



PHILIPP Connecting Technique

Installation Instruction



07/07 - EN

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The **PHILIPP Connecting Loop and Rail** is used for structural connections of precast units loaded by primarily static shear forces. The loops transfer shear forces where no approval is required.

The **PHILIPP Connecting Systems** are very flexible and form a connection due to the overlapping of the loops. Therefore it is possible to easily realize even complicated connections.

The **PHILIPP Connecting Loops and Rails** can be used without additional proofs. The simple installation ensures practical application.

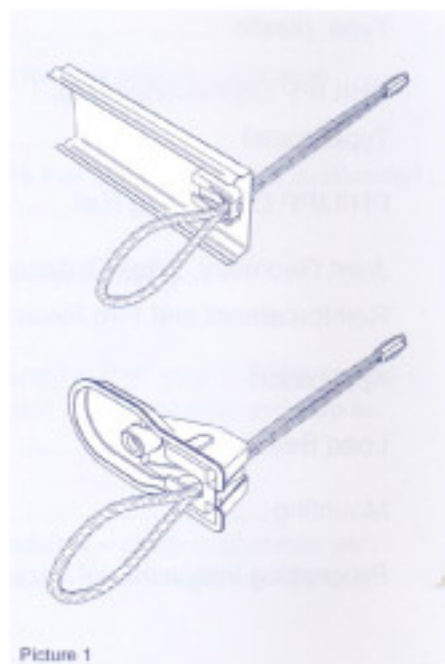
Overview of PHILIPP Connecting Loops

The **PHILIPP Connecting Loop** is a connecting element for the form closed connection of precast units. The flexible loops have the advantage that no "reverse bending" is required and hence the installation of precast units between columns is realizable.

The **PHILIPP Connecting Loop** consists of a plastic body or galvanized steel recess former and is suitable for reinforced concrete and light weight concrete.

Advantages of PHILIPP Connecting Loops

- Flexible connecting element which enables small grouting joints
- No "reverse bending" required
- Simple design, because the reinforcement need not to be changed
- Simple installation due to flexible loops and pre-cut nail holes
- Anchorage also in thin walls possible
- Special version for light weight concrete available
- Weatherproof cover which can be removed easily
- No mix-up due to colour code and direction sign
- Safe grouting with flowable and shrink free mortar

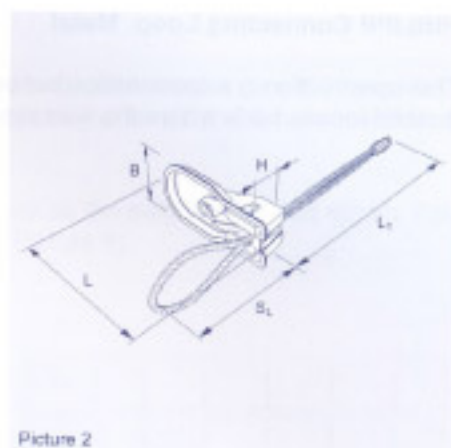


Picture 1

PHILIPP CONNECTING LOOPS TYPE: PLASTIC

PHILIPP Connecting Loop: Plastic

This construction is a combination between a special steel wire rope and a plastic recess former where the wire rope is installed already.



Picture 2

Table 1: Connecting Loop (plastic recess body)

| Art.-No.** | L [mm] | L ₁ [mm] | B [mm] | H [mm] | S _L * [mm] | Rope dia. [mm] | Weight [kg/100 pcs.] |
|------------|-----------|------------------------|-----------|-----------|--------------------------|-------------------|-------------------------|
| 54VS080 | 160 | 210 | 78 | 42 | 80 | 6 | 15.0 |
| 54VS100 | 160 | 210 | 78 | 42 | 100 | 6 | 15.6 |
| 54VS120 | 160 | 210 | 78 | 42 | 120 | 6 | 16.3 |

* While determining the loop sizes please take into account that the overlapped length is larger than 50mm (Page 9, Picture 13).

