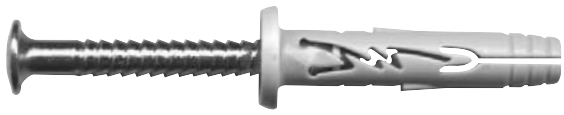
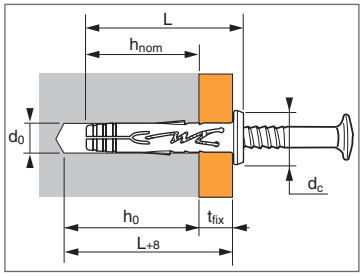
# SPIT HIT M
# SPIT HIT M - A4



SOCOTEC
N° PX 1058

## Hammer-set anchor for light duty fixing for concrete and all materials types



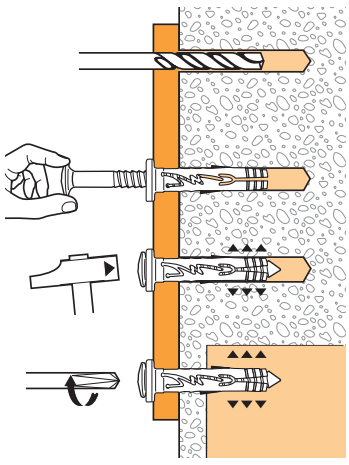

## APPLICATION

- Insulation cladding
- Profiles for thin coat external
- Insulation systems
- Drywall track
- Wood
- Flashing
- Electrical accessories
- Collar (Atlas …)
- …

## MATERIAL

- **Body:** polyamid 6
- **Expansion nail:**
  - FR 15 zinc coated steel (5 µm)
  - A4, stainless steel
- **Screw head type:** PZ2

## INSTALLATION



## Technical data

| SPIT HIT M | Embedment depth (mm) $h_{nom}$ | Maximum thickness of part to be fixed in concrete (mm) $t_{fix}$ (1) | Minimum thickness of base material (mm) $h_{min}$ | Drilling depth in base material (mm) $h_0$ | Drilling depth forward the part to be fixed (mm) L+8 | Drilling diameter (mm) $d_0$ | Cylinder head diameter (mm) dc | Total anchor length (mm) L | Type of nail - - | Code Zinc coated steel nail | Code Stainless steel A4 nail |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5-5/27P | 20 | 5 | 60 | 30 | 35 | 5 | 9 | 27 | PZ2 | 050116 | |
| 5-15/37P | | 15 | | | 45 | | | 37 | | 050117 | |
| 6-5/32P | 25 | 5 | 65 | 35 | 40 | 6 | 11 | 32 | PZ2 | 050118 | 050157 |
| 6-12/39P | | 12 | | | 47 | | | 39 | | 050119 | |
| 6-25/52P | | 25 | | | 60 | | | 52 | | 050121 | 050158 |
| 6-40/67P | | 40 | | | 75 | | | 67 | | 050122 | 050159 |
| 6-12/39V | 25 | 12 | 65 | 35 | 47 | 6 | 10 | 39 | PZ2 | 050129 | |
| 6-25/52V | | 25 | | | 60 | | | 52 | | 050131 | |
| 6-40/67V | | 40 | | | 75 | | | 67 | | 050132 | |
| 6/5-M6 | 30 | - | 65 | 40 | - | 6 | 11 | 32 | M6 | 050141 | |
| 6/5-M7 | | - | | | - | | | 32 | M7 | 050142 | |
| 8-10/42P | 30 | 10 | 65 | 40 | 50 | 8 | 13 | 42 | PZ2 | 050123 | 050161 |
| 8-30/62P | | 30 | | | 70 | | | 62 | | 050124 | 050162 |
| 8-60/92P | | 60 | | | 100 | | | 92 | | 050125 | 050163 |
| 8-80/112P | | 80 | | | 120 | | | 112 | | 050126 | |
| 8-100/132P | | 100 | | | 140 | | | 132 | | 050127 | |
| 8-30/62V | 30 | 30 | 65 | 40 | 70 | 8 | 11,5 | 62 | PZ2 | 050134 | |
| 8-60/92V | | 60 | | | 100 | | | 92 | | 050135 | |
| 8-80/112V | | 80 | | | 120 | | | 112 | | 050136 | |
| 8-100/132V | | 100 | | | 140 | | | 132 | | 050137 | |

