

# BRAMSTONE

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FASTER, EASIER, CHEAPER

the **revolutionary**  
way of building



# Holding patents in 107 countries

## Bramstone conquers the construction sector worldwide !



Everybody knows that traditional bricks are not dimensionally stable. (clay can shrink up to 10%) and building with traditional bricks requires a lot of preparation and qualified & experienced masons. Bramstone developed a revolutionary way to obtain better results at a significant lower cost and higher speed !

### What is Bramstone?

It is a building brick made of pumice. It is 60 cm long and weighs about 16 kg. The stones are modular so there is no need for mortar. The building of a wall becomes child's play thanks to the fact that the Bramstone bricks are dimensionally extremely stable.

To begin we require a flat base, place the first brick and the building of the wall can start. No more need for levels and wires !

The bricks are easily placed thanks to the ingenious mobile handle, saving the back and knees.

Pumice was chosen because pumice can be found everywhere in the world, even in Germany one can find pumice mines.

### What are the advantages of this new type of brick?

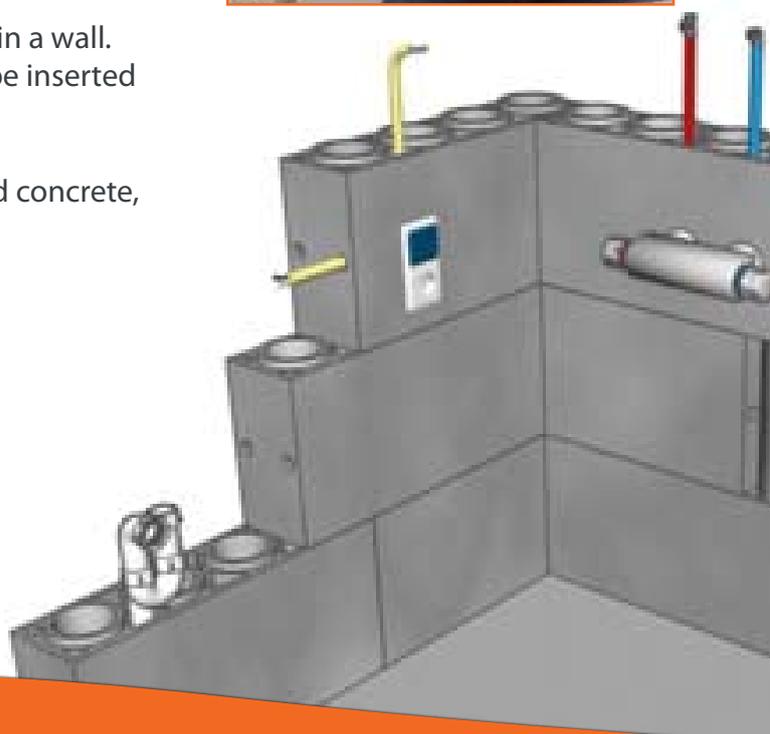
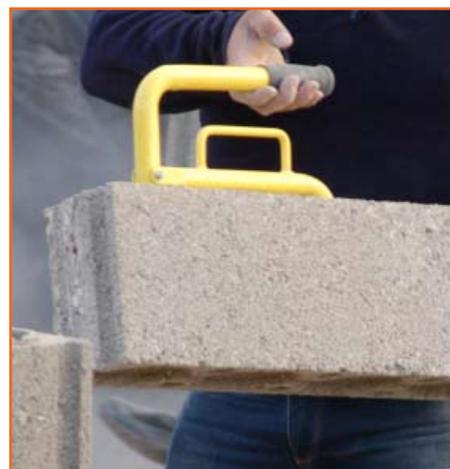
There is a lack of qualified masons in the construction sector. This brick opens new opportunities. Especially in developing countries. As a test a house was built in Bolivia in just 4 days !

### Very interesting for the finishing !

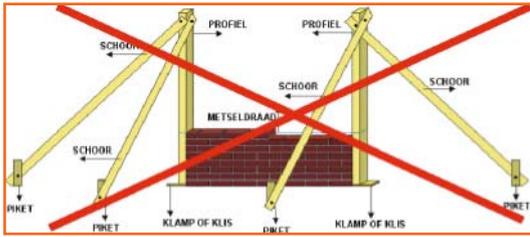
It has never been easier to apply chords, pipes, cables,... in a wall. Thanks to the hollow parts in the brick these can easily be inserted making it unnecessary to grind into the walls.

The bricks can be filled up with concrete, fiber-reinforced concrete, rebars, etc. depending on the function of the wall.

The thermal value of pumice is excellent.



# Save time & money !



Already from the beginning and the preparation the ease of working with Bramstone is clear ! The unique shape of Bramstone makes strut profiles unnecessary. The bricks have a maximal divergence of 0,8 mm per brick making sure that all bricks are placed right on top of each other.

As with any construction the concrete floor is the only preparation necessary to make the surface ready for construction.

Next step is the gluing of a first row YTONG BLOCKS or Aerated blocks so the first layer is leveled. After waterproofing the first rows of Bramstone can be placed.

Bramstone can be piled up separately. Bare in mind that loose walls should be shored for security reasons. (this is needless when walls are placed in angle connection)

The mobile handle developed specifically for Bramstone make the bricks easy to grab and place and prevent complaints about back pain.

