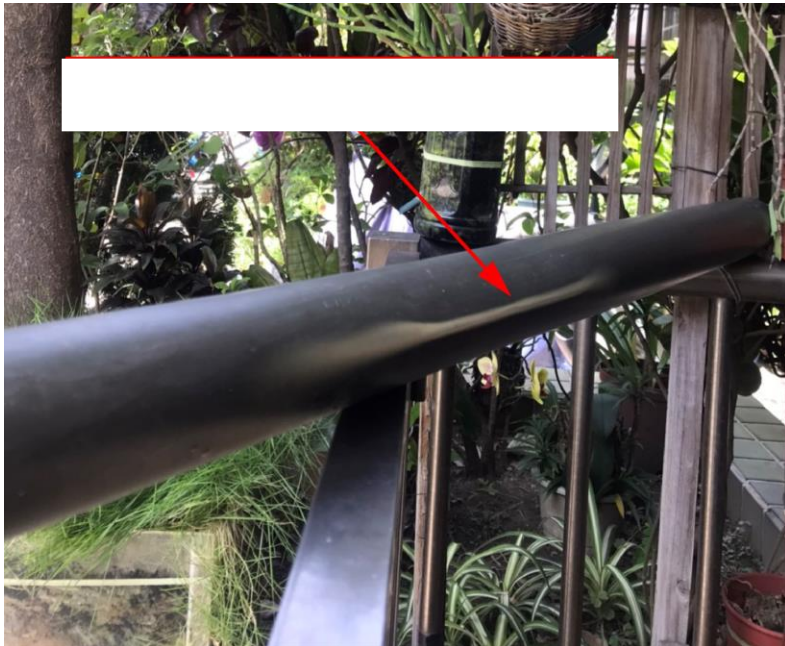




Presenter: Ruby Tu

The difference between ABS & PVC material

ABS material has high strength and toughness. ABS pipe may be deformed under external pressure, but it is not easy to break and cause water to flow out of the pipe

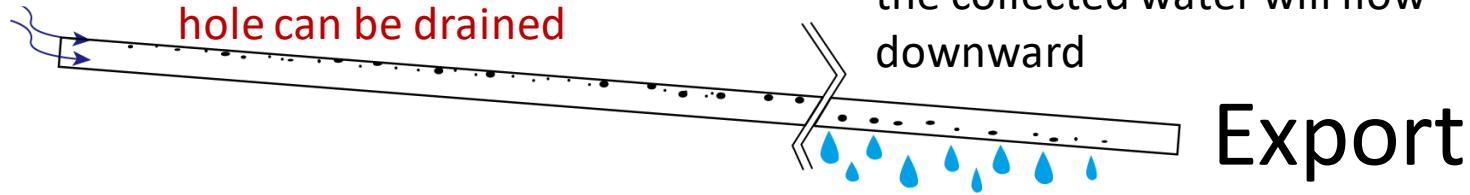


PVC pipes are prone to cracks due to external forces. The notched pipe will cause a large amount of collected water to flow out at the crack, and will direct the water deep in the soil to the structure.



Other drainage Pipes 4M

Only the upper part of the hole can be drained



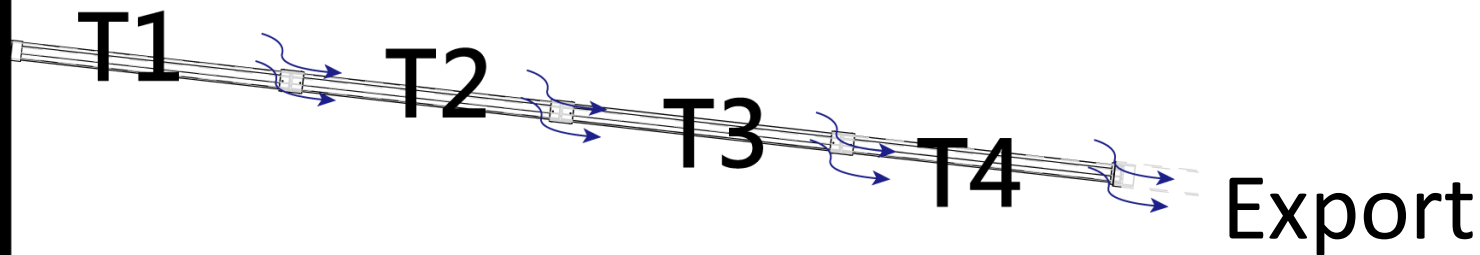
If the drainage direction is not noticed during construction, the collected water will flow downward

VS

CapiphonDraintube 1M *4

Every part of the draintube surface is collecting water.

