

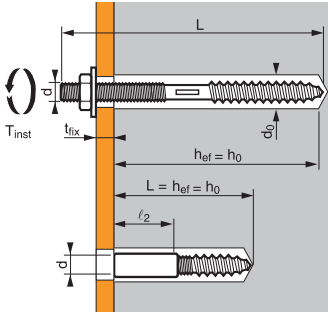


# Epomax With Plastic Mesh Sleeve In Masonry & Hollow Material

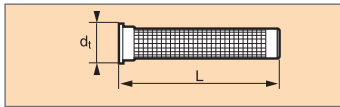


SOCOTEC

N° QX 0070



Stud & Socket



Perforated sleeve

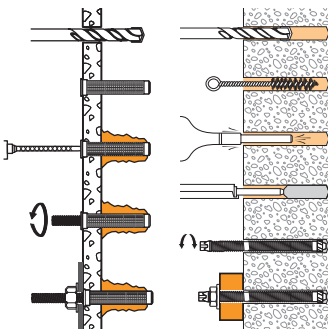
## Applications

- Signs
- Scaffolding
- Electrical switchboards
- Radiators
- Frames
- Air conditioning ducts
- Rail guard returns
- Blinds
- Climbing walls
- Metal scales
- Hand rails
- Poles and ducts
- Demountable partitions
- Kitchen furniture
- Decoration

## Material

- Studs and sockets, class 5,8

## Installation



Hollow material

Solid material

## Vinylester resin

### Technical data

| EPOMAX        |        | Anchor depth<br>(mm) | Max thick of part to be fixed<br>(mm) | Ø thread<br>(mm) | Thread length<br>(mm) | Drill bit            |       | Drilling depth       |       | Ø sleeve<br>(mm)     | Total anchor length<br>(mm) | Max tightening torque<br>(Nm) | Eurocode |
|---------------|--------|----------------------|---------------------------------------|------------------|-----------------------|----------------------|-------|----------------------|-------|----------------------|-----------------------------|-------------------------------|----------|
|               |        |                      |                                       |                  |                       | hollow               | solid | hollow               | solid |                      |                             |                               |          |
|               |        |                      |                                       |                  |                       | (mm)                 |       | (mm)                 |       |                      |                             |                               |          |
|               |        | <b>h<sub>a</sub></b> | <b>t<sub>fix</sub></b>                | <b>d</b>         | <b>l<sub>2</sub></b>  | <b>d<sub>o</sub></b> |       | <b>h<sub>o</sub></b> |       | <b>d<sub>s</sub></b> | <b>L</b>                    | <b>T<sub>inst</sub></b>       |          |
| Stud          | M8     | 75                   | 12                                    | 8                | -                     | 16                   | 10    | 80                   | -     | -                    | 100                         | 5                             | 061650   |
|               | M10    | 75                   | 20                                    | 10               | -                     | 16                   | 12    | 80                   | -     | -                    | 100                         | 8                             | 061660   |
|               | M12    | 75                   | 20                                    | 12               | -                     | 20                   | 14    | 80                   | -     | -                    | 100                         | 8                             | 061670   |
| Socket        | M8     | 58                   | -                                     | 8                | 20                    | 20                   | 14    | 80                   | -     | -                    | 58                          | 8                             | 062350   |
|               | M10    | 58                   | -                                     | 10               | 23                    | 20                   | 14    | 80                   | -     | -                    | 58                          | 8                             | 062360   |
|               | M12    | 75                   | -                                     | 12               | 30                    | 20                   | 20    | 100                  | -     | -                    | 75                          | 8                             | 061760   |
| Plast. sleeve | Ø16x80 | -                    | -                                     | -                | -                     | 16                   | -     | 85                   | -     | 16                   | 80                          | -                             | 061600   |
|               | Ø20x85 | -                    | -                                     | -                | -                     | 20                   | -     | 90                   | -     | 20                   | 85                          | -                             | 061490   |
| EPOMAX resin  |        | - vol. 150 ml        |                                       |                  |                       |                      |       |                      |       |                      |                             | 050883                        |          |
|               |        | - vol. 345 ml        |                                       |                  |                       |                      |       |                      |       |                      |                             | 050884                        |          |
|               |        | - vol. 380 ml        |                                       |                  |                       |                      |       |                      |       |                      |                             | 050885                        |          |

NOTE : • Sleeve Ø 16 x 80 for studs M8 and M10 in hollow material

• Sleeve Ø 20 x 80 and Ø 20 x 85 for studs M12 and sockets M8, M10 and M12 in hollow material

