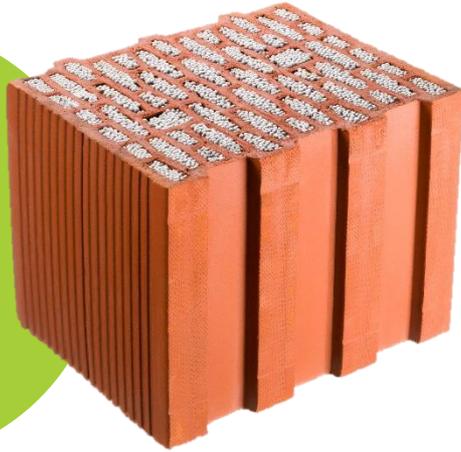


# ORTHOBLOCK® PLUS K300



UNITS /  
PALETTE:  
**48**

**EPD**®  
THE INTERNATIONAL EPD® SYSTEM

**EPD**®  
CLIMATE DECLARATION



Vertically Perforated Clay Brick, for use in protected masonry, Category II, certified according to EN 771-1:2011+A1:2015.

## TECHNICAL DATA

Masonry	Load-Bearing Masonry
Dimensions (LxWxH) (mm)	250x300x240
Weight per Unit (kg/unit)	14,4
Masonry Thickness (mm)	300
Units/m <sup>2</sup>	16
Estimated Masonry Weight (kg/m <sup>2</sup> ) without mortar	230,40
Gross Dry Density (kg/m <sup>3</sup> )	790
Net Dry Density (kg/m <sup>3</sup> )	1.900
Mean Compressive Strength (perpendicular to bed face) (N/mm <sup>2</sup> )	10,5
Thermal Conductivity Coefficient $\lambda_{10,dry,unit}$ (W/mK)	0,0893
Thermal Design Conductivity Coefficient $\lambda_{equ,design,masonry}$ (with 3mm ORTHOBLOCK BOND) (W/mK)	0,1045
Thermal Transmittance $U_{w,design}$ without any plaster (with 3mm ORTHOBLOCK BOND) (W/m <sup>2</sup> K)	0,3290
Sound Reduction Index $R_w$ (dB)	53 **
Water Vapour Permeability $\mu$	5 / 10
Durability against freeze/thaw	F0
Reaction to Fire	B-S1, d0

\* The above coverage of **OPΘOBLOCK BOND** is indicative and it is the result of laboratory and on site measurements. It includes only horizontal joints 3mm thick (vertical joints in non-load bearing masonries built with **OPΘOBLOCK** are not required).

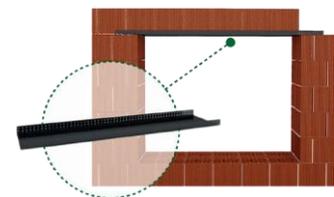
\*\* Calculated Measurement

## SUPPLEMENTARY PRODUCTS



**BONDING MORTAR  
OPΘOBLOCK BOND**  
(paper bag of 25kg)

Coverage:  
2,0-3,0 m<sup>2</sup> masonry per bag \*



**METAL LINTEL**

Unit's Width : 30cm