Sistema Atlantis



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Disposable formworks for the creation and renovation of swimming pools



LEGEND:



Water, swimming pools.



Utility passage



Certifications



Energy savings



Recycled material

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variable height from 56 cm to 300 cm





Sistema Atlantis

The Atlantis system has proven particularly effective for the construction and renovation of swimming pools of all shapes and sizes thanks to its flexible, fast and cheap use.

For some time, we have witnessed a growing expansion of facilities for the care and well-being of the person, spas, and water parks, where pools have a fundamental role.

Architectural, as well as functional and safety requirements, bring the necessity of pools of highly complex geometries, with frequent changes of shape and depth.

Optimal sizing is also very important for proper energy management related to water heating. The bottom of the existing structures must sometimes be raised in order to reduce the volume of the water.

Due to its affordability and versatility, the Atlantis system is particularly suitable, because it manages to meet the needs of the most complex projects with ease.



^{Sistema} Atlantis

Advantages

- Ease of positioning as it is light-weight and simple to install through the linking of the elements, with time savings of up to 80%.
- Minimum use of concrete for level filling thanks to the lowered dome form, which permits maximum resistance with minimum slab thickness.
- Possibility, due to the pipe system, to have any height up to 3 m supplied to the yard.
- Possibility to bear loads of considerable size by providing the pillars with suitable reinforcement.
- Adaptable to non-standard spaces as the modules can be cut without underpinning.
- Simple material management in the yard, as it is not bulky and can be exposed to bad weather.
- Simple adaptation to various perimeters.
- Quick and immediate cutting and shaping of the modules.
- Passage of the underground systems in every direction.
- Levelling of the height.













Applications

Atlantis is the ideal solution for the renovation of swimming pools, whether public, private, in resorts and spas, or also for the construction of a new swimming pool inside the existing one.

Faced with the need for a **renovation of the pool**, whether for cosmetic or functional reasons, **Atlantis is the ideal system for creating multi-level or inclined surfaces** where the available thickness allows for it.

Thanks to the customizable elevator pipes, it allows the creation of **inclined surfaces up to a maximum height of 300 cm**. The possibility to adjust the height of the elevator tube within a centimetre also makes it possible to **easily create slopes** in structures that have a finished bottom and surface with different inclinations, with a **considerable saving in terms of time and costs of intervention**. The system can also be used for terracing.



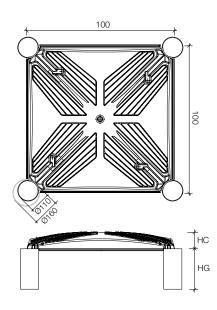








Atlantis System range



Sistema Atlantis 100%			\prod	
	H cm. ▶	from H 56 to H 80	from H 81 to H 110	
Working dimensions bxb	cm	100 x 100	100 x 100	
Dome height HC	h cm	12	12	
Leg height HG	h cm	from 44 to 68	from 69 to 98	
Pipe diameter Ø	mm	110	110	
Quantity of concrete to the crown	m³/m²	from 0,038 to 0,040	from 0,040 to 0,043	
Pipe diameter Ø	mm	160	160	
Quantity of concrete to the crown	m³/m²	from 0,043 to 0,047	from 0,047 to 0,053	
Pallet dimensions*	axbxh	110 x 110 x 250 h	110 x 110 x 250 h	
	Weight kg.	740	740	
Atlantis	Units	70	70	
a b	Sqm	70	70	

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*Data refer only to the cover.

The product does not fear the bad weather and it can be stored outside.

