

Special containers for storing drums with radioactive waste

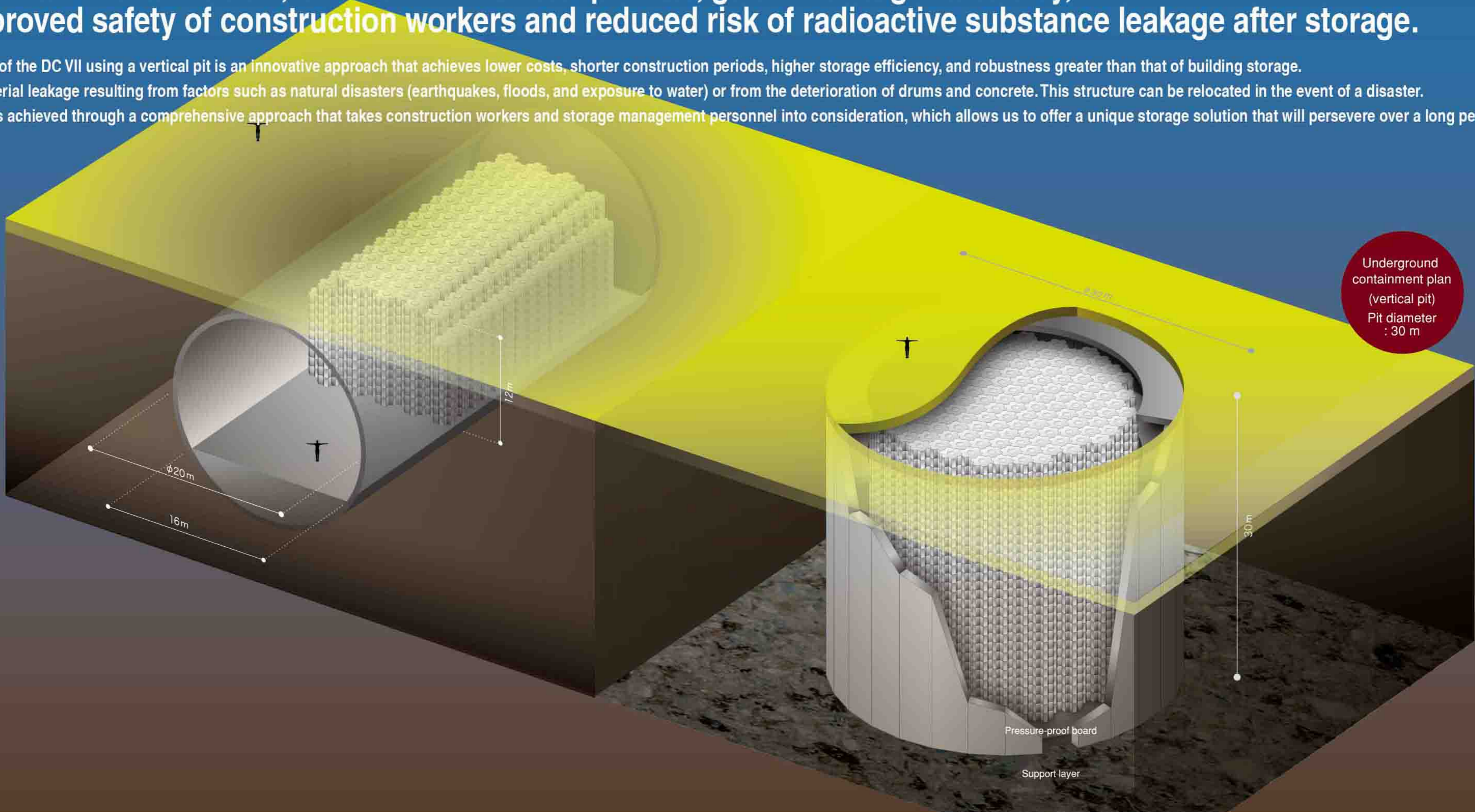
**DCVII**

**DECOPOD DC Seven/VII**

# The underground containment plan of the DCVII offers a storage solution for the next generation, realizing benefits such as lower costs, shorter construction periods, greater storage efficiency, as well as the improved safety of construction workers and reduced risk of radioactive substance leakage after storage.

The underground containment plan of the DC VII using a vertical pit is an innovative approach that achieves lower costs, shorter construction periods, higher storage efficiency, and robustness greater than that of building storage. It is virtually free of radioactive material leakage resulting from factors such as natural disasters (earthquakes, floods, and exposure to water) or from the deterioration of drums and concrete. This structure can be relocated in the event of a disaster. Furthermore, a high level of safety is achieved through a comprehensive approach that takes construction workers and storage management personnel into consideration, which allows us to offer a unique storage solution that will persevere over a long period of time.

