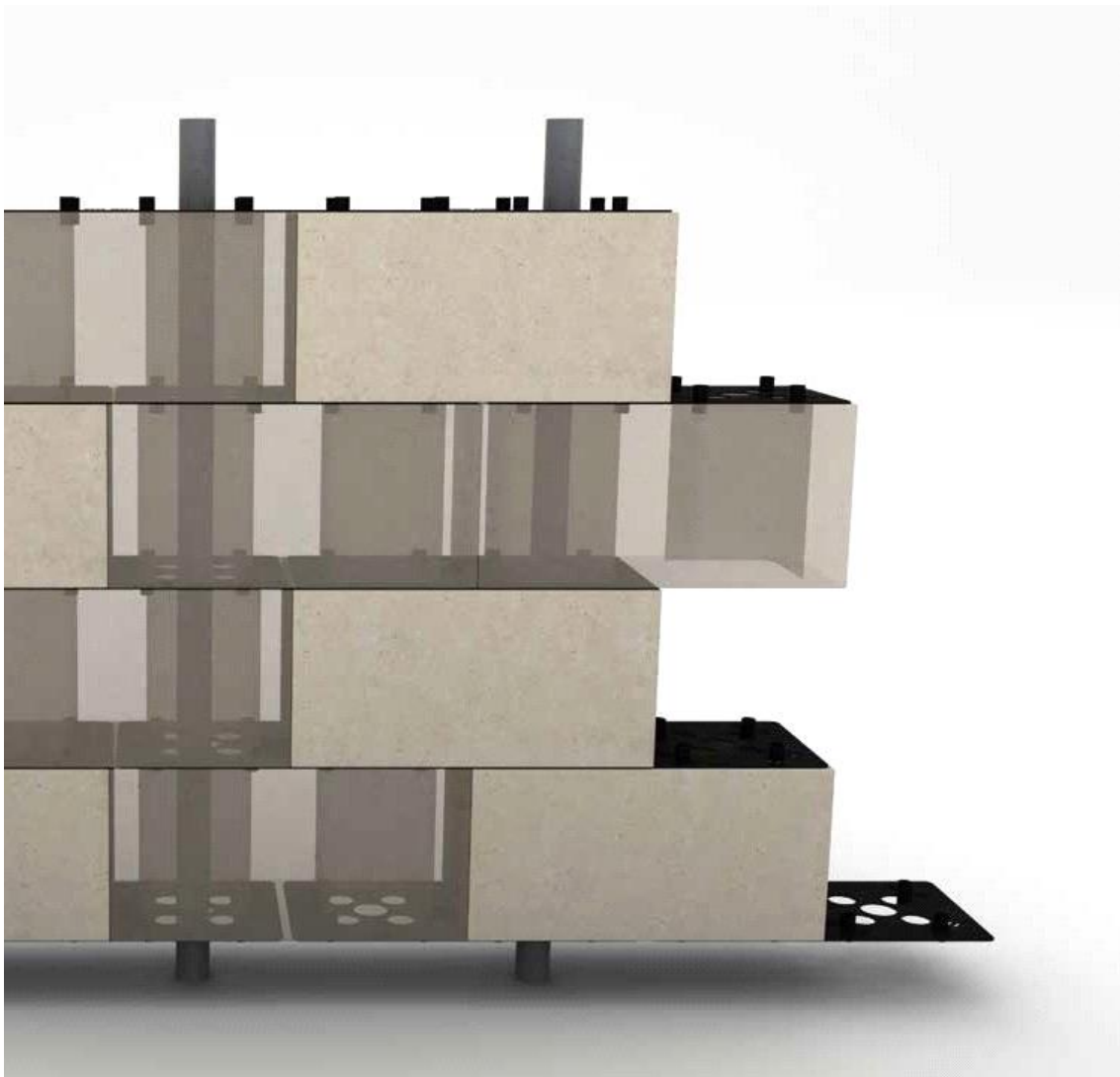


Dry construction system

Fast / Easy / Clean / Removable

Self-Construction / Recoverable / Economic

“BLOCK FAST”



1-”BLOCK FAST SYSTEM”

”Block Fast” is an innovative dry construction system consisting of the union of prefabricated concrete blocks by specially designed connectors, allowing dispense the use of mortar for bonding the concrete blocks.

