

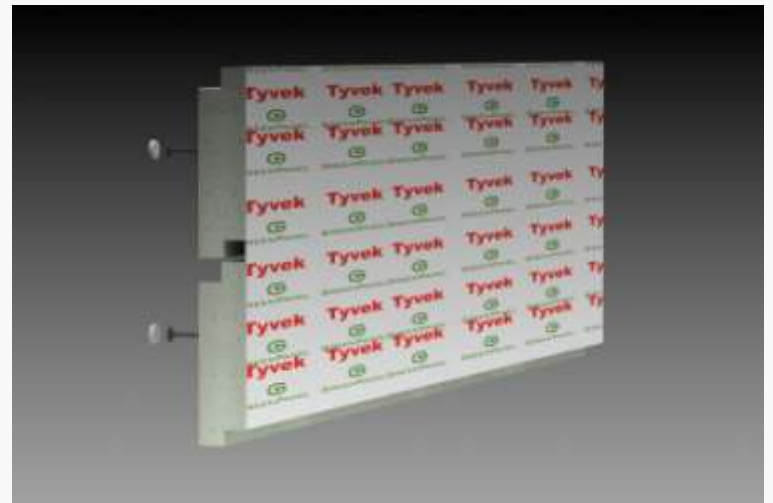
EVOTHERM



WHAT IS EVOTHERM?



- ❑ Thermal insulation solution
- ❑ Method of insulating and finishing building facades



EVOTHERM DESCRIPTION



- ❑ GREEN PANEL composite panels, consisting of:
 - ❑ Interior – Tyvek hydro insulating Membrane (by DuPont)
 - ❑ Thermal insulating PIR foam (raw materials provided by Bayer)
 - ❑ Exterior – MGO Board (produced by Enron)



PIR FOAM – Features:



- Dimensions: 50 mm
- Density: 46 kg / m³

- The best thermal transfer coefficient
- Insulation without thermal bridges
- Maintains constant temperature for a long time



MGO BOARD - Features



- Thickness: 3 mm, 6 mm, 9 mm
- Standard Length: 2,44 m
- Standard Width: 1,22 m

- Fireproof
- Green product
- Made of recyclable materials
- Protects the building against adverse external conditions



TYVEK HYDRO INSULATING MEMBRANE - Features



- Thickness : 0,17 mm

- Protects from humidity
- Evites condensation, allows walls to breathe
- Long term resistance during construction
- Durability

WHERE TO USE EVOTHERM

Any type of buildings

- New
- Already built, for rehabilitation:

Residential

Commercial

Industrial

Specialised

Public institutions – hospitals, schools, churches etc.

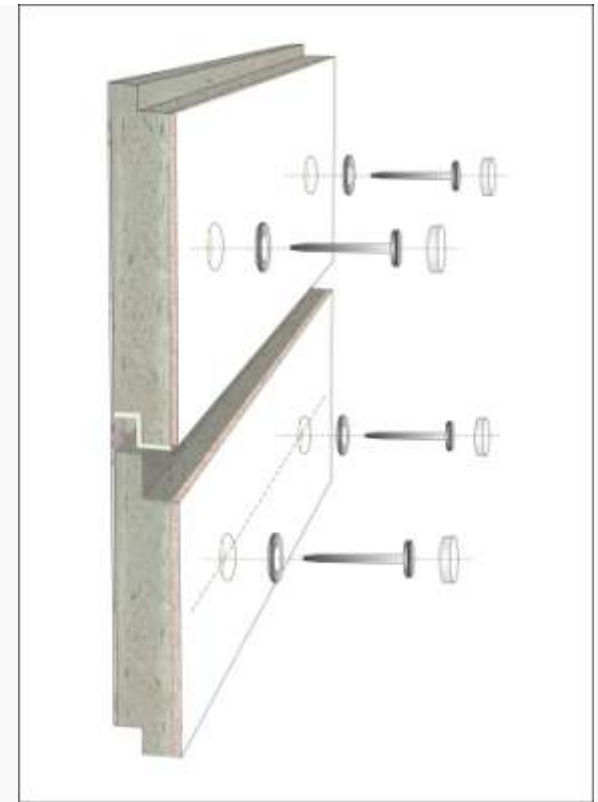
Hotels



MOUNTING EVOTHERM



- ❑ Supporting bolts are applied to the panels in the depicted points
- ❑ Accessories provided and delivered together with the Evotherm panels



