



HIDROBOX: APPLICATIONS OF THE S.U.D.S - SUSTAINABLE URBAN DRAINAGE SYSTEMS



Catalogo 079.3

HIDROSTANK, S.L.

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TECHNICAL CHARACTERISTICS OF THE SYSTEM HIDROBOX

The system Hidrobox shapes a plastic geo-structure of high resistance who allows executing elements of rain capture, accumulation and underground transport; always with a modular and simple form. With a manual very simple assembly, the product admits diverse configurations depending on the demanded resistance.



HIDROBOX' Detail 1.1 (*)

(*)"HIDROBOX X.Y" Nomenclature, where X is the nº of elements in height and Y the number of internal partitions.

TECHNICAL CHARACTERISTICS	
* Material:	Polipropileno negro reforzado con cargas minerales
* Dimensions (L x W x H):	728 x 445 x 495 mm
* Porosity (aprox.):	94%
* Capacity of accumulation:	151 litros
* Weigh (aprox.):	11.86 Kg
* Resistance to compression:	300 KN/m ² to 500 KN/m ² (according to internal configuration)

The advantages obtained of the utilization of the hidrobox in the application of the SUDS are:

- They reduce the volumes of run-off and caudal top proceeding from zones urbanized by means of elements of retention and lamination.
- They minimize the cost of the drainage infrastructures at the same time as they increase the value of the landscape environment.
- They improve the quality of the waters receptors of urban run-offs, favouring the natural processes of purification and preventing that the pollutant loads reach the half sensitive recipients.
- They retain the excesses of nutrients (nitrates, phosphates ...) that produce the phenomenon of the eutrophication of the rivers, what means, the uncontrolled growth of the vegetation that makes diminish the presence of oxygen in the waters and, therefore, the death of alive beings.
- They integrate the treatment of the waters of rain in the landscape, maximizing the service to the citizen and improving the landscape with the integration of water courses in the environment.
- They allow to take advantage of the water caught for other uses (irrigation and watering, cleanliness of streets, etc.) reducing the water consumption.

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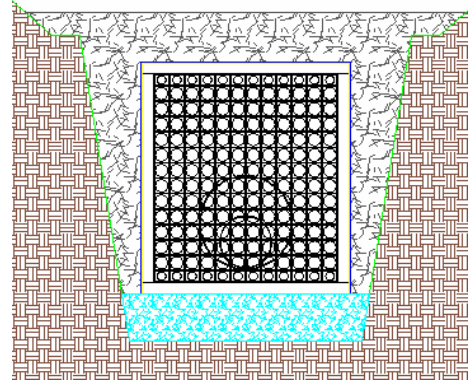
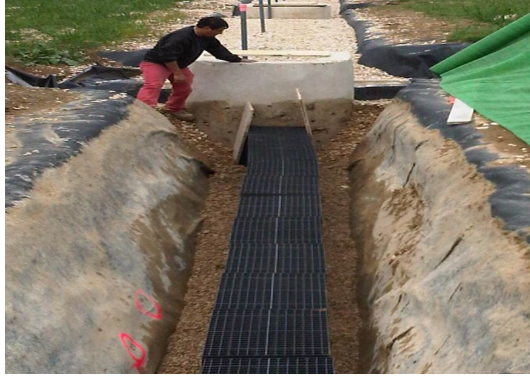
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APPLICATIONS OF THE HIDROBOX' SYSTEM

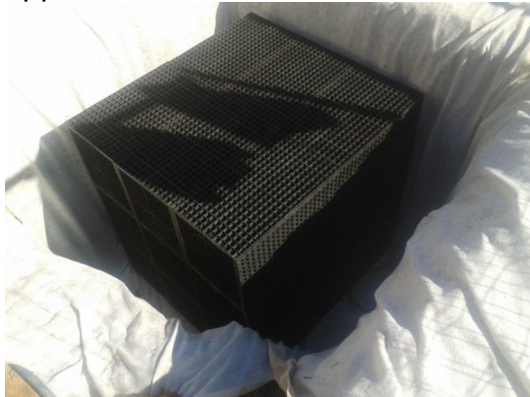
FILTERING GUTTERS

Hidrobox's placement 1.1 longitudinally allows one of the multiple configurations that implement a filtering gutter. The advantage of the utilization of the Hidrobox rests principally on the volume of retention that is obtained.



