CE 1504

EVS-EN 771-3:2011

BALTI KIVITEHAS

TECHNICAL SPECIFICATION OF AGGREGATE MASONRY UNITS

*			AGGREGATE MASONRY UNITS			
			hollow block			
Measures (LxWxH)	1	mm	390x240x190	390x190x190	390x140x190	390x90x190
Tolerance class			D1	D1	D1	D1
Weight	2	kg	20	17	13	10
Net dry density	3	kg/m^3	2000	2000	2000	2000
Gross dry density	4	kg/m^3	1020	1040	1100	1380
Masonry weight	14	kg/m^2	270	232,5	182,5	145
Filled part	5	%	51	53	55	69
Compressive strength	6	N/mm^2	18	18	18	18
Compressive strength, Fb	7	N/mm^2	12	9,54	9,9	12,42
Frost resistance		mark	F50 (56 cycles)	F50 (56 cycles)	F50 (56 cycles)	F50 (56 cycles)
Water absorption	8	%	8	8	8	8
Capillary water absorption		$g/m^2xs^{0,5}$	208	208	208	208
Water steam diffusion factor, μ	9		5/ 15	5/ 15	5/ 15	5/ 15
Airborne sound insulation index	10	db	51/ 58	49/ 56	47/ 52	45/ 48
Thermal resistance, R	11	m^2xK/W	0,26	0,24	0,21	0,19
Equivalent coefficient of heat conductivity, λ	12	W/mxK	1,19	1,19	1,19	1,19
Fire resistance	13		Euroclass A1	Euroclass A1	Euroclass A1	Euroclass A1

Notes*

1. Permitted measurement deviations: length, width, height +/- 2 mm
2. Average hollow block weight in the condition of moisture content of 3-5%
3. Minimum net dry density of a hollow block
4. Minimum gross dry density of a hollow block
5. Filled part indicates quantity of concrete in the block
6. Average compressive strength to net cross-section of the surfaces in dry-air conditio
7. Normalised compressive strength of an aggregate masonry unit used in estimations as per EPN-ENV 6.1.1
8. Water absorption shall not exceed 8% of the weight of a hollow block
9. Indicates water steam permeability in case of material with the given net dry density (table method)
10. A reference value for given masonry (without aggregate/fully aggregated
11. A reference value for given masonry (without aggregate) Full aggregatedλ=1.3
12. Equivalent coefficient of heat conductivity is calculated based on the table method
13. Although hollow blocks (aggregate masonry units) belong to non-combustive construction materials (class A1), it is not recommended to use these in places where temperatures may rise over 200°
14. Estimated, does not include weight of possible infill concrete and armouring (based on masonry mix consumption 20 kg/r)