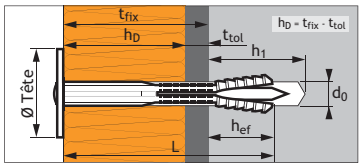
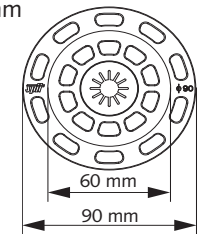
# SPIT ISO

ETA N° 04/0076




Washer Ø90 mm
code: 055705




## APPLICATION

- Fixing all rigid insulation on solid or hollow material

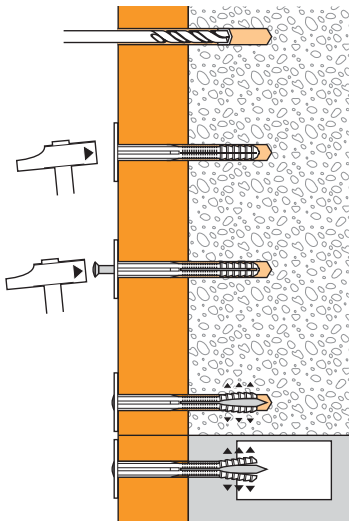
## MATERIAL

- Expansion glass-fibre reinforced polyamid 6*
- **Anchor body:** polypropylene**
- **Temperature range in use:** -30°C to +80°C

* Except ISO 10-30: polypropylene nail

** Caution: the anchor must be protected from UV rays by a screen (rendering, panelling, etc.)

## INSTALLATION



# Expanding insulation anchor

## Technical data

| SPIT ISO | Anchor depth (mm) | Insulation thickness (mm) | Ø drill bit (mm) | Drilling depth (mm) | Total anchor length (mm) | Code | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Ø 50 mm head | Ø 60 mm head | Ø 90 mm head |
| | $h_{ef}$ | $t_{fix}$ | $d_0$ | $h_0$ | L | | | |
| 10/10-30 | | 10-30 | | | 60 | 057600 | - | - |
| 10/40-60 | | 40-60 | | | 90 | 057610 | - | 070330 |
| 10/70-80 | | 70-80 | | | 110 | 057620 | - | 070340 |
| 10/95-105 | | 90-100 | | | 130 | - | 057630 | - |
| 10/115-125 | 30 | 110-120 | 10 | 50 | 150 | - | 057640 | - |
| 10/135-145 | | 135-145 | | | 175 | - | 057650 | - |
| 10/155-165 | | 155-165 | | | 195 | - | 057651 | - |
| 10/175-185 | | 175-185 | | | 215 | - | 057652 | - |
| 10/195-205 | | 195-205 | | | 235 | - | 057653 | - |

## Characteristic resistance ($N_{Rk}$)

### TENSILE IN kN

| Base material \ Anchor size | | 10/10-30 | 10/40-60 → 10/195-205 |
|---|---|---|---|
| Concrete (C15/20) | $N_{Rk}$ | 0,2 | 0,6 |
| Concrete (C20/25 à C50/60) | $N_{Rk}$ | 0,3 | 0,75 |
| Clay bricks (fc = 55 Mpa, bending test: 4,7 N/mm²) | $N_{Rk}$ | 0,3 | 0,75 |
| Hollow concrete blocks not rendered (fc = 12,5 N/mm²) | $N_{Rk}$ | 0,15 | 0,3 |
| Hollow clay bricks type Eco-30 not rendered (fc = 5,9 N/mm²) | $N_{Rk}$ | 0,1 | 0,4 |

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

$$N_{Rd} = \frac{N_{Rk}^{*}}{\gamma_M} \quad ; \quad N_{Rec} = \frac{N_{Rk}^{*}}{\gamma_M . \gamma_F}$$

*Issue from

### TENSILE IN kN

| Base material \ Anchor size | | 10/10-30 | 10/40-60 → 10/195-205 |
|---|---|---|---|
| Concrete (C15/20) | $N_{Rd}$ | 0,1 | 0,3 |
| | $N_{Rec}$ | 0,07 | 0,21 |
| Concrete (C20/25 à C50/60) | $N_{Rd}$ | 0,15 | 0,375 |
| | $N_{Rec}$ | 0,11 | 0,27 |
| Clay bricks (fc = 55 Mpa, bending test: 4,7 N/mm²) | $N_{Rd}$ | 0,15 | 0,375 |
| | $N_{Rec}$ | 0,11 | 0,27 |
| Hollow concrete blocks not rendered (fc = 12,5 N/mm²) | $N_{Rd}$ | 0,075 | 0,15 |
| | $N_{Rec}$ | 0,05 | 0,1 |
| Hollow clay bricks type Eco-30 not rendered (fc = 5,9 N/mm²) | $N_{Rd}$ | 0,05 | 0,2 |
| | $N_{Rec}$ | 0,035 | 0,14 |

$\gamma_M = 2$ ; $\gamma_F = 1,4$

## Characterist ic resistance according to the technical reports TR025 and TR026

### THERMAL TRANSMITTANCE

| Thickness of insulation $h_D$ | Thermal transmittance X |
|---|---|
| (mm) | (W/K) |
| <150 | 0,001 |
| ≥150 | 0,000 |

### PLATE STIFFNESS

| Head diameter | Plate resistance | Plate stiffness |
|---|---|---|
| | (kN) | (kN/mm) |
| 50 | 1,00 | 0,3 |
| 60 | 1,00 | 0,5 |
| 60 + rondelle Ø90 | 1,10 | 0,5 |
| 90 | 1,08 | 0,3 |

## Spacing data

### IN CONCRETE

| SPIT ISO | Minimum distance between anchors and from edges and minimum thickness of concrete member (mm) | | |
|---|---|---|---|
| | $S_{min}$ | $C_{min}$ | $h_{min}$ |
| | 100 | 100 | 100 |