



INSULATION RENDER, PLASTER, SCREED



BAUWER products are CE marked and conform to the standards EN 998 – 1:2010

BAUWER PRODUCTS

INSULATION RENDER, PLASTER & FLOOR SCREED

Eco-friendly thermal, acoustic and dehumidifying range of products

Bauwer insulation is a cost effective, Easy-to-apply, Sustainable, Thermal Insulation range of products designed for external wall insulation, internal wall insulation, floors and can be applied to most surfaces without the need for specialist skills. Manufactured from sustainable naturally occurring volcanic glass called Perlite, Bauwer is non-toxic, harmless, and safe. In addition to the insulation and sound absorbent properties, Bauwer products are lightweight and vapour permeable (breathable), which prevents condensation as well as delivering a lower consumption per square meter vs traditional plasters, generating considerable cost savings.

SUSTAINABLE, COST EFFECTIVE INSULATION

BAUWER is a dry pre-blended, ready to mix powder. It's based on cement, lime and volcanic glass such as perlite. It is used for thermal insulation, noise absorption as well as fire protection.

BAUWER insulating technology provides you with an insulation system without additional fasteners, joints and preventing thermal bridges around doors, windows and internal wall returns. BAUWER – easy to use and reliable in operation.

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BAUWER high quality product is completely different to sand and cement render because BAUWER provides a number of additional benefits which are not present in normal renders or plasters, i.e. Thermal insulation, vapour permeability, fire resistance, sound absorption, and it is manufactured from sustainable materials. BAUWER is also much lighter, being just 280 kg/m³ (it is almost 7 times lighter than traditional cement render).BAUWER Insulation fillers are natural minerals. The melting point of Perlite is +900°C. Neither material will burn, they do not emit smoke, hazardous or toxic substances or odours. Minerals do not contain heavy metals, chemically inert and biologically stable. They are non-toxic, harmless and safe. This multi-characteristic product is incredibly lightweight and easy to apply in single applications of up to a maximum 40mm (Can be thicker with multiple applications) to a wide variety of surfaces which will help to reduce overall material and labour costs. BAUWER also boasts significant advantages over existing products on the market as a result of its multi-characteristic properties. The BAUWER mortar mix can be applied by hand using standard plastering tools as well as applied by plaster machines , such as PFT G4, PFT G5.

<ul style="list-style-type: none">• Safe• Easy-to-apply• Vapour permeable• Durable	<ul style="list-style-type: none">• Sustainable• Fire Resistant• Cost effective• Sound absorbent
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BAUWER LIGHT (Render, external) and BAUWER STANDARD (Plaster, internal)

