

CZAMANINEK

MOC W JAKOŚCI



EXPANDED CLAY

HIGH-QUALITY EXPANDED CLAY AGGREGATE
DESIGNED FOR THE PRODUCTION
OF PREFABRICATED ELEMENTS

www.czamaninek.pl



**OPEN YOURSELF TO LIGHTNESS
OPEN YOURSELF TO EXPANDED CLAY.**

A beautiful view, fresh air, a sense of space — that's exactly how expanded clay works.

This natural material combines durability and lightness, providing comfort, insulation, and safety.

Expanded clay — a lightweight aggregate that gives heavyweight arguments for quality.

Czamaninek — distributor of expanded clay from Belgium — Argex.



WHAT IS EXPANDED CLAY?



Small granules, great power of nature.

Expanded clay is a lightweight ceramic aggregate made from natural clay, which is fired in special rotary kilns at a temperature of about 1200°C.

During this process, the clay expands and transforms into pellets with a porous internal structure and a hard, ceramic outer shell.

BECAUSE LIGHTNESS IS STRENGTH

Expanded clay is a material that streamlines construction, protects the environment, and increases the durability of structures.

- Light, yet strong.
- Durable, yet easy to work with.
- Ecological, yet technologically advanced.

Thanks to its microstructure and thermal stability, expanded clay is indispensable wherever quality, efficiency, and sustainability matter.



ONE MATERIAL — HUNDREDS OF APPLICATIONS

Residential construction

Expanded clay is perfect for building walls, floors, and drainage systems.

Thanks to its thermal and sound-absorbing properties, it provides comfort and energy savings.

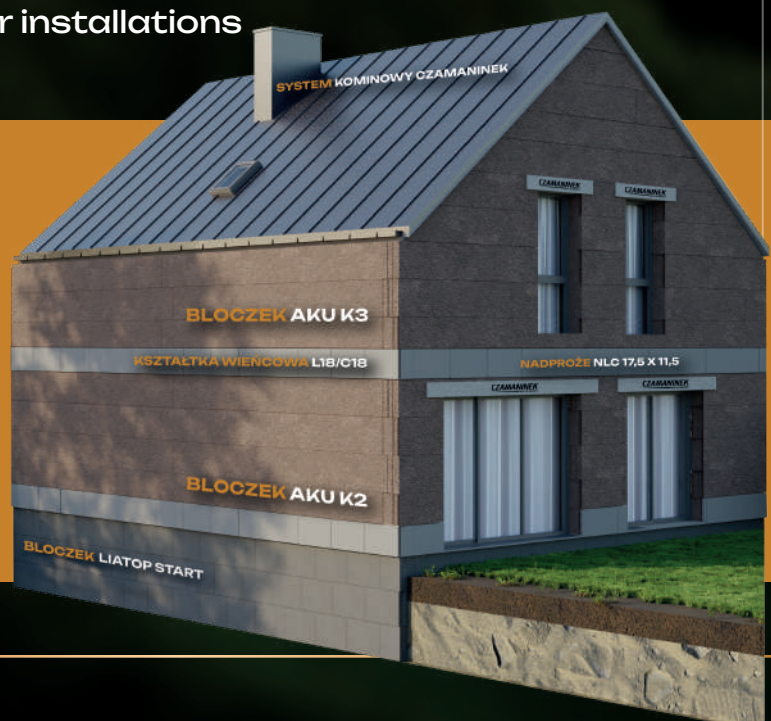


Applications:

- Walls and floors made of expanded clay concrete
- Insulation layers for floors and roofs
- Light backfills and fillings for installations

Expanded clay is at the heart of modern residential construction.

Light, durable, and natural — perfect for building energy-efficient homes.



Prefabrication with Expanded Clay Aggregate – A New Standard in Construction

Expanded clay aggregate is an ideal material for producing prefabricated elements thanks to its high particle density and exceptional crush resistance.

This allows for the creation of components that are lightweight yet remarkably durable and dimensionally stable during transport and crane installation.

Na zdjęciu widoczny jest prefabrykowany moduł ściany z otworem drzwiowym, osadzany na konstrukcji budynku. To przykład elementu wykonanego z betonu lekkiego na keramzycie, przeznaczonego do szybkiego montażu modułowego.



Thanks to its higher density and crush resistance, it is possible to achieve a smooth surface on prefabricated elements.

