

(¹) **Description** Moulded Earth Block made from unpolluted, undisturbed soil.

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

🗠 Manufacturer Vande Moortel in Oudenaarde, Belgium



Moulded Block Brown

MEB b

Product

Secomposition

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



Alluvial Scheldt Clay



Loess Loam

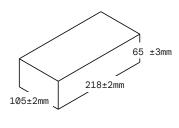


Baked Brick Waste



 \equiv Designation

$\begin{array}{l} {\rm BTM-CL3-RC}5-{\rm Mv}\ 1{\rm ,8-6,5x10,5x21,8-XP}\ P\ 13{\rm -901}\\ {\rm Lehmstein}\ ({\rm LS})-{\rm tragend}-{\rm DIN}\ 18945-{\rm f}\ 3-{\rm II}-{\rm 1,8-6,5x10,5x21,8}\\ \end{array}$



MEB-b

Physical properties of blocks Density 1710 kg/m³ EN772-13 Compressive strength EN772-01 4 N/mm^2 Equilibrity Moisture Content TBC Q4 2023 EN772-10 Initial Water Absorption EN772-11 TBC Q4 2023 EN772-14 Modified Hygrometric Expansion TBC Q4 2023 DIN 18945 Compressive strength (halfblocks mortared) 3 N/mm² XPP13-901 Static E-modulus 750 N/mm² DIN 18945 II = CL3DIN 18945 XPP13-901 **Application Class** (Interior insulated masonry) DIN 18945 XPP13-901 Water vapor diffusion number μ 5/10 DIN 18945 XPP13-901 Thermal conductivity λ 0,9 W/m²K **Fire Reaction** A1 (Non-flammable) DIN 18945 Water Adsorption TBC Q4 2023 DIN 18945 DIN 18945 EN15804:A2 **Global Warming Potential** TBC Q4 2023 DIN 18945 EN15804:A2 Environmental Impact (LCA) TBC Q4 2023 Abrasion Categorie XPP13-901 ab 3 Moisture Buffer Value 2,2 - 3 **VOC-emissions** VOC-free

Physical properties of masonry	Possible mortars:	Leem Mortar (10mm)	Leem Adhesive Mortar (2-3mm)	
	Compressive Strength	TBC Q4 2023	TBC Q4 2023	EN1052-1
	Static E-modulus	TBC Q4 2023	TBC Q4 2023	EN1052-1
	Flexural Strength	TBC Q4 2023	TBC Q4 2023	EN1052-2
	Initial Shear Strength	TBC Q4 2023	TBC Q4 2023	EN1052-3
	Bond Wrench Strength	TBC Q4 2023	TBC Q4 2023	EN1052-5
	Airborne Sound Insulation	TBC Q4 2023	TBC Q4 2023	EN ISO 717-1
	Fire Resistance	TBC Q4 2023	TBC Q4 2023	EN13501
	Specific Heat Capacity	1000 J/kgK	1000 J/kgK	
	Thermal Effusivity	13,86 m²/s	13,86 m²/s	
	Thermal Diffusivity	0,23 Wh ^{0,5} /(m²K)	0,23 Wh ^{0,5} /(m²K)	
	°T Amplitude Attenuation	TBC Q4 2023	TBC Q4 2023	
	Phase Shifting	TBC Q4 2023	TBC Q4 2023	
ပ် Shelf life	Can be kept indefinitely when dry.			
${}^{}$ Packaging	Plastic wrapped pallet 108x108 cm with deposit. 1632 kg/palet.			
പ്പ് Usage	640 pc/palet 1 palet = 10,85 m ² of masonry with 10mm joints or 9,55 m ² with 3mm joints 1 m ² of masonry = 59 pc with 10mm joints and 67 pc with 3mm joints			

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

ஃ 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.	
	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 masoning, prewet blocks before laying, use a rubber hammer to put in place, protect fresh masonry walls from rain and capillary water.	
lime Trying time	Under normal conditions (20°C and 60% relative humidity), the masonry wall will dry in 28 days.	
≫ Tools	Rubber hammer, Léém Adhesive Mortar Spreader Box/Trowel, standard masonry tools.	
Legislation		
⊘ Conformity	Complies with Brussels Soil Ordinance and Decree March 29, 2018. Complies with Flemish Soil amd Materials Decree and (VLAREMA and VLAREBO). Tested on 40+ parameters of pollution: Non-polluted resources.	
Disclaimer		
	The information in this product description has been compiled with the greatest care. However, BC materials cv accepts no responsibility for any direct or indirect damage that might occur when using the information provided. With each new edi- tion of the product information, the validity of the previous edition expires.	