Loads

Render fixing FIF-PN[3]

Highest permissible loads for a single anchor[1][4] for fixing of external thermal insulation composite systems with rendering.
For the design the complete assessment ETA-18/0253 has to be considered.

					Concrete and masonry		
Type FIF-PN	**Brick raw density** ρ [kg/dm³]	**Minimum compressive brick strength** f_b [N/mm²]	**Minimum embed-ment depth** h_{nom} [mm]	**Minimum member thickness** h_{min} [mm]	**Permissi-ble tensile load** N_{perm} [kN]	**Minimum-spacing[5]** s_{min} [mm]	**Minimum edge distance[5]** c_{min} [mm]
Concrete according to EN 206-1:2013	-	C12/15 – C50/60	35[6]	100	0.15	100	100
Solid clay bricks Mz according to EN 771-1:2011	≥ 2.0	12	35[6]	100	0.15	100	100
Vertically perforated clay bricks HLz according to EN 771-1:2011	≥ 1.0	12	35[7]	100	0.13	100	100
Lightweight aggregate concrete LAC according to EN 1520:2011	≥ 0.8	6	55[6]	100	0.10	100	100
Autoclaved aerated concrete blocks AAC according to EN 771-4:2011	≥ 0.5	6	55[7]	100	0.10	100	100

[1] The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of γ_L = 1,5 are considered.
[2] Possible minimum spacing resp. edge distance according to assessment.
[3] Plastic anchor for fixing of external thermal insulation composite systems with rendering according to. Only tensile wind loads are permitted.
[4] 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).
[5] Restrictions concerning the manufacturer and the permissible hole patterns as well as the web thickness see assessment.
[6] Drill method hammer drilling.
[7] Rotary drilling.