



Description

Moulded Earth Block made from unpolluted, undisturbed soil.

Circularity

±70-90% 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



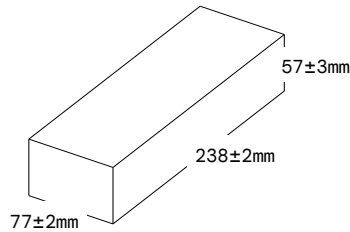
Loess Loam



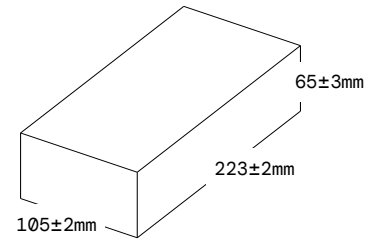
Baked Brick Waste

☰ Designation

BTM – CL3 – RC1 – Mv 1,8 – 5,7/6,5 × 7,7/10,5 × 23,8/22,3– XP P 13-901
 Lehmstein (LS) – nichttragend – DIN 18945 – f1 – II – 1,8 – 5,7/6,5 × 7,7/10,5 × 23,8/22,3






Ⓐ MEB_o_77



Ⓑ MEB_o_105

📐 Physical properties

Density	1640 kg/m ³	EN772-13
Density Class	1,8	DIN 18945
Compressive strength (f _{mean})	2,5 N/mm ²	EN772-01
Compressive strength class	1 = RC1	DIN 18945 XPP13-901
Static E-modulus	900 N/mm ²	DIN 18945
Application Class	II = CL3 (Interior insulated masonry)	DIN 18945 XPP13-901
Water vapor diffusion number μ	5/10	DIN 18945 XPP13-901
Thermal conductivity λ	0,9 W/m ² K	DIN 18945 XPP13-901
Fire Reaction	A1 (Non-flammable)	DIN 18945
Global Warming Potential (masonry incl. Léém earth mortar)	7,28 kgCO ₂ eq/m ²	DIN 18945 EN15804:A2
Environmental Impact (LCA) (masonry incl. Léém earth mortar)	0,92 mpt/m ²	DIN 18945 EN15804:A2
Abrasion Category	ab 3	XPP13-901
Moisture Buffer Value	2,2 - 3	
VOC-emissions	VOC-free	EN 16516

 Shelf life	Can be kept indefinitely when dry.
 Packaging	Plastic wrapped pallet 108x108 cm with deposit. MEB_o_77 : 512 pc/pallet at 870 kg/pallet MEB_o_105 : 480 pc/pallet at 1260 kg/pallet
 Usage	<p>MEB_o_77 in a halfblock wall</p> <p>1 pallet = 8,51 m² with 10mm joints or 7,41 m² with 3mm joints 1 m² = 60 pc with 10mm joints or 69 pc with 3mm joints</p> <p>MEB_o_105 in a halfblock wall</p> <p>1 pallet = 8,39 m² with 10mm joints or 7,38 m² with 3mm joints 1 m² = 57 pc with 10mm joints or 65 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

 Storage	Store in a dry place, lifted from the ground, on a flat surface, stack maximum 2 pallets, move without jarring.
 Conditions	Upon execution, the temperature of the air and substrate should be minimum 5°C.
 Application	The rules of craftsmanship are carefully followed when mortaring the earth blocks. Please check Earth Block Guide by Léem 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.
 Drying time	Under normal conditions (20°C and 60% relative humidity), the masonry wall will dry in 28 days.
 Tools	Rubber hammer, Léem Adhesive Mortar Spreader Box/Trowel, standard masonry tools.
 Disposal	Before disposing of Léem 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, Léem Moulded Blocks are harmless to humans and the environment. Waste can be disposed of as non-hazardous inert waste.

Legislation

☑ 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, ...

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.