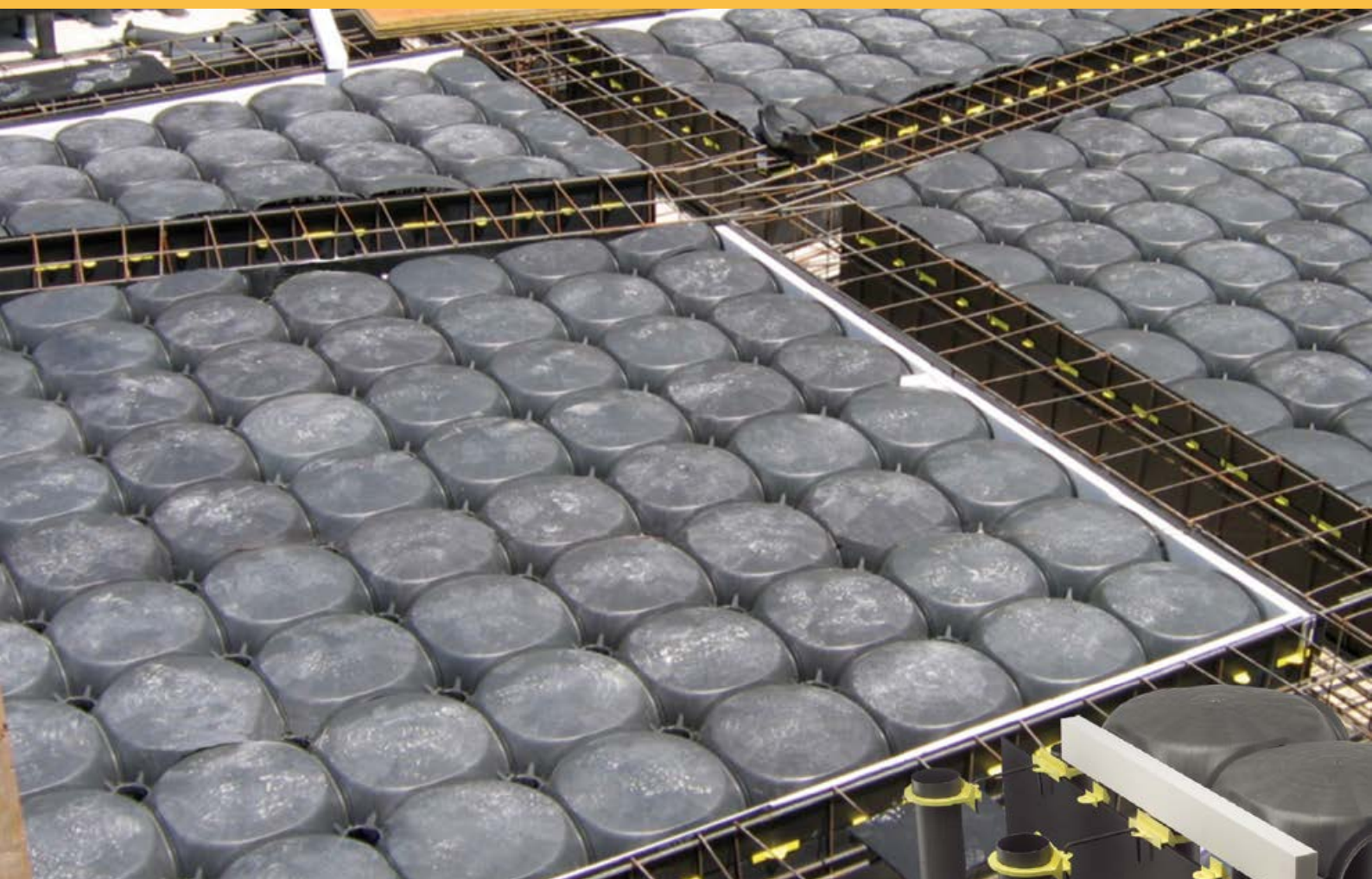


# Cassaforma Muro

[www.daliform.com](http://www.daliform.com)



**Permanent formworks for the  
simultaneous casting of  
foundation beams and the slab**



KEY:



Water, collection tanks



Foundations



SWITCHBOARD

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variable height from 56 cm to 150 cm

## Cassaforma Muro

Cassaforma Muro (*Wall formwork*) was designed as an alternative to traditional wood shuttering, which permits casting walls at a height, reversed beams and foundation bases, drastically reducing the time for creating the foundation.

This permanent formwork consists of a combination of pipes, panels, collars and stirrups all made of polypropylene.

In combination with the Atlantis system, the Wall formwork makes it possible to create foundation beams and a slab, which optimises and speeds up the work in the building site, with considerable economic implications. For this reason this system is greatly appreciated for the creation of water collection and/or dispersion tanks, which are always needed in various construction contexts.

