

Sistema **Atlantis** *Swimming Pool*



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





**Disposable formworks for the
creation and renovation
of swimming pools**




dali*form*
GROUP
Building Innovation © Creatori dell'Iglù®

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.



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 vertical supports 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.



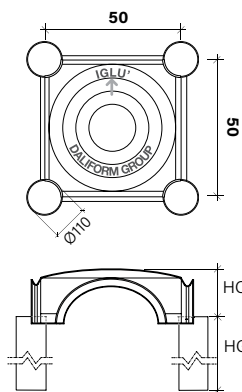
Applications

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.

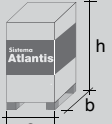
Thanks to the customizable elevator pipes, it allows the creation of inclined surfaces up to a maximum height of 300 cm. The possibility to adjust the height of the elevator tube within a centimetre also makes it possible to easily create slopes in structures that have a finished bottom and surface with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



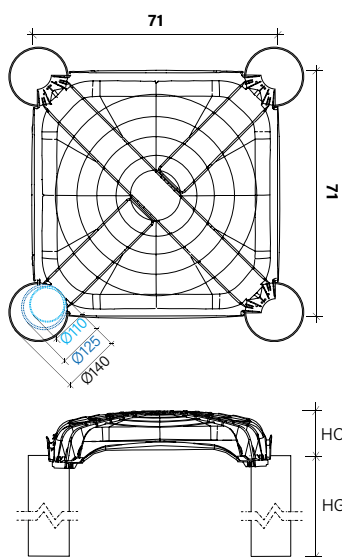
Atlantis System range




Sistema **Atlantis 50 x 50 cm**

H cm ►		from H 56 to H 80	from H 81 to H 110
Useful dimensions bxb*	cm	50 x 50	50 x 50
Dome height HC	cm	16	16
Dome weight	kg	1,680	1,680
Pipe height HG	cm	from 40 to 64	from 65 to 94
Concrete use pipe Ø 110 mm	m ³ /m ²	from 0,048 to 0,056	from 0,056 to 0,068
Pallet dimensions* 	axbxbh	110 x 110 x 250	110 x 110 x 250
	Weight kg	490	490
	Units	300	300
	m ²	75	75

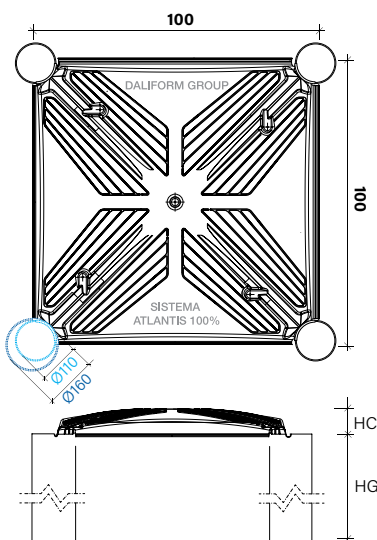
*Referred to the dome only. / The product is not affected if weathered.



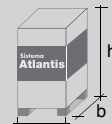
Sistema **Atlantis 71 x 71 cm**

H cm ►		from H 56 to H 80	from H 81 to H 110
Useful dimensions bxb*	cm	71 x 71	71 x 71
Dome height HC	cm	15	15
Dome weight	kg	3,093	3,093
Pipe height HG	cm	from 41 to 65	from 66 to 85
Concrete use pipe Ø 110 mm	m ³ /m ²	from 0,041 to 0,045	from 0,045 to 0,049
Concrete use pipe Ø 125 mm	m ³ /m ²	from 0,042 to 0,048	from 0,048 to 0,055
Concrete use pipe Ø 140 mm	m ³ /m ²	from 0,045 to 0,052	from 0,052 to 0,061
Pallet dimensions* 	axbxbh	79 x 149 x 259	79 x 149 x 259
	Weight kg	660	660
	Units	230	230
	m ²	115	115

*Referred to the dome only. / The product is not affected if weathered.