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

$$N_{Rd} = \frac{N_{Ru,m}}{3} ; N_{Rec} = \frac{N_{Ru,m}}{4}$$

$$V_{Rd} = \frac{V_{Ru,m}}{3} ; V_{Rec} = \frac{V_{Ru,m}}{4}$$

\*Derived from test results

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## In masonry

### TENSILE IN kN

### SHEAR IN kN

| Base material   | Anchor size | Stud M8-M10-M12<br>Socket M8-M10-M12 | Stud |     |     | Socket                 |      |      |      |      |      |      |
|---|-------------|--------------------------------------|------|-----|-----|------------------------|------|------|------|------|------|------|
|   |             |                                      | M8   | M10 | M12 | M8                     | M10  | M12  |      |      |      |      |
| <b>Hollow concrete blocks type B40 not rendered (<math>f_c = 6,5 \text{ N/mm}^2</math>)</b> |             |                                      |      |     |     |                        |      |      |      |      |      |      |
|   |             | <b>N<sub>Rd</sub></b>                | 1,2  |     |     | <b>V<sub>Rd</sub></b>  | 2,4  | 2,4  | 2,4  | 2,4  | 2,4  | 2,4  |
|   |             | <b>N<sub>Rec</sub></b>               | 0,9  |     |     | <b>V<sub>Rec</sub></b> | 1,8  | 1,8  | 1,8  | 1,8  | 1,8  | 1,8  |
| <b>Hollow concrete blocks type B40 rendered (<math>f_c = 6,5 \text{ N/mm}^2</math>)</b>     |             |                                      |      |     |     |                        |      |      |      |      |      |      |
|   |             | <b>N<sub>Rd</sub></b>                | 2,1  |     |     | <b>V<sub>Rd</sub></b>  | 2,65 | 2,65 | 2,65 | 2,65 | 2,65 | 2,65 |
|   |             | <b>N<sub>Rec</sub></b>               | 1,6  |     |     | <b>V<sub>Rec</sub></b> | 2,0  | 2,0  | 2,0  | 2,0  | 2,0  | 2,0  |
| <b>Hollow clay bricks type Eco-30 not rendered (<math>f_c = 4,5 \text{ N/mm}^2</math>)</b>  |             |                                      |      |     |     |                        |      |      |      |      |      |      |
|   |             | <b>N<sub>Rd</sub></b>                | 0,8  |     |     | <b>V<sub>Rd</sub></b>  | 1,7  | 1,7  | 1,7  | 1,7  | 1,7  | 1,7  |
|   |             | <b>N<sub>Rec</sub></b>               | 0,6  |     |     | <b>V<sub>Rec</sub></b> | 1,3  | 1,3  | 1,3  | 1,3  | 1,3  | 1,3  |
| <b>Hollow clay bricks type Eco-30 rendered (<math>f_c = 4,5 \text{ N/mm}^2</math>)</b>      |             |                                      |      |     |     |                        |      |      |      |      |      |      |
|   |             | <b>N<sub>Rd</sub></b>                | 1,3  |     |     | <b>V<sub>Rd</sub></b>  | 2,65 | 2,65 | 2,65 | 2,65 | 2,65 | 2,65 |
|   |             | <b>N<sub>Rec</sub></b>               | 1,0  |     |     | <b>V<sub>Rec</sub></b> | 2,0  | 2,0  | 2,0  | 2,0  | 2,0  | 2,0  |
| <b>Clay bricks</b>  |             |                                      |      |     |     |                        |      |      |      |      |      |      |
|   |             | <b>N<sub>Rd</sub></b>                | 1,7  |     |     | <b>V<sub>Rd</sub></b>  | 2,4  | 3,3  | 5,3  | 2,65 | 3,3  | 5,3  |
|   |             | <b>N<sub>Rec</sub></b>               | 1,3  |     |     | <b>V<sub>Rec</sub></b> | 1,8  | 2,5  | 4,0  | 2,0  | 2,5  | 4,0  |
| <b>Solid concrete blocks</b>  |             |                                      |      |     |     |                        |      |      |      |      |      |      |
|   |             | <b>N<sub>Rd</sub></b>                | 6,6  |     |     | <b>V<sub>Rd</sub></b>  | 2,3  | 2,9  | 4,2  | 2,3  | 2,9  | 4,2  |
|   |             | <b>N<sub>Rec</sub></b>               | 5,0  |     |     | <b>V<sub>Rec</sub></b> | 1,75 | 2,2  | 3,15 | 1,75 | 2,2  | 3,15 |