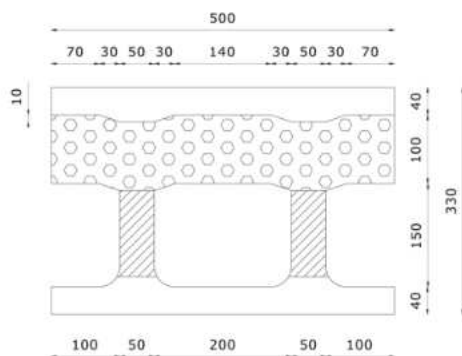


ISOTEX®

WOOD-CEMENT BLOCKS AND FLOOR SLABS

Block HDIII 33/10 Graphite



Isotex® block characteristics - HDIII 33/10 Graphite	
Approximate permissible capacity $R'_{cK} \cdot 30 \text{ N/mm}^2$ interp. $h = 3,00 \text{ m}$	35
Thermal transmittance U of the plastered wall including boundaries $\text{W/m}^2\text{K}$ of wall. 3D Method*	0,27
Thermal transmittance U of the plastered wall including boundaries $\text{W/m}^2\text{K}$ of wall. 2D Method**	0,23
Periodic thermal transmittance $YIE [\text{W/m}^2\text{K}]$	0,014
Acoustic insulation (dB) ***	54***
Concrete volume requirement l/m^2	130
Weight of blocks Kg/m^2 (+- 10%)	83
Weight of the wall filled with concrete and not plastered Kg/m^2	395
Block wall thickness (cm)	4
Concrete thickness (cm)	15
Polystyrene, graphite, cork thickness (cm)	10
Size Block (cm)	50x25x33
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).

**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. 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).