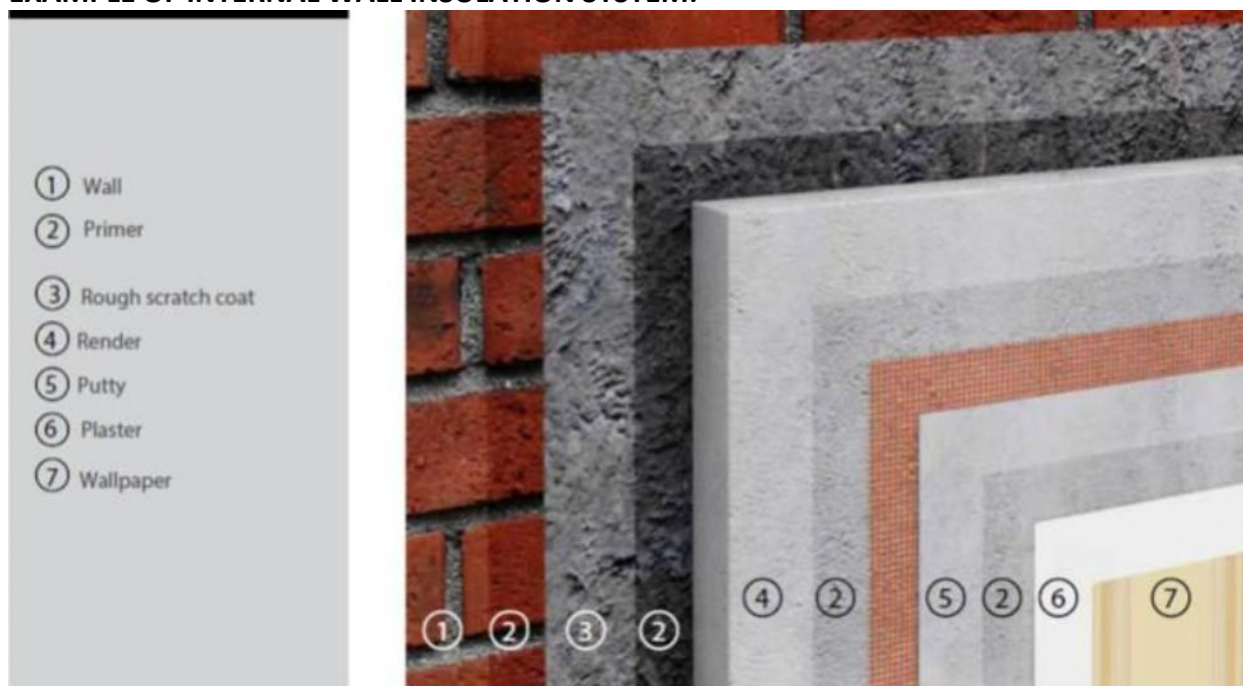
Bauwer is an innovative high performance, ready to mix thermal insulating plaster/render product for both internal & external use. It's based on cement, lime and expanded volcanic glass called Perlite. Bauwer Insulating products are applied in exactly the same way as a traditional plaster or render. It is easier to mix and apply than traditional plasters delivering a higher square meters output and lower total cost as well.

Bauwer high quality products used for:

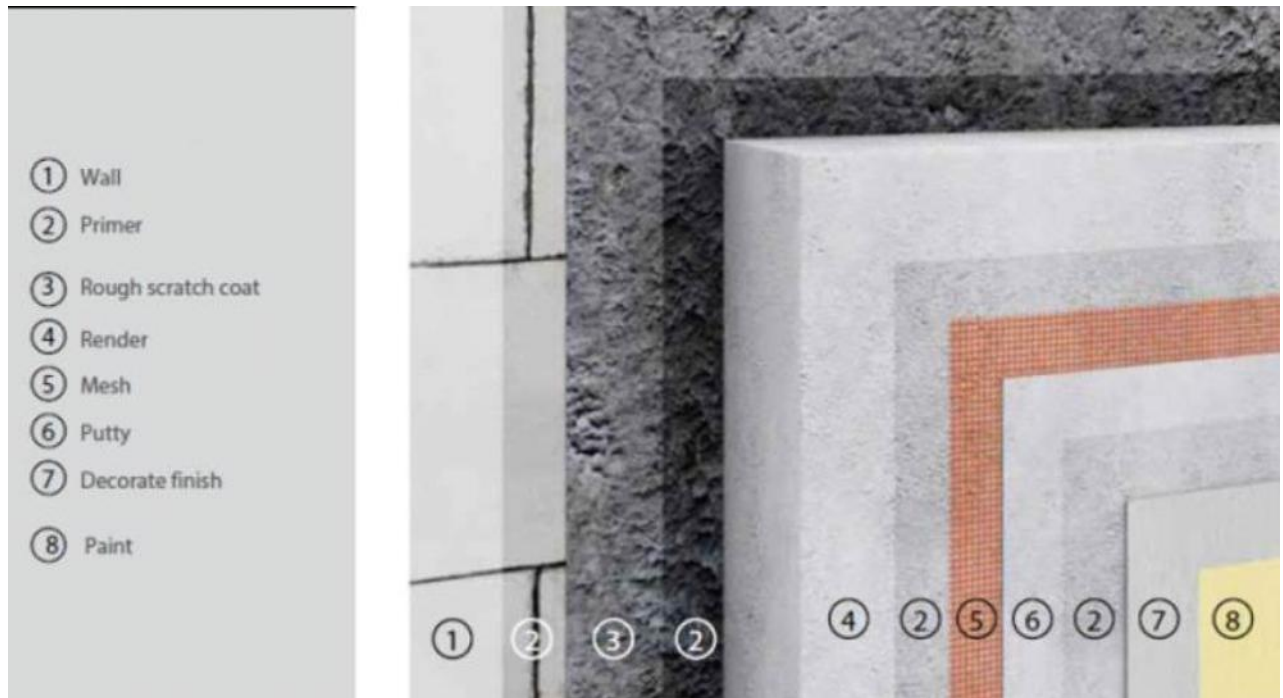
- External and internal thermal insulation of walls
- Thermal insulation of inner and outer slopes
- Formation of a sound absorbing layer on wall constructions
- Formation of acoustic insulation layer between floor joists
- Thermal insulation of floors and floor slabs
- Creation of thermal insulating screeds for under floor heating systems