EVOTHERM FEATURES



- Thermal insulation
- Phonic insulation
- Fire proof
- Green product
- Architectural flexibility
- Time efficient
- Cost efficient



ADVANTAGES



- Minimum thermal transfer and highly resistant to adverse weather conditions and temperature variations
- Panels are protected from humidity
- Low sound transfer and vibrations
- Non flammable and incombustible
- Ecological 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 ² h ^{0.5})	< 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 ² zi)	> 20	30,04
6	Thermal resistance	EN 12667:2001	m ² K/W	> 2,1	2,2
7	Fire reaction class	SR EN 13501-1: 2007	class	.-	A1 (C ₀)

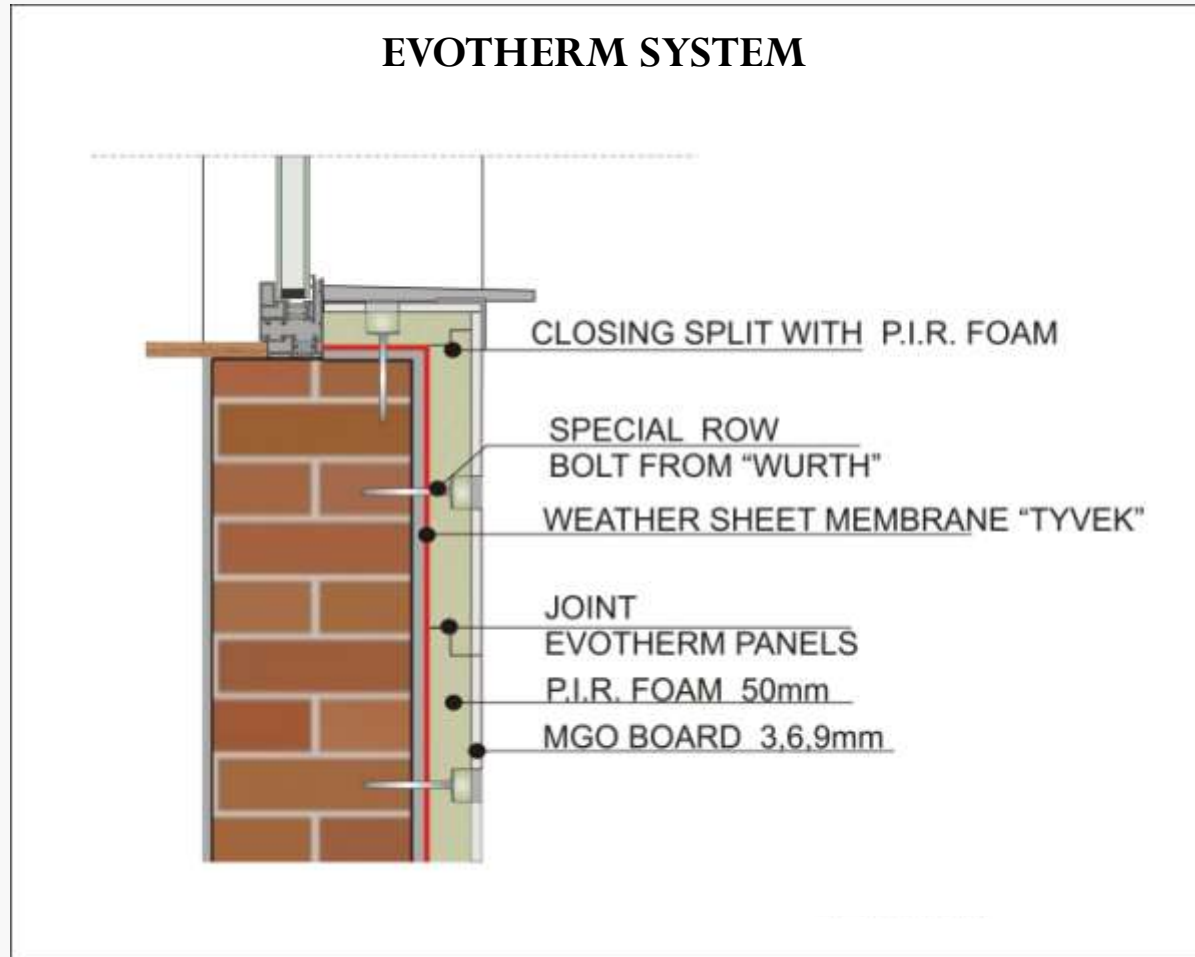
Approved by *Ministry of Regional Development and Housing, Permanent Technical Council for Construction*

