



## RAUSIKKO NEW GENERATION

DURABILITY AND SAFETY IN RAINWATER MANAGEMENT

# RAUSIKKO BOX

## FUNCTIONALITY BRINGS DURABILITY AND SAFETY

The new **RAUSIKKO Box System** offers the right solution for all the requirements of the percolation, retention and storage of rainwater. This guarantees safe, long-lasting and reliable rainwater management.

The RAUSIKKO box system scores highly with its high functionality and loading capacity. The unique **distribution, inspection and cleaning channel** with staggered slots offers

- Ideal water distribution in the block system
- A visual inspection option for the unit
- A rinsable sedimentation area
- The possibility of effective cleaning/high pressure rinsing

This ensures a long-term and trouble-free function of the block system.

### The benefits at a glance:

- 1** Sedimentation area which can be rinsed at up to 120 bar
- 2** Staggered slots in the distribution channel for ideal water distribution
- 3** Storage coefficient of 95 %
- 4** Connection to DN 110 / 160 / 200 / 250 front plate / front socket
- 5** Fixing of the lengths via push-fit socket connections
- 6** RAUSIKKO Box type 8.3, which is half the installation height, can be used in combination with RAUSIKKO boxes type 8.6
- 7** Loading capacity of SLW 60 with a minimum covering of 800 mm and up to 4m installation depth



RAUSIKKO Box 8.6 SC



RAUSIKKO Box 8.3 SC

# RAUSIKKO BOX HEAVY DUTY

## SAFELY WITHSTANDS HIGH LOADS

The RAUSIKKO Box Heavy Duty is a new dimension in terms of static loading capacity and therefore safety as well.

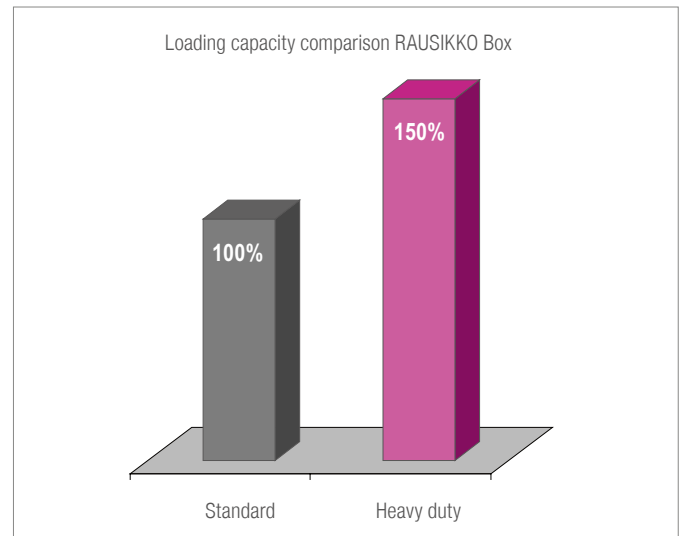
The storage elements achieve an extremely high loading capacity due to the additional integrated support elements. As a result of this, even greater installation depths and respectively safety can be realised with RAUSIKKO Box Heavy Duty.

**The RAUSIKKO Box Heavy Duty is therefore synonymous with high stability and safety.**

Due to the additional support elements the storage coefficient of the RAUSIKKO Box Heavy Duty is 93%.



RAUSIKKO Box 8.6 HC



The RAUSIKKO Box product range at a glance:

Design	RAUSIKKO Box Standard				RAUSIKKO Box Heavy Duty	
	Without channel	With Channel	Without channel	With Channel	Without channel	With Channel
Type	8.6 S	8.6 SC	8.3 S	8.3 SC	8.6 H	8.6 HC
						
Width [mm]	800		800		800	
Height [mm]	660		360		660	
Length [mm]	800		800		800	
Gross Volume Litres	422		230		422	
Net Volume Litres	400		212		391	

# RAUSIKKO C3 SYSTEM SHAFT

## THE MULTI-PURPOSE FUNCTION SHAFT

The RAUSIKKO Box system is rounded off with the multifunctional RAUSIKKO C3 system shaft, which combines **3 functions**:

### Connect:

Connecting sewer pipes DN 250 to 500 to the cleaning channel of the RAUSIKKO Box

### Control:

Easy insertion of a camera for regular inspection of the closed RAUSIKKO boxes

### Clean:

High pressure cleaning of the closed RAUSIKKO boxes with the cleaning channel



*RAUSIKKO C3  
Connect, Control, Clean*



*Shaft base with sand trap and shaft extension*



*Multi-layer construction of the shaft base  
(also possible with sand trap)*

### The benefits at a glance:

- Ideal inspection and rinsability of the percolation or storage unit
- Easier insertion of inspection and cleaning equipment thanks to the large diameter of the shaft extension
- Options for connecting rainwater pipes to the trench or reservoir
- Arranging the shafts in the trench area reduces the space and excavation required, and therefore reduces installation costs
- Optional sand/silt trap facilitates use as a fully-fledged shaft with a sedimentation area for fine particles/sediment

# RAUSIKKO HYDROCLEAN

## RAINWATER TREATMENT WITH CERTIFIED SAFETY

**RAUSIKKO HydroClean** makes it possible to clean rainwater runoff which is classified as tolerable or not tolerable according to DWA Worksheet A 138. This fulfils the strict requirements of the Federal Soil Protection Ordinance (BBodSchV), so downstream percolation is possible.

