

Area of Application

ESSVE Lightweight concrete plug is intended for fixing in porous materials such as lightweight concrete, also known as Leca, Ytong, Siporex, Blue concrete, etc.

Description

A powerful nylon plug that is ideal for use together with ESSVE Wood screw, to give a strong installation.

The conical collar and triangular profile of the plug counteract rotation during installation. It is made of high grade nylon and withstands temperatures between -30°C and +100°C.



Installation

1. Drill holes with as set out in Technical data.

2. Knock in the Lightweight concrete plug with the help of a hammer in the lightweight concrete. Knock the plug in until it is flush with the surface of the substrate.

3. Install the object using an appropriate screw, see the Technical data.

Specification

| | |
|----------|-------------------|
| Material | Polyamide (nylon) |
|----------|-------------------|

Lightweight concrete plug

Technical data and ESSBOX pack

| Item no. | Dimensions Ø x L mm | Drill Ø mm | Drill depth mm | ESSBOX size | Qty/ pack. | Pack./ large pack. | Quantity / pallet |
|----------|------------------------|---------------|-------------------|----------------|---------------|--------------------------|----------------------|
| 50020 | 10x55 | 10 | 60 | 203 | 50 | 8 | 640 |
| 50022 | 12x60 | 12 | 65 | 204 | 40 | 6 | 480 |
| 50024 | 14x75 | 14 | 80 | 204 | 20 | 6 | 480 |

Bulk packages

| Item no. | Dimensions Ø x L mm | Drill Ø mm | Drill depth mm | Pack./ large pack. |
|----------|------------------------|---------------|-------------------|--------------------------|
| 50220 | 10x55 | 10 | 60 | 3200 |
| 50222 | 12x60 | 12 | 65 | 2200 |
| 50224 | 14x75 | 14 | 80 | 1300 |

Small package

| Item no. | Dimensions Ø x L mm | Drill Ø mm | Drill depth mm | Qty/ pack. |
|----------|------------------------|---------------|-------------------|---------------|
| 511240 | 10x55 | 10 | 60 | 6 |
| 511242 | 12x60 | 12 | 65 | 4 |
| 511244 | 14x75 | 14 | 80 | 4 |

Practical load capacity

The following Practical load capacity values should be used as guideline values. We recommend pull-out testing for large objects for

exact load values. Pull-out testing is a part of ESSVE's Technical Service.

| Designation Dim mm | Screw Ø mm | Lightweight concrete qual. 500 Tensile load kN | Lightweight concrete Tensile load kN |
|-----------------------|---------------|--|---|
| 10x55 | 6.0 | 0.30 | 0.30 |
| 12x70 | 8.0 | 0.44 | 0.36 |
| 14x75 | 10.0 | 0.87 | 0.85 |

Safety factor: Tensile load = 3.3.

During long-term load/permanent load multiplied above the load values with the reduction factor 0.5.

For lightweight concrete: above load values apply for installation with edge distance min. 100 mm and interrelated spacing of min. 100 mm.