

Tsunami Proof Project

By Grattan Rutherford in 6.2



(looped at 3X speed)



Floating ship keeps pace with edge of waterfront (1)

How and Where a Tsunami occurs

- The most tsunami prone area are the cities around the ring of fire.
- The ring of fire is all the cities on a fold line where earthquakes and tsunamis are most likely to occur.
- A tsunami is a series of very long ocean waves that are hundreds of kilometres fast and long(usually) They are caused by other natural disasters such as:
 - Earthquakes
 - Landslides
 - Volcanic eruptions
 - Explosions
 - Meteorites

Recent / Major Examples of a Tsunami

- 11 March 2011 Near the East Coast of Honshu Japan a Tsunami killed over 158 90 people. People died from not only the wave but from the nuclear gas because the tsunami knocked down a nuclear plant it was the most deadly tsunami and it had the most fatalities.
- The boxing day tsunami in Thailand killed 8212 people but it also hit other countries like India, Malaysia, Indonesia and Vietnam but it was not as destructive.
- On July 10 in Alaska in 1958 there was a wave that was 528 metres high but it only killed 3 people it was the highest wave ever recorded.



Indonesia
Tsunami

Interesting / Key Facts about a tsunami

- You know that a tsunami is coming if all the water in the sea goes really far out and that's only if you don't hear it in the news
- Tsunami waves can reach heights of over 100 ft.
- About 80% of tsunamis happen within the Pacific Ocean's "Ring of Fire."
- The first wave of a tsunami is usually not the strongest more waves get bigger and stronger.
- Tsunamis can travel at speeds of about 805 kilometers an hour almost as fast as a jet plane.
- The states in the U.S. at greatest risk for tsunamis are Hawaii, Alaska, Washington, Oregon, and California.

History of Tsunami Proof Buildings



The Tsunami House, on the northern end of Washington's Camano Island, is designed to withstand the impact of powerful wave walls with heights of up to eight feet and speed up to 136 kilometres

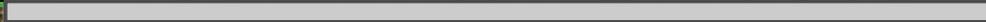
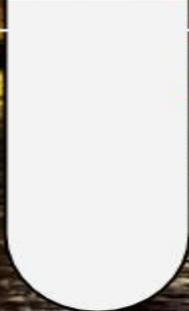
Tsunami Proof House

Glass dome

bedroom

Kitchen

Lounge Room



Materials for the Tsunami Proof House

I used a box

Two plastic containers

Trees

Lego Minifiugures

Grass and roof tiles wallpapers

Wooden poles

How it works

You pour water into a gap in the side of the house and the house will lift and it will stop the water hitting the house.