Due to its easy, quick positioning, it is also perfectly suited for creating ribbed rafts, where the empty spaces between the beams are filled by Atlantis System formworks.





## Advantages



Muro Formwork in coherence with its purpose, which is quick and easy work in the construction site, is characterised by simple, lightweight parts that permit intuitive and quick assembly with multiple advantages:

- Less time used for shuttering and deshuttering.
- Saving time in cleaning the planking, which will be smooth and clean.
- Saving time and expenses related to storing, depositing and transporting formworks; the material is not bulky and is not affected by bad weather.
- A specialised workforce is not required.
- Simultaneous casting of the foundation beams and slab if combined with the Atlantis system.

## Applications

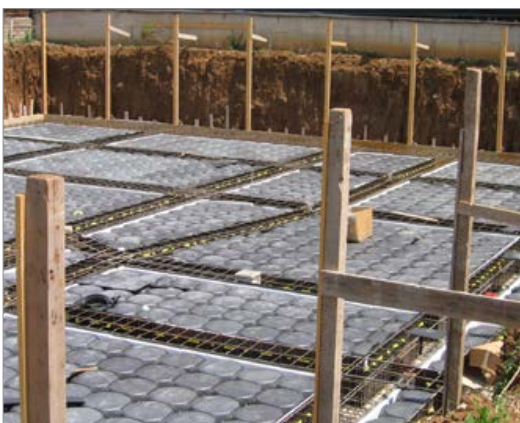


For the creation, in a single solution, of an upper slab (cavities) and internal and perimetric foundation beams for a structure.

For the creation of ribbed rafts (structures not used often normally due to the excessive work of shuttering and deshuttering).

For the creation of water dispersion and/or collection tanks.

For any project that requires, for a variety of reasons, elaborate and geometrically complex shuttering.

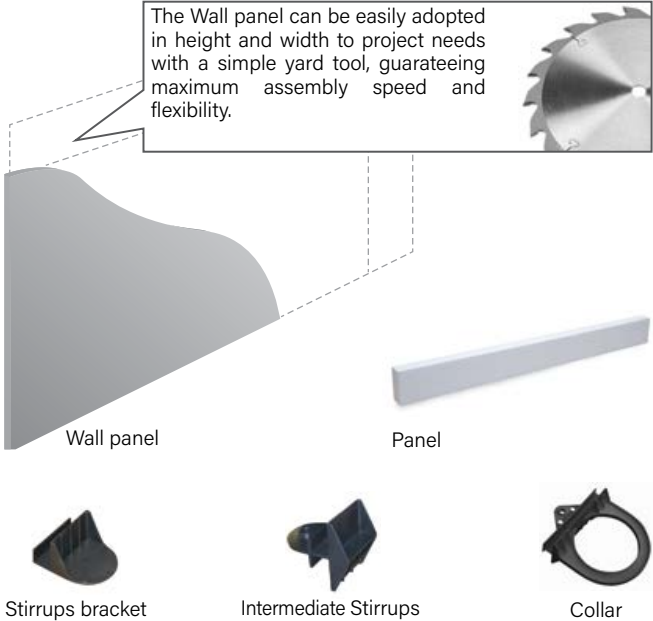


Technical data

Component quantity table based on the height of the Atlantis unit

Atlantis height	Stirrups pcs/lm*	Collars pcs/lm*	Inner Stirrups pcs/lm*	Panel lm/lm*
60	2	2	2	1,0
70	2	2	2	1,3
80	4	4	2	1,5
90	4	4	2	1,7
100	4	4	2	2,0
110	4	4	2	2,0
120	4	4	2	2,3
130	6	6	2	2,5
140	6	6	2	2,7
150	6	6	2	3,0

\* Linear metres in reference to the length of each formwork wall.  
The product is not affected if weathered.



Supply and installation cost grid

No.	Item	U.M.	Quantity/m <sup>2</sup>	Unit price	Total
1	Supply of the "Wall" panel for Atlantis h=76cm	m <sup>2</sup> /lm	0.700		
2	Collar supply	no/lm	2		
3	Supply of the lower stirrup	no/lm	2		
4	Supply of the intermediate stirrup	no/lm	2		
5	Supply and positioning of the connection forks	kg/lm			
6	Dry positioning of the Wall formwork and accessories	hours	0.010		
				Total cost d/m <sup>2</sup>	



## Creating a foundation and under-floor cavity with Muro and Atlantis Formworks



1 Placing the foundation reinforcements on the prepared light concrete base.



2 Nailing along the inner and perimetric foundation beams of the lower stirrups and pipe base at an equal distance, approx. every 50 cm.



3 Place the initial panel by inserting it in the guide of the lower stirrups and fasten it on the top with the collars inserted on the pillars.



