

# CELASTONE

The declared values of the SILEX™ masonry units produced by Celastone Kaubanduse OÜ:

Property	Unit	Note	Hollow blocks				Lintel block
Dimensions ( length/ width/ height)	mm		490/ <b>240</b> /190	490/ <b>190</b> /190	490/ <b>140</b> /190	495/ <b>90</b> /190	495/ <b>190</b> /190
Tolerance class		1	D1	D1	D1	D1	D1
Weight	kg		22,5	19,5	14,5	11,5	23,5
% of cavities of the bed face	%		53	53	47	35	58
% of cavities of the total volume	%		49	48	44	31	41
Shape		2	Group 2	Group 2	Group 2	Group 2	Group 2
Compressive strenght, net	N/mm <sup>2</sup>		18	18	18	18	18
Compressive strenght, gross	N/mm <sup>2</sup>		8,46	8,46	9,54	11,70	7,74
Stability of dimensions	mm/m		0,66	0,66	0,66	0,66	0,66
Adhesive strenght	N/mm <sup>2</sup>	3	0,15/0,30	0,15/0,30	0,15/0,30	0,15/0,30	0,15/0,30
Water absorption	g/(m <sup>2</sup> *s <sup>0,5</sup> )		205	205	205	205	205
Water absorption	g/(m <sup>2</sup> *s)		8,4	8,4	8,4	8,4	8,4
Water absorption	%	4	8	8	8	8	8
Fire sensitivity			A1	A1	A1	A1	A1
Fire resistance	min	5	REI 120/240	REI 120/240	REI 60/180	EI 45/60	REI 120/240
Gross dry density	kg/m <sup>3</sup>		1070	1090	1180	1450	1240
Net dry density	kg/m <sup>3</sup>		2100	2100	2100	2100	2100
Insulation of direct airborne noise	dB	5	50/61	48/57	45/52	43/45	-
Diffusion coefficient of water vapour		6	5/15	5/15	5/15	5/15	5/15
Equivalent thermal conductivity	W/mK ( $\lambda_{10, dry}$ )		1,30	1,30	1,30	1,30	1,30
Frost resistance		7	KK1	KK1	KK1	KK1	KK1

Notes:

1. Allowed tolerances for nominal dimensions: length +3/-5, width +3/-5, height +3/-5 mm.
2. Pursuant to Standard EVS-EN 1996-1-1 Table 3.1.
3. Normal and lightweight mortar pursuant to Standard EN 998-2:2003 Annex C.
4. Water absorption doesn't exceed 8 % of dry weight.
5. Hollow / solid
6. Table value pursuant to Standard EVS-EN 1745 Table A.3.
7. Determined pursuant to Standard EVS 814.