## LOADS

**termoz CS 8** [3]

Highest permissible loads for a single anchor[1) 4)] for multiple use for non-structural applications.
For the design the complete assessment ETA-14/0372 has to be considered.

| | | | | | Beton und Mauerwerk | | |
|---|---|---|---|---|---|---|---|
| **Type** | **Brick raw density** $\rho$ [kg/dm³] | **min. compressive brick strength** $f_b$ [N/mm²] | **min. embedment depth** $h_{nom}$ [mm] | **min. member thickness** $h_{min}$ [mm] | **permissible tensile load** [3] $N_{perm}$ [kN] | **min. spacing** [2] $s_{min}$ [mm] | **min. edge distance** [2] $c_{min}$ [mm] |
| **Concrete** | | | | | | | |
| CS 8 | C12/15 - C45/55 | | 35[6)] | 100 | 0,40 | 100 | 100 |
| | C50/60 | | | | 0,50 | | |
| **Weather shell** | | | | | | | |
| CS 8 | C20/25 - C45/55 | | 35[6) 5)] | 42 | 0,40 | 100 | 100 |
| | C50/60 | | | | 0,50 | | |
| **Solid Clay bricks e.g. acc. to DIN 105-100:2012-01, EN 771-1:2011, Mz** | | | | | | | |
| CS 8 | ≥ 1,8 | 20 | 35[6)] | 100 | 0,50 | 100 | 100 |
| **Calcium silicate solid bricks, e.g. acc. to DIN V 106:2005-10, EN 771-2:2011, KS** | | | | | | | |
| CS 8 | ≥ 1,8 | 20 | 35[6)] | 100 | 0,50 | 100 | 100 |
| | | 12 | | | 0,30 | | |
| **Solid lightweight concrete block, e.g. acc. to DIN V 18152-100:2005-10 EN 771-3:2011 Vbl** | | | | | | | |
| CS 8 | ≥ 1,4 | 8 | 35[6)] | 100 | 0,17 | 100 | 100 |
| **Solid concrete block, e.g. acc. to DIN V 18152-100:2005-10 EN 771-3:2011, Vbn** | | | | | | | |
| CS 8 | ≥ 2,0 | 20 | 35[6)] | 100 | 0,40 | 100 | 100 |
| | | 12 | | | 0,25 | | |
| **Vertically perforated clay bricks e.g. acc. to DIN 105-100:2012-01, EN 771-1:2011, HLz** | | | | | | | |
| CS 8 | ≥ 1,0 | 12 | 35[7) 8)] | 100 | 0,20 | 100 | 100 |
| | ≥ 1,6 | 48 | | | 0,50 | | |
| **Hollow calcium silicate brick, acc. to DIN V 106:2005-10, EN 771-2:2011, KSL** | | | | | | | |
| CS 8 | ≥ 1,4 | 20 | 35[7) 8)] | 100 | 0,30 | 100 | 100 |
| | | 12 | | | 0,17 | | |
| **Hollow brick light-weight concrete, e.g. acc. to DIN V 18153-100: 2005-10, EN 771-3:2011 Hbl** | | | | | | | |
| CS 8 | ≥ 0,9 | 4 | 35[6) 8)] | 100 | 0,17 | 100 | 100 |
| **Hollow brick concrete, e.g. acc. to DIN V 18153-100: 2005-10, EN 771-3:2011 Hbn** | | | | | | | |
| CS 8 | ≥ 1,2 | 10 | 35[6) 8)] | 100 | 0,40 | 100 | 100 |
| | | 8 | | | 0,30 | | |
| | | 6 | | | 0,25 | | |
| | | 4 | | | 0,17 | | |
| **Lightweight Aggregate Concrete acc. to DIN EN 1520, LAC** | | | | | | | |
| CS 8 | ≥ 0,9 | 6 | 35[6)] | 100 | 0,25 | 100 | 100 |
| **Autoclaved aerated concrete blocks, e.g. AAC acc. to DIN V 4165-100:2005-10, EN 771-4** | | | | | | | |
| CS 8 | ≥ 0,5 | 4 | 35[7)] | 100 | 0,10 | 100 | 100 |
| | | 4 | 55[7)] | | 0,20 | | |

1) The partial safety factors for material resistance as regulated in the assessment as well as a partial safety factor for load actions of $\gamma_F = 1,5$ are considered.
2) Minimum possible axial spacings resp. edge distances acc. Assessment.
3) Plastic anchor for fixing of external thermal insulation composite systems with rendering acc. ETAG014. Only tensile wind loads are permitted.
4) The given loads are valid for installation and use of fixations in dry masonry for temperatures in the substrate up to +24 °C (resp. short term up to 40 °C).
5) Embedment depth permitted up to 45 mm.
6) Hammer drilling
7) Rotary drilling
8) In masonry of the building material class C an embedment depth of $h_{nom}$ = 25 mm is possible with the same loads than with 35 mm embedment depth.