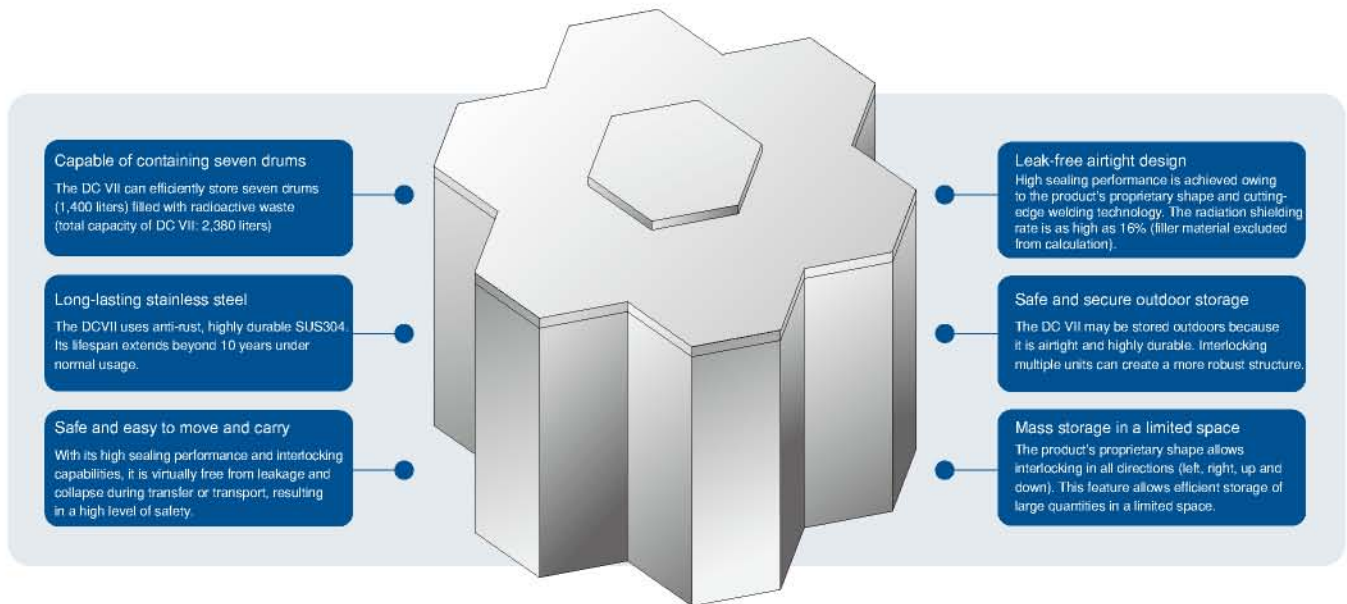
Underground containment plan (horizontal pit)  
Pit diameter : 20 m



Underground containment plan (vertical pit)  
Pit diameter : 30 m

# Ensures the safe and highly efficient storage of ever-increasing radioactive waste

The DECOPOD DC VII is a special container for ensuring the safety of drums that contain radioactive waste. By incorporating all features of the DECOPOD, including high sealing performance, high durability, and interlocking capabilities, it prevents leakage caused by rust and deterioration and allows for storage of more radioactive waste within a limited space.



1

The DECOPOD DC VII is a special container capable of storing seven drums that contain radioactive waste.



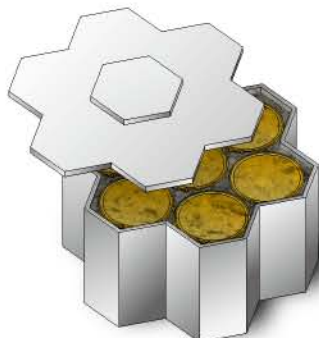
2

The proprietary shape of the DC VII secures the individual space of each drum within the container. This allows for the smooth insertion of drums into the container.



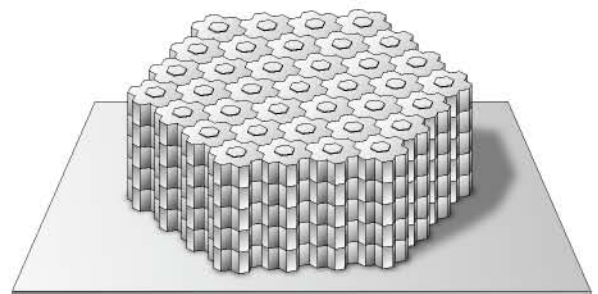
3

The DECOPOD DC VII is capped after placing seven drums and some filler material inside. At this point, 16% of radiation from each drum can be shielded (filler material excluded from calculation).



4

DC VII can be interlocked in all directions (left, right, up and down). This allows for efficient storage in a small space without the use of pallettes. The interlock prevents virtually all collapse, whether partial or total.



## Specifications of the DECOPOD DC VII

Size: 1,900 (W) × 1,974 (D) × 1,045 (H) Total capacity: 2,380 L Weight: 430 kg Material: SUS304※

Board thickness: 3 mm Drum storage capacity: 200 L drum × 7 = 1,400 L

Radiation shielding rate: 16% (for SUS container only; filler material excluded from calculation)

Footprint: 2.63 m<sup>2</sup> per unit

※About SUS304: This is an austenite material with a 8-10.5% nickel and 18-20% chromium content.

This stainless steel grade is widely used because of its excellent heat resistance with superb corrosion resistance, weldability, and mechanical properties.

