



Who we are!

JADA Green Panel Founded in 2017, through these years the company developed to become one of the leading manufacturers for green panels in Jordan.

- **MISSION**

To continue being the specialist in our field, and to produce cost-efficient & high quality product for a growing group of satisfied customers.

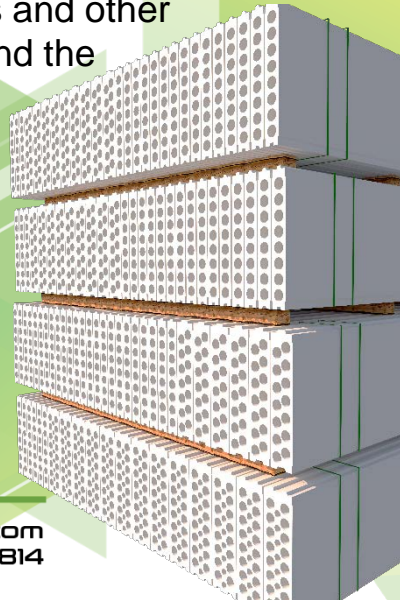
- **VISION**

To transfer our knowledge and experience in the engineering industries like Green Panels and other products with the latest engineering and manufacturing technologies to the Middle East and the whole world.



T : +962 6 58 66 161 - M: +962 79 55 35 867
F : +962 6 58 66 168 - M: +962 79 55 35 960

info@jadadoors.com - www.jadacompany.com
Amman - Jordan - P.O.Box 143386 Amman 11814



Factory

JADA Green Panel factory with a total area of 6000 m² and a productivity area 500-1000 m² located in Amman-Jordan.

It has 10-20 engineers & workers and a production line with the latest machines.



What is Green Panel!

It is a sustainable and eco-friendly technology, based on alternative and innovative construction methods, which can dramatically decrease the cost of the electrical bills, providing excellent energy efficiency, while at the same time reduces pollution.

COMPONENTS:

1 Magnesium chloride High quality $MgCl_2$:

The main cementing material to solidify other materials.

2 Fly ash and plant fiber:

Applied as filling materials.

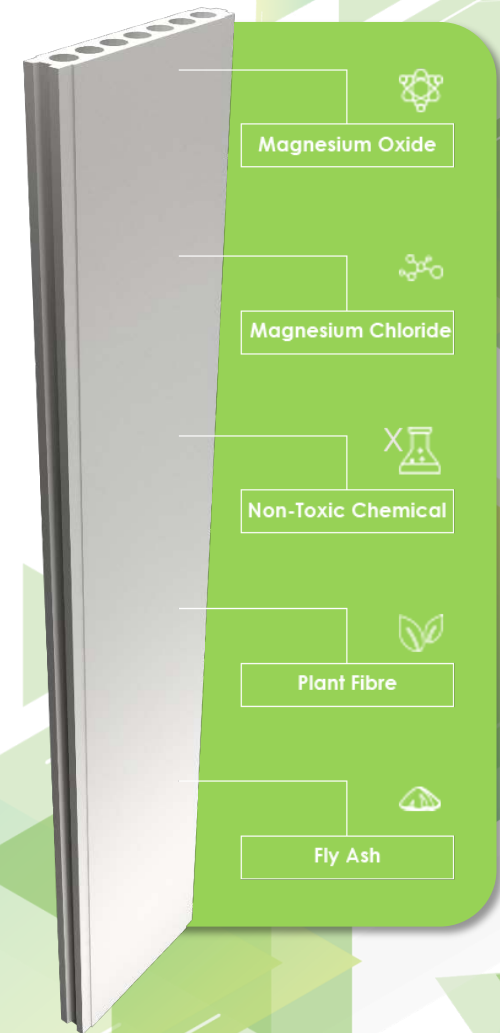
3 non-toxic chemical:

Used to mix all materials together for strength .

4 Magnesium oxide :

A natural fireproof material .

The high purified magnesium oxide is used as the main fireproof material.



Green Panel Main Performances



1- 4 hours Fire Rated



Lightweight: 40kg/m²
for 100mm panel



Sound Insulation Up
to 51 dB



80% Energy Saving
and Heat Insulation



Fast Installation: 40
m²/day/worker



Save up to 30% of the
total cost



No Asbestos Green
Building Material



22% Water Absorption

What is Green Panel!