Through this system and for each of its different applications, a process of mounting is achieved, economic, safe, clean and, above all, fast

The system consists mainly of the following elements:

- ▶ **Technical concrete block**
- ▶ **”Block Fast”connector**
- ▶ **Galvanized steel pipe**

Additionally, the system is complemented by a series of auxiliary elements, that allow, solve various constructive solutions in each of its applications (eg anchors to the concrete slab, binding covers, enclosures and / or divisions, lintels, etc.).

”Block Fast”, patented and with full production in Spain. -the connector allows attachment of concrete precast technical blocks both horizontally and vertically ,through, the fit of the block with the connector, also is used steel pipes galvanized as It helps in overcoming the vertical forces.

Through this connector is achieved by defining a system characterized by ease of modulation diversity of elements, not requiring special finishes and getting itself to reach a speed and extreme cleanliness in the performance of work due to the absence of the use of mortars.

Depending on the constructive application, the versatility offered by the ”Block Fast system” configures it as an efficient alternative to traditional construction system or as a perfect complement to it .

2. The system elements

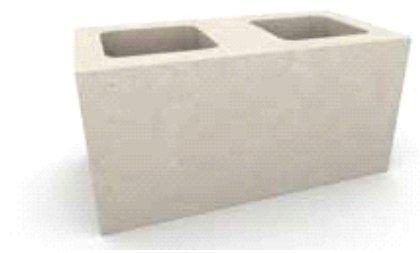
The main elements of Block Fast system are as follows:

A. technical blocks of precast concrete

Blocks with dimensions and special shapes, designed to ensure the perfect union between the block and the Block Fast connector.

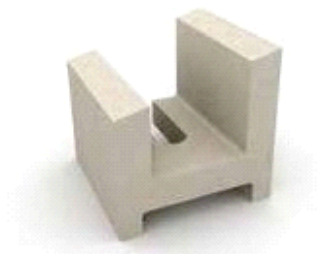
Standard pieces (Length x Width x High mm):

- ▷ 400x200x200
- ▷ 200x200x200

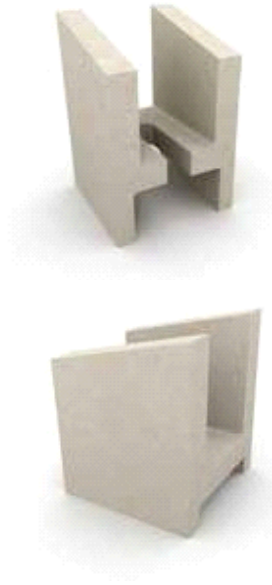


special parts for roof slope formation

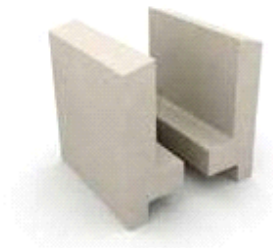
- ▷ Pieces HP1yHP2, used in sides and partitions in housing and modules.



▷ Pieces HC1 y HC2, used for set square in housing and modules.



▷ used in the ridge of the house and modules.



▷ regulator block, block used in any application system,

Sizes: (Length x Width x Height mm) 400x200x100

“Block fast system” are manufactured according CE normatives,

It has high waterproof and fireproof properties

Additionally, these blocks can be used as load bearing blocks as they offer compression value comfortably above the minimum required by the regulations.

B- block fast connector

“Block fast connector” is manufactured by injection of treated polypropylene, guarantees optimum performance in the vertical tensile strength, Compression, horizontal strength and durability.

As important finding, the benefits obtained in shear are higher than those required by the applicable regulations for mortar M10.