**(1)** In masonry, the thickness of part to be fixed could be fluctuate to ± 5 mm from tfix for Ø5 et 6 mm, and to ± 10 mm for Ø8 mm, to ensure a good contact between collar and the part to be fixed.

## Ultimate loads ($N_{Ru,m}$, $V_{Ru,m}$)

### TENSILE IN kN

### SHEAR IN kN

| Base material \ Anchor size | Ø5 | Ø6 | Ø8 | | 5/5 5/15 | 6/5 6/12 6/25 | 6/40 | 8/10 8/30 8/60 | 8/80 8/100 |
|---|---|---|---|---|---|---|---|---|---|
| **Concrete** (C20/25) | | | | | | | | | |
| $N_{Ru,m}$ | 0,9 | 1,5 | 2,1 | $V_{Ru,m}$ | 2,5 | 3,75 | 3,0 | 5,75 | 4,75 |
| **Solid concrete blocks type B120** (fc = 13,5 N/mm²) | | | | | | | | | |
| $N_{Ru,m}$ | 1,4 | 1,55 | 1,65 | $V_{Ru,m}$ | 2,5 | 3,75 | 3,0 | 5,75 | 4,75 |
| **Clay bricks** (fc = 55 N/mm²) | | | | | | | | | |
| $N_{Ru,m}$ | 1,6 | 2,6 | 3,6 | $V_{Ru,m}$ | 2,5 | 3,75 | 3,0 | 5,75 | 4,75 |
| **Hollow concrete blocks type B40 not rendered** (fc = 6,5 N/mm²) | | | | | | | | | |
| $N_{Ru,m}$ | 0,85 | 0,95 | 1,0 | $V_{Ru,m}$ | 2,5 | 3,0 | 3,0 | 3,75 | 3,75 |
| **Hollow concrete blocks type B40 rendered** (fc = 6,5 N/mm²) | | | | | | | | | |
| $N_{Ru,m}$ | 1,25 | 2,25 | 3,0 | $V_{Ru,m}$ | 2,5 | 3,0 | 3,0 | 3,75 | 3,75 |
| **Hollow clay bricks type Eco-30 not rendered** (fc = 4,5 N/mm²) | | | | | | | | | |
| $N_{Ru,m}$ | 0,75 | 1,0 | 1,25 | $V_{Ru,m}$ | 0,75 | 1,0 | 1,0 | 1,25 | 1,25 |
| **Hollow clay bricks type Eco-30 rendered** (fc = 4,5 N/mm² | | | | | | | | | |
| $N_{Ru,m}$ | 1,25 | 1,75 | 2,25 | $V_{Ru,m}$ | 1,25 | 1,5 | 1,75 | 2,25 | 2,25 |
| **Engineering clay bricks not rendered** (fc = 14,5 N/mm²) | | | | | | | | | |
| $N_{Ru,m}$ | 0,75 | 1,0 | 1,25 | $V_{Ru,m}$ | 2,5 | 3,0 | 3,0 | 3,75 | 3,75 |
| **Engineering clay bricks rendered** (fc = 14,5 N/mm²) | | | | | | | | | |
| $N_{Ru,m}$ | 1,25 | 1,75 | 2,25 | $V_{Ru,m}$ | 2,5 | 3,75 | 3,0 | 4,75 | 4,75 |
| **Aerated concrete** (Mvn = 500 kg/m³) | | | | | | | | | |
| $N_{Ru,m}$ | 0,2 | 0,3 | 0,42 | $V_{Ru,m}$ | 0,2 | 0,3 | 0,3 | 0,42 | 0,42 |
| **Plasterboard type BA13** | | | | | | | | | |
| $N_{Ru,m}$ | 0,2 | 0,2 | 0,25 | $V_{Ru,m}$ | 0,2 | 0,2 | 0,2 | 0,25 | 0,25 |
| **Plasterboard type BA10 + polystyren** | | | | | | | | | |
| $N_{Ru,m}$ | 0,25 | 0,25 | 0,3 | $V_{Ru,m}$ | 0,25 | 0,25 | 0,25 | 0,3 | 0,3 |

