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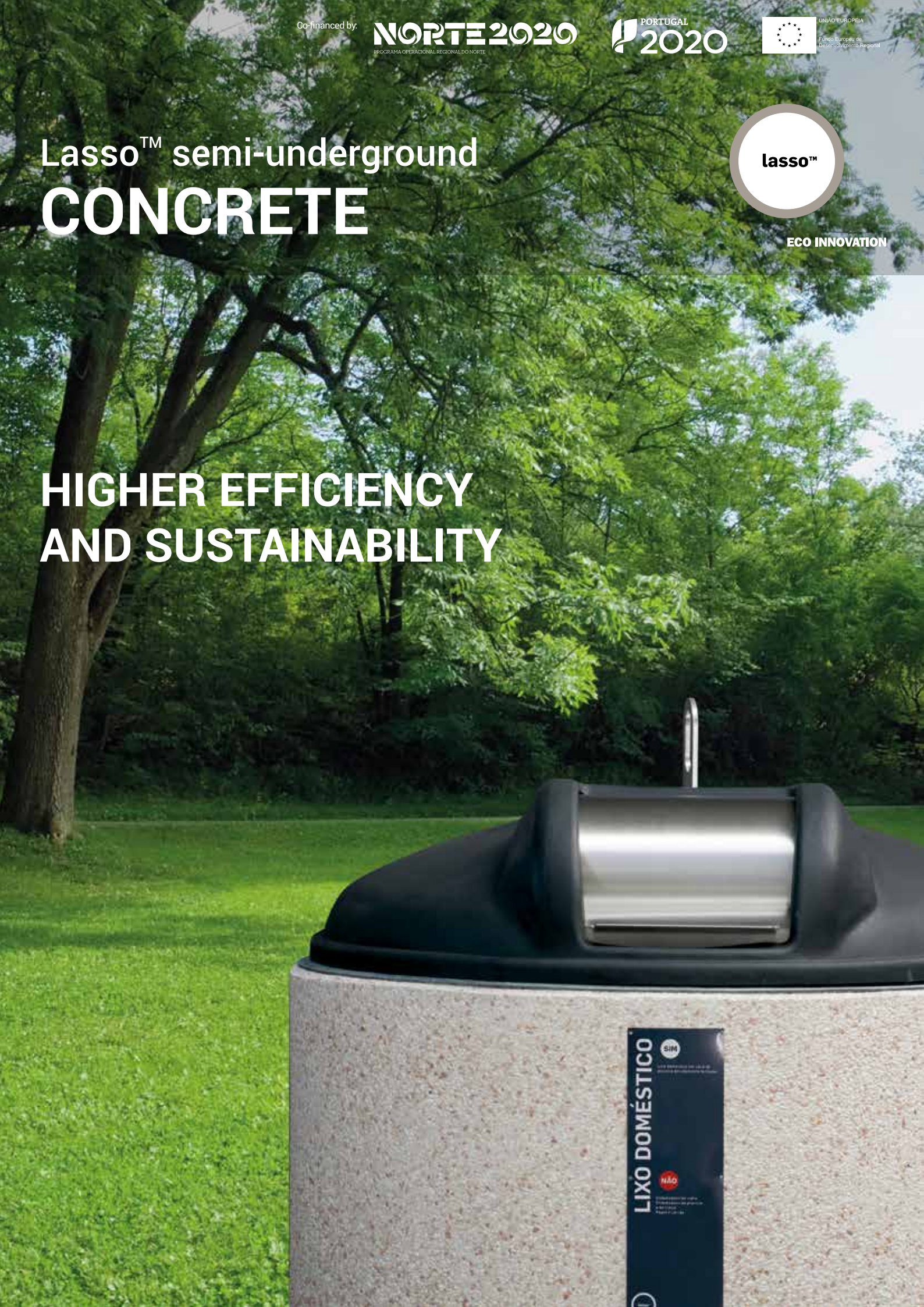
Lasso™ semi-underground
CONCRETE

lasso™

ECO INNOVATION

HIGHER EFFICIENCY AND SUSTAINABILITY



System Principles

The lasso™ semi-underground concrete container is available in 5m³ e 3m³ capacities.

It is characterized by its high mechanical strength and fire resistance (M0 classification) due to its monobloc structure in C40/50 class prefabricated reinforced concrete.

Reduced space occupation and minimum visual impact at the surface, with most of its storage underground.

The lower underground temperatures slow down bacteria growth, contributing to odour reduction.

Waste compression by its own weight allows higher density than surface containers.

The investment and operating costs are low due to its simplicity, high capacity and fast collection operation.