BAUWER is extremely lightweight and has high adhesive qualities. The innovative Bauwer insulation is applied just like a normal plaster and is therefore more adaptable than rigid petro chemical phenolic boards, whilst still allowing buildings to 'Breathe', preventing moisture control issues. Bauwer Standard and light has good vapour permeability, damp resistant, hydrophobic. This makes the refurbishment of a Victorian property a lot simpler, with a 40mm coat applied it saves on the amount of floor space lost to other insulation materials, which makes Bauwer products the preferred choice for renovation projects. One 7kg bag of BAUWER Light dry pre-blended render can cover equal surface as 40-45kg of dry normal render with the same thickness delivering a significant installation cost savings.

EXAMPLE OF INTERNAL WALL INSULATION SYSTEM:



EXAMPLE OF EXTERNAL WALL INSULATION SYSTEM:



BAUWER FINISH

It is dry pre-blended, ready to mix powder which based on combination of cement binder and volcanic glass such as perlite.

BAUWER insulation Finish is used for:

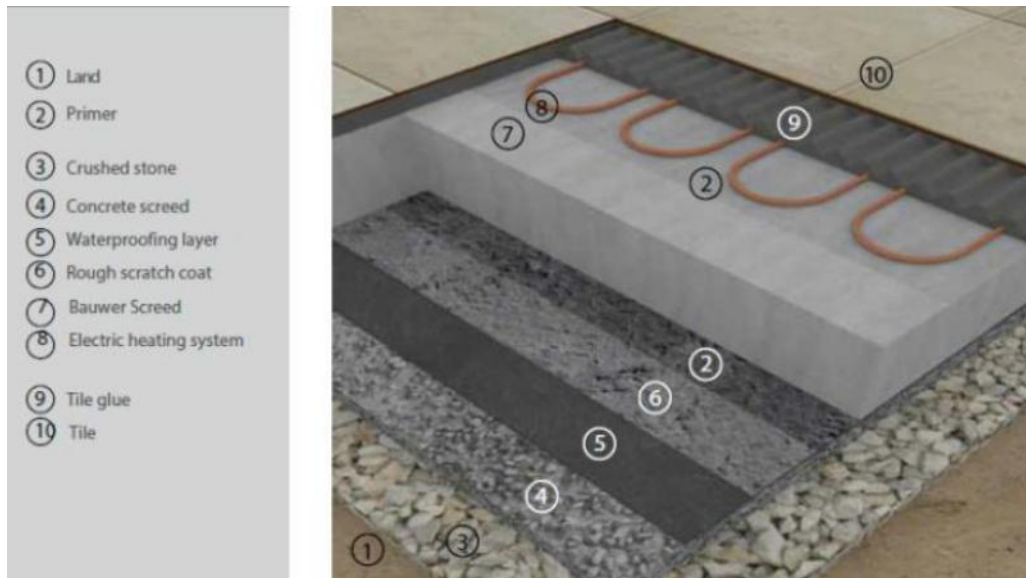
- Levelling uneven walls;
- Filling in cracks in the plaster on the cement substrate;
- Pre-treatment of walls before application of a decorative coating;
- Formation of a reinforcing and levelling layer in the BAUWER thermal insulation system.