Its design allows a very versatile modulation of concrete blocks, offering different possibilities of joining both vertically and horizontal level. Similarly, and through its various openings, the Block Fast connector facilitates the assembly of the building structure and the channeling of the various facilities for conditioning it.



c. galvanized steel pipes

Galvanized steel tubes are used in the "block fast system" for performing of additional structural or rigidity functions

- ▷ **Structural tubes:** allow to form the structure of the building making the joint foundation and constructive coronation when the application requires it.
- ▷ **Stiffness tubes,** are used to provide additional rigidity to the block - connector , thus ensuring proper alignment of the blocks.

These pipes are always incorporated into the building construction



3. Main advantages of Fast block system

The main advantages of the use of Fast Block system could be summarized as follows:

- ▶ The system offers speedier performance with absence of elements such as sinkers, mortar materials, etc.
- ▶ The system in most applications can be recover in full for subsequent use in other construction or for modification of the existing
- ▶ Great ability to absorb vibrations and movements due to low transmitting stiffness compared to traditional cement blocks .
- ▶ The simplicity of the system allows the use of unskilled workers in most possible constructive applications for the system
- ▶ This enables design your self-construction system
- ▶ The use of prefabricated provides savings in procurement materials to the extent that no surplus generated.
- ▶ Similarly, prefabricated materials contribute to System Cleaning the work area and at a level of waste in very low work.
- .
- ▶ In the same vein, the use of prefabricated allows the execution of the work regardless of weather conditions.
- ▶ don't need to make channels in the concrete blocks. In case of introduce facilities, they will go housed on the inside of the blocks.
- ▶ The polypropylene technician connector is recyclable
- ▶ The system involves a great simplicity of supply of materials to the work
- ▶ Additionally, the system only requires the use of basic tools, without concrete mixer truck, drawer, etc.

4. Applications

Here are some of the different buildings' applications where you can use the Fast Block system.

A. fenced / Enclosure of piece of ground

This application is the simplest use of "Block fast" system since it is not necessary in these cases to include infrastructure for placement the facilities. "Block fast" system is ideal in fenced/ enclosure

▷It is not required for assembly qualified personnel, and two people are sufficing for the execution of the work

▷if the land have suitable characteristics , don't need to realize any job in the land

▷It gets a performance 50% higher than standard performance the traditional method of construction.

▷The use of prefabricated lets not to be subject to the weather conditions in the execution of the work.

▷The system, once implemented, is modifiable and recoverable full, allowing opening or closing holes as needed in the fence or enclosure without having to discard material already used or using new materials.

B. Closing of warehouses and interior partitions of buildings

The use of "Block fast System" in the enclosure of warehouses and the internal divisions of all types of buildings is an alternative to traditional construction system because:

▷don't need mortar for joining blocks, so cleaning when mounting the enclosure and divisions is maximum.

▷No raw material such as sand, cement, water, etc., or construction tools are needed , so it is possible to carry out the work without basic supplies of electricity and water or equipment, the realization of it can be possible without interrupting the activity carried out on the warehouse , commercial, office, etc.

▷The yield obtained in the execution of the work is 50% higher than performance in the assembly of traditional work.

C. Housing

Employing "Block fast System" for conducting a standardized quality housing offers several advantages compared to traditional construction system in terms of speed, performance and simplicity.

These advantages are, in summary, the following:

▷It is not required for assembly qualified personnel

▷Once we have the concrete floor, the house assembly you can be performed with a team of three people, being mounted housing facades, interior partitions, windows, exterior doors and cover in 3 days (for a house of about 60 m2).

▷The design of the connector "Block fast". for to apply electrical and water installations in a simple way, so that it is not necessary to make channels to the facade or the interior partitions of the housing, thereby achieving an increase in runtime performance at both masonry and facilities.

▷If the start of the project defined materials for finishing tiling the kitchen and the toilet, factory can make the pre-tiling to the blocks, so that a higher yield is obtained when finishing the house.

▷It is not necessary to supply electricity or water in the place of the house execution , simply with a small generator can perform all the operations necessary for installation and termination thereof.