TECHNICAL DETAILS

EVOTHERM SYSTEM

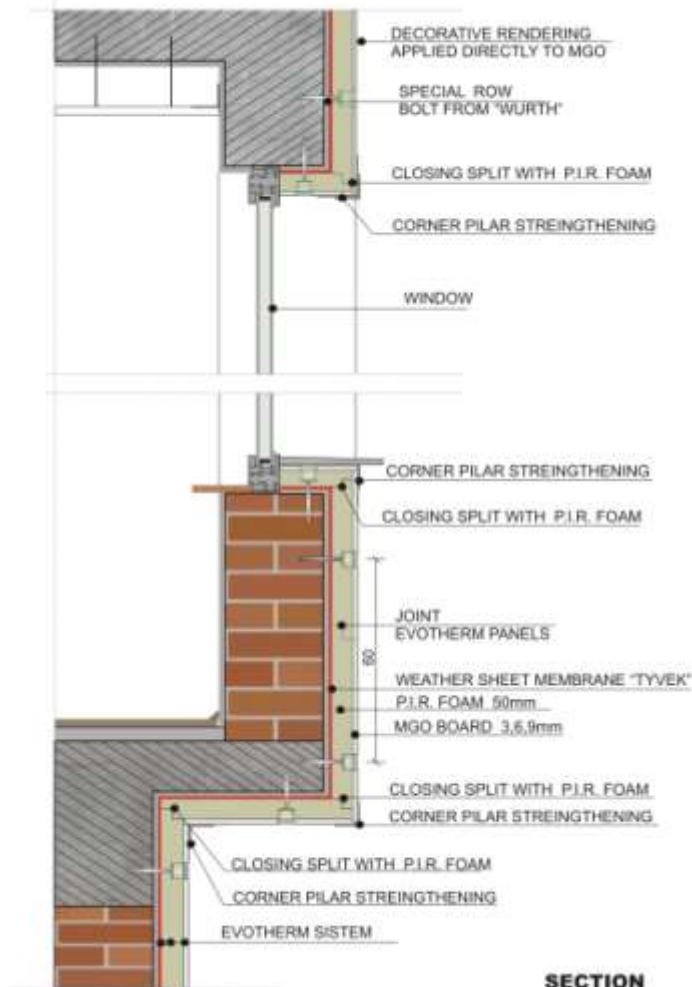


TECHNICAL DETAILS