SPECIFICATIONS:

Length:
2200mm-3600mm

Width:
600mm

Thickness :
90mm / 100mm / 120mm / 150mm / 200mm

Standard Size:
3000mm X 600mm / 2800mm X 600mm

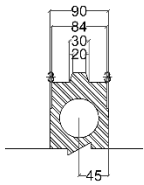


Green Panel I Shape
60X10\H 300 cm

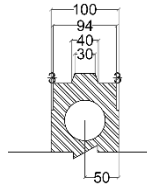
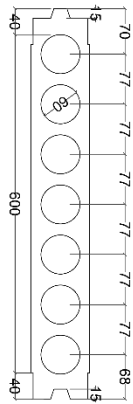


What is Green Panel!

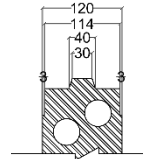
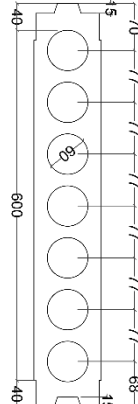
SECTIONAL DRAWINGS



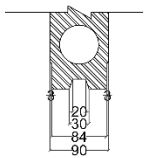
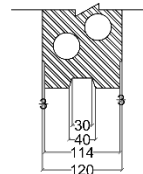
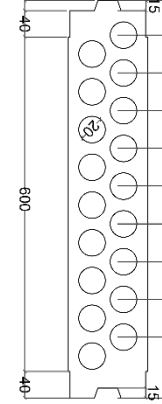
Panel 90
90 mm



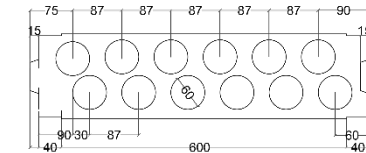
Panel 100
100 mm



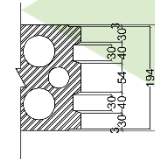
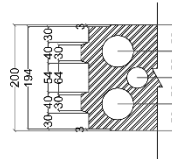
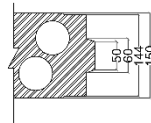
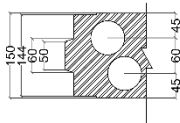
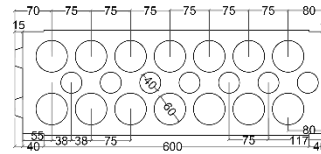
Panel 120
120 mm



Panel 150
150 mm



Panel 200
200 mm



Technical Data

(Thickness: 10mm)

Item No.	TESTING STANDARD	TESTING ITEM	RESULT
1	BS 476 Part 22:1987	Fireproof	132 min
2	ASTM E413-04	Sound insulation	40dB
3	BS EN 772-1:2000	Compressive strength	5.56 Mpa
4	CT-21752/THC	Thermal conductivity	0.1739 w/m° k
5	CT -21752/THC	Thermal resistance	0.517 m2° k/W
6	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Stiffness	Passed
7	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Surface damage by small hard body impact	Tested
8	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Surface damage by large soft body impact	Passed
9	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Perforation by small hard body impact	Passed
10	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Resistance to structural damage by large soft body	Passed
11	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Door slamming	Passed
12	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Crowd pressure	3 Kn/m
13	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Light weight anchorage - pull out	100N
14	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Light weight anchorage - pull down	250N
15	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Heavy weight anchorage -wash basin	1500N
16	BS 5234 : Part 2 : 1992 or SS 492 : 2001	Heavy weight anchorage-wash cupboard	4000N

ASTM Test Data(Thickness: 10mm)

Item No.	TESTING STANDARD	TESTING ITEM	RESULT
1	ASTM C177-13	U - Value	0.133 W/m²k
2	ASTM C177-13	R - Value	5.56 M.k/w
3	ASTM C1386-98	Compressive Strength	6.5 N/mm²



Benefits

When compared with other similar materials, Jada's Green Panels offer a number of benefits such as:

- 1- Fire Resistance
- 2- Lightweight
- 3- Interior & Architectural Flexibility
- 4- Cost Efficient
- 5- Thermal Insulation
- 6- Energy Saving
- 7- Acoustic Insulation
- 8- Green Product
- 9- Time Efficient



Benefits



FIRE RESISTANCE

Fire Proof Grade A:

Green Panels are a non-combustible building material , they are non-combustible at 800°C, and remains flameless at 1,200°C.

The fire endurance can reach 4 hours in accordance with Chinese National Standard (GB/T 9978 8-2008). Also as per TUV standard (BS 476:Part 22: 1987) Fire rated for a duration of 132 minutes for a 100mm green panel.