D. Modules

"Block Fast" System also allows the realization of modules of various shapes and sizes, being very useful in cases where it is required for small but necessary construction for any purpose such as modules for animals, portable toilets, booths surveillance, work site, modules for safe guard ,equipment or machinery, cottages, garages, commercial stands, tents, etc.

The advantages of this type of application are as follows:

▷**fast construction without qualified workers or tools**

▷**The supply of electricity and water at the site of the module is not necessary, to use a power generator for using the small tools only**

▷**Higher quality, strength and durability compared to the market of prefabricated modules alternatives.**

▷**Possibility of disassembling the module if necessary (Temporary structures), you can use again the pieces of your house or building , for one modification or another different building**

E. Garden and street furniture

"Block fast" System is like a Lego , it allows self-construct design and furniture arrangements for smaller gardens, housing estates, ornaments ...





Constructive ideas,
Gardens with "block fast" **system**







Constructive ideas in enclosures and divisions with "block fast" system









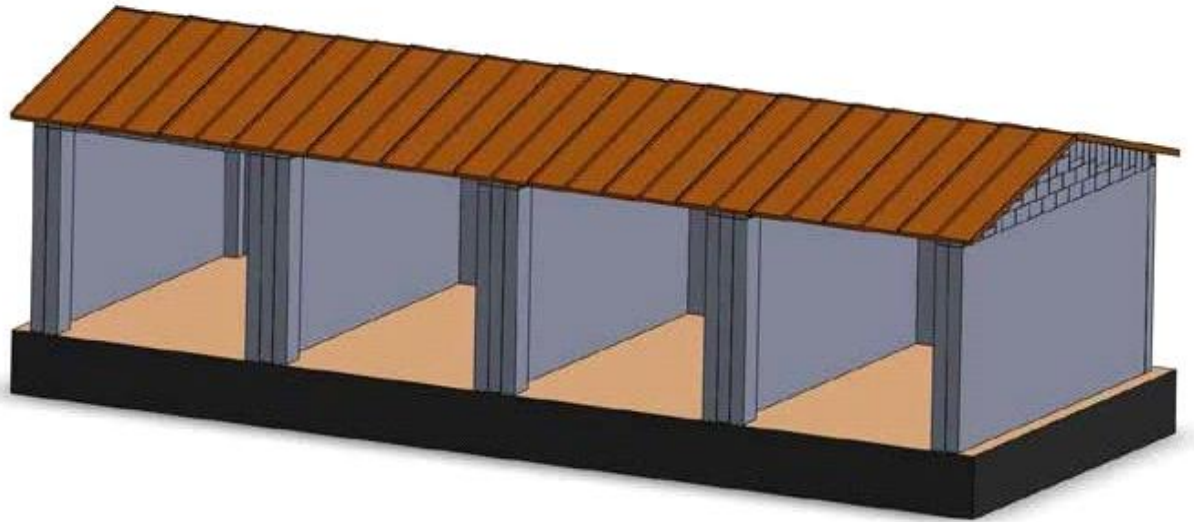




Constructive ideas on warehouse and other fast block system

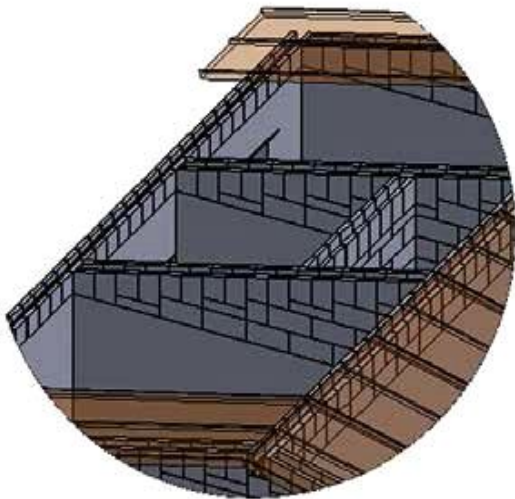


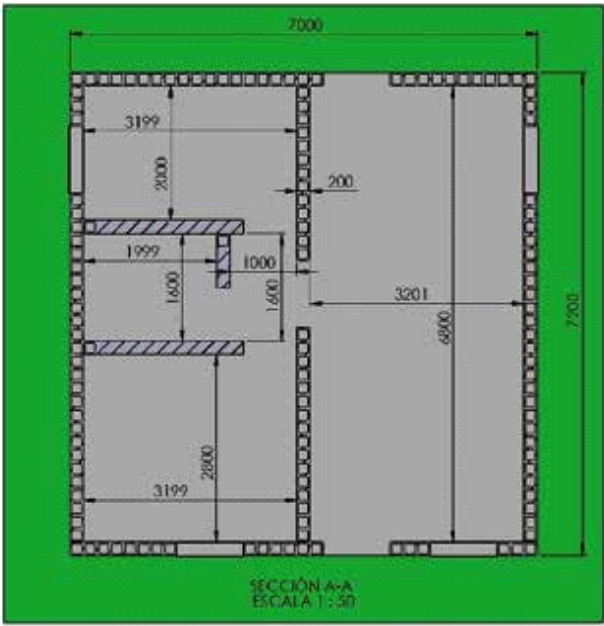
▷ constructive idea: warehouse.



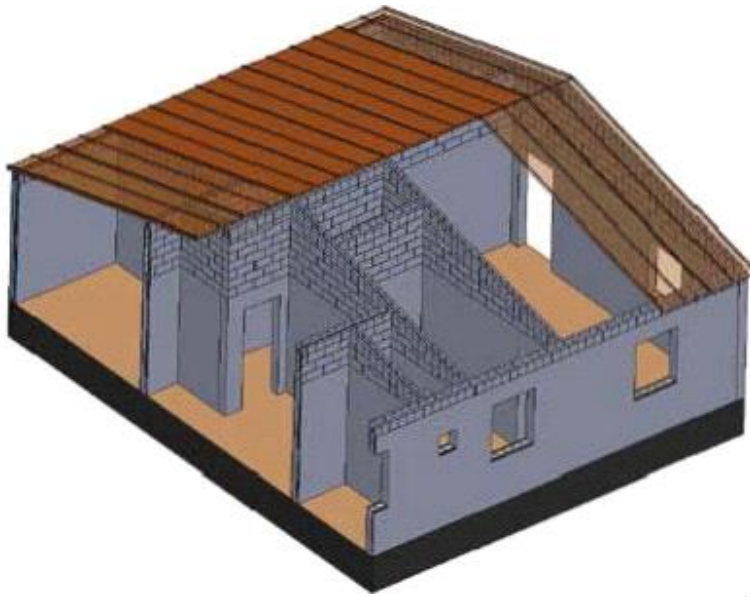
▷ constructive idea: Module parking and storage

