LOADS

termoz CS 8 [3]

Highest permissible loads for a single anchor[1) 4)] for multiple use for non-structural applications.
For the design the complete assessment ETA-14/0372 has to be considered.

					Beton und Mauerwerk		
Type	**Brick raw density** ρ [kg/dm³]	**min. compressive brick strength** f_b [N/mm²]	**min. embedment depth** h_{nom} [mm]	**min. member thickness** h_{min} [mm]	**permissible tensile load** [3] N_{perm} [kN]	**min. spacing** [2] s_{min} [mm]	**min. edge distance** [2] c_{min} [mm]
Concrete							
CS 8	C12/15 - C45/55		35[6)]	100	0,40	100	100
	C50/60				0,50		
Weather shell							
CS 8	C20/25 - C45/55		35[6) 5)]	42	0,40	100	100
	C50/60				0,50		
Solid Clay bricks e.g. acc. to DIN 105-100:2012-01, EN 771-1:2011, Mz							
CS 8	≥ 1,8	20	35[6)]	100	0,50	100	100
Calcium silicate solid bricks, e.g. acc. to DIN V 106:2005-10, EN 771-2:2011, KS							
CS 8	≥ 1,8	20	35[6)]	100	0,50	100	100
		12			0,30		
Solid lightweight concrete block, e.g. acc. to DIN V 18152-100:2005-10 EN 771-3:2011 Vbl							
CS 8	≥ 1,4	8	35[6)]	100	0,17	100	100
Solid concrete block, e.g. acc. to DIN V 18152-100:2005-10 EN 771-3:2011, Vbn							
CS 8	≥ 2,0	20	35[6)]	100	0,40	100	100
		12			0,25		
Vertically perforated clay bricks e.g. acc. to DIN 105-100:2012-01, EN 771-1:2011, HLz							
CS 8	≥ 1,0	12	35[7) 8)]	100	0,20	100	100
	≥ 1,6	48			0,50		
Hollow calcium silicate brick, acc. to DIN V 106:2005-10, EN 771-2:2011, KSL							
CS 8	≥ 1,4	20	35[7) 8)]	100	0,30	100	100
		12			0,17		
Hollow brick light-weight concrete, e.g. acc. to DIN V 18153-100: 2005-10, EN 771-3:2011 Hbl							
CS 8	≥ 0,9	4	35[6) 8)]	100	0,17	100	100
Hollow brick concrete, e.g. acc. to DIN V 18153-100: 2005-10, EN 771-3:2011 Hbn							
CS 8	≥ 1,2	10	35[6) 8)]	100	0,40	100	100
		8			0,30		
		6			0,25		
		4			0,17		
Lightweight Aggregate Concrete acc. to DIN EN 1520, LAC							
CS 8	≥ 0,9	6	35[6)]	100	0,25	100	100
Autoclaved aerated concrete blocks, e.g. AAC acc. to DIN V 4165-100:2005-10, EN 771-4							
CS 8	≥ 0,5	4	35[7)]	100	0,10	100	100
		4	55[7)]		0,20		

1) The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of $\gamma_F = 1,5$ are considered.
2) Minimum possible axial spacings resp. edge distances acc. Assessment.
3) Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. ETAG014. Only tensile wind loads are permitted.
4) The given loads are valid for installation and use of fixations in dry masonry for temperatures in the substrate up to +24 °C (resp. short term up to 40 °C).
5) Embedment depth permitted up to 45 mm.
6) Hammer drilling
7) Rotary drilling
8) In masonry of the building material class C an embedment depth of h_{nom} = 25 mm is possible with the same loads than with 35 mm embedment depth.