TUV Fire Resistance Test:

BS 476: Part 22:1987 --- Determination of the resistance of Non – load bearing element of construction partition.

The Performance of the specimen was judged against the criteria for insulation and integrity as specified in Clause 5 of BS 476 : Par 22 : 1987 , for a full insulated partition system , and the results obtained were as follows :

INSULATION	INTEGRITY
132 minutes, no failure	132 minutes, no failure



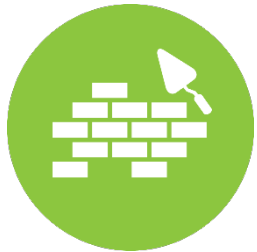
Benefits



LIGHTWEIGHT

Green panels are lighter than any other traditional panels. Such as cement blocks. Concrete blocks, cement panels etc..

The weight is only 40kg/m² for 100mm while the weight for the cement board is about 120- 140kg/m². As a result, it can lower structural load, reducing oversized foundation and the steel amount by 25% so it lowers the overall structure cost



INTERIOR & ARCHITECTURAL FLEXIBILITY

Easy and fast installation:

The lightweight panel with tongue and groove design enables 3-5 times faster installation compared with that of cement panels, or bricks.

The panels can be easily sawn, cut, drilled and taped. One skilled worker can install about 40m² per day.

The panels do not need plastering in interior partitions, so you can reduce plastering time.



Benefits



COST EFFICIENT

As green panels are lightweight. They can reduce the cost on the labor, foundation, structure, plastering, linter beams and stiffeners of the building. As well as the transportation cost.

It's quickly installation, so it can significantly shorten the construction period and project management cost. More over, the surface is smooth, so there's no need for plastering work after the panel's installation, skim cost directly and then other decoration. Therefore the overall project cost will be reduced up to **30%**



THERMAL INSULATION & ENERGY SAVING

Thermal conductivity for a green panel $0.17\text{w/m}^0\text{k}$, while for a cement panel $0.66\text{ w/m}^0\text{k}$. According to a Korean customer test, for the house built by green panels, electricity consumption is about 2 kWh per day.

While for a cement panel house, electricity consumption is about 10 kWh per day, which means we can save up to **80%** energy.



Benefits



ACOUSTIC INSULATION

Green panels adopt hollow core structure design, as the air is the best medium of sound and thermal insulation, and it shows great efficiency in insulating noise.

For a 100mm panel, the Sound Transmission Class (STC) is 39 DB, while it can reach up to 51 DB for structure with two layers of 90mm panels.



GREEN PRODUCT

The raw materials for our panels are green materials, according to national environmental tests. It does not contain asbestos, and no radioactivity. Also, it does not contain formaldehyde. In addition to that, it's free of heavy metals and other harmful substances.

It does not produce any harmful gases or toxic smoke in the event of a fire. Moreover, it's insect-resistant and resistant to growth of mold and mildew as an inorganic material.



Comparison

GREEN PANEL vs CEMENT PANEL vs BRICKS

Lighter weight:

- 36 kg/m² vs 1/3 of cement panels and bricks
- Lower structural load
- Reduce the base, linter beams and stiffeners

Faster installation:

40 m² /day/worker : 2-5 x faster installation

- Cement panel : 16m²/day/worker
- Bricks : 5m²/day/worker shorten the construction time.

Lower cost:

Saving on:

- Structure
- Labor
- Construction Period
- Project Management Cost



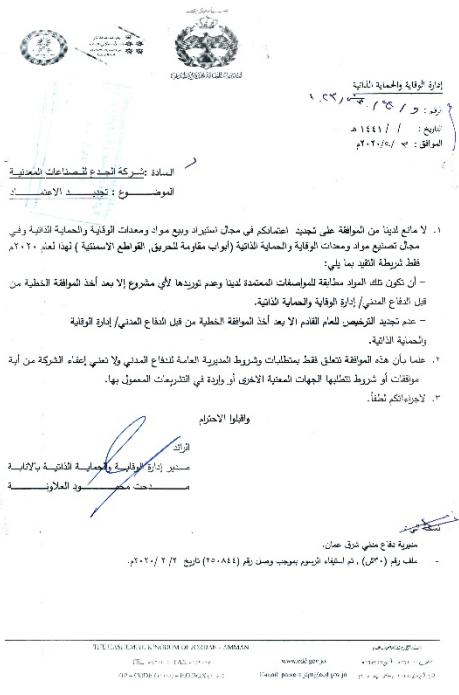
Comparison

COMPARISON SHEET:

Requirement	UAC Solid wall (104mm)	ALC Block (100mm)	Brick (100mm)	ACOTEC (hollow core 100mm)	JADA GREEN PANEL (100mm)
Weight	83 kg/m ²	65 kg/m ²	300 kg/m ²	140 kg/m ²	40 kg/m ²
Productivity	18-23 m ² /manday (installation & joint treatment).	15-20 m ² /manday (installation, joint treatment & skim coat)	4-7 m ² /manday (installation & plastering)	16 m ² /manday (installation, joint treatment & skim coat)	40 m ² /manday (installation, joint treatment & skim coat)
Non combustibility	Yes	Yes	Yes	Yes	Yes
Fire rating	120 min	120 min	120 min	120 min	132 min
Sound Insulation	46 dB	36 dB	35-40 dB	46 dB	40 dB
Thermal resistance	0.31 m ² K/W	0.50 m ² K/W	0.068 m ² K/W	0.40 m ² K/W	0.5712 M ² K/W
Use in wet area	Yes	Yes	Yes	Yes	Yes
Onsite installation of concealed wiring, ducting & pipework	Services can be incorporated into the wall during the installation.	By surface hacking	By surface hacking	Services can be concealed in the cavity	Services can be concealed in the cavity
Surface appearance	Smooth	Smooth	Smooth	Smooth	Smooth
Applied finishing:	Yes	Yes	Yes	Yes	Yes
Tiling	Plastic plug/ chemical set anchor	Plastic plug/ chemical set anchor	Plastic plug/ chemical set anchor	Plastic plug/ chemical anchor / lightweight concrete anchor	Plastic plug/ chemical anchor / lightweight concrete anchor
Fastener type					
Flexibility of relocation	Can be removed & replace with relative ease & minimal mess	Can be removed & replace with relative ease & minimal mess	removal & replacement is messy	removal & replacement is messy	Can be removed & replace with relative ease & minimal mess

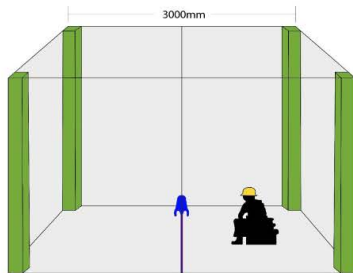


Certificates



Installation Process

1- MARK THE LINE

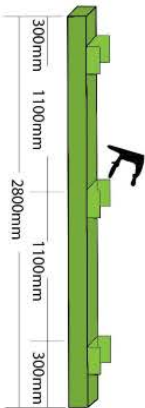


Note:

100mm thickness panel cement mortar.

Using the cross line laser to mark the control line on the floor and wall. And extend the line to the ceiling and column. Also, mark the location for the doors and windows.

2- THE CONNECTION BETWEEN PANEL & COLEMNS



Using the nail gun to fix the U shape metal clip with the column first (usually 3 pieces vertically) Brushing cement mortar on the tongue side of the panel.

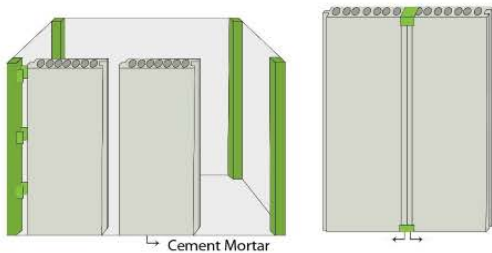
Note:

Then panel slides into the metal clip with ease.



Installation Process

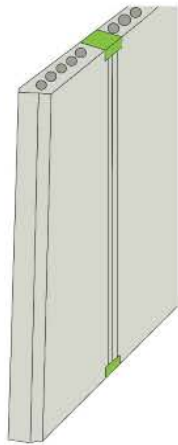
3- THE CONNECTION BETWEEN PANELS



Install the U shape metal clip on the floor and ceiling to fix the two panel. Brushing cement mortar on the tongue.

Then joint the panels T & G. Please make sure that the panels are on R, which is the same line with the control line.