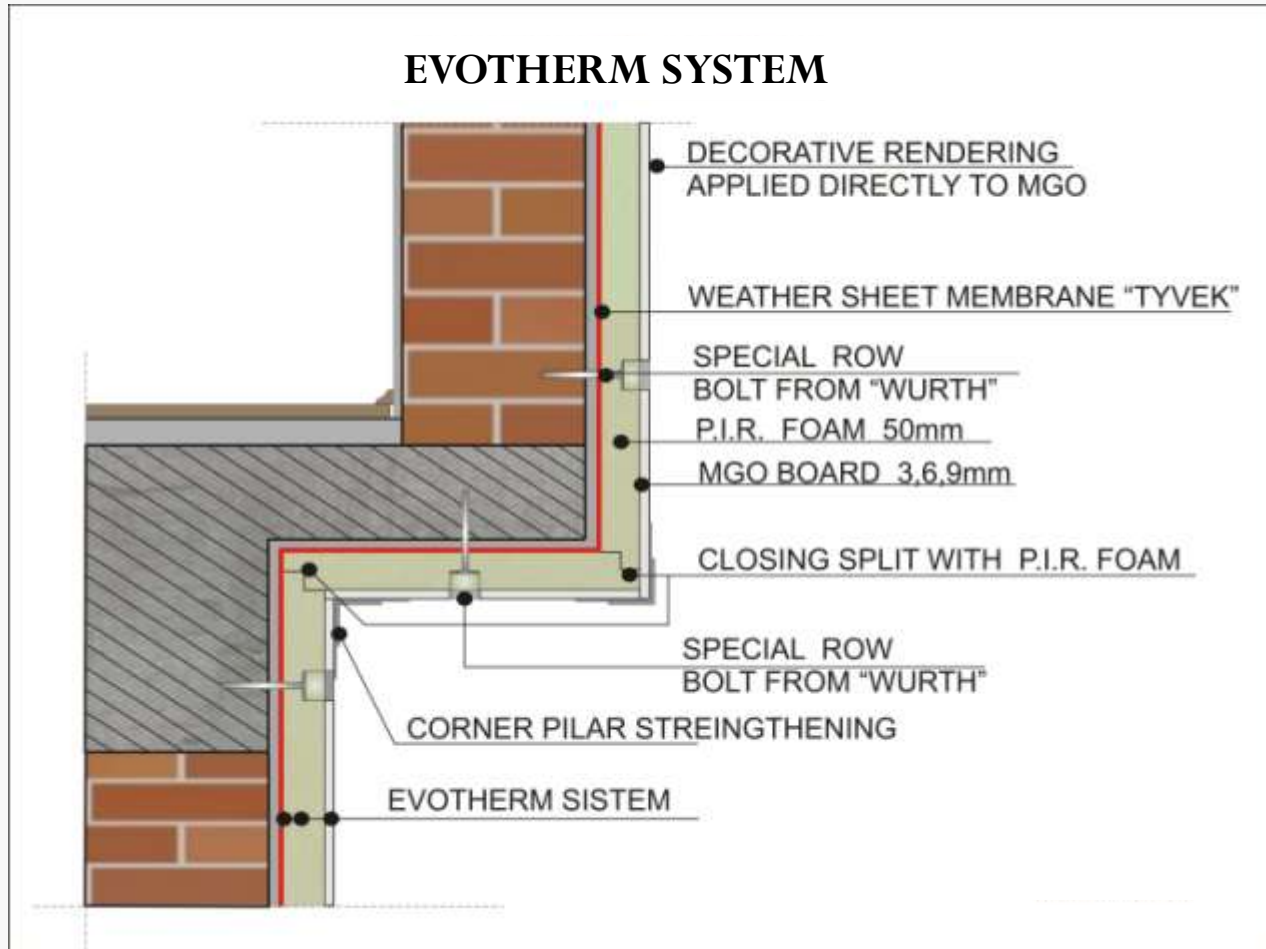
TECHNICAL DETAILS

EVOTHERM SYSTEM



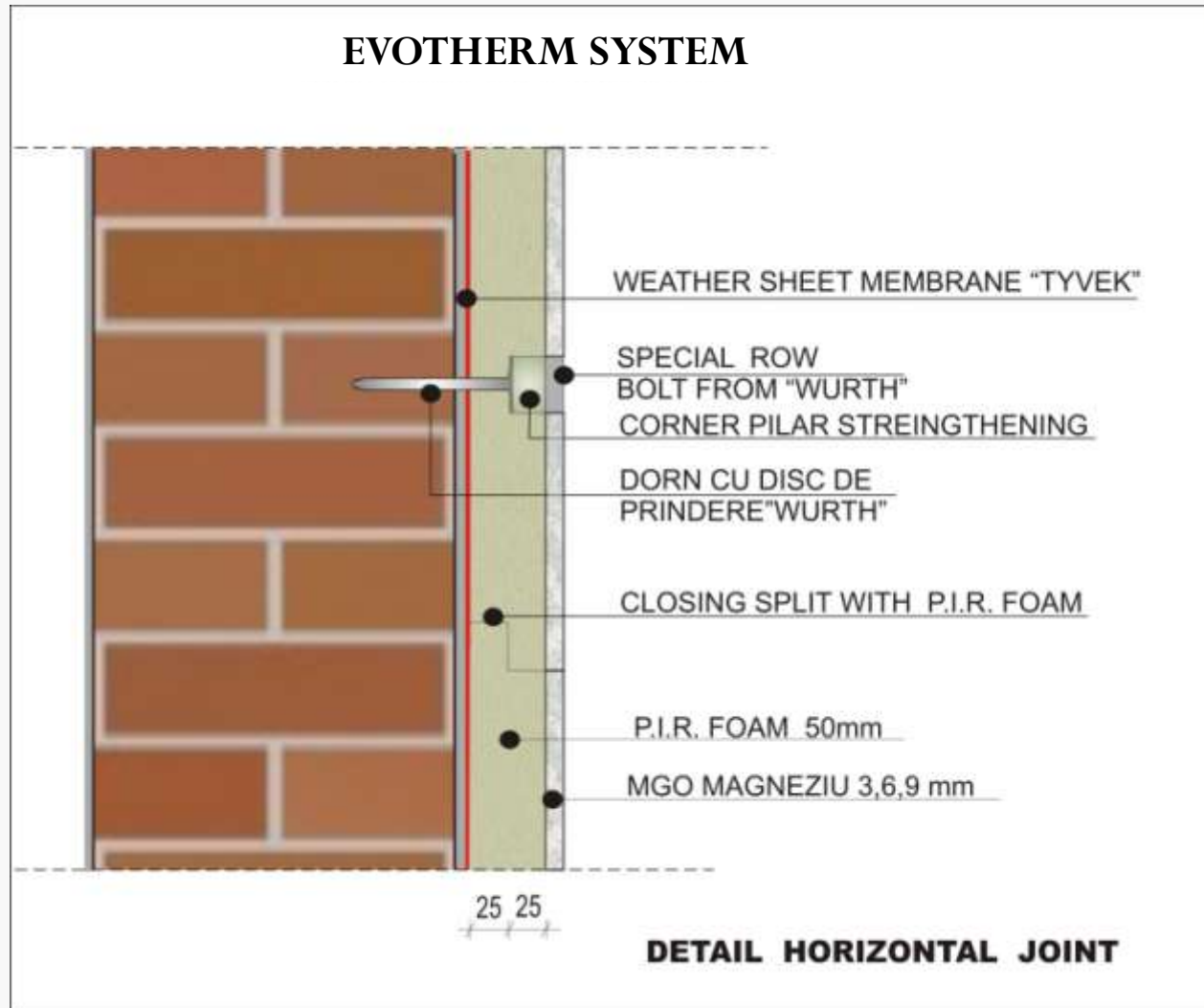
