

# TECHNICAL DATA FOR CONCRETE BLOCKS

TYPES (CM)	5		7.5		10		10		15		15		15		20		20		20		20		25		30			
Unit dimensions (mm)	40 x 190 x 390		65 x 190 x 390		90 x 190 x 390		90 x 190 x 390		140 x 190 x 390		140 x 190 x 390		140 x 190 x 390		190 x 190 x 390		190 x 190 x 390		190 x 190 x 390		190 x 190 x 390		240 x 190 x 390		290 x 190 x 390			
% of solid	100		100		74		100		57		80		100		56		62		75		100		53		53			
Min. faceshell thickness (mm)					26				26		40				32		46		59				35		38			
Min. web thickness (mm)					26				26		66				26		28		35				28		32			
Gross cross-sectional area (cm <sup>2</sup> )	156		254		351		351		546		546		546		741		741		741		741		936		1 131			
Net cross-sectional area (cm <sup>2</sup> )	156		254		260		351		311		437		546		415		459		556		741		496		605			
Gross volume (cm <sup>3</sup> )	2 964		4 817		6 669		6 669		10 374		10 374		10 374		14 079		14 079		14 079		14 079		17 784		21 489			
Net volume (cm <sup>3</sup> )	2 964		4 817		4 935		6 669		5 913		8 295		10 374		7 884		8 729		10 559		14 079		9 426		11 389			
Cells volume (cm <sup>3</sup> )					1 734				4 461		2 075				6 195		5 322		3 520				8 358		10 100			
Equivalent thickness (mm)	40		65		67		90		80		112		140		105		118		143		190		127		154			
Type	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light	Heavy	Light
Unit weight (kg)	6.5	5.1	10.5	8.3	10.8	8.5	14.6	11.5	12.9	10.2	18.2	14.3	22.7	17.9	17.3	13.6	19.1	15.1	23.1	14.3	30.8	24.3	20.6	16.3	24.9	19.6		
Wall weight (kg/m <sup>3</sup> )	88	69	142	112	146	115	197	155	175	138	245	193	307	242	233	184	258	203	312	192	416	328	279	219	337	265		
Fire resistance (hr)																												
* As per NBC	0.5	0.5	0.9	1.0	0.9	1.1	1.4	1.9	1.2	1.5	2.0	2.8	2.9	4.0+	1.8	2.6	2.2	3.1	3.0	4.0+	4.0+	4.0+	2.5	3.2	3.5	4.0+		
* U.L.C. Certification															2					4								
Thermal resistance value RSI (m <sup>2</sup> *C/W)																												
* Empty cells					0.17	0.24			0.19	0.26					0.21	0.30							0.24	0.33	0.26	0.36		
* Grouted cells									0.40	0.62					0.51	0.81							0.61	0.98	0.69	1.13		
Sound transmission class (db)	41	39	45	43	45	43	48	46	47	45	50	48	52	50	50	48	51	49	53	50	56	53	51	49	53	51		

All concrete blocks have compressive strength of 15 MPa. Blocks with higher resistance are available on special order.

Water absorption = Heavy: approx. 130 kg/m<sup>3</sup> - Light : approx. 180 kg/m<sup>3</sup>

Noise reduction coefficient (NRC) = normal texture - heavy blocks :0,27 - light blocks :0,45 (no paint)

Concrete density = Heavy approx. 2190 kg/m<sup>3</sup> - Light : approx. 1725 kg/m<sup>3</sup>