

*Zip*PANELLING



**Kick Starting the Building
Revolution for a Greener
and Safer Future**

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ZIP PANELLING is a Technical Revolution in Construction

What is it? Zip Panelling is a lightweight composite insulated panel board designed for use in all aspects of building and construction. Zip Panelling can be used for external walls, partition walls, internal walls, cladding and flooring. The product is supplied in panel and block forms and has load bearing capabilities.



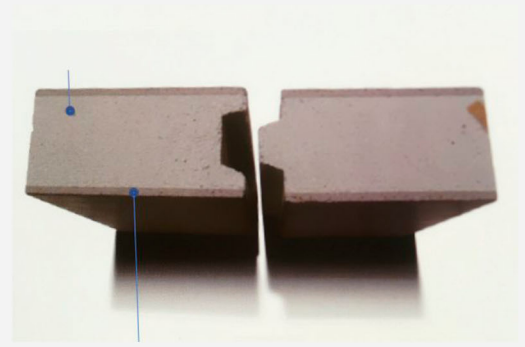
How is it greener? The material and method of production used to create Zip Panelling produces only 14% CO2 emissions when compared to cement production. Not only that but Zip Panelling is also 100% free of asbestos and formaldehyde benzene, and is also non-toxic and fully recyclable.



How is it safer? We have spent the last 12 years perfecting the design and manufacture of this patented product. Consequently we are proud to boast that Zip Panelling is completely Fire Proof, Water and Sound Resistant, Earthquake resistant and is impervious to mildew, mould, insect and rodent attacks. Zip Panelling has the power to save lives and to ensure that everyone can afford to live in safer housing.



How is it faster? Zip Panelling will move the entire building and construction industry forward by reducing build costs by 30%, and speeding up construction times by 50%. Zip paneling is easy to use requiring no specialist tools or skills. Additional building materials such as cement, sand, plasterboard and plaster will no longer be required.



The Key Facts about ZIP PANELLING:

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| <ul style="list-style-type: none"> ● Reduces Building costs by 30% ● Speeds up Construction times by 50% ● 60 Year Life Span ● Can be molded to contours and finishes ● Reduced reliance on specialist skills ● No Bricks or Blocks -
No Cement or Sand -
No Plasterboard or Plaster - ● Eco Friendly on Land-fill and fully recyclable ● Earthquake Resistant | <ul style="list-style-type: none"> ● Zip Panelling boasts an excellent safety profile: <ul style="list-style-type: none"> - Fire Proof/Non combustible - Water proof - Non Toxic ● Zip Panelling is impervious to : <ul style="list-style-type: none"> - mould - insect infestation - rodent attack ● Fully Insulated ● Easily cut to size / Available in Blocks or panels ● Fully CE, ISO, CSTB and BSI Certified |
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Laminate finishes available:



Technical Data ZIP INSULATED PANELS

	50mm ZIP PANELS	100mm ZIP Panels
Four point Bending Test	5-993 kN	5-993 kN
Compressive Strength Test	Concentric Load	173.268 kN
Racking Test (shear strength)	8.435kN Single	20.160kN Double
Weight	30Kg m2	66Kg m2
Axial Load Bearing	53kN/m	115kN/m
Sound Transmission (STC)	45dB	52dB
Fire Resistant (rating)	1 hour	2 hour
Thermal Conductivity (K)	0.291 1112 k/w	0.291 1112 k/w
Surface Flame	Class A	Class A
Combustibility Test	Deemed non-combustible	Deemed non-combustible
Anchor Test	pullout 4.6kN	Shear Test 7-40k/N
Crowd Pressure Test	2k/N	2k/N
Pull Down Test	250n	250n
Heavy Weight Anchor Pulldown	3kN/m	3kN/m

Construction Time Comparison

ZIP PANELLING		CONVENTIONAL BUILDING	
Ground Floor Slab	Same	Ground Floor Slab	Same
Ground Floor Wall Panels	2 days	Ground Floor Framing	2 days
First Floor Panels	1 day	First Floor Framing	3 days
First Floor Wall Panels	2 days	Roof Construction	Same
Internal Linings	Same	Wall Sistolation & Insulation	2 days
Roof Construction	Same	Ground Floor Brick Work	8 days
		First Floor Brick Work	10 days
		Internal Linings	Same
Make Good the Site	2 days	Make Good the Site	4 days
TOTAL	7 days	TOTAL	29 days

