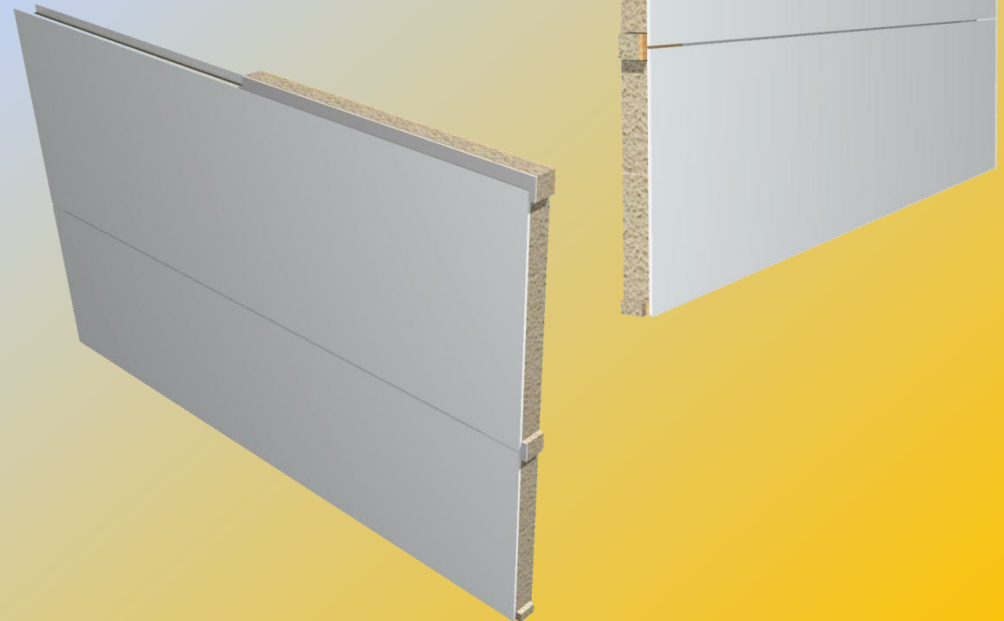


# EVOTHERM PLUS



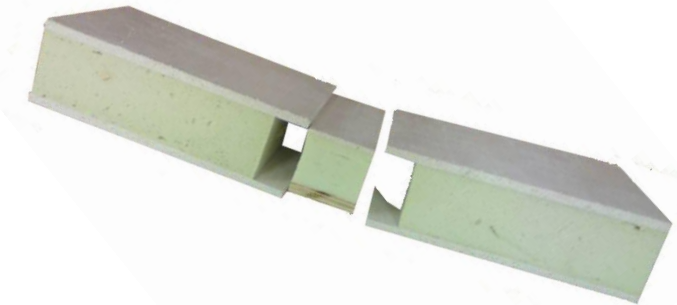
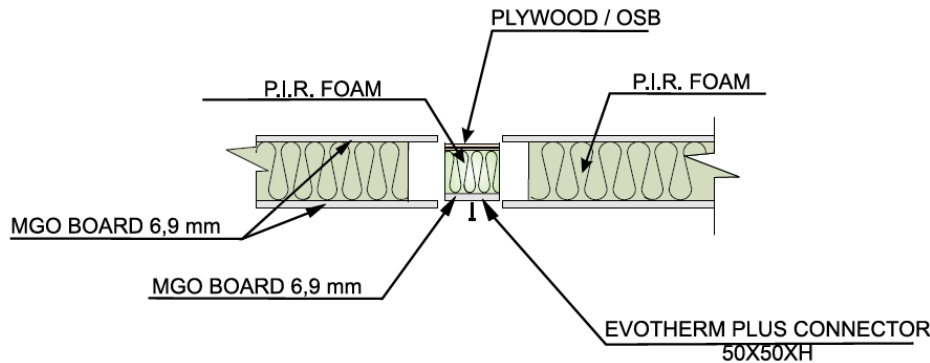
## CONTACT:

**E-mail:** [sips.community@gmail.com](mailto:sips.community@gmail.com)

**Skype:** SIPsCommunity

# PRODUCT DESCRIPTION

**EVOTHERM PLUS** are composite panels, consisting of a foam core of PIR sandwiched between 2 layers of MGO



**Standard Length: 2440 mm; Standard Width: 610 mm**

## PIR Foam:

- Produced in our factory exclusively using Bayer materials
- Green, non-flammable and non-combustible product
- The best thermal conductivity coefficient ( $\lambda=0,022\text{W/mK}$ )
- High density ( $46\text{ kg/m}^3$ ) rigid foam
- Thickness: 50mm

## MGO Board:

- A revolutionary product that allows any type of finishes to be used
- Green, non-flammable and non-combustible product, water resistant, light-weight
- Thickness: 6 mm; 9 mm

