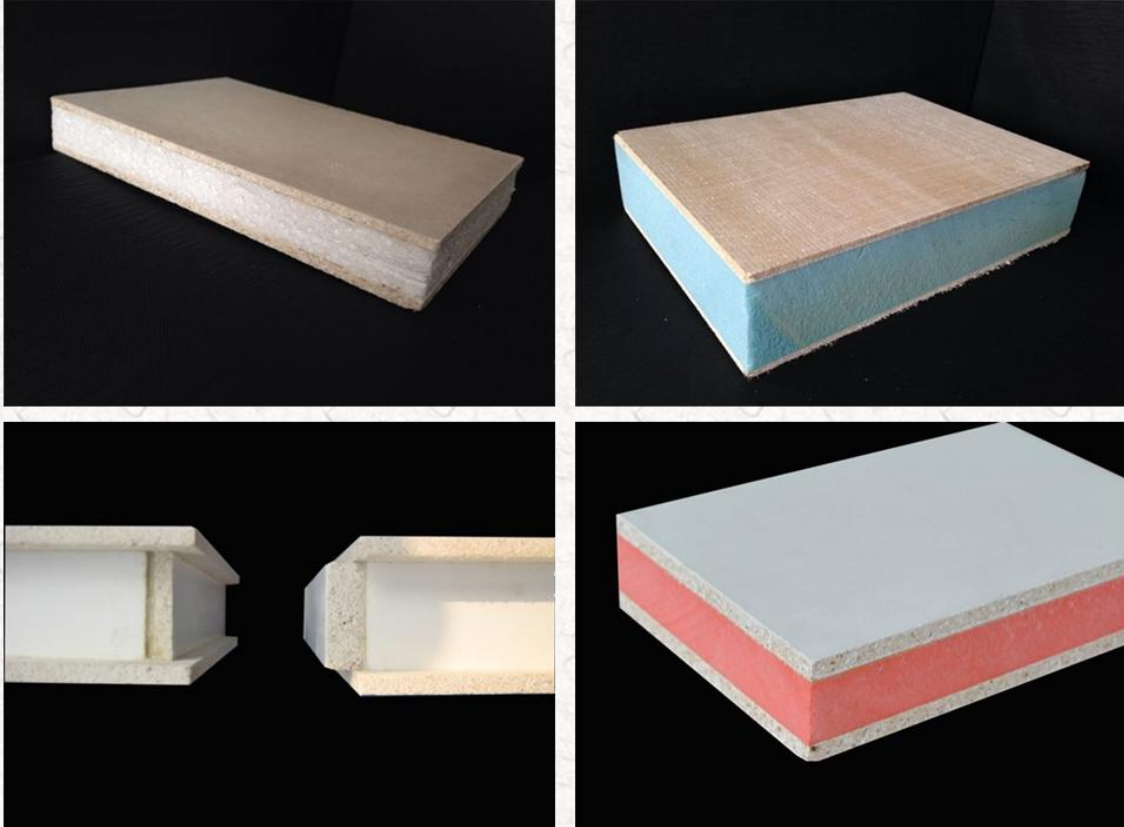


MGO SIP Panels(Magnesium Oxide Structural Insulated Panel) is a composite building material. They consist of a sandwich of two layers of structural board with an insulating foam in between. Panel skins are magnesium oxide boards. Insulation core can be Expanded Polystyrene(EPS), Extruded Polystyrene(XPS).



### Color available

Color of EPS: White

Color of XPS: Green& Pink

### Size available:

**Thickness for EPS:** 25mm to 200mm

Width for EPS:1200mm

**Thickness for XPS:** 25mm to 100mm

Width for XPS:600mm

**Length:** 2440mm, 2250mm, 2700mm, 2950mm, 1200mm

**Max Length:**3050mm

**Max Width:**1220mm

### Density Available:

**Volume weight for EPS:** 15kg/m<sup>3</sup> to 18 kg/m<sup>3</sup>

**Volume weight for XPS:** 28kg/m<sup>3</sup> to 32 kg/m<sup>3</sup>

**Density for MGO board:** 1000kg/m<sup>3</sup> to 1050 kg/m<sup>3</sup>

## Advantage



### Faster Construction Superior Workmanship

ZIGLEADER Mgo sip panels eliminate the need for framing, insulating and applying vapour barrier. Builders agree that panels dramatically improve on site construction quality and workmanship. Framing crews and insulation crews are no longer required. A single trade that can be trained in a matter of days can complete the entire building envelope with fewer tools. Shorter construction time brings financial benefits as well as reduced chance of material losses from the job site.



### Superior strength characteristics

ZIGLEADER Mgo sip panels are structurally stronger and straighter than a conventional stud frame structure. The EPS core provides rigidity and the Mgo Board outer skin provides tremendous tensile and compressive

strength. The result is a sound structure that is plumb, level, and impact resistant.



### Fire Resistant – Does not combust

Mgo Board is a non-combustible fire resistant sheathing material

Has zero flame spread and zero smoke contribution.

Provides class A thermal barrier

Is fire rated up to one hour.

Provides protection from both exterior to interior and interior to exterior.

Can contain fire in a room or unit.



### Significant heating and cooling cost savings

Continuous EPS insulation creates a true R value (R19 and R27) that performs as consistently in laboratory conditions as it performs in real life conditions. Other walls can exhibit more than a 50% loss in R value performance due to settling insulation, pinching, and degradation. Up to 40% smaller HVAC system can be utilized.



### Protect from mould growth and insect infestation

ZJGLEADER Mgo sip panels will not rot, mold or deteriorate. They are an effective rain screen. This prevents the “ Sick Condo ” or “ Sick Building ” problem of mould damage and the associated health hazards. MAGpro SIPS have no nutrients to feed mold or insects.



### Environmentally responsible

Long term savings on energy consumption combined with a dramatic decrease in jobsite framing lumber waste, and the inert, non nutritive, highly stable, non poisonous nature of our panels make them an environmentally responsible choice. Energy efficiency reduces greenhouse gas emissions that contribute to climate change.



### Can Reduce or eliminate the need for concrete

Screw Pile Footings can be used to replace concrete footings.

Basement Slabs Can Be Replaced by Panel or PWF Sleeper Floors.

\*Subject to Site Conditions, Architectural Plans and Engineering



### Excellent for winter construction

- No Cribbing, Curing, Hoarding Required for Basement Walls
- Panels Install Quickly
- Fast to Lock Up Stage
- Inexpensive to Heat While Finishing

### Application

1. interior and exterior wall partition on steel or concrete structure building
2. new construction or renovations.

It can replace construction materials such as red brick, air brick, color-coated steel sandwich board, gypsum block, wire spatial grid structure perlite board, perlite porous board and etc.

3. It can widely be applied to wall materials of various high and low buildings such as bank, office building, hospital, school, hotel, mall, amusement, old house reconstruction, residence and workshop.

