

QUALITIES OF THERMO BLOCKS:

- Resistant to freezing
- Resistant to humidity
- Good sound insulation
- Ecological product
- Easily workable
- Robust and durable
- High fire safety – response to fire Class A1
- Energy efficient – reduced heating and cooling costs
- Excellent heat insulation in winter, in summer rooms are pleasantly cool

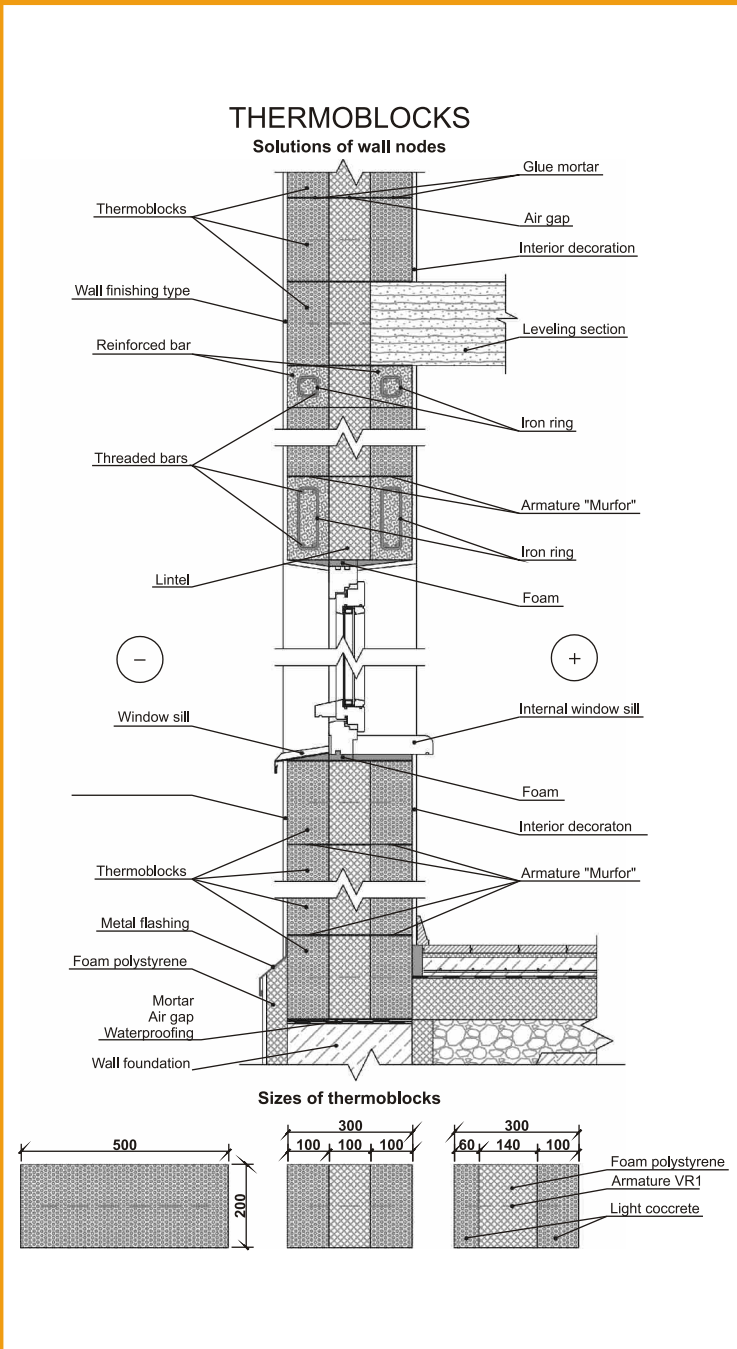


“WARM HOUSE” Ltd.
Reg. No. 40003857899

GSM:

e-mail:
info@thermoblocks.com
www.thermoblocks.com

**WHY TO BUILD AND INSULATE?!
BUILD A WARM HOUSE AT ONCE!!!**



WARM HOUSE LTD



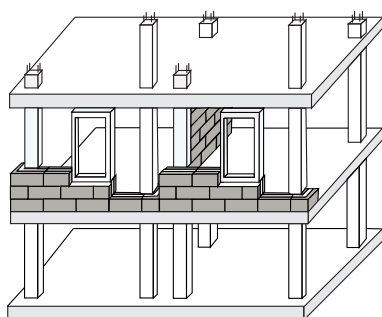
www.THERMOBLOCKS.com



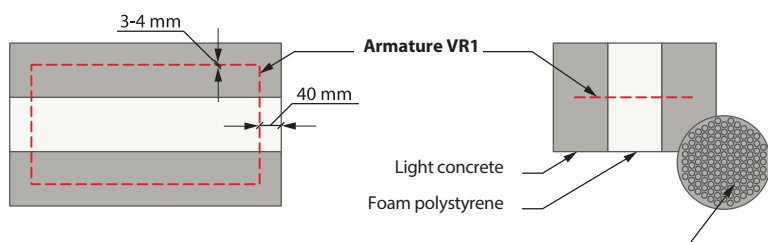
EXCELLENT CONSTRUCTION MATERIAL FOR PASSIVE AND ENERGY EFFICIENT HOUSES

- The light concrete possesses all the best qualities of stone and wood
- The bearing parts are made of the light concrete – cement, sand, water + closed air pores
- Heat insulating part – non-toxic, ecologic and pervious to steam foam polystyrene EPS
- Thermo blocks are characterised by excellent heat and sound insulation
- Outstanding resistance to humidity, freezing and fire
- No additional heat insulation or levelling of walls is required
- There is mutual amortization between concrete parts of thermo blocks, thus deformation of walls (formation of cracks) caused by impacts (seismic areas) and vibrations (railway, highway) is prevented
- Walls “breathe” – create pleasant climate in rooms and prevent formation of mould
- No “dew point” gets formed in walls made of three-section blocks
- Thermo blocks are reinforced (armature – VR 1)
- Robust and easily workable – can be polished, sawn, nailed
- Accurate shape and size permits to use glue of joints (thickness of joints 1 – 2 mm), which prevents formation of “cold bridges”
- Heat insulation (foam polystyrene) in the middle of a wall is not damaged by rodents, infrared radiation, weather conditions and it is protected against mechanical damage (contrary to walls with external heat insulation from outside)
- Thermo blocks are light (16 – 20 kg depending on the type) and do not exert high loads upon foundations of buildings. (Increased load exerted upon foundations of buildings cause their deformation and cracks in walls)
- When thermo blocks are used in construction larger inside area in sq. meters is obtained with equal size of a building site, because the thickness of an insulated wall amounts to just 30 cm
- Number of employed workers is reduced
- Construction terms get shorter
- Transportation costs and volume of materials to be delivered to the construction site decrease
- No high capacity and expensive heating equipment is required
- Minimum expenditure for heating in winter and air conditioning in summer
- We recommend to use alternative energy sources in buildings built from thermo blocks – wind generators, earth heat pumps, solar batteries and collectors. (Energy efficient and passive houses)

Thermo blocks in multi-storey buildings

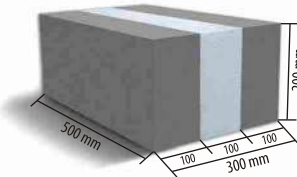


Certification :

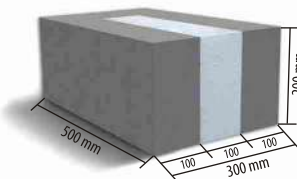


THERMO BLOCKS

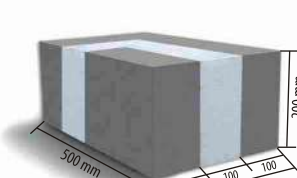
TB 1-100 row blocks



TB 2-100 aperture blocks

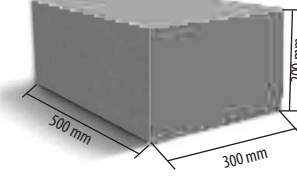


TB 3-100 corner blocks

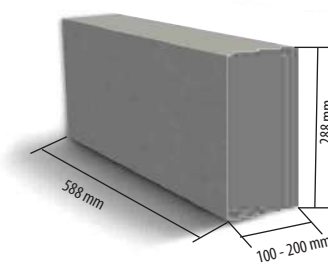


THERMO BLOCKS

TB 1

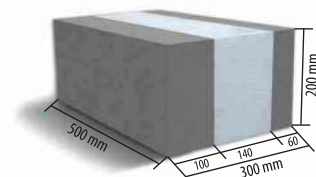


INNER WALL THERMO BLOCKS

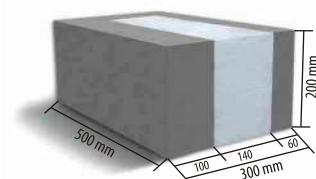


THERMO BLOCKS with increased energy efficiency

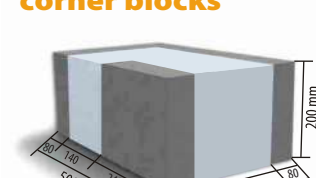
TB 1-140 row blocks



TB 2-140 aperture blocks

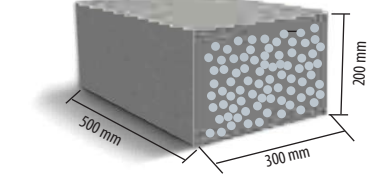


TB 3-140 universal corner blocks

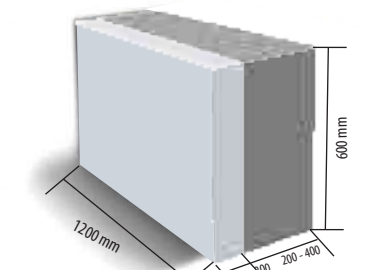


Foam glass granulated blocks

TB1 - FG



ECO light concrete blocks



Technical specification

Mass volume kg/m³:	Light concrete 600-1200
Heat insulation:	Foam polystyrene EPS
Heat conductivity (W/mK):	Foam polystyrene - 0,033 Light concrete – 0,12 - 0,15
Heat permeability of thermo blocks:	U = 0.15 – 0.19 W / (m ² K)
Pressure strength (Mpa):	2,5-6
Sound insulation (Rw):	54-61 dB
Freezing resistance (cycles):	F 50
Water absorption (long-term):	Light concrete 6-8 % Foam polystyrenes 2-3 % Foam polystyrene Mi – 28.4
Shrinkage mm/m:	< 0.1
Weight of thermo blocks (Kg):	16-24
Sizes and tolerances (mm):	Width: +1/-2 Height: +1/-2 Length: +1/-3
Foam polystyrene EPS (mm)	100-300
Number of thermo blocks per m²:	1,4/5,9/8,5/10 pcs.
Consumption of blocks glue per m²:	2,5-3,5 kg

