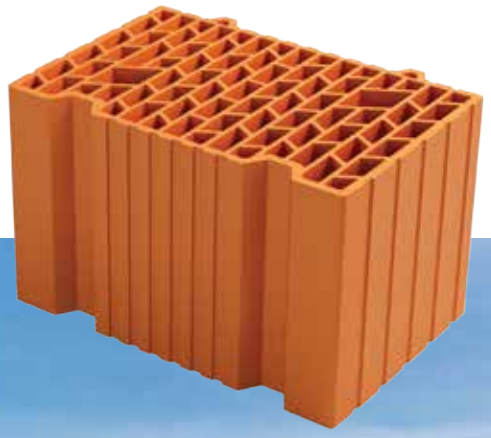
MLADOST BLOCKS

A complete construction system with elements that accelerate the masonry process.



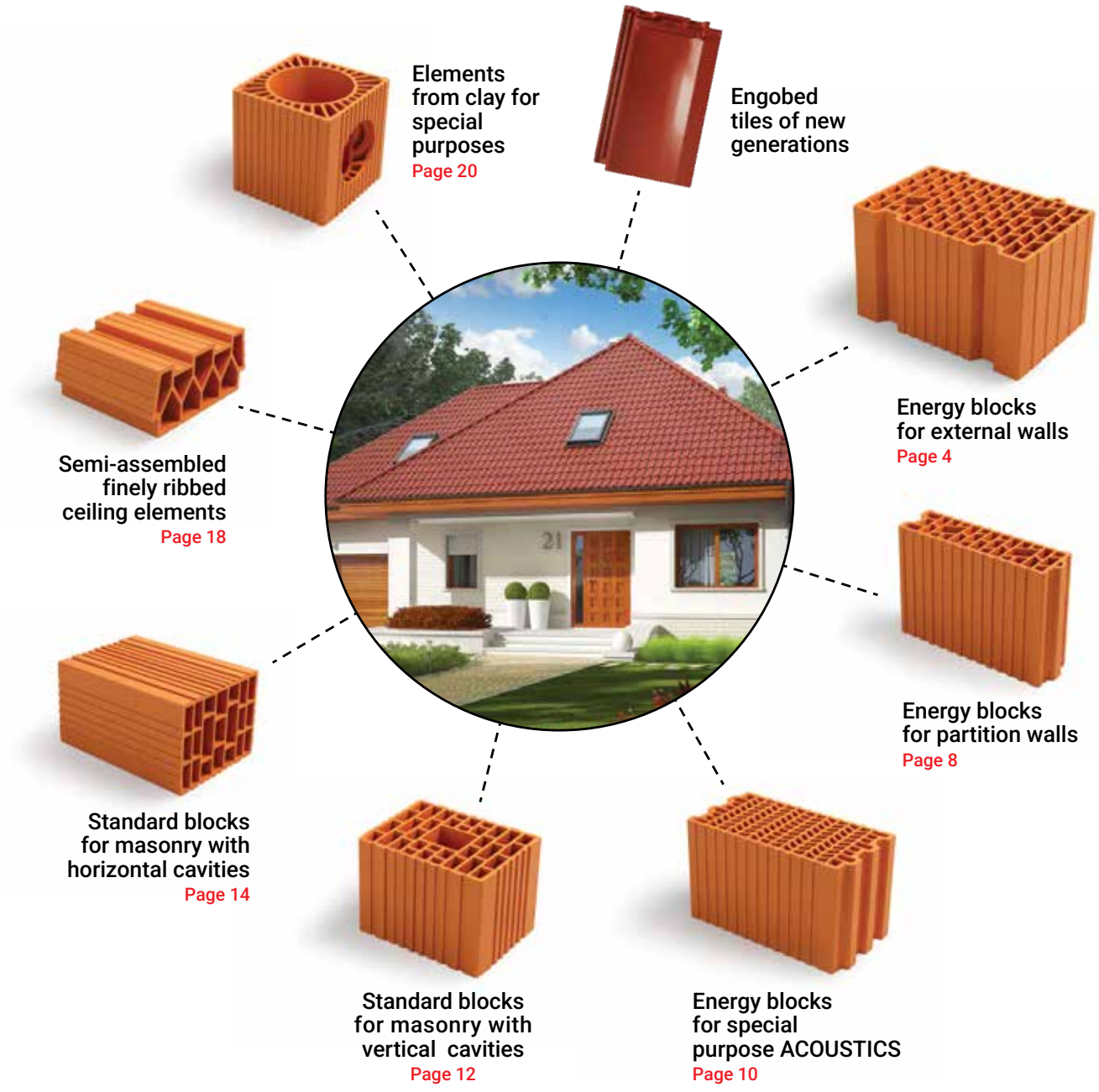
The value of the building is beneath the facade

mladost.co.rs/en

Mladost building system

Energy-efficient block for modern construction!

Using state-of-the-art technology and the expertise of leading specialists, Mladost energy clay blocks enable high energy efficiency for the buildings in which they are installed. They are a modern and eco-friendly solution, guaranteeing durability, long-lasting performance, a healthy indoor microclimate, and a safe home for future generations. Installed in energy-saving systems, they can reduce construction time by up to 35%.



Energy Efficiency

Honeycomb block structure - IDEAL THERMAL INSULATION.

Fast and reliable construction

Larger-format blocks with tongue-and-groove system accelerate construction while saving your time and costs.

Superior sound insulation

Superior sound insulation with the performance of an energy block.

High-quality clay

Brick clays from the south of Serbia are extremely rich in iron minerals.

Natural composition of the material

Made from natural materials that last for centuries.

Ideal microclimate

The natural material ensures optimal air humidity and thereby prevents the occurrence of moisture and condensation.

Energy blocks for external walls

MLADOST Energy block for modern construction!

Using the latest technology and the expertise of top specialists in the field, Mladost energy clay blocks enable outstanding energy efficiency for the buildings in which they are installed. They provide a modern and eco-friendly solution that guarantees durability and long-lasting performance, a healthy indoor microclimate, and a safe home for future generations. Installed within energy-saving systems, they can reduce construction time by up to 35%.