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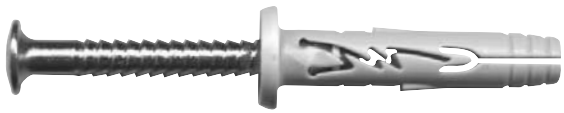

## Design loads ($N_{Rd}$, $V_{Rd}$) and Recommended loads ($N_{rec}$, $V_{rec}$) for one anchor without edge or spacing influence

$N_{Rd} = \frac{N_{Ru,m}^{*}}{3,5}$ ; $N_{Rec} = \frac{N_{Ru,m}^{*}}{5}$ *Derived from test results

$V_{Rec} = \frac{V_{Ru,m}^{*}}{3,5}$ ; $V_{Rec} = \frac{V_{Ru,m}^{*}}{5}$ *Derived from test results

### TENSILE IN kN

### SHEAR IN kN

| Base material / Anchor size | | Ø5 | Ø6 | Ø8 | | 5/5 5/15 | 6/5 6/12 6/25 | 6/40 | 8/10 8/30 8/60 | 8/80 8/100 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Concrete** (C20/25) | | | | | | | | | | |
| | $N_{Rd}$ | 0,25 | 0,42 | 0,59 | $V_{Rd}$ | 0,70 | 1,05 | 0,84 | 1,61 | 1,33 |
| | $N_{Rec}$ | 0,18 | 0,3 | 0,42 | $V_{Rec}$ | 0,5 | 0,75 | 0,6 | 1,15 | 0,95 |
| **Solid concrete blocks type B120** (fc = 13,5 N/mm²) | | | | | | | | | | |
| | $N_{Rd}$ | 0,39 | 0,43 | 0,46 | $V_{Rd}$ | 0,70 | 1,05 | 0,84 | 1,61 | 1,33 |
| | $N_{Rec}$ | 0,28 | 0,31 | 0,33 | $V_{Rec}$ | 0,5 | 0,75 | 0,6 | 1,15 | 0,95 |
| **Clay bricks** (fc = 55 N/mm2) | | | | | | | | | | |
| | $N_{Rd}$ | 0,45 | 0,73 | 1,01 | $V_{Rd}$ | 0,70 | 1,05 | 0,84 | 1,05 | 1,33 |
| | $N_{Rec}$ | 0,32 | 0,52 | 0,72 | $V_{Rec}$ | 0,5 | 0,75 | 0,6 | 0,75 | 0,95 |
| **Hollow concrete blocks type B40 not rendered** (fc = 6,5 N/mm²) | | | | | | | | | | |
| | $N_{Rd}$ | 0,24 | 0,27 | 0,28 | $V_{Rd}$ | 0,70 | 0,84 | 0,84 | 0,63 | 1,05 |
| | $N_{Rec}$ | 0,17 | 0,19 | 0,2 | $V_{Rec}$ | 0,5 | 0,6 | 0,6 | 0,45 | 0,75 |
| **Hollow concrete blocks type B40 rendered** (fc = 6,5 N/mm²) | | | | | | | | | | |
| | $N_{Rd}$ | 0,35 | 0,63 | 0,84 | $V_{Rd}$ | 0,70 | 0,84 | 0,84 | 1,33 | 1,05 |
| | $N_{Rec}$ | 0,25 | 0,45 | 0,6 | $V_{Rec}$ | 0,5 | 0,6 | 0,6 | 0,95 | 0,75 |
| **Hollow clay bricks type Eco-30 not rendered** (fc = 4,5 N/mm²) | | | | | | | | | | |
