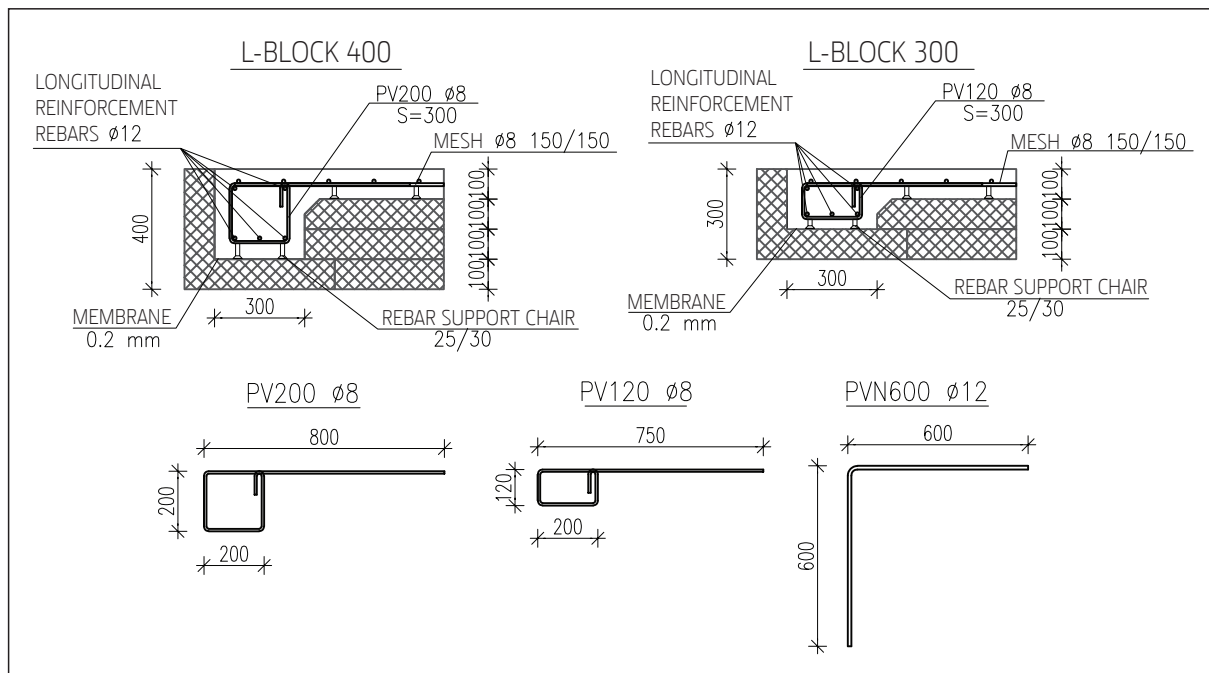


EESTI TRAAAT PV MODULAR STIRRUPS

The Eesti Traat PV (slab foundation) modular stirrup system has been developed to make the reinforcement of slab foundations built with L-blocks faster, more accurate, and more reliable.

It is a set of pre-bent and standardized stirrups developed in cooperation with leading L-block manufacturers and suppliers. The solution is suitable for residential slab foundations.

REINFORCEMENT OF SLAB FOUNDATIONS WITH THE EESTI TRAAAT PV MODULAR SOLUTION



PRODUCT DESCRIPTION

Eesti Traat PV modular stirrups are designed for:

- Reinforcing slab foundation L-blocks
- Strengthening beneath load-bearing walls
- Creating a uniform reinforcement framework

The stirrups are installed at a fixed spacing and combined with longitudinal reinforcement, forming a strong and stable structure.

TECHNICAL SOLUTION

- Material: B500B reinforcing steel
- Standard dimensions according to the selected set
- Suitable for use with reinforcement mesh
- Installation spacing: 300 mm
- Can be adapted according to project requirements

MAIN ADVANTAGES OF THE SOLUTION

- Faster installation
- Pre-bent stirrups significantly reduce on-site manual work.
- Consistent quality
- Standardized geometry ensures correct reinforcement positioning and concrete cover.
- Fewer on-site errors
- A clear system reduces the risk of installation mistakes.
- Optimized material usage
- Precise dimensions and design reduce material waste.
- Suitable for various solutions
- Can be used in different load-bearing and slab foundation configurations.

WHERE TO USE?

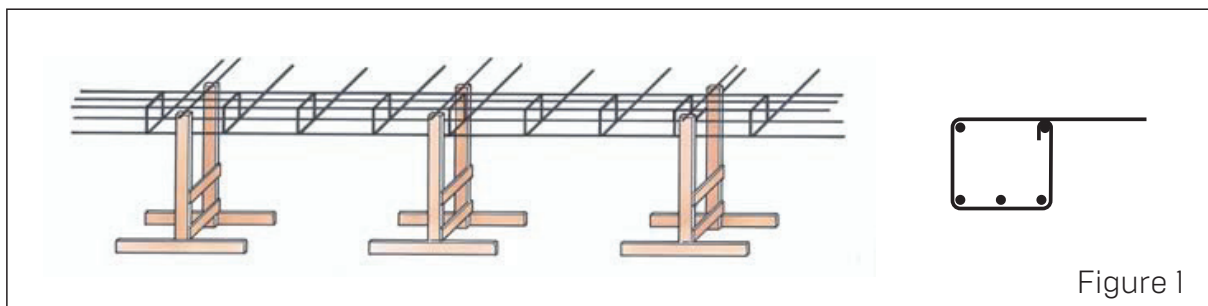
- Private houses
- Row houses / townhouses
- Smaller buildings
- Industrial lightweight structures

