



## 📄 Description

Moulded Earth Block made from unpolluted, undisturbed soil.

## ♻️ Circularity

±10-30% secondary resources  
100% Closed Loop Recycling  
100% Reusable

## 🏭 Manufacturer

Vande Moortel in Oudenaarde, Belgium

## Product

### 📦 Composition

- Clay
- Loess loam from excavated urban sites (mineral waste stream)
- Baked brick waste (mineral waste stream)



Clay



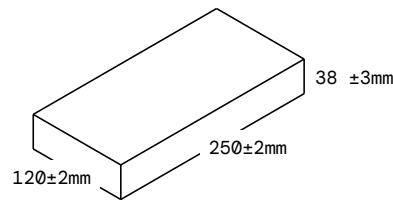
Loess Loam



Baked Brick Waste

☰ Designation

BTM – CL3 – RC 1 – Mv 1,8 – 3,8×12,0×25,0 – XP P 13-901  
 Lehmstein (LS) – nichttragend – DIN 18945 – f 1 – II – 1,8 – 3,8×12,0×25,0






MEB-c

📐 Physical properties of blocks

Density	1740 kg/m <sup>3</sup>	EN772-13
Compressive strength	2,5 N/mm <sup>2</sup>	EN772-01
Compressive strength (halfblocks mortared)	1,5 N/mm <sup>2</sup>	DIN 18945 XPP13-901
Static E-modulus	750 N/mm <sup>2</sup>	DIN 18945
Application Class	II = CL3 (Interior insulated masonry)	DIN 18945 XPP13-901
Water vapor diffusion number $\mu$	5/10	DIN 18945 XPP13-901
Thermal conductivity $\lambda$	0,9 W/m <sup>2</sup> K	DIN 18945 XPP13-901
Fire Reaction	A1 (Non-flammable)	DIN 18945
Global Warming Potential (masonry incl. Léém earth mortar)	8,92 kgCO <sub>2</sub> eq/m <sup>2</sup>	DIN 18945 EN15804:A2
Environmental Impact (LCA) (masonry incl. Léém earth mortar)	1,09 mpt/m <sup>2</sup>	DIN 18945 EN15804:A2
Abrasion Category	Ab3	XPP13-901
Moisture Buffer Value	2,2 - 3	
VOC-emissions	VOC-free	

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 <b>Shelf life</b>	Can be kept indefinitely when dry.
 <b>Packaging</b>	Plastic wrapped pallet 108x108 cm with deposit 700 pc/pallet with 1310 kg/pallet.
 <b>Usage</b>	In a halfblock wall 1 pallet = 8,74 m <sup>2</sup> with 10mm joints or 7,26 m <sup>2</sup> with 3mm joints 1 m <sup>2</sup> = 80,1 pc with 10mm joints or 96,4 pc with 3mm joints

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## Field of application

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

For masonry protected and insulated from the elements. Suitable for damp rooms, do not apply in areas of direct contact with water. See our Léém Earth Block Guide for conception and execution guidelines.  
Not suitable for load-bearing walls.

## Characteristics


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Circular material in destination: infinitely reusable  
CO<sub>2</sub> neutral: no combustion required to produce the building material  
Made of undisturbed, unpolluted soil  
Moisture and heat regulating  
Vapor-open  
Anti-static  
Reduces acoustic transmission and reverberation  
Colorstable  
Non-flammable and fire-resistant

## Execution

 <b>Storage</b>	Store in a dry place, lifted from the ground, on a flat surface, stack maximum 2 pallets, move without jarring.
 <b>Conditions</b>	Upon execution, the temperature of the air and substrate should be minimum 5°C.
 <b>Application</b>	The rules of craftsmanship are carefully followed when masonry the earth blocks. Please check Earth Block Guide by Léém for conception and execution guidelines. Mix minimum 10 pallets when masonry, prewet blocks before laying, use a rubber hammer to put in place, protect fresh masonry walls from rain, leaks and capillary water.
 <b>Drying time</b>	Under normal conditions (20°C and 60% relative humidity), the masonry wall will dry in 28 days.
 <b>Tools</b>	Rubber hammer, Léém Adhesive Mortar Spreader Box/Trowel, standard masonry tools.
 <b>Disposal</b>	Before disposing of Léém Moulded Blocks, remember to recover and reuse them, as they can be dismantled easily. There is a take-back program available, contact us for more information. When used correctly, Léém Moulded Blocks are harmless to humans and the environment. Waste can be disposed of as non-hazardous inert waste.

## Legislation

 <b>Conformity</b>	Complies with Brussels Soil Ordinance and Decree March 29, 2018. Complies with Flemish Soil Decree and its implementation rules (VLAREMA and VLAREBO). Tested on 40+ parameters of pollution: Non-polluted resources: No PCB, asbestos, PFC, lead, flame retardants, phthalates, isocyanates, PFAS, ...
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### Disclaimer

The information in this product description has been compiled with the greatest care. Compensation claims, unless they result from factory mixing errors, are excluded. With each new edition of the product information, the validity of the previous edition expires.