Energy Efficiency

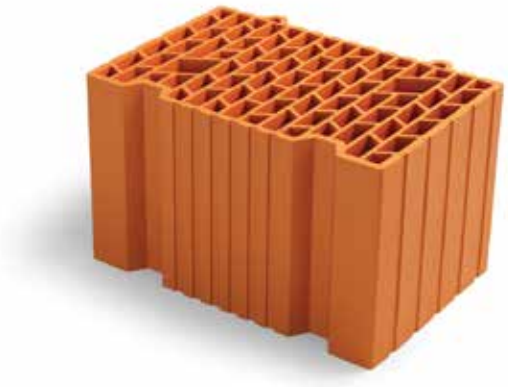
The block's honeycomb structure traps air, providing excellent wall thermal insulation and resulting in energy savings for heating and cooling.

Top quality clay

IGM Mladost owns one of the highest-quality clay deposits in the region, enabling it to produce, through modern manufacturing processes, some of the finest masonry blocks available.

Ideal microclimate

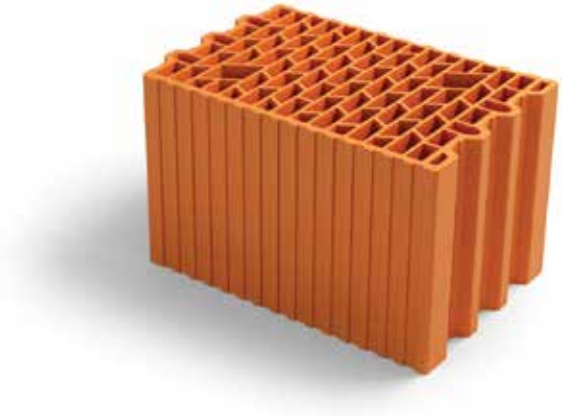
Made from natural materials - firing clay from southern Serbia, ensuring an excellent indoor microclimate in newly constructed buildings.



Energy block 38

In addition to superior thermal insulation properties, Energy block 38 is also larger in size compared to the dimensions of standard blocks and brings the advantage of faster and economical construction. The excellent mechanical properties of these blocks support the stability of massive constructions as well as all other masonry structures even in seismic areas.

Dimensions LxWxH (mm)	250x380x238
JNF	11,6
Weight (kg)	16,2
Consumption per m^2 / m^3 of wall	16/42
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	72
Pallet Weight (kg)	1.177



Energy block 25 Strong

Large-format block that reduces the number of blocks per m^2, lowers mortar consumption, and saves installation time. Its excellent thermal insulation properties help achieve maximum energy efficiency for the buildings in which it is used.

Dimensions LxWxH (mm)	380x250x238
JNF	11,6
Weight (kg)	15,5
Consumption per m^2 / m^3 of wall	10,5/42
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	72
Pallet Weight (kg)	1.126

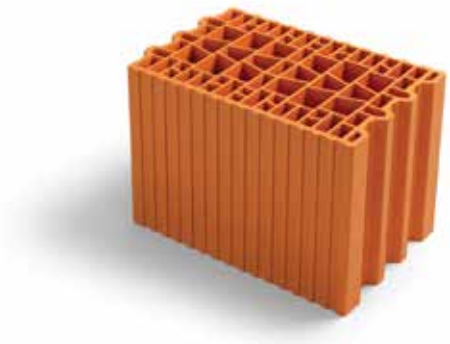
Energy Block 25 Economic +

Large-format block for fast, simple, and cost-effective construction. The modified honeycomb structure provides reinforcement for anchors and other load-bearing elements.

Dimensions LxWxH (mm)	375x250x238
JNF	11,6
Weight (kg)	13,3
Consumption per m^2 / m^3 of wall	10,5/42
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	72
Pallet Weight (kg)	968

Energy block 25 Economic

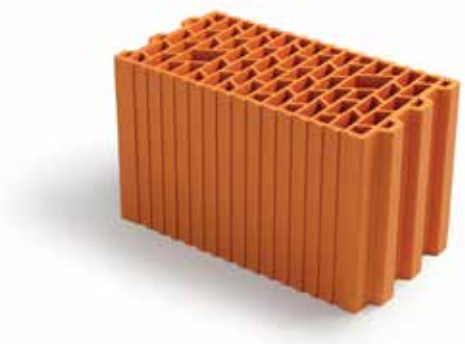
Large format block for fast, simple and economical construction. They are installed with horizontal joints with minimal use of binding material (mortar and glue).



Dimensions LxWxH (mm)	380x250x238
JNF	11,6
Weight (kg)	13,2
Consumption per m^2 / m^3 of wall	10,50/42
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	72
Pallet Weight (kg)	960

Energy block 20 Strong

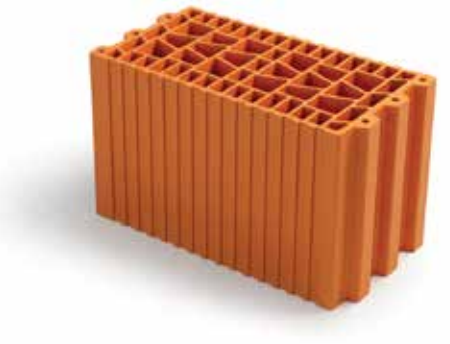
For exterior and interior walls (towards entrance halls). It allows heat accumulation during winter and ensures a comfortable indoor environment in summer. Its optimized dimensions provide the basis for maximizing usable building space.



Dimensions LxWxH (mm)	380x200x238
JNF	9,28
Weight (kg)	12,9
Consumption per m^2 / m^3 of wall	10,5/53
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	84
Pallet Weight (kg)	1.094

Energy block 20 Economic

A high-performance clay block with excellent thermal properties, made from natural materials. It is designed for energy-efficient building systems, enabling up to 35% faster construction time.



