

CARGO SECUREMENT IN SIDED VEHICLES

Compliance Guidance

DIRECTION

Any individual pallet(s) or individual unpalletized articles of cargo each less than 100 kg (220 lbs) do not require securement.

Total weight of unsecured individual articles or pallets (each less than 100 kg) and/or individual articles of cargo (each less than 100 kg) must not exceed 2268 kg (5000 lbs). Any cargo in excess of the 2268 kg total threshold would then require additional securement.

Pallet(s) or article(s) of cargo that are greater than 100 kg or any article(s) of cargo on wheels must be secured as follows:

(a) Forward Securement

- (1) Pallets that are loaded continuously from the front-end wall without interruption require no further forward securement.
- (2) Pallets that are not loaded against the front-end wall or not in contact with other pallets in the forward direction with cumulative lengthwise space greater than 20 cm (8") require additional forward securement. Stable or unstable pallets must be secured at or above mid-height. Floor blocking or friction mats may be used only in combination with other securement. In addition, unstable pallets may require a separator sheet(s) between the pallets and the securement.
- (3) Pallets that are loaded with cumulative lengthwise space greater than 20 cm (8"), and that are not prevented from moving forward by the front-end wall or in contact with other pallets or do not have additional cargo securement devices present are not secured. Vehicle placed out-of-service.

(b) Lateral Securement

- (1) First determine the total unfilled cumulative crosswise space for a pallet or for the group of pallets in a crosswise row from sidewall to sidewall.
 - (a) For space no larger than 20 cm (8") no additional lateral securement is required.
 - (b) For space larger than 20 cm (8") additional securement is required.
 - (1) For stable pallets (that will not move or topple off of the pallet), additional securement may be by mechanical blocking, interlocking, floor blocking, air bags or void fillers.

- (2) For unstable pallets, additional securement may be air bags or void fillers.
 - (c) Pallets that are loaded with cumulative crosswise space greater than 20 cm (8"), and that are not prevented from moving laterally by any means or method, are not secured. Vehicle placed out-of-service.
- (c) Rearward Securement
- (a) For stable pallets (that will not move or topple off of the pallet)
 - (1) Additional securement is not required if the distance between the last pallet(s) and the door, or the last rear pallet between two groups of pallets, is less than the depth of the pallet lengthwise in the vehicle.
 - (2) Additional securement is required if the distance between the last pallet(s) and the door, or the last rear pallet between two groups of pallets, is greater than the depth of the pallet lengthwise in the vehicle or when using a mechanically blocking method to secure pallets laterally. Stable pallets must be secured either at the floor with floor blocking or friction mats, or secured at or above their mid-height by any appropriate devices.
 - (3) Stable pallets that are farther away from the doors than the depth of the pallet, or when using a mechanically blocking method to secure pallets laterally, and that are not prevented from movement rearward, are not secured. Vehicle not placed out-of-service however will require securement before continuing, or due to special cargo handling or equipment considerations must stop for securement at the nearest available appropriate facility.
 - (b) For unstable pallets (that could slide or topple off the pallet or stacked articles)
 - (1) Additional securement is required if the distance between the last pallet(s) and the door is less than the height of the last pallet(s). Unstable pallets may be secured at the floor with floor blocking or friction mats, but must be secured at or above their mid-height to prevent tipping (with or without floor level securement).
 - (2) Unstable pallets that are not prevented from movement rearward are not secured. Vehicle not placed out-of-service however will require securement before continuing, or due to special cargo handling or equipment considerations must stop for securement at the nearest available appropriate facility.