

MODERN WALL

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Wharton
UNIVERSITY of PENNSYLVANIA

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GROUPE**

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WITH

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Construction of a building requires a huge investment on time, especially commercial buildings, hospitals and laboratories. It will take much time to be finished. Indeed building one wall takes almost a week to be finalized, at the moment Buildings consumption of electricity is growing especially for lightening and air conditioners. It's time for us to find a new modern solution that get our life better than before, and must be friendly with environment.

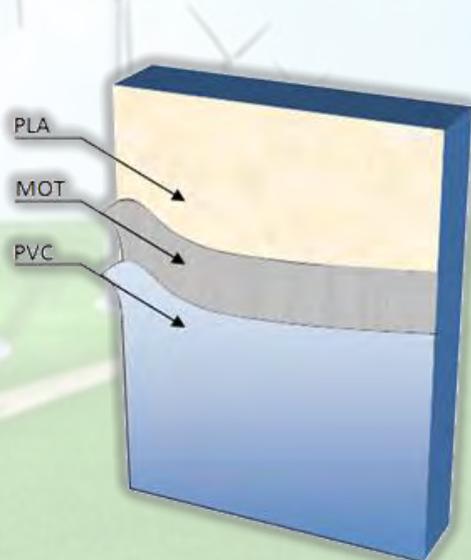
Modern Wall?

Modern Wall is a firm structure made with several ecologic and recyclable materials that forms intelligent walls, wall partitions, wall coatings or roof coatings.

Sustainable development and environmental preservation are very important conditions for Modern Wall; we can say Modern Wall is an ecological structure that struggle for sustainable development.



It is also completely recyclable material: when the gypsum leftover is properly arranged, it is possible to prepare again and use it us new



PLA : Plaster
MOT : design
PVC : PVC or PTC

Firm Composition

product, associate with a PVC film or PTC that will provide protection for plaster against humidity, we can do aesthetic improvement by introducing a decorative film below the PVC. Using of ultra LED illumination and OLED more than 80% of electrical power is conserved.

Modern Wall uses an innovative air conditioning system, a fixed freshness throughout the parts of the habitat places, equipped

with a fire alarm that is both simple and effective.



The degree of heat, light, open windows and curtains are made with a control throughout the habitat. This project will improve

over 70% of the air quality in parts of

the habitat ecologically and without energy, while improving sound insulation and increasing resistance to fire. The mechanical strength is achieved through the alloy of gypsum and mineral fibers. The sound insulation that best suits your needs results the reduction of half the resonance of a common wall, ceiling or partition in a home renovation. This enables



high performance acoustic to join a comfort in the house's rooms, with adjustment possibilities to map the sound effect.



Modern Wall will target the new and under renovation individual homes, also the public facilities such as schools, hospitals, business offices, shops, cinemas and theaters.

Benefits

Using Modern offers many advantages:

- Reduction of the needed time for completion of construction or structure. Finishes (walls of separation, coatings and paints) delay the completion of construction, but this type of wall will advance the project more than 20%; so the cost will be reduced too with high quality.
- A stable temperature with air conditioning wall: the temperature will stabilize in the habitat parts with an electronic chip and a system incorporated in the ceiling and wall plates.
- Energy saving; by replacing ordinary lamps with ultra LEDs, using solar panels or wind turbines and tools.
- Improve over 70% the air quality in habitat parts without energy; ecologically and through the plaster void will lend a change in temperature between the exterior and interior parts of habitat.
- Sound insulation.
- Modern aesthetic (modern look).
- Creation of complex-shaped wall.
- Control of all habitat: a wireless control that also serves to give all the habitat informations, sends alert messages when open habitat, fire...



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MODERN WALL TEAM



Khaled Mouats listed in the Mit Enterprise Forum Arab Business Plan Competition 50 semi-finalists in 2012, he had a Master in Civil Engineering (Structures & Materials option) from the University Mentouri Constantine, designer and web developer in Vworker.com since 2008 (VWorker is an international freelance website, K Mouats ranked better than 97% of the other programmers on this site, with a score of 18.1/20). Major promotion in Electrical Engineering Bachelor. Khaled Mouats acquired knowledge in electronics, automation and logic and knowledge of mechanical, physical, chemical and math courses in Science & Technology in University Mentouri Constantine.

Tasks

Khaled Mouats is the owner of this idea, he innovate and concept the composite plates preserving the regulatory aspect of the materials.

Helped by



Mansour Madaci MASTER student in Electrical Engineering under management and control of electrical energy renewable specialty. Mansour Madaci major of his class in electrical engineering license, he participated in the robotics competition (eurobot 2010). C programmer, developer of electronic circuits and motherboards director, programming microcontrollers in C language and creator of robots, Mansour Madaci is listed too in the Mit Enterprise Forum Arab Business Plan Competition 50 semi-finalists in 2012.

Tasks

Electrical and electronic aspects, including wireless controls.



Zakaria Fantazi senior writer on the site www.AutoMoto.com, holds a BA in English (Language, Literature and Civilization), designer, surrounded by several Scientifics, Zakaria Fanatazi acquired knowledge in electronics and mechanics.

Tasks

Presentation of our project.