Dimensions LxWxH (mm)	380x200x238
JNF	11,6
Weight (kg)	12
Consumption per m^2 / m^3 of wall	10,50/53
Compressive Strength (N/mm^2)	12
Pieces per pallet	84
Pallet Weight (kg)	1.018

Energy block 20

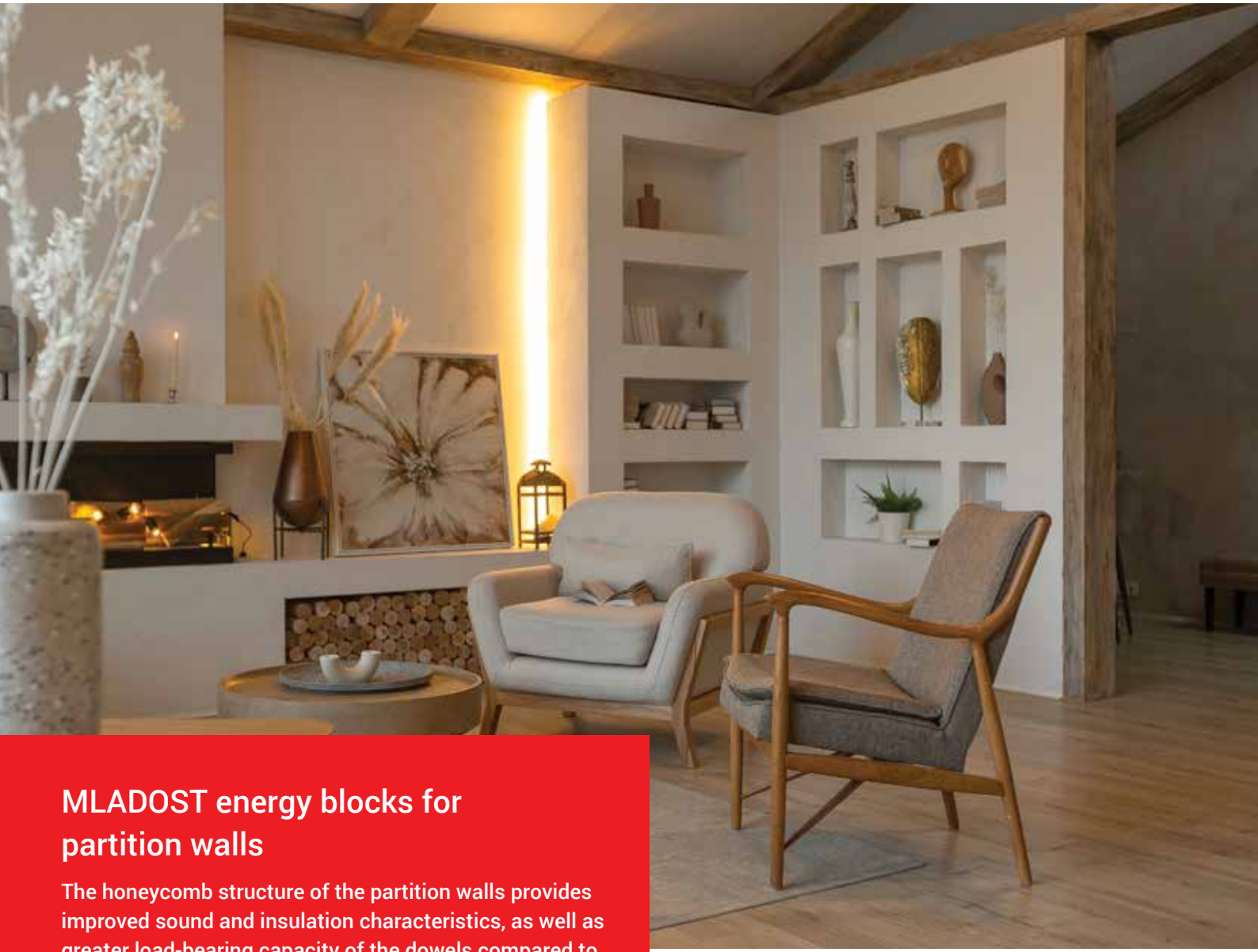
It is characterized by fast, efficient, and cost-effective construction within energy-saving systems for heating and cooling. Its optimized dimensions provide the basis for maximizing usable building space.

Dimensions LxWxH (mm)	330x200x238
JNF	8,26
Weight (kg)	11,3
Consumption per m^2 / m^3 of wall	12/61
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	90
Pallet Weight (kg)	1.027

Faster construction and energy savings

The tongue-and-groove system ensures fast and reliable construction while minimizing energy loss at block joints, preventing thermal bridging and enhancing overall thermal insulation.

Energy blocks for partition walls



MLADOST energy blocks for partition walls

The honeycomb structure of the partition walls provides improved sound and insulation characteristics, as well as greater load-bearing capacity of the dowels compared to standard blocks. For fast and efficient construction that saves you money.

Improved sound and insulation characteristics

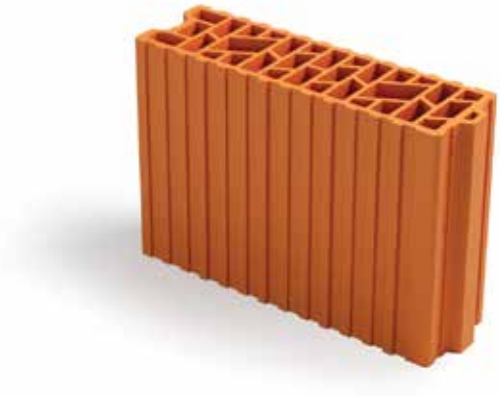
The honeycomb structure of partition walls provides enhanced acoustic and insulation properties, as well as higher anchor load capacity compared to standard blocks.

Superior raw material quality

They ensure an excellent indoor microclimate in newly constructed buildings, while horizontal connectors allow for minimal use of binding materials.

Larger format and precise finishing

It enables faster and more precise installation, which leads to savings in the binder material for masonry.



Energy block 10

The larger-format block is ideal for constructing interior partition walls where maximizing usable floor space is desired. It is installed with horizontal connectors, using minimal binding material.
Quick and easy installation saves both time and costs.

Dimensions LxWxH (mm)	330x100x238
JNF	4,03
Weight (kg)	6,3
Consumption per m^2 / m^3 of wall	12/121
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	168
Pallet Weight (kg)	1.068

Energy block 12

Their increased size allows for fast and cost-effective construction. The origin and superior quality of the raw materials used ensure an excellent indoor microclimate in newly constructed buildings.

Dimensions LxWxH (mm)	330x120x238
JNF	4,82
Weight (kg)	7,0
Consumption per m^2 / m^3 of wall	12/101
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	144
Pallet Weight (kg)	1.018

Energy block 16

Improved dimensional accuracy of the blocks during production allows horizontal joints to be executed using special thin-layer mortar or a 1mm adhesive layer.