Finishing

Smooth concrete (optional colour) | Lioz stone aggregates | Rounded stone aggregates | Anodized Aluminium | Lacquered Aluminium | Wood | Recycled Plastic | Finishing Image

Lids

HPDE

Standard

Double Drum

Vertical Opening

Standard Colour: Dark grey (Other colours available upon request)

METAL

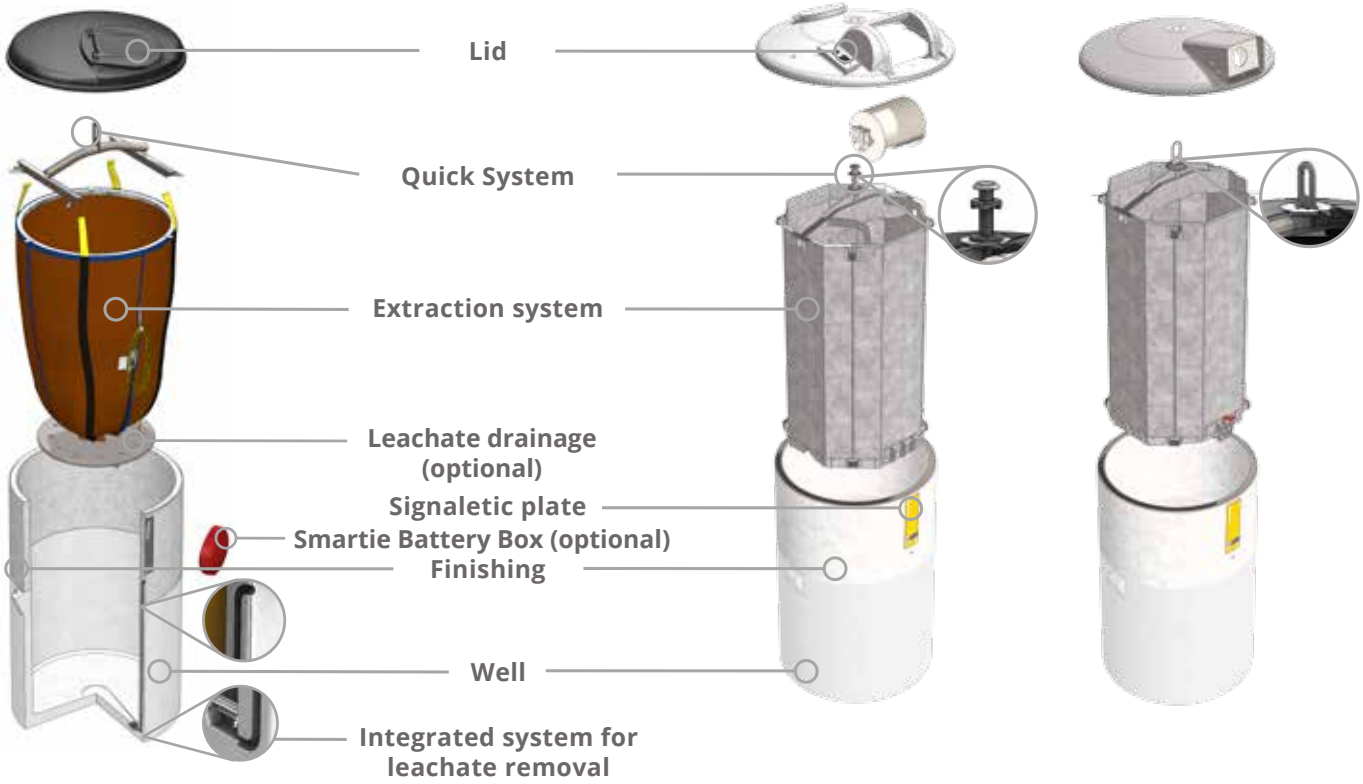
Double Drum

Premium Vertical Opening

Standard Vertical Opening

Standard Finishing: Textured polyurethane paint (Dark grey)
Optional Finishing: Elastomeric resin with high cut and impact resistance (Dark grey).
(Other colours available upon request)

Bag (single hook)	Steel (kinshofer)	Steel (single hook)



