

# Rainwater Wall



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



## 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 of windows and floors and flushing of toilets. It can be used also for irrigation, gardening and provides a buffered to overcome drought periods.

In addition, the energy stored within the water is utilised 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.

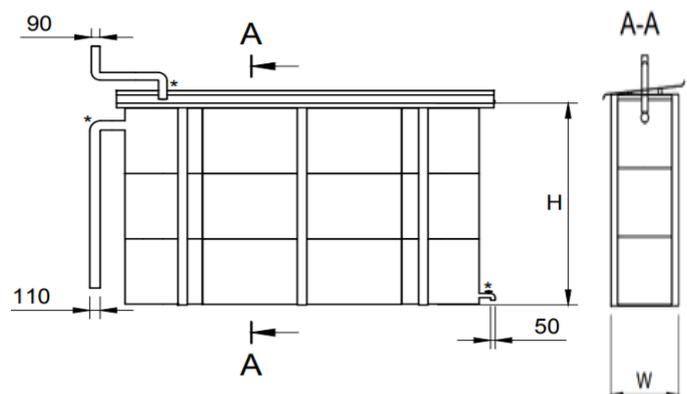
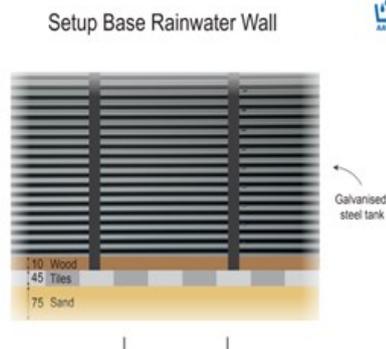
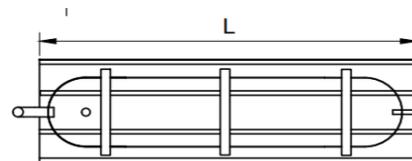
## Benefits

Applying the RwW helps to substantially reduce:

- The water bill because free captured water is utilized for cleaning- and flushing activities;
- The energy bill using the collected water as a buffer storing energy for climate control in work- and production locations and for the heating of water.

## 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

## Construction, liner and lifetime

The structure is modular based using galvanized standard steel segments joint together by an ingenious and proven bolts/nuts system. A strong frame is added to stabilize the construction and a 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.



RwW next to appartement block

## 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 2,4 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 tastes. 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.

## Interested?

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

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