BAUWER SCREED

The dry pre-blended insulation screed based on cement, lime and volcanic glass such as perlite. It is used on interior horizontal surfaces for:

- Formation of thermal insulation screeds;
- Enhancing sound insulation properties of the building constructions;
- Formation of the thermal insulation layer in the under floor heating systems;
- Thermal insulation of roofs and slabs.

EXAMPLE OF FLOOR INSULATION SYSTEM



FIRE RESISTANT

BAUWER products are not only a reliable thermal insulation, but also protects your home from fire. BAUWER products are class A rated fire resistant and non-combustible. They are manufactured from natural minerals that can withstand temperature greater than 1000°C. At high temperature and in normal use materials do not change their shapes and do not emit any substances into the environment. With BAUWER products you are safe!

VAPOUR PERMEABLE

Say goodbye to fungus and mould growth. Walls, angles and slopes between the windows will not accumulate moisture because BAUWER has high vapour permeability which allows walls to 'breathe', leaving them dry.

SOUND ABSORBENT

Improve indoor comfort by reducing the noise levels. BAUWER insulating plaster and renders absorbs sound waves. It has a sound absorption coefficient 0.72-0.77 at a thickness of 3 cm. BAUWER SCREED reduces impact noise to the floor by 14-18 Db, at a thickness of 6.5 cm.

BIOLOGICALLY AND CHEMICALLY INERT INSULATION

BAUWER products are free from organic impurities. That is why they will not rot and do not suffer from the effects of rodents. BAUWER products are made from natural inorganic minerals which do not emit any odours and are resistant to chemical and biological effects of environment.

TECHNICAL DATA

Technical Specification	BAUWER LIGHT	BAUWER STANDARD	BAUWER SCREED	BAUWER FINISH
Bag Weight	7Kg	9Kg	12Kg	15kg
Yield of mortar from 1bag	25L	25L	35L	
Appearance and consistency	Dry white powder	Dry white powder	Dry white powder	Dry white powder
Perlite (basic filler) Thermal conductivity	0.034 W/mK	0.034 W/mK	0.034 W/mK	0.034 W/mK
Thermal conductivity	0.068 W/mK	0.081 W/mK	0.091 W/mK	0.204 W/mK
Fire Resistance	Class A	Class A	Class A	Class A
Density of dry material	280 kg/m ³	320 kg/m ³	405 kg/m ³	770 kg/m ³
Bond strength	0.5 N/mm ² .	0.45 N/mm ² .	0.4 N/mm ² .	1.28 N/mm ² .
Compressive strength	2.19 N/mm ² .	2.19 N/mm ² .	4.7 N/mm ² .	37.2 N/mm ² .
Vapour diffusion	4 + 1.5	4.8 + 1.5		11.0 + 1.5
Spread rate	1 bag will cover 1 m ² @ 25mm thickness	1 bag will cover 1 m ² @ 25mm thickness	1 bag will cover 1 m ² @ 35mm thickness	1 bag will cover 8-10 m @ 2.5-3.5mm
Storage temperature	> 5°C. Do not apply in temperatures below 5°C.	> 5°C. Do not apply in temperatures below 5°C.	> 5°C. Do not apply in temperatures below 5°C.	> 5°C. Do not apply in temperatures below 5°C.
Shelf life	18 months, in the correct storage conditions.	18 months, in the correct storage conditions.	18 months, in the correct storage conditions.	18 months, in the correct storage conditions.

BAUWER insulation products are durable.

The effective operation term for BAUWER products is more than 50 years. Ultraviolet radiation and high temperature gradually destroy the insulation system containing organic components. BAUWER products sustain its insulating properties over time as Bauwer products are made from natural inorganic minerals of volcanic origin.