

ISOTEX BLOCK RANGE

STANDARD BLOCKS				
LEGEND:	HB 20	HB 25/16	HB 30/19	HD III 30/7 con graphite
<p>LEGEND:</p> <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	35
Thermal transmittance U of the plastered wall including boundaries W/m²K of wall. 3D method *	•	0,79	0,68	0,34
Thermal transmittance U of the plastered wall including boundaries W/m²K of wall. 2D method **	•	-	-	0,30
Thermal periodic transmittance TIE [W/m²K]	•	-	-	0,019
Acoustic insulation *** (dB) (R'W) [Dmntw] RW [D2mntw]	•	[56****]	[55****]	[54****]
Concrete volume requirement l/m³	110	126	151	130
Weight of the blocks Kg/m² (± 10%)	46	80	85	80
Weight of the wall filled with non-plastered concrete Kg/m²	310	382	445	392
Block wall thickness (cm)	3	4,5	5,5	4
Concrete thickness (cm)	14	16	19	15
Polystyrene, graphite, cork thickness (cm)	-	-	-	7
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.

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 polystyrene (NEOPOR)

STANDARD BLOCKS	CUSTOM BLOCKS			
HDIII 33/10 with graphite	D III 38/12 with cork	HD III 38/14 with graphite	HD III 44/20 with graphite	HB 44/15-2
35	27	35	35	32+32
0,27	0,28	0,21	0,16	0,56
0,23	0,24	0,18	0,12	-
0,014	0,008	0,008	0,004	-
[54****]	[54****]	[54****]	[53****]	[60****]
130	125	130	130	236
83	96	88	95	128
395	396	400	407	694
4	5	4,5	4,5	15+15
15	16	15	15	4,5
10	12	14	20	-
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. TThe 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

