



BRICK
CIGLANA GRAHOVO

BRICKBLOCK CATALOGUE

innovation

Quality

Reliability

www.brickgrahovo.com



WELCOME TO THE WORLD OF AUTOMATED BRICK-MAKING



Jelena Madžarić
Executive manager

Brickworks in Bosansko Grahovo was founded in 1953. Since its founding the brickworks has been organized in various forms, but the main thing that makes brick made in Grahovo, widely known for their strength, is found in its base material - clay. Nowadays, the clay is handled by modern technology in a highly automated plant of world-renowned manufacturers of clay machinery such as Händle, Fanuc and Freymatic.

To Improve the quality of our products, we consistently follow the events in the world of brickworks equipment and technology, and we also implement this knowledge in our own manufacturing. We are very proud of thinking globally and high-tech manufacturing, working

locally, employing and educating people from the local community, and making efforts to develop an underdeveloped region.

The brick as a natural building material can last almost eternally. In production, the brick is an environmentally friendly product, and even after its use the brick returns to nature to its natural cyclical flow.

In this catalogue we have prepared for you our classical block formats as well as the Z blocks with our unique honeycomb system that improves the thermal properties of a building.

Build safe with our products!



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CONTACT

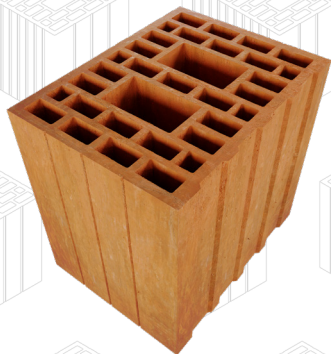
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catalogue designed by: Boban Karanović



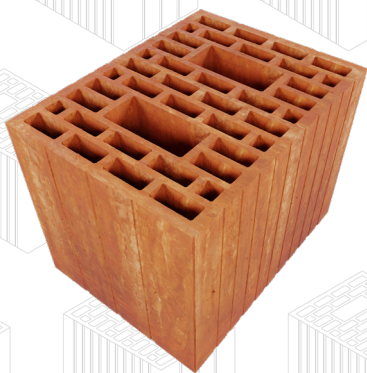
BRICK CLASSIC BLOCKS

BRICKBLOCK 4.6



- **Dimensions:** 250/190/190 mm
- **Mark:** M10(min 10N / mm²)
- **NF:** 4.6
- **Packaging:** 160 units/ palette
- **Mass:** 6.9 kg
- **Brick usage:** 19.7 - 24.6 units/ m²
- **Wall assembly time:** 1.25 h/m²
- **Mortar usage:** 24 - 35 l/m²

BRICKBLOCK 5.4



- **Dimensions:** 290/190/190 mm
- **Mark:** M10(min 10N / mm²)
- **NF:** 5.4
- **Packaging:** 140 units/ palette
- **Mass:** 7.7 kg
- **Brick usage:** 16.4 - 24.6 units/ m²
- **Wall assembly time:** 1.34 h/m²
- **Mortar usage:** 22 - 39 l/m²

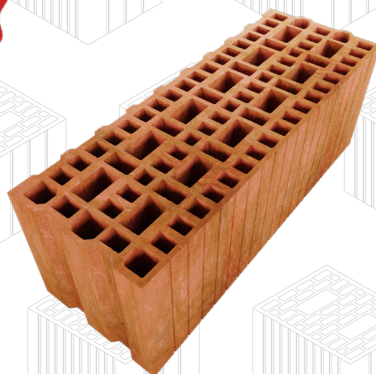
BRICK Z BLOCKS

BRICK 25Z



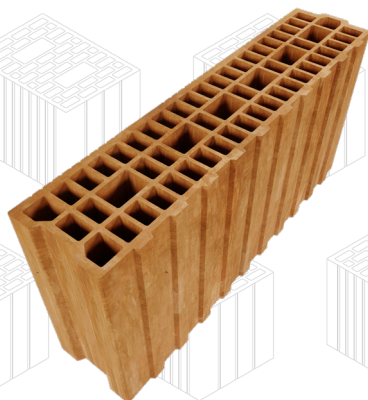
- Dimensions: 250/375/238 mm
- Mark: M10(min 10N / mm²)
- NF: 11.4
- Packaging: 72 units/ palette
- Mass: 14.5 kg
- Brick usage: 10.7 units/m²
- Wall assembly time: 0.63 h/m²
- Mortar usage: 23.20 l/m²

BRICK 19Z



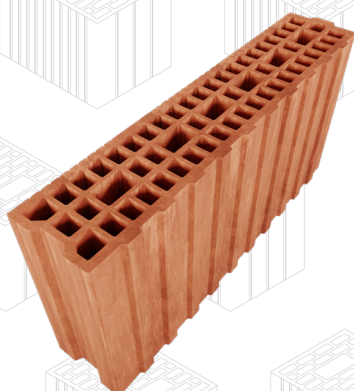
- Dimensions: 500/190/190 mm
- Mark: M10(min 10N / mm²)
- NF: 11.6
- Packaging: 70 units/ palette
- Mass: 16.90 kg
- Brick usage: 8 units/ m²
- Wall assembly time: 0.52 h/m²
- Mortar usage: 10 l/m²

BRICK 12Z

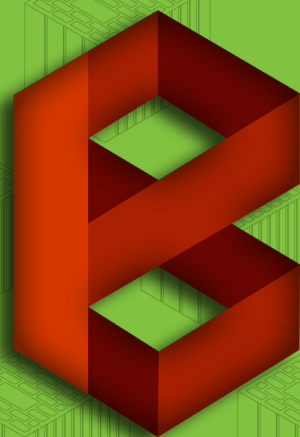


- Dimensions: 115/500/238 mm
- Mark: M10(min 10N / mm²)
- NF: 7.0
- Packaging: 100 units/ palette
- Mass: 10.9 kg
- Brick usage: 8 units/ m²
- Wall assembly time: 0.3 h/m²
- Mortar usage: 6.1 l/m²

BRICK 10Z



- Dimensions: 100/500/238 mm
- Mark: M10(min 10N / mm²)
- NF: 6.1
- Packaging: 120 units/ palette
- Mass: 9.0 kg
- Brick usage: 8 units/ m²
- Wall assembly time 0.28.25 h/m²
- Mortar usage: 5.3 l/m²



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BRICK CLASSIC BLOCKS

4.6 5.4

ADVANTAGES OF BRICK CLASSIC BLOCKS

• FIREPROOF MATERIAL:

- BRICK CLASSIC BLOCKS ARE FIRE RESISTANT AND MEET THE HIGHEST FIRE-PROTECTION STANDARDS.

