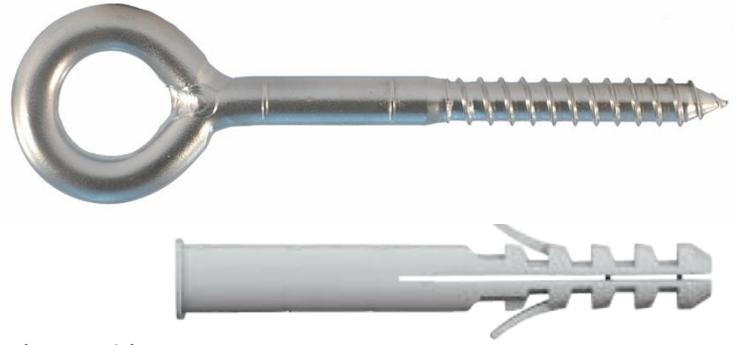


TRUTEK TSRB - SCAFFOLD RESTRAINT BOLT WITH NYLON SLEEVE TNP



Usage:

- Through Fixing
- Rapid Installation
- Hardened Steel with Galvanised Plating

Advantage:

- Quick and easy assembly
- One anchor for concrete and block
- Economical fastening
- Easily removable for use with temporary structures

Anchor material:

The expansion sleeve is made of high quality nylon, the eyebolt is made of carbon steel and covered with a layer of galvanized steel not less than 5µm thick.

Substrate material:

Concrete, natural stone, full ceramic brick, full silicate brick, concrete blocks.

| Method of determining TSRB ring anchors and TNP sleeves | | |
|---|-----------------------|-----------------------|
| Symbol | Anchor diameter d[mm] | Anchor length L. [mm] |
| TSRB12300 | 12 | 300 |
| TNP14100L | 14 | 100 |

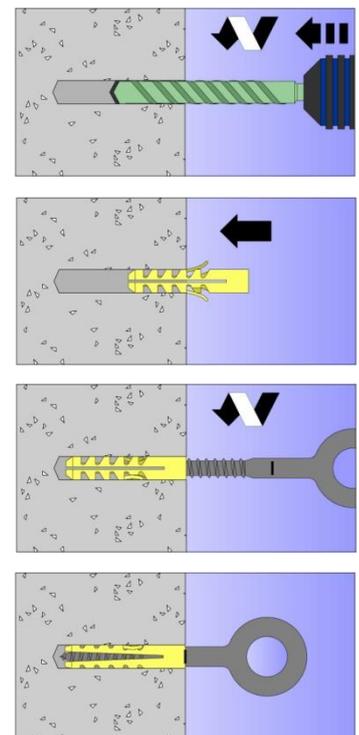
TECHNICAL DATA - RESTRAINT BOLT

| Product Code | Anchor Diameter | Anchor Length | Thread Length | Eye Diameter | Minimum Drill Hole Depth | Embedment Depth | Working Length |
|--------------|-----------------|---------------|-----------------------|----------------------|--------------------------|------------------------|----------------|
| | d mm | L mm | t _{th} mm | d _o mm | h ₁ mm | h _{nom} mm | mm |
| TSRB12090 | 12.0 | 90 | 65 | 23 | 90 | 80 | 15 |
| TSRB12120 | | 120 | | | | | 45 |
| TSRB12160 | | 160 | | | | | 85 |
| TSRB12190 | | 190 | | | | | 115 |
| TSRB12230 | | 230 | | | | | 155 |
| TSRB12300 | | 300 | | | | | 225 |
| TSRB12350 | | 350 | | | | | 275 |
| TSRB12400 | | 400 | | | | | 325 |
| TSRB12450 | | 450 | | | | | 375 |

TECHNICAL DATA - NYLON SLEEVE

| Product Code | Anchor Diameter | Anchor Length | Drill Hole Diameter | Minimum Drill Hole Depth | Embedment Depth |
|--------------|-----------------|---------------|----------------------|--------------------------|------------------------|
| | d mm | L mm | t _o mm | h ₁ mm | h _{nom} mm |
| TNP12075L | 14.0 | 75 | 14 | 90 | 80 |
| TNP12100L | | 100 | | | |
| TNP12135L | | 135 | | | |
| TNP12185L | | 185 | | | |

INSTALLATION



LOAD DATA

Characteristic Resistance

| Anchor Diameter | | Concrete | Hollow Brick |
|-----------------|------|----------|--------------|
| N _{Rk} | [kN] | 9.6 | 1.2 |

Design Resistance

| | | | |
|-----------------|------|-----|-----|
| N _{Rd} | [kN] | 3.8 | 0.5 |
|-----------------|------|-----|-----|

Recommended Resistance

| | | | |
|------------------|------|-----|-----|
| N _{rec} | [kN] | 2.7 | 0.4 |
|------------------|------|-----|-----|

Includes Partial Safety Factor $\gamma = 1.4$ in the absence of national regulations and type of loading Anchor is designed for Tensile Loading only