RAUSIKKO HydroClean achieves this using a 3 stage treatment system:

1. Sedimentation
2. Filtration
3. Absorption and precipitation

Audited by LGA/TÜV Rhineland according to the draft audit standards of the DIBt

### Function:

The rainwater passes into the bottom end of the shaft via a **bypass facility** and forms a circular laminar flow, which pulls the sedimentation of particles into the **silt trap**. Due to the slow-down of the flow in the silt trap and its **funnel-shaped inlet**, backwash is prevented even in the case of heavy rain.

The water which has been pre-cleaned to largely remove solid material then flows through the **filter elements** from the bottom up. During this a large proportion of the pollutants removed are bonded through absorption and precipitated. At the same time the elements act as a filter for suspended sediment which is still in the rainwater runoff. The water cleaned in this way then passes through an **oil course** and then ends up via the **flow** in the downstream percolation/retention unit or receptacle.

### The benefits at a glance:

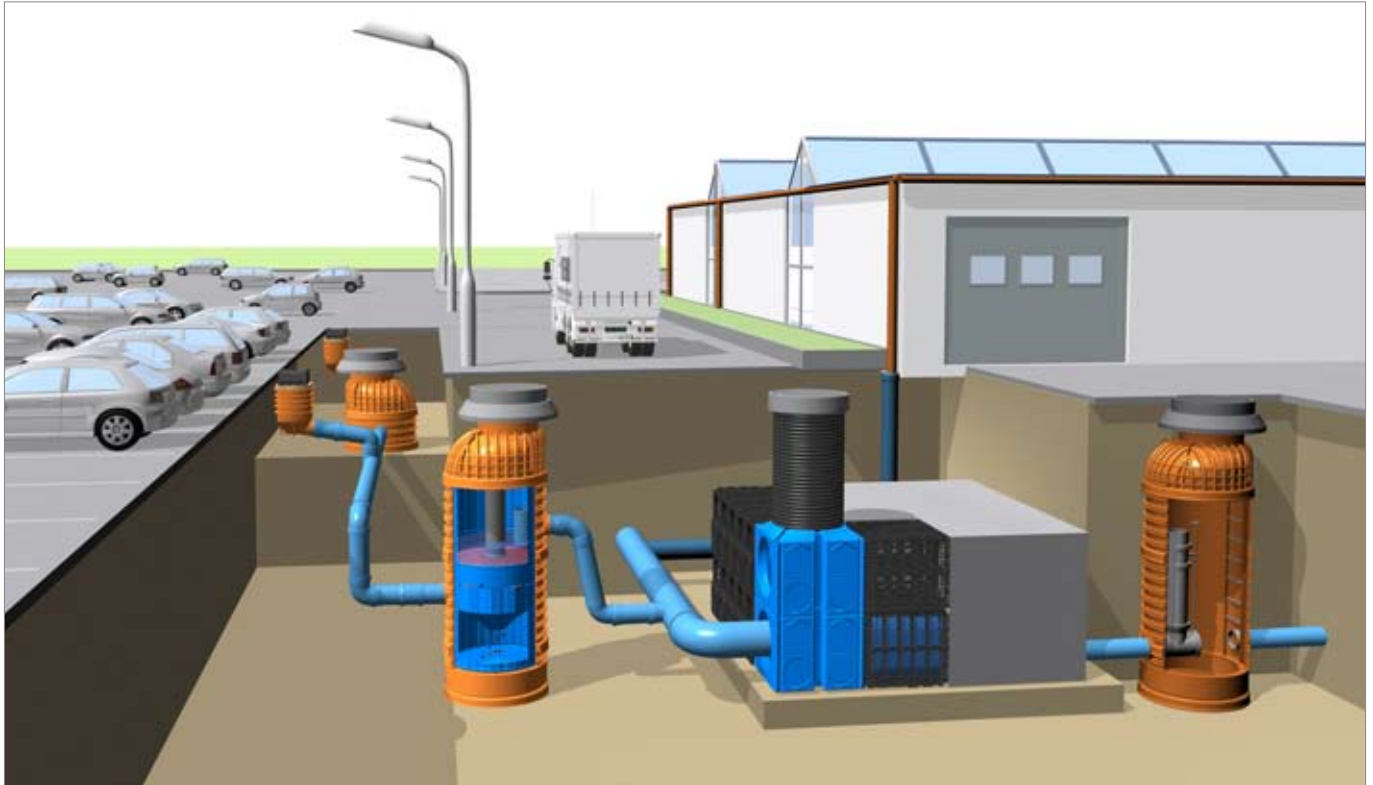
- Proven cleaning performance
- Audited by LGA/TÜV Rhineland
- Cleaning of tolerable and not tolerable polluted rainwater runoff
- Precipitation of solid material and loose material (e.g. metal ions like copper and zinc)
- Various filter mediums for different types of pollution
- Easy to install
- Filter system fitted ready for connection in the RAUSIKKO DN 1000 inspection shaft
- Easy to maintain

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- 1 Bypass facility
  - 2 Silt trap
  - 3 Funnel-shaped inlet
  - 4 Filter elements
  - 5 Oil course
  - 6 Outlet

*RAUSIKKO HydroClean (cut-away view)*

# RAINWATER MANAGEMENT

## FUTURE-PROOF SOLUTIONS FROM REHAU



REHAU offers specially designed system solutions across all aspects of the topic of rainwater:

- RainSpot road gulleys for rainwater collection
- AWADUKT PP and RAUVIA rainwater channels
- AWADOCK connection systems
- RAUSIKKO/AWASCHACHT systems for inspection and cleaning
- RAUSIKKO HydroClean for pre-treating heavily polluted rainwater runoff, e.g. from road surfaces
- RAUSIKKO Box: Reservoir blocks for rainwater percolation, retention, storage

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