# USES and PROPERTIES

EVOTHERM PLUS is an efficient solution for

- **Thermal insulation** –walls and roofs
- **Cladding walls**
- **Permanent formwork**



EVOTHERM PLUS can be used for any type of construction and it is suitable for the existing buildings as well as for any new projects; the panels can be delivered in any shapes and dimensions



**Thermal insulation - Acoustic protection - Fire proof – Eco friendly product - Architectural flexibility - Time efficient - Cost efficient**

# INSTALLATION

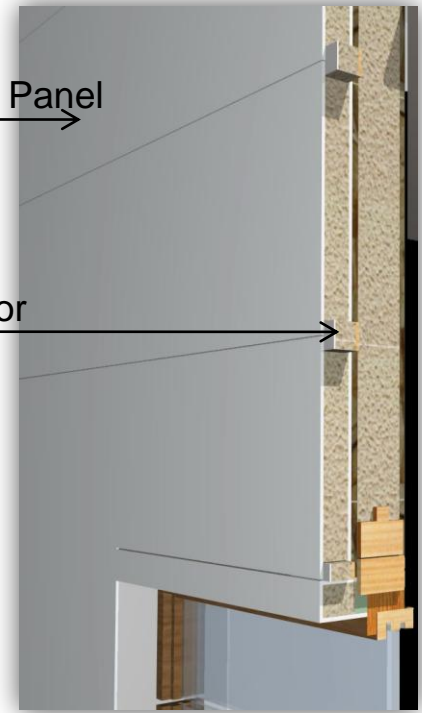
## BEFORE the installation :

### ▪ What is needed:

*Scaffolding, jig-saw, circular saw, meter, drilling machine, cutter, screw driver, spray foam, hammer, aluminium bar, screws for wood, raw blocks*

### ▪ How to start:

- *Clean and prepare the surface*
- *Make sure you have everything on place (tools, electricity etc.)*
- *Prepare and install the first panel as described in the technical details*



*Please refer to our Technical Manual for detailed instructions*

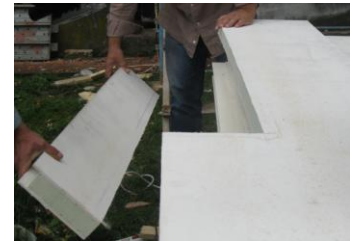
# INSTALLATION

EVOTHERM PLUS can be installed either **directly on the structure of the building**, or as **cladding solution**

Always the window and door openings need to be insulated as per the technical details

## How to install the panels directly on the wall:

- After the installation of the first panel, continue with the first line of the panels
- Install the second line of the panels
- Screw supports only on the connectors every 40 cm
- Spray foam will be applied on all joints
- After all panels were installed, apply tape and fill the joints



# INSTALLATION

## How to install the panels as cladding walls:

- The supporting elements (wood or metal) will be installed vertically every 40 cm
- Install the base panels as per our technical details
- Install the first line of the panels
- Install the second line of the panels
- Screw supports only on the connectors every 40 cm
- Spray foam will be applied on all joints
- After all panels were installed, apply tape and fill the joints

# ADVANTAGES

- Minimum thermal transfer coefficient and highly resistant to adverse weather conditions and temperature variations
- Protection against humidity, due to the properties of the panels
- Low sound transfer and vibrations
- Non flammable and incombustible
- Eco friendly product
- Suitable for any type of surface; optionally, any exterior finishes can be applied
- Does not require additional materials
- Preserves its original state and form



# BENEFITS

- Near zero energy costs
- Longer lifetime of the building
- ECO compliant home
- Durability – External protection
- Does not generate harmful emissions, ensuring healthy living standards
- No unreasonable structural loads for the building
- Easy to use, both by specialists or unskilled hands
- Up to 4 times faster installation than other methods or products





# TECHNICAL TEST ANALYSIS RESULTS

Crt. No	Performance criteria	Methodology	UM	Reference level	Product performance
1	Water permeability on the surface of the product	SR EN 1062-3 : 2001	kg / (m <sup>2</sup> h <sup>0.5</sup> )	< 0,5	0,44
2	Impact resistance	SR EN 13 497 : 2004	Level 2 No damages at 2 J	Level 2	Level 2
3	Penetration resistance	SR EN 13 498 : 2004	N	> 200 Level PE 200 > 500 Level PE 500	660 Level PE 500
4	Age resistance combined with external factors	Proc. Int.	cycles	Withstand without damage at 100 cycles (80 cycles of heat-rain and 20 cycles of freeze-unfreeze)	Pass
5	Vapour permeability	SR EN ISO 7783-2 : 2002	g / ( m <sup>2</sup> zi )	> 20	30,04
6	Thermal resistance	EN 12667:2001	m <sup>2</sup> K/W	> 2,1	2,2
7	Fire reaction class	SR EN 13501-1: 2007	class	.-	B-s2, d0