

# Rainwater Wall



For large scale above ground storage of rainwater and cool energy for utility buildings, housing cooperates and premises



Rainwater Wall capacity 7,5 m3

## In short

The Rainwater Wall (RwW) is a thin, long tank, installed next to a blank wall of a company, industrial site, apartment- or general building. The water stored within the tank can be utilized for cleaning, washing and flushing of toilets. Also it is used for irrigation and gardening. The water stored in the RwW can provide a buffer to overcome drought periods.

In addition, the energy stored within the water is utilized for cooling nearby workspaces and production facilities.

As such, the RwW provides you the opportunity to lower your water- and energy bill substantially and help saving the environment.

## RwW target groups

The RwW concept is most appealing to:

- Owners of (large) estates and buildings, administrators of housing cooperatives and company premises;
- Building advisors, project developers and professional installers;
- Municipalities and Water Authorities.

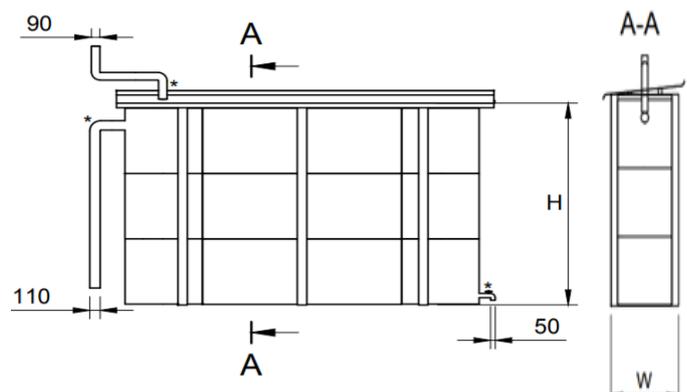
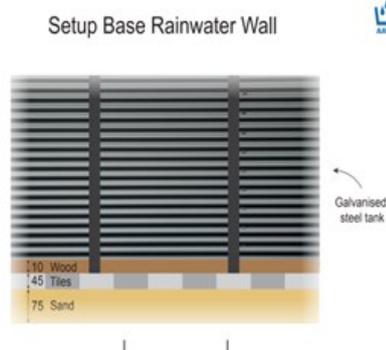
## Benefits

Applying the RwW helps to reduce the water bill because free captured water is utilized for cleaning- and flushing activities. In addition, water security is increased in regions prone to seasonal droughts.

Finally, the RwW provides the opportunity to lower the energy bill substantially using the cold energy of the collected water for climate control and cooling of work and production areas.

## Technical details and drawings

Dimensions	Remarks
L 4 - 20 m	Dimensions tank site dependent
W 0.8 - 2 m	Volume tank: 4 m <sup>3</sup> - 100 m <sup>3</sup>
H 1.5 - 3.3 m	*) situation dependent



# Rainwater Wall



RwW next to production facilities



RwW next to appartement block

## Construction, liner and lifetime

The structure is modular based and constructed using galvanized standard steel segments joint together using an ingenious and proven bolts/nuts system. A strong frame is added to stabilize the construction and sturdy plastic liner is placed inside the tank resulting in a 100% watertight situation.

The lifetime of the RwW is expected to be 10-15 years.

## Dimensions

The thickness of the RwW is at least 0,8 meter width, the length is 5-20 meter and the height of the tank ranges up to about 2,3 meter. As such, a RwW is capable of storing 5-100 m<sup>3</sup> of rainwater, dependant on local conditions, rainfall patterns and the total area of the roof available.

## The RwW is modular and is easily fit in exiting situations

RwW's are modular and can be situated flexible in nearly all situations. RwW's are dimensioned upon ones needs and can be ordered in different colors dependent on peoples taste. It can even be decided to place a wooden- or flower fence in front of the RwW to increase the 'green' nature of the structure or a local artist could be hired to decorate the RwW.

## Buffering of water reduces pressure on public sewer system

Buffering of rainwater in RwW's reduces the strain -during heavy rainfall- on the stormwater runoff infrastructure often resulting in flooding and disrpture of the society. As such public funds can be spared and used for solving other pressing issues.

## Interested?

For more information, questions and quotations, let us know.

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