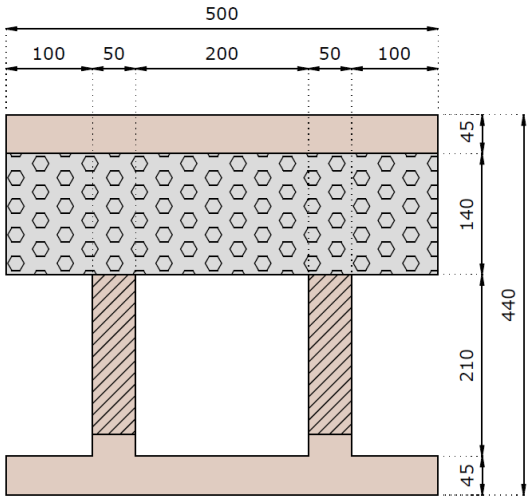
Wood-cement block HDIII 44/14

with BASF's Neopor® BMBcert graphite insert

SISTEMA COSTRUTTIVO ISOTEX® Blocchi e Solai in Legno Cemento

Made of Neopor® BMBcert™ provided by BASF



Block charateristics HDIII 44/14 graphite

Approximate permissible capacity R'cK • 30 N/mm² interp. h = 3,00 m	49
Thermal transmittance U of the plastered wall including boundaries W/m²K of wall. **3D Method***	0,21
Thermal transmittance U of the plastered wall including boundaries W/m²K of wall. **2D Method****	0,18
Periodic thermal transmittance YIE [W/m²K]	0,008
Acoustic insulation (dB) ***	[53****]
Concrete volume requirement l/m²	178
Weight of blocks Kg/m² (+- 10%)	95
Weight of single block (without concrete) Kg	11,9
Weight of the wall filled with concrete and not plastered Kg/m²	522
Concrete thickness (cm)	21
Block wall thickness (cm)	4,5
Size Block (cm)	50x25x44
Fire rating Class REI (loaded wall)	120
Neopor® BMBcert graphite thickness by BASF (cm)	14

* 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 (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).