Sistema **Atlantis 100 x 100 cm**

H cm ►		from H 56 to H 80	from H 81 to H 110
Useful dimensions bxb*	cm	100 x 100	100 x 100
Dome height HC	cm	12	12
Dome weight	kg	10,164	10,164
Pipe height HG	cm	from 44 to 68	from 69 to 98
Concrete use pipe Ø 110 mm	m ³ /m ²	from 0,038 to 0,040	from 0,040 to 0,043
Concrete use pipe Ø 160 mm	m ³ /m ²	from 0,043 to 0,047	from 0,047 to 0,053
Pallet dimensions* 	axbxbh	110 x 110 x 254	110 x 110 x 254
	Weight kg	700	700
	Units	70	70
	m ²	70	70

*Referred to the dome only. / The product is not affected if weathered.



from H 111 to H 140	from H 141 to H 170	from H 171 to H 200	from H 201 to H 230	from H 231 to H 260	from H 261 to H 300
50 x 50	50 x 50	50 x 50	50 x 50	50 x 50	50 x 50
16	16	16	16	16	16
1,680	1,680	1,680	1,680	1,680	1,680
from 95 to 124	from 125 to 154	from 155 to 184	from 185 to 214	from 215 to 244	from 245 to 284
from 0,068 to 0,079	from 0,079 to 0,089	from 0,089 to 0,100	from 0,100 to 0,111	from 0,111 to 0,122	from 0,122 to 0,136
110 x 110 x 250	110 x 110 x 250	110 x 110 x 250	110 x 110 x 250	110 x 110 x 250	110 x 110 x 250
490	490	490	490	490	490
300	300	300	300	300	300
75	75	75	75	75	75



from H 111 to H 140	from H 141 to H 170	from H 171 to H 200	from H 201 to H 230	from H 231 to H 260	from H 261 to H 300
71 x 71	71 x 71	71 x 71	71 x 71	71 x 71	71 x 71
15	15	15	15	15	15
3,093	3,093	3,093	3,093	3,093	3,093
from 86 to 125	from 126 to 155	from 156 to 185	from 186 to 215	from 216 to 245	from 246 to 285
from 0,049 to 0,056	from 0,056 to 0,061	from 0,061 to 0,067	from 0,067 to 0,072	from 0,072 to 0,078	from 0,078 to 0,085
from 0,055 to 0,062	from 0,062 to 0,069	from 0,069 to 0,076	from 0,076 to 0,082	from 0,082 to 0,089	from 0,089 to 0,099
from 0,061 to 0,069	from 0,069 to 0,078	from 0,078 to 0,087	from 0,087 to 0,095	from 0,095 to 0,104	from 0,104 to 0,116
79 x 149 x 259	79 x 149 x 259	79 x 149 x 259	79 x 149 x 259	79 x 149 x 259	79 x 149 x 259
660	660	660	660	660	660
230	230	230	230	230	230
115	115	115	115	115	115



from H 111 to H 140	from H 141 to H 170	from H 171 to H 200	from H 201 to H 230	from H 231 to H 260	from H 261 to H 300
100 x 100	100 x 100	100 x 100	100 x 100	100 x 100	100 x 100
12	12	12	12	12	12
10,164	10,164	10,164	10,164	10,164	10,164
from 99 to 128	from 129 to 158	from 159 to 188	from 189 to 218	from 219 to 248	from 249 to 288
from 0,043 to 0,046	from 0,046 to 0,049	from 0,049 to 0,051	from 0,051 to 0,054	from 0,054 to 0,057	from 0,057 to 0,060
from 0,053 to 0,059	from 0,059 to 0,065	from 0,065 to 0,070	from 0,070 to 0,076	from 0,076 to 0,082	from 0,082 to 0,088
110 x 110 x 254	110 x 110 x 254	110 x 110 x 254	110 x 110 x 254	110 x 110 x 254	110 x 110 x 254
700	700	700	700	700	700
70	70	70	70	70	70
70	70	70	70	70	70

Table of pre-dimensioning

referred to Atlantis System 50x50 / 71x71 / 100x100 cm of h 100 cm with pipe Ø 110 mm

Products	Overload	Hood thickness	Water height	Welded mesh	
	kg/m ²	cm	m	mm	mesh cm
Atlantis 50x50 cm	2000	4	2	Ø 6	20 x 20
Atlantis 71x71 cm	2000	6	2	Ø 8	15 x 15
Atlantis 100x100 cm	2000	10	2	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.

