



DNVFRS - SHIPPING CONTAINER REQUIREMENTS

A Fire Safety Plan is required in accordance with BC Fire Code 4.1.5.5 and 2.8.

Shipping Containers Markings

- UN Placards for all stored Dangerous goods are to be visible from two sides.
- The container shall be clearly marked with a contact name and emergency telephone number, displayed in a manner that is legible and visible from a distance of 10 meters.
- The container and contents must be identified in the Fire Safety Plan.

Container Safety Features

The following safety features must be in place before any shipping container is used for storage:

- One ventilation opening within 150 mm of the floor in the container door primarily used for opening.
- One ventilation opening within 150 mm from the top of the container on the opposite end of the doors for cross-ventilation.
- The upper ventilation opening must not be directed toward a structure.
- Ventilation openings must remain unobstructed at all times and kept free of internal and external debris.
- Additional ventilation openings must meet the following minimum requirements:
 - Two openings measuring 0.3 m × 0.3 m for containers 6 m or less in length.
 - Two openings measuring 0.5 m × 0.5 m for containers over 6 m in length.
 - All openings must be covered with open grate wire mesh providing more than 50% free area.
 - The upper opening must also be equipped with a wind vent device designed to generate a venturi effect during low wind speeds.
- Where heavier than air flammable or combustible liquids are stored, an additional low-level ventilation opening should be installed at the end opposite the doors.
- Alternate engineered solutions will be considered.

Notes

- DNV permits may be required.
- Standard environmental vents built into shipping containers are not acceptable for land-based storage. These vents are designed only for passive air movement due to atmospheric changes and do not provide adequate airflow.

Important Note: All requirements in this guideline must be met in full and must also comply with the District of North Vancouver Fire Bylaw.