• IMPROVED THERMAL PROPERTIES:

- SAVING ENERGY REQUIRED FOR HEATING AND COOLING, INNER FACES OF THE WALLS ARE PLEASANTLY WARM WHILE OPTIMAL AIR CONDITION IS ENSURED IN THE BUILDING THROUGHOUT THE YEAR.

• ECOLOGICAL PRODUCT

- BRICK CLASSIC BLOCKS ARE MADE FROM RAW NATURAL MATERIALS WITHOUT ANY ARTIFICIAL ADDITIVES.

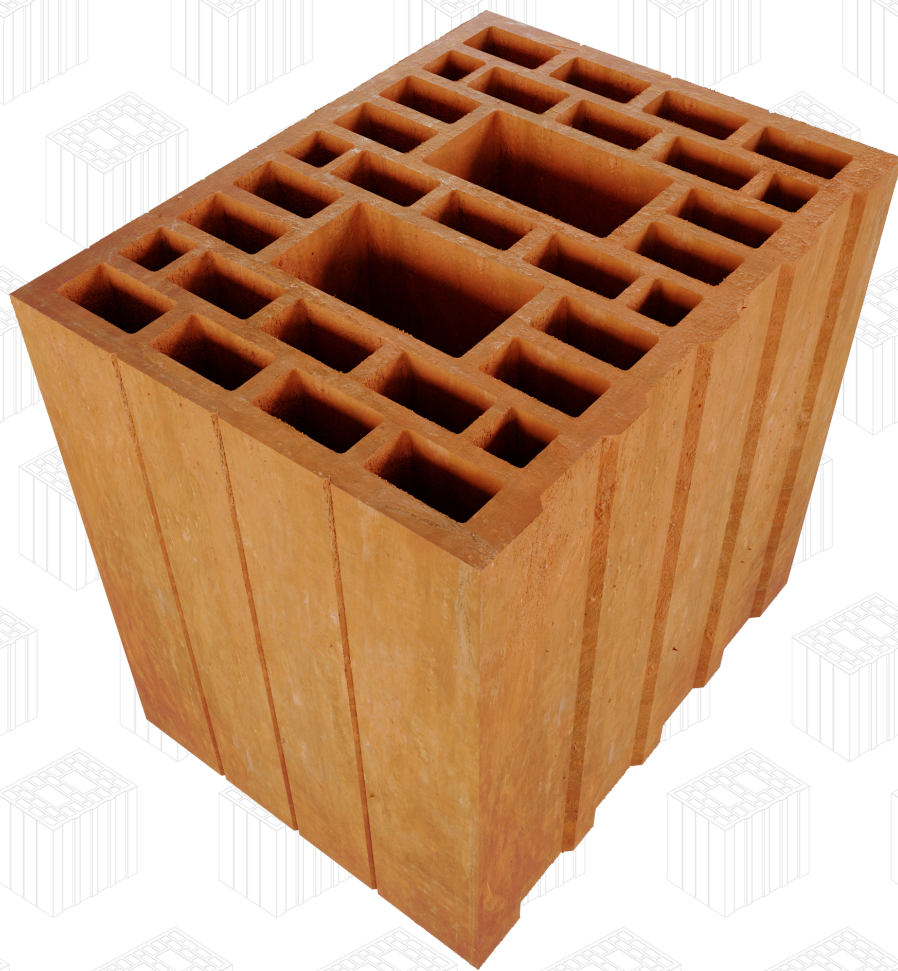
• HUMIDITY PROTECTION

- FOR WALL DRYING, APART FROM HAVING DIFFERENT TEMPERATURAL CONDITIONS, IS CRUCIAL TO HAVE HIGH CAPILLARY CONDUCTIVITY AS WELL AS LOW DIFFUSION RESISTANCE FACTOR. BRICK CLASSIC BLOCKS FUSES IN ITSELF THESE PROPERTIES WHICH HELP IT CREATE A COMFORTABLE TEMPERATURE IN THE ROOMS WHILE OUTER WALLS REMAIN DRY.