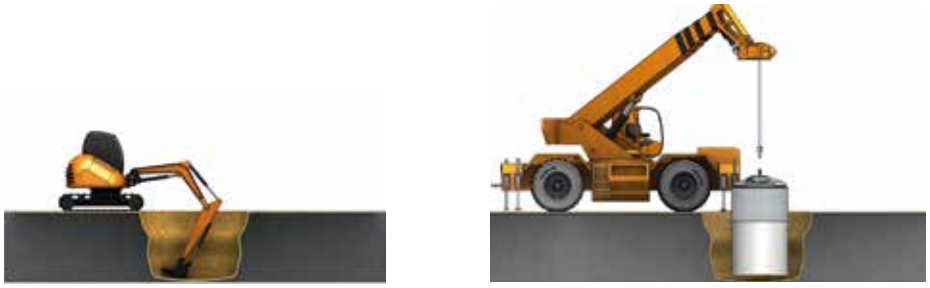
Components	Description
Lid	In high-density polyethylene or hot-dip galvanized steel. Available in several options: standard opening, vertical opening or rotating double drum, compatible with PAYT systems or other waste disposal access control systems.
Quick System	Single hook or double hook/Kinshoffer (the double hook or Kinshoffer system is only available for extraction systems with metal containers).
Extraction System	**Flexible:** **Standard bag:** In polypropylene double layer. Reinforced with high resistance PVC layer for glass waste. **Masterbag™ (Patent EP2194005 A1):** In polypropylene double layer and high resistance PVC layer, provides a watertight element for waste extraction that allows retention of leachate. **Rigid:** **Steel Container with single hook:** made of hot-dip galvanized steel, bottom opening with single door; enables leachate retention. Fire classification is M0. **Steel Container with double hook/kinshoffer:** made of hot-dip galvanized steel, bottom opening with double door; enables leachate retention; with double hook or kinshoffer system with flexible chain and anti rotation "mushroom" for better and easy manoeuvring; Fire classification is M0.
Signaletics	Signaletic plates are in thermo lacquered aluminium with silkscreen printing (Optional : high definition digital printing on vinyl)
Finishings	Smooth concrete to the desired colour, white concrete with white/red Lioz gravel, grey concrete with rounded stone aggregate, treated wood, recycled plastic anodized aluminium, lacquered aluminium or with customized images.
Well	Monobloc structure in C40/50 class prefabricated reinforced concrete, partially buried in the ground, designed to resist water level impulsion forces. It also has an innovative integrated system for leachate removal.
Integrated System for leachate removal	The concrete well is provided with a conical bottom that directs leachate into a drain tank which is connected to an in-built wall pipe, allowing leachate vacuuming, making the cleaning operation extremely rapid and effective.

Optional components	
Leachate Drainage	Only for containers with flexible bag; prevents contact between collection bag and possible leachates.
Battery Box	Red colour and round shape, the smartie battery box has a format that fits into the circular wall of the lasso™ concrete semi-underground container.

Dimensions

		3M³	5M³
A.	Container Total height (with lid)	2220 mm	2960 mm
B.	Total height above ground level	1250 mm	1250 mm
C.	Well height, below ground level	970 mm	1710 mm
D.	Lid height	350 mm	350 mm
E.	Well height, above ground level	900 mm	900 mm
F.	External diameter of the well	1795 mm	1795 mm
G.	Volume of the battery box	8 liters	8 liters
	Well weight	approx. 3 tons	approx. 3,8 tons
	Average thickness of the side walls = 92,5mm (85mm above and 100mm below).		
	Bottom thickness is 140mm		

Installation



STANDARD INSTALLATION

01. Dig a pit with a depth of

0,97m (3m³) or 1,71m (5m³), and a width of 2,4 m

02. Create a well-compacted layer and stabilize the bottom.

03. Place the container in the pit ensuring its vertical positioning.

04. Proceed by filling the empty spaces around the container with well compacted filling material

05. Proceed with the surface finishing of the surrounding area.

Note: The semi-undergrounds are delivered with a complete installation guide.

Maintenance

The lasso™ semi-underground concrete containers are characterized by their high strength and low maintenance, having been designed for intensive use under extreme environments for an extended period of useful life.

Certificates, Standards and Patents

In compliance with the EN 13071-1 / EN 13071-2 Standards

Directive 2000/14/CE (noise): LW 64,9 dB / LWA 63,7 dB(A)

Collection bag: EN 21898:2001 (EFIBCA 006)

Well: - Certificate EN 206-1: Minimum Strength Class: C40/50
- Fire Classification Certificate: A1 (A1 FL) / M0

Quality and environment management system for the design, production, distribution and installation of semi-underground containers certified according to ISO 9001 and ISO 14001 Standards.

Patent EP2194005 A1 (masterbag™)

Intelligent systems for the management of Municipal Solid Waste

The lasso™ semi-underground containers are compatible with access control systems and filling level monitoring systems enabling the implementation of PAYT systems and optimization of the collection process

RFID Access Control

Monitoring of the filling level