

Loads

Expansion plug SX Plus

Recommended loads¹⁾ for a single anchor.
The given loads are valid for wood screws with the specified diameter.

| Type | | SX Plus 4x20 | SX Plus 5x25 | SX Plus 6x30 | SX Plus 6x50 | SX Plus 8x40 | SX Plus 8x65 | SX Plus 10x50 | SX Plus 10x80 | SX Plus 12x60 | SX Plus 14x70 | |
|---|-------------------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Wood screw diameter | [mm] | 3.0 | 4.0 | 5.0 | 5.0 | 6.0 | 6.0 | 8.0 | 8.0 | 10.0 | 12.0 | |
| Min. edge distance in concrete | c_{min} [mm] | 20 | 25 | 35 | 35 | 40 | 50 | 50 | 65 | 65 | 100 | |
| Recommended loads in the respective base material F_{rec} ²⁾ | | | | | | | | | | | | |
| Concrete | ≥ C20/25 | [kN] | 0.20 | 0.35 | 0.65 | 1.30 | 0.75 | 1.50 | 1.40 | 2.90 | 2.40 | 3.50 |
| Solid brick | ≥ Mz 12 | [kN] | 0.15 | 0.27 | 0.35 | 0.50 | 0.60 | 0.80 | 1.00 | 1.40 | 1.25 | 1.30 |
| Solid sand-lime brick | ≥ KS 12 | [kN] | 0.20 | 0.35 | 0.65 | 1.30 | 0.75 | 1.50 | 1.40 | 2.90 | 2.40 | 3.50 |
| Aerated concrete | ≥ AAC 2 | [kN] | 0.03 | 0.03 | 0.07 | 0.12 | 0.10 | 0.15 | 0.18 | 0.28 | 0.22 | 0.35 |
| Aerated concrete | ≥ AAC 4 | [kN] | 0.10 | 0.15 | 0.20 | 0.35 | 0.30 | 0.40 | 0.50 | 0.90 | 0.80 | 1.00 |
| Perforated sand-lime brick | ≥ KSL 12 | [kN] | 0.18 | 0.25 | 0.30 | 0.35 | 0.40 | 0.80 | 0.45 | 1.50 | 0.70 | 1.00 |
| Vertically perforated brick | ≥ HLz 12, Doppio UNI 19 | [kN] | 0.13 | 0.13 | 0.15 | 0.17 | 0.25 | 0.40 | 0.25 | 0.50 | 0.35 | 0.40 |
| Vertically perforated brick | Forato Type F8 | [kN] | 0.08 ³⁾ | 0.08 ³⁾ | 0.10 ³⁾ | - | 0.10 ³⁾ | - | 0.12 ³⁾ | - | - | - |
| Light-weight concrete hollow block | Sepa Parpaing | [kN] | 0.15 | 0.20 | 0.25 | 0.30 ³⁾ | 0.25 | 0.30 ³⁾ | 0.35 | 0.40 ³⁾ | 0.50 ³⁾ | 0.50 ³⁾ |

¹⁾ Required safety factors are considered. Valid for installation and use in dry base material for temperatures in the substrate up to +24 °C (resp. short term up to +40 °C).

²⁾ Valid for tension, shear and combined tension and shear load.

³⁾ Load determination on plastered wall.