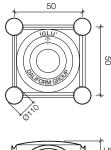
^{Sistema}		ΠĮ.	Ĩ	
	H cm. 🕨	from H 56 to H 80	from H 81 to H 110	
Working dimensions bxb	cm	50 x 50	50 x 50	
Dome height HC	h cm	16	16	
Leg height HG	h cm	from 40 to 64	from 65 to 94	
Pipe diameter Ø	mm	110	110	
Quantity of concrete to the crown	m³/m²	from 0,048 to 0,056	from 0,056 to 0,068	
Pallet dimensions*	axbxc	110 x 110 x 250 h	110 x 110 x 250 h	
	Weight kg.	510	510	
Atlantis	Units	300	300	
a b	Sqm	75	75	

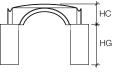
*Data refer only to the cover. The product does not fear the bad weather and it can be stored outside.

Example table of distributed load with Atlantis 100x100 cm - pipe Ø11cm h. 90 cm - slab h 10 cm

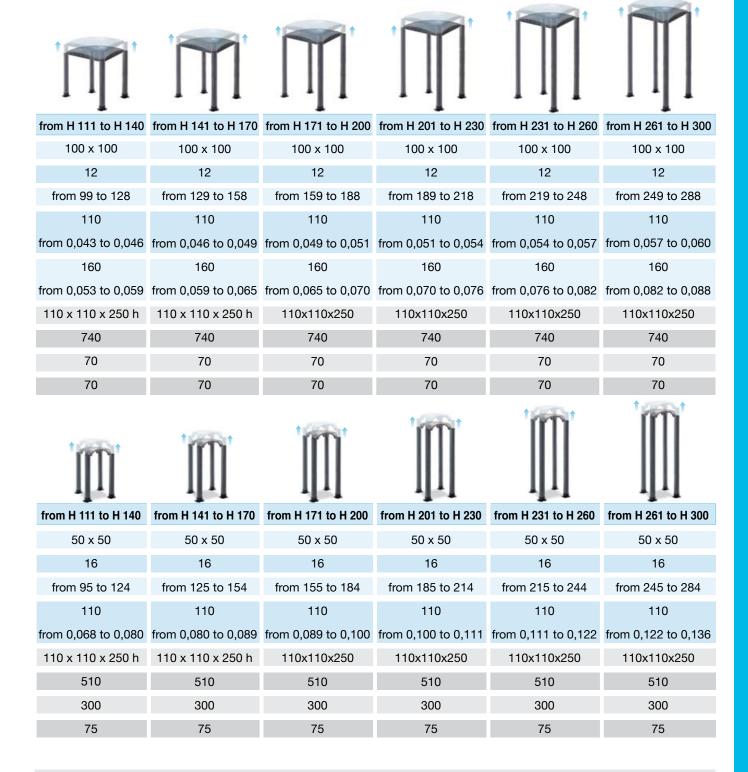
Type of road load	Overload	Hood thickness	Slat thickness Rck30	Scree thickness	Pressure on the ground	Welded mesh	
loau	Kg/m ²	cm	cm	cm	Kg/cm ²	mm	mesh cm.
Example 1	2500	10	15	30	0,42	double Ø 8	20 x 20
Example 2	5000	16	20	35	0,86	double Ø 8	20 x 20

The table expresses, starting from the various examples of overload and of thickness (to be given to the slab), the pressures that would be applied to the feet of the structure, in relation to the (eventual) thicknesses of the lean concrete.





Sistema Atlantis



Certifications



- Technical Construction Certificate issued by the Technical and Test Institute for Constructions Prague (Czech Republic).
- TechnicalConstructionCertificateissuedbytheAgencyforQualityControlandInnovationin Building (Hungary).
- Hygienic Certificate issued by the National Institute of Hygiene (Poland)
- Acoustic check for the verification of DIN standards, Avis Technique issued by the French institute CSTB.
- Series of loading and breaking tests certified by the University of Padua.
- Member of the Green Building Council Italia
- Company Certified according to International Standards UNI EN ISO 9001 (Quality), UNI EN ISO 14001 (Environment) and SA 8000 (Social responsibility).
- Certification of Conformity to the Environmental Compatibility Criteria (CCA).