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



Installation method (Images and schemes referred to Atlantis 50x50 cm with Ø 110 mm pipe)

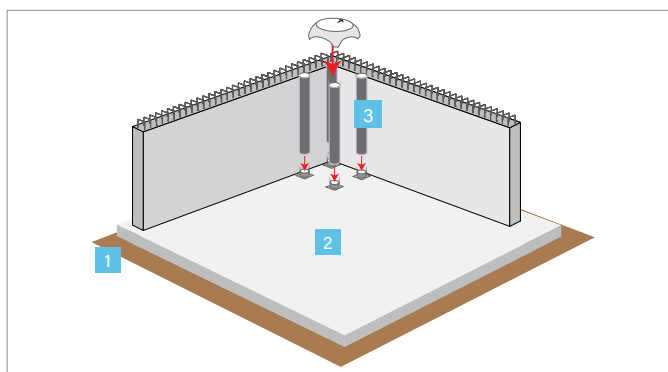


The Atlantis System is made up of three basic elements in its standard configuration: Atlantis formwork h 16 cm (A), pipe (B) diameter 110 mm (external) and variable height, foot (C).

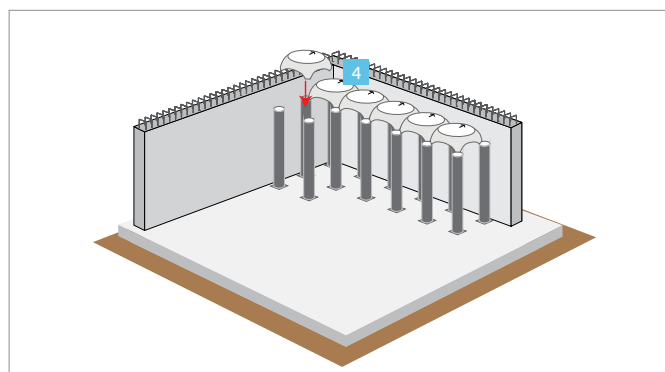
In order to plug the formworks laid against the wall, it is suggested to use the **Tympanum** accessory. The Atlantis formworks are simple to install: the procedure consists of inserting the pipe into the slip-on base and then linking the Atlantis formwork to the far end of the pipe using the **bayonet 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.

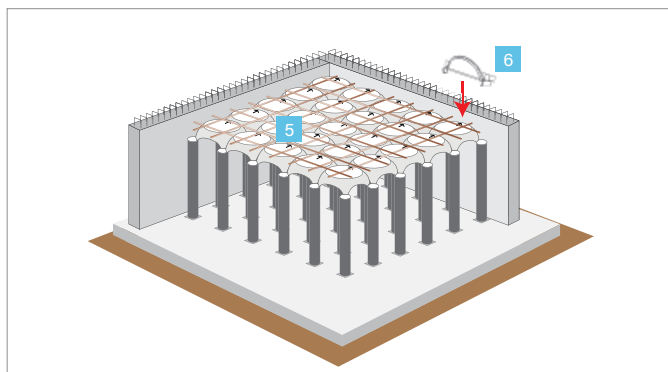
Thanks to the modularity and lightness of Atlantis, each operator will be able to position up to 30 sqm per hour standing comfortably in an erect position.



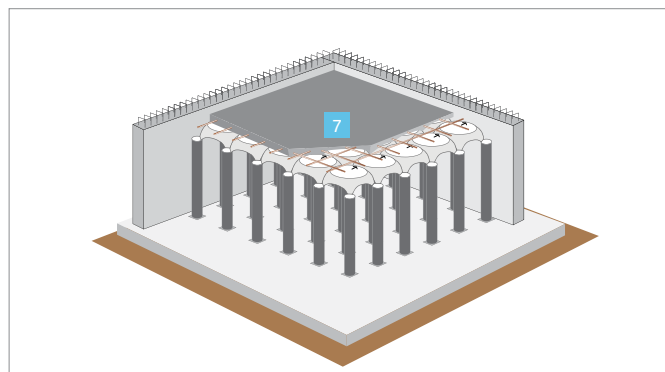
- 1 Preparation of the natural ground.
- 2 Preparation of the lean concrete foundation, to be sized according to the loads and capacity of the ground.
- 3 Pose of Atlantis system (foot+pipe+formwork)



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



- 5 Laying the welded mesh Ø 6 20x20 above the formworks.
- 6 Insert the Tympanum accessory, between wall and formwork, along the cavity perimeter.

