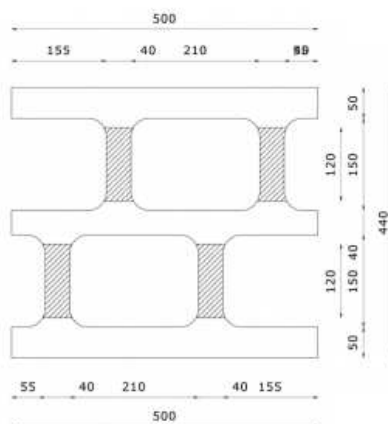


# ISOTEX®

WOOD-CEMENT BLOCKS AND FLOOR SLABS

## Block HB 44/15-2



Isotex® block characteristics - HB 44/15-2	
Approximate permissible capacity $R'_{cK} \cdot 30 \text{ N/mm}^2$ interp. $h = 3,00 \text{ m}$	32+32
Thermal transmittance $U$ of the plastered wall including boundaries $\text{W/m}^2\text{K}$ of wall. 3D Method*	0,56
Thermal transmittance $U$ of the plastered wall including boundaries $\text{W/m}^2\text{K}$ of wall. 2D Method**	-
Periodic thermal transmittance $YIE [\text{W/m}^2\text{K}]$	-
Acoustic insulation (dB) ***	60****
Concrete volume requirement $\text{l/m}^2$	236
Weight of blocks $\text{Kg/m}^2$ (+- 10%)	128
Weight of the wall filled with concrete and not plastered $\text{Kg/m}^2$	694
Block wall thickness (cm)	4,5
Concrete thickness (cm)	15+15
Polystyrene, graphite, cork thickness (cm)	-
Size Block (cm)	50x25x44
Fire rating Class REI (loaded wall)	120

\* The calculation of thermal transmittance has been performed according to the criteria of standards UNI 10355 and UNI EN ISO 6946, using a three-dimensional finite element calculation application validated according to EN 10211/1 and on the basis of thermal conductivity data obtained from experimental evidence (see website [www.blocchiisotex.com](http://www.blocchiisotex.com)).

\*\* Indicative two-dimensional calculation according to standards UNI-TS 13788, UNI 10355 and UNI 10351.

\*\*\* Note: the test certificates can be requested from ISOTEX or consulted on the website [www.blocchiisotex.com](http://www.blocchiisotex.com). The tests were field tests in which the data was elaborated according to the indications provided by technical standards UNI EN ISO 140 and UNI EN ISO 717.

\*\*\*\* Tests performed in the laboratory according to standards UNI EN ISO 140-3:2006 and UNI EN ISO 717-1:2007.

\*\*\*\*\* Tests performed in the laboratory according to standards UNI EN ISO 10140-2:2010 and UNI EN ISO 717-1:2007.

In reference to the type of material purchased, the company will provide the declaration of performance EC (DOP).