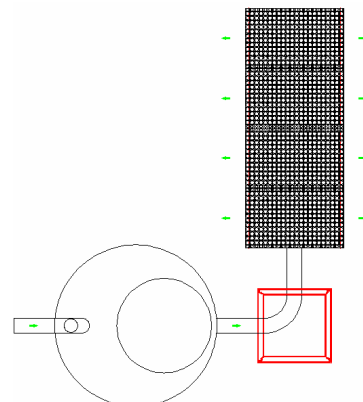
TANK-CHAMBERS OF INFILTRATION / DETENTION / IRRIGATION

Different variants of tanks/chambers can be obtained depending on the needed application and the utilization of the accessories and opportune geotextiles.



INFILTRATION OF SEPTIC TANKS

With the Hidrobox the efficiency in the distribution of the effluent one of the septic tanks, is much superior to the utilization of drainage pipes and beds of gravel.



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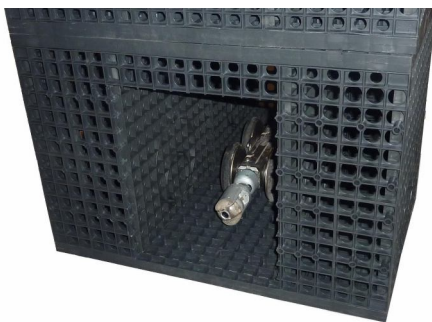
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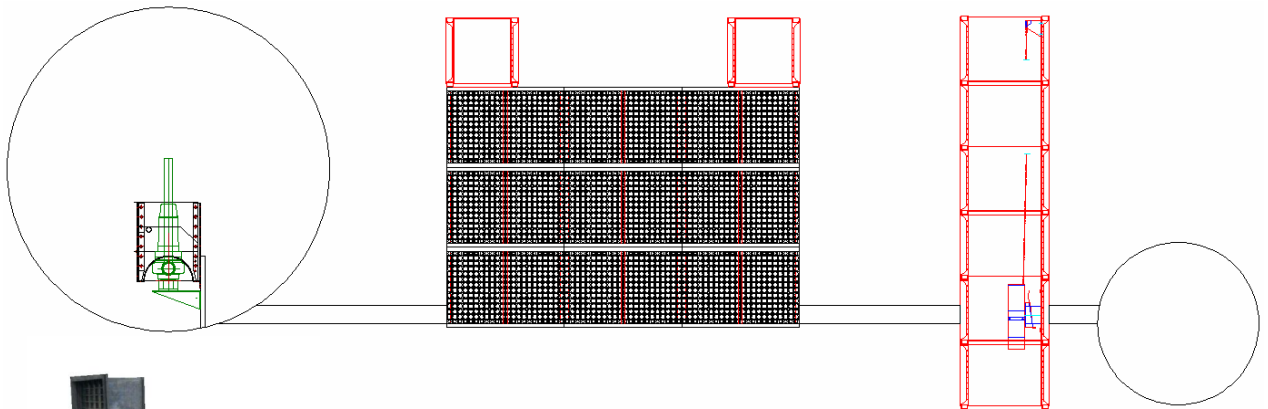
ACCESSORIES

HIDROSTANK puts to his disposition the whole range of accessories that makes possible to shape a tank/chamber that will satisfy all the oportune requirements in this type of facilities, besides a technical department which collaborates in the design of his projects.

- Access and control Chambers
- Pieces of entry / exit for any type of pipeline and location in the geo-structure
- Creation of channels of inspection for CCTV (closed circuit of TV)
- Chambers of regulation
- Tanks of pre-treatment to eliminate the sand
- Tanks of pre-treatment to eliminate the sand and of sifted.



Inspection CCTV



Registrable by means of Chambers



Pipeline's Connectors



Chamber of regulation Vortex

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