** For light weight concrete please add the ending "LB" to the article number.

Order suggestion

PHILIPP Connecting Loop

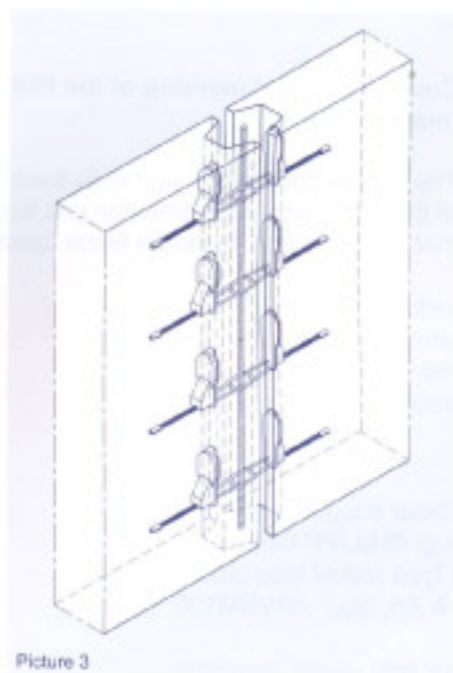
(Type: plastic/ loop size: 100mm)

→ Art. No.: 54VS100

for light weight concrete:

(Type: plastic/ loop size: 100mm)

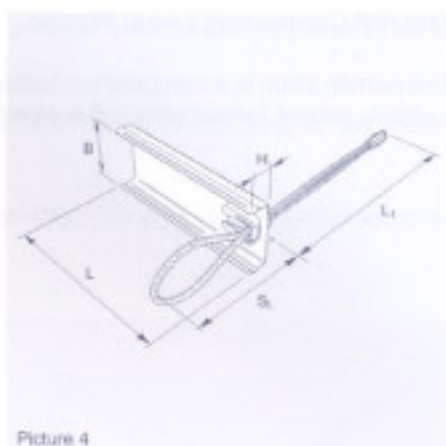
→ Art. No.: 54VS100LB



Picture 3

PHILIPP Connecting Loop: Metal

This construction is a combination between a special steel wire rope and a metal recess body where the wire rope is installed already.



Picture 4

Table 2: Connecting Loop (metallic recess body)

| Art.-No.** | L [mm] | L ₁ [mm] | B [mm] | H [mm] | S ₁ * [mm] | Rope dia. [mm] | Weight [kg/100 pcs.] |
|------------|-----------|------------------------|-----------|-----------|--------------------------|-------------------|-------------------------|
| 54VSM080 | 160 | 190 | 50 | 20 | 80 | 6 | 13.0 |
| 54VSM100 | 160 | 190 | 50 | 20 | 100 | 6 | 14.0 |
| 54VSM120 | 160 | 190 | 50 | 20 | 120 | 6 | 15.0 |
| 54VSM140 | 190 | 190 | 50 | 20 | 140 | 6 | 18.0 |

* While determining the loop sizes please take into account that the overlapped length is larger than 50mm (Page 9, Picture 13). The length S₁ is measured from bottom of the recess.

** For light weight concrete please add the ending "LB" to the article number.

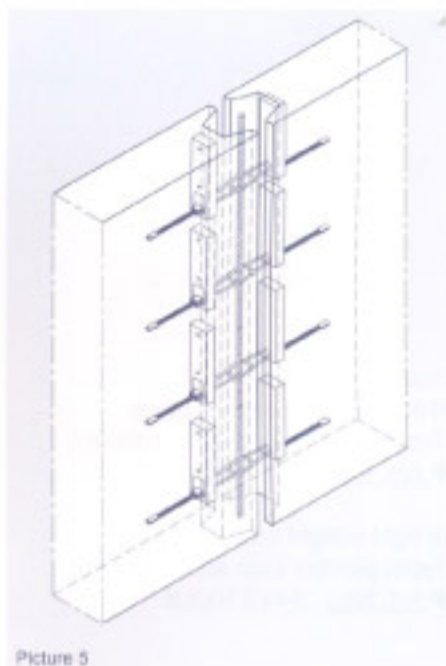
**Colour code and marking of the PHILIPP Connecting Loop
(material metal):**

The recess body has a sign at its back side for the explicit identification of the right installation direction and loop size. Please take into account that at installation the arrow faces upwards.

yellow = SL 80
white = SL 100
red = SL 120
blue = SL 140

Order suggestion
e.g. **PHILIPP Connecting Loop**
(Type metal/ loop size: 100mm)
→ Art. No.: 54VSM100

for light weight concrete:
(Type metal/ loop size: 100mm)
→ Art. No.: 54VSM100LB



Picture 5