Dimensions LxWxH (mm)	330x160x238
JNF	6,57
Weight (kg)	9,2
Consumption per m^2 / m^3 of wall	12/76
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	108
Pallet Weight (kg)	1.004

Energy blocks for special purpose ACOUSTIC

MLADOST energy blocks ACOUSTIC for special purpose

The special honeycomb structure technology of the energy block achieves exceptional acoustic performance of 56 dB.

Superior sound insulation

The special honeycomb structure technology of the energy block delivers exceptional acoustic performance of 56 dB.

Ideal microclimate

The superior quality of the clay ensures an ideal indoor micro-climate in newly constructed buildings.

Savings - Easy and quick installation

Improved dimensional accuracy of the blocks allows for savings in wall finishing.

Energy block 20 Acoustic

It provides excellent sound insulation of 55 dB under real conditions, without additional layers of mortar or facade. These blocks are used for both exterior and interior walls. Improved dimensional accuracy allows horizontal joints to be executed with thin-layer mortar of a few millimeters or a 1 mm adhesive layer, reducing thermal bridging by eliminating side joints and using the tongue-and-groove connection.

Dimensions LxWxH (mm)	380x200x238
JNF	9,28
Weight (kg)	15,9
Consumption per m^2 / m^3 of wall	10,5/53
Sound insulation Rw	55dB
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	72
Pallet Weight (kg)	1.155

Energy block 25 Acoustic

Superior clay block with a sound insulation rating of 56 dB. Acoustic performance was verified through experimental testing, confirming some of the best results in its class. Blocks designed for special applications provide excellent sound insulation of 56 dB under real conditions, without additional layers of mortar or facade. They are suitable for both exterior and interior walls. By reducing thermal bridging through the elimination of side mortar joints and the use of tongue-and-groove connections, the blocks achieve excellent acoustic performance as well as improved thermal properties.

Dimensions LxWxH (mm)	380x250x238
JNF	11,6
Weight (kg)	23,6
Consumption per m^2 / m^3 of wall	10,5/42
Sound insulation Rw	56dB
Compressive Strength (N/mm^2)	≥ 10
Pieces per pallet	48
Pallet Weight (kg)	1.143

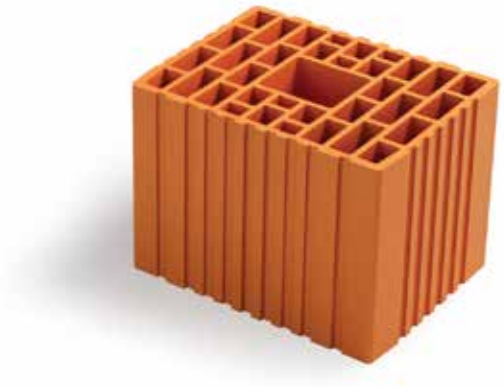
Standard masonry blocks with vertical cavities

MLADOST Standard Blocks with Vertical Cavities

Hollow blocks with vertical cavities are used for load-bearing walls in advanced construction systems, skeletal structures, and prefabricated elements. They represent traditional clay products that continue to be used in modern construction trends.

Giter 5

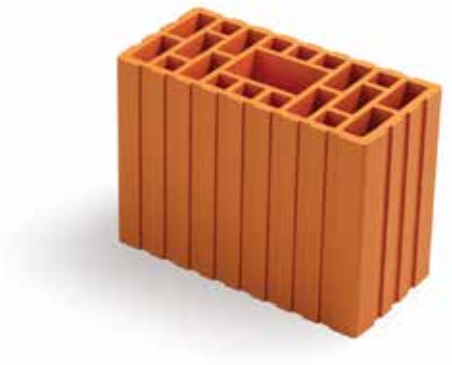
Clay blocks designed for traditional, classic construction. With enhanced aesthetic and technical performance, they support the stability of solid structures while ensuring a healthy indoor microclimate.



Dimensions LxWxH (mm)	250x190x190
JNF	4,6
Weight (kg)	6,3
Compressive Strength (N/mm²)	≥ 10
Consumption per 1m² of wall, thickness 25cm/19cm	25/19
Pieces per 1m³ of wall	110
Pieces per pallet	160
Pallet Weight (kg)	1.018

Partition 12 (Giter 3)

Hollow blocks with vertical cavities for partition walls, designed to reduce weight and, consequently, the overall weight of the building. Supports sustainable construction systems.



Dimensions LxWxH (mm)	250x120x190
JNF	3
Weight (kg)	4,3
Compressive Strength (N/mm²)	≥ 10
Consumption per 1m² of wall, thickness 12cm	19
Pieces per 1m³ of wall	175
Pieces per pallet	256
Pallet Weight (kg)	1.110

Giter 1 Smooth

As smaller-sized masonry elements, these blocks are used for efficient construction of lightweight walls. Thanks to their excellent mechanical strength, they provide high wall stability.

Dimensions LxWxH (mm)	250x120x60
JNF	0,9
Weight (kg)	1,8
Compressive Strength (N/mm²)	≥ 10
Consumption per 1m² of wall	54
Pieces per 1m³ of wall	556
Pieces per pallet	600
Pallet Weight (kg)	1.090

Giter 1 Textured

Not intended as a facade element, but features a textured surface to enhance aesthetic performance. It offers excellent technical characteristics and integrates seamlessly into sustainable construction systems with other masonry elements.

Dimensions LxWxH (mm)	250x120x60
JNF	0,9
Weight (kg)	1,8
Compressive Strength (N/mm²)	≥ 10
Consumption per 1m² of wall	54
Pieces per 1m³ of wall	556
Pieces per pallet	600
Pallet Weight (kg)	1.090

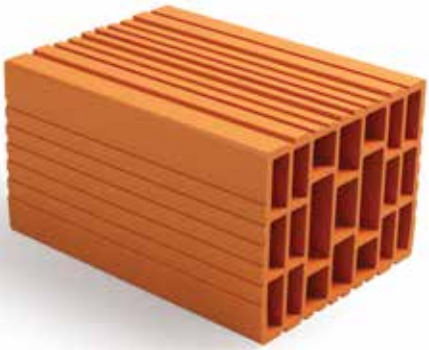
Standard building blocks with horizontal cavities

MLADOST Standard Blocks with Horizontal Cavities

Hollow blocks represent traditional clay products that continue to be used in modern construction trends.