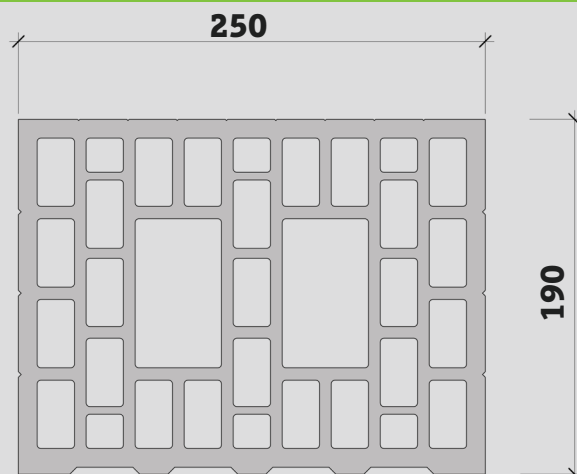
BRICK CLASSIC BLOCK

BRICKBLOCK 4.6



SPECIFICATIONS

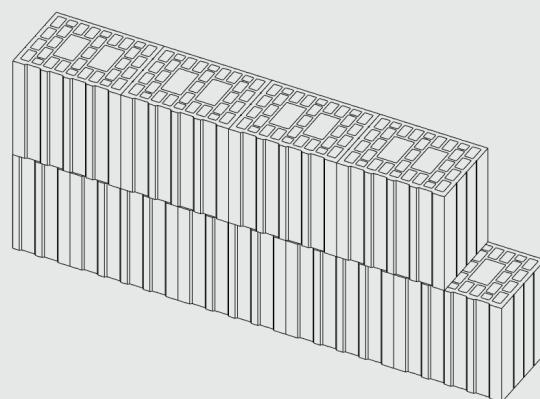
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- **Mass:** 6.9 kg
- **Brick Usage:** 19.7 - 24.6 units/ m²
- **Wall assembly time:** 1.25 h/m²
- **Mortar usage:** 24 - 35 l/m²



BRICK CLASSIC BLOCK

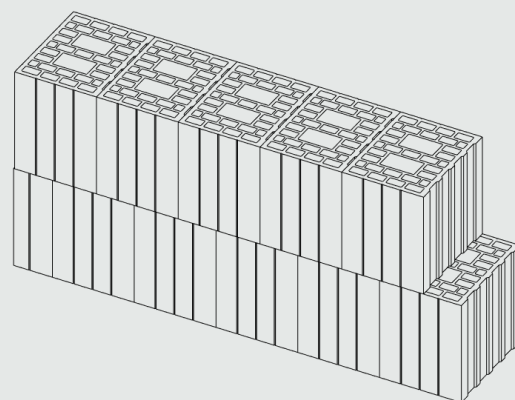
BRICKBLOCK 4.6

Longitudinal stacking



For 19 cm thick walls

Transverse stacking

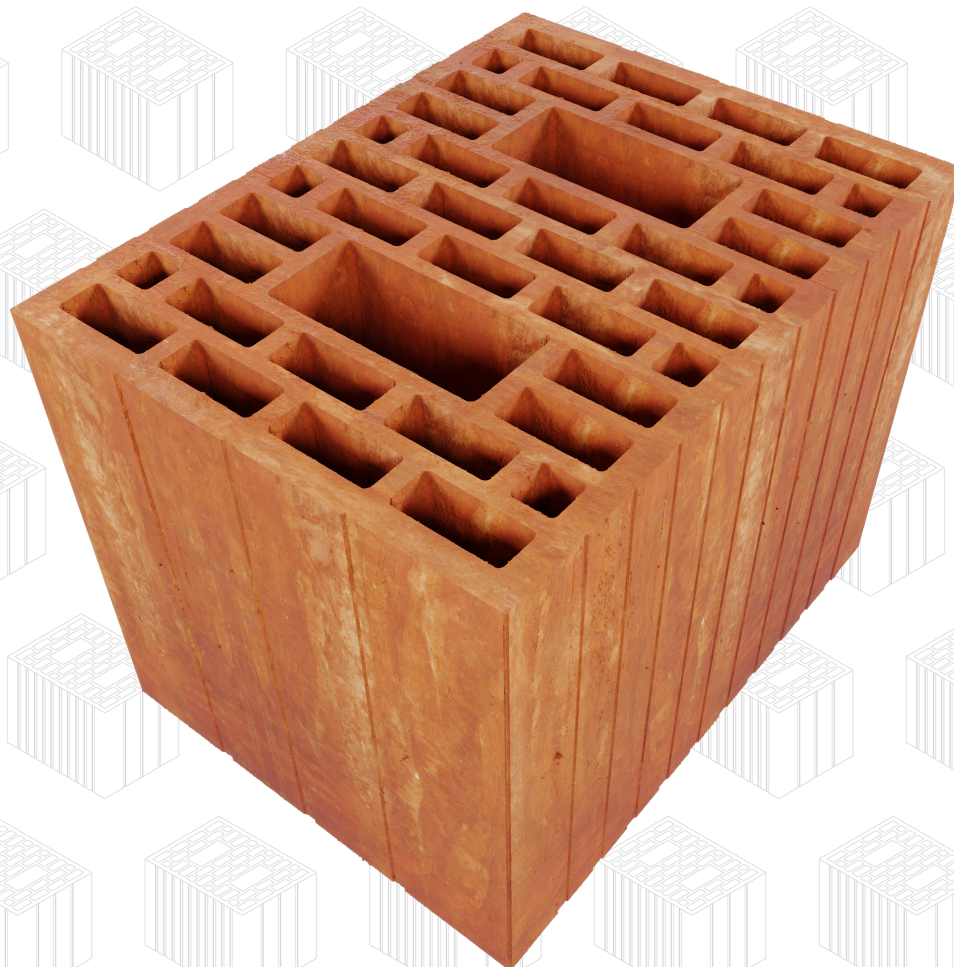


For 25 cm thick walls

NOTES:

