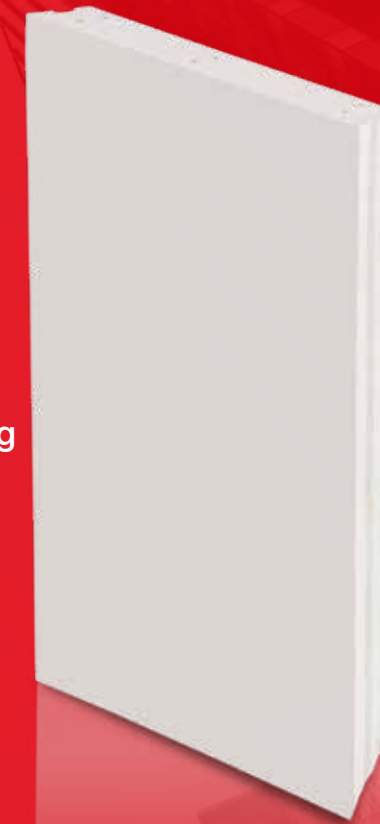




ZMARTBUILD WALL PANEL

- Lightweight and Easy to Work
- East Installation and Clean Site
- Thermal, Sound and Fire Resistance
- Environmentally-Friendly and Energy Saving



SCG International India Pvt. Ltd

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ZMARTBUILD WALL PANEL

ZMARTBUILD WALL PANEL are lightweight, steel reinforced, groove & tongue panels that can be easily installed by your normal on-site installers. They are suitable to be used as both external and internal walls.



- Non-combustible : up to four hour fire rating
- Outstanding thermal and acoustic insulation qualities increase levels of comfort and save on energy cooling costs
- General installers can install ZMARTBUILD WALL PANEL of more than 30 sq.m. with 3 Labour team per day
- Steel reinforcing is specially coated to prevent corrosion and provides maximum durability



Product Specification

Specification	Report	Unit
Dry Density	550 - 650	Kg / m ³
Working Density	600 - 700	Kg / m ³
Wind Load	Up to 180	Kg / m ²
Compressive Strength	> 40	Kg / m ²
Water Absorption	< 33%	by volume



Testing	Report	Unit
Fire Resistance	Up to 4.00	Hr.
Thermal Conductivity	0.115	W / mk.
STC Rating	38 - 43	dB
Tensile Strength	> 500	N / mm ²

Package size

ZmartBuild Wall Panel are steel reinforced (start from) 75 mm thick and are available in lengths of 1.50 m to 4.0 m of width of 600 mm.

Table of Size, Weight and Packaging

Size W x L x H (mm.)	Weight Kg / m ²	Packaging Pc / Pallet
75 x 600 x 3000	53	10
100 x 600 x 3000	70	7



ZMARTBUILD WALL PANEL



Groove



Tongue

Tools & Accessories



1. Thin-bed Mortar



2. Drill



3. Wireless-Drill



4. Trowel



5. Level



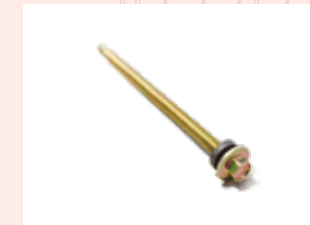
6. Tapeline



7. Chalk Line



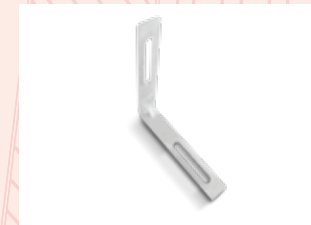
8. Wedge



9. Tapping Screw



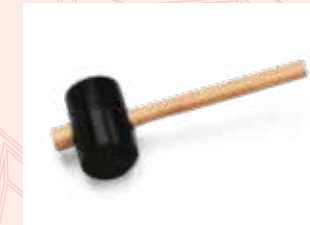
10. Steel plug (Expansion Bolt)



11. Steel angle 7.5 x 7.5 x 30 cm



12. Arc Trowel



13. Rubber hammer



14. Steel hammer



15. Mortar-stirrer



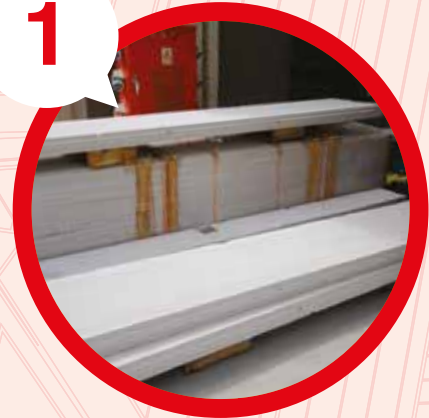
16. Trolley

Cautions

Mortar-Stirrer : Stirrer Must be attached firmly.
Saw and Rasp : Be careful of sharp instruments.

Pre-installation

1



Check sizes and quantities of ZMARTBUILD WALL PANEL.

2



Check wall layout to install in construction drawing.

3



Check tools and equipment.

How to install

1

Clean and mark the wall alignment by using a chalk tape.



2

Clean ZMARTBUILD WALL PANEL and move to the marked point.



3

Mix thin-bed mortar and apply it on structure column.