Traditional	Modular Stirrups
Time-consuming	Fast
More errors	Fewer errors

INSTALLATION OF REINFORCEMENT ELEMENTS

Tying modular stirrups to longitudinal reinforcement rebars

- The easiest way to start installation is by preparing special supports (according to Figure 1). In most cases, the supports are made of wood.



- Take 5 pcs of Ø12 mm reinforcing straight rebars. Install 4 longitudinal rebars in the corners of the Eesti Traat modular stirrup and one rebar in the center of the lower side of the stirrup. Install the first stirrup 600 mm from the end of the reinforcement (subsequent stirrups are installed at 300 mm spacing). Tie the modular stirrups to the longitudinal reinforcement using tying wire.
- When extending longitudinal reinforcement, the overlap length must be at least 600 mm (during extension, the continuation module is inserted into the next module and secured with tying wire). Install 25/35 mm tower/mushroom support chairs under the tied reinforcement frame at spacing c/c 1200 mm.
- The completed reinforcement frame is placed into the L-block formwork previously covered with construction membrane.

- Install the Eesti Traat reinforcement mesh onto the tower/mushroom supports so that the mesh also covers the reinforcement frame consisting of Eesti Traat modular stirrups. When selecting the support height, ensure that the concrete cover above the mesh/floor heating pipe remains 35 mm.
- Reinforcement mesh overlap must be at least 2 mesh openings, measured from the outer wire. If necessary, cut the mesh to size and continue with the cut section. Secure with tying wire.

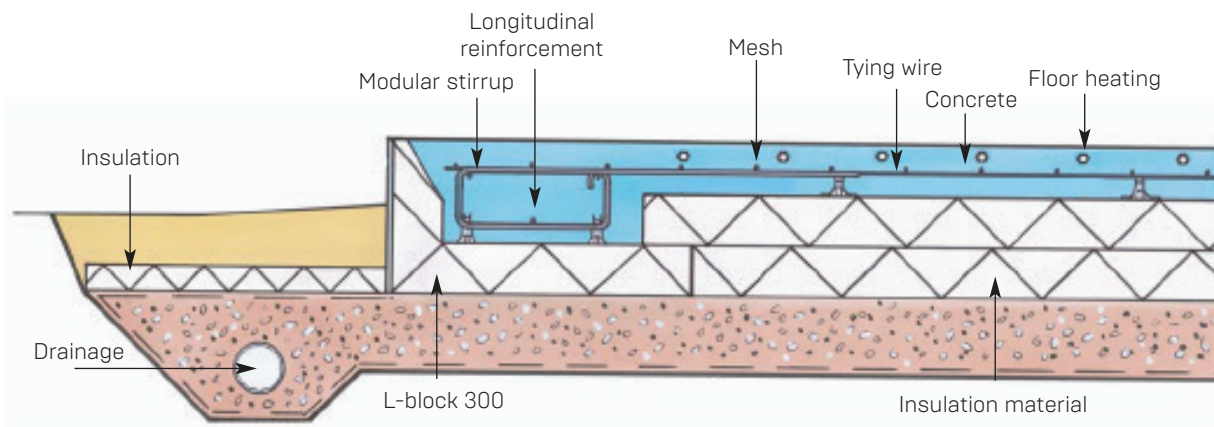
Reinforcement Mesh Selection: Choose the mesh according to the project specifications. If no project is available, it is recommended to consult a structural designer.

A general rule of thumb applies: Residential floors: 6–8 mm mesh (150 × 150 spacing); floors with higher loads: 10–12 mm mesh (150 × 150 spacing).

If necessary, install floor heating pipes/cables onto the mesh.

The selection of Eesti Traat PV stirrups depends on the L-block used:

- For L-block 300, use the Eesti Traat PVI20 modular stirrup system
- For L-block 400, use the Eesti Traat PV200 modular stirrup system
- Install PVN600/600 modular corner stirrups in corners
- 4 pcs in each corner (used for both 300 and 400 L-blocks)



MATERIAL REQUIREMENT CALCULATION

Material quantity required for reinforcing 1 running meter of L-block:

- Stirrups: 3 pcs (PVI20 or PV200)
- Longitudinal rebar: 5.5 m (12 mm)
- 4 corner stirrups for corners (PVN600/600)

WHY CHOOSE EESTI TRAAAT PV MODULAR STIRRUPS?

- No waiting time – products available directly from stock
- Solution developed together with EstPlast and Reideni Plaat specialists
- Fast delivery
- Possibility to adapt the solution on-site
- Lower risk of installation errors