Loads

Render fixing FIF-CN II

Permissible loads for a single anchor[1)2)3)] for fixing of external thermal insulation composite systems with rendering.
For the design the complete assessment ETA-18/0393 has to be considered.

					Concrete and masonry[4)]		
Type FIF-CN II	**Brick raw density** ρ [kg/dm³]	**Minimum compressive brick strength** f_b [N/mm²]	**Minimum embedment depth** h_{nom} [mm]	**Minimum member thickness** h_{min} [mm]	**Permissible tensile load** N_{perm} [kN]	**Minimum-spacing[5)]** s_{min} [mm]	**Minimum edge distance[5)]** c_{min} [mm]
Concrete acc. to EN 206-1:2000	-	C12/15 – C50/60	35[6)]	100	0.25	100	100
Solid clay bricks Mz according to EN 771-1:2011	≥ 2.0	12	35[6)]	100	0.25	100	100
Vertically perforated clay bricks HLz according to EN 771-1:2011	≥ 1.0	12	35[7)]	100	0.17	100	100
Lightweight aggregate concrete LAC according to EN 1520:2011	≥ 0.8	6	55[6)]	100	0.17	100	100
Autoclaved aerated concrete blocks AAC according to EN 771-4:2011	≥ 0.4	4	55[7)]	100	0.10	100	100

1) Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. to ETA data. Only tensile wind loads are permitted.
2) 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.
3) 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).
4) Restrictions concerning the manufacturer and the permissible hole patterns as well as the web thickness see assessment.
5) Possible minimum spacing resp. edge distance according to assessment.
6) Drill method hammer drilling.
7) Rotary drilling.