4- PANEL FIXATION



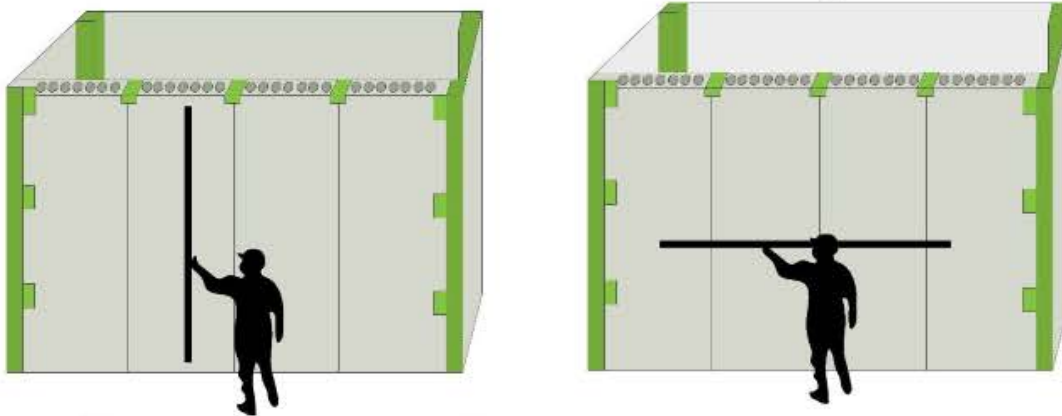
Use the wood clips to fill the gap between the floor (or ceiling) and panel to make the panels stable.



Installation Process

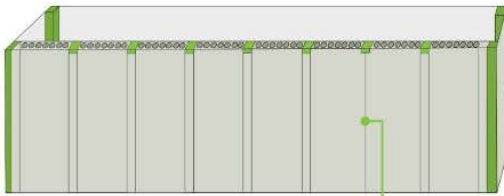
5- CHECK AND ADJUST THE WALL

Check and adjust the flatness verticality and diagonal line when finishing the wall installation between two columns.



Installation Process

6- FILLING THE GAP



Keep the joint unfinished until the others are finished and dry enough

Bonding material: cement mortar +50mm width fiberglass mesh + cement mortar. Jada can provide specially made cement mortar for our green panels.

Tips :

Between each 5 joints, please keep 1 joint unfilled until all other joints full filled and dry enough. We check the wall flatness again to adjust problem if any. For the unfilled joint space.

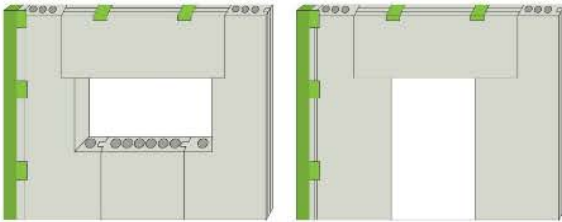
7- WINDOWS INSTALLATION

Cut down the panels according to the shape of the window, then install the panels.



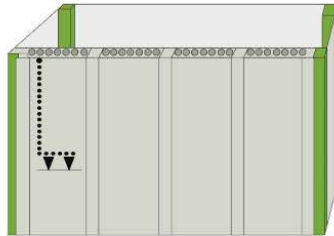
Installation Process

8- DOOR INSTALLATION



Cut down the panels according to the shape of the door, then install the panels.

9- PIPE & LINE ISNTALLATION



Mark the location of the pipes and lines after finishing the panel's installation.

For the vertical pipes or lines, install them into the hollow core of the panels.

10- QC FOR JADA PANELS INSTALLATION



Make sure the wall surface is flat and straight. For the vertical.

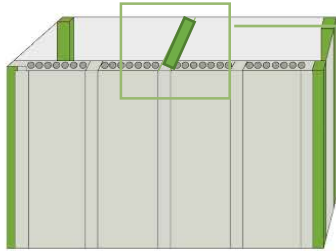
We can start the decoration after one week.



They are carefully fitted to the walls and floors to meet the clean room standards

Installation Process

11- Ceiling INSTALLATION



A steel structure is installed and green partitions are installed on it, and it is supported on the bearing walls (the size of the green partitions for the ceiling is 150 cm * 60 cm * 10 cm)



12- COVERING FLOOR

The metal pieces are machined with special bales and perforated, and then rolled into a special product **COVERING FLOOR**, They are carefully fitted to the walls and floors to meet the clean room standards



Installation Process

8- DOOR INSTALLATION

Cut down the panels according to the shape of the door, then install the panels.

9- PIPE & LINE ISNTALLATION

Mark the location of the pipes and lines after finishing the panel's installation.

For the vertical pipes or lines, install them into the hollow core of the panels.

10- QC FOR JADA PANELS INSTALLATION

Make sure the wall surface is flat and straight. For the vertical.

We can start the decoration after one week.



Projects



Projects