Termoblock 33

The Mladost hollow Termoblock 33 with horizontal cavities is used for non-load-bearing walls. Its dimensions and the quality of the raw materials meet modern sustainable construction requirements. Its reduced weight also contributes to lowering the overall weight of the building.



Dimensions LxWxH (mm)	330x250x190
JNF	8,25
Weight (kg)	10,0
Compressive Strength (N/mm²)	3,5
Consumption per 1m² of wall, thickness 25cm/19cm	15/11
Pieces per 1m³ of wall	59
Pieces per pallet	100
Pallet Weight (kg)	1.010

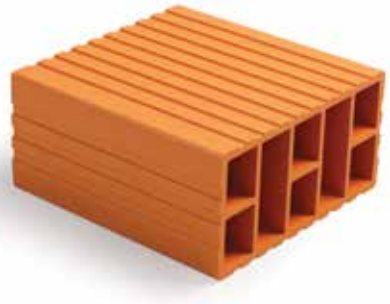
Termoblock 16.5

The Mladost Termoblock 16.5 hollow block with horizontal cavities is used for non-load-bearing walls. It allows for fast and easy installation while maximizing usable building space. Its reduced weight also lowers the overall weight of the building.

Dimensions LxWxH (mm)	165x250x190
JNF	4
Weight (kg)	5
Compressive Strength (N/mm²)	3
Consumption per 1m² of wall, thickness 25cm/19cm	29/22
Pieces per 1m³ of wall	117
Pieces per pallet	200
Pallet Weight (kg)	1.010

Block 4/8

The Mladost hollow Block 4/8 with horizontal cavities is used for non-load-bearing walls. It allows for quick and easy installation and is designed for lightweight wall construction, maximizing the usable space of the building.

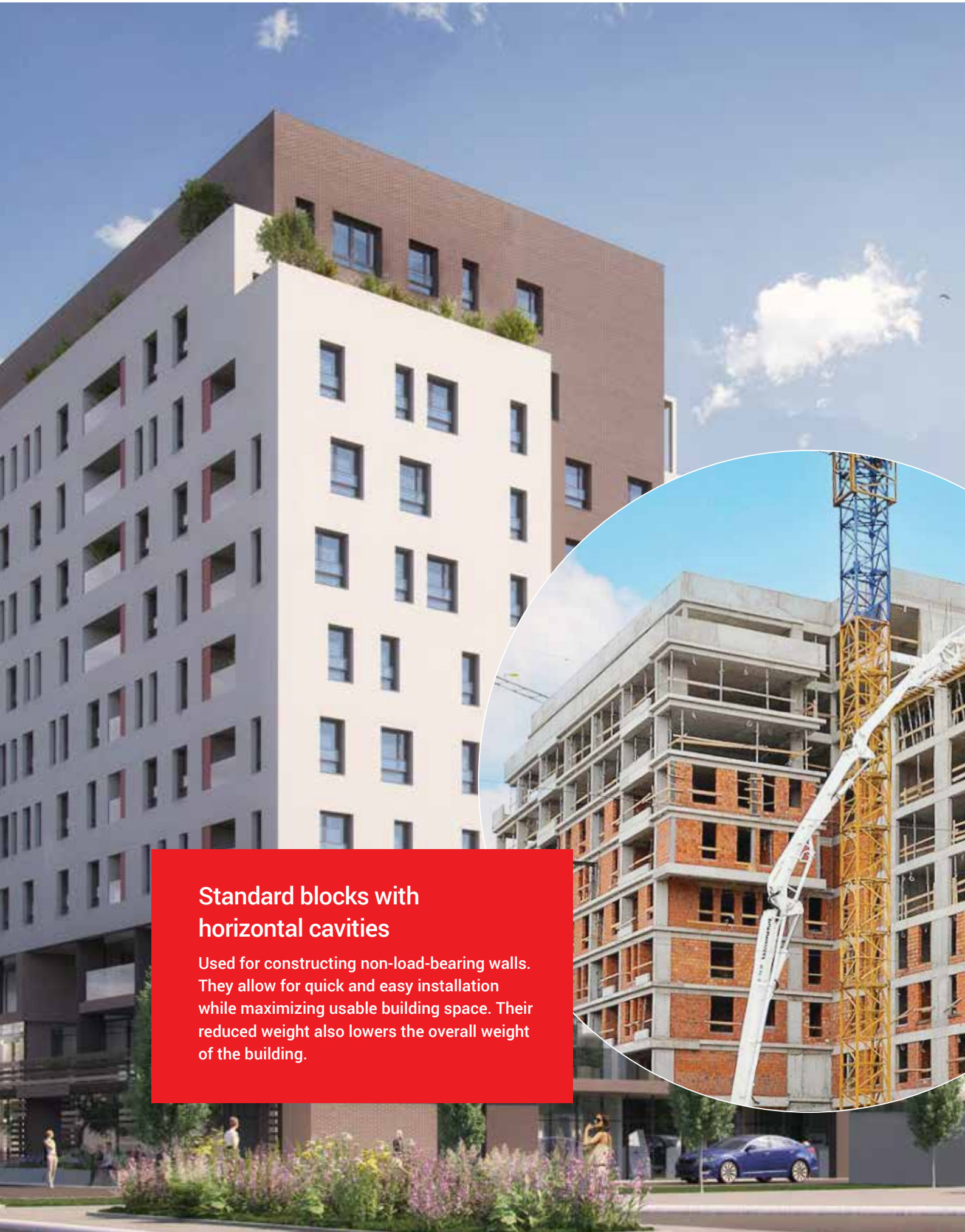


Dimensions LxWxH (mm)	250x250x120
JNF	3,9
Weight (kg)	4,2
Consumption per 1m² of wall, thickness 25cm/12cm	29/14
Pieces per 1m³ of wall	116
Pieces per pallet	224
Pallet Weight (kg)	951

Block 4/15

The Mladost hollow Block 4/15 with horizontal cavities is used for constructing non-load-bearing walls. It is installed in accordance with advanced construction systems (enhanced solid construction, skeletal structures, prefabricated elements).