Constructive ideas bungalows- houses and modules with "block fast" system

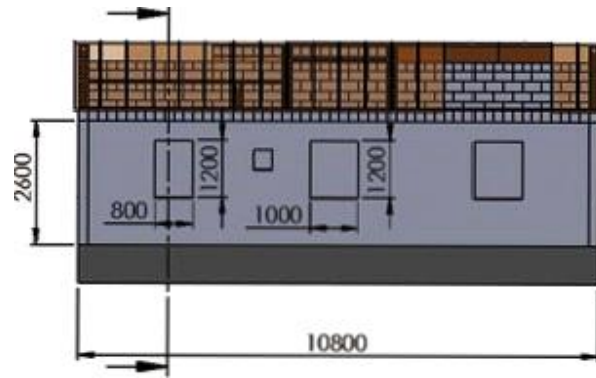




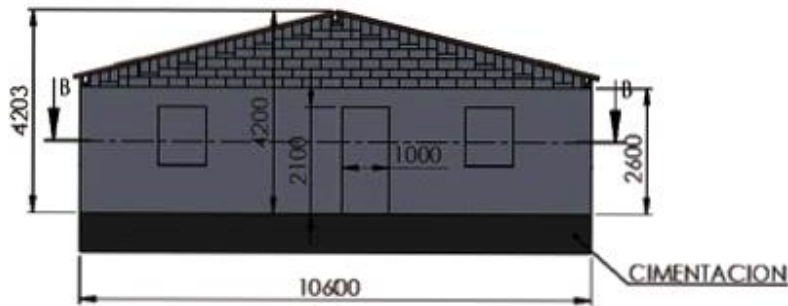
BLOCKFAST 1



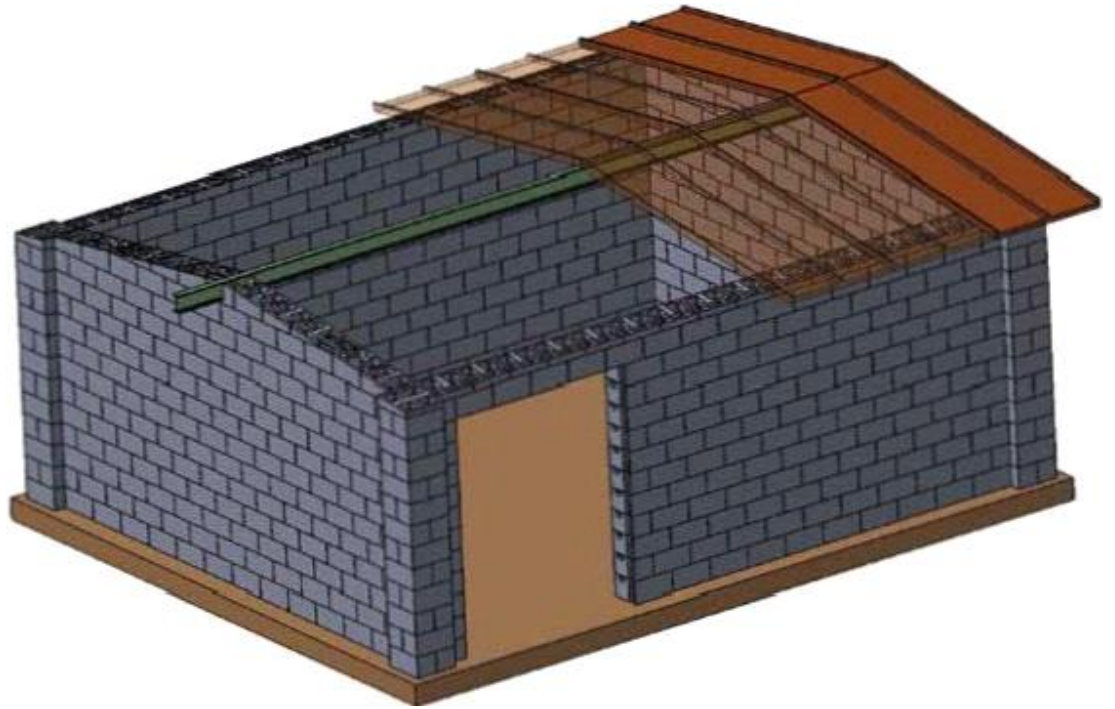
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living room bed room1



