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CONSTRUCTIVE SYSTEM 5

LIGHTWEIGHT FORMWORK SYSTEM FOR CONCRETE

GRUPO EXIDECON EXPORTACIONES



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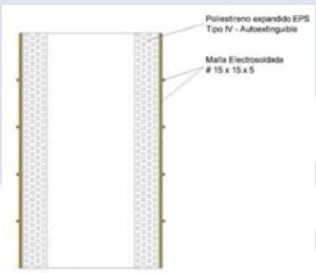
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1. Introducción

The construction system of lightweight formwork for concrete structures consists of a metal substructure of steel rods and welded steel mesh contained within two sheets of expanded polystyrene (EPS).



It is a construction system that combines in a single item all the functions needed to produce works of architecture, from a family home until a building of great height, with maximum efficiency covering all types of buildings and destinations. The system is designed to offer a global solution and supplemented with all necessary equipment to deliver a product, "Turnkey".

The resistance that offers both concrete and steel, this system provides high resistance against the most adverse weather conditions as winds of more than **250 km. / Hour (hurricane grade 4-5) and earthquakes up to 8 degrees in the Richter scale,** which makes buildings constructed with this type of system the most reliable and resistant to the most devastating natural phenomena and even modifying the concrete fill are resistant to explosions.

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2. Characteristics

Fast:

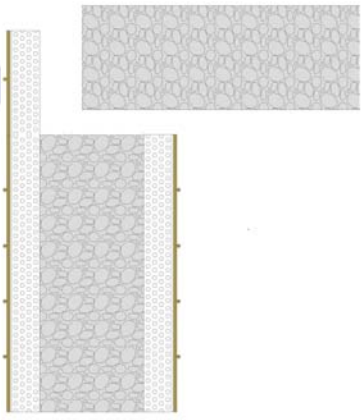
One of the most marked advantages to using the system is the drastic reduction of time in the execution of works ranging from 30-40% faster than traditional construction. Thereby reducing the economic costs.

The system achieves this speed of execution of their works because:

- Mounting interior partition while the assembly of exterior walls.
- Panels are lightweight system with a maximum weight of 35 kg this allows rapid assembly on site. The estimated production of panels for mounting 2 operators is around 100m2 per day system.



- The exterior of polystyrene panels forming system can make grooves with a heat gun, this results in the elimination of traditional make grooves in walls.





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3. Characteristics

Reduction in labor costs

- The lightness of the panels, their easy assembly and removal of auxiliary means are reflected in a significant reduction of the needs of labor.

- Additional labor is needed to mount the system does not have to possess a high level of training in construction.



Fewer delays in the work

- The materials that make up the system are common and panel delivery is fast. Panels can be manufactured on site to reduce delivery time. Furthermore any resizing any of the panels is converted into an easy and simple to perform on site. We should add that you can build with the system in almost all weather conditions such as rain and snow. It all adds up to eliminate causes of delay.

Immediate installation step

- The passage facilities can begin once a plant has been completed, since all the inner divisions and will be raised.

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4. Characteristics

Reduction aids and heavy machinery

- The system panels weigh less than 35 kg, this means that it is not necessary the use of cranes for moving the work material.

Clean enviroment at work

- The system makes it easy to keep material and work enviroment in clean condition. During the time of execution of work with the system there is a large reduction in the generation of debris.

More safety on construction sites

- The lightness of the panels and the removal of cranes for the movement of material on site makes the job done with complete safety for the operators.

Less energy consumption

- High insulation qualities offered by the polystyrene part of the system reduces energy consumption,that means we can instale boilers and air conditioning machinery less powerful, resulting in a reduction of final energy bills.

Acoustic Isolation

- Buildings constructed with this system offers high performance in sound insulation. Concrete walls along with the addition of EPS expanded polystyrene plates in the panels.



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5. **Characteristics**

Fire Resistance

- The treated polystyrene incorporated into the system offers a high degree of fire resistance to meet all European standards.

Flood resistance

- The concrete and polystyrene as part of the system are free from adverse effects of water. The walls of a building constructed with this system have sufficient strength to withstand high water pressures. Buildings affected by flooding are easy to retrieve and clean, its structure is not damaged.

Minimum maintenance and long-term

- Under normal circumstances you do not need any maintenance for the divisions made with this system. In the case of having some type of damage inside or outside is very easy to repair or even replace entire sections of partition.







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6. Samples