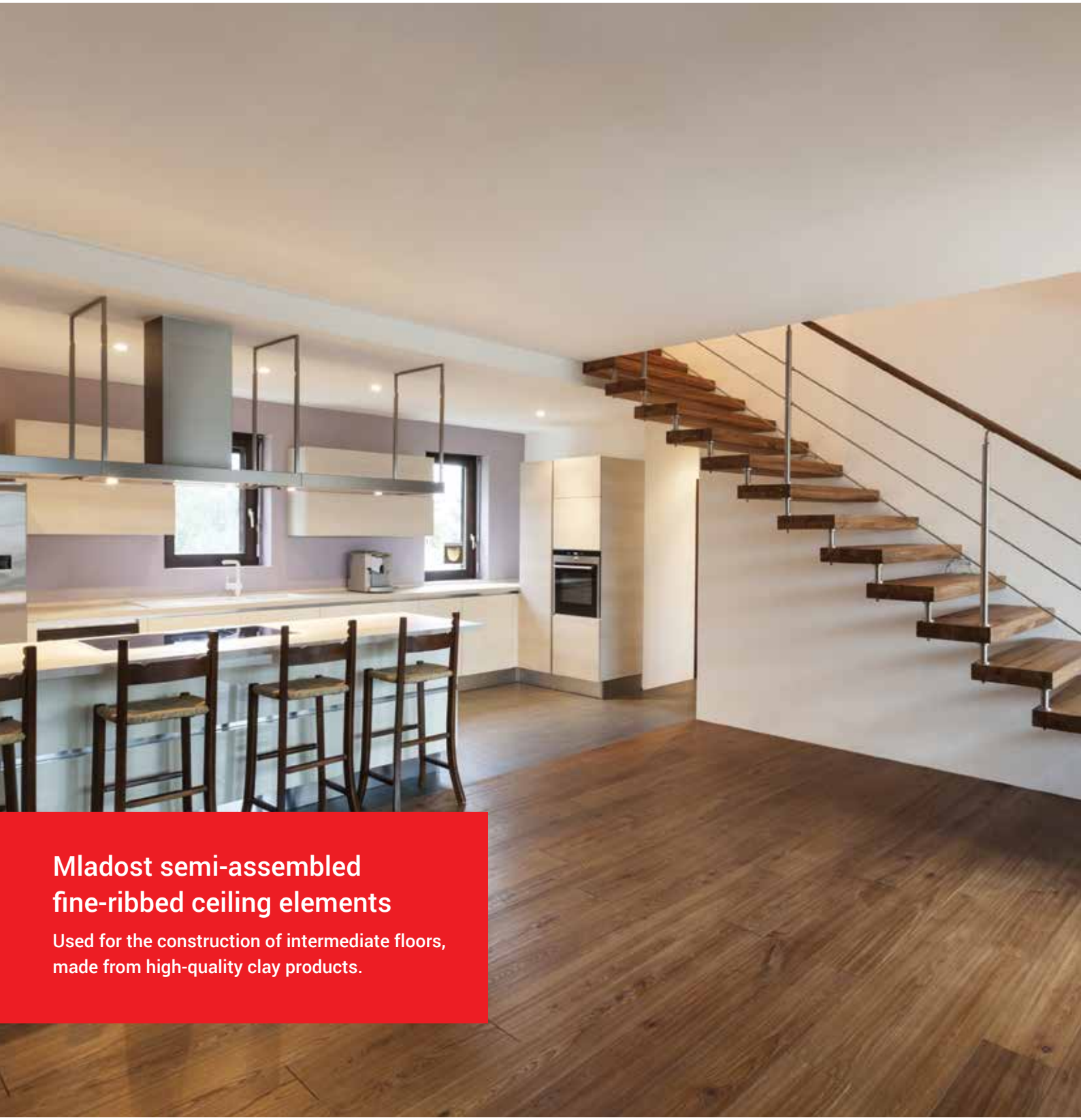
Dimensions LxWxH (mm)	250x250x120
JNF	3,9
Weight (kg)	4,5
Consumption per 1m² of wall, thickness 25cm/12cm	29/14
Pieces per 1m³ of wall	116
Pieces per pallet	224
Pallet Weight (kg)	1.018



Standard blocks with horizontal cavities

Used for constructing non-load-bearing walls. They allow for quick and easy installation while maximizing usable building space. Their reduced weight also lowers the overall weight of the building.

Semi-assembled fine-ribbed ceiling elements



Mladost semi-assembled fine-ribbed ceiling elements

Used for the construction of intermediate floors, made from high-quality clay products.

Fert 14

Mladost Fert 14 is a semi-assembled fine-ribbed ceiling element used for constructing high-quality intermediate floors. Made from raw materials that preserve its mechanical properties, it ensures building stability and meets the highest standards of the European Committee for Standardization (CEN).