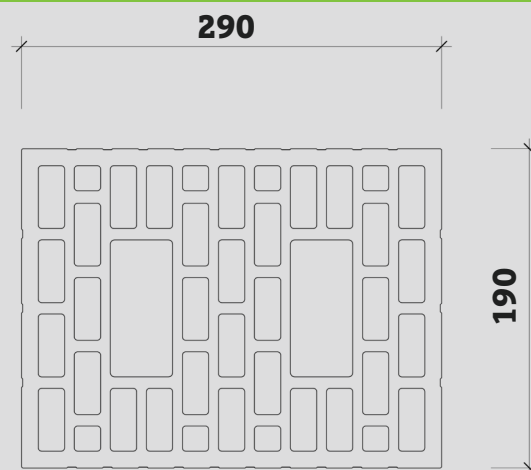
BRICK CLASSIC BLOCK

BRICKBLOCK 5.4



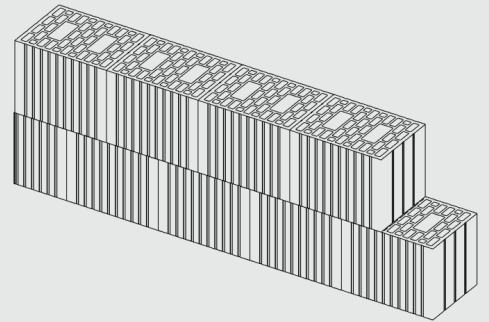
SPECIFICATIONS

- **Dimensions:** 290/190/190 mm
- **Mark:** M10(min 10N / mm²)
- **NF:** 5.4
- **Packaging:** 140 units/ palette
- **Mass:** 7.7 kg
- **Brick usage:** 16.4- - 24.6 units/ m²
- **Wall assembly time:** 1.34 h/m²
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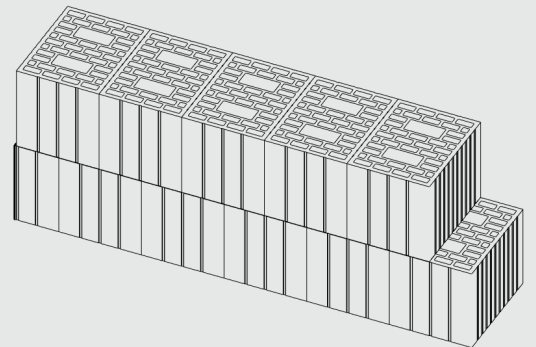
BRICKBLOCK 5.4

Longitudinal stacking



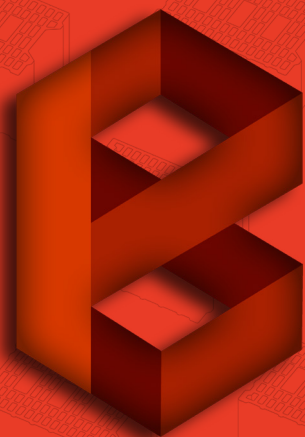
For 19 cm thick walls

Transverse stacking



For 29 cm thick walls

NOTES:



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BRICK Z BLOCKS

25Z 19Z 12Z 10Z

ADVANTAGES OF BRICK Z BLOCKS

- **IMPROVED THERMAL PROPERTIES:**

- SAVING ENERGY REQUIRED FOR HEATING AND COOLING, INNER FACES OF THE WALLS ARE PLEASANTLY WARM WHILE OPTIMAL AIR CONTIDITON IS INSURED IN THE BUILDING THROUGHOUT THE YEAR.

- ENERGY SAVING:**

DENSITY, OPENINGS LAYOUT, AND THE POROUS MASS OF BRICK RESULT IN GREATER THERMAL RESISTANCE. THERMOINSULATING PROPERTIES OF BRICK Z BLOCKS ARE EQUAL TO THE PROPERTIES OF THE WALL BUILT WITH TWO ROWS OF CLASSIC BRICK BLOCKS. SAVING UP TO 50% ON BUILDING'S HEATING.

- SAVINGS IN MATERIAL USAGE:**

- LESS BLOCKS NEEDED PER m^2
- LESS MORTAR USAGE, UP TO 50% LESS
- FLATNESS OF SURFACES AND DIMENSIONAL CORRECTNESS RESULT IN LESSER USAGE OF MORTAR AND FASTER WALL CONSTRUCTION.