The bricks are easily cut to the right size with a grinder.



After building the walls simply fill up the Bramstones. There are 2 ways :

## 1. Manual :

Use a funnel and a bucket for the mortar.

## 2. With a mortar pump :

The holes are filled up using a hose. After filling the holes (ca. 4,2L per brick) the rebars can be placed.

For bearing walls we advise to fill up each hole with mortar and rebars.

For non bearing walls it is sufficient to fill every 2 or 3 holes.

For heavy constructions (for example in earthquake prone regions) it is possible to integrate horizontal rebars.

The notches for the horizontal rebars have already been provided.



## Finishing



Bramstone is developed with maximal comfort in mind. Each brick contains holes and spaces for power-lines, water pipes, gas pipes, etc. With a hole-saw it becomes very easy to place sockets, plumbing, etc. directly. No more need for grinding into the walls. This helps the finishing go faster and cleaner.

The bricks have a maximal divergence of 0,8 mm per brick. This makes a neat finishing of the walls very simple. (for example with spray plastering)

So faster, cheaper and easier than traditional manual plastering. Thanks to the dimensionally stability of the bricks, the walls are always straight. So there is a great limitation of unnecessary stucco.

### Drilling holes is no longer needed !

Thanks to the structure of Bramstone screws can be screwed into the brick directly without the need of drilling holes first. Nails can be hit directly into the brick. This saves again a great deal of time.



**Bramstone walls can be finished in many different ways :**

- Façade bricks
- Plasterboard / Gyproc
- Stucco
- Etc....



# How can we convince you?

Just try it !

If you hesitate to build a complete house straightaway, consider the bricks are also perfect for building garages, swimming pools, etc. We are convinced that you will rapidly see the many advantages of Bramstone.

## The additional benefits at a glance

- Minimal 10 times faster in the complete building process
- Significant cheaper than conventional building methods
- Easier, no educated or skilled masons necessary
- **Even if it rains, the work can continue**
- **Greener, no impact on the environment not even in the production phase**
- More profitable !

## Technical Specifications BramStone

- Size 600L x 150B x 200H mm
- Weight +/- 16 kg
- Thermal insulation value (\*)  $R = 0,5 \text{ W/m}^2 - \lambda = 0,31 \text{ W/m.k}$
- Pressure per brick  $5,06 \text{ Nm/mm}^2$  in wall connection
- Number of bricks per  $\text{m}^2$  8,33 bricks
- Type of brick Modular brick
- Product structure Puimice and cement
- Shock resistance High shock resistance

## Certificates

- ATG Certificate A/G 090808
- CE Certificate DIN EN 771-3 : 2005-05
- NBN Certification NBN EN 12390 -3

(\*) Insulation Value (more info)

### *Lambda or $\lambda$*

The lambda value or  $\lambda$  is the property of a material to conduct heat.

The  $\lambda$  is an indication for how much heat flows through a material with a thickness of 1m and a surface of  $1 \text{ m}^2$  considering a temperature difference of 1 Kelvin.

The lower the  $\lambda$ -value, the better the thermal insulation of the material.

### *R-value - Thermal resistance*

Thermal resistance is a heat property and a measurement of a temperature difference by which an object or material resists a heat flow (heat per time unit or thermal resistance). Thermal resistance is the reciprocal of thermal conductance. The higher the R-value the greater the resistance against the heat flow is and the better the material insulates.

# Standards & Testing

## UNIVERSITY of GHENT : faculty engineering science

Determination of the dimensions according to NBN EN 772-16  
Determination of gross and net density NBN EN 772-13  
Determination of the compressive strength according to NBN EN 772-1  
Determination of the water absorption according to NBN EN 771-1  
Determination of shrinking and swelling according to NBN EN 772-14  
Resistance test on walls according to NBN EN 1052-1



## APPLICATIONS

- Carcass for Houses & Apartments
- Exterior Walls (as facade walls finished with stucco)
- Swimmingpools
- Partition walls in offices
- Garages
- Basement walls
- Barracks
- Temporary fences

## CONSUMPTION DATA

Required per m <sup>2</sup>	8,33 Bramstone
Preparation / hour	0
m <sup>2</sup> / hour	10 m <sup>2</sup> / hour
Required mortar	4,2 L / brick
Mortar ratio	3L sand / 3L pebble / 2L cement / 1,5L water
Bricks per pallet	72
m <sup>2</sup> per pallet	8,64m <sup>2</sup>
Type of pallet	Block pallets

### Do you recognize yourself in this building expectations ?

I want a product that helps me build faster...  
...so I can start faster with the finishing !

I want to build cheaper and it has to be easier !  
I want to be able to continue work no matter what type of weather !  
**I want a product that is completely environmentally friendly !**  
I want a higher margin of profit !

If you recognize yourself in these demands, don't hesitate to contact us !



**Naturally!** You are building with Bramstone !

# BRAMSTONE

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EuCoMat is the exclusive distributor of BramStone.  
Should you have any further questions on  
this or any other matter, please feel free to forward your question  
to EuCoMat directly and we will look into your matter promptly.



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