

HYBRID PROTECTED TANK



ABE NIKKO KOGYO CO., LTD.

Highly Protected Fuel Tank : Anti-Tsunami, Anti-Shock

【Background】

Right after the Great East Japan Earthquake, fuel facilities for fishing boat in Kesenuma were severely damaged by the tsunami. Most of all fuel facilities were suffered, and fuel oil in the tanks leaked into the bay.

By this experience, new facilities were required to maintain the fuel supply function essential for fuel of fishing boats, even in the event of tsunami.

For this reason, it was decided to construct fuel facilities with strong structure against earthquakes and tsunami.

Fuel Facilities Damaged by Tsunami



PC Tank that Withstood Tsunami



Countermeasure against Tsunami — Steel Fuel Tank with Prestressed Concrete Wall

【Characteristic】

◆Resistance to Earthquakes, Tsunami

Cylindrical prestressed concrete tank has excellent resistance to earthquake
Hardly swept away by the tsunami with its own weight

◆Resistance to External Shock

High resistance to shock by floating debris (wood, containers, ships, etc.)

◆Resistance to Fire

Almost no fire be spread, even if fire occurs around

◆Versatility

Same piping method, lubrication method as conventional steel tank

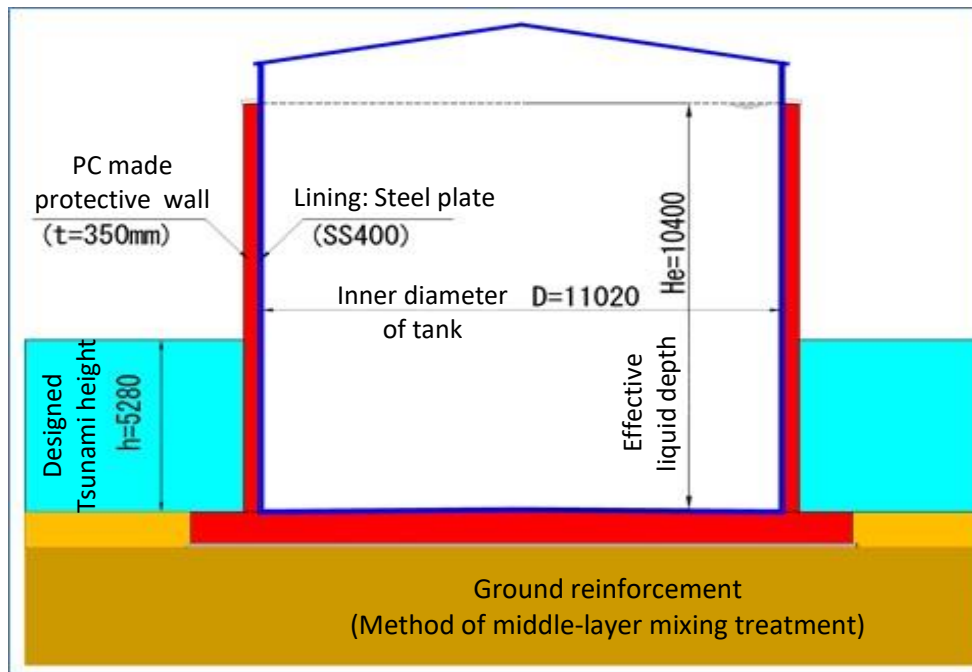
◆Japan's First Achievement

Japan's first method to cover the wall of ground-type steel fuel tank with PC

"Welcome back !"



【Structure】



【Construction Procedure】

(1) Construction of Bottom Slab



(2) Construction of Steel Tank



(3) Construction of PC Wall



Photo of Completion



Photo of Completion (Panoramic View)

