

## User Benefits

- Easier for burying and suitable for areas with high groundwater level due to its height of only 300mm
- Inspectable and cleanable from all sides
- Ground plate only needed on the bottom
- Horizontal and vertical inspection enabled
- Horizontal and vertical cleaning
- Flexibility in inlets of 110, 125 and 160mm
- Prefab package with geo textile and inlets available
- Strong and reliable software tool for calculating needs
- STORMBOX can be split in half for small projects and flexible configurations
- Watertight, wrapped with the polyethylene foil
- It behaves like retention systems. Retains raised water level inside the structure for further usages, e.g. irrigation

## Installation

In order to ensure proper and durable functioning of your infiltration systems please take note of the following installation guidelines.

- Pipelife can provide you with a program to calculate the proper amount of storage capacity
- Working area needs to be horizontal and level.
- Groundwater level at least 100 mm under the STORMBOX.
- Use proper geo textile for infiltration
- Connect box and ground plate with supplied clips
- Make proper connections for the inlets, inspection and overflow
- Make use of the other STORMBOX family of rainwater infiltration products to prevent blockage of the system
- Use drainage sand with a minimum of 300 mm around infiltrating area
- Minimal ground coverage with traffic: 600 mm
- Minimal ground coverage without traffic: 300 mm
- The Pipelife STORMBOX is also available as prefab packages, pre-wrapped in geo textiles and including the desired connections

## Technical Data

### Deliverables

The Pipelife STORMBOX consists of three parts: the box, the ground plate and clips.



Box



Ground plate



Clips

### Colour

Green RAL6024

### Material

Polypropylene

### Physical Characteristics

Length: 1200 mm

Height: 300 mm

Width: 600 mm

### Capacity

Net capacity 95.5%, 206 liters.

Infiltrating capacity more than 50%.

### Strength

Load-bearing capacity up to SLW 60 depending on installation .

### Inlets

110 mm, 125 mm and 160 mm

### Regulations

BRL 52250

Traffic class D400 according to EN124

KOMO approval pending

DIN 1989



# STORMBOX

Storm water detention and retention solutions

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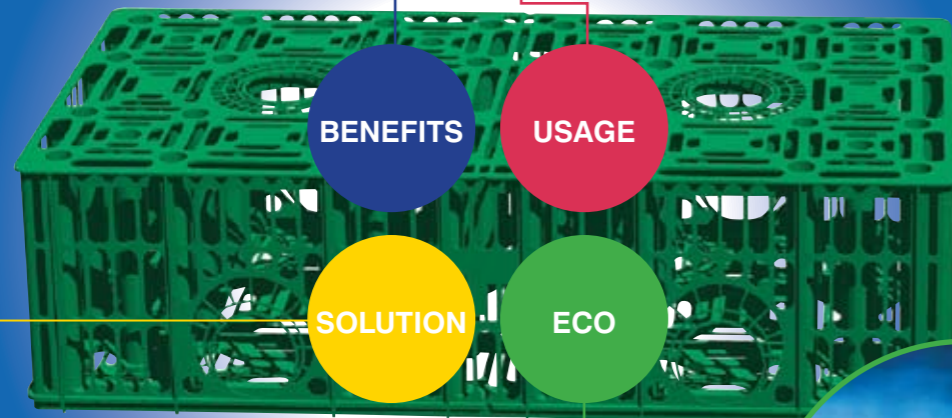


**Use of Pipelife STORMBOX has many advantages**

- The strongest box in the market
- 95.5% of net capacity, 206 l of usable volume per box
- Modular system for fast and easy stacking
- Low in weight, highly manageable
- Powerful software



- For private houses
- For groups of buildings, residential areas.
- For all areas that need flood prevention systems and where the existing storm water transport facilities are already inadequate
- As a transport system for conveying water to open water bodies
- As a retention box wrapped in a waterproof polyethylene foil
- As a nurturing system for trees, with or without filling opening



**The problem**



**The solution**



- Keeping the groundwater at an acceptable level
- Flood prevention
- Keeping our scarce drinking water cleaner and healthier
- Water-tight wrapped with the polyethylene foil our system retains the storm water and collects it for further use, e.g. irrigation.
- Made from non-toxic and recycled material



**W**ater is our dearest asset on earth. One of the great challenges facing humanity in this century is maintaining clean drinking water despite growing human populations and land development. Because the water we drink originates from storm water, it is important that we keep it as clean as possible from the very beginning.

Storm water flowing over parking lots, streets, industrial sites or agricultural fields may pick up oil, grease, and chemicals resulting from spilled fertilizers from fields and lawns, etc. All of these are considered to be contaminants, substances that can pollute our waters and result in human health problems.

It has been confirmed many times that properly constructed and maintained storm water detention devices, together with oil and grease interceptors, can reduce sediments and contaminants like metals, petroleum products and fertilizers.

In addition, storm water detention is important in flood prevention. Detention devices are generally associated with surfaces like paved parking lots or building roofs which allow storm

water to run off of their surfaces rather than penetrat into the ground. Water held in detention devices allows it to enter storm sewers or drainage pipes at a slower rate so that streams and rivers do not receive excessive runoff in short periods of time that would cause them to overflow their banks.

Where storm water piping systems are already overloaded due to fast-growing residential areas, resulting in insufficient flux, installation of detention systems is the simplest and most cost effective way to solve these problems.

Pipelife recognized this and has introduced a complete family of innovative rainwater detention/retention products.

**The STORMBOX is an innovative new product that finds its main application in rain-water detention and retention solutions.**

Consisting of:

- Complete assortment of pipes and fittings
- Leaf separator
- Road gully with sand and mud collector
- Oil and grease interceptors (if necessary)
- IT (infiltration and transport) and ID (infiltration and drainage) pipes
- STORMBOX
- Geo textiles

**With the help of Pipelife`s STORMBOX storm water detention/retention systems you will be able to store Run-off from urbanized areas and release it at rates reflecting the natural condition which existed before development. Scarce/precious groundwater will be kept at an acceptable level, rivers and streams will not overflow their banks and the existing sewer system will not be overloaded.**

