

ALL-ROUNDER WIT-VM 250, MASONRY

24.1

Performance data: Masonry, individual fastening (temperature range 50 °C ²⁾ /80 °C ³⁾ For other minimum compressive strengths, edge spacings and axial spacings, refer to the European Technical Approval ETA-13/1040							
Stone type	Stone format [in mm]	Raw density class [kg/dm ³]	Minimum compressive strength [N/mm ²]	F _{perm} [kN] ^{1,4)} (measuring process B, single anchor without edge influence) [H] ... Hammer drilling [D] ... Rotary drilling			
WIT-AS Anchor Bar				M6/50, M8/50		M8, M10, M12	
Internal screw thread sleeve WIT-IG						M6, M8	
Sieve sleeve WIT-SH				without	12/50	without	18/95
Solid brick and solid blocks made of normal concrete (Bisophon V12) DIN 18153, EN 771-3	≥NF (≥240 x 115 x 71)	≥ 2.0	28 (10, 20 see ETA)	0.29 [H]		0.86 [H]	
Solid bricks and solid blocks made of lightweight concrete V (Bisoclassic) DIN 18152-100, EN 771-3	≥NF (≥240 x 115 x 71)	≥ 0.9	4 (2 see ETA)	0.18 [H]		0.21 [H] c _{cr,V} = 100 mm	
						0.29 [H] c _{cr,V} = 250 mm	
Solid bricks and solid blocks made of lightweight concrete V (BisoBims) DIN 18152-100, EN 771-3	≥NF (≥240 x 115 x 71)	≥ 1.0	4 (2 see ETA)	0.18 [H]		0.36 [H] c _{cr,V} = 100 mm	
						0.36 [H] c _{cr,V} = 250 mm	
Hollow block made of lightweight concrete 3K Hbl DIN 18151, EN 771-3	16DF (498 x 240 x 238)	≥ 0.7	4 (2 see ETA)		0.18 [D]		
Hollow block made of lightweight concrete 7K Hbl (Liapor-Super-K) EN 771-3, Z-17.1-501	16DF (495 x 240 x 238)	≥ 0.8	4 (2 see ETA)				0.21 [D] c _{cr,V} = 100 mm
							0.43 [D] c _{cr,V} = 100 mm
Hollow block made of lightweight concrete Gisoton thermal acoustic, Z-15.2-18	498 x 300 x 248	≥ 0.45	4 (2 see ETA)				0.21 [D] c _{cr,V} = 100 mm
Hollow block made of lightweight concrete 1K Hbl, DIN 18151, EN 771-3	12DF (490 x 175 x 238)	≥ 1.2	4 (2 see ETA)				0.21 [D] c _{cr,V} = 100 mm
							0.29 [D] c _{cr,V} = 250 mm
Solid blocks made of lightweight concrete, Vbl 2-0.6-24DF (e.g. Liapor solid wall LAC2), DIN 18152	≥24DF	≥ 0.6	2			0.36 [H]	
Solid blocks made of concrete, Vbn 12-1.4-12DF (e.g. Liapor element wall LC16/18), DIN 18153	≥12DF	≥ 1.4	16 (12 see ETA)			0.54 [H]	
Aerated concrete AAC, DIN 4165, EN 771-4	≥499 x 175 x 249	≥ 0.35	1.6				0.21 [D]
	≥499 x 175 x 249	≥ 0.4	2				0.29 [D]
	≥499 x 175 x 249	≥ 0.6	7				0.54 [D]

¹⁾ The part safety coefficients of the resistances regulated in the approval and a part safety coefficient of the effects of $\gamma_f = 1.4$ have been taken into account.

²⁾ Maximum long-term temperature

³⁾ Maximum short-term temperature

⁴⁾ The brick geometry should be compared with the European Technical Approval ETA-08/1040.