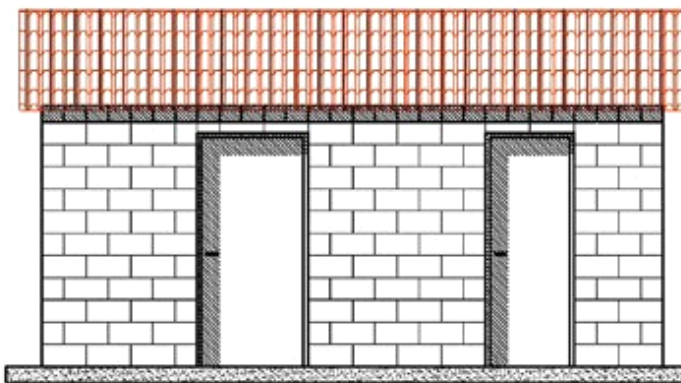
foundation



Constructive ideas
bungalows-houses and modules
with fast block system

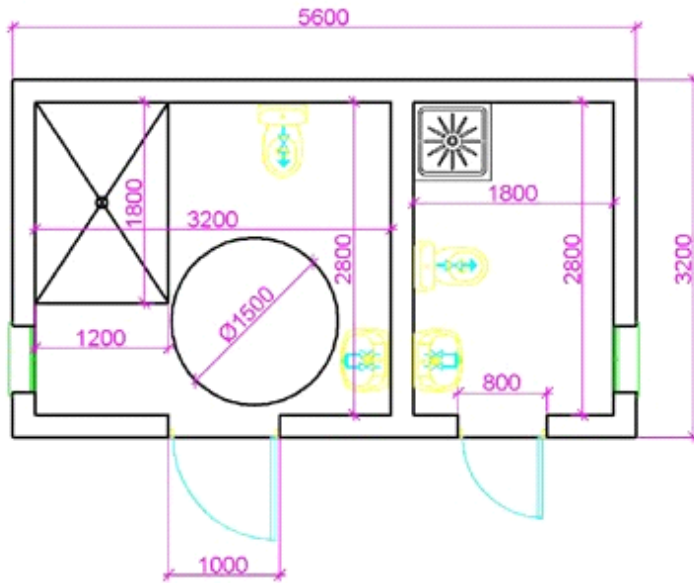


▷ constructive idea: Bungalows various measures.

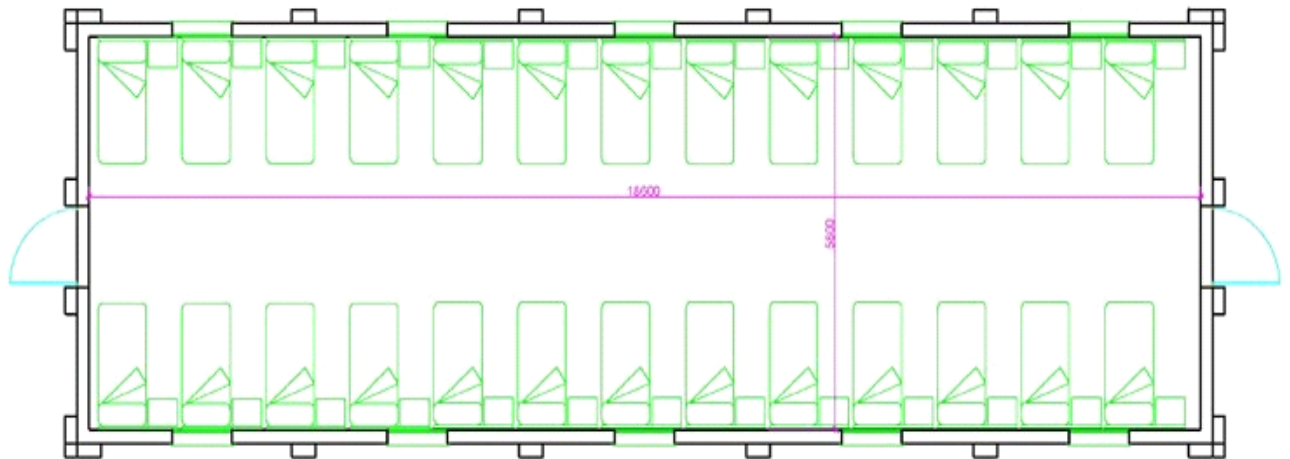


bathrooms .

▷ constructive idea:



Constructive ideas
bungalows-houses and modules
with fast block system



PLANTA DISTRIBUCION - ACOTADA

▷ constructive idea: Collective Bungalow.



- **Present at construction fairs**



Foro Ficon, Extremadura





Greencities, Málaga





Construction fair, Uruguay



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