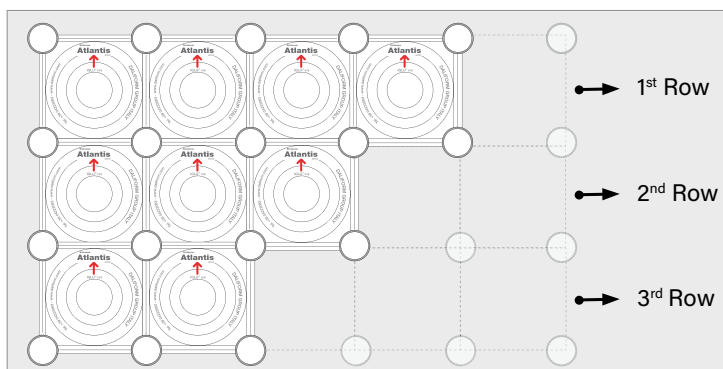


- 7 Realization of concrete casting, filling previously Atlantis pipes and then covering the formworks till reaching the quote of project.



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

Dry assembly method



- 1 Position the first element to the upper left with respect to the work surface, making sure that the arrow is pointing up;

- 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.

Accessories

Tympanum



The Tympanum is an accessory with compensation and occlusion function, to be used in combination with the wall or whenever necessary.

The Tympanum is equipped with flexible vertical slats to adhere perfectly to the wall even in the presence of roughness and irregularity of the latter.

The accessory is made of recycled PP (Alaplen®) and is available for all sizes of the Atlantis System: 50x50 cm; 71x71 and 100x100.



Tympanum
for Atlantis System 50x50



Tympanum
for Atlantis System 71x71



Tympanum
for Atlantis System 100x100

Product for the system:	Piece weight (kg)	Pieces per box (pcs)	Pieces per pallet (pcs/PAL)	Pallet dimensions (cm)	Pallet weight (kg/PAL)
ATL 50	0,175	84	2.520	100 x 120 x 255	486
ATL 71 Ø110	0,245	28	672	100 x 120 x 217	210
ATL 71 Ø125	0,261	28	672	100 x 120 x 217	220
ATL 71 Ø140	0,271	28	672	100 x 120 x 217	230
ATL 100 Ø110	0,395	100	400	80 x 120 x 115	200
ATL 100 Ø160	0,457	72	288	80 x 120 x 115	180

Shelf



The Shelf is an accessory with compensation and occlusion function to be used whenever the dimensions of the intervention area do not correspond to an exact multiple of the Atlantis formwork measurements.

The Shelf accessory is made of recycled PP (Alaplen®) and is available for all sizes of the Atlantis System: 50x50 cm; 71x71 and 100x100.



Shelf
for Atlantis System 50x50



Shelf
for Atlantis System 71x71



Shelf
for Atlantis System 100x100

Product for the system:	Piece weight (kg)	Pieces per box (pcs)	Pieces per pallet (pcs/PAL)	Pallet dimensions (cm)	Pallet weight (kg/PAL)
ATL 50	0,223	48	1.440	100 x 120 x 255	115
ATL 71	0,299	60	240	80 x 120 x 115	115
ATL 100	0,546	72	288	80 x 120 x 115	200

Angle



Angular occlusion element.

Universal element that adapts to all pipe diameters available in the Atlantis System.

The Angle element is made of recycled PP (Alaplen®) and is available for all sizes of the Atlantis System: 50x50 cm; 71x71 and 100x100.

Product for the system:	Piece weight (kg)	Pieces per box (pcs)	Pieces per pallet (pcs/PAL)	Pallet dimensions (cm)	Pallet weight (kg/PAL)
UNIVERSAL	0,020	300	9.600	110 x 110 x 191	226

Accessories

Flange



The Flange is an accessory with reinforcement to compensation function. The accessory is made of recycled PP (Alaplen®) and is available for all sizes of the Atlantis System: 50x50 cm; 71x71 and 100x100, but only with the Ø 110 mm pipe.