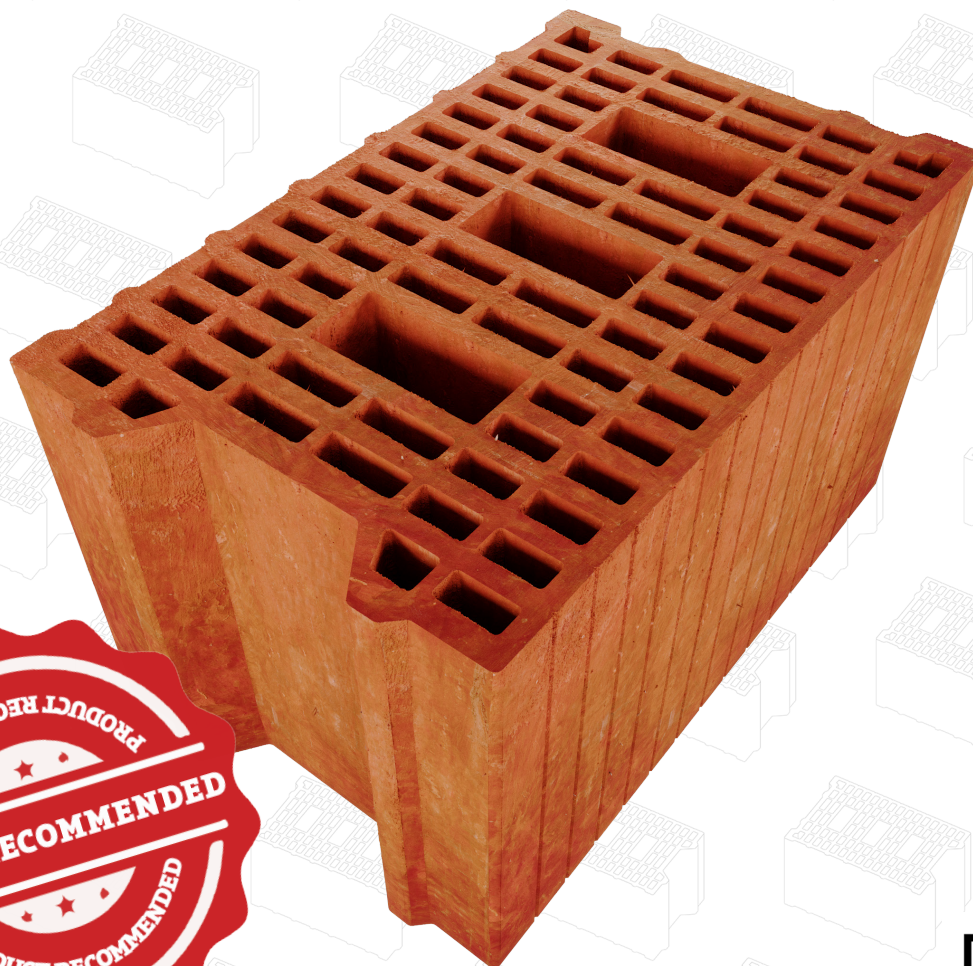
- OTHER ADVANTAGES:**

- GREAT SOUND INSULATION OF BRICK Z BLOCKS
- MODERN TECHNOLOGY WITH POSSIBILITIES OF RECYCLING ARE ENSURING ECOLOGICAL ACCEPTABILITY AND SUSTAINABILITY.



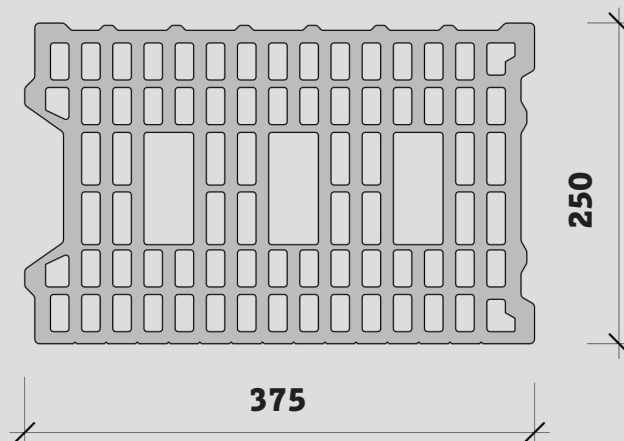
BRICK Z BLOCK

BRICK 25Z



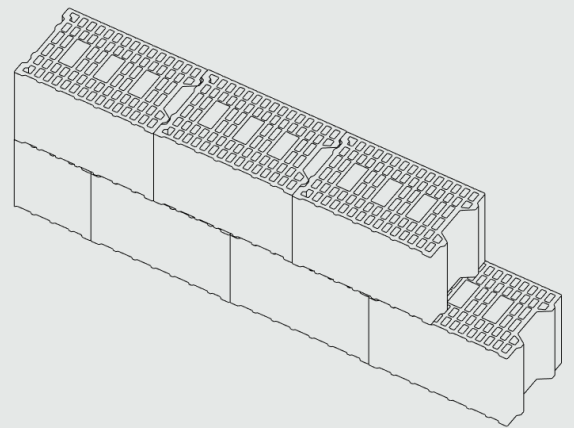
SPECIFICATIONS

- Dimensions: 250/375/238 mm
- Mark: M10(min 10N / mm²)
- NF 11.4
- Packaging: 72 units/ palette
- Mass: 14.5 kg
- Brick usage: 10.7 units/m²
- Wall assembly time: 0.63 h/m²
- Mortar usage: 23.20 l/m²



BRICK 25Z

Longitudinal assembly



For 25 cm thick walls

Improved thermal properties, with low coefficient of thermal conductivity, are saving energy required for heating and cooling.

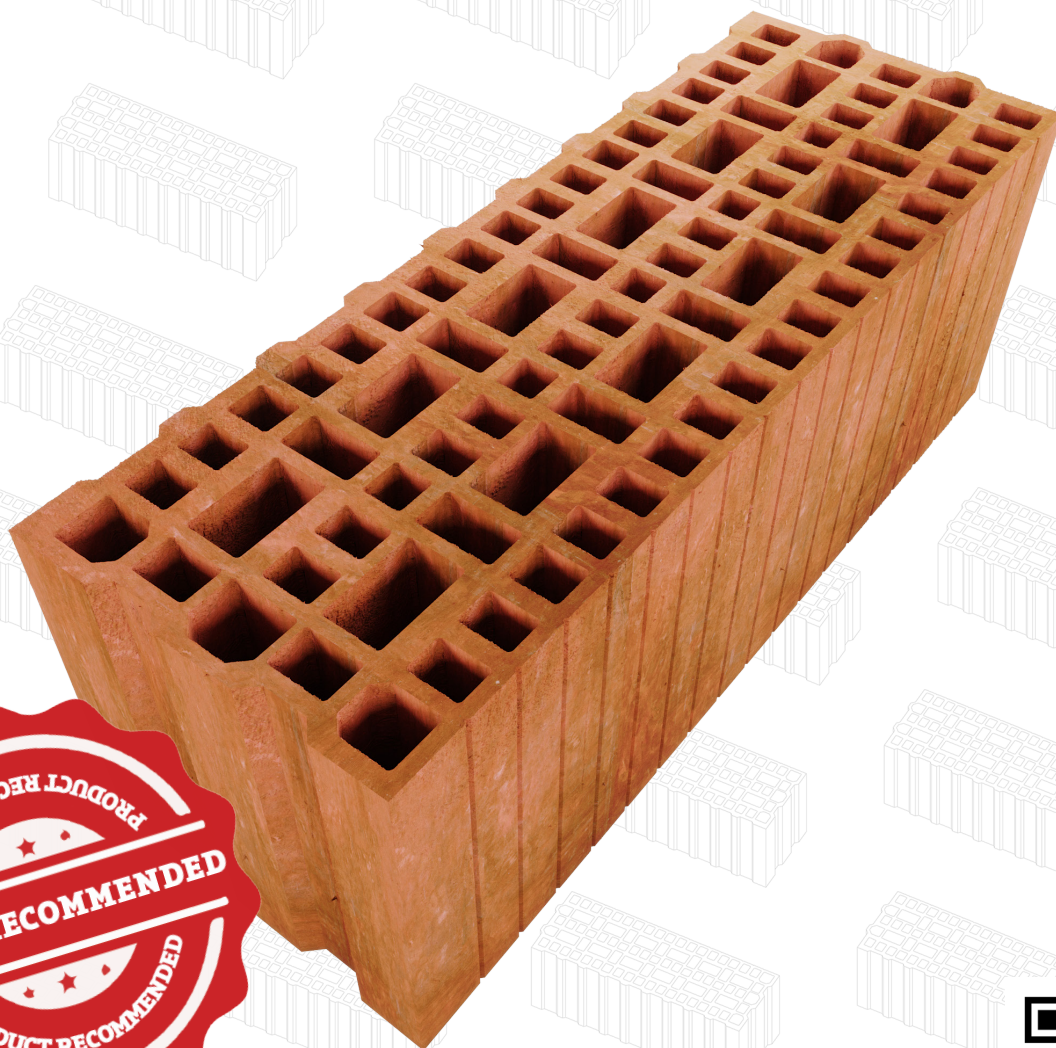
Other properties:

- Thermal insulation $\lambda = 0.2 \text{ W/mK}$
- U value: $0.55 \text{ W/m}^2\text{K}$
- Sound insulation = 48dB

NOTES:

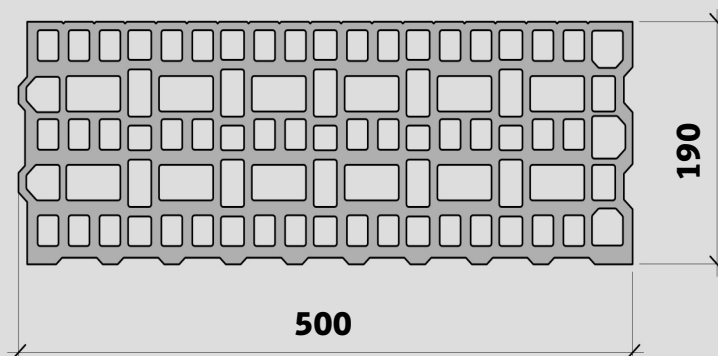
BRICK Z BLOCK

BRICK 19Z



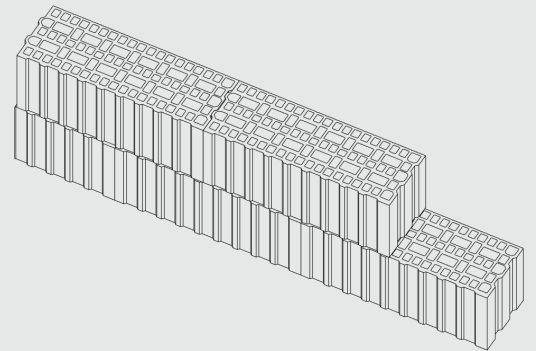
SPECIFICATIONS

- **Dimensions:** 500/190/190 mm
- **Mark:** M10(min 10N / mm²)
- **NF:** 11.6
- **Packaging:** 70 units/ palette
- **Mass:** 16.90 kg
- **Brick usage:** 8 units/ m²
- **Wall assembly time:** 0.52 h/m²
- **Mortar usage:** 10 l/m²



BRICK 19Z

Longitudinal stacking



For 19 cm thick walls

Big format of 19Z block is optimal for faster construction of large buildings with brick consumption of only 8 blocks/m², in addition to that mortar usage is reduced to only 10 l/m², thus saving time and money.

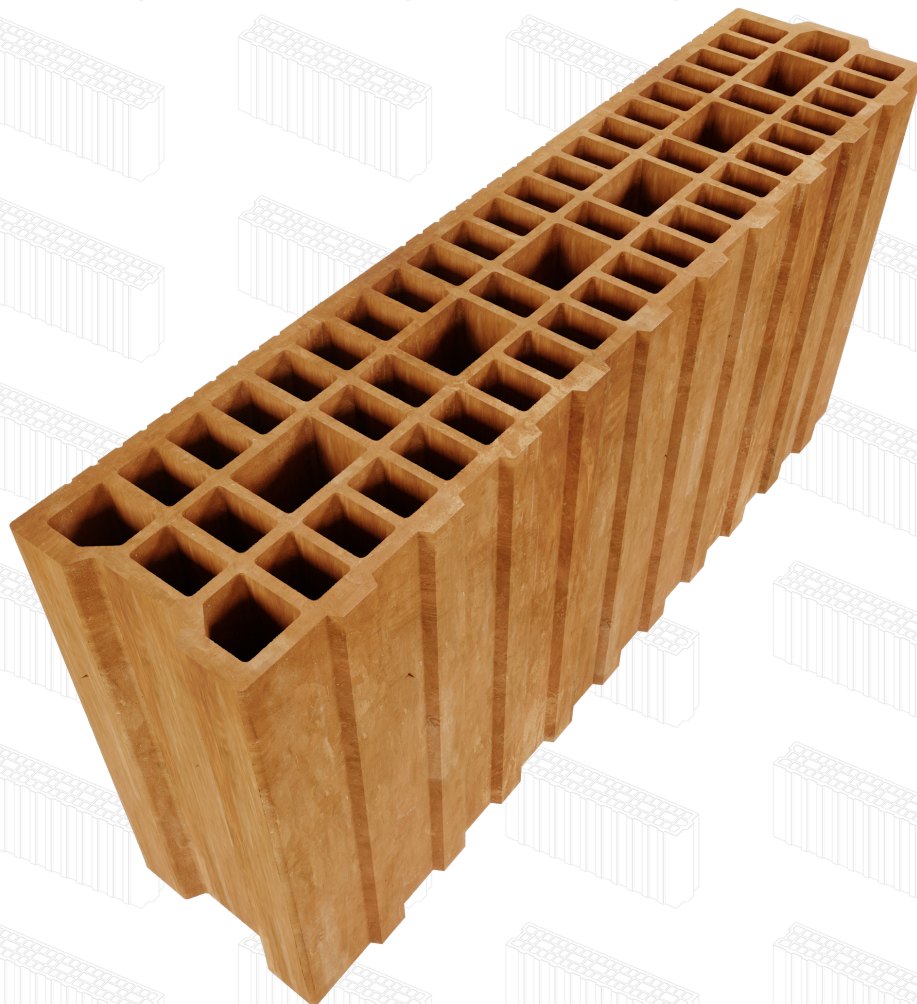
Other specifications:

- Thermal insulation $\lambda = 0.2 \text{ W/mK}$
- U value = $0.7 \text{ W/m}^2\text{K}$
- Sound insulation = 45 dB

NOTES:

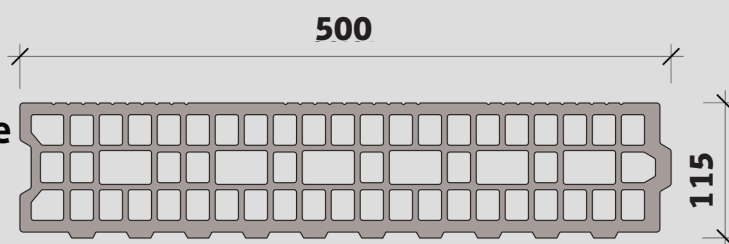
BRICK Z BLOCK

BRICK 12Z



SPECIFICATIONS

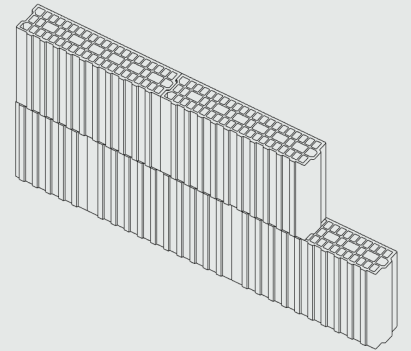
- **Dimensions:** 115/500/238 mm
- **Mark:** M10(min 10N / mm²)
- **NF:** 7.0
- **Packaging:** 100 units/ palette
- **Mass:** 10.9 kg
- **Brick usage:** 8 units/ m²
- **Wall assembly time:** 0.3 h/m²
- **Mortar usage:** 6.1 l/m²