| | $N_{Rd}$ | 0,21 | 0,28 | 0,35 | $V_{Rd}$ | 0,21 | 0,28 | 0,28 | 0,07 | 0,35 |
| | $N_{Rec}$ | 0,15 | 0,2 | 0,25 | $V_{Rec}$ | 0,15 | 0,2 | 0,2 | 0,05 | 0,25 |
| **Hollow clay bricks type Eco-30 rendered** (fc = 4,5 N/mm²) | | | | | | | | | | |
| | $N_{Rd}$ | 0,35 | 0,49 | 0,63 | $V_{Rd}$ | 0,35 | 0,49 | 0,49 | 0,0 | 0,63 |
| | $N_{Rec}$ | 0,25 | 0,35 | 0,45 | $V_{Rec}$ | 0,25 | 0,35 | 0,35 | 0,0 | 0,45 |
| **Engineering clay bricks not rendered** (fc = 14,5 N/mm²) | | | | | | | | | | |
| | $N_{Rd}$ | 0,21 | 0,28 | 0,35 | $V_{Rd}$ | 0,70 | 0,84 | 0,84 | 0,32 | 1,05 |
| | $N_{Rec}$ | 0,15 | 0,2 | 0,25 | $V_{Rec}$ | 0,5 | 0,6 | 0,6 | 0,23 | 0,75 |
| **Engineering clay bricks rendered** (fc = 14,5 N/mm²) | | | | | | | | | | |
| | $N_{Rd}$ | 0,35 | 0,49 | 0,63 | $V_{Rd}$ | 0,70 | 1,05 | 0,84 | 0,32 | 1,33 |
| | $N_{Rec}$ | 0,25 | 0,35 | 0,45 | $V_{Rec}$ | 0,5 | 0,75 | 0,6 | 0,23 | 0,95 |
| **Aerated concrete** (Mvn = 500 kg/m³) | | | | | | | | | | |
| | $N_{Rd}$ | 0,06 | 0,08 | 0,12 | $V_{Rd}$ | 0,06 | 0,08 | 0,08 | 0,21 | 0,12 |
| | $N_{Rec}$ | 0,04 | 0,06 | 0,08 | $V_{Rec}$ | 0,04 | 0,06 | 0,06 | 0,15 | 0,08 |
| **Plasterboard type BA13** | | | | | | | | | | |
| | $N_{Rd}$ | 0,06 | 0,06 | 0,07 | $V_{Rd}$ | 0,06 | 0,06 | 0,06 | 0,13 | 0,07 |
| | $N_{Rec}$ | 0,04 | 0,04 | 0,05 | $V_{Rec}$ | 0,04 | 0,04 | 0,04 | 0,09 | 0,05 |
| **Plasterboard type BA10 + polystyren** | | | | | | | | | | |
| | $N_{Rd}$ | 0,07 | 0,07 | 0,08 | $V_{Rd}$ | 0,07 | 0,07 | 0,07 | 0,27 | 0,08 |
| | $N_{Rec}$ | 0,05 | 0,05 | 0,06 | $V_{Rec}$ | 0,05 | 0,05 | 0,05 | 0,19 | 0,06 |

## Spacing data

### IN CONCRETE

| SPIT HIT M | Minimum distance between anchors and from edges (mm) | | | |
|---|---|---|---|---|
| | $C_{cr,N}$ mini | $C_{cr,V}$ mini | $S_{cr,1}$ mini without edge influence | $S_{cr,2}$ mini near one edge |
| 5/5 ; 5/15 | 25 | 40 | 25 | 60 |
| 6/5 ; 6/12 ; 6/25 ; 6/40 | 25 | 45 | 25 | 70 |
| 8/10 ; 8/30 ; 8/60 ; 8/80 ; 8/100 | 25 | 60 | 25 | 90 |