Sistema Atlantis

Installation method (Images and schemes referred to atlantis 50x50 cm with pipe having diameter 11 cm)



The Atlantis System is made up of three basic elements in its standard configuration: Atlantis formwork h 16 cm (A), pipe (B) diameter 110 mm (external and of a variable height, slip-on pipe base (C) with an enlarged support surface.

In order to plug the formworks laid against the wall, it is suggested to use the panel accessory made of polystyrene.

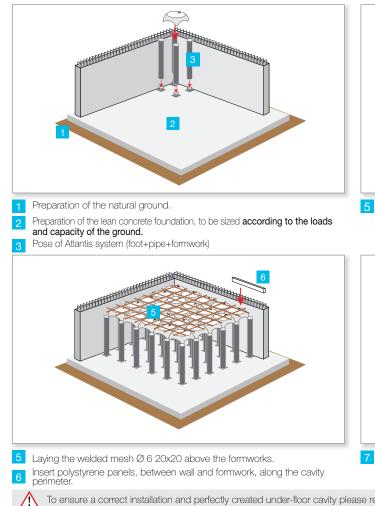
The Atlantis formworks are simple to install: the procedure consists of inserting the pipe into the slip-on base and then linking the Atlantis formwork to the far end of the pipe using the bayonet coupling. Each piece can be hooked to the adjacent piece thanks to the shaped grooves for the male/female linking. For this, simply position them in horizontal rows from the left to the right, with the arrow on the top turned outward from the operator, proceeding to the end of each row.

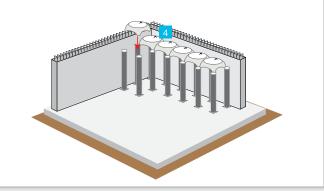
Thanks to the modularity and lightness of Atlantis, each operator will be able to position up to 30 m² per hour standing comfortably in an erect position.



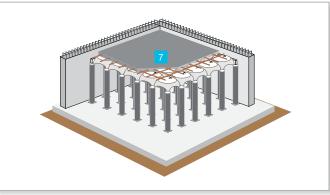
Details of the complete Atlantis System positioning sequence.

Method for creating under-floor cavities





Pose the elements from left to the right; once completed a row, proceed with next one.



Realization of concrete casting, filling previoulsy Atlantis pipes and then covering the formworks till reaching the quote of project.

To ensure a correct installation and perfectly created under-floor cavity please refer to the product's usage requirements.



Dry assembly method

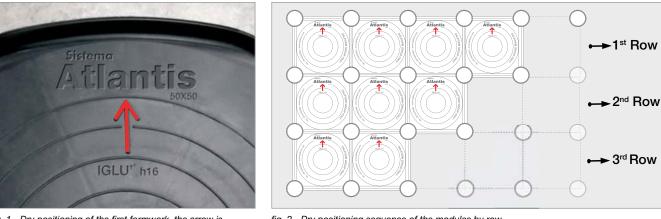


fig. 1 - Dry positioning of the first formwork, the arrow is facing the foundation curb

fig. 2 - Dry positioning sequence of the modules by row

Position the first element to the upper left with respect to the work surface, making sure that the arrow is pointing up; (*fig. 1*)

2 Unite the elements in sequence, by horizontal row, proceeding from the left towards the right and from the top downwards (following the direction normally used for writing), as shown graphically on the crown of each unit. (*fig. 2*)

Case study: renovation of a municipal swimming pool



In a municipal swimming pool the need arose to create a safe swimming environment for children. The existing pool was very deep, and this was the main problem to be solved.

Using the Atlantis system, the bottom of the pool was raised to create a smooth sloping floor. The space under the Atlantis formwork was used for utilities. The PVC pipes used in the Atlantis system was cut to size so that the new concrete floor could be level. The concrete cover had to have the same thickness. The framework was modelled to fit the curved sides of the pool.

This project demonstrates the flexibility and variety of use of the Atlantis system. The main advantage for the owner of the pool is that the Atlantis system stood as the most economical solution to renovate the pool.