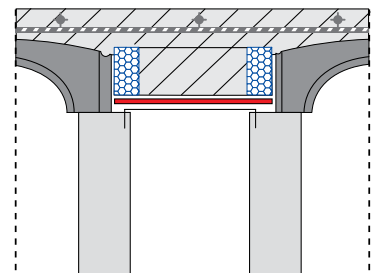
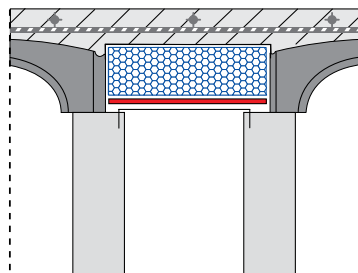
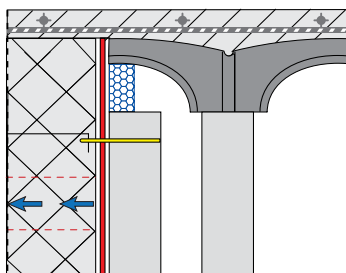
4 After assembling the first Atlantis formworks, position the intermediate stirrups on the panel and then connect the stirrups and collars of the opposing pillars with the steel forks (to be prepared in the construction site).



5 Position other panels on top, always fastening them with stirrups and collars, based on the necessary height to be reached. Complete assembling the Atlantis modules and plugging up the side that remained open in the formwork along the perimeter with polystyrene panels.



6 Start casting the concrete starting from the pillars, continuing with the curbs and the slab.



Construction details showing the various solutions targeted towards compensating structures if the inner dimensions of the under-floor cavity are not exact multiples of the Atlantis formwork.

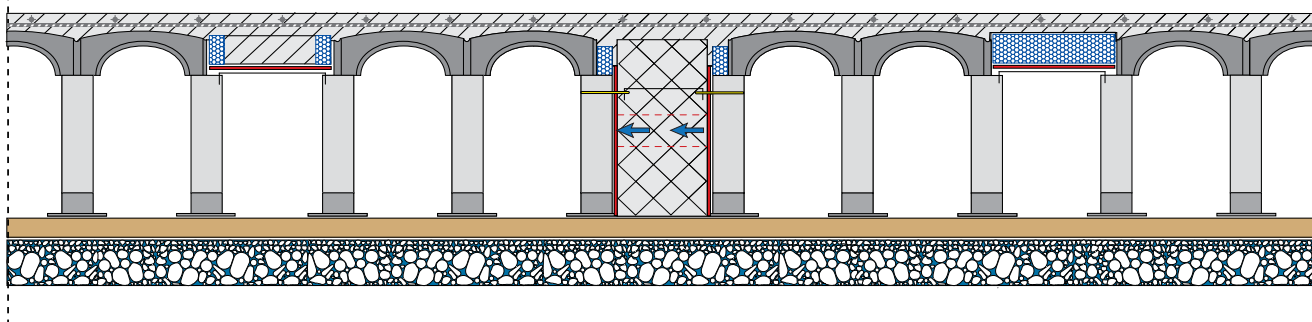
## Certifications



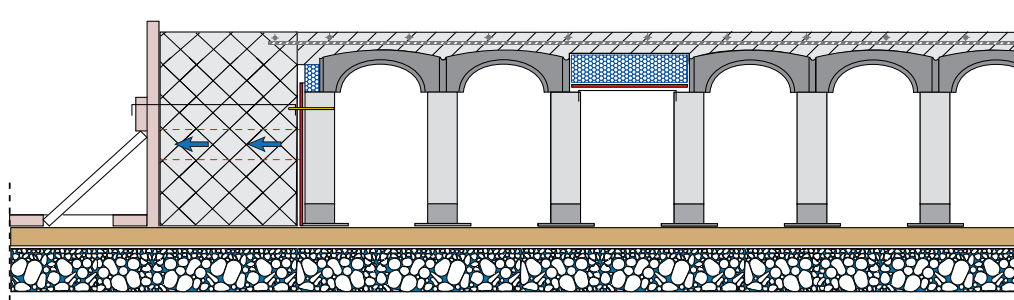
Daliform Group products comply with the strictest international standards and have received product certifications.

A series of rupture load tests have been carried out and certified by the University of Padua as well as "Productive process monitoring tests".

## Application examples



Intermediate foundation section with cut formworks.



Perimeter section of the cavity with Atlantis and Muro.

## Daliform Group technical office



### FEASIBILITY STUDY

Predimensioning and optimisation of the structures, comparative and/or revised proposals, material and manpower estimates, cost analysis.  
Evaluation of forced ventilation in the case of cold rooms.

### CALCULATION REPORT

Reports certifying the execution of Daliform Group constructive systems.