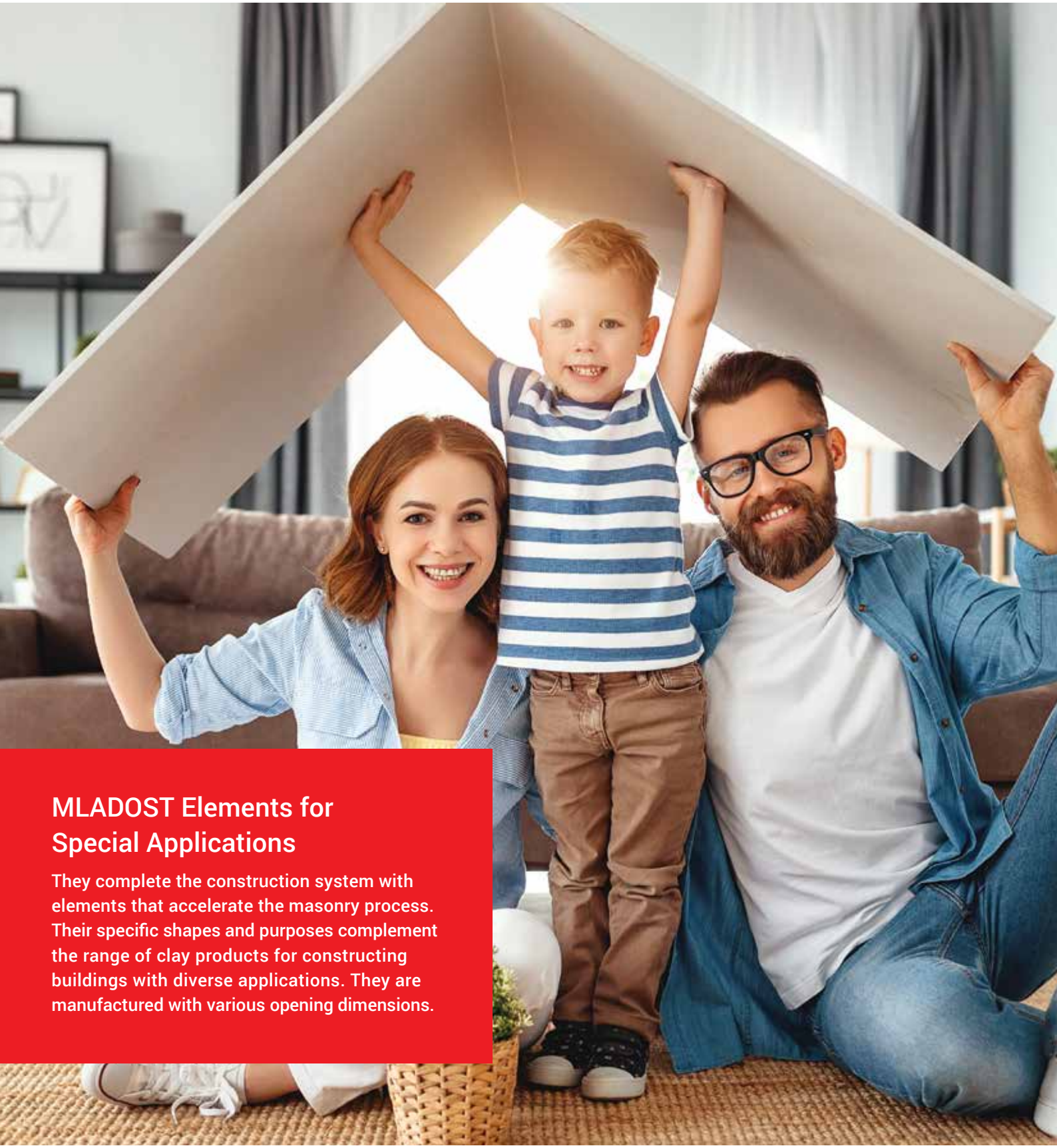
Dimensions LxWxH (mm)	245x317x140
Weight (kg)	6,2
Load Capacity (kN)	4,02
Pieces per m² of ceiling	10
Pieces per pallet	147
Pallet Weight (kg)	922

Channel block

The Mladost Channel is a semi-assembled fine-ribbed ceiling element designed to ensure building stability. Its dimensions and fit allow for quick and easy installation.

Dimensions LxWxH (mm)	245x115x40
Weight (kg)	1,1
Load Capacity (kN)	3,15
Pieces per m/m² of ceiling	4/10
Pieces per pallet	960
Pallet Weight (kg)	1.064

Clay elements for special purposes



MLADOST Elements for Special Applications

They complete the construction system with elements that accelerate the masonry process. Their specific shapes and purposes complement the range of clay products for constructing buildings with diverse applications. They are manufactured with various opening dimensions.

Ventilation Block 25ø18

Allows easy installation of ventilation pipes while maintaining excellent indoor microclimate conditions in newly constructed buildings. Made from raw materials with good porosity, its reduced weight facilitates the ventilation system. Available with various opening dimensions.

Dimensions LxWxH (mm)	245x250x250
JNF	8
Weight (kg)	9,7
Consumption per 1m length	4
Pieces per pallet	96
Pallet Weight (kg)	941

Ventilation Block 33ø18

Allows easy installation of ventilation pipes while ensuring excellent indoor microclimate conditions in newly constructed buildings.

Dimensions LxWxH (mm)	245x250x330
JNF	10,3
Weight (kg)	13,2
Compressive Strength (N/mm2)	≥ 10
Consumption per 1m length	3,03
Pieces per pallet	80
Pallet Weight (kg)	1.061

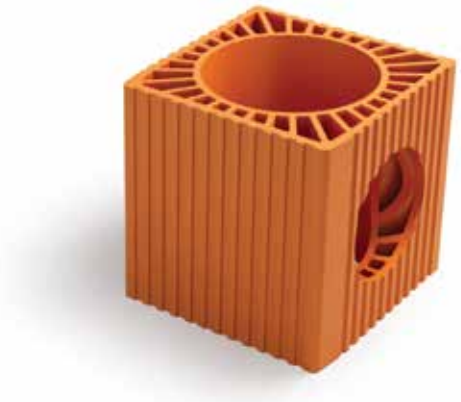
Ventilation Block 25ø18/13

Ensures space ventilation while maintaining excellent indoor microclimate conditions in newly constructed buildings.

Dimensions LxWxH (mm)	245x250x250
JNF	8
Weight (kg)	9,9
Consumption per 1m length	4
Pieces per pallet	32
Pallet Weight (kg)	327

Ventilation Block 25ø18/15

Provides space ventilation while maintaining excellent indoor microclimate conditions in newly constructed buildings.



Dimensions LxWxH (mm)	245x250x250
JNF	8
Weight (kg)	9,8
Consumption per 1m length	4
Pieces per pallet	32
Pallet Weight (kg)	324

Ventilation Block ø16

Provides space ventilation while maintaining excellent indoor microclimate conditions in newly constructed buildings.