Customer: Public institution Swimming pool - Area: 800 m² Capacity: concrete layer n/a Thickness: 25 cm (10") Material: Atlantis State: Existing swimming pool Installation of the system: Atlantis system 50x50 cm, pipe Ø11 cm



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Specifications

Renovation of a swimming pool through the supply and installation of recycled plastic formwork Atlantis by Daliform Group consisting of modular formworks positioned for the rapid formation, dry, of a self-bearing pedestrian-accessible platform over which to perform the concreting of C25/30 to fill the formwork to the top (level) and of an upper slab of _____ cm reinforced with welded mesh \emptyset _____ cm of mesh 20 x 20 cm, levelled and smoothed with a plastering trowel.

The Atlantis system shall be composed of recycled plastic formwork such as $Iglu^{(0)}$ with convex cover with dimensions 50x50 cm, h 16 cm and sustained by pipes \emptyset 110 mm, di h _____ cm, complete with slip on bayonet connection feet, which can be walked on when dry, guaranteeing a breaking resistance of 150 kg in correspondence of the centre of the arch with an 8 x 8 cm clamp.

or

The Atlantis 100% system shall be composed of recycled plastic formwork such as Iglù® with convex cover with dimensions 100x100 cm, h 12 cm and sustained by pipes Ø110 (or Ø160) mm, di h _____ cm, complete with slip on bayonet connection feet, which can be walked on when dry,

guaranteeing a breaking resistance of 150 kg in correspondence of the centre of the arch with an 8 x 8 cm clamp.

Formworks in recycled plastic, such as Iglù[®], for the formation of the Atlantis system, must not release polluting substances, have an Environmental Compatibility Certification and be produced by a Company Certified according to International Standards UNI EN ISO 9001 (Quality), UNI EN ISO 14001 (Environment); BSI OHSAS 18001 (Safety) and SA 8000 (Social responsibility).

The company that supplies the formworks such as **Iglù®**, for the formation of the **Atlantis system**, must also exhibit the product certificate approved by an **EOTA** (*European Organisation for Technical Approvals*) member agency.

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Including accessories, waste, cutting and all other expenses: _____ /m² _____

Supply and installation cost grid

No.	Item	U.M.	Quantity	Unit price	Total
1	Supply of Atlantis formwork L 100 x L 100 x H 12 cm	m²	1		
2	Supply of Ø 110 mm pipe with basew	no.	4		
3	Dry positioning of the Atlantis system on the foundation	H/m ²	0.05		
4	Supply and positioning of the welded mesh Ø 6/20x20 cm	Kg/m ²	2.328		
5	Supply and casting of concrete C25/30 - formwork up to the crown	m³/m²	0.034		
6	Supply and casting of concrete C25/30 - filling of the pipes $\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	m³/m²			
7	Supply and casting of concrete C25/30 - thickness upper slab	m³/m²			

* 0.036 m²/m³ per ml of pipe

Logistics - pallet capacity

MEANS OF TRANSPORT	NO. OF PALLETS	
Tractor (8.20/9.60x2.45)	14/16	B.20/9.60 × 2.45
Trailer (6.20x2.45)	10	6,20 × 2,45
Tractor+ Trailer type "BIG" (8.40+7.20x2.45)	14 + 12	8,40 x 2,45 7,20 x 2,45 0 0 0
Semi-trailer (13.60x2.45)	24	13,60×2,45
20 feet container	10*	20 feet
40 feet container	20*	40 feet

* the m² per pallet can vary based on the type of container.

The information contained in this catalogue could be changed. Before placing an order, request a confirmation or updated information from the DALIFORM GROUP, which reserves the right to make changes at any moment without notice. In consideration of recycled material, it is specified that there are tolerance margins caused by environmental factors.







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Certified Management System ISO 14001:2004 - ISO 9001:2008 - BS OHSAS 18001:2007