Material Comparison ZIP PANELLING versus EVERYTHING

Material	Zip Panelling	Fibre Cement Board	Gypsum	OSB	SIPS Panels, Structural Insulated Panels- Timber Framed	Terracotta Bricks	Concrete Blocks Conventional Building	Bricks Conventional Building	Steel Panels	Log Homes	Stone
Fire & Heat proof	FIRE PROOF	good	good	poor	no	no	poor	poor	poor	no	yes
Full tested BS, ISO, CE, CSTB	YES	yes	yes	yes	yes	no	no	no	yes	no	no
Water Resistant	EXCELLENT	good	poor	good	no	no	poor	poor	good	yes	yes
Insulation Level	EXCELLENT	poor	poor	poor	good	poor	poor	poor	good	poor	poor
Available in Blocks or Panels	YES	no	no	no	no	no	yes	yes	no	no	no
Takes Nails & Screws	EXCELLENT	poor	poor	good	yes	no	no	no	no	yes	no
Mildew Resistant	EXCELLENT	good	poor	poor	no	yes	no	no	yes	no	yes
Mouse & Rat resistant	EXCELLENT	good	good	poor	no	yes	yes	yes	yes	no	yes
Insect Resistant	EXCELLENT	good	good	poor	no	yes	yes	yes	yes	no	yes
Needs Plastering	NO	yes	yes	yes	yes	yes	yes	yes	no	no	yes
Mortar/Cement	NO	yes	yes	no	no	yes	yes	yes	no	no	yes
Speed of build	EXCELLENT	good	good	good	good	poor	poor	poor	good	no	poor
Earth Ouke resistant	EXCELLENT	poor	poor	good	good	poor	poor	poor	good	good	poor
Cost of building	MUCH LOWER	lower	lower	lower	lower	lower	poor	poor	poor	lower	poor
Ease of building	EXCELLENT	good	good	good	good	poor	poor	poor	poor	good	poor
Cleaner building sites	YES	no	no	no	no	no	no	no	no	yes	no
Eco friendly	YES	no	no	no	no	poor	poor	no	no	yes	no
Good to landfill	YES	no	no	yes	no	yes	yes	yes	yes	yes	yes
Ease of use	EXCELLENT	good	good	good	good	good	poor	poor	poor	good	poor
Takes Glue	YES	no	good	yes	yes	no	no	no	no	yes	no
Needs Rawl Plugs	NO	yes	yes	yes	yes	yes	yes	yes	yes	no	yes
Ease of repair	EXCELLENT	good	good	good	good	poor	poor	poor	poor	good	poor
Structural	YES	no	no	no	yes	poor	yes	yes	yes	good	yes
Fastening Strength	EXCELLENT	poor	poor	good	good	poor	good	good	good	good	poor
Splinters and Dust	EXCELLENT	poor	poor	yes	yes	no	poor	poor	poor	poor	poor
Weight	EXCELLENT	poor	good	poor	poor	good	poor	good	good	good	poor
Cut with standard saw	YES	no	yes	yes	yes	no	no	no	no	yes	no
Drilling Easy	EXCELLENT	good	yes	yes	yes	no	no	no	no	yes	no
Direct painting	EXCELLENT	good	poor	poor	no	poor	poor	poor	poor	good	poor
Ease of Electrics	EXCELLENT	poor	poor	good	good	poor	poor	poor	poor	good	poor
Ease of Plumbing	EXCELLENT	poor	poor	good	good	poor	poor	poor	poor	good	poor
Pliability	EXCELLENT	poor	poor	poor	poor	poor	poor	poor	poor	poor	poor
Used for flooring	YES	no	no	yes	yes	no	no	no	no	no	no
Used for Roofing	YES	yes	no	no	yes	no	no	no	no	yes	yes
Floats in water	YES	no	no	yes	yes	no	no	no	no	no	no
Fire brigade friendly	EXCELLENT	good	poor	poor	poor	good	good	good	Poor	poor	good
Multiple surfaces available	YES	no	no	no	no	no	no	no	no	no	no
Takes lamintes direct	YES	no	no	no	no	no	no	no	no	no	no

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