Flange type:	Piece weight (kg)	Pieces per box (pcs)	Pieces per pallet (pcs/PAL)	Pallet dimensions (cm)	Pallet weight (kg/PAL)
FOR PIPE Ø 110 mm	0,588	17	510	110 x 110 x 191	344

Hook



The Hook is an accessory with reinforcement to compensation function. The accessory is made of recycled PP (Alaplen®) and is available for all sizes of the Atlantis System: 50x50 cm; 71x71 and 100x100.

Product for the system:	Piece weight (kg)	Pieces per box (pcs)	Pieces per pallet (pcs/PAL)	Pallet dimensions (cm)	Pallet weight (kg/PAL)
UNIVERSAL	0,099	80	2.560	110 x 110 x 255	283

Compensation panel



The Compensation panel is an accessory with compensation and occlusion function.

Dimensions (cm)	Thickness (cm)	Piece weight (kg)	Pieces per pallet (pcs/PAL)	M² pallet (m²/PAL)	Pallet dimensions (cm)	Pallet weight (kg/PAL)
200 x 500	1	2,000	200	200	200 x 110 x 120	420

Spacer



The Spacer is an accessory used to ensure the perpendicularity of the Atlantis System pipes.

The accessory is made of recycled PP (Alaplen®), is available for all sizes of the Atlantis System: 50x50 cm; 71x71 and 100x100 and it is usable only with the UNIVERSAL foot.

Product for the system:	Piece weight (kg)	Pieces per box (pcs)	Pieces per pallet (pcs/PAL)	Pallet dimensions (cm)	Pallet weight (kg/PAL)
ATL 50	0,042	360	9.840	100 x 120 x 217	461
ATL 71	0,068	270	6.480	110 x 120 x 217	490
ATL 100	0,105	180	4.320	110 x 120 x 217	501

The Atlantis System 50x50, for each square meter, needs 8 spacers.
The Atlantis System 71x71, for each square meter, needs 4 spacers.
The Atlantis System 100x100, for each square meter, needs 2 spacers.

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 Ø _____ 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® with convex cover with dimensions 50x50 cm, h 16 cm and sustained by pipes Ø110 mm, di h _____ cm, complete with slip on bayonet connection feet, which can be walked on when dry, guaranteeing a breaking resistance of 200 kg in correspondence of the centre of the arch with an 8 x 8 cm clamp.

or

The Atlantis System shall be composed of recycled plastic formwork such as Iglu® with convex cover with dimensions 71x71 cm, h 15 cm and sustained by pipes Ø110 (or Ø125 or Ø140) 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 System shall be composed of recycled plastic formwork such as Iglu® 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 200 kg in correspondence of the centre of the arch with an 8 x 8 cm clamp.

Formworks in recycled plastic, such as Iglu®, for the formation of the Atlantis system, must be made of "ALAPLEN® CP30", 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); UNI EN ISO 45001 (Safety) and SA 8000 (Social responsibility).

The company that supplies the formworks such as Iglu®, for the formation of the Atlantis system, must provide the technical and security sheet of the product and the granule "ALAPLEN® CP30" and also exhibit the product certificate approved by an EOTA (European Organisation for Technical Approvals) member agency.

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

Supply and installation cost grid




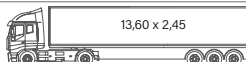


Sample referred to Atlantis system 100x100 cm having pipe Ø 110 mm

No.	Item	U.M.	Quantity	Unite 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 base	no.	4		
3	Dry positioning of the Atlantis system on the foundation	h/m²	0,05		
4	Supply and positioning of the welded mesh Ø 6/20x20 cm	kg/m²	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 m³/m² per m of pipe

Total cost €/m²

Logistics - pallet capacity

MEANS OF TRANSPORT	NO. PALLET ATL 50x50	NO. PALLET ATL 71x71	NO. PALLET ATL 100x100	
Tractor (8,20/9,60x2,45)	14/16	15/18	14/16	
Trailer (6,20x2,45)	10	12	10	
Tractor + Trailer type "BIG" (8,40+7,20x2,45)	14+12	15+12	14+12	
Semi-trailer (13,60x2,45)	24	27	24	
20 feet container	10*	10*	10*	 20 feet
40 feet container	22*	24*	20*	 40 feet

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



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Certified Management System UNI EN ISO 9001,
UNI EN ISO 14001, UNI EN ISO 45001, SA 8000

Partner of
GBC Italia

Rating di legalità: ★★+