4

Lift the wall panel and push it to attach the column.



5

Insert a foam sheet between floor and top of the panel.



6 Use lever to lift ZMARTBUILD WALL PANEL until top of the panel reach the upper floor then insert a wood wedge under the panel.



7 Use steel angle to fasten the panel with floors on both upper and lower side of the panel by using steel plugs and screws.



8 Apply thin-bed mortar on side of the first panel then lift the next wall panel to attach and do the same as the previous steps.



9 Continue install wall panels until the gap can be closed by the end panel.



10 Measure the gap and cut the last panel to fit in then install it in place.



11 Fill the gap under the panels with sand-cement mortar.

12 Fill all gaps between each panel with thin-bed mortar, wait until the mortar dry then rub with sandpaper #400.



13 Finishing all gaps again with skim coat then rub with sandpaper #200.



14 Finish ZMARTBUILD WALL PANEL Installation

Cautions

- Use for installing wall panel only. Please follow the steps in installation guide. Do not use wall panel as load bearing structure.
- Do not eat or breathe dust from cutting the product.
- ZMARTBUILD WALL PANEL are designed and instructed to use for wall partition only.

How to move ZMARTBUILD WALL PANEL

1

There is no obstruction besides of the truck.



2

Check the conditions of the packaging to make sure that it will not fail while being lifted in the air.



3

Insert soft belts under pallets at the designed positions.



4

Lift wall panel to the loading area and then use hand lift to move wall panel into the building.



SAFETY FIRST



CAUTIONS

ZMARTBUILD WALL PANEL

To transfer panels



Move the pallet by using hand lift or fork lift and check the packaging before moving.

- ✓ Pallet strap is tight
- ✓ Pallets must be in good condition.
- ✓ Move one pallet at a time.
- ✓ Do not move pallet on sloping areas over 36 degrees and rough area to prevent fall.



Move the pallet by using crane and check the packaging before moving.

- ✓ Pallet strap is tight
- ✓ Pallets must be in good condition.
- ✓ Move one pallet at a time.



Move the pallet by workers.

- ✓ Beware of falling objects when moving
- ✓ Lift the product with the right manner in order to reduce muscle injuries.
- ✓ It is required at least 2 persons to lift the product.
- ✓ Do not throw or bump the product in order to prevent product damage and injuries.

Installation procedures



It is required at least 2 persons to install ZmartBuild Wall Panel. Study and follow the technical installation manual.

Storage



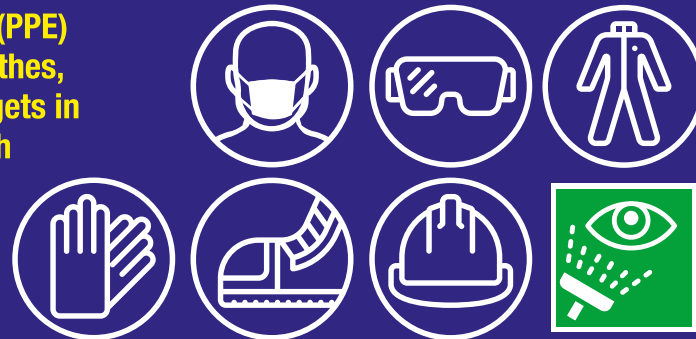
Avoid keeping the products outdoors over 30 days in order to prevent deterioration of packaging from humidity and weather.



Stack packs no higher than two packs height or no higher than 1.7 m. to prevent falling.

SAFETY

Wear standard personal protective equipment (PPE) e.g. dust mask, safety glasses, safety work clothes, work gloves, safety shoes and helmet. If dust gets in eyes, don't rub your eyes. Rinse cautiously with water for several times. If eyes irritation persists, get medical advice/attention.



How to use

Wall panel is suitable to be used for non-load bearing wall for both external and internal walls. Install wall panel by using specific tools and equipment for autoclaved lightweight concrete only.

Product Description

ZMARTBUILD WALL PANEL is an autoclaved lightweight concrete with reinforced steel. The steel is coated with rust protection.

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PROJECT REFERENCE

ZMARTBUILD WALL PANEL Hand Book

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Various Application of ZMARTBUILD WALL PANEL

- Cladding for heat protection
- Horizontal Installation
- Till Mount Installation



HOSPITAL



Bangkok Hospital Chiang Rai

PROJECT REFERENCE

LOW RISE



Condo The Cube Pracha Uthit



Condo Beach Front Lawai



Condo The Diamond Nawa Nakhon-Taladthai



Rajsthali Resort | India



Rameshwaram Residency | India



Condo Happy Condo



Condo The Cube Chaengwattana



Condo The Excel Groove



Cozii Pracha Uthit Village



Tassanee Village



Jakpaisarn Village



Hotel B2 Hat Yai



Hotel Beach Patong



Hotel Ramada Phuket

OTHER PROJECTS



Puno Adventure Arena | India



Viva City Mall | India

HIGH RISE



Condo The Tree Sukhumvit 71



Hotel Landmark Waterfront



Condo The Room Chareonkrung 30



J Condo



Ratdawan Market



Siam Paragon



Terminal 21 Korat

HOUSING