

Render fixing FIF-PN³⁾

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.

Type FIF-PN	Brick raw density ρ [kg/dm ³]	Minimum compressive brick strength f_b [N/mm ²]	Minimum anchorage depth h_{nom} [mm]	Minimum member thickness h_{min} [mm]	Concrete and masonry		
					Permissible 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 $\gamma_L = 1,5$ 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.