

ISOTEX BLOCK RANGE

STANDARD BLOCKS				
LEGEND:	HB 20	HB 25/16	HB 30/19	HB 44/15-2
<p>HB blocks without polystyrene; the first digit is the thickness of the block, the second the thickness of the concrete.</p> <p>HD III blocks with insulation; the first digits is the thickness of the block, the second the insulation.</p>				
Indicative permitted capacity (t/m) R'cK ≥ 30 N/mm² interp. H = 3.00 m	•	34	45	32+32
Thermal transmittance U of the plastered wall including boundaries W/m²K of wall. 3D method *	•	0,79	0,68	0,56
Thermal transmittance U of the plastered wall including boundaries W/m²K of wall. 2D method **	•	-	-	-
Thermal periodic transmittance Y _e [W/m²K]	•	-	-	-
Acoustic insulation *** (dB) (R'W) [Dm _{ntw}] RW [D2m _{ntw}]	•	[56****]	[55****]	[60****]
Concrete volume requirement l/m³	110	126	151	236
Weight of the blocks Kg/m² (± 10%)	46	80	85	128
Weight of the wall filled with non-plastered concrete Kg/m²	310	382	445	694
Block wall thickness (cm)	3	4,5	5,5	15+15
Concrete thickness (cm)	14	16	19	4,5
Polystyrene, graphite, cork thickness (cm)	-	-	-	-
REI Class fire resistance (loaded and unplastered wall)	•	120	120	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).

• For this block, the technical characteristics are not given, since it does not meet current applicable regulations.

Concerning to the UK Market, having different regulations (as minimum thickness of concrete 12 cm), it is intended to increase the thickness of the 3 cm more of insulation with BASF-NEOPOR® graphite.

SPECIAL BLOCKS

Block with custom angle (thicknesses of 25-30-33-38-44 cm)

Spandrel flooring block:
X= custom,
Y= custom,
Z= X + Y

Wall pillar block of:
33 cm section concrete 25x38 cm
38 cm section concrete 30x38 cm
44 cm section concrete 33x39 cm

Half block for 44 cm shoulder

Mineralized spruce wood, Portland cement and BASF-NEOPOR® polystyrene



STANDARD BLOCKS				CUSTOM BLOCK
HD III 30/7 with graphite	HD III 33/10 with graphite	HD III 38/14 with graphite	HD III 44/20 with graphite	HD III 38/14 with cork
35	35	35	35	35
0,34	0,27	0,21	0,16	0,24
0,30	0,23	0,18	0,12	0,21
0,019	0,014	0,008	0,004	0,008
[54****]	[54****]	[54****]	[53****]	[54****]
130	130	130	130	130
80	83	88	95	88
392	395	400	407	412
4	4	4,5	4,5	4,5
15	15	15	15	15
7	10	14	20	14
120	120	120	120	120



** 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.

ISOTEX HOLLOW BLOCKS CONFORM TO THE GUIDELINES APPROVED BY THE SUPREME COUNCIL FOR PUBLIC WORKS (JULY 2011)

SPECIAL BLOCKS

PASS block of 30-33-38-44 cm

Shoulder block of 38-44 cm

Universal (UNI) block of 38-44 cm for external corners

Universal (UNI) block of 30-33 cm for external corners and shoulders

Block for internal corners of 30-33-38-44 cm