

Advantages and benefits of its use

Savings

It reduces the labor and structures cost considerably in comparison with the traditional building systems.

High thermal protection, that allows obtaining savings in the energy used in air conditioning and heating.

High acoustic protection, that allows diminishing the external noises, providing more comfort and privacy inside.

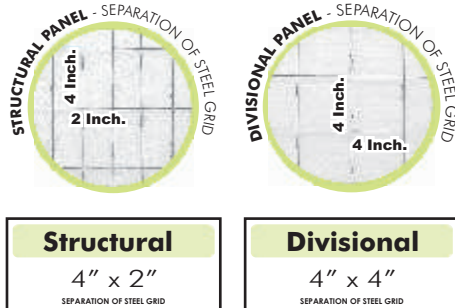
The versatility and resistance of its pieces allows them adapting to any design or calculus minimizing the waste of material.

Easy operation and fast installation

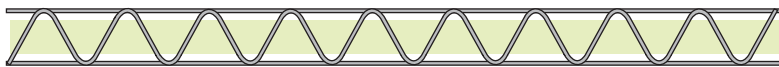
The lightness and easy operation of its pieces permit to work with cleanness and order in the construction because they can be loaded and stored easily.

Minimizes the waste of material, the remaining material can be used in the frames of windows, etc.

Types of panel



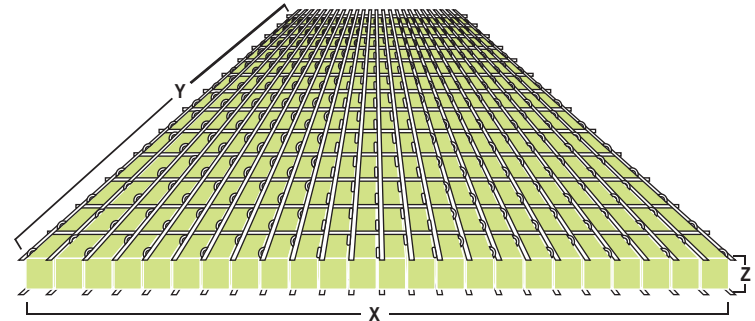
Lateral view



-The upper steel is separated by a centimeter of the polystyrene so it permits a better hold of the mortar.

-The steel lateral triangular reinforcement helps to better distribute the charges of the wall.

Frontal view



Units in cm.

X	Y	Z
1.22 x 2.44		2" y 3"

General technical specifications

Measurements	1.22 x 2.44 x 0.075 m
Polystyrene thickness	2" y 3"
Weight of the panel without mortar	4.2 kg/m ²
Weight of the panel in mortar	114.2 kg/m ²
Weight of the panel in slab	179.2 kg/m ²
Coefficient of thermal conductivity "U"	0.545 kcal/m ² /hr/°c
Index of sound reduction (FSTC)	44 db
Wire of the assembling of the panel caliber 13	f _y = 4,200 kg/cm ²
Expandable polystyrene	10 a 12 kg/m ³
Resistance to the compression of the mortar of the mortar in walls and in the inferior layer of the slab.	f'c = 100 kg/m ²
Resistance to the compression of the concrete in layer of the compression of the slab.	f'c = 200 kg/m ²
Steel of reinforce	3/8" G42 ó 5/16" G60 rod
Resistance to the shear in walls	8.912 kg/ml (5,871 kg/ml steel and 3,041 kg/ml mortar)

Assembling and elevation of the walls

The panels are joined together with union grid by both sides to assure the structural continuance and avoid the cracking in the flattening of the joints. The joints in the corners are made by folding the union grid in a 90 degree angle. The placement of the grid can be done by securing them with annealed steel wire or with pneumatic stapler, in the case of works of big volume.

Preparation for doors, windows and installations

The cutting of doors and windows are made by cutting the panel using pliers. The polystyrene is removed with a cutting element or applying direct fire with a blowtorch or lighter. To avoid fissures in the flattening, we must reinforce the frames placing 3/8 rods or union grids at 45 degrees in both sides. It is recommended to eliminate a little bit of polystyrene in the end of the frame of the door and windows so when the mortar is applied it will have more rigidity and will fix better.

Application of mortar over the wall

This process is divided in two stages. The first consists in applying one layer of cement-sand mortar of a thickness of 1 cm for both sides of the panel enough to cover the grid of wire. Later a second layer is applied but this time with a thickness of 1.5 cm, so that the total of the flattening will be 2.5 cm. It is important to keep the flattening humid in the next 48 hours after application to avoid fissures.



Technical advice
Type or services:

- Structural plans
- Sketch
- Fast specifications of quantification of materials.
- Memories of calculus.
- Telephone customer service

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