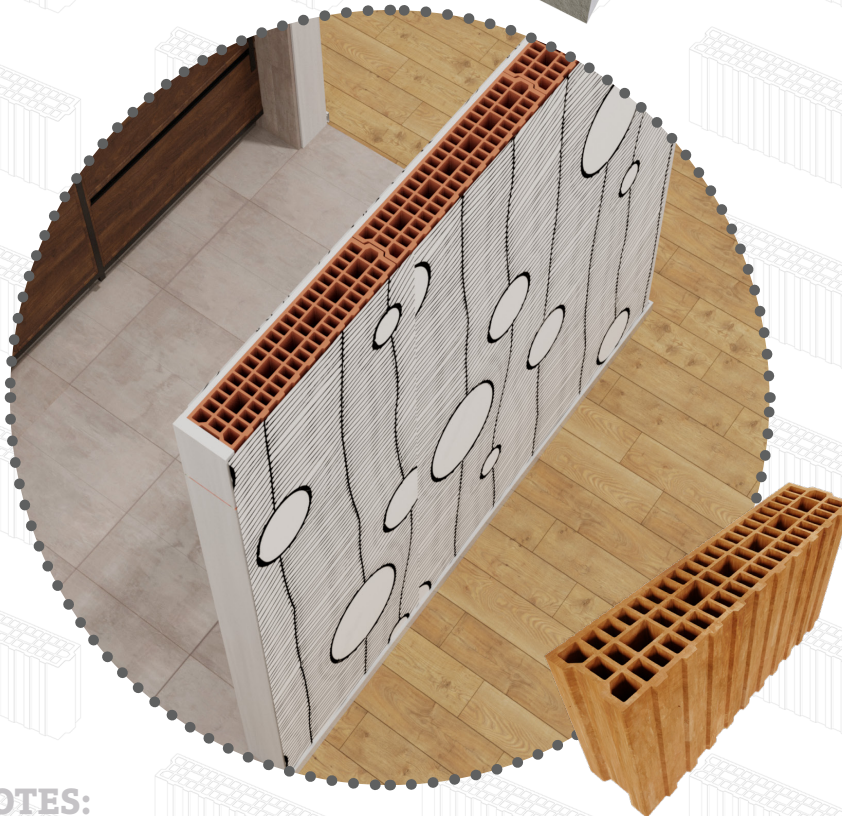
BRICK 12Z



Longitudinal stacking



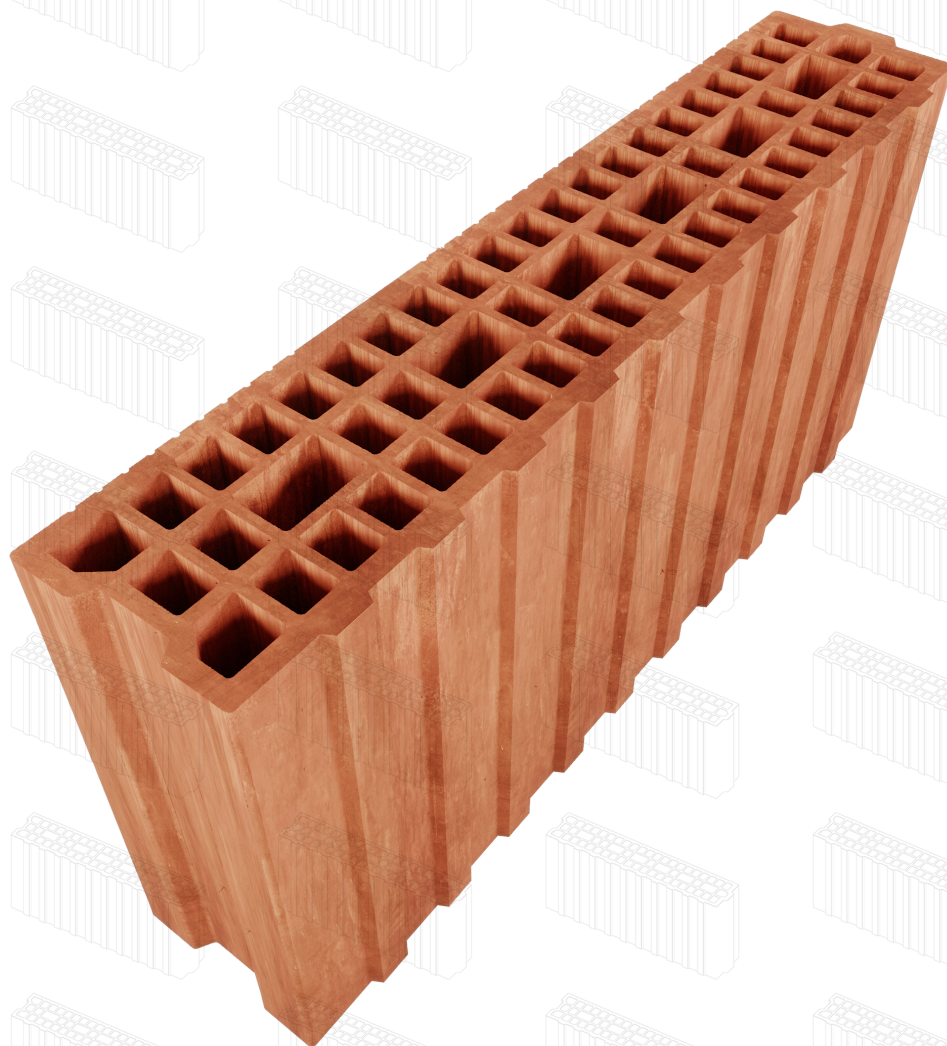
For 12 cm thick walls



NOTES:

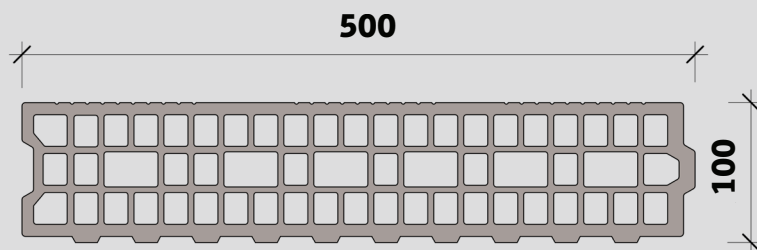
BRICK Z BLOCK

BRICK 10Z



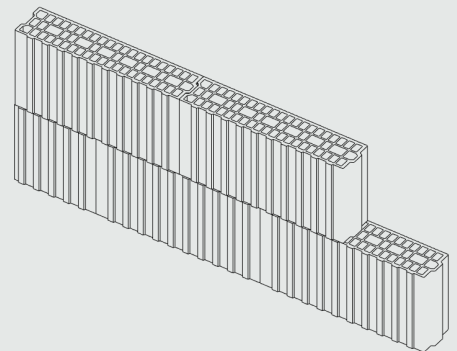
SPECIFICATIONS

- Dimensions: 100/500/238 mm
- Mark: M10(min 10N / mm²)
- NF: 6.1
- Packaging: 120 units/ palette
- Mass: 9.0 kg
- Brick usage: 8 units/ m²
- Wall assembly time: 0.28.25 h/m²
- Mortar usage: 5.3 l/m²



BRICK 10Z

Longitudinal stacking



For 10 cm thick walls

NOTES:

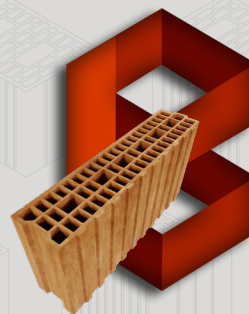
BRICK Z BLOCKS IN ACTION



BRICK 19Z

ADVANTAGES OF USING BRICK Z BLOCKS:

- **BUILDING MATERIAL SAVINGS:** less blocks required per m²; mortar usage reduced up to 50%; Flatness of surfaces and dimensional corectness result in reduced mortar use.
- **TIME SAVINGS:** Brick's honeycomb system ensures faster and simpler construction; saving worktime up to 50%.
- **ENERGY SAVINGS:** density, opening layout and brick's porous mass result in greater thermal resistance; building's heating cost reduced up to 50%.



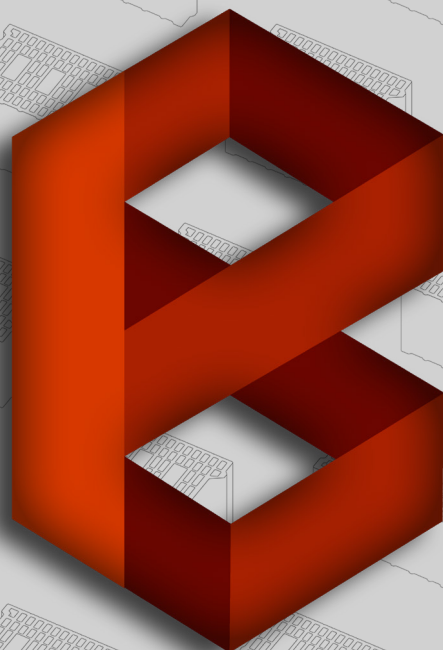
BRICK
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BRICK 10Z

BRICK 12Z



BRICK 25Z



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