SECTION

TECHNICAL DETAILS

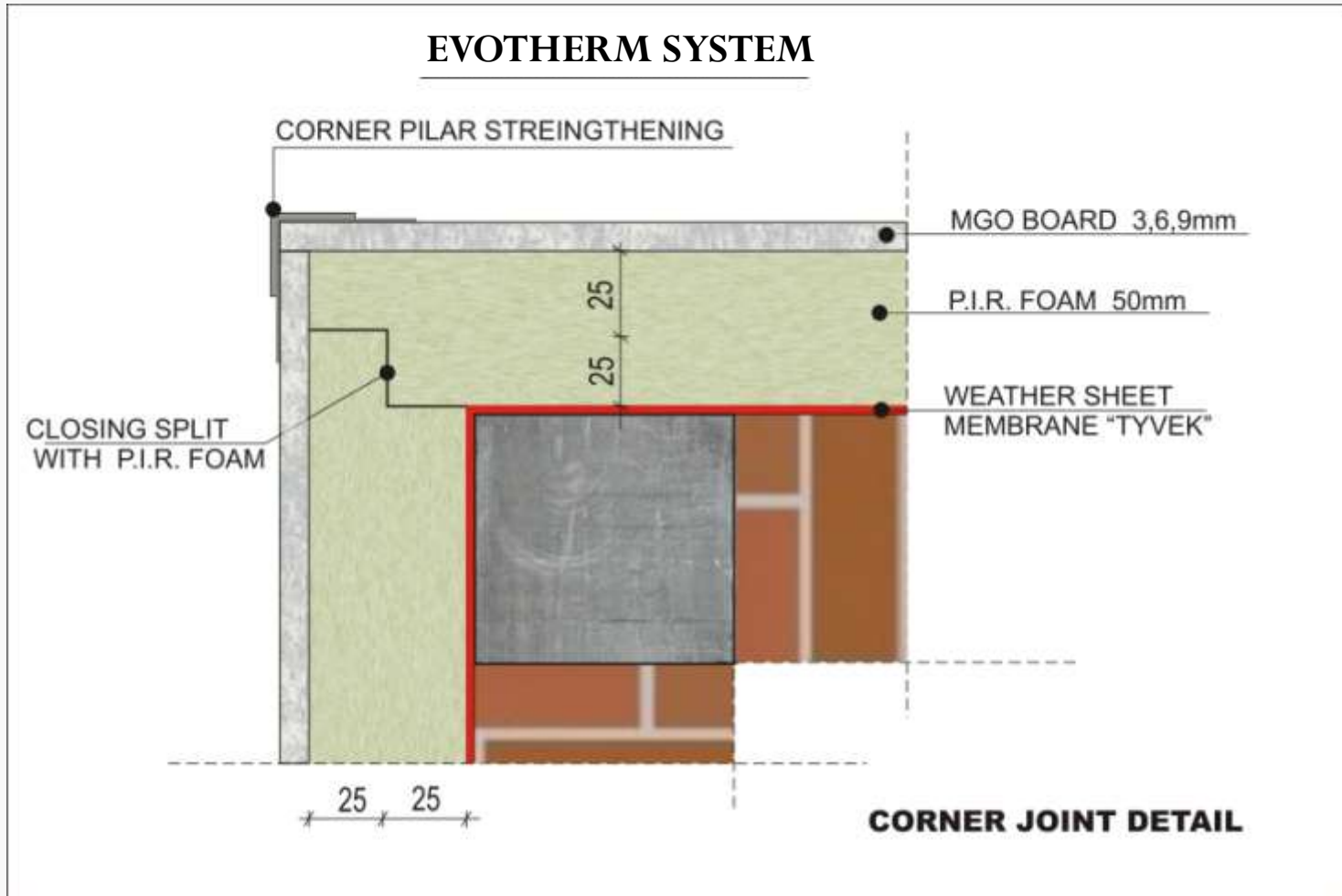


TECHNICAL DETAILS

EVOTHERM SYSTEM



TECHNICAL DETAILS



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