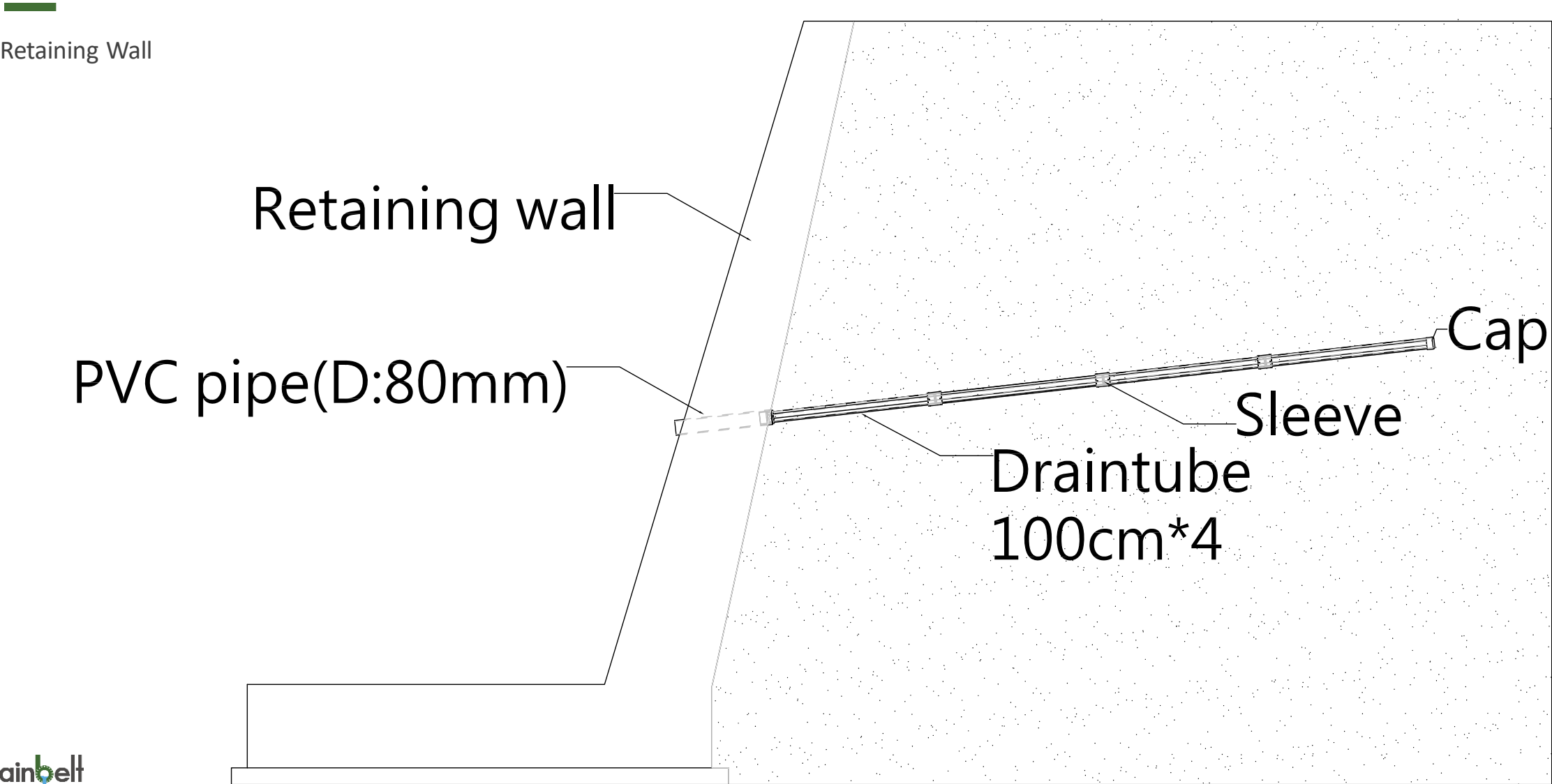
Each Draintube connected with a sleeve, collected water will be imported to the pipe by the next sleeve.



Draintube

- Draintube absorbs water through the surface, opening rate >18%
- Draintube absorbs water on its whole surface, so it will not leak back due to the rotation of the pipe during construction.

How does draintube use in constructions



Comparison of the performance of Capiphon Drintube and other common drainage materials

product name	Similar diameter (mm)	Opening rate r(%)	Absorbent area As(m ²)	Water collection Qc(m ³ /sec)	
1. Capiphon Drintube	63	20%	4	4x10 ⁻⁶	Water collection is much higher than other materials
2. PVC pipe with holes(φ3")	80	1.50%	0.38	0.38x10 ⁻⁶	
3. PVC pipe with holes(φ4")	100	1.50%	0.47	0.47x10 ⁻⁶	
4. HDPE mesh pipe(φ3")	80	6.30%	1.58	1.58x10 ⁻⁶	
5. HDPE mesh pipe(φ4")	100	6.30%	1.98	1.98x10 ⁻⁶	

計算公式： water collection (Qc) =Ks * I * As

Ks = Soil permeability coefficient (if Ks = 1x10⁻⁶ m/sec) , I = hydraulic gradient (if I = 1), As = Absorbent area (m²)

Material	Under the condition of the same water collection, the unit price (including the cost of construction and other filter materials) required for a 10-meter-deep drainage pipe is	Life cycle	
Capiphon Drintube	NT \$24720	10-20 years	There have been cases for more than 20 years
PVC pipe with holes(3")	NT \$162528	3-5 years	
HDPE mesh pipe(3")	NT \$48797	5-10years	