### SUPPORT FOR THE EXECUTIVE DESIGN

Support by design professionals. Upon request, the formwork positioning plan can be supplied with a list of the products required to carry out the work and the relative accessories.

### ON-SITE SUPPORT

If necessary, our technical staff can be present on-site to help the construction company during the operational phase.

The technical consultancy is only valid for the Daliform Group construction systems.

To contact the technical office: Tel. +39 0422 2083 - [tecnico@daliform.com](mailto:tecnico@daliform.com)

To obtain updated technical cards, support material, new photos and case studies, go to [www.daliform.com](http://www.daliform.com)

## Specifications

Creation of a lightened raft in reinforced concrete with a total thickness of \_\_\_\_\_ cm. The formwork spaces will be created on site through the combined use of recycled plastic formworks, such as "Atlantis" and "Wall formwork" from the Daliform Group. The project will be carried out as specified below:

a) Supply and laying of steel bars and welded mesh to create the first slab on the ground, and the vertical stiffeners (internal and perimeter plates) for the raft.

Price €/kg \_\_\_\_\_

b) Formation of the first slab on the ground for the lightened raft through the supply and pouring of concrete, resistance class 20/25 to a height of cm \_\_\_\_\_ suitably vibrated and finished with a straight edge outside of the vertical cages for the inner and perimetric subdivision of the raft, constituting the vertical stiffeners.

Price €/kg \_\_\_\_\_

c) Formation of the formwork necessary for creating the vertical stiffeners of the lightened raft in reinforced concrete through the supply and positioning of vertical "permanent" formwork such as the "Wall formwork" from the Daliform Group consisting of cane honeycomb panels in polypropylene, 50 x 200 cm thickness 1 cm weight 3kg/pcs, including intermediate polypropylene stirrups, collars for polypropylene "Atlantis" pipes, inner Ø 110mm, lower polypropylene stirrups for anchoring to the ground, with nails, of the steel "C" shaped spacer stirrups to restrain the pressure of the concrete, nails and consumables needed for an efficient and quick casting phase. Including expenses for aligning with the work for placing the horizontal "Atlantis" formwork.

Per face Price €/kg \_\_\_\_\_

d) Formation of the formwork necessary to construct the upper portion of the horizontal closure of the lightened raft through the supply and positioning of the "Atlantis" permanent formworks in recycled plastic from the Daliform Group. The formation will be carried out at the same time as the installation of the "Wall formwork" (vertical stiffeners) for the external bordering; the "Atlantis" formwork is formed by the ordered succession, in a clockwise direction, of the "Iglu"® modules from the Daliform Group, whose edges overlap by at least 3 cm, with curved fork feet and dimensions equal to one quarter of the pipe, for a bayonet connection on the edge of a supplied, vertically positioned pipe with an external Ø of 110 mm and thickness of 1.8 mm onto which a previously supplied flat closure foot, with slots against the ground and two opposed vertical pre-fractures in the housing guide, will be hooked to the other end. Installation centre distance between the vertical support pipes to the "Iglu"® module, 50 cm along two perpendicular directions. Total max height of the base for the formwork cm \_\_\_\_\_; the cost for the creation of holes with the dimensions and sections foreseen by the architectural drawings is included. The price is considered as including and covering all costs for providing the finished work in a workmanlike manner. It must be possible to safely walk on the horizontal "Atlantis" modules and they must be certified to resist a load of 150 kg in the weakest point with test pressure on the square support of 8 x 8 cm; they must not release polluting substances and have an **Environmental Compatibility Certification** and be produced by a company that is equipped with an Integrated Management System (ISO 9001, ISO 14001, ISO 45001, SA 8000); the company supplying the "Atlantis" modules must report constructively to the designer and the yard manager upon supply and prior to the creation of the slab, adapting their product to the executive design, integrating it when necessary, the company must also exhibit the product certificate approved by an EOTA member agency (*European Organisation for Technical Approvals*).

Price €/kg \_\_\_\_\_

e) Supply and laying of steel bars and welded mesh to create the upper slab of the lightened raft to be placed on the top of the horizontal formwork "Atlantis" with the raft's vertical stiffeners (internal and perimeter plates) passing above.

Price €/kg \_\_\_\_\_

f) Supply and pouring of concrete, resistance class C25/30, first for filling the "Wall formworks" (which form the vertical stiffeners, that is, the inner and perimetric divisions of the raft) and subsequent continuous pouring of the concrete on the horizontal platform of "Atlantis" formworks, which first saturates the pipes and then creates the upper slab of the raft until a minimum thickness is obtained from the top of the "Atlantis" formworks of cm \_\_\_\_\_ suitably vibrated and finished with a straight edge.

Price €/kg \_\_\_\_\_







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DC\_MU - Rev. 11\_08/2024

Made in Italy

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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: ★★+