The result? The surface is even, uniform, and ready for thin-layer finishing or painting, without the need for additional leveling overlays.



Benefits in prefabrication:

- smooth and aesthetically pleasing module surfaces
- high resistance to installation-related damage
- lower element weight = faster and more cost-effective transport
- excellent thermal and acoustic insulation

Applications:

- prefabricated walls and floors
- modular buildings and houses made of ready-to-use panels
- structural and façade elements



Expanded clay aggregate makes it possible to produce prefabricated elements that are lighter, more durable, and more precise — ideal for modern construction.

WE DON'T JUST SELL.

COOPERATION MEANS MORE THAN SIZE

We help develop formulas, advise on projects, and collaborate with precast manufacturers and construction companies.

Our experience means partnership at every stage of production — from selecting fractions to the finished product.



Precision in every granule.

Argex AM 4/8 -700

Fraction 4/8

Loose bulk density – 760 kg/m³

Crushing strength min. 13.00 /
max 21.00 N/mm²

Fire reaction class A1

Argex AG 4/8 -370

Fraction 4/8

Loose bulk density – 370 kg/m³

Crushing strength min. 0.88 /
max 2.30 N/mm²

Fire reaction class A1

Argex AR 4/10 -430

Fraction 4/10

Loose bulk density – 450 kg/m³

Crushing strength min. 1.20 /
max 5.00 N/mm²

Fire reaction class A1

Argex AR 8/16 - 340

Fraction 8/16

Loose bulk density – 360
kg/m³

Crushing strength min. 0.8 /
max 2.27 N/mm²

Fire reaction class A1

EXPANDED CLAY IN THE GARDEN, PEACE IN THE SOUL.

Perfect for pot drainage, soil aeration, flower bed decoration, and green roofs.

Natural, clean, and aesthetic — expanded clay supports plants the way nature intended.



Czamaninek's offer

Our company offers a full range of expanded clay products tailored to the needs of construction, horticulture, and civil engineering. Each of them is made from high-quality raw material and under strict production control — guaranteeing durability, safety, and environmental friendliness.



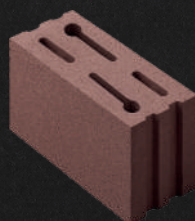
Loose expanded clay

We offer direct sales to manufacturers who use expanded clay aggregate as a raw material in their technological processes. Perfect for large-scale applications — in construction, insulation, and ground drainage.



Bagged expanded clay

Expanded clay in bags is a convenient, economical, and easy-to-transport solution for various construction, gardening, and land-reclamation tasks. It provides excellent insulation, supports ground drainage, and improves soil structure. Packed in practical bags, it allows for precise material dosing and efficient work execution — ideal for both companies and individual users.



Expanded clay blocks

Expanded clay blocks are a durable, lightweight, and eco-friendly construction material that combines excellent thermal insulation, moisture resistance, and exceptional strength. They are ideal for building load-bearing and partition walls, and their low weight allows for quick and efficient installation. Thanks to the natural properties of expanded clay, buildings made from these blocks are warm, healthy, and more energy-efficient.



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EXPANDED CLAY — DURABLE, NATURAL, AND RELIABLE.

LOGISTICS — FROM THE SEA TO YOUR CONSTRUCTION SITE

- **Expanded clay travels a long way before it reaches your project.**

Thanks to a proven delivery system from Belgium — **directly from the producer, Argex** — each batch of material arrives to us by sea, and then goes straight to customers across Poland.



1 FROM BELGIUM TO THE SEA

Argex expanded clay is loaded at a Belgian port into sealed cargo holds of freight ships. Sea transport ensures low emissions and the safety of the material.

2 UNLOADING IN POLAND

After arriving at the port, the material is delivered to the Czamaninek logistics center. There, it undergoes quality control and is prepared for further distribution — either loose or bagged.

3 TRANSPORT TO THE CUSTOMER

We deliver expanded clay directly to the construction site:

- by tipper trucks (loose),
- on pallets (bagged),
- or in a “just in time” system, tailored to the project schedule.



FROM THE PORT TO THE CONSTRUCTION SITE

— WITHOUT UNNECESSARY DOWNTIME



CZAMANINEK
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EXPANDED CLAY

BUILDING MATERIALS MANUFACTURER

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