

## About the Port Load Chart

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The Port Load Chart is intended to provide guidance on the maximum allowable loads permitted on wharves, piers and building floors at Victorian Ports Corporation (Melbourne) owned facilities. The details are correct at time of publication but may be subject to variation.

## Revisions and Updates

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The VPCM Port Load Chart will be revised and updated on a regular basis. The latest version will be on the VPCM web site [www.vicports.vic.gov.au](http://www.vicports.vic.gov.au). It is the responsibility of persons using this chart to ensure that they are referring to the latest version.

## Load Categories

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The Port Load Chart is only applicable to the standard load categories defined below and in the Standard Loads Diagram – Attachment 1.

### Single Axle Load

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The maximum single axle load (except fork lifts) is shown in Column A of the Chart. Axles must be a minimum of 2.4 m apart to be considered single axles. (Note: VicRoads maximum 9 tonne for standard road registered vehicles)

### Tandem Axle Group Load

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The maximum tandem axle group load is shown in Column B of the Chart. Axles must be a minimum of 1.2 m apart within the group. (Note: VicRoads maximum 16.5 tonne for standard road registered vehicles)

### Tri-Axle Group Load

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The maximum tri-axle group load is shown in Column C of the Chart. Axles must be a minimum of 1.2 m apart within the group. (Note: VicRoads maximum 20 tonne for standard road registered vehicles)

# Port Load Chart

## Forklift Front Axle Load

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The maximum load on a forklift front axle is shown in Column D of the Chart. Forklifts may exceed the loads shown in Column A, provided the following conditions are met:

- The forklift keeps at least 6 m from all other vehicles except the one that is being loaded.
- The maximum axle load does not exceed the amount shown in Column D.

## Uniformly Spread Load

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The maximum uniformly spread load from cargo stacking over a large area is shown in Column E. This may be exceeded over a small area provided the equivalent axle group load is not exceeded.

## Cranes

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The maximum crane outrigger loads, with load spreading pads 1 m x 1 m, shall not exceed half of the maximum load detailed in Column D. Higher loads may be approved for larger approved load spreading devices, refer to Non-Standard Loads.

## General

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The above axle loads are based on dual tyred wheels (i.e., 4 tyres per axle). Where single tyred wheels (i.e., 2 tyres per axle) are used, then axle loads shall not exceed the registered load capacity.

Axle loads include the weight of wheels etc. Where spacing is less than the above limits, allowable loads shall be reduced proportionately.

## Non-Standard Loads

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The loads shown in the table below are standard design loads for the respective areas. For further information, including the non-standard load approval process including allowable loading in the remaining areas within VPCM, please contact the VPCM Assets & Infrastructure Department on (03) 8347 8329 during business hours. Generally three (3) business days' notice is required for non-standard load approval.

However, depending on the complexity, approval could take up to two weeks (to assess the loading by a third party engineering consultant appointed by VPCM) after all relevant information is obtained, where applicable.

# Port Load Chart

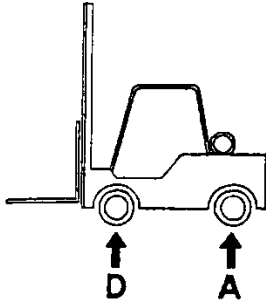
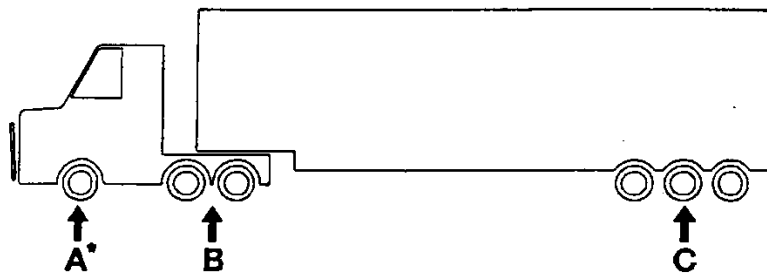
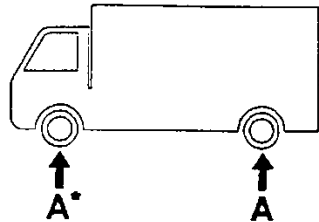
## Port Load Charts

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The maximum standard loads permitted on Station Pier are shown in the following Port Load Chart.

| LOCATION                 | COL. A<br>SINGLE<br>AXLE<br>(T) | COL. B<br>TANDEM<br>AXLE<br>(T) | COL. C<br>TRI-<br>AXLE<br>(T) | COL. D<br>FORK<br>LIFT<br>(T) | COL. E<br>SPREAD<br>LOADS<br>(T/m <sup>2</sup> ) |
|--------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|--|
| <b>STATION PIER</b>      |                                 |                                 |                               |                               |  |
| Central Roadway          | 9                               | 16.5                            | 20                            | 9                             | 1.0  |
| Timber Areas             | 9                               | 9                               | 9                             | 9                             | 0.5  |
| East and West Pier Areas | 14                              | 20                              | 20                            | 16                            | 1.0  |

## Standard Load Diagram



**A = SINGLE AXLE**

**B = TANDEM AXLE**

**C = TRI-AXLE**

**D = FORK LIFT**

**E = UNIFORM LOAD**

**\* = AXLES WITH ONLY 2 TYRES MAY BE LIMITED - SEE NOTES.**

