Loads

Render fixing FIF-CS[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-15/0006 has to be considered.

					Concrete and masonry[5]		
Type FIF-CS	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[3] N_{perm} [kN]	Minimum spacing[2] s_{min} [mm]	Minimum edge distance[2] c_{min} [mm]
Concrete acc. to EN 206-1:2000	-	C12/15 – C50/60	35[6]	100	0.40	100	100
Solid clay bricks Mz according to EN 771-1:2011	≥ 1.8	20	35[6]	100	0.40	100	100
Vertically perforated clay bricks HLz according to EN 771-1:2011	≥ 1.0	12	25[7]	100	0.20	100	100
Lightweight aggregate concrete LAC according to EN 1520:2011	≥ 0.9	6	35[6]	100	0.20	100	100
Autoclaved aerated concrete blocks AAC according to EN 771-4:2011	≥ 0.5	4	35[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 ETAG014. 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.