



### Description

Moulded Earth Block, made from unpolluted, undisturbed soil.

### Circularity

±50-70% secondary resources  
100% Closed Loop Recycling  
100% Reusable

### Manufacturer

Vande Moortel in Oudenaarde, Belgium



## Product

### Composition

- Alluvial Scheldt clay
- Loess loam from excavated urban sites (mineral waste stream)
- Baked brick waste (mineral waste stream)



Alluvial Scheldt Clay



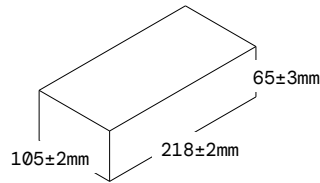
Loess Loam



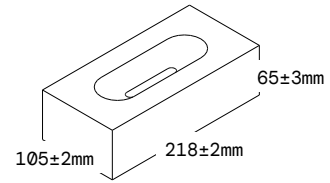
Baked Brick Waste

☰ Designation

BTM – CL3 – RC 2 – Mv 1,8 – 6,5 × 10,5 × 21,8 – XP P 13-901  
 Lehmstein (LS) – tragend – DIN 18945 – f 2 – II – 1,8 – 6,5 × 10,5 × 21,8






Ⓐ MEB\_b\_105



Ⓑ MEB\_b\_105\_fr

📐 Physical properties

Gross/Net Density block Ⓐ MEB_b_105	1740/1740 kg/m³	EN772-13
Gross/Net Density block Ⓑ MEB_b_105_fr	1470/1740 kg/m³	EN772-13
Density Class	1,8	DIN 18945
Compressive strength ( $f_{mean}$ )	4 N/mm²	EN772-01
Compressive strength class	2 = RC 2	DIN 18945 XPP13-901
Static E-modulus	1300 N/mm²	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/m²K	DIN 18945 XPP13-901
Fire Reaction	A1 (Non-flammable)	DIN 18945 XPP13-901
Water adsorption (0,5/1/3/6/24/48h)	26/45/73/170/259/327 g/m²	DIN 18945
Global Warming Potential (masonry incl. Léém earth mortar)	7,77 kgCO <sub>2</sub> eq/m²	DIN 18945 EN15804:A2
Environmental Impact (LCA) (masonry incl. Léém earth mortar)	0,98 mpt/m²	DIN 18945 EN15804:A2
Abrasion Categorie	ab 3	XPP13-901
Moisture Buffer Value	2,2 - 3	
VOC-emissions	VOC-free	EN 16516

 <b>Shelf life</b>	Can be kept indefinitely when dry.
 <b>Packaging</b>	Plastic wrapped pallet 108x108 cm with deposit. <b>MEB_b_105</b> 512 pc/pallet with 1400 kg/pallet <b>MEB_b_105_fr</b> 512 pc/pallet with 1230 kg/pallet
 <b>Usage</b>	<p><b>MEB_b_105 in halfblock wall</b></p> <p>1 pallet = 8,76 m<sup>2</sup> with 10mm joints or 7,69 m<sup>2</sup> with 3mm joints  1 m<sup>2</sup> = 59 pc with 10mm joints and 67 pc with 3mm joints</p> <p><b>MEB_b_105_fr in halfblock wall</b></p> <p>1 pallet = 8,76 m<sup>2</sup> with 10mm joints or 7,69 m<sup>2</sup> with 3mm joints  1 m<sup>2</sup> = 59 pc with 10mm joints and 67 pc with 3mm joints</p>

## Field of application







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

Suitable for load-bearing walls if DIN18940 is followed: contact BC materials.

## Characteristics

Circular material in origin: Valorization of a "waste" stream  
Circular material in destination: infinitely reusable  
CO2 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 mortaring the earth blocks. Please check Earth Block Guide by Léém for conception and execution guidelines. Mix minimum 6 pallets when masonry, prewet blocks before laying, use a rubber hammer to put in place, protect fresh masonry walls from rain 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

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### ☑ Conformity

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.