Dimensions LxWxH (mm)	250x190x190
JNF	4,6
Weight (kg)	5,3
Compressive Strength (N/mm2)	≥ 10
Consumption per 1m length	5
Pieces per pallet	160
Pallet Weight (kg)	858

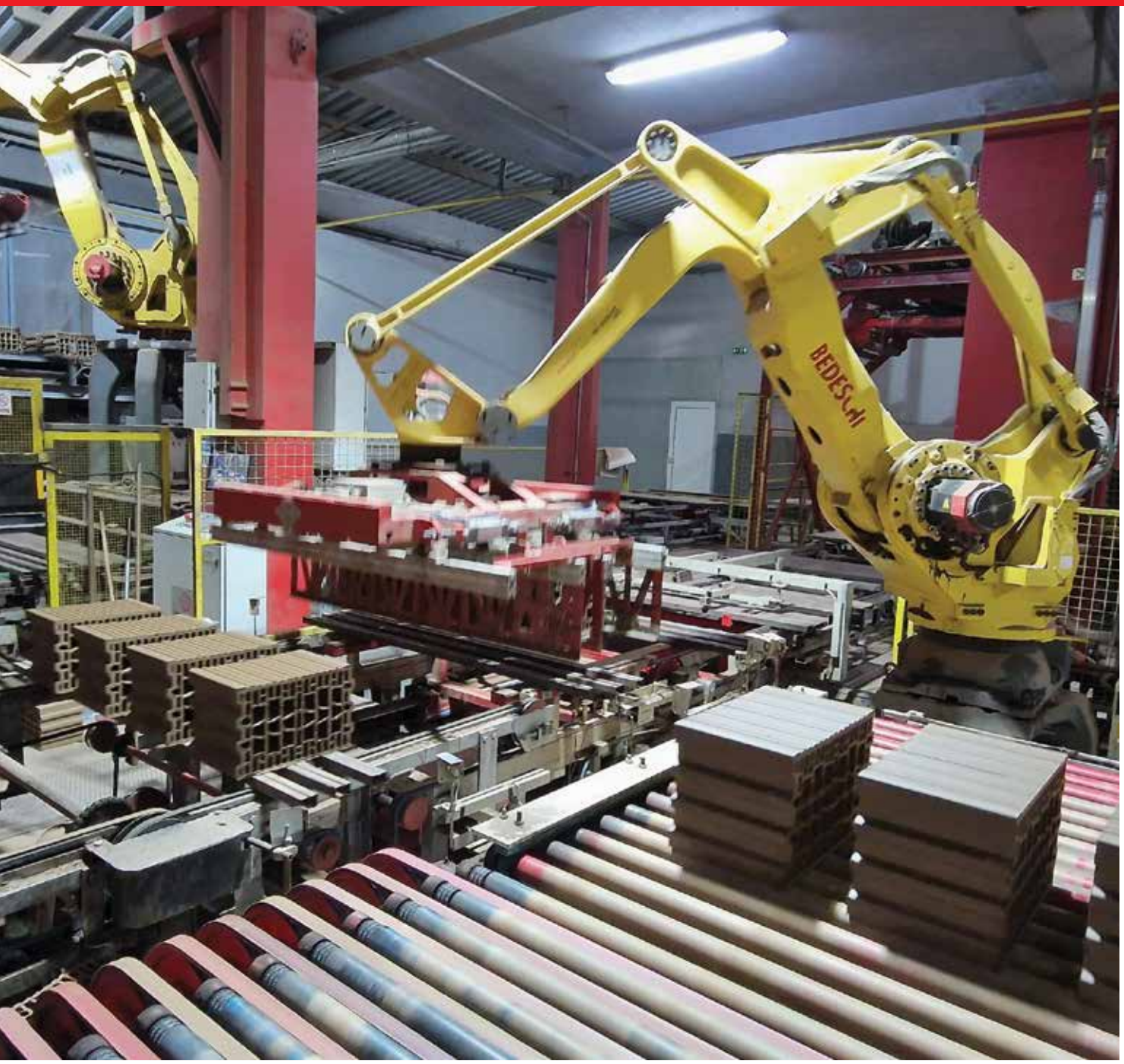
Larger format and precise finishing

The larger block and masonry element format allows faster and more precise installation, resulting in savings on binding materials.

Modern production

MLADOST operates five production plants: two in Leskovac, and one each in Stalać, Mala Plana, and Vlasotince. Significant investments in all factories have introduced state-of-the-art equipment and technology, which, combined with high-quality raw materials and skilled workforce, enable production that meets the strictest requirements for quality, economical, and efficient construction.

- 115 Years of Tradition
- Number 1 in the Region for Clay Product Production
- Over 650 Employees
- 5 Production Plants



Advantages

Energy Savings

The block's honeycomb structure traps air, providing excellent wall thermal insulation and, consequently, reducing energy consumption for heating and cooling.

Faster Construction

The tongue-and-groove system enables faster and more reliable construction while reducing energy loss at block joints, preventing thermal bridging and enhancing overall thermal insulation.

Ideal Indoor Microclimate

Made from natural materials - firing clay from southern Serbia, ensuring an excellent indoor microclimate in newly constructed buildings.

IGM MLADOST leader in the region

Modern production

IGM MLADOST Building Materials Industry is one of the largest and most prominent building materials manufacturers in the Balkans and Southeast Europe, with a tradition spanning over 115 years.

Objedinjuje pet fabrika u centralnoj i južnoj Srbiji u jedno prepoznatljivo ime znano, pre svega, po kvalitetu svojih proizvoda.

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5 Production Plants

For buildings across the Southeast Europe region

Production at multiple locations ensures there are no bottlenecks in delivering products to our customers. Our network of distributors is extensive, with over 1,500 outlets offering Mladost roof tiles and blocks for modern construction.

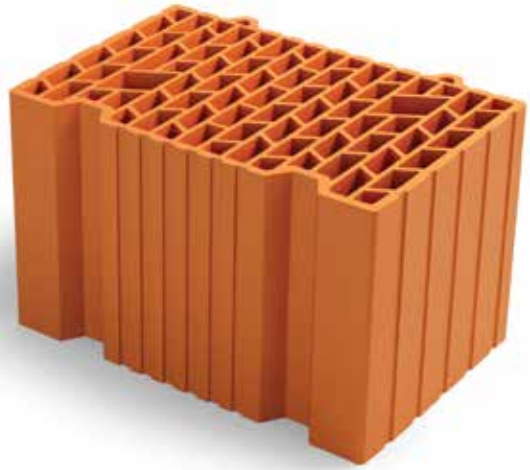
With the establishment of our first ceramic products factory in 1911, the foundations were laid for modern clay building material production.

Stalać

Toplička Mala Plana

Vlasotince

Leskovac



1911

MLADOST®

Mart 2026.

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The value of the building is beneath the facade