

Category		Stowage
<b>A</b>	Cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to one passenger per three metres of overall length whichever is the greater.	On deck or under deck
	Other passenger ships in which the limiting number of passengers carried is exceeded	On deck or under deck
<b>B</b>	Cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to one passenger per three metres of overall length whichever is the greater.	On deck or under deck
	Other passenger ships in which the limiting number of passengers carried is exceeded	On deck only
<b>C</b>	Cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to one passenger per three metres of overall length whichever is the greater.	On deck only
	Other passenger ships in which the limiting number of passengers carried is exceeded	On deck only
<b>D</b>	Cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to one passenger per three metres of overall length whichever is the greater.	On deck only
	Other passenger ships in which the limiting number of passengers carried is exceeded	Prohibited
<b>E</b>	Cargo ships or passenger ships carrying a number of passengers limited to not more than 25 or to one passenger per three metres of overall length whichever is the greater.	On deck or under deck
	Other passenger ships in which the limiting number of passengers carried is exceeded	Prohibited