Loads

Render fixing FIF-CS

Permissible loads for a single anchor[1)2)] for fixing of external thermal insulation composite systems with rendering.
For the design the complete assessment ETA-15/0006 of 31.05.2018 has to be considered.

					Concrete and masonry[5)]		
Base material	Brick raw density ρ [kg/dm³]	Brick raw density f_b [N/mm²]	Minimum embedment depth[3)] h_{nom} [mm]	Minimum member thickness h_{min} [mm]	Permissible tensile load[1)2)] N_{perm} [kN]	Minimum spacing[4)] s_{min} [mm]	Minimum edge distance[4)] c_{min} [mm]
Concrete	-	C12/15 – C50/60	35	100	0.40	100	100
Solid clay bricks acc. to EN 771-1:2011, Mz	≥ 1.8	20	35	100	0.40	100	100
Vertically perforated clay bricks acc. to EN 771-1:2011, HLz	≥ 1.0	12	25[6)]	100	0.20	100	100
Lightweight aggregate concrete acc. to EN 1520:2011, LAC	≥ 0.9	6	35	100	0.20	100	100
Autoclaved aerated concrete blocks acc. to EN 771-4:2011, AAC	≥ 0.5	4	35[6)]	100	0.10	100	100

1) Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. to ETA data. Only tension wind loads are permitted. The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of $\gamma_L = 1.5$ are considered.
2) The given loads are valid for installation and use of fixations in dry base material for temperatures in the substrate up to +24 °C (resp. short term up to 40 °C).
3) Drilling method hammer drilling. For details on installation data, see ETA.
4) Minimum possible axial spacing and edge distances acc. to ETA.
5) Restrictions concerning the manufacturer and the permissible hole patterns as well as the web thickness see ETA.
6) Rotary drilling.