To set a clock forward from 3.11.

Breakwater of New Concept

- Stand up in the flooded water by buoyancy and prevent major of following tsunami from invading the land.
- Corresponding reasonable breakwater performance.
- High cost-benefit performance compared with concrete one
- Optimum for Level-2 tsunami

WCDRR
Official Logo

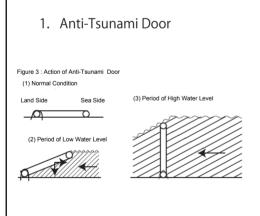
Automatic operation

- Contained in the ground, quay, etc. (No major appearance)
- Easily noticing of tsunami invasion by its standing up
- Almost no site intervention and no limitation of citizen life near the facilities

Unit structure

- Easy manufacturing in shop and minor foundation
- Wooden made structure
- So economic and environmental friendly
- Possible Multi-folding/multi-layer arrangement
 Applicable to high tsunami area
- Optimum against Level-2 tsunami

AUTOMATIC ANTI-TSUNAMI SYSTEMS OF ATSR



2. Multiple-fold Anti-Tsunami Door

Action of MATD

Housed such as under surface of ground

Mark Buoy:
to indicate installation
Height =
Sea level + 3 (to 5) m
Structures:
Made of whole bamboo (10cm dia. preferable)
Opening: Almost the same with dia. (to pass water during normal time)
Keep space for activities
of sea animals and fishes

Anchor Metal Fitting:
to connect raft with sea bottom (buried or connecting with neavy items)

(図 3] 設置図と津波を経衛する時の動作図
(a) Normal Condition (b) Hazardous Condition

Water Flow (River)

Anti-Tsunami
Gate

Gate

Congrigor

Congrigor

Anti-Tsunami
Gate

4. Anti-Tsunami Gate

1. Anti-Tsunami Support
Opening to enclose support
3. Supplemental Support
Bearing

5. Anti